

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101519\
 Data File : VY000315.D
 Acq On : 15 Oct 2019 13:17
 Operator : SY/MD
 Sample : K5111-01 2.5PPB LOD
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda

Quant Time: Oct 15 17:50:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 08:10:23 2019
 Response via : Initial Calibration

10/18/2019 12:40:22 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	296809	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	499091	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	442120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	209200	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	176663	56.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.86%	
35) Dibromofluoromethane	7.73	113	154301	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	
50) Toluene-d8	10.19	98	623456	53.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.68%	
62) 4-Bromofluorobenzene	12.48	95	220693	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.90	85	8362	3.160	ug/l 83
3) Chloromethane	2.12	50	10907	3.007	ug/l 94
4) Vinyl Chloride	2.26	62	10554	2.883	ug/l 95
5) Bromomethane	2.66	94	8865	3.268	ug/l 96
6) Chloroethane	2.80	64	7488	3.171	ug/l 95
7) Trichlorofluoromethane	3.13	101	14692	2.934	ug/l 96
8) Diethyl Ether	3.54	74	5643	3.190	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.91	101	10371	3.415	ug/l 91
10) Methyl Iodide	4.11	142	8130	2.051	ug/l 93
11) Tert butyl alcohol	4.97	59	6171	18.834	ug/l # 83
12) 1,1-Dichloroethene	3.88	96	8446	2.817	ug/l # 82
13) Acrolein	3.75	56	5068	13.193	ug/l 94
14) Allyl chloride	4.49	41	13905	2.799	ug/l 96
15) Acrylonitrile	5.18	53	13738	13.876	ug/l 90
16) Acetone	3.96	43	14933	14.728	ug/l 97
17) Carbon Disulfide	4.21	76	26746	2.834	ug/l 97
18) Methyl Acetate	4.49	43	8921	3.541	ug/l # 76
19) Methyl tert-butyl Ether	5.24	73	24655	2.954	ug/l 95
20) Methylene Chloride	4.73	84	18631	4.481	ug/l 95
21) trans-1,2-Dichloroethene	5.22	96	9809	2.852	ug/l # 93
22) Diisopropyl ether	6.14	45	30668	2.919	ug/l 94
23) Vinyl Acetate	6.07	43	89360	13.037	ug/l 98
24) 1,1-Dichloroethane	6.03	63	16711	2.914	ug/l # 95
25) 2-Butanone	7.02	43	21217	14.855	ug/l 99
26) 2,2-Dichloropropane	7.00	77	16734	3.167	ug/l 89
27) cis-1,2-Dichloroethene	7.00	96	10591	2.846	ug/l 91
28) Bromochloromethane	7.35	49	7505	3.048	ug/l # 97
29) Tetrahydrofuran	7.36	42	13005	15.024	ug/l 96
30) Chloroform	7.52	83	17620	3.051	ug/l 100
31) Cyclohexane	7.80	56	23027	3.844	ug/l # 57
32) 1,1,1-Trichloroethane	7.72	97	14406	2.806	ug/l 97
36) 1,1-Dichloropropene	7.93	75	14684	3.005	ug/l 93
37) Ethyl Acetate	7.09	43	10743	3.713	ug/l # 94
38) Carbon Tetrachloride	7.91	117	13261	2.803	ug/l # 83

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	18294	2.861	ug/l	100
40) Benzene	8.17	78	38696	2.740	ug/l	95
41) Methacrylonitrile	7.33	41	3852	2.797	ug/l #	45
42) 1,2-Dichloroethane	8.25	62	11403	2.827	ug/l	96
43) Isopropyl Acetate	8.28	43	15252	2.772	ug/l	94
44) Trichloroethene	8.95	130	10413	2.628	ug/l	80
45) 1,2-Dichloropropane	9.23	63	10293	2.970	ug/l	94
46) Dibromomethane	9.32	93	5396	2.785	ug/l	96
47) Bromodichloromethane	9.50	83	12280	2.690	ug/l	97
48) Methyl methacrylate	9.30	41	7451	3.090	ug/l	91
49) 1,4-Dioxane	9.30	88	1762	60.662	ug/l #	84
51) 4-Methyl-2-Pentanone	10.08	43	41132	14.496	ug/l	98
52) Toluene	10.25	92	25408	2.834	ug/l	100
53) t-1,3-Dichloropropene	10.47	75	13580	2.776	ug/l #	88
54) cis-1,3-Dichloropropene	9.93	75	14818	2.667	ug/l	93
55) 1,1,2-Trichloroethane	10.64	97	7605	2.700	ug/l #	91
56) Ethyl methacrylate	10.52	69	10672	2.658	ug/l	98
57) 1,3-Dichloropropane	10.79	76	13192	2.727	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.79	63	27602	17.237	ug/l	94
59) 2-Hexanone	10.84	43	28033	14.075	ug/l	99
60) Dibromochloromethane	10.99	129	8386	2.686	ug/l	95
61) 1,2-Dibromoethane	11.09	107	7094	2.623	ug/l	90
64) Tetrachloroethene	10.72	164	11976	2.845	ug/l	90
65) Chlorobenzene	11.52	112	25446	2.727	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.59	131	8307	2.534	ug/l	91
67) Ethyl Benzene	11.60	91	49124	2.840	ug/l	97
68) m/p-Xylenes	11.70	106	36176	5.471	ug/l	98
69) o-Xylene	12.03	106	16169	2.563	ug/l	92
70) Styrene	12.05	104	27221	2.559	ug/l	98
71) Bromoform	12.20	173	4714	2.502	ug/l #	94
73) Isopropylbenzene	12.33	105	45091	2.764	ug/l	99
74) N-amyl acetate	12.14	43	12288	3.068	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.58	83	8524	2.783	ug/l	97
76) 1,2,3-Trichloropropane	12.63	75	6821m	2.652	ug/l	
77) Bromobenzene	12.61	156	10945	3.015	ug/l	94
78) n-propylbenzene	12.67	91	54685	2.792	ug/l	98
79) 2-Chlorotoluene	12.75	91	31924	2.952	ug/l	97
80) 1,3,5-Trimethylbenzene	12.81	105	38692	2.829	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	3025m	2.573	ug/l	
82) 4-Chlorotoluene	12.85	91	32655	2.856	ug/l	99
83) tert-Butylbenzene	13.08	119	32514	2.807	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	37635	2.788	ug/l	98
85) sec-Butylbenzene	13.25	105	46426	2.771	ug/l	96
86) p-Isopropyltoluene	13.37	119	42481	2.908	ug/l	97
87) 1,3-Dichlorobenzene	13.37	146	21729	3.038	ug/l	96
88) 1,4-Dichlorobenzene	13.45	146	21572	3.018	ug/l	93
89) n-Butylbenzene	13.70	91	41577	2.880	ug/l	98
90) Hexachloroethane	13.95	117	8042	2.973	ug/l	94
91) 1,2-Dichlorobenzene	13.74	146	19503	3.013	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.36	75	2061	3.548	ug/l	71

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APPROVED

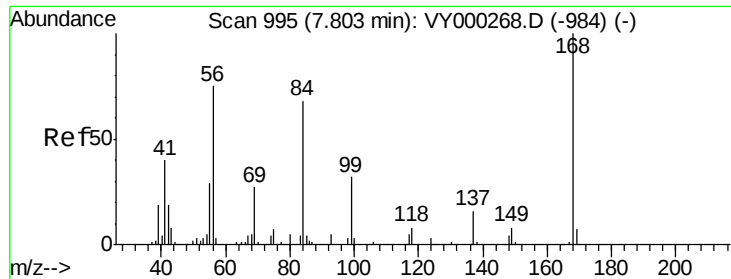
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	14213	3.154	ug/l	97
94) Hexachlorobutadiene	15.11	225	7393	3.032	ug/l	99
95) Naphthalene	15.23	128	37355	3.715	ug/l	97
96) 1,2,3-Trichlorobenzene	15.42	180	13057	3.215	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:168 Resp: 296809

Ion Ratio Lower Upper

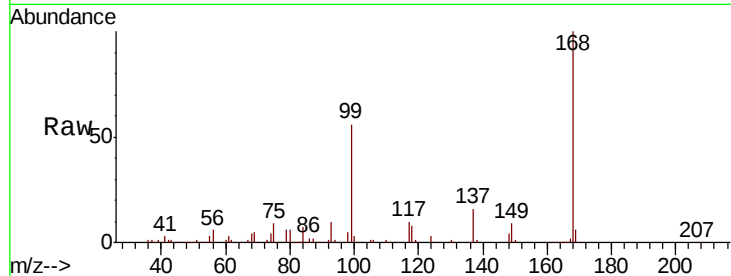
168 100

99 56.3 46.6 69.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VY000315.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000315.D (-946) (-)

7.80

150000

100000

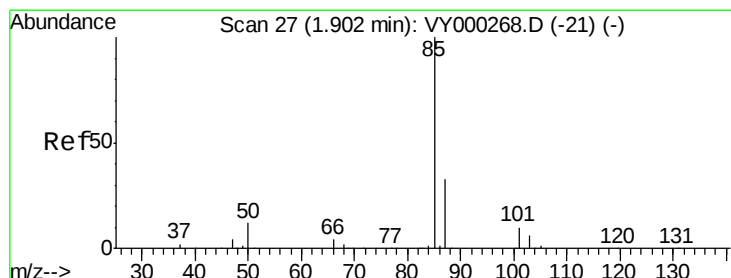
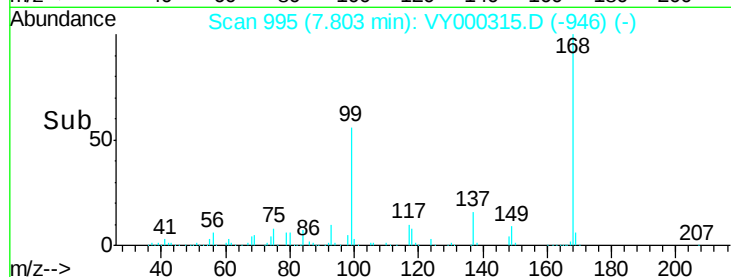
50000

0

7.70 7.80 7.90

Time-->

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#2

Dichlorodifluoromethane

Concen: 3.160 ug/l

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000315.D

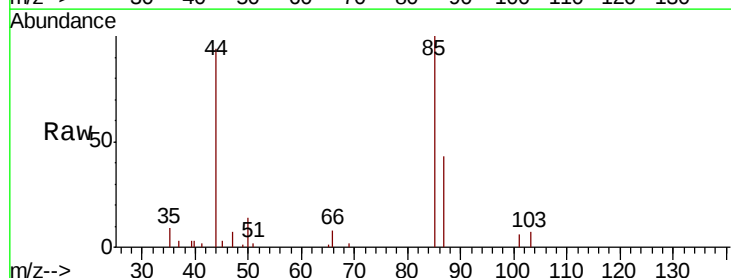
Acq: 15 Oct 2019 13:17

Tgt Ion: 85 Resp: 8362

Ion Ratio Lower Upper

85 100

87 42.6 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VY000315.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY000315.D (-1) (-)

1.90

5000

4000

3000

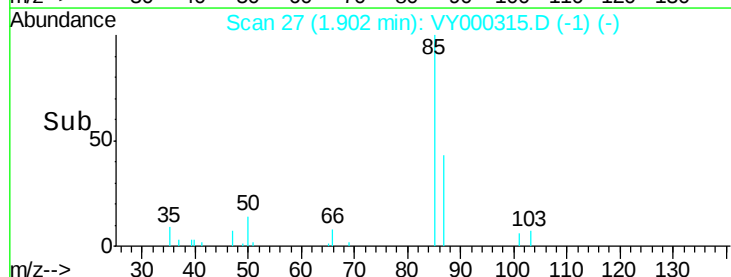
2000

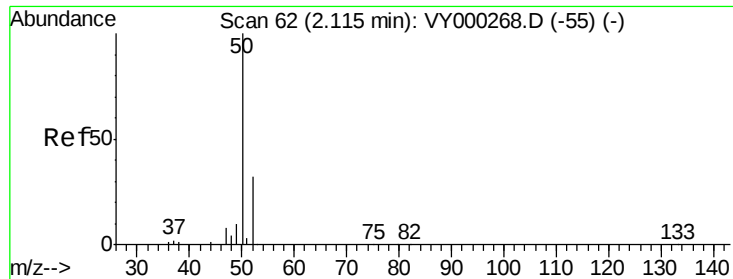
1000

0

1.85 1.90 1.95 2.00

Time-->





#3

Chloromethane

Concen: 3.007 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 50 Resp: 10907

Ion Ratio Lower Upper

50 100

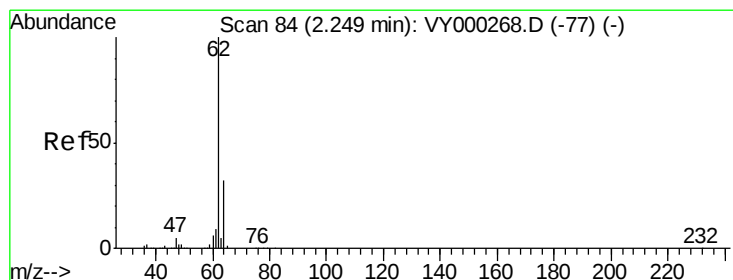
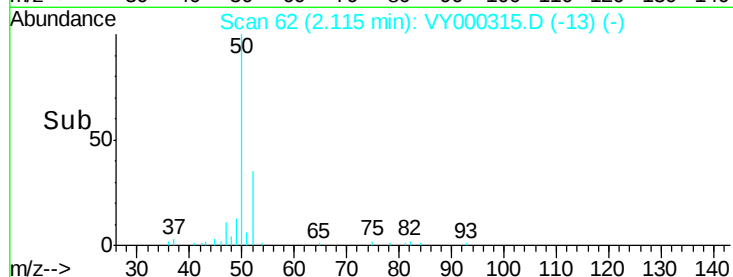
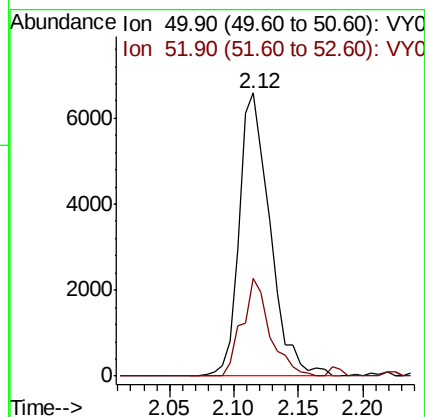
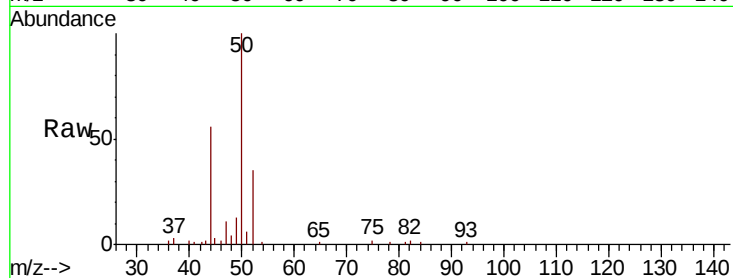
52 34.7 25.3 37.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.883 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VY000315.D

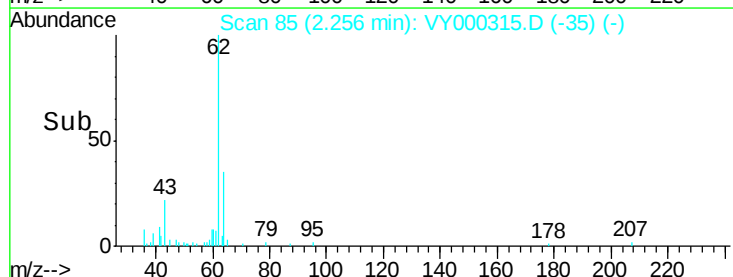
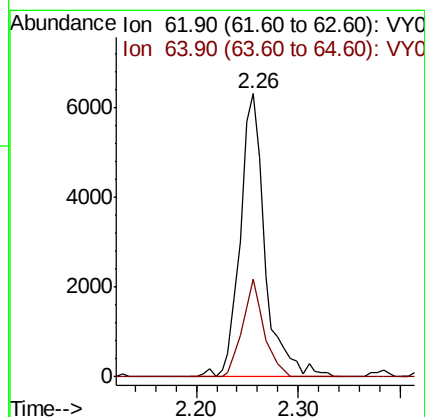
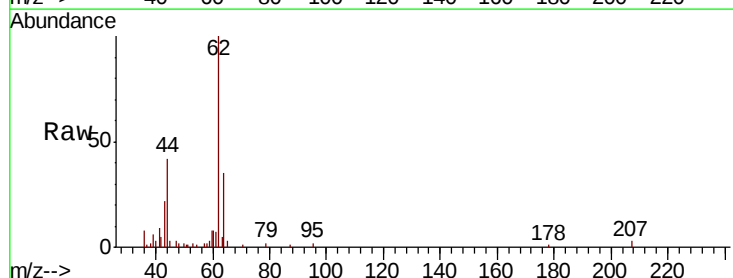
Acq: 15 Oct 2019 13:17

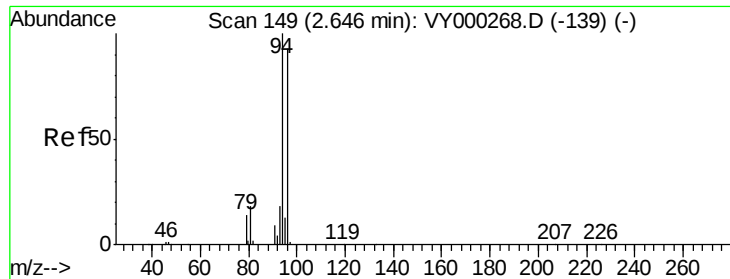
Tgt Ion: 62 Resp: 10554

Ion Ratio Lower Upper

62 100

64 34.5 25.6 38.4





#5

Bromomethane

Concen: 3.268 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 94 Resp: 8865

Ion Ratio Lower Upper

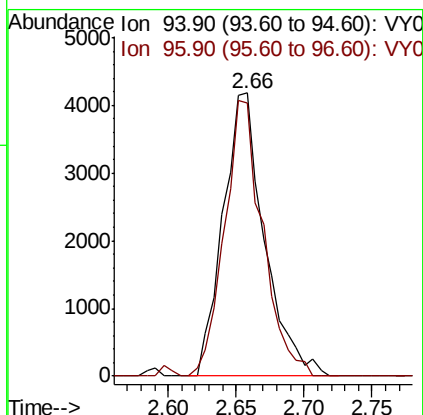
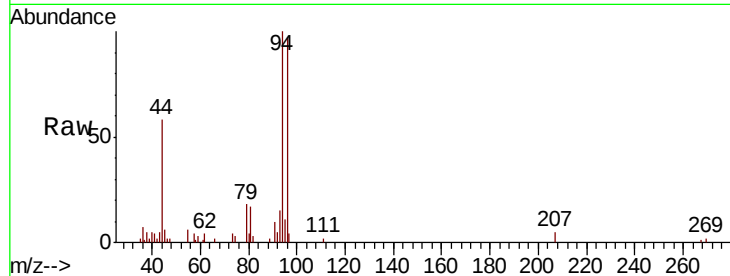
94 100

96 96.6 74.2 111.2

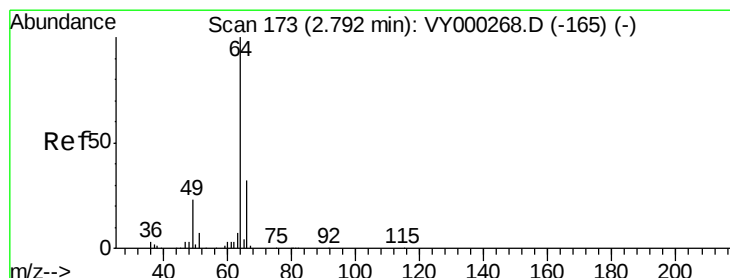
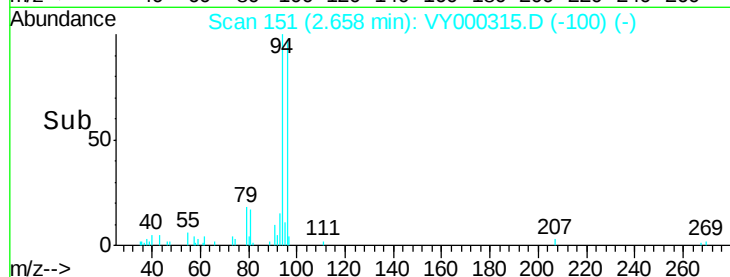
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#6

Chloroethane

Concen: 3.171 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.01 min

Lab File: VY000315.D

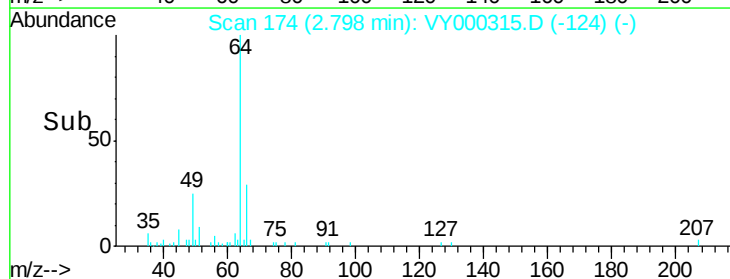
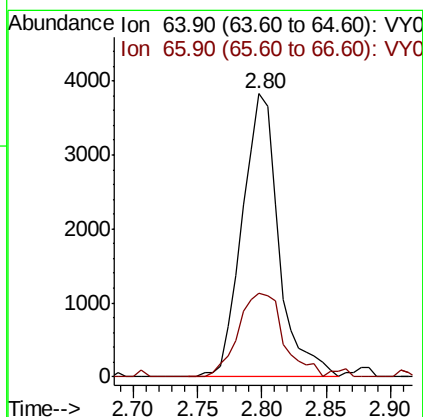
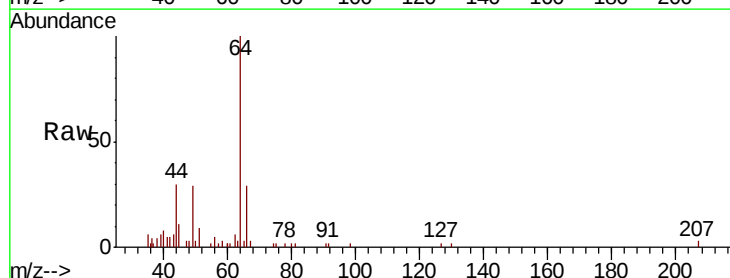
Acq: 15 Oct 2019 13:17

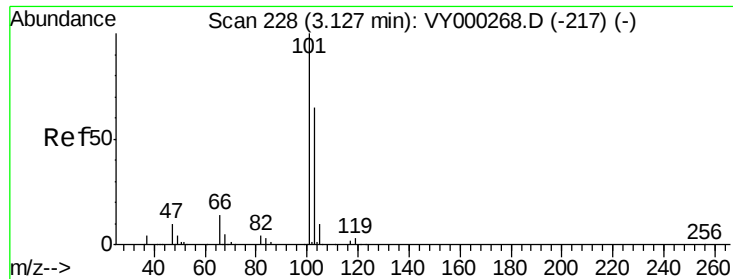
Tgt Ion: 64 Resp: 7488

Ion Ratio Lower Upper

64 100

66 29.4 25.6 38.4





#7

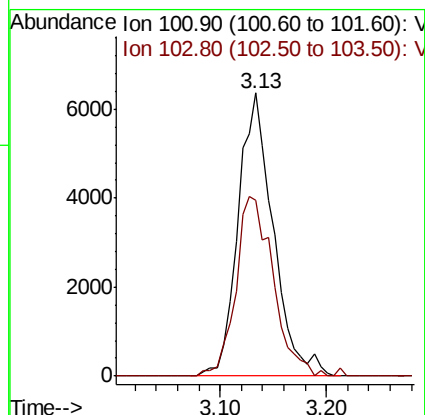
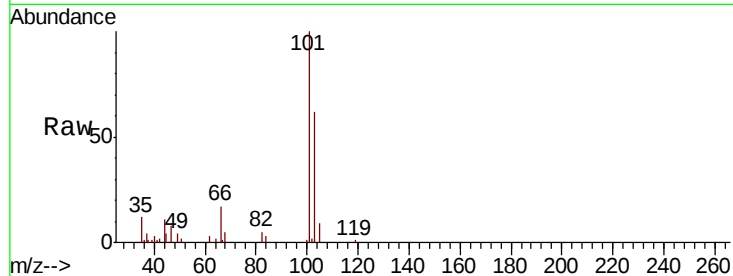
Trichlorofluoromethane
Concen: 2.934 ug/l
RT: 3.13 min Scan# 229
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

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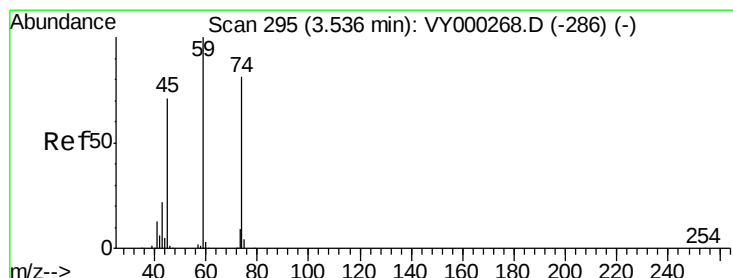
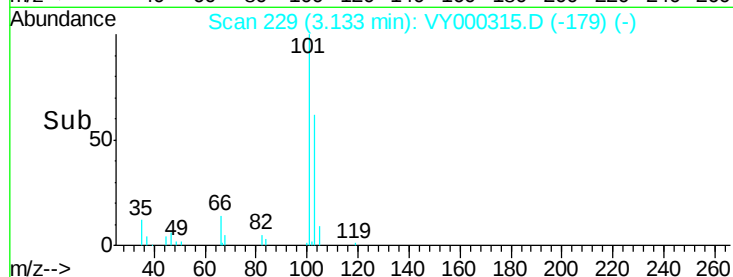
Tot Ion:101 Resp: 14692
Ion Ratio Lower Upper
101 100
103 62.0 52.2 78.4

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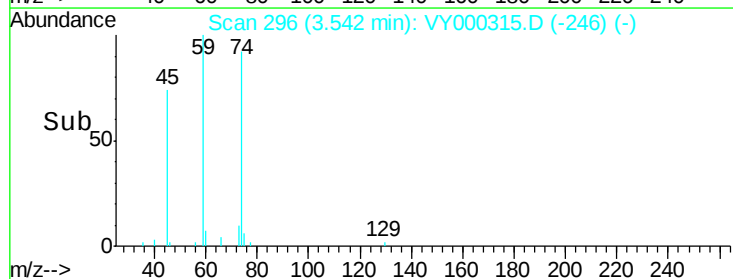
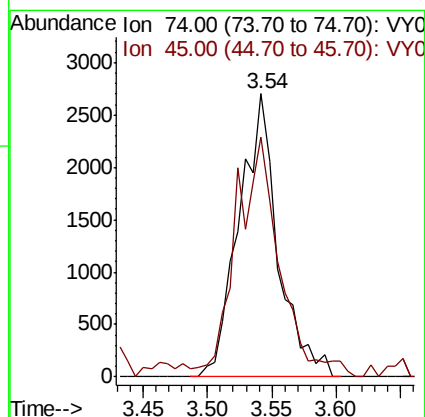
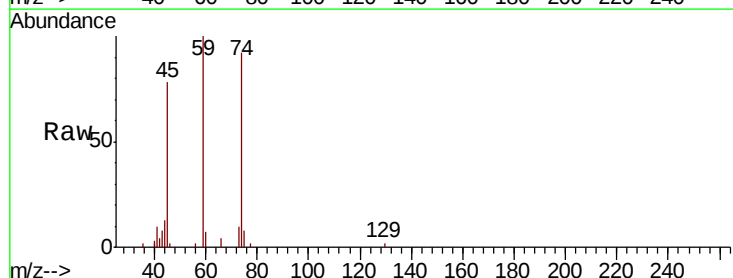
10/18/2019 12:40:22 AM

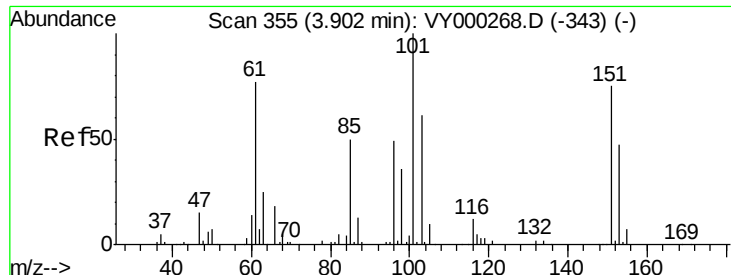


#8

Diethyl Ether
Concen: 3.190 ug/l
RT: 3.54 min Scan# 296
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 74 Resp: 5643
Ion Ratio Lower Upper
74 100
45 95.8 47.1 141.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.415 ug/l

RT: 3.91 min Scan# 356

Delta R.T. 0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

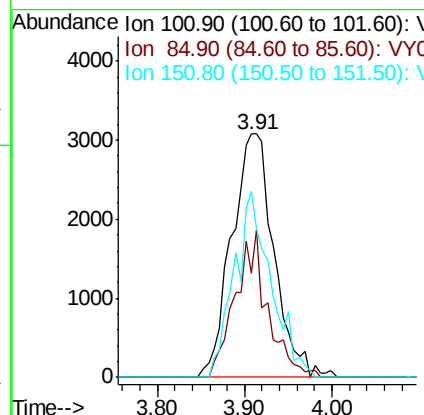
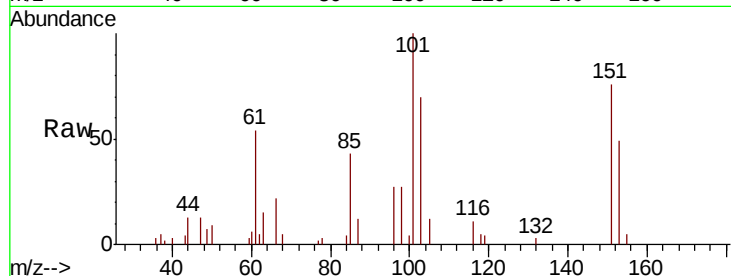
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LOD-MDL-SOIL-01-QT4-2019

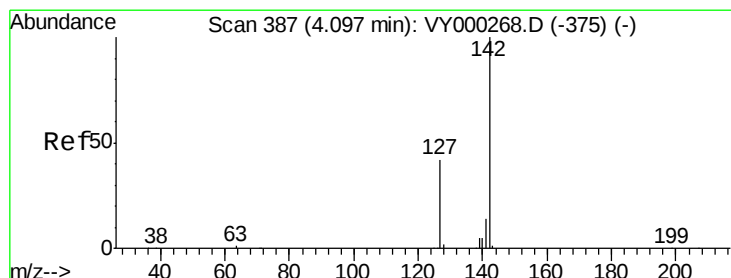
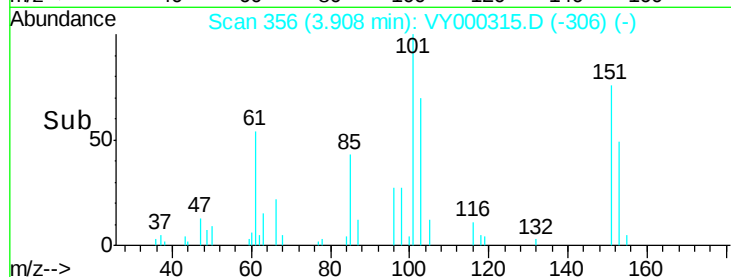
Tot Ion:	101	Resp:	10371
Ion Ratio	Lower	Upper	
101	100		
85	45.7	36.6	55.0
151	66.0	63.1	94.7

Manual Integrations
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#10

Methyl Iodide

Concen: 2.051 ug/l

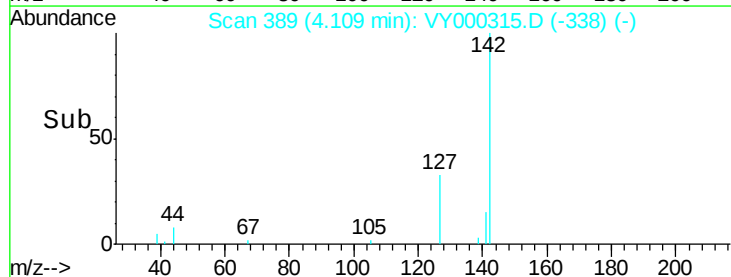
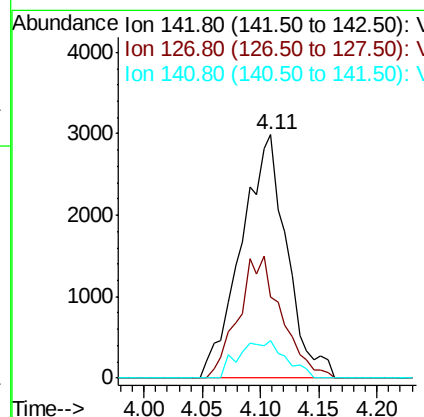
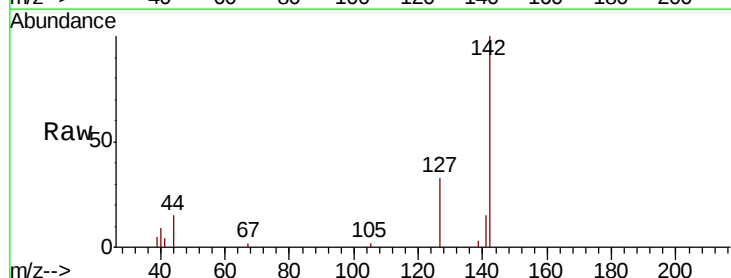
RT: 4.11 min Scan# 389

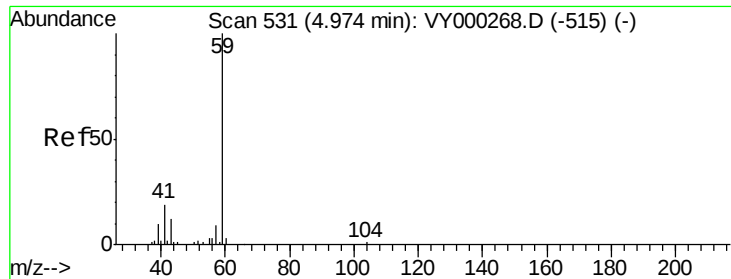
Delta R.T. 0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tgt Ion:	142	Resp:	8130
Ion Ratio	Lower	Upper	
142	100		
127	47.2	33.9	50.9
141	15.7	11.2	16.8





#11

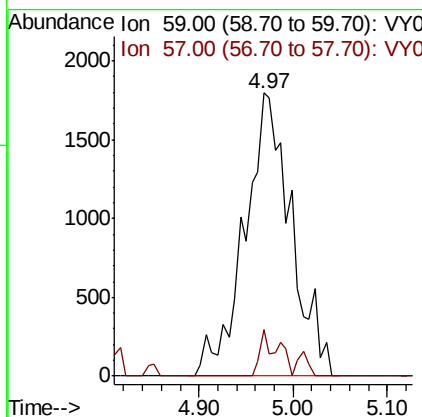
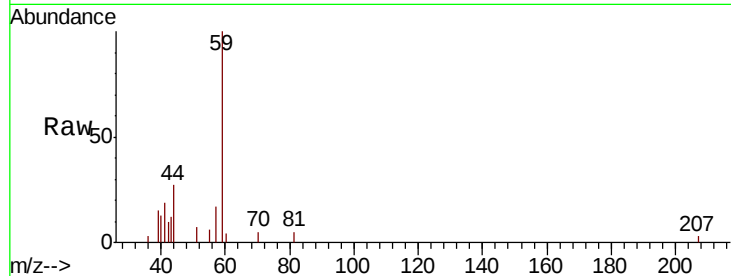
Tert butyl alcohol
Concen: 18.834 ug/l
RT: 4.97 min Scan# 530
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

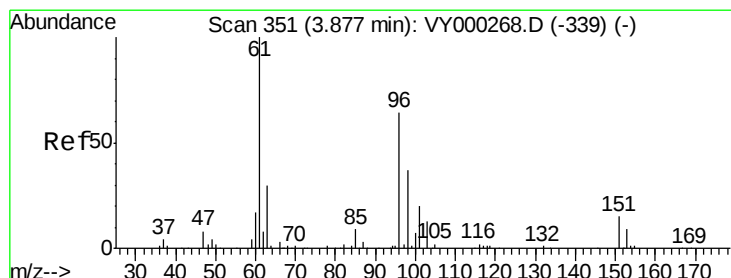
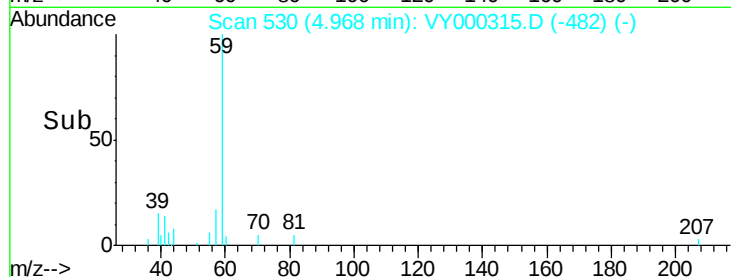
Tot Ion: 59 Resp: 6171
Ion Ratio Lower Upper
59 100
57 4.0 8.2 12.2#

Manual Integrations
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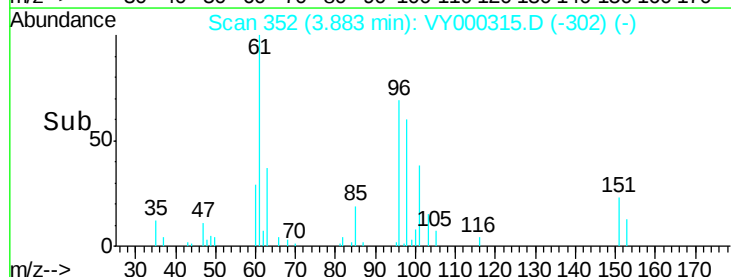
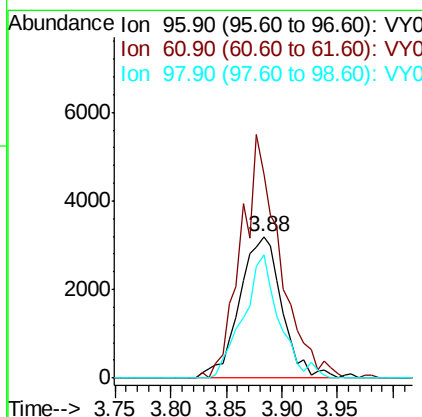
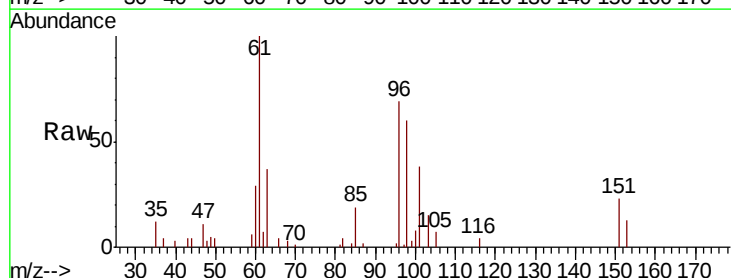
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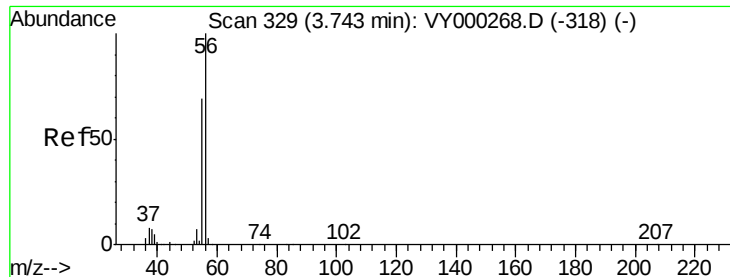


#12

1,1-Dichloroethene
Concen: 2.817 ug/l
RT: 3.88 min Scan# 352
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 96 Resp: 8446
Ion Ratio Lower Upper
96 100
61 144.7 125.8 188.6
98 87.4 46.2 69.2#





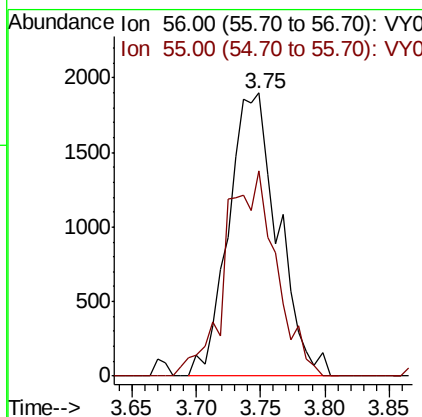
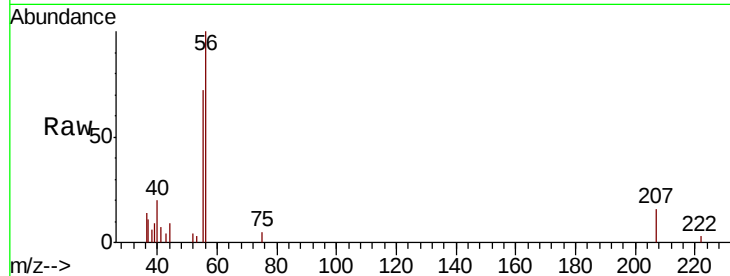
#13
Acrolein
Concen: 13.193 ug/l
RT: 3.75 min Scan# 330
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

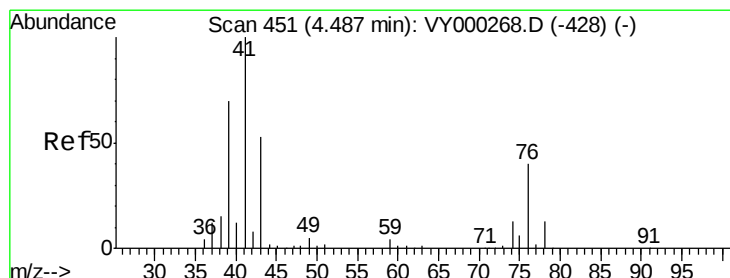
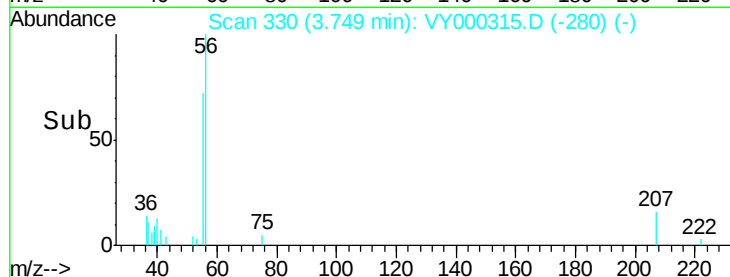
Tot Ion: 56 Resp: 5068
Ion Ratio Lower Upper
56 100
55 74.1 55.7 83.5

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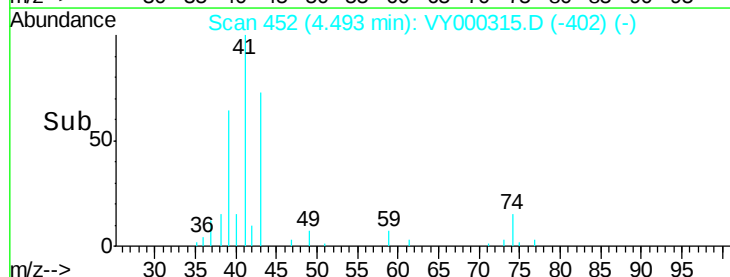
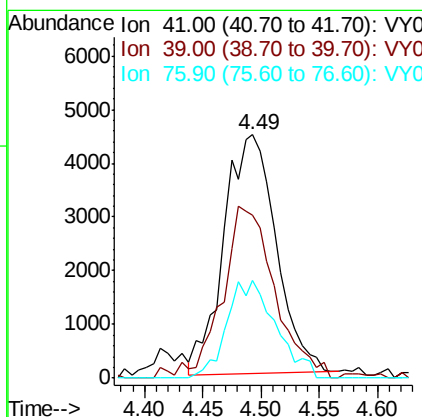
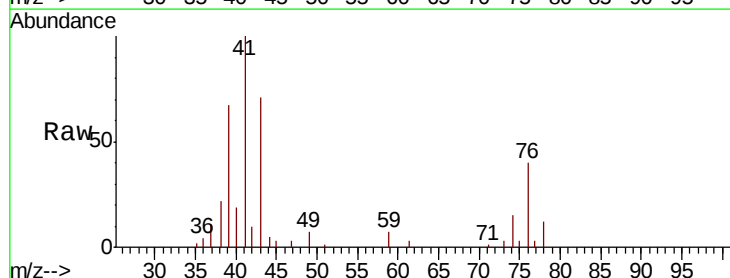


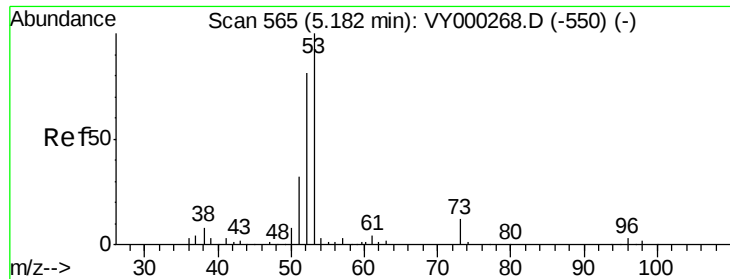
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#14
Allyl chloride
Concen: 2.799 ug/l
RT: 4.49 min Scan# 452
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 41 Resp: 13905
Ion Ratio Lower Upper
41 100
39 72.9 54.0 81.0
76 38.2 30.7 46.1





#15

Acrylonitrile

Concen: 13.876 ug/l

RT: 5.18 min Scan# 565

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

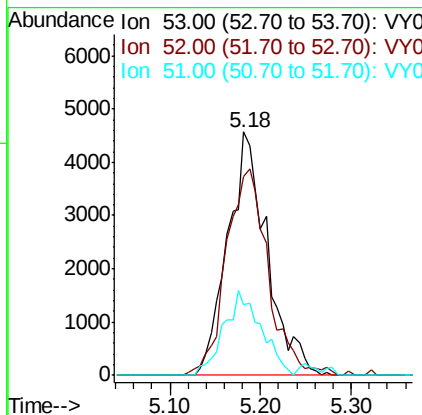
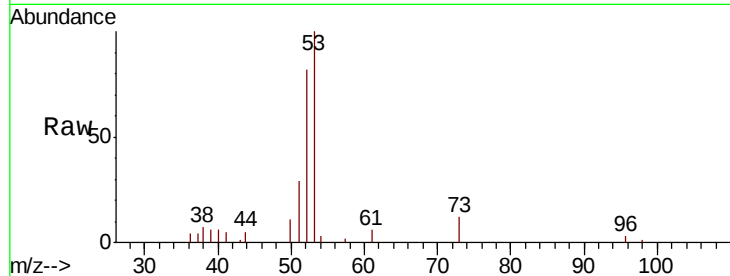
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

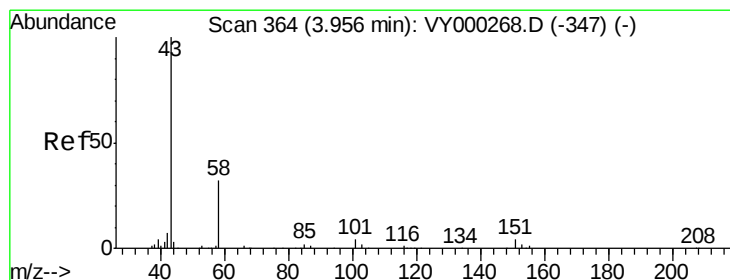
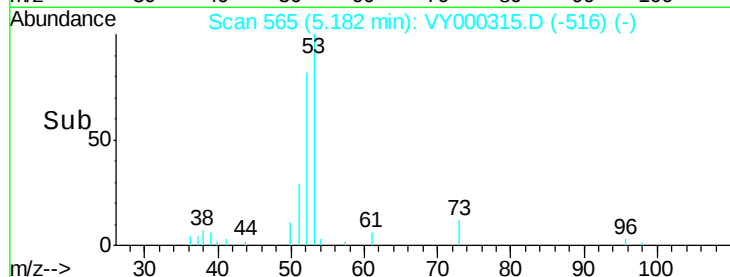
Tot Ion:	53	Resp:	13738
Ion	Ratio	Lower	Upper
53	100		
52	90.3	62.9	94.3
51	33.0	26.9	40.3

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#16

Acetone

Concen: 14.728 ug/l

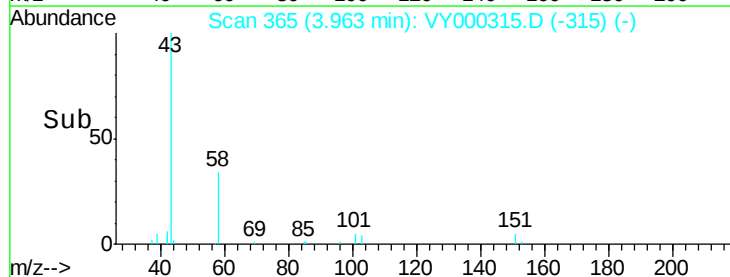
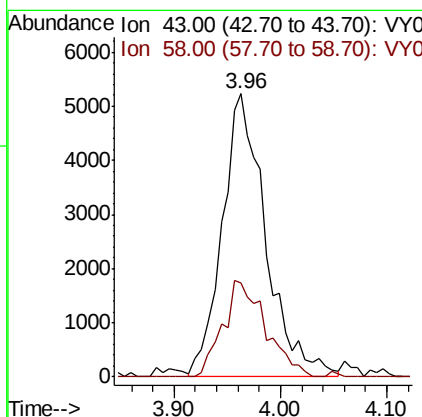
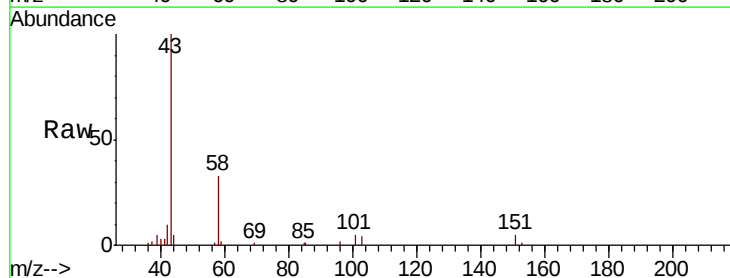
RT: 3.96 min Scan# 365

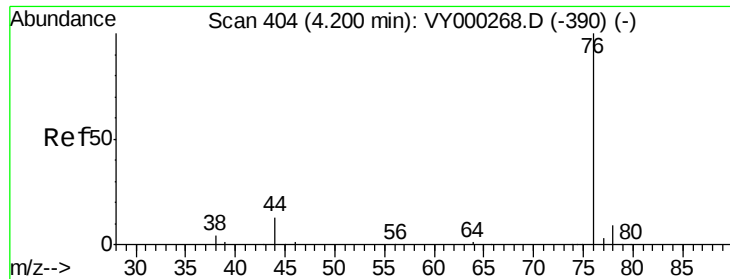
Delta R.T. 0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tgt Ion:	43	Resp:	14933
Ion	Ratio	Lower	Upper
43	100		
58	33.8	25.8	38.6





#17
Carbon Disulfide
Concen: 2.834 ug/l
RT: 4.21 min Scan# 405
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

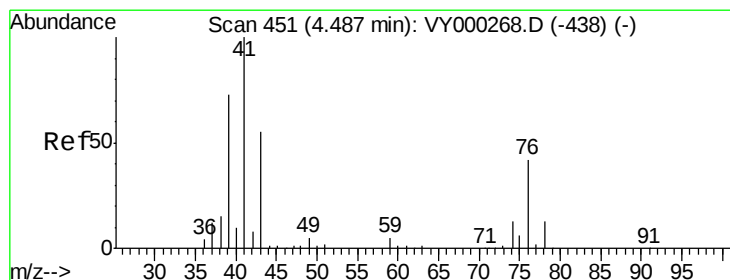
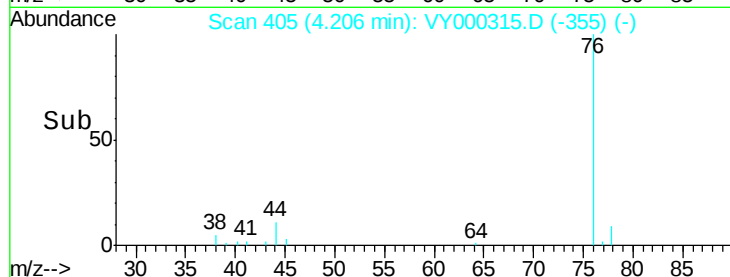
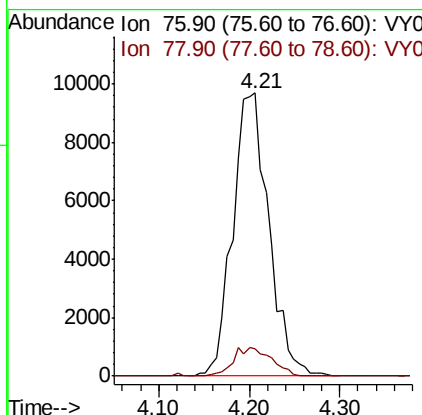
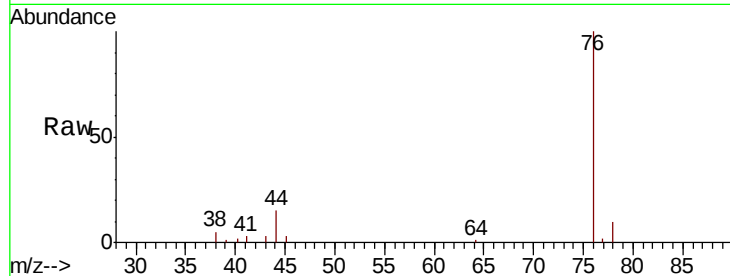
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 76 Resp: 26746
Ion Ratio Lower Upper
76 100
78 9.8 7.0 10.4

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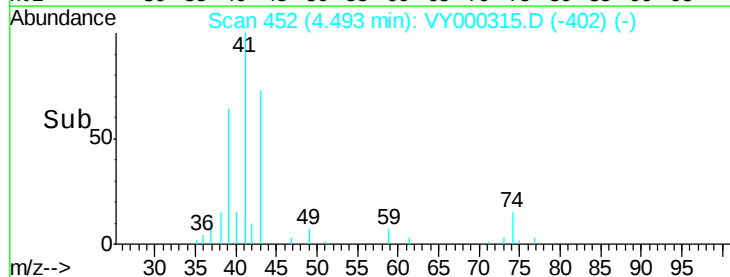
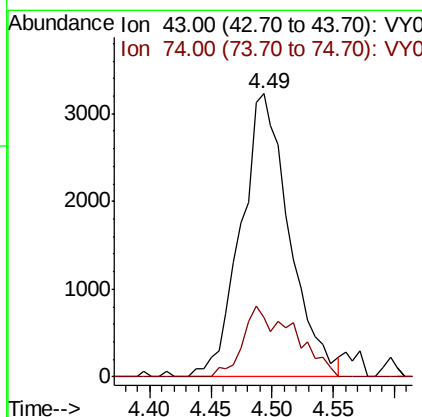
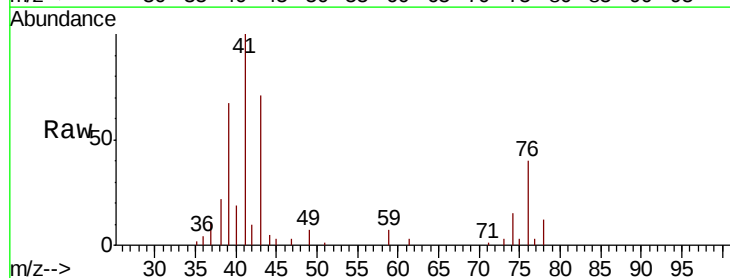
MMDadoda

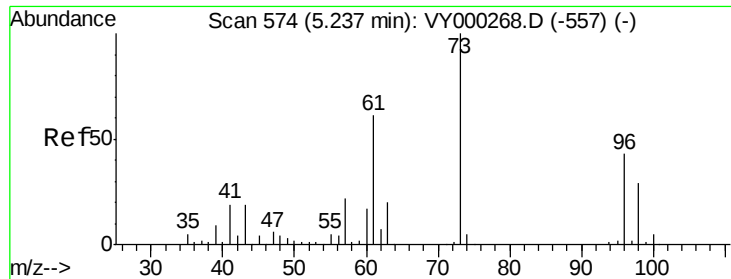
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#18
Methyl Acetate
Concen: 3.541 ug/l
RT: 4.49 min Scan# 452
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 43 Resp: 8921
Ion Ratio Lower Upper
43 100
74 13.5 20.4 30.6#





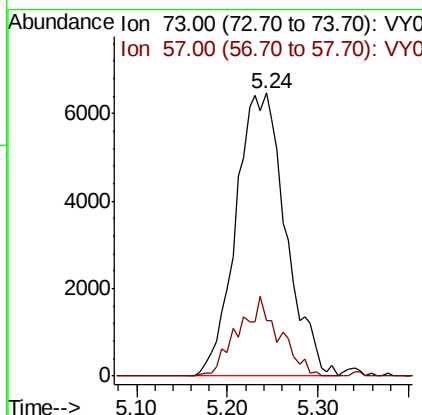
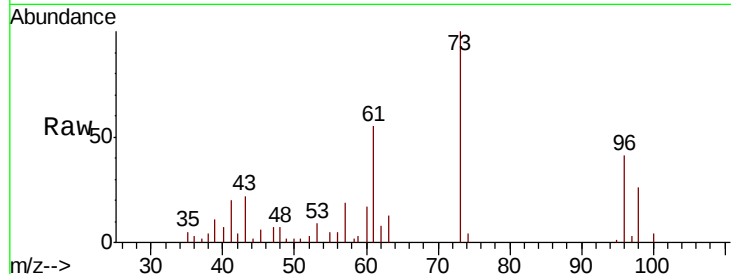
#19
Methvl tert-butvl Ether
Concen: 2.954 ug/l
RT: 5.24 min Scan# 575
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

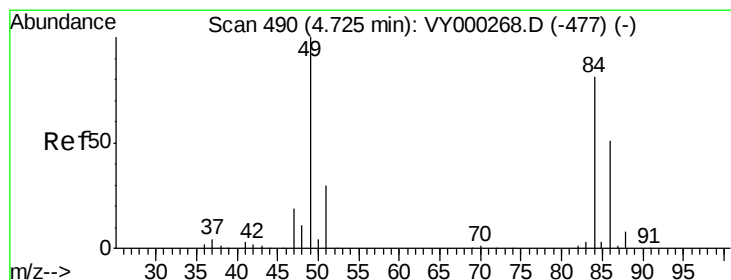
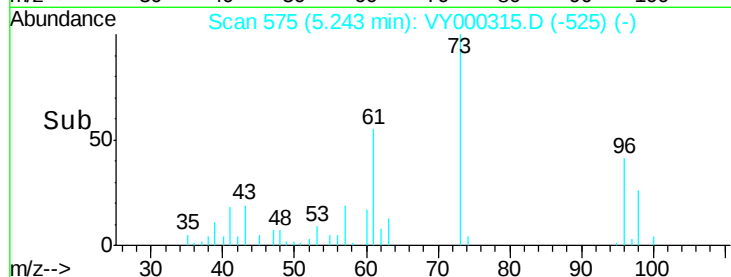
Tot Ion: 73 Resp: 24655
Ion Ratio Lower Upper
73 100
57 19.5 17.4 26.0

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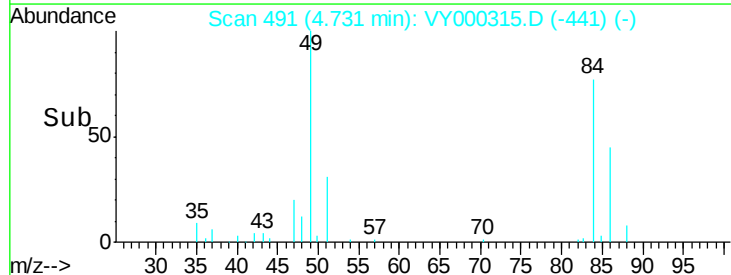
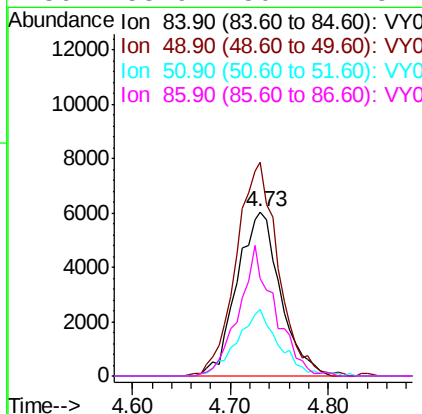
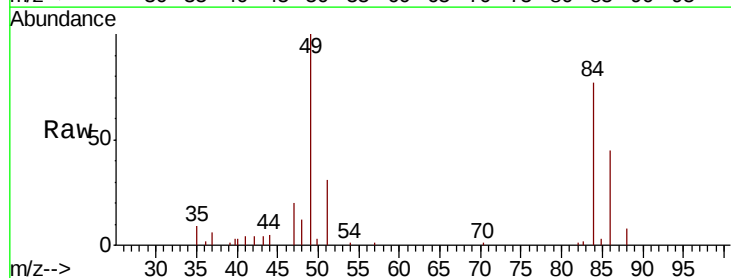


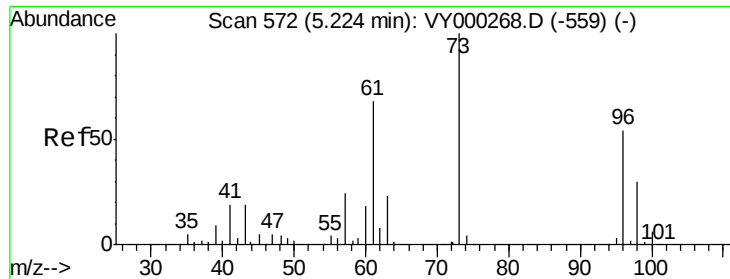
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#20
Methylene Chloride
Concen: 4.481 ug/l
RT: 4.73 min Scan# 491
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 84 Resp: 18631
Ion Ratio Lower Upper
84 100
49 129.1 99.0 148.4
51 40.9 29.3 43.9
86 58.9 50.2 75.4





#21

trans-1,2-Dichloroethene

Concen: 2.852 ug/l

RT: 5.22 min Scan# 572

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 96 Resp: 9809

Ion Ratio Lower Upper

96 100

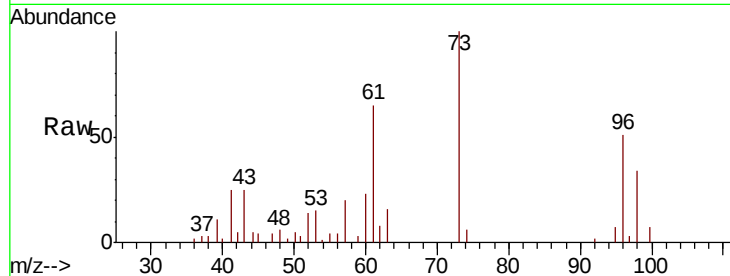
61 128.9 100.4 150.6

98 67.2 44.6 66.8#

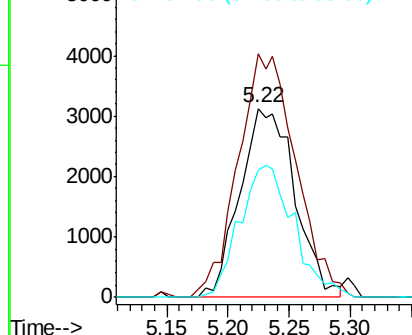
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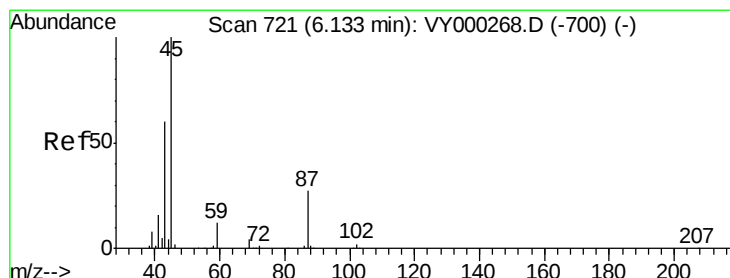
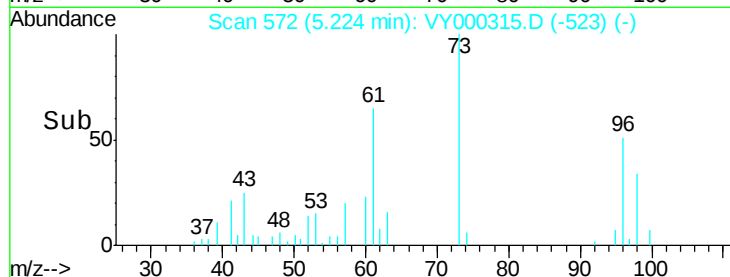
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Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



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#22

Diisopropyl ether

Concen: 2.919 ug/l

RT: 6.14 min Scan# 722

Delta R.T. 0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tgt Ion: 45 Resp: 30668

Ion Ratio Lower Upper

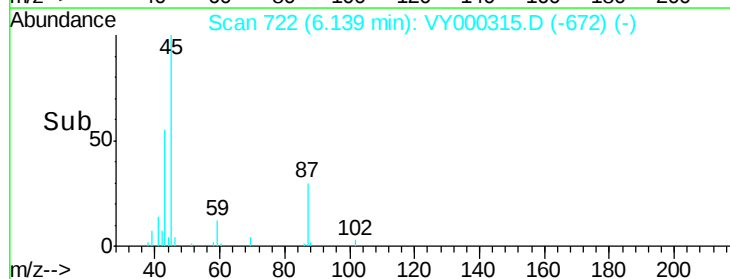
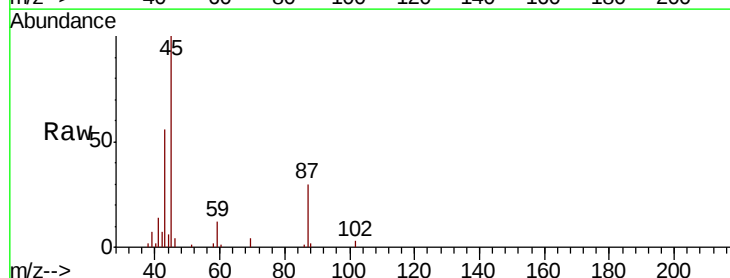
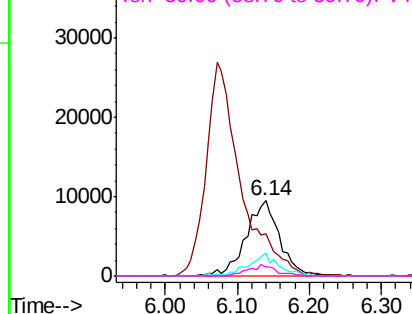
45 100

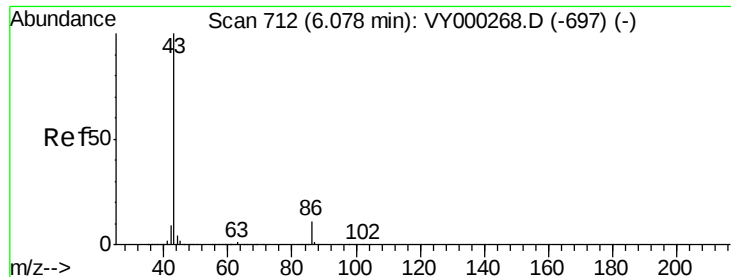
43 54.7 48.5 72.7

87 29.9 21.5 32.3

59 12.3 9.4 14.0

Abundance Ion 45.00 (44.70 to 45.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 87.00 (86.70 to 87.70): VY0
Ion 59.00 (58.70 to 59.70): VY0





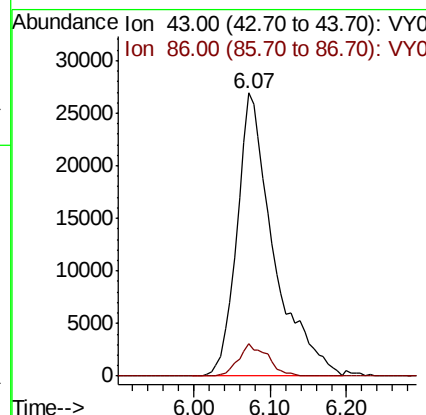
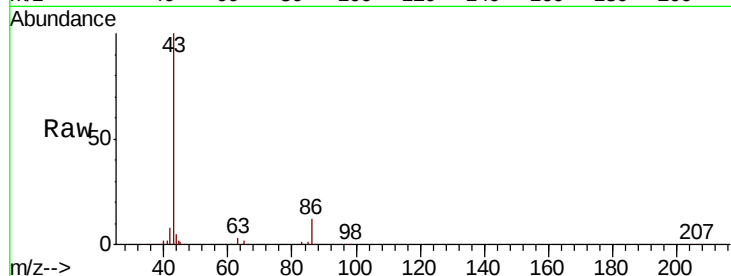
#23
 Vinyl Acetate
 Concen: 13.037 ug/l
 RT: 6.07 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

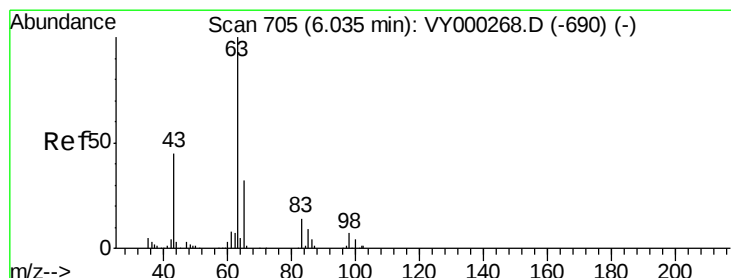
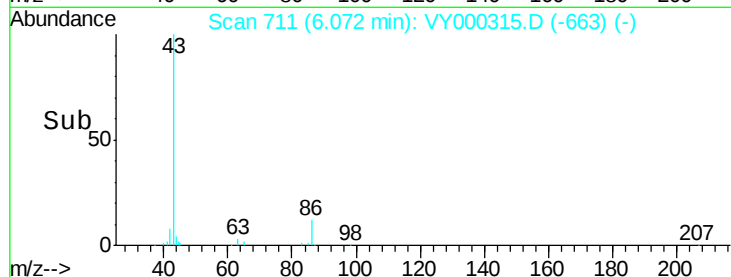
Tot Ion	Ratio	Lower	Upper
43	100		
86	11.6	8.6	13.0

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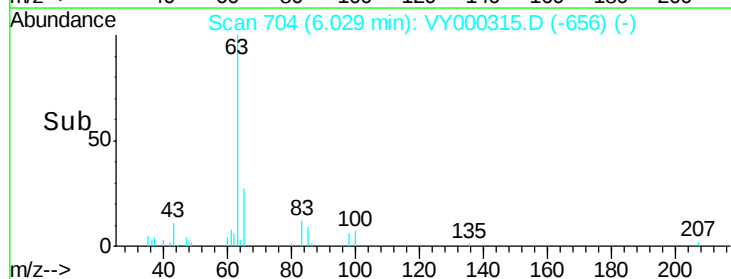
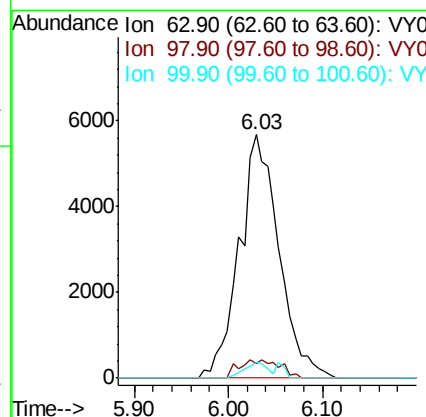
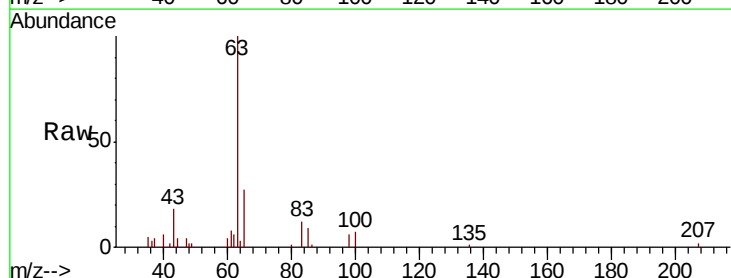


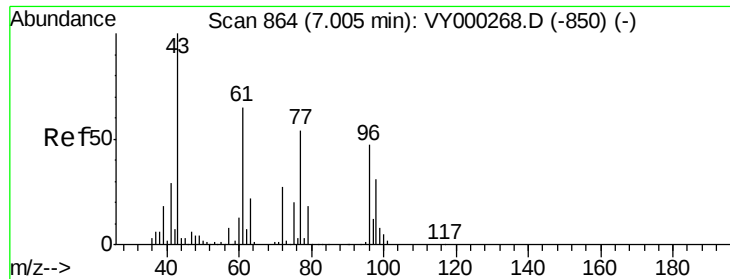
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#24
 1,1-Dichloroethane
 Concen: 2.914 ug/l
 RT: 6.03 min Scan# 704
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.5	10.4
100	6.5	2.1	6.2#





#25

2-Butanone

Concen: 14.855 ug/l

RT: 7.02 min Scan# 866

Delta R.T. 0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tot Ion: 43 Resp: 21217

Ion Ratio Lower Upper

43 100

72 26.3 21.4 32.2

Instrument :

MSVOA_Y

ClientSampleId :

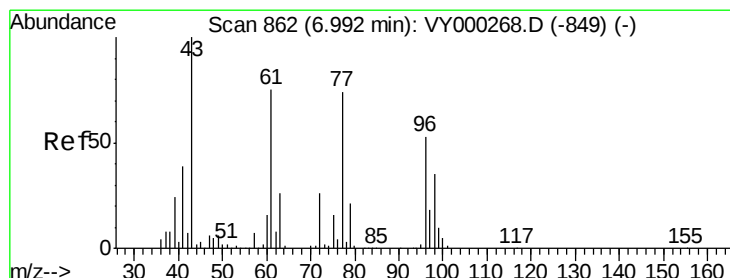
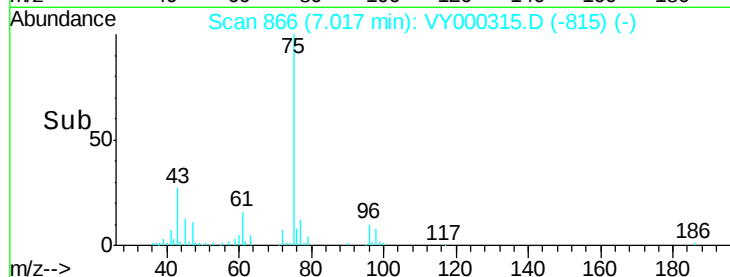
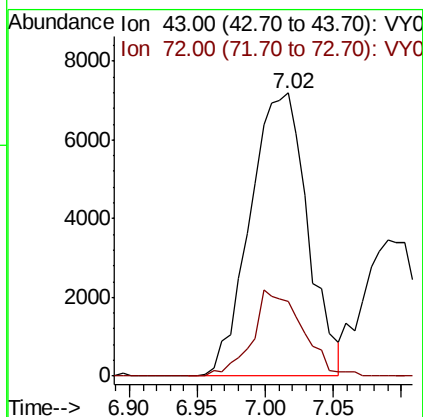
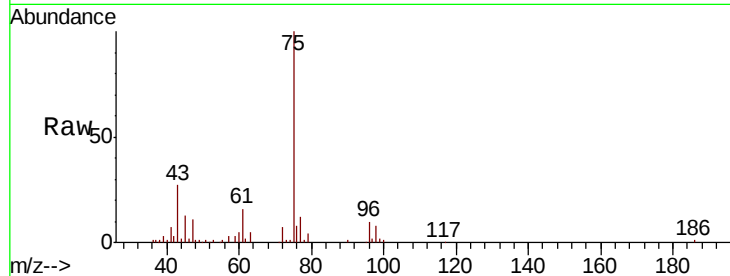
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#26

2,2-Dichloropropane

Concen: 3.167 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.01 min

Lab File: VY000315.D

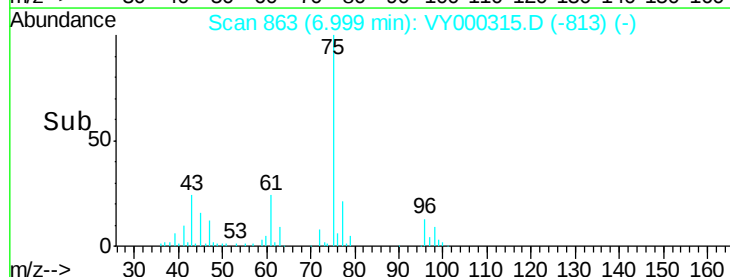
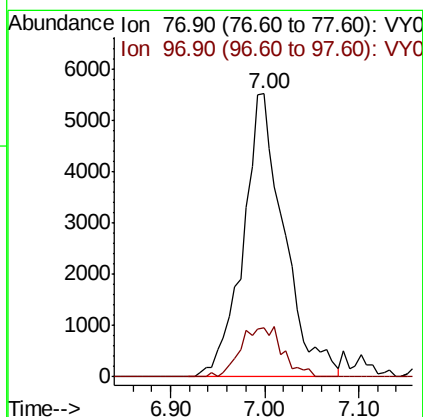
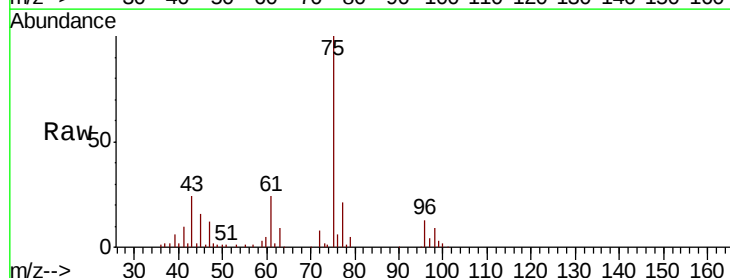
Acq: 15 Oct 2019 13:17

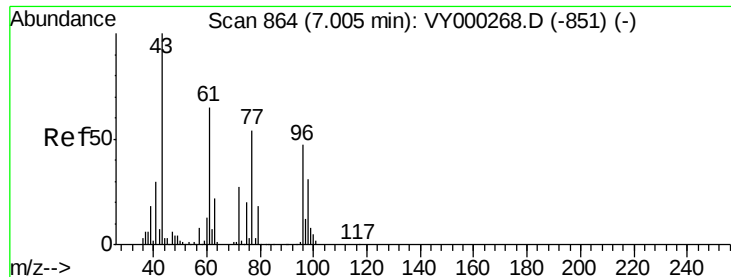
Tgt Ion: 77 Resp: 16734

Ion Ratio Lower Upper

77 100

97 18.0 11.6 34.7





#27

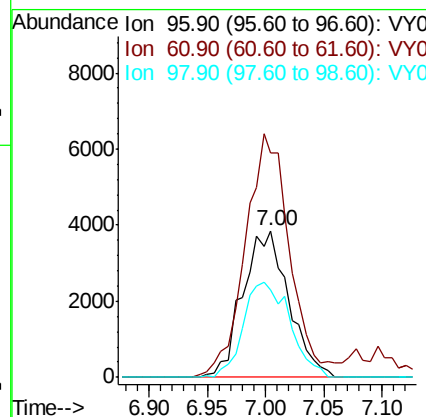
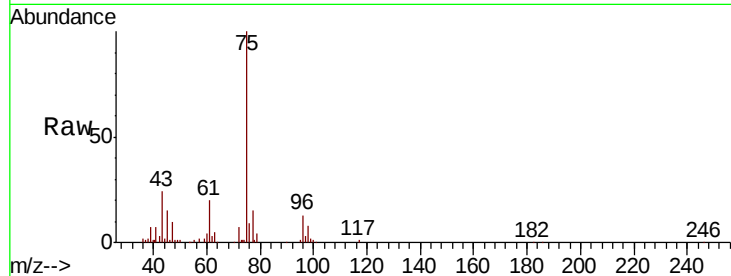
cis-1,2-Dichloroethene
Concen: 2.846 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

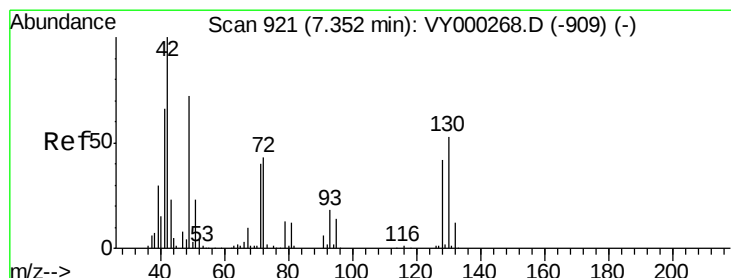
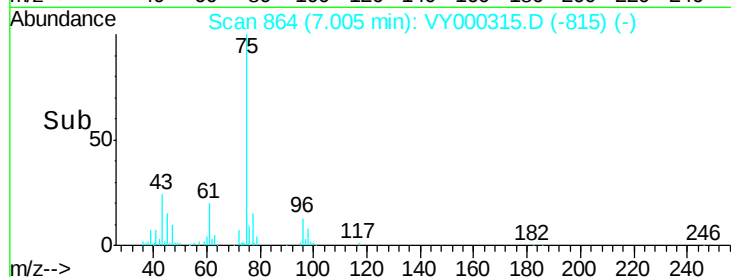
Tot Ion	Ratio	Lower	Upper
96	100		
61	160.9	0.0	289.8
98	65.8	0.0	131.8

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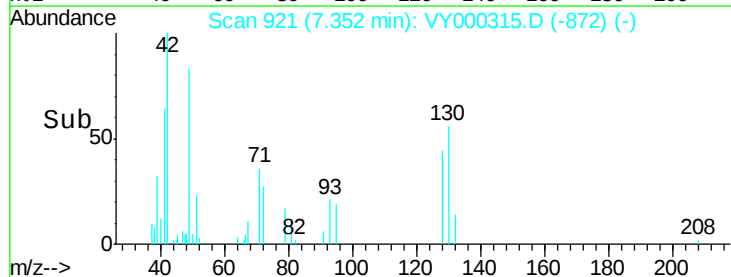
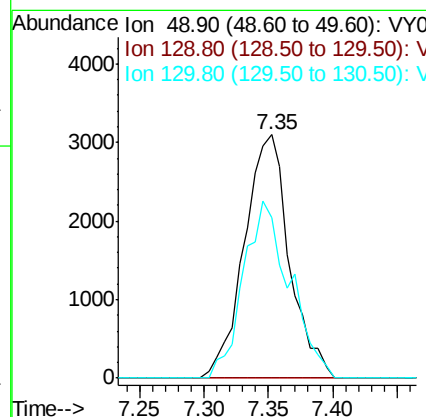
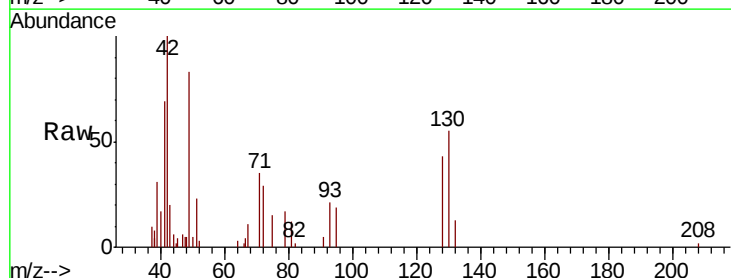
10/18/2019 12:40:22 AM

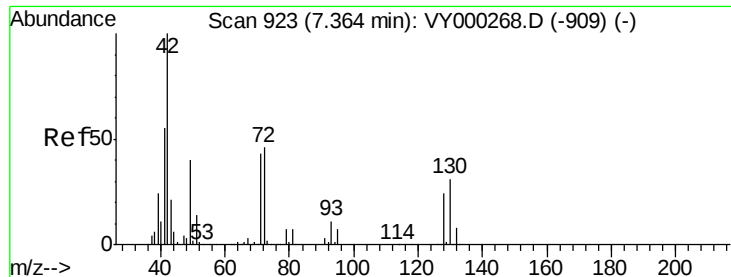


#28

Bromochloromethane
Concen: 3.048 ug/l
RT: 7.35 min Scan# 921
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	75.0	58.2	87.2





#29
Tetrahydrofuran
Concen: 15.024 ug/l
RT: 7.36 min Scan# 923
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

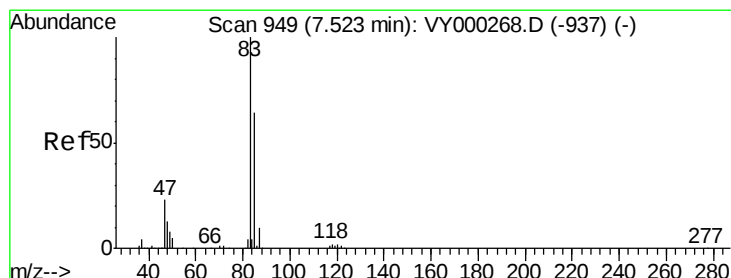
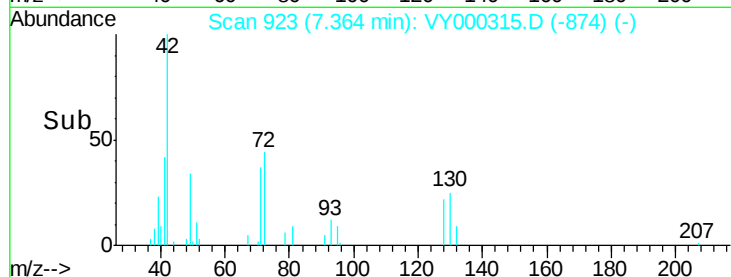
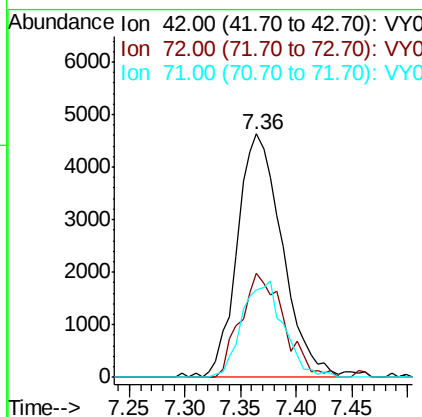
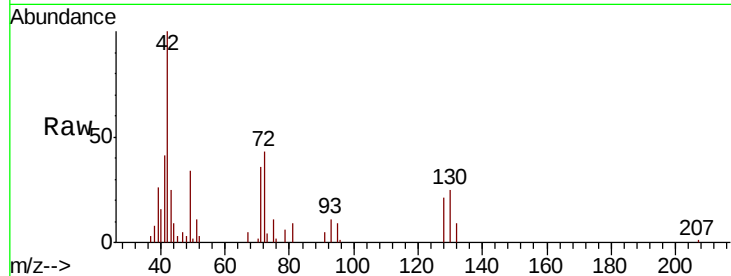
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	42	Resp:	13005
Ion Ratio	Lower	Upper	
42	100		
72	41.7	34.5	51.7
71	36.7	32.7	49.1

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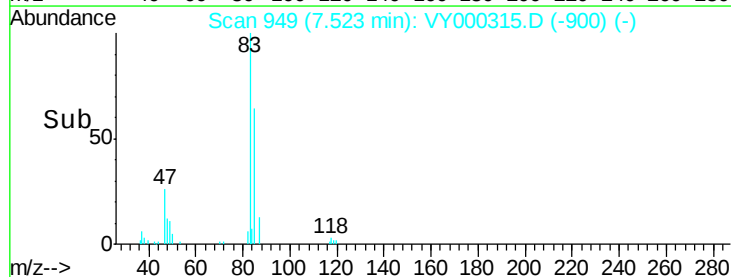
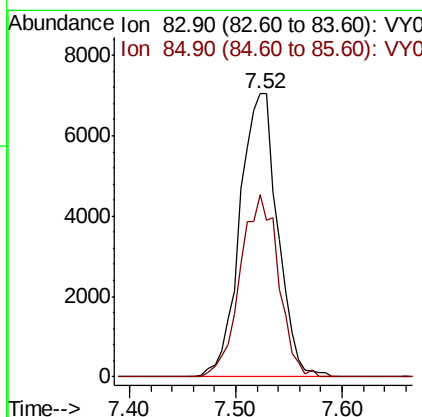
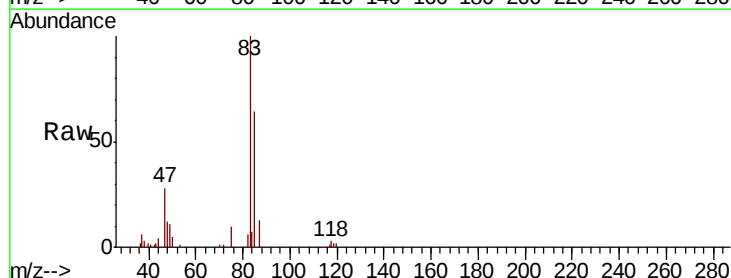
MM Dadoda

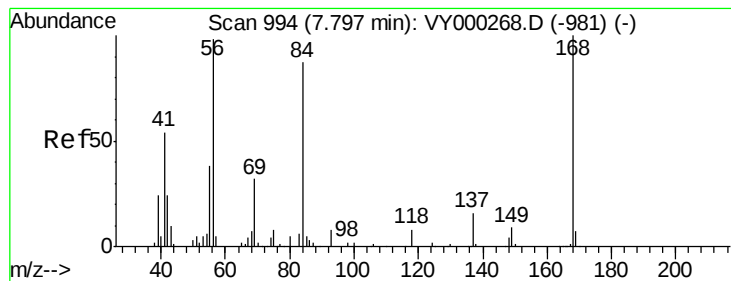
10/18/2019 12:40:22 AM



#30
Chloroform
Concen: 3.051 ug/l
RT: 7.52 min Scan# 949
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion:	83	Resp:	17620
Ion Ratio	Lower	Upper	
83	100		
85	64.4	51.4	77.2





#31

Cyclohexane

Concen: 3.844 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 56 Resp: 23027
Ion Ratio Lower Upper

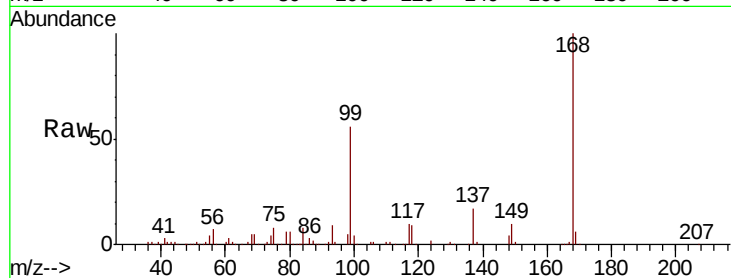
56 100

69 74.7 26.3 39.5#

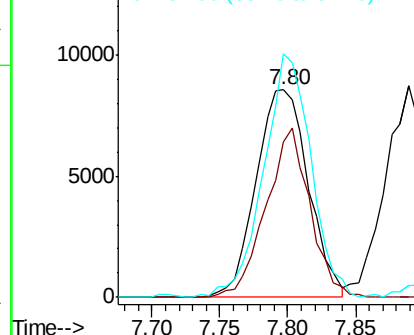
84 117.5 70.8 106.2#

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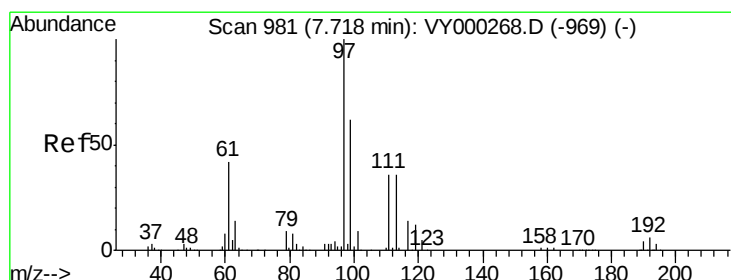
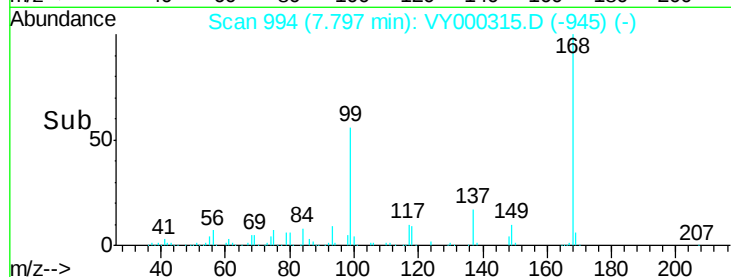
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Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



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#32

1,1,1-Trichloroethane

Concen: 2.806 ug/l

RT: 7.72 min Scan# 981

Delta R.T. 0.00 min

Lab File: VY000315.D

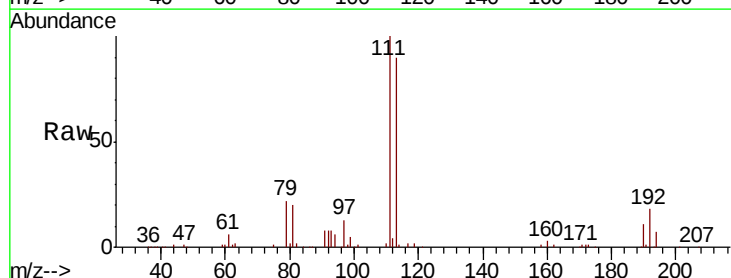
Acq: 15 Oct 2019 13:17

Tgt Ion: 97 Resp: 14406
Ion Ratio Lower Upper

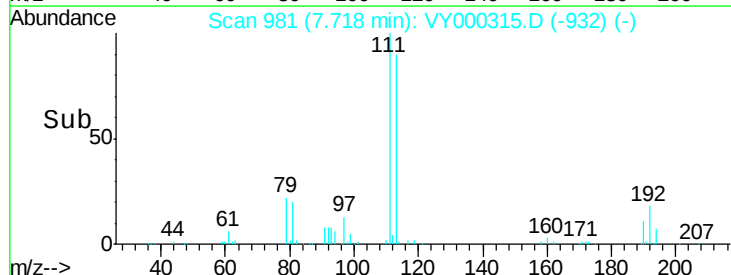
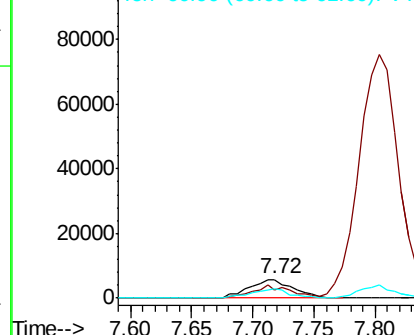
97 100

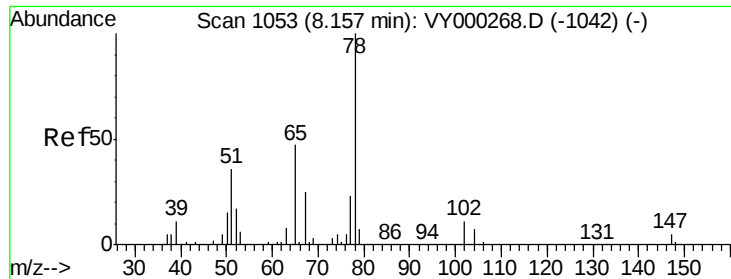
99 61.2 51.7 77.5

61 43.9 34.5 51.7



Abundance Ion 96.90 (96.60 to 97.60): VY0
Ion 98.90 (98.60 to 99.60): VY0
Ion 60.90 (60.60 to 61.60): VY0





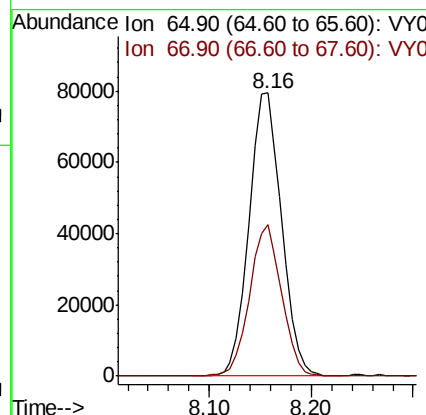
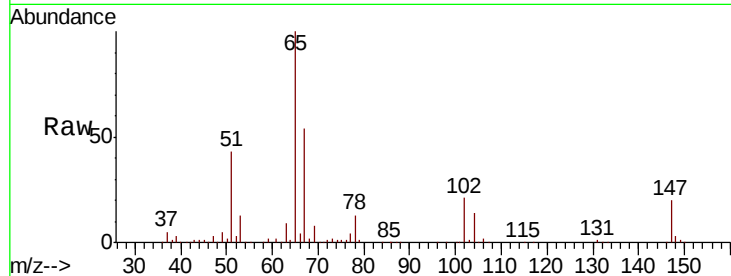
#33
 1,2-Dichloroethane-d4
 Concen: 56.426 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

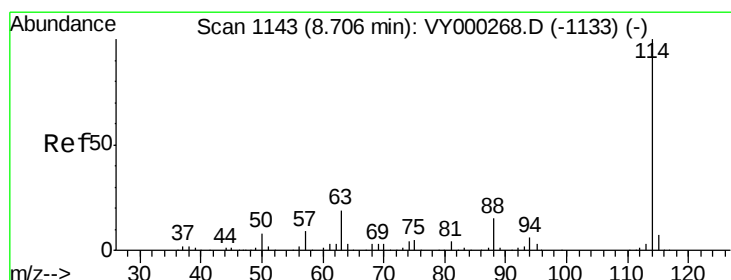
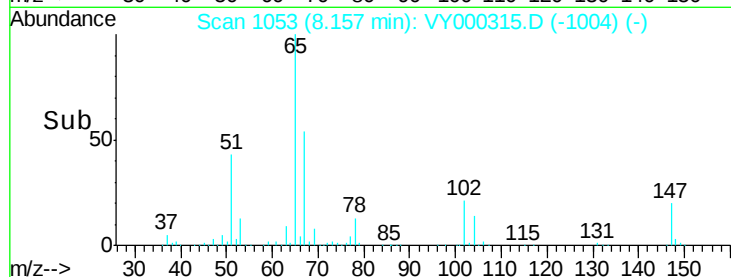
Tot Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	109.4

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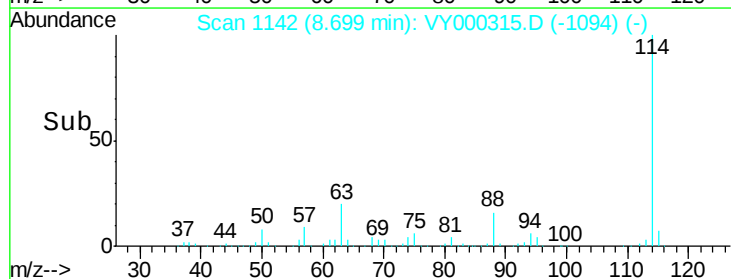
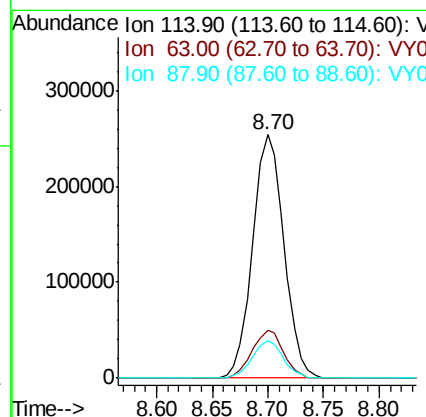
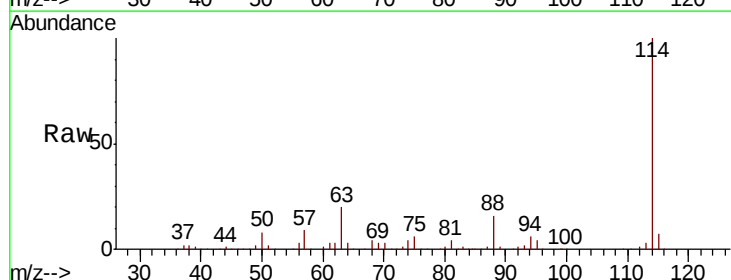


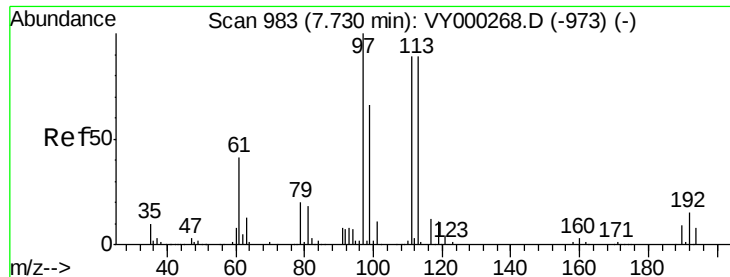
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	37.2
88	15.6	0.0	30.2





#35

Dibromofluoromethane

Concen: 51.253 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

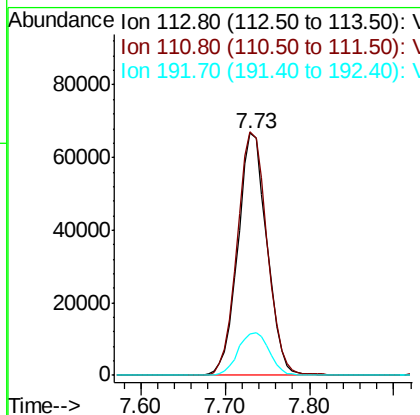
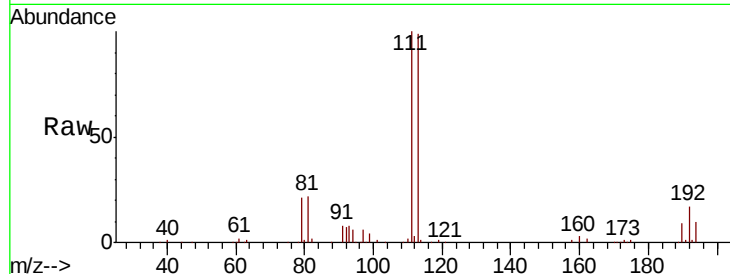
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

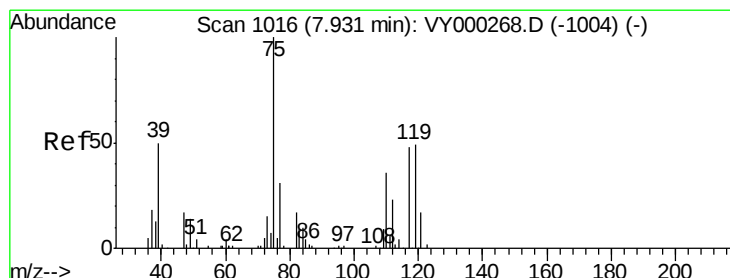
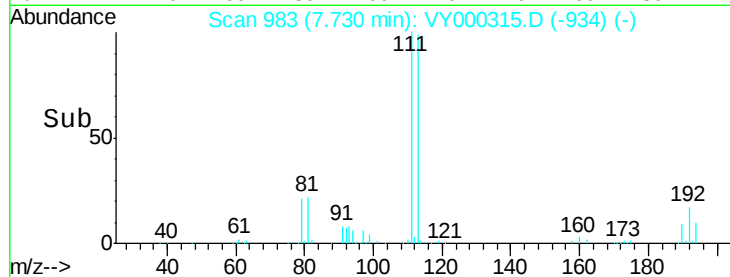
Tot Ion:	113	Resp:	154301
Ion Ratio	Lower	Upper	
113	100		
111	103.9	81.6	122.4
192	19.1	15.3	22.9

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#36

1,1-Dichloropropene

Concen: 3.005 ug/l

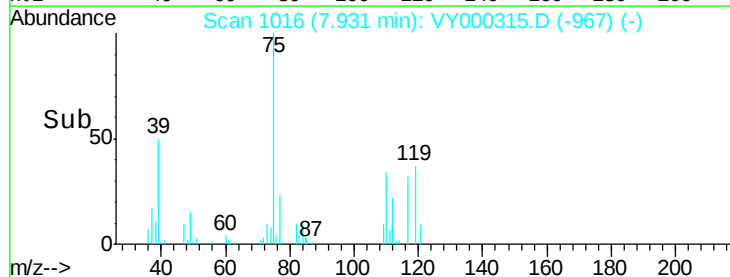
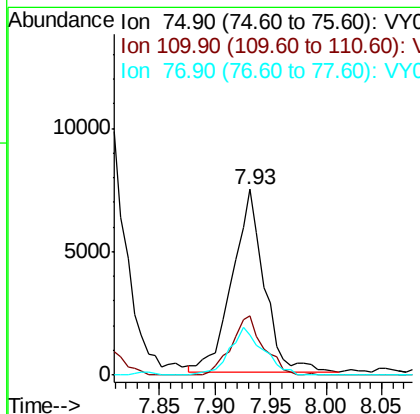
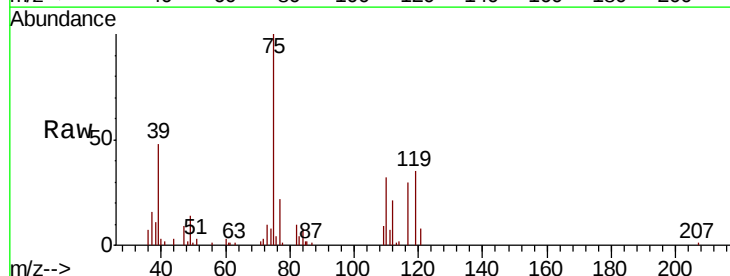
RT: 7.93 min Scan# 1016

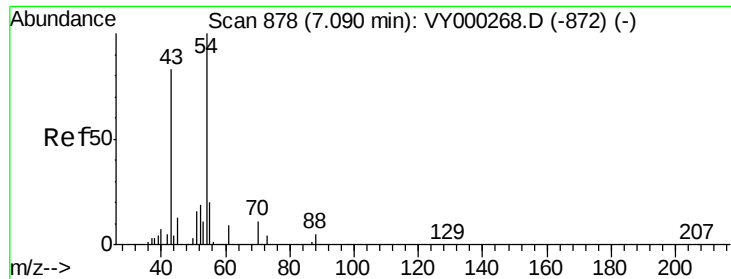
Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tgt Ion:	75	Resp:	14684
Ion Ratio	Lower	Upper	
75	100		
110	32.4	18.4	55.4
77	27.4	25.0	37.6





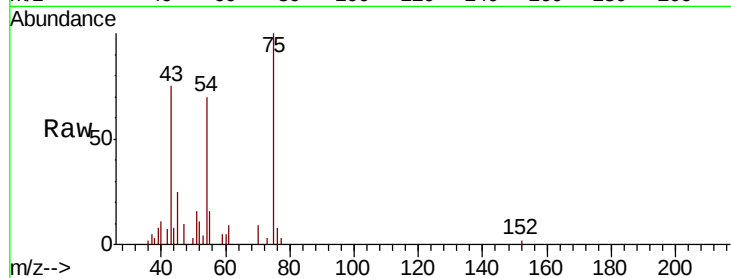
#37
Ethyl Acetate
Concen: 3.713 ug/l
RT: 7.09 min Scan# 878
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.0	12.1	18.1#
70	10.3	8.7	13.1

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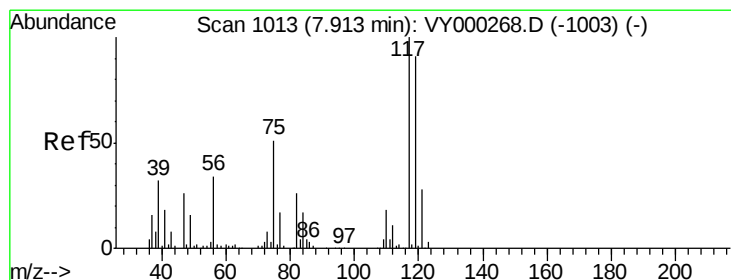
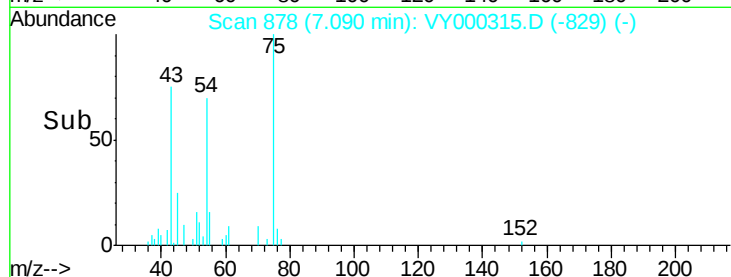
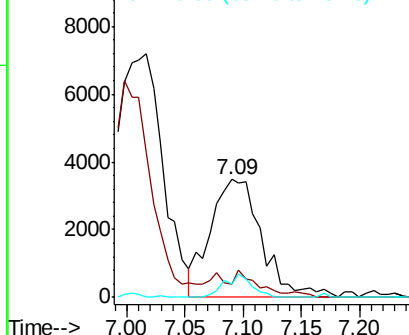
Abundance

Ion 43.00 (42.70 to 43.70): VY0

Ion 60.90 (60.60 to 61.60): VY0

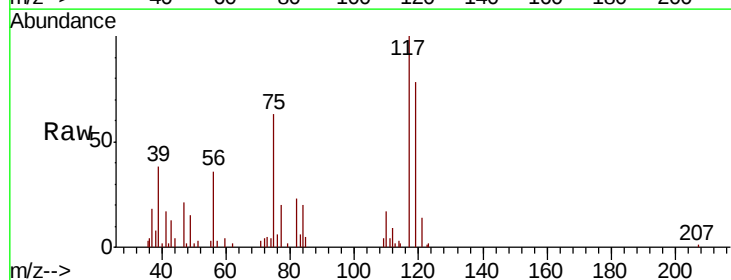
Ion 70.00 (69.70 to 70.70): VY0

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#38
Carbon Tetrachloride
Concen: 2.803 ug/l
RT: 7.91 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	78.1	72.8	109.2
121	13.8	22.2	33.2#

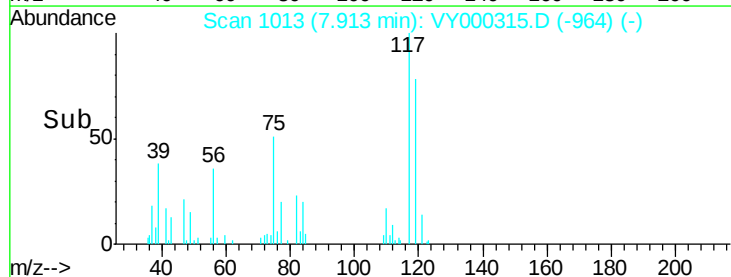
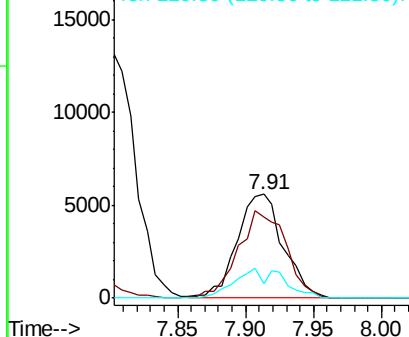


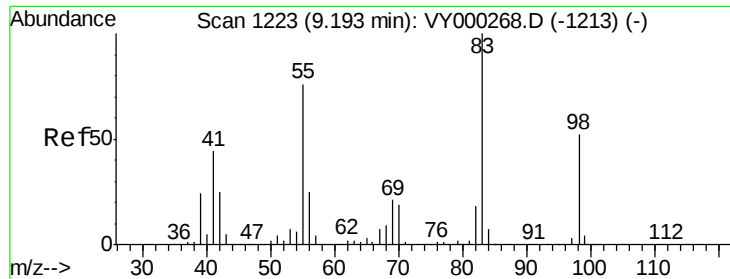
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39
Methvlcvclohexane
Concen: 2.861 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

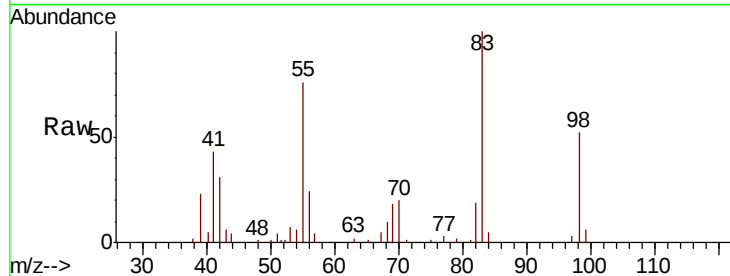
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.9	91.3
98	52.5	41.8	62.6

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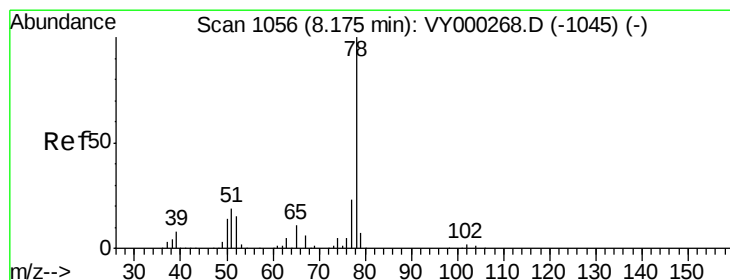
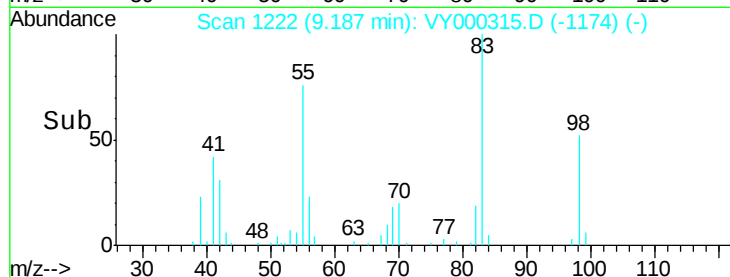
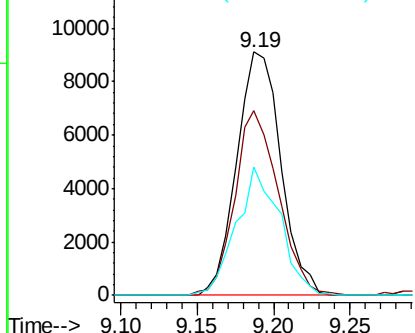


Abundance

Ion 83.00 (82.70 to 83.70): VY0

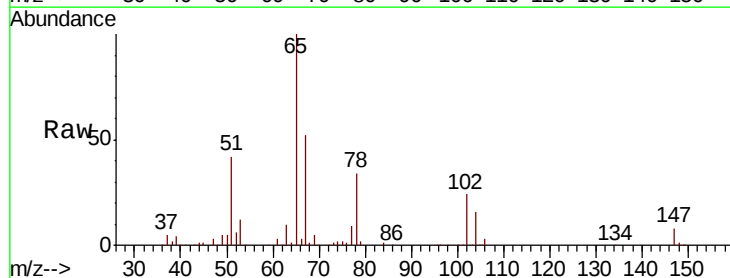
Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0



#40
Benzene
Concen: 2.740 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

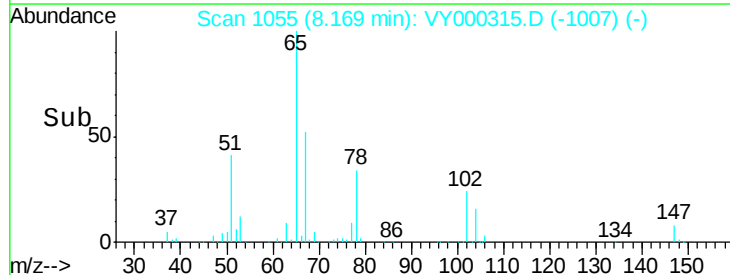
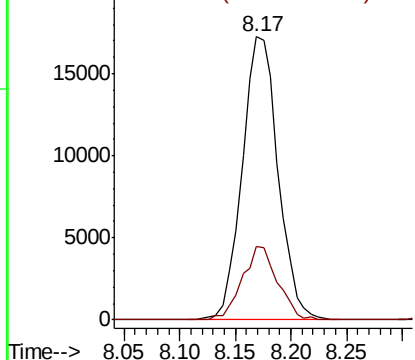
Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.0	18.8	28.2

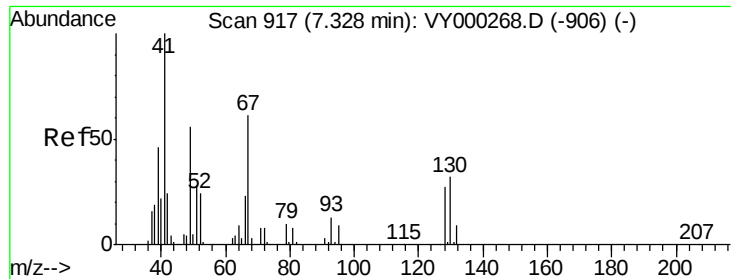


Abundance

Ion 78.00 (77.70 to 78.70): VY0

Ion 77.00 (76.70 to 77.70): VY0





#41
Methacrylonitrile
Concen: 2.797 ug/l
RT: 7.33 min Scan# 917
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

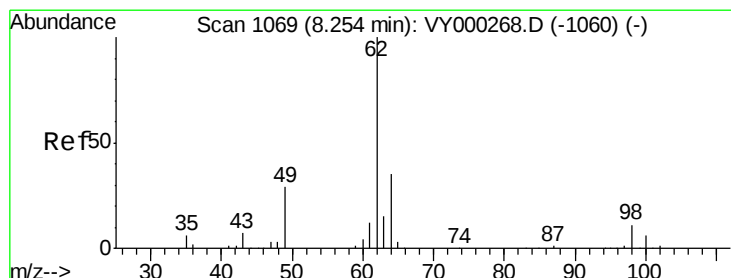
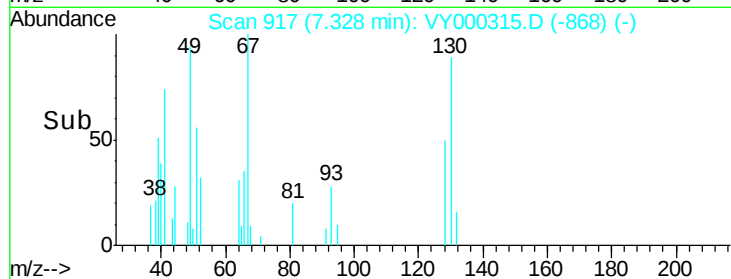
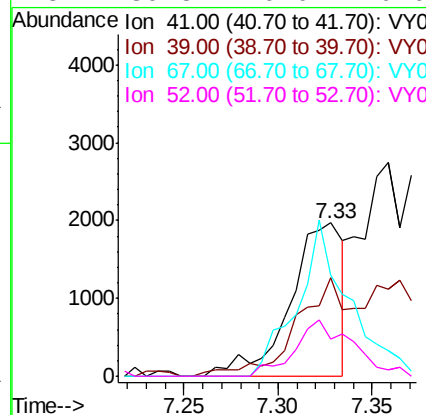
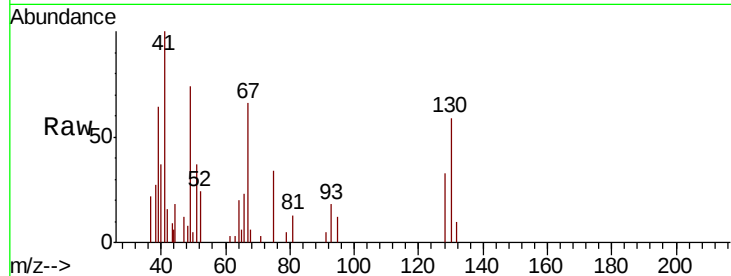
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ion	Ratio	Lower	Upper
3852	41	100		
	39	71.7	110.2	165.2#
	67	97.4	0.0	0.0#
	52	39.8	0.0	0.0#

Manual Integrations
APPROVED

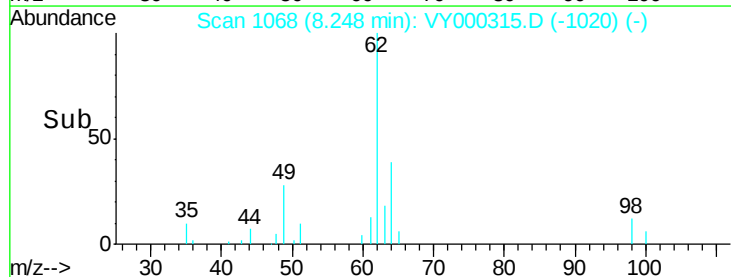
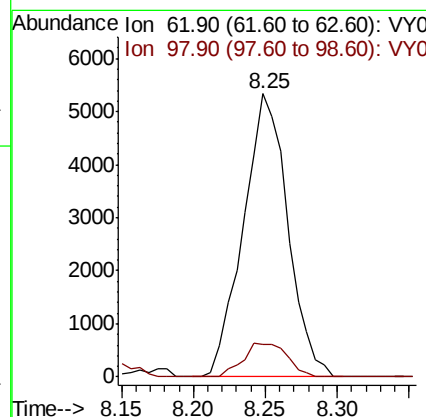
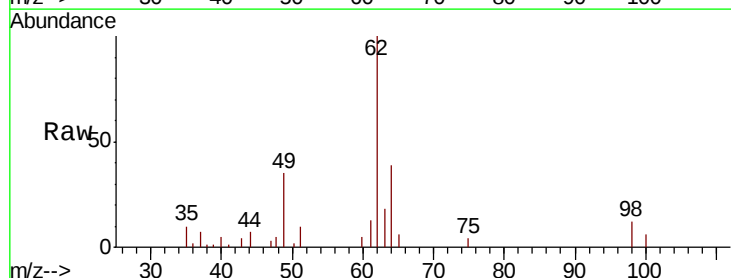
MMDadoda

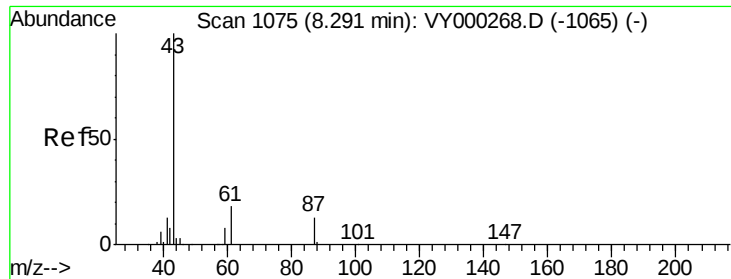
10/18/2019 12:40:22 AM



#42
1,2-Dichloroethane
Concen: 2.827 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion	Ion	Ratio	Lower	Upper
11403	62	100		
	98	11.8	0.0	20.6





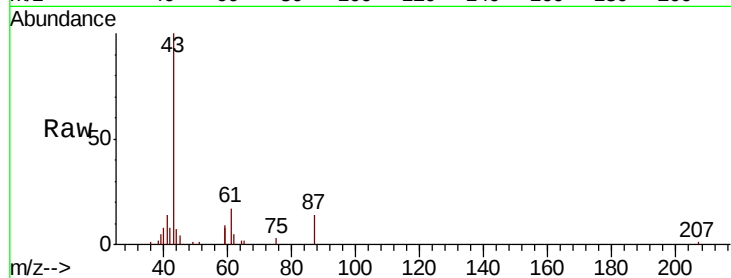
#43
Isopropyl Acetate
Concen: 2.772 ug/l
RT: 8.28 min Scan# 1074
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

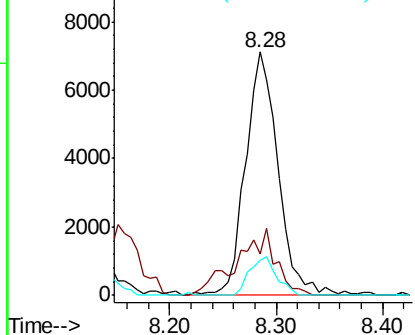
Tot Ion:	43	Resp:	15252
Ion Ratio	Lower	Upper	
43	100		
61	32.5	22.3	33.5
87	13.2	10.9	16.3

Manual Integrations
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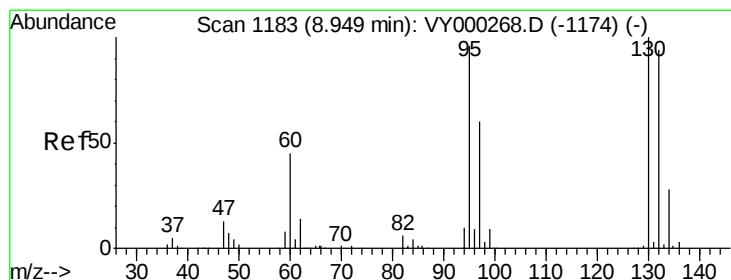
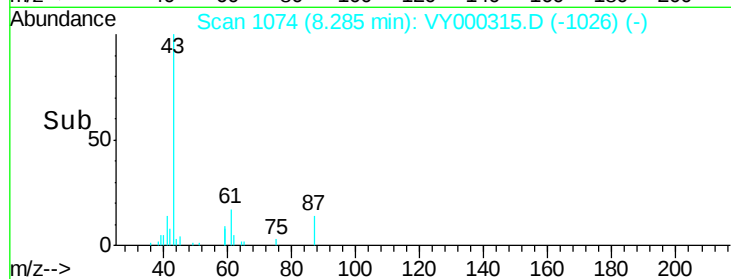
MM Dadoda



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 87.00 (86.70 to 87.70): VY0

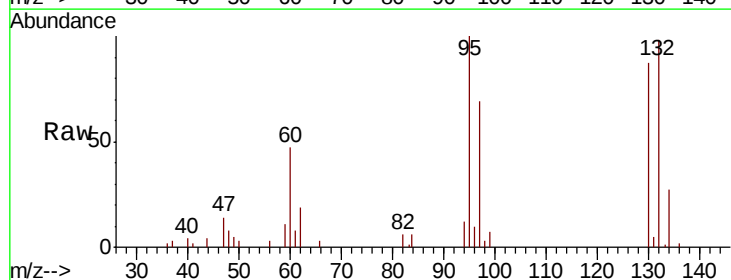


10/18/2019 12:40:22 AM

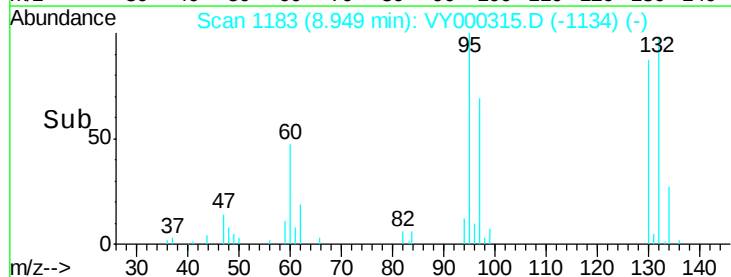
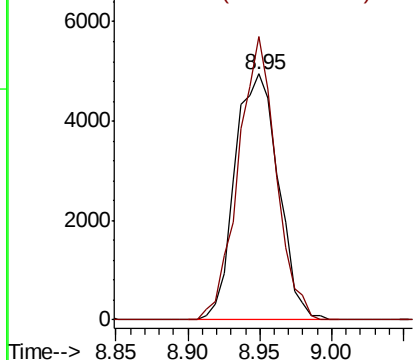


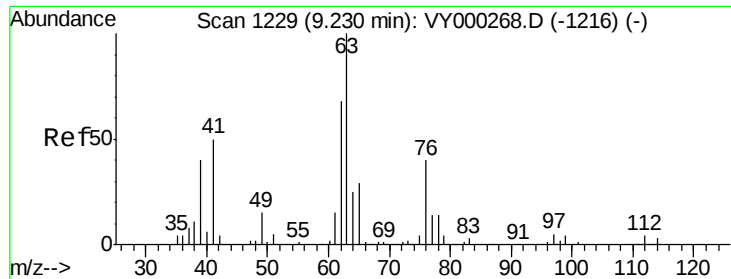
#44
Trichloroethene
Concen: 2.628 ug/l
RT: 8.95 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion:	130	Resp:	10413
Ion Ratio	Lower	Upper	
130	100		
95	115.0	0.0	191.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VY0





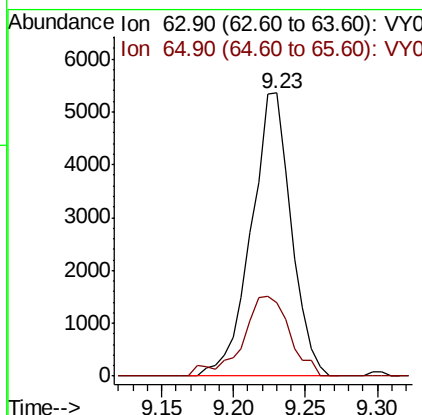
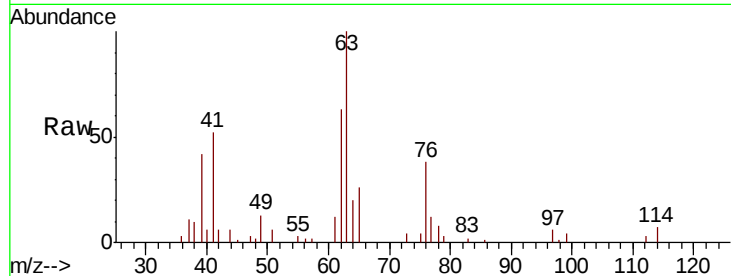
#45
 1,2-Dichloropropane
 Concen: 2.970 ug/l
 RT: 9.23 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

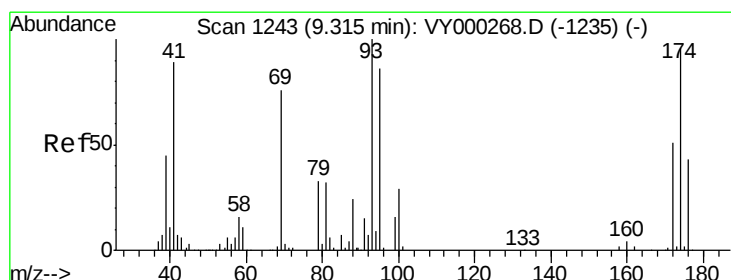
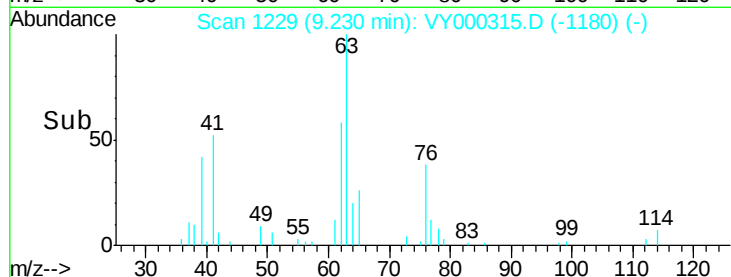
Tot Ion: 63 Resp: 10293
 Ion Ratio Lower Upper
 63 100
 65 25.8 23.2 34.8

Manual Integrations
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MMDadoda

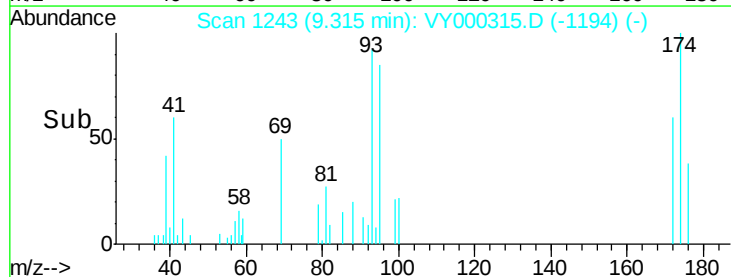
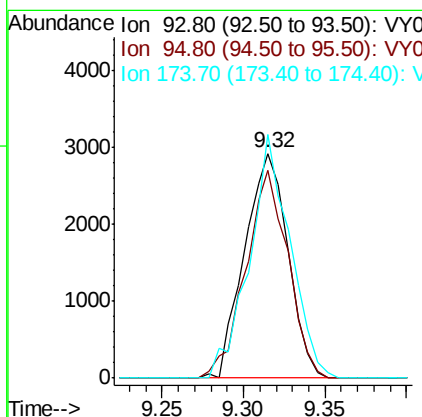
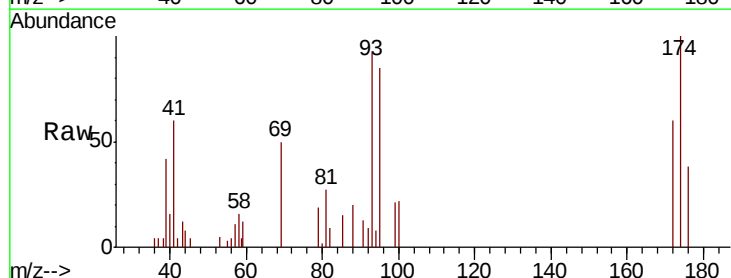


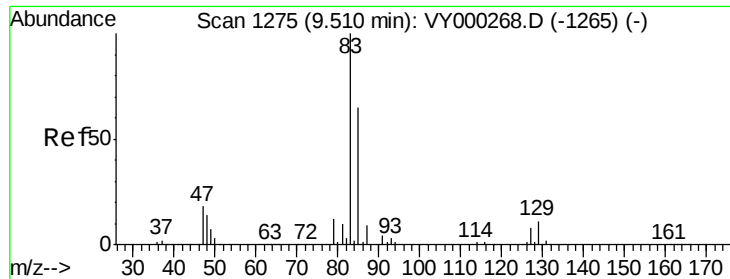
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#46
 Dibromomethane
 Concen: 2.785 ug/l
 RT: 9.32 min Scan# 1243
 Delta R.T. 0.00 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion: 93 Resp: 5396
 Ion Ratio Lower Upper
 93 100
 95 90.1 68.2 102.2
 174 101.8 79.8 119.6





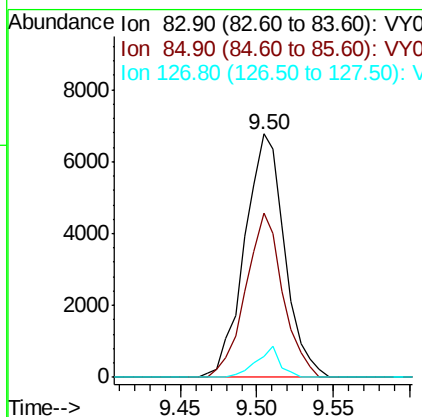
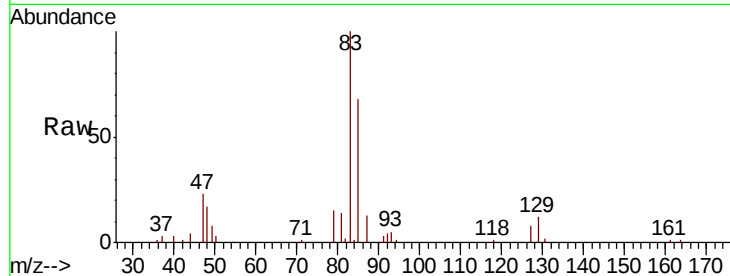
#47
 Bromodichloromethane
 Concen: 2.690 ug/l
 RT: 9.50 min Scan# 1274
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

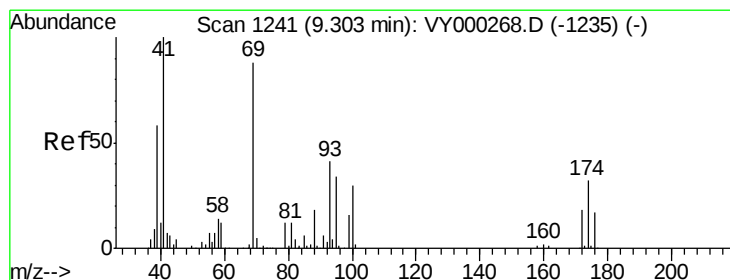
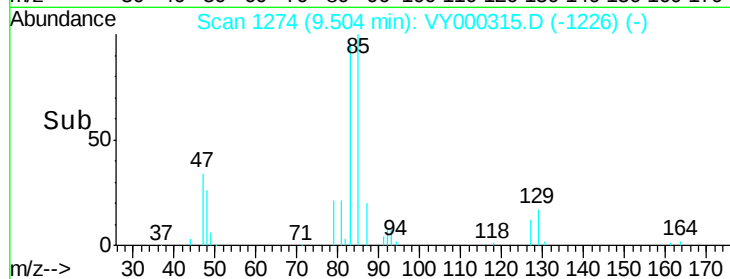
Tot Ion:	83	Resp:	12280
Ion	Ratio	Lower	Upper
83	100		
85	67.5	52.2	78.2
127	8.4	6.3	9.5

Manual Integrations
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MMDadoda

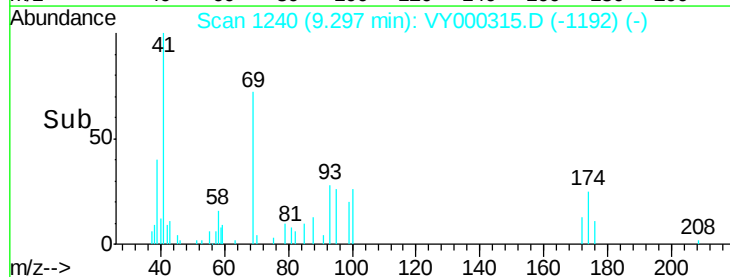
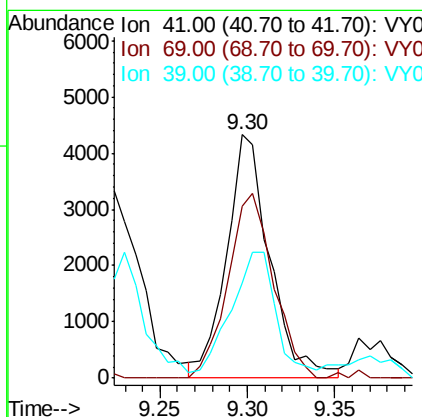
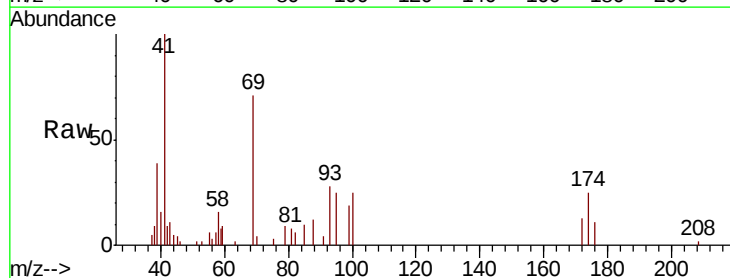


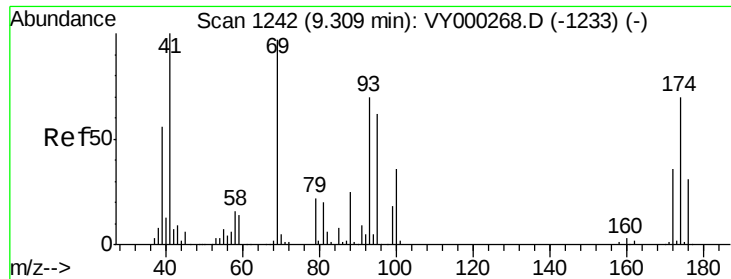
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#48
 Methyl methacrylate
 Concen: 3.090 ug/l
 RT: 9.30 min Scan# 1240
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion:	41	Resp:	7451
Ion	Ratio	Lower	Upper
41	100		
69	79.8	70.0	105.0
39	51.4	47.7	71.5





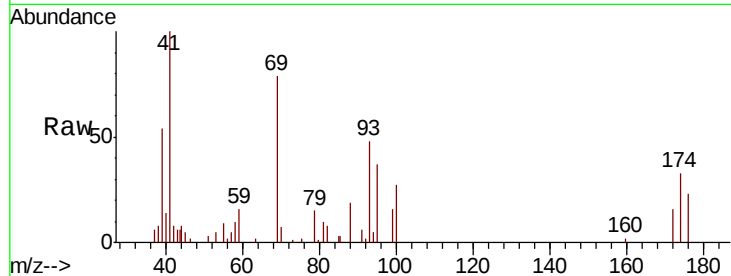
#49
1,4-Dioxane
Concen: 60.662 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	54.6	25.6	38.4#
58	72.0	54.6	81.8

Manual Integrations
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MMDadoda



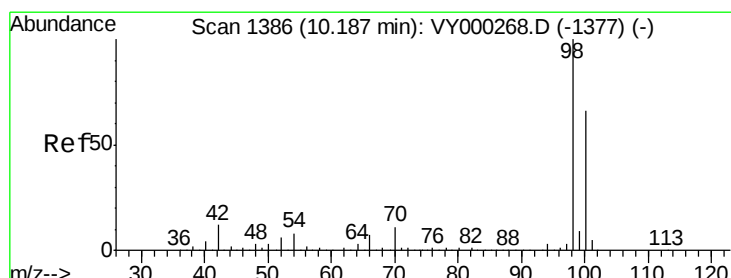
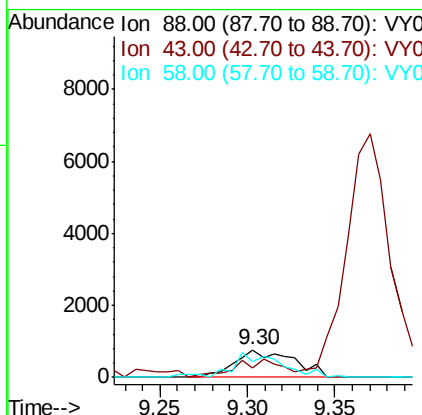
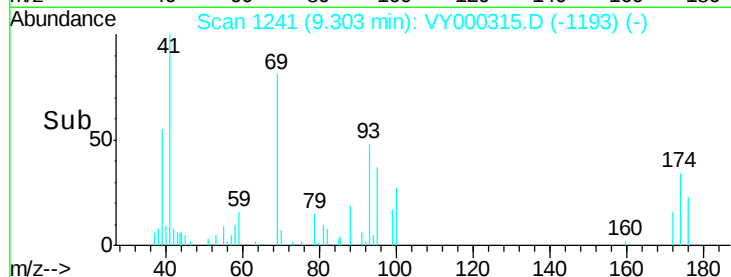
Abundance

Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

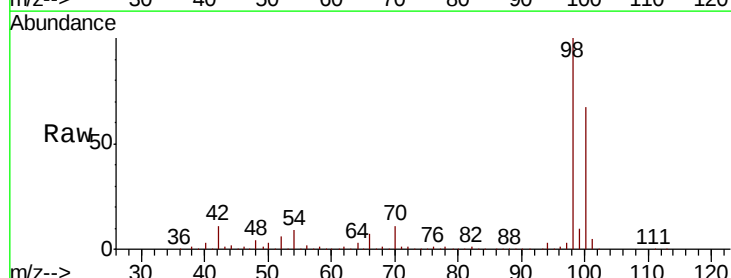
Ion 58.00 (57.70 to 58.70): VY0

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#50
Toluene-d8
Concen: 53.835 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

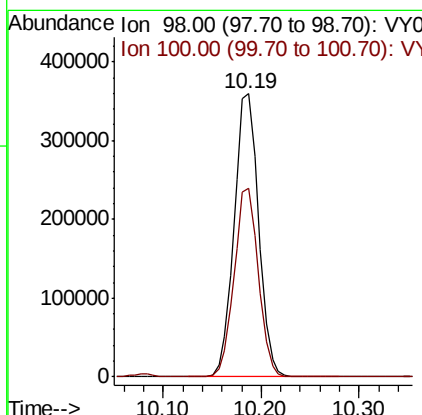
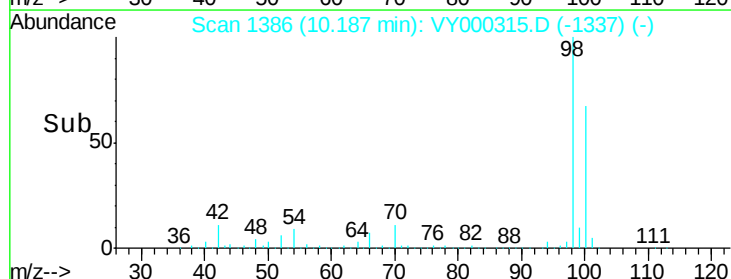
Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.8	79.2

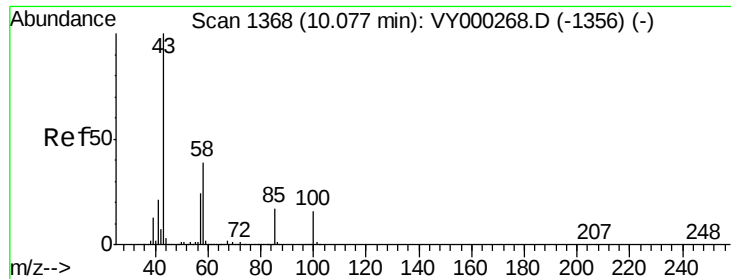


Abundance

Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 14.496 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 41132

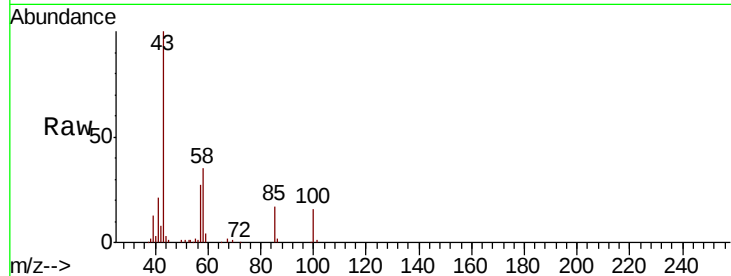
Ion Ratio Lower Upper

43 100

58 39.9 31.0 46.6

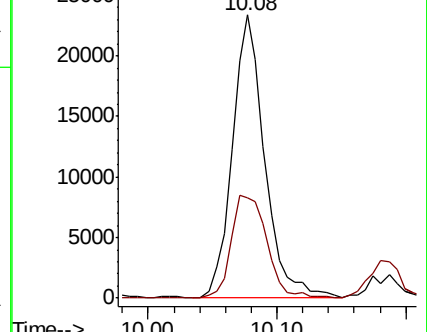
Manual Integrations
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MMDadoda

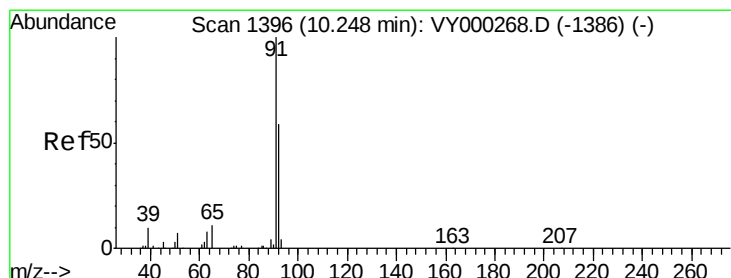
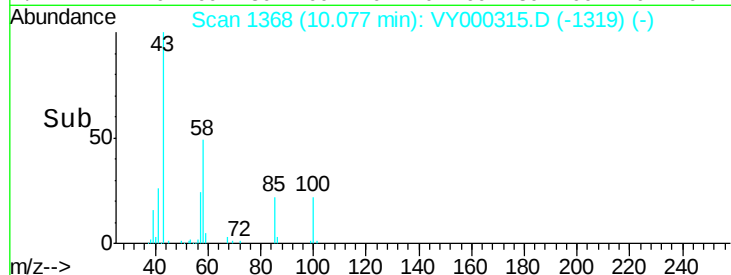


Abundance Ion 43.00 (42.70 to 43.70): VY000315.D (-1319) (-)

Ion 58.00 (57.70 to 58.70): VY000315.D (-1319) (-)



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#52

Toluene

Concen: 2.834 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.00 min

Lab File: VY000315.D

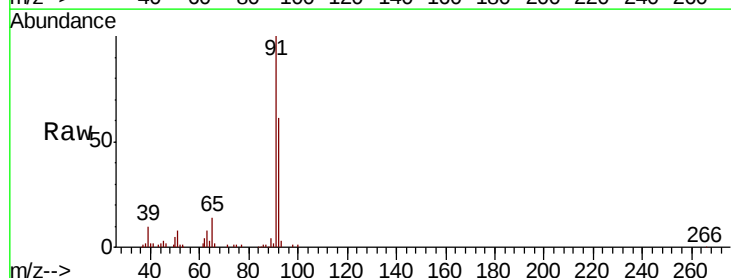
Acq: 15 Oct 2019 13:17

Tgt Ion: 92 Resp: 25408

Ion Ratio Lower Upper

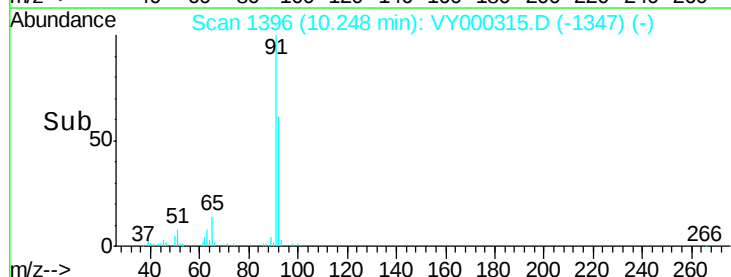
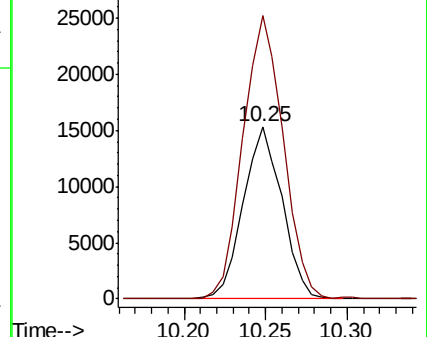
92 100

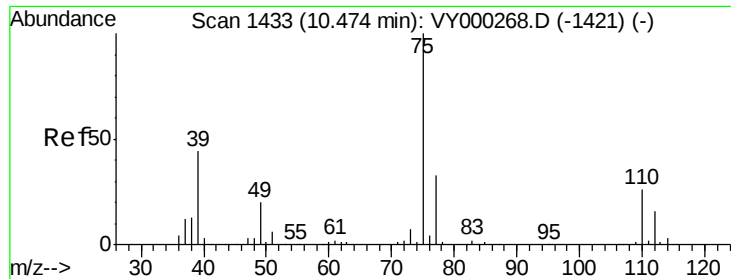
91 170.8 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VY000315.D (-1347) (-)

Ion 91.00 (90.70 to 91.70): VY000315.D (-1347) (-)





#53
 t-1,3-Dichloropropene
 Concen: 2.776 ug/l
 RT: 10.47 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

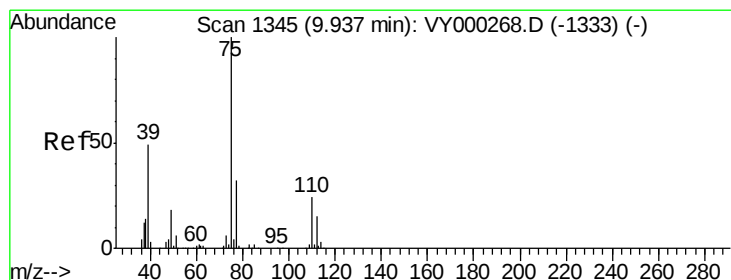
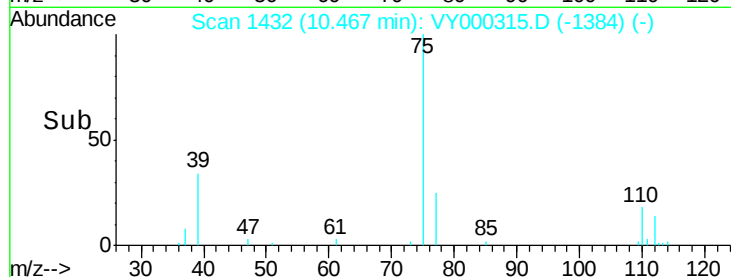
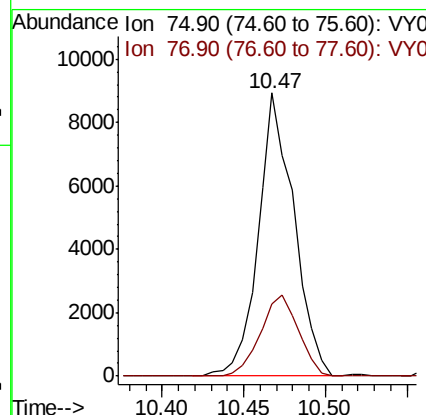
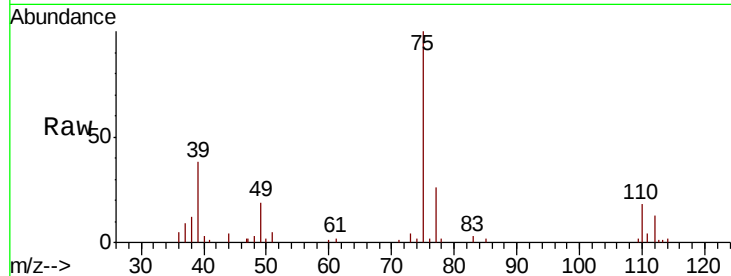
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 75 Resp: 13580
 Ion Ratio Lower Upper
 75 100
 77 25.5 26.0 39.0#

Manual Integrations
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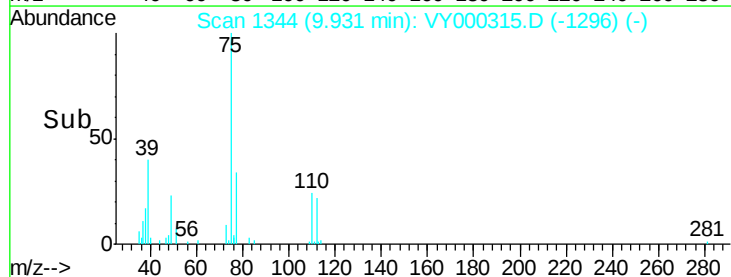
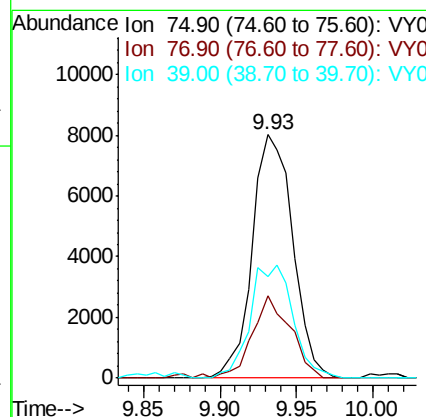
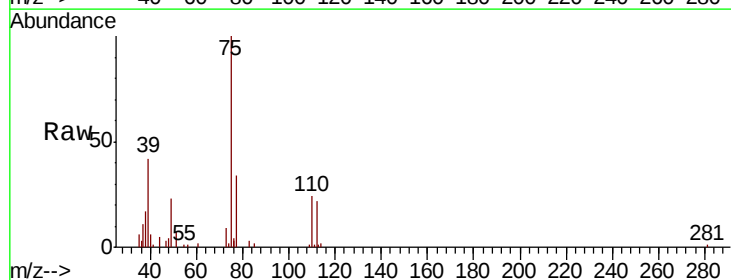
MMDadoda

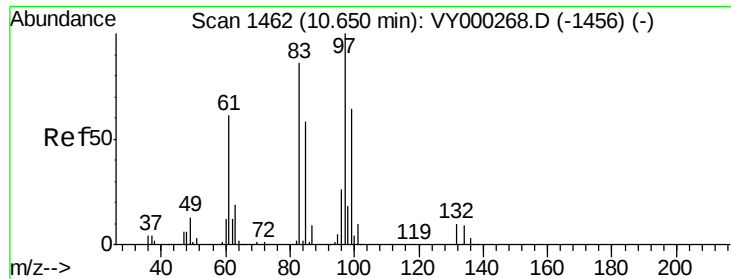
10/18/2019 12:40:22 AM



#54
 cis-1,3-Dichloropropene
 Concen: 2.667 ug/l
 RT: 9.93 min Scan# 1344
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion: 75 Resp: 14818
 Ion Ratio Lower Upper
 75 100
 77 33.8 26.0 39.0
 39 41.7 38.8 58.2





#55
 1,1,2-Trichloroethane
 Concen: 2.700 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

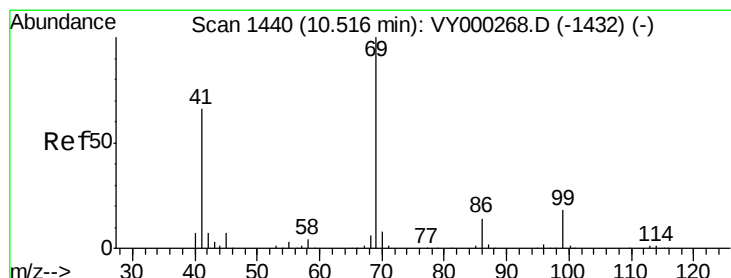
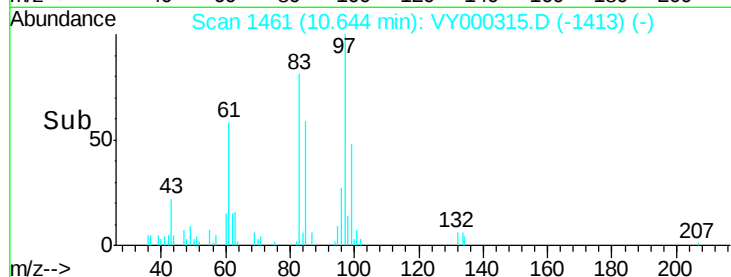
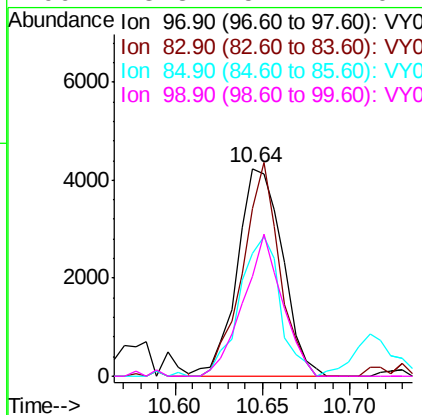
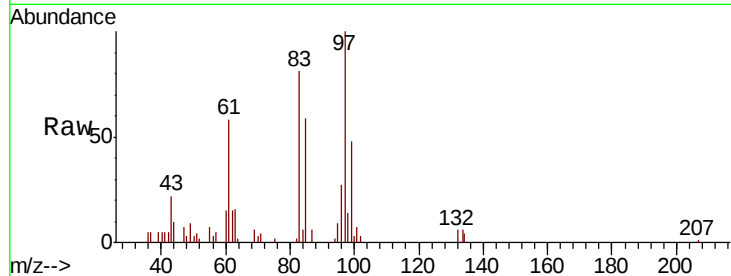
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	97	Resp:	7605
Ion	Ratio	Lower	Upper
97	100		
83	80.5	69.0	103.6
85	59.1	46.2	69.4
99	48.3	51.1	76.7#

Manual Integrations
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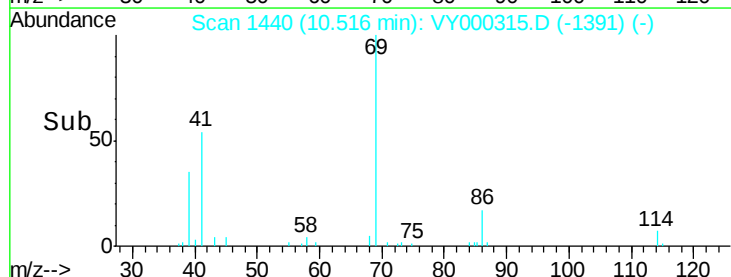
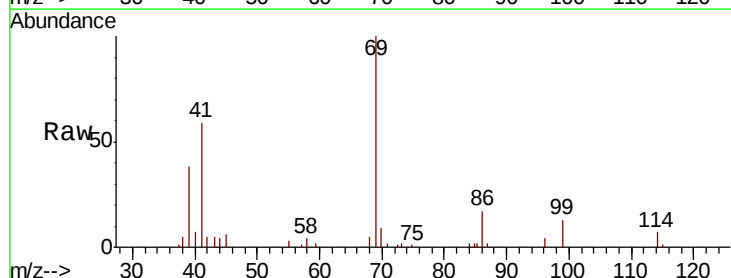
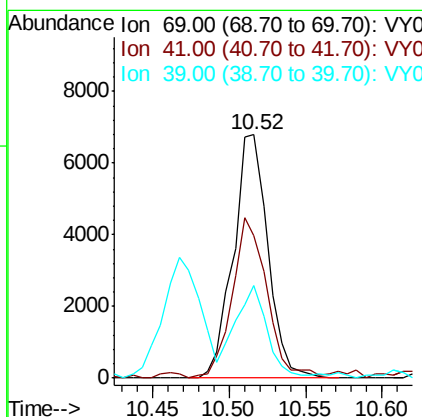
MMDadoda

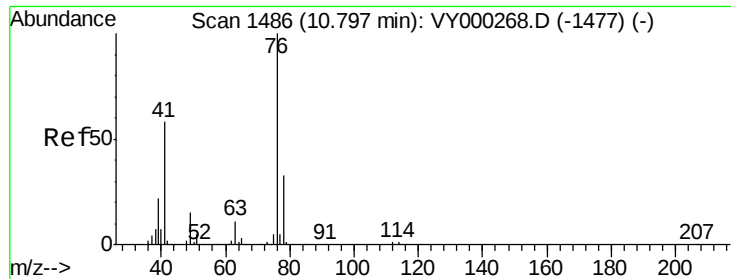
10/18/2019 12:40:22 AM



#56
 Ethyl methacrylate
 Concen: 2.658 ug/l
 RT: 10.52 min Scan# 1440
 Delta R.T. 0.00 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion:	69	Resp:	10672
Ion	Ratio	Lower	Upper
69	100		
41	66.1	52.5	78.7
39	35.3	26.7	40.1





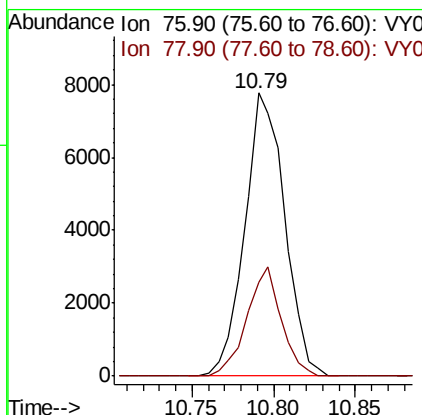
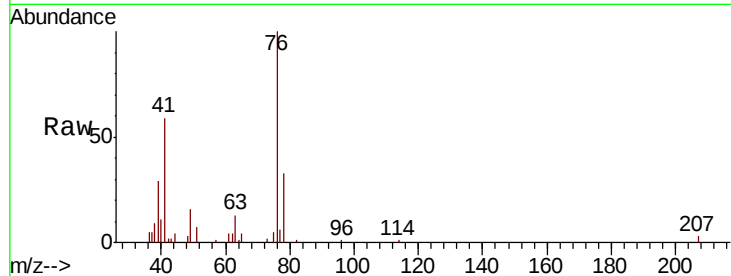
#57
 1,3-Dichloropropane
 Concen: 2.727 ug/l
 RT: 10.79 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

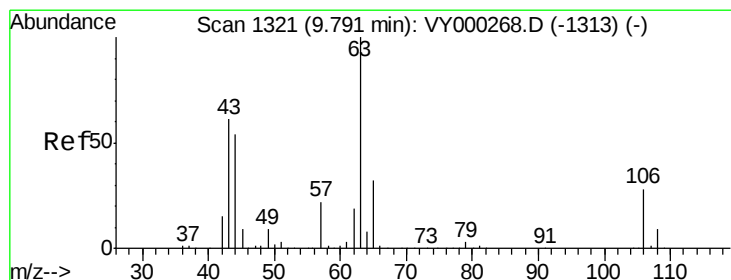
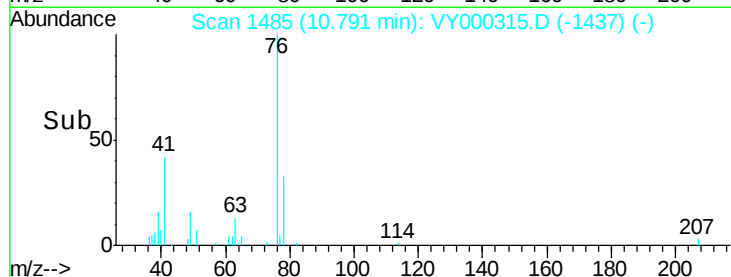
Tot Ion	Ratio	Lower	Upper
76	100		
78	33.4	26.2	39.2

Manual Integrations
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MMDadoda

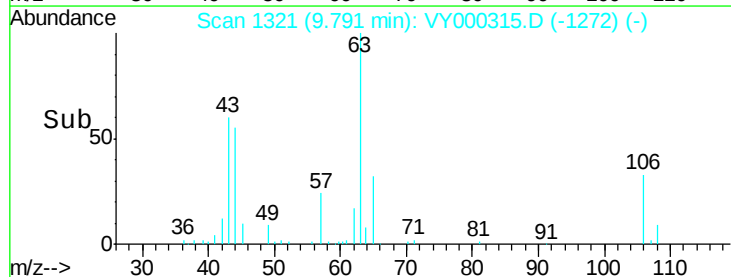
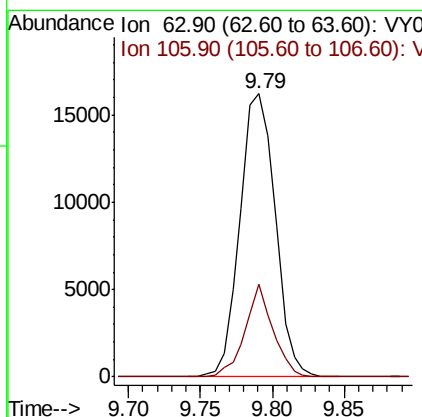
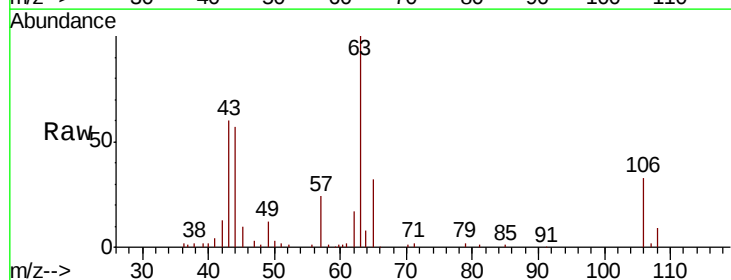


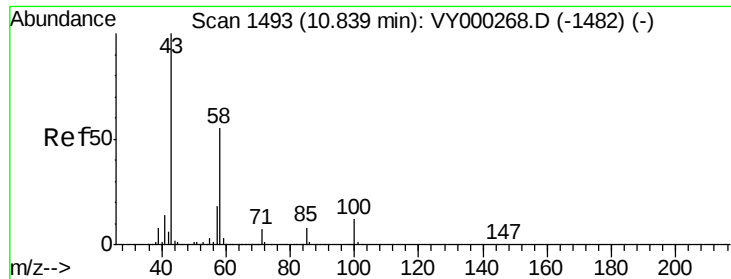
10/18/2019 12:40:22 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 17.237 ug/l
 RT: 9.79 min Scan# 1321
 Delta R.T. 0.00 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.6	23.0	34.4





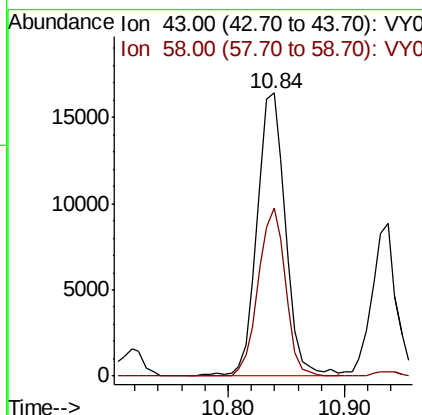
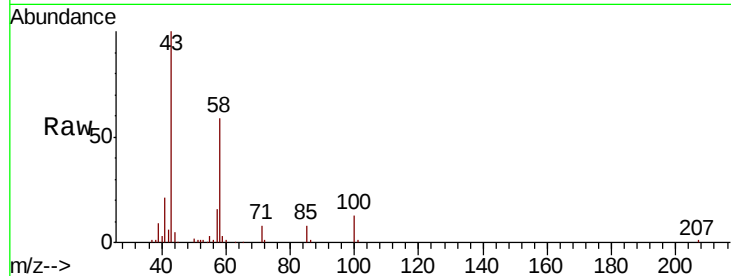
#59
2-Hexanone
Concen: 14.075 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

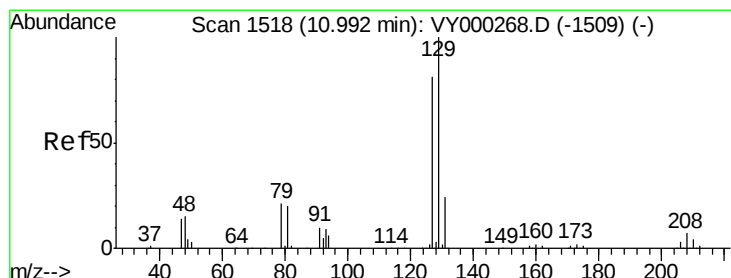
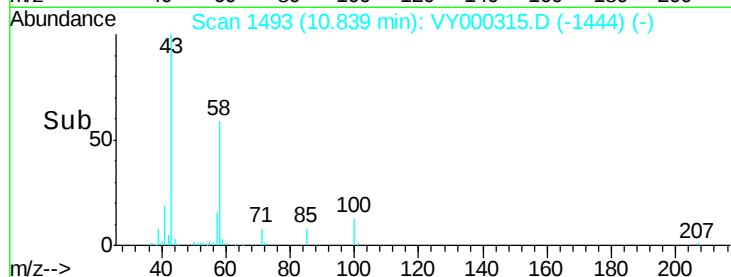
Tot Ion: 43 Resp: 28033
Ion Ratio Lower Upper
43 100
58 56.5 27.7 83.1

Manual Integrations
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MMDadoda

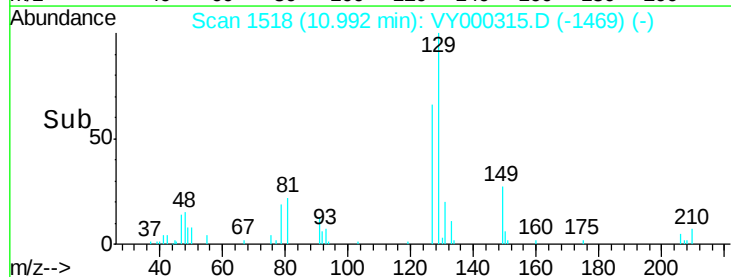
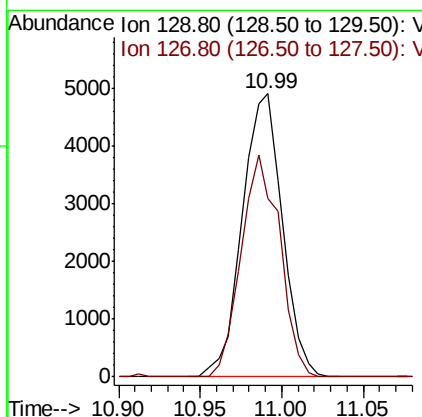
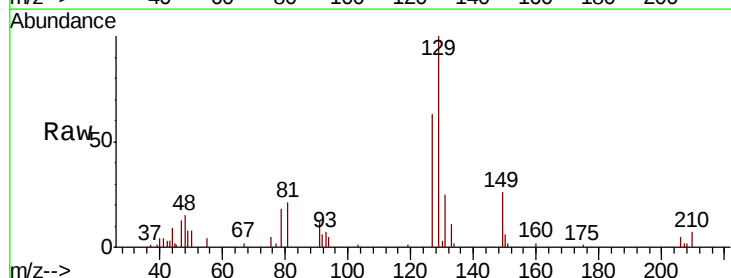


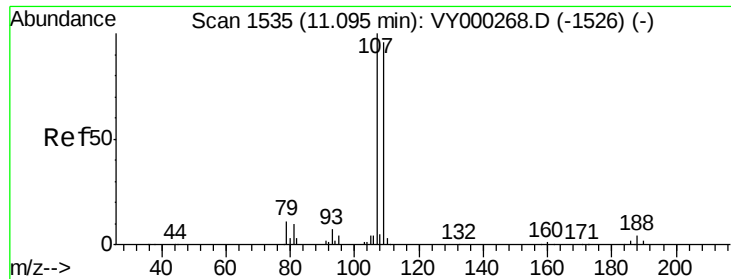
10/18/2019 12:40:22 AM



#60
Dibromochloromethane
Concen: 2.686 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 129 Resp: 8386
Ion Ratio Lower Upper
129 100
127 75.5 39.9 119.7





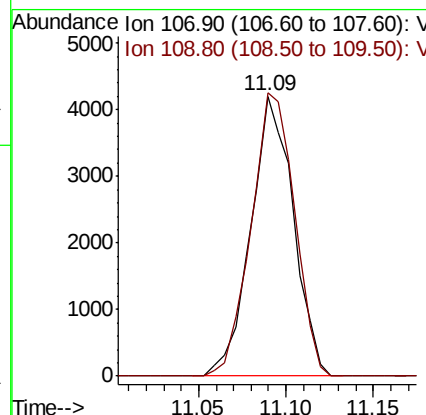
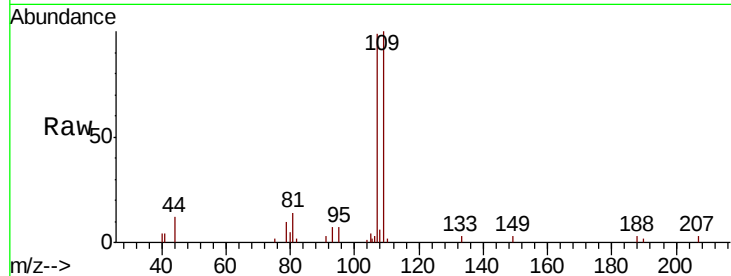
#61
 1,2-Dibromoethane
 Concen: 2.623 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

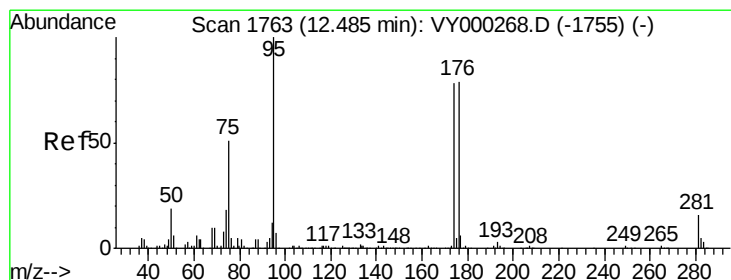
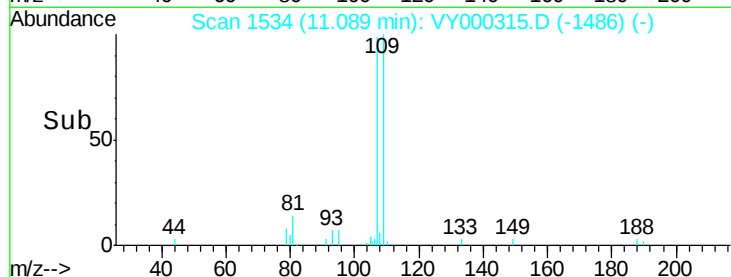
Tot Ion	Ratio	Lower	Upper
107	100		
109	103.6	75.1	112.7

Manual Integrations
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MM Dadoda

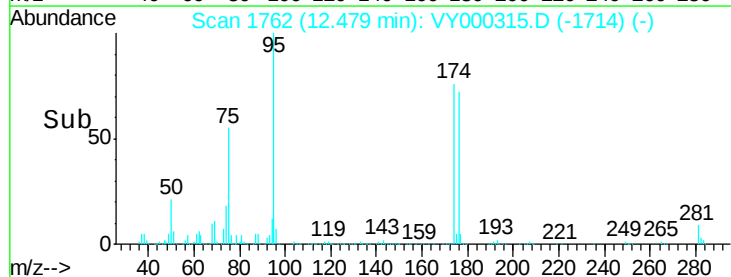
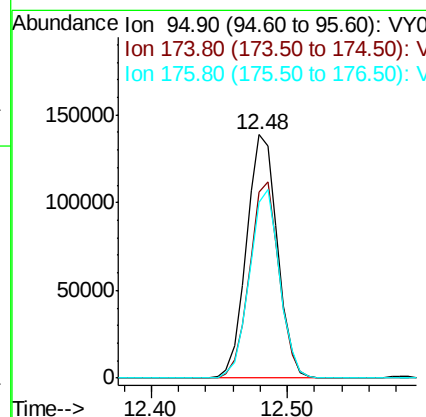
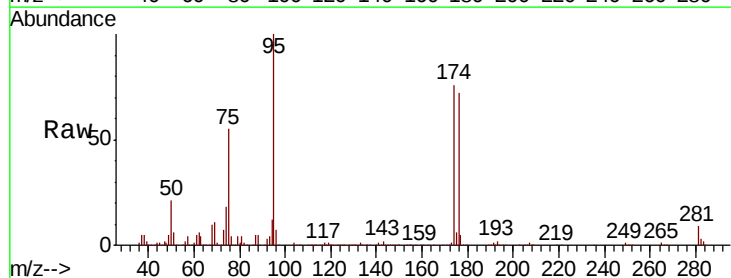


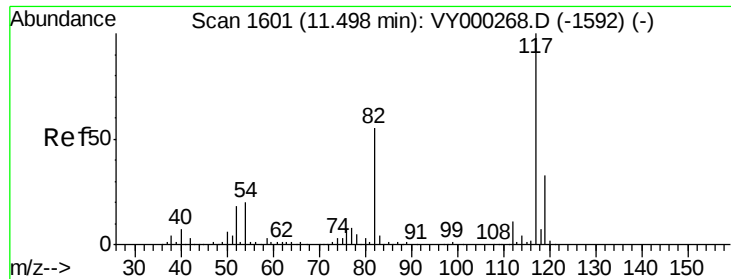
10/18/2019 12:40:22 AM



#62
 4-Bromofluorobenzene
 Concen: 50.161 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.4	0.0	159.6
176	75.1	0.0	153.8





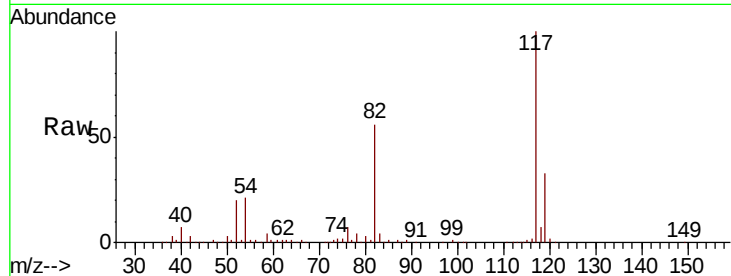
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	43.7	65.5
119	33.0	26.6	39.8

Manual Integrations
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MMDadoda

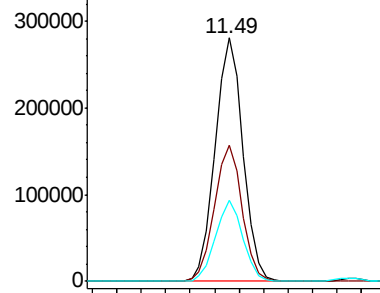


Abundance

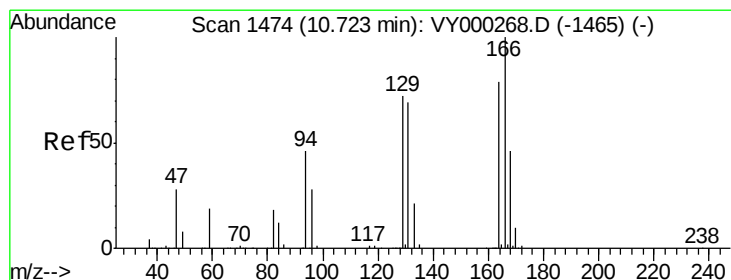
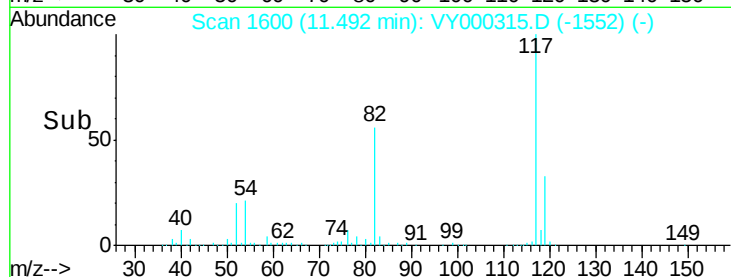
Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): V



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#64
Tetrachloroethene
Concen: 2.845 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	143.0	100.6	151.0
129	94.3	72.8	109.2
131	95.9	69.4	104.2

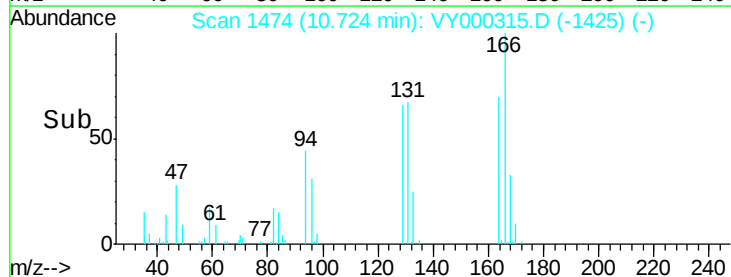
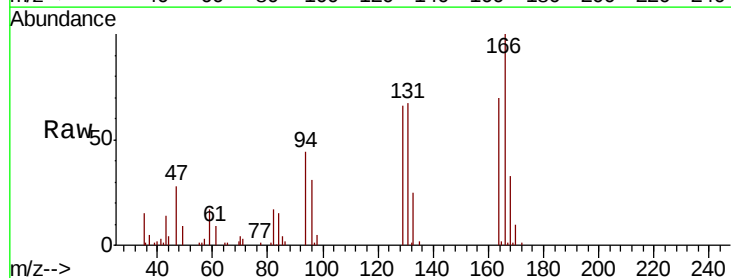
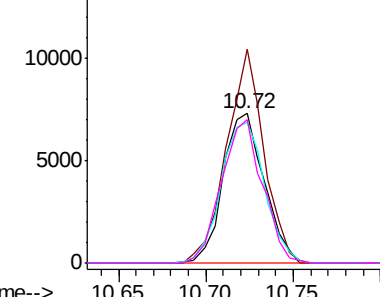
Abundance

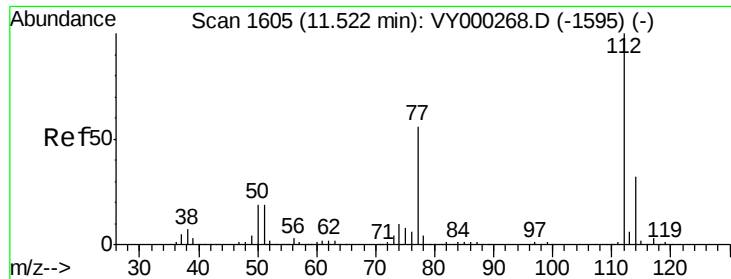
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





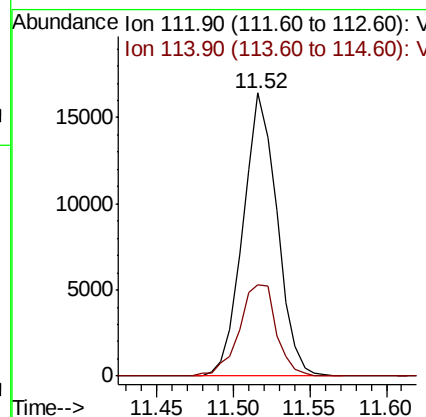
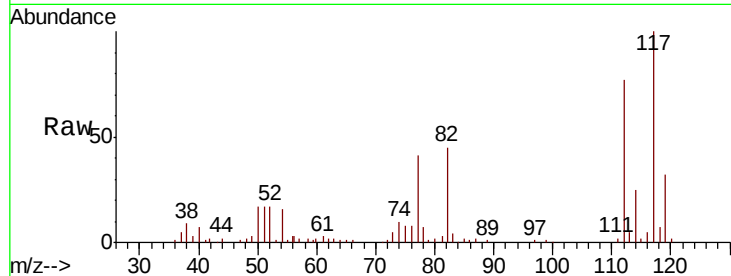
#65
Chlorobenzene
Concen: 2.727 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

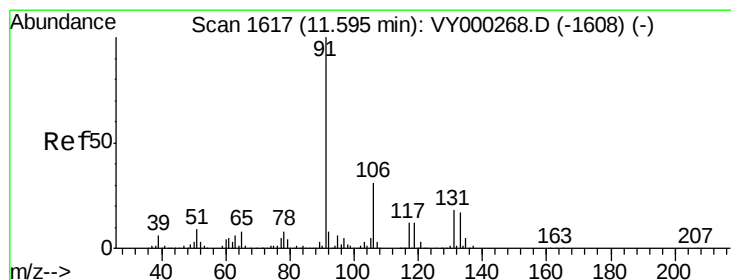
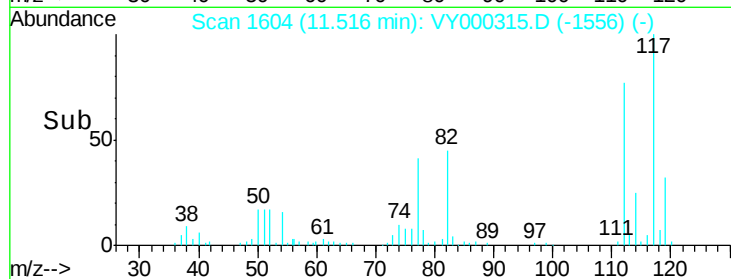
Tot Ion:112 Resp: 25446
Ion Ratio Lower Upper
112 100
114 32.3 25.7 38.5

Manual Integrations
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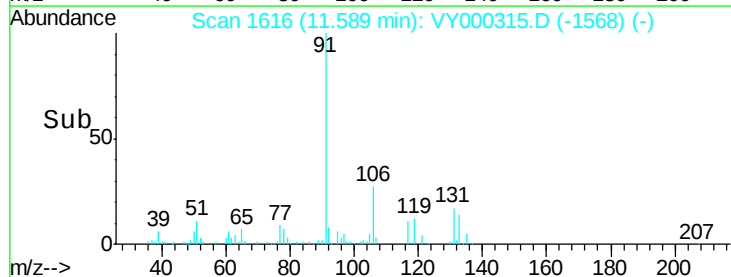
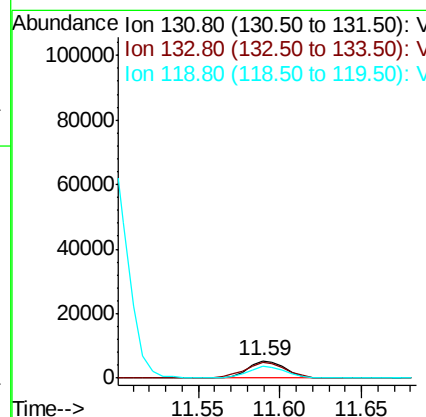
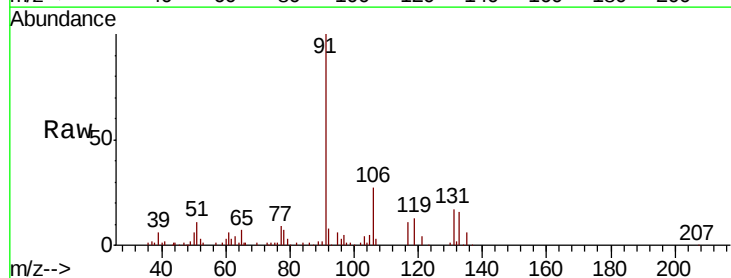


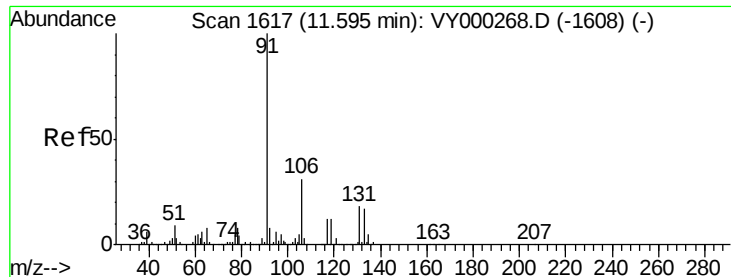
10/18/2019 12:40:22 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 2.534 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion:131 Resp: 8307
Ion Ratio Lower Upper
131 100
133 102.4 47.2 141.6
119 72.5 32.6 98.0





#67

Ethyl Benzene

Concen: 2.840 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 49124

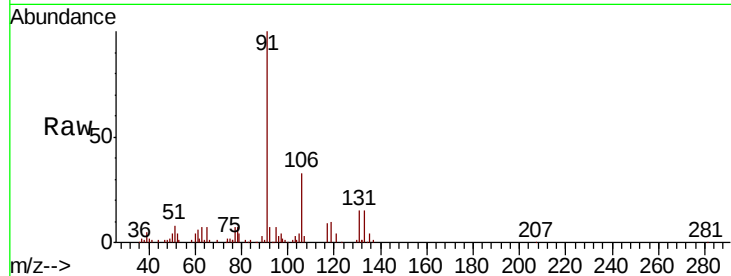
Ion Ratio Lower Upper

91 100

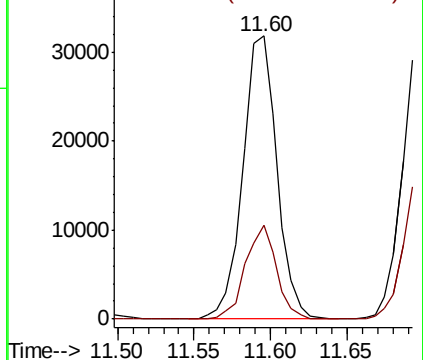
106 33.2 25.0 37.6

Manual Integrations
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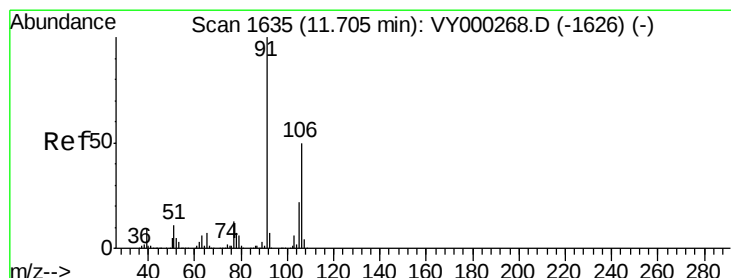
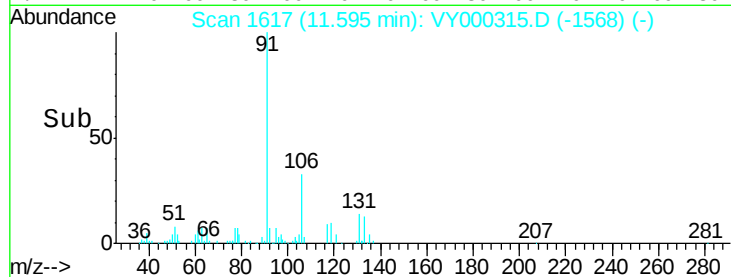
MMDadoda



Abundance Ion 91.00 (90.70 to 91.70): VY000315.D (-1568) (-)



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#68

m/p-Xylenes

Concen: 5.471 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VY000315.D

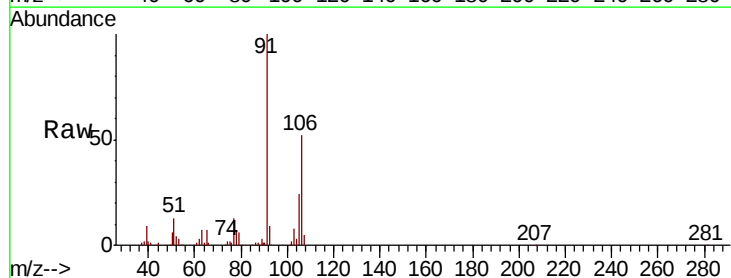
Acq: 15 Oct 2019 13:17

Tgt Ion: 106 Resp: 36176

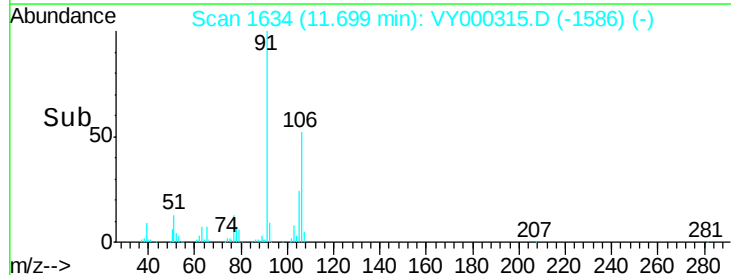
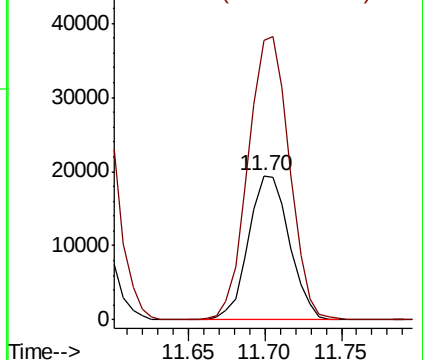
Ion Ratio Lower Upper

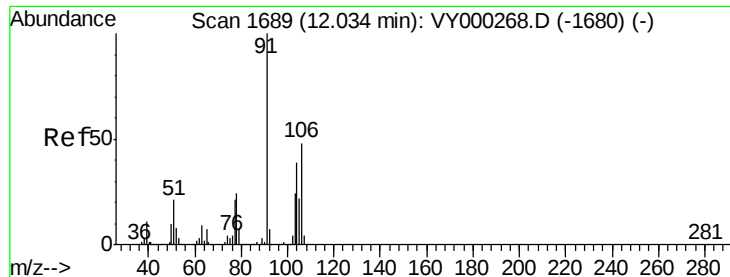
106 100

91 199.4 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): VY000315.D (-1586) (-)





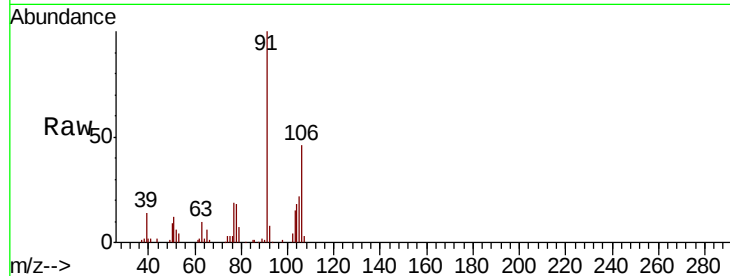
#69
o-Xylene
Concen: 2.563 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

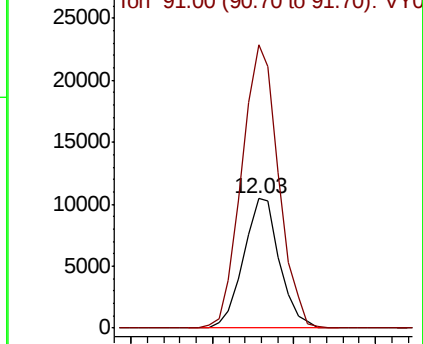
Tot Ion:106 Resp: 16169
Ion Ratio Lower Upper
106 100
91 222.2 104.7 313.9

Manual Integrations
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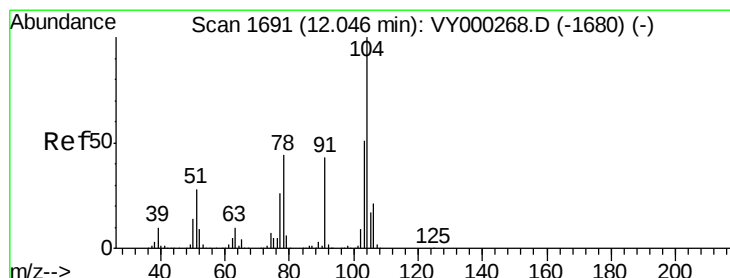
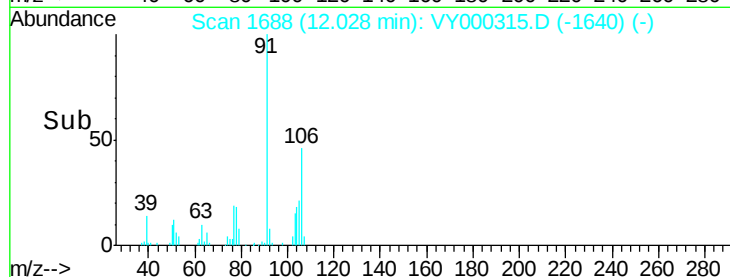
MMDadoda



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

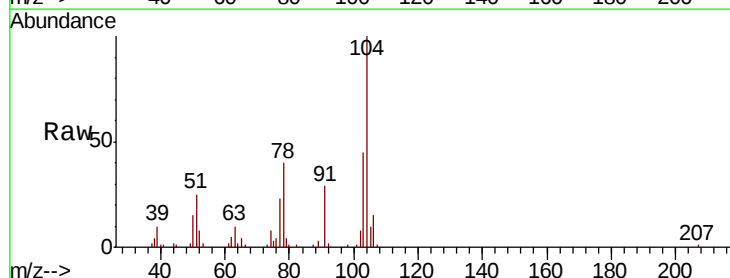


10/18/2019 12:40:22 AM

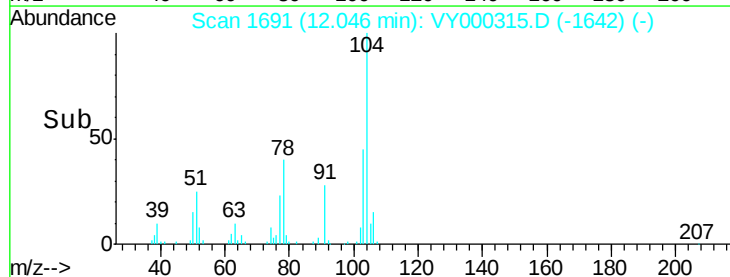
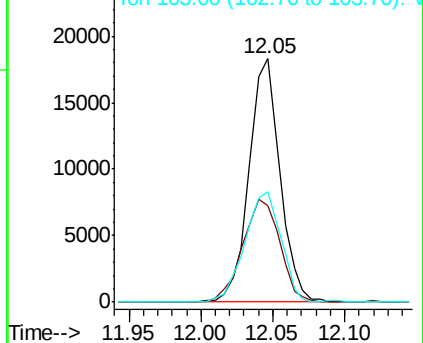


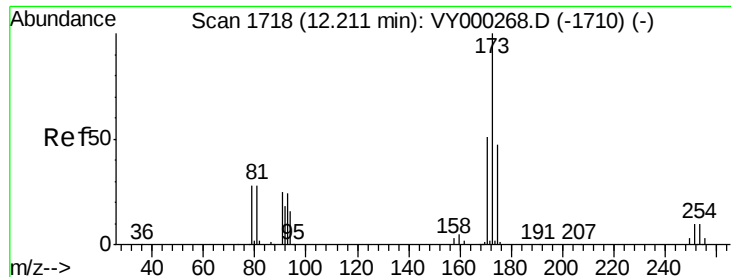
#70
Styrene
Concen: 2.559 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion:104 Resp: 27221
Ion Ratio Lower Upper
104 100
78 50.7 39.0 58.6
103 52.9 43.1 64.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VY0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 2.502 ug/l

RT: 12.20 min Scan# 1717

Delta R.T. -0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

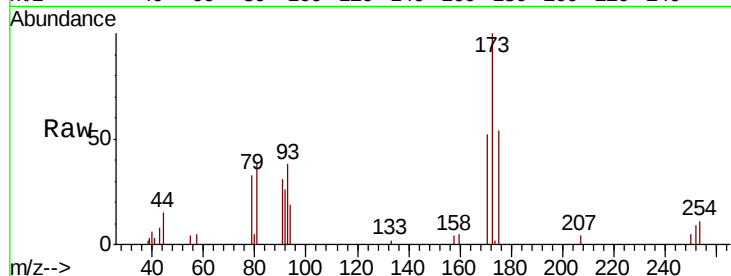
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

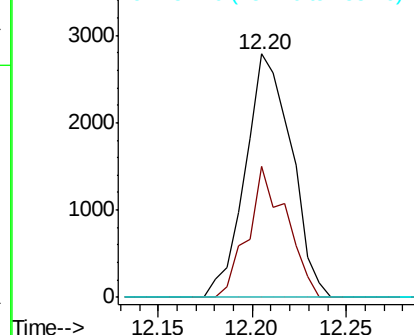
Tot Ion:	173	Resp:	4714
Ion Ratio	Lower	Upper	
173	100		
175	45.1	24.6	73.6
254	0.0	0.1	0.1#

Manual Integrations
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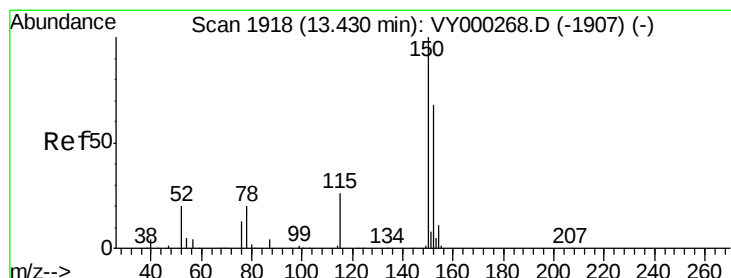
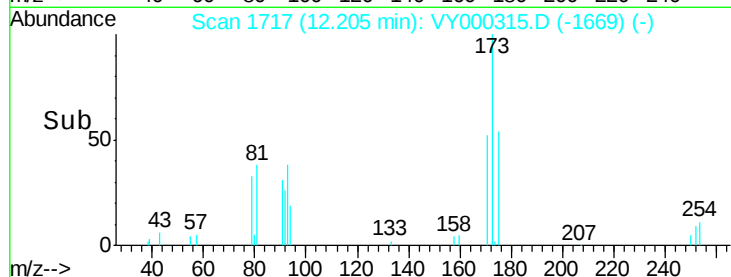
MMDadoda



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

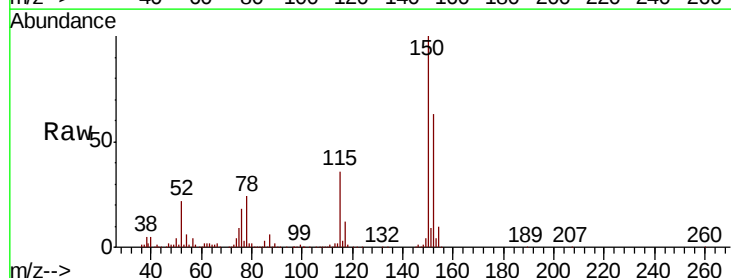
RT: 13.42 min Scan# 1917

Delta R.T. -0.01 min

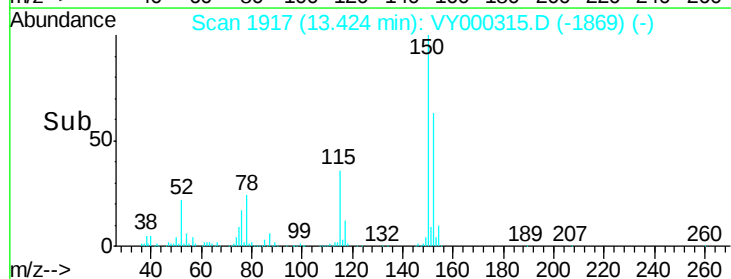
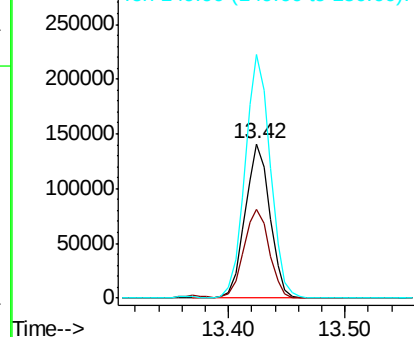
Lab File: VY000315.D

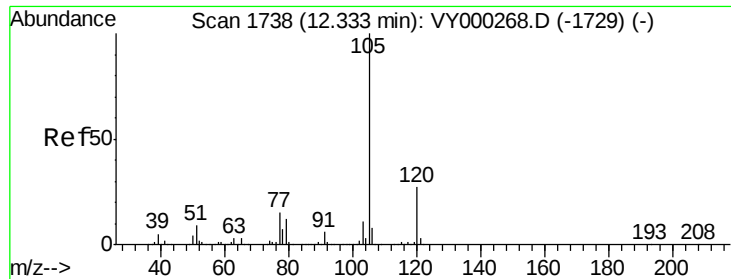
Acq: 15 Oct 2019 13:17

Tgt Ion:	152	Resp:	209200
Ion Ratio	Lower	Upper	
152	100		
115	59.0	29.3	88.0
150	160.1	0.0	348.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





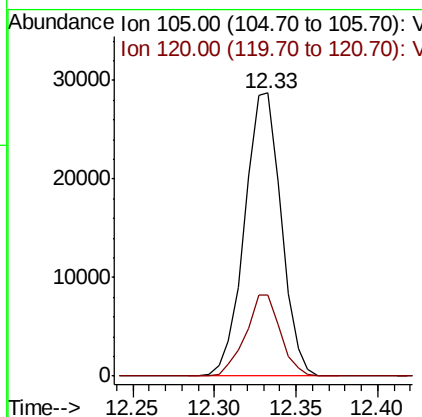
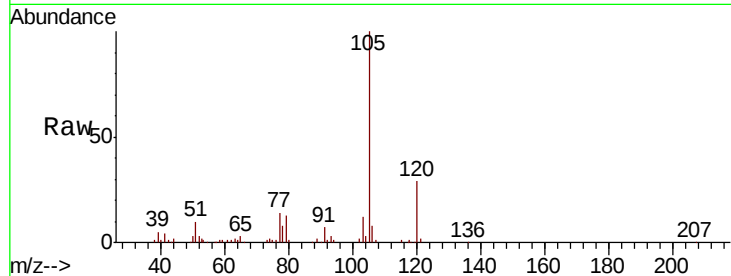
#73
Isopropylbenzene
Concen: 2.764 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

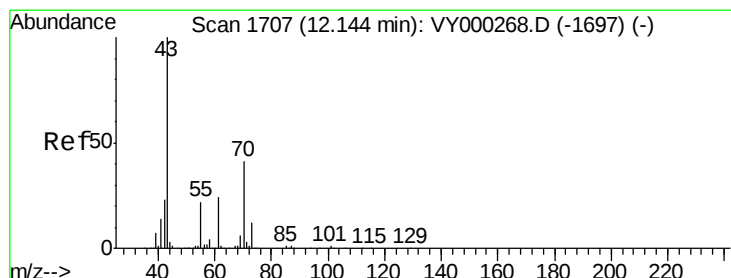
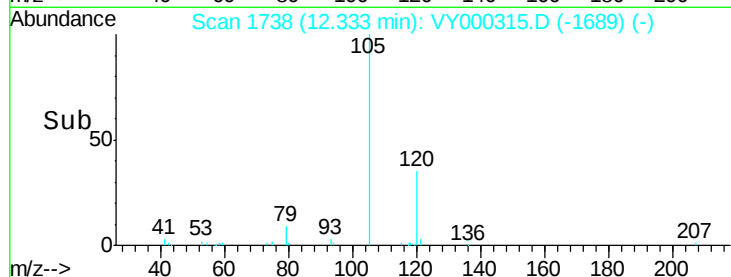
Tot Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.4	40.2

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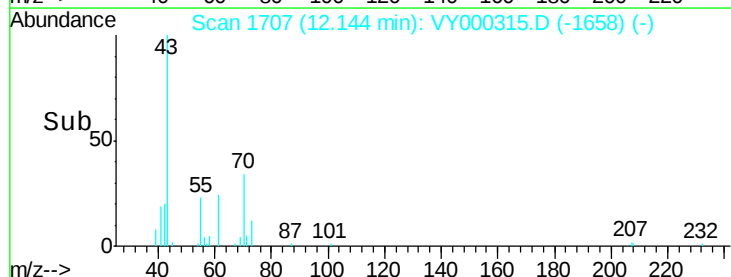
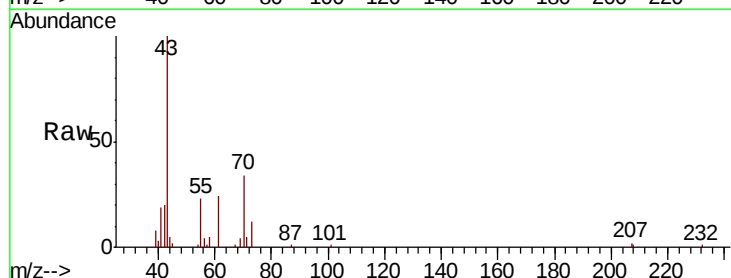
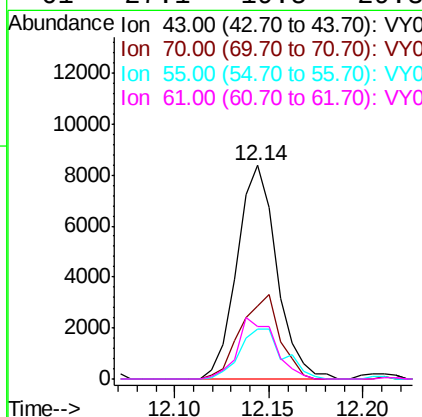


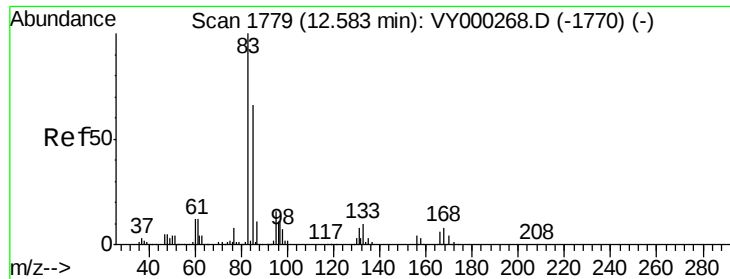
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#74
N-ethyl acetate
Concen: 3.068 ug/l
RT: 12.14 min Scan# 1707
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
70	38.8	32.9	49.3
55	25.7	17.8	26.6
61	27.1	19.5	29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 2.783 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

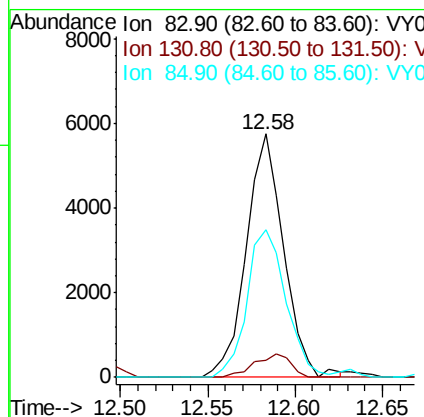
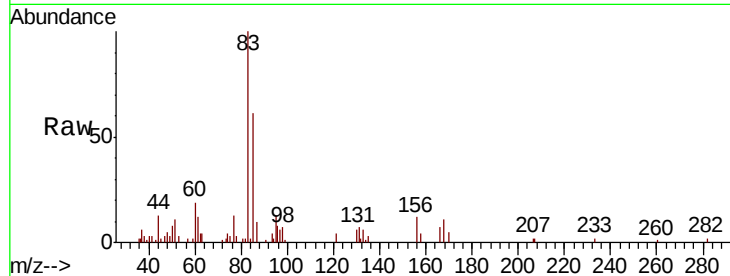
ClientSampleId :

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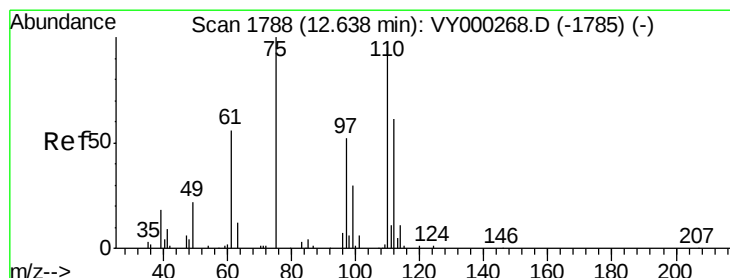
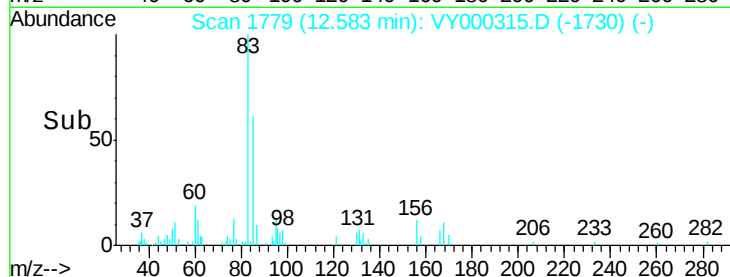
Tot Ion:	83	Resp:	8524
Ion Ratio	Lower	Upper	
83	100		
131	9.1	5.3	16.1
85	63.4	32.9	98.7

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#76

1,2,3-Trichloropropane

Concen: 2.652 ug/l m

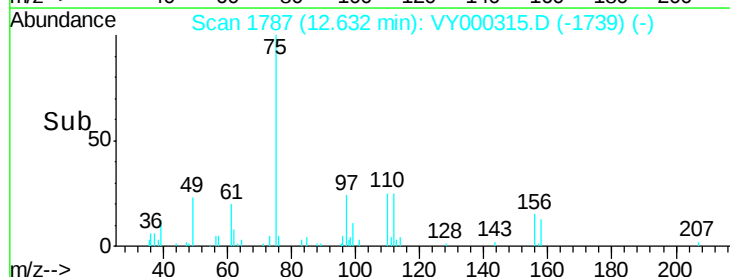
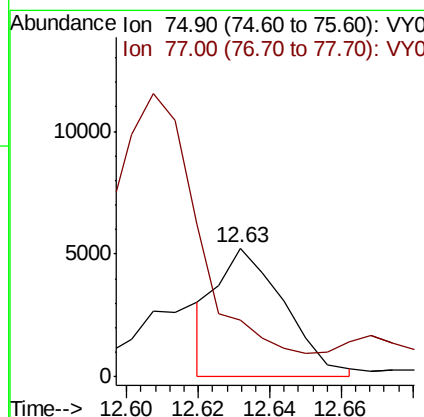
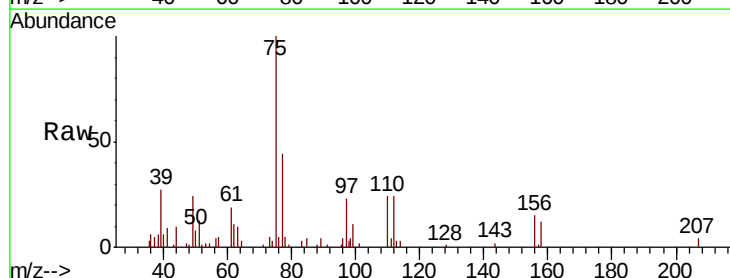
RT: 12.63 min Scan# 1787

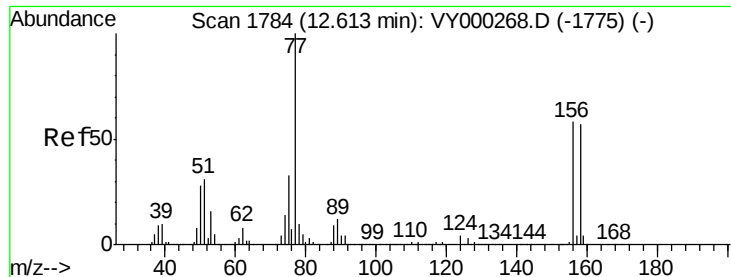
Delta R.T. -0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tgt Ion:	75	Resp:	6821
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 3.015 ug/l

RT: 12.61 min Scan# 1783

Delta R.T. -0.01 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:156 Resp: 10945

Ion Ratio Lower Upper

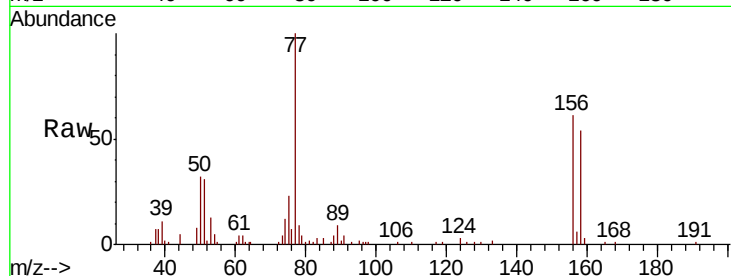
156 100

77 191.1 101.0 302.9

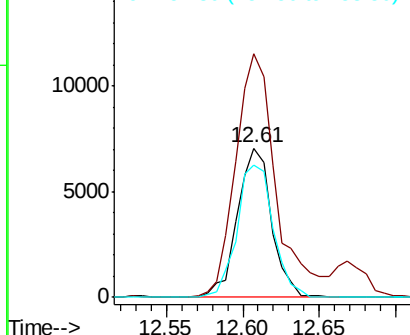
158 94.2 49.7 149.1

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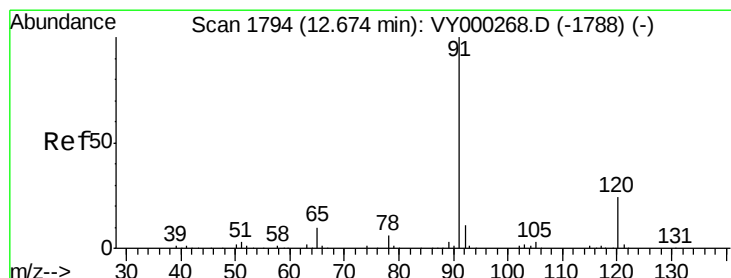
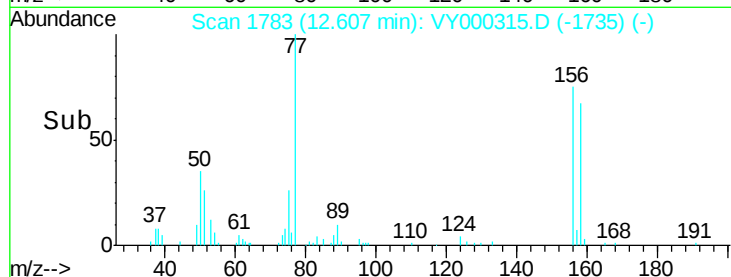
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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VY0
Ion 157.80 (157.50 to 158.50): V



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#78

n-propylbenzene

Concen: 2.792 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. 0.00 min

Lab File: VY000315.D

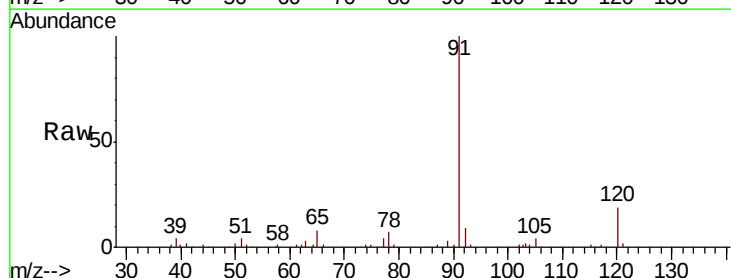
Acq: 15 Oct 2019 13:17

Tgt Ion: 91 Resp: 54685

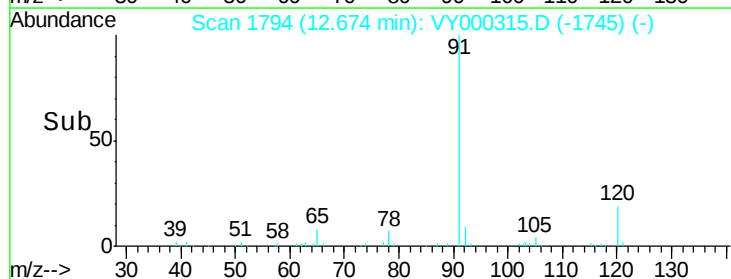
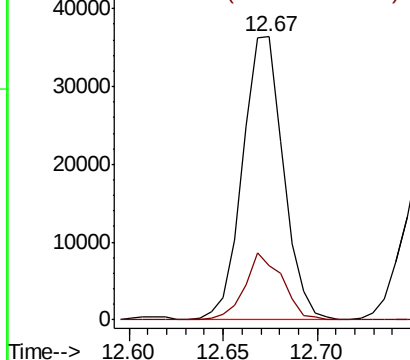
Ion Ratio Lower Upper

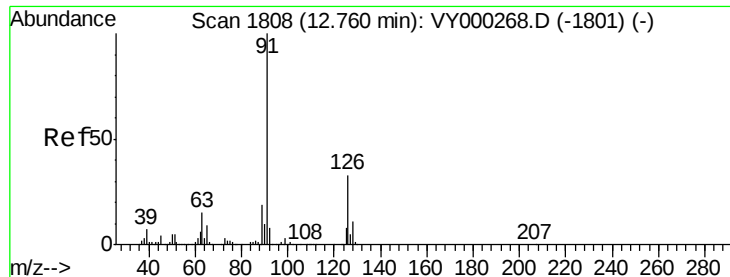
91 100

120 21.9 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 120.00 (119.70 to 120.70): V





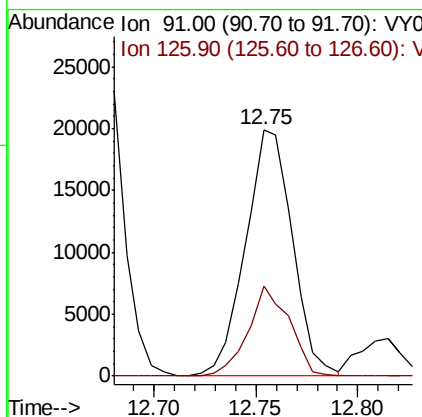
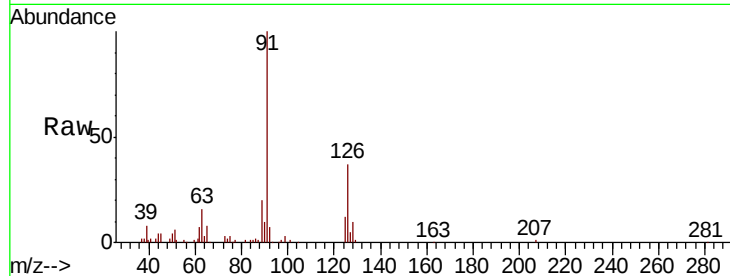
#79
2-Chlorotoluene
Concen: 2.952 ug/l
RT: 12.75 min Scan# 1807
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

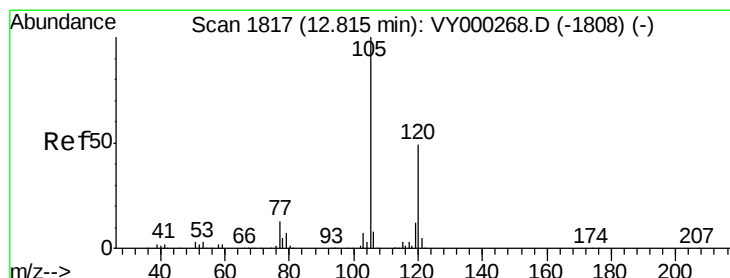
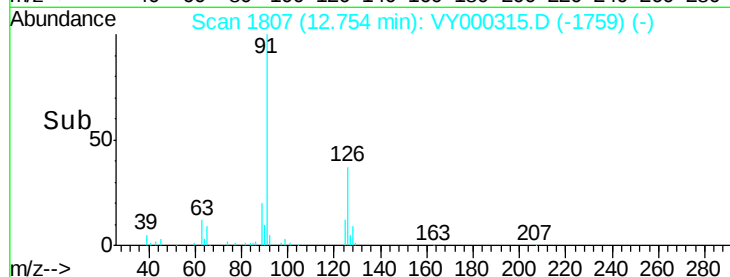
Tot Ion: 91 Resp: 31924
Ion Ratio Lower Upper
91 100
126 32.3 17.1 51.3

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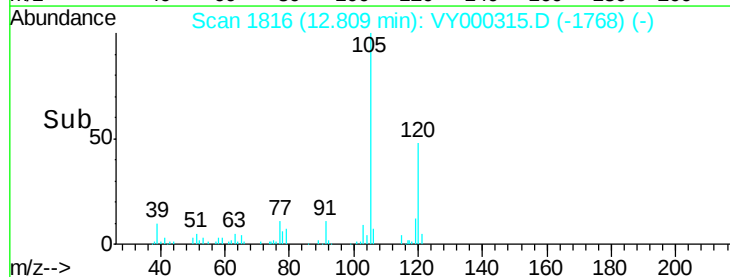
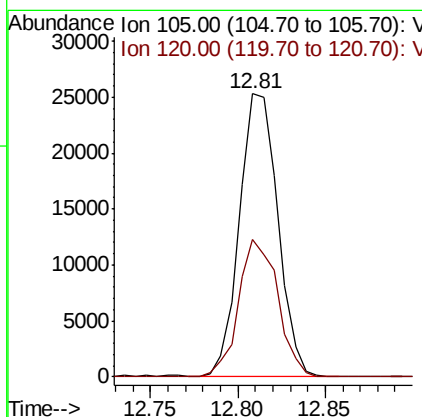
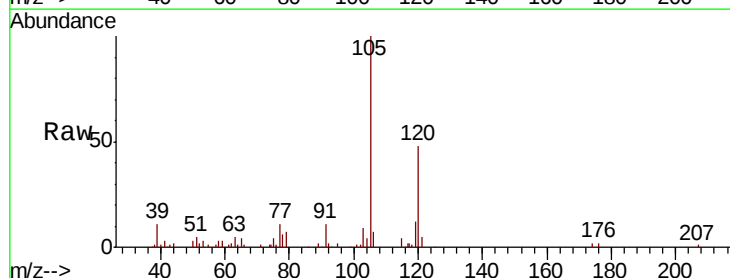


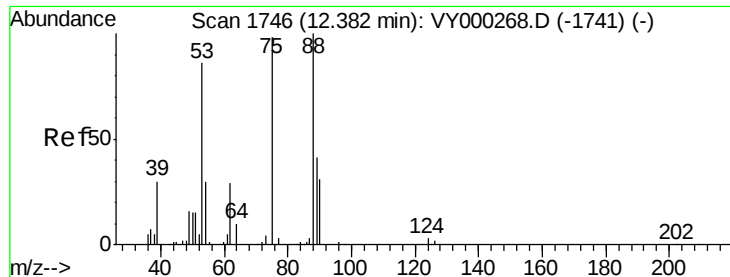
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#80
1,3,5-Trimethylbenzene
Concen: 2.829 ug/l
RT: 12.81 min Scan# 1816
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 105 Resp: 38692
Ion Ratio Lower Upper
105 100
120 49.4 24.9 74.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.573 ug/l m

RT: 12.38 min Scan# 1746

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

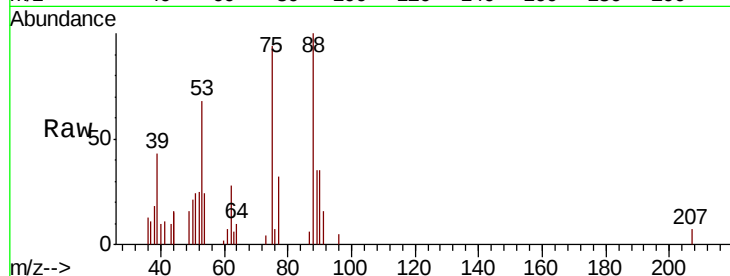
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

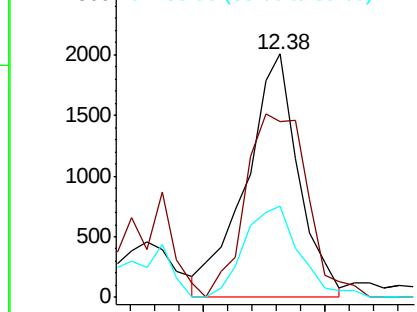
Tot Ion:	75	Resp:	3025
Ion Ratio	Lower	Upper	
75	100		
53	0.0	71.3	106.9#
89	12.7	35.1	52.7#

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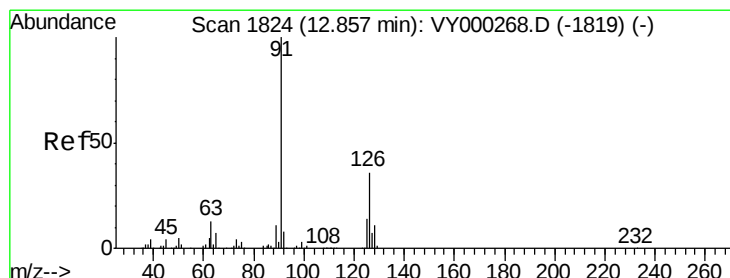
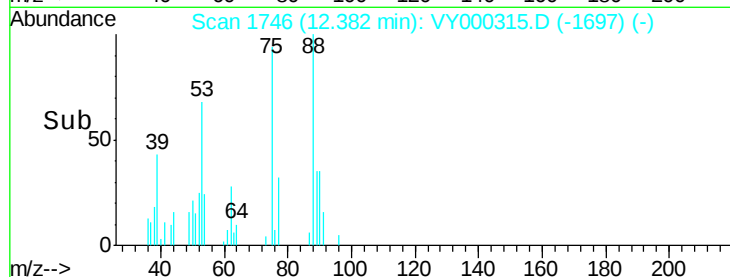
MMDadoda



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 53.00 (52.70 to 53.70): VY0
Ion 88.90 (88.60 to 89.60): VY0



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#82

4-Chlorotoluene

Concen: 2.856 ug/l

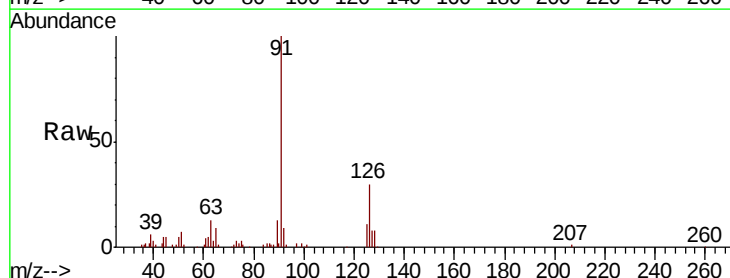
RT: 12.85 min Scan# 1823

Delta R.T. -0.01 min

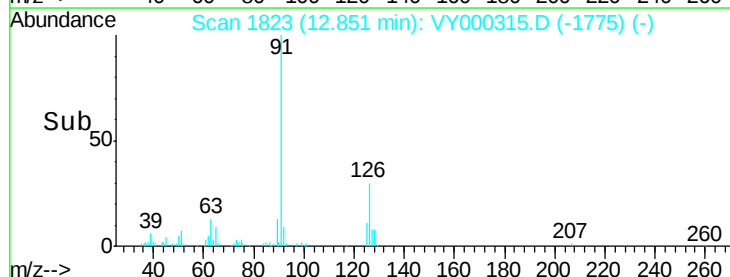
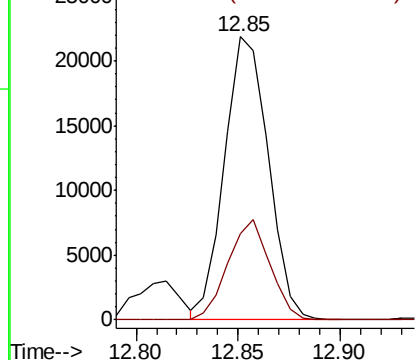
Lab File: VY000315.D

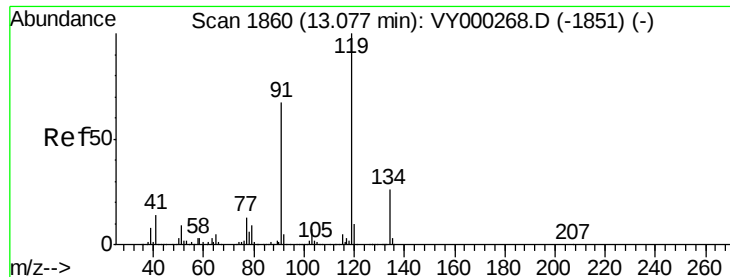
Acq: 15 Oct 2019 13:17

Tgt Ion:	91	Resp:	32655
Ion Ratio	Lower	Upper	
91	100		
126	33.9	17.2	51.5



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 125.90 (125.60 to 126.60): V





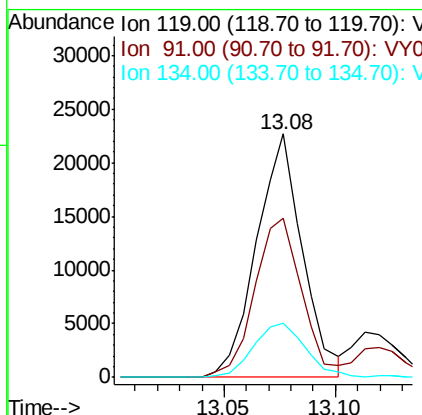
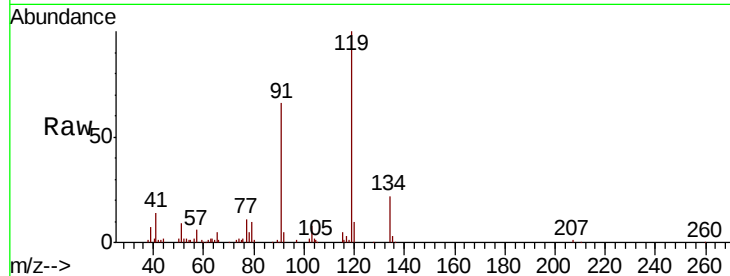
#83
tert-Butylbenzene
Concen: 2.807 ug/l
RT: 13.08 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

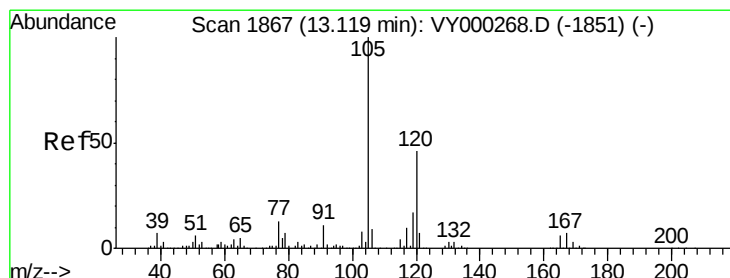
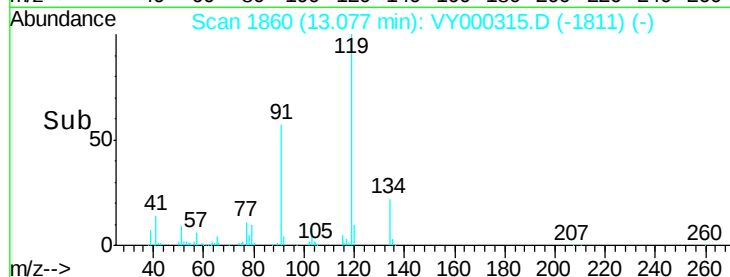
Tot Ion	Ratio	Lower	Upper
119	100		
91	67.3	32.9	98.7
134	25.3	13.3	39.8

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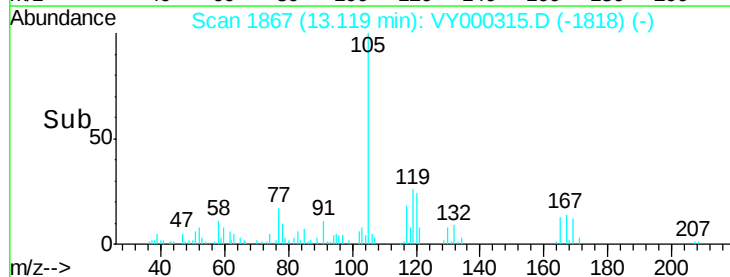
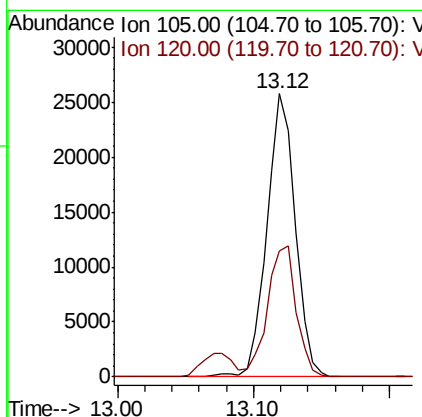
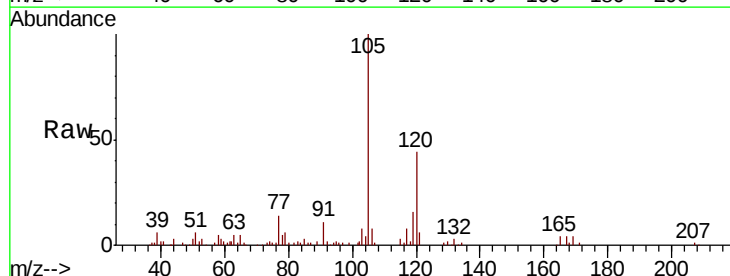


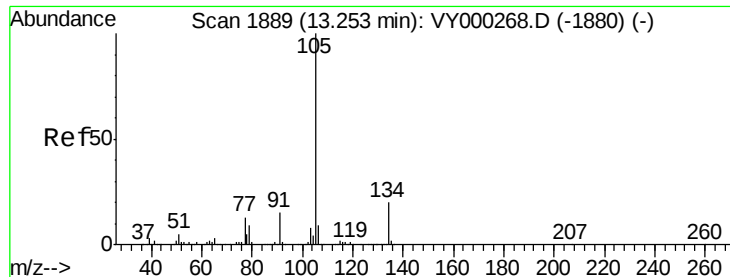
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#84
1,2,4-Trimethylbenzene
Concen: 2.788 ug/l
RT: 13.12 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.2	22.9	68.8





#85

sec-Butylbenzene

Concen: 2.771 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 46426

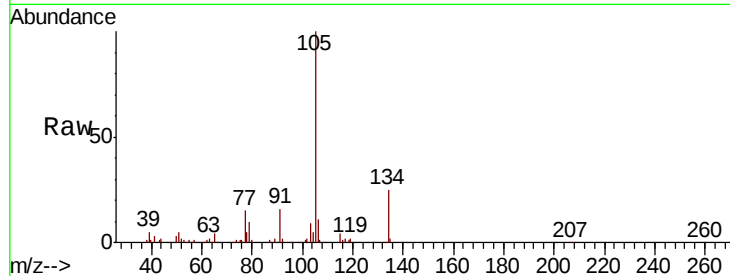
Ion Ratio Lower Upper

105 100

134 22.0 10.1 30.1

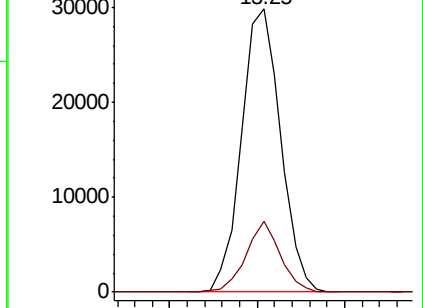
Manual Integrations
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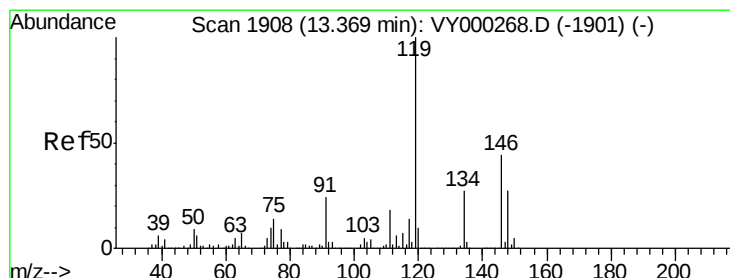
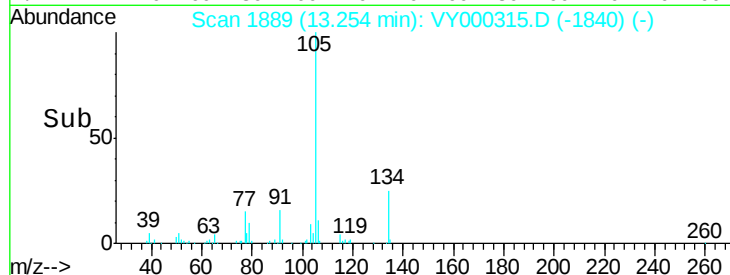


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



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#86

p-Isopropyltoluene

Concen: 2.908 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

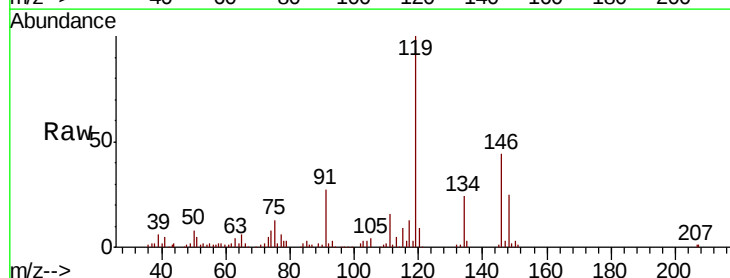
Tgt Ion:119 Resp: 42481

Ion Ratio Lower Upper

119 100

134 26.9 13.6 40.8

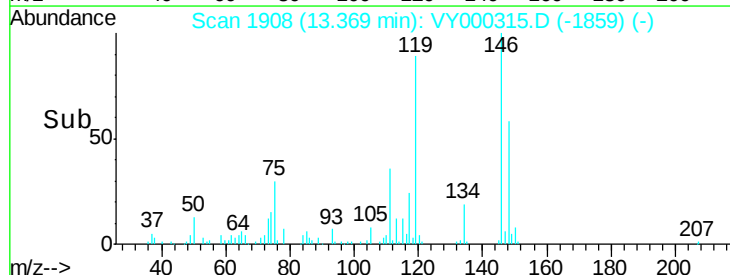
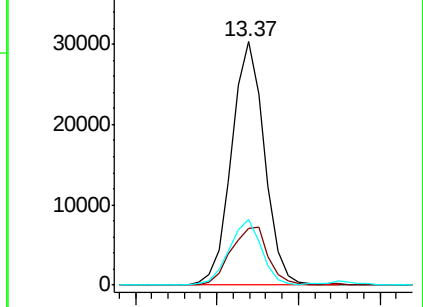
91 26.5 12.0 36.1

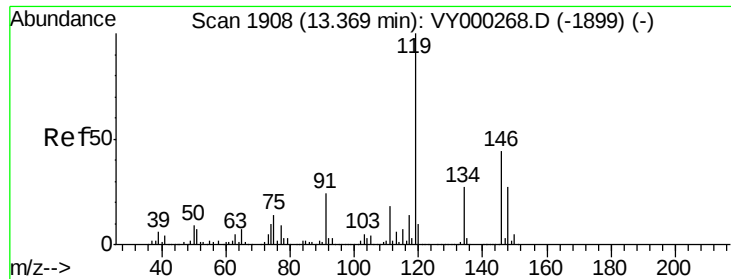


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





#87

1,3-Dichlorobenzene

Concen: 3.038 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

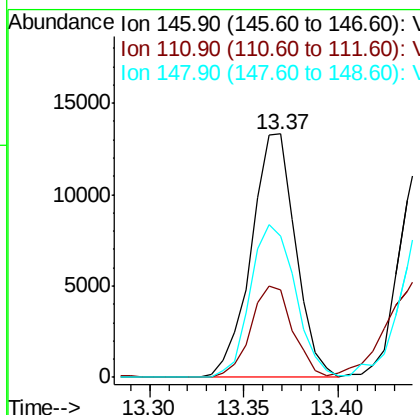
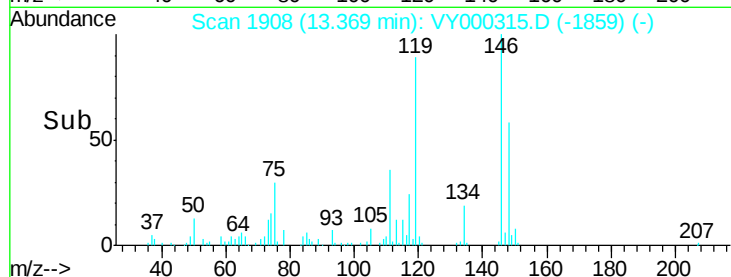
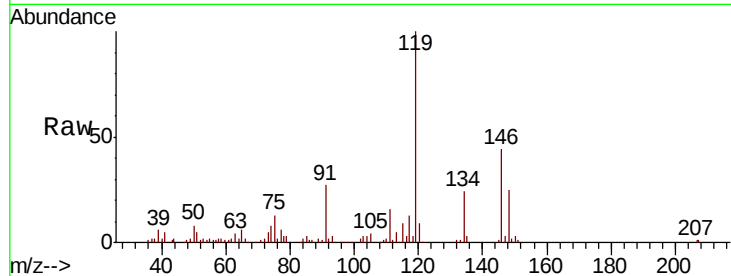
ClientSampleId :

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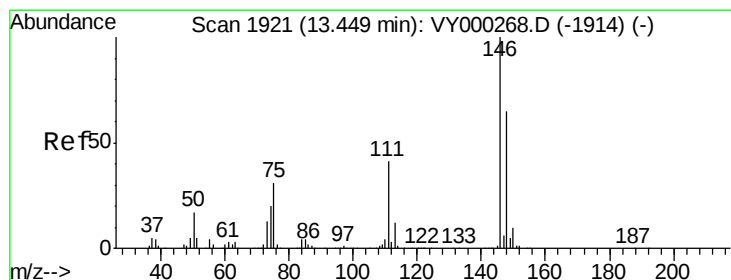
Tot Ion:	146	Resp:	21729
Ion Ratio	Lower	Upper	
146	100		
111	35.6	20.6	61.8
148	63.6	31.9	95.5

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#88

1,4-Dichlorobenzene

Concen: 3.018 ug/l

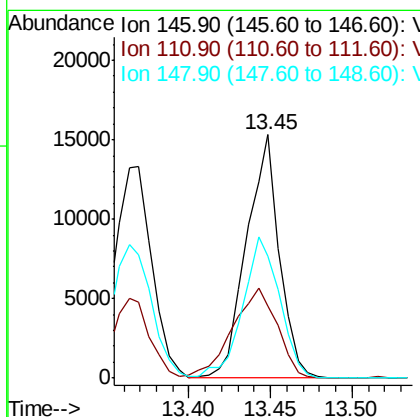
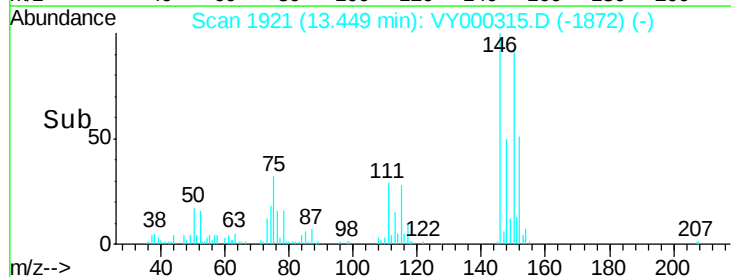
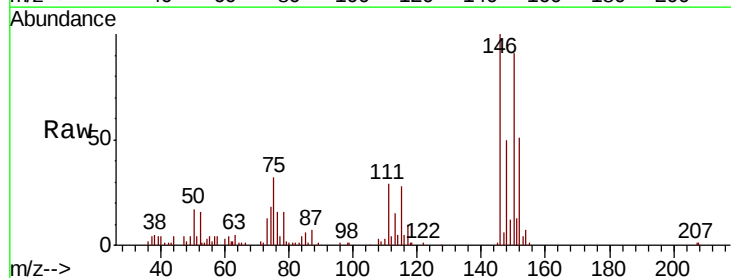
RT: 13.45 min Scan# 1921

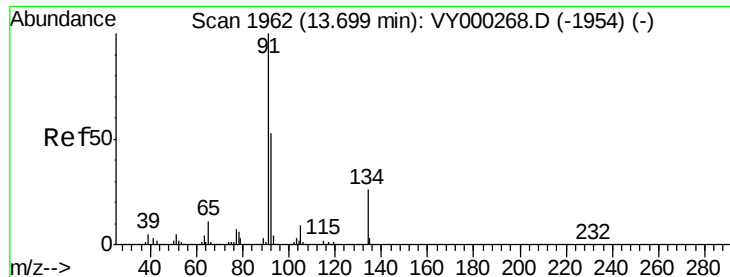
Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tgt Ion:	146	Resp:	21572
Ion Ratio	Lower	Upper	
146	100		
111	50.4	20.1	60.2
148	65.1	32.4	97.2





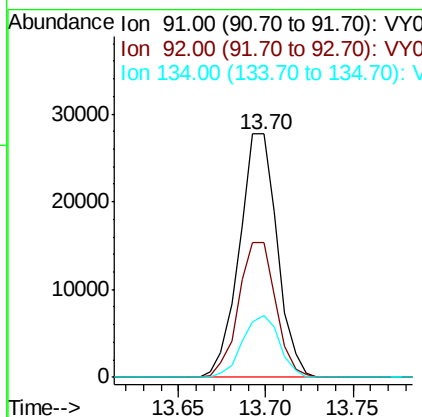
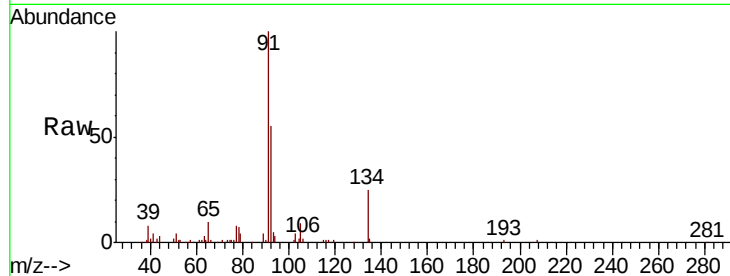
#89
n-Butylbenzene
Concen: 2.880 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

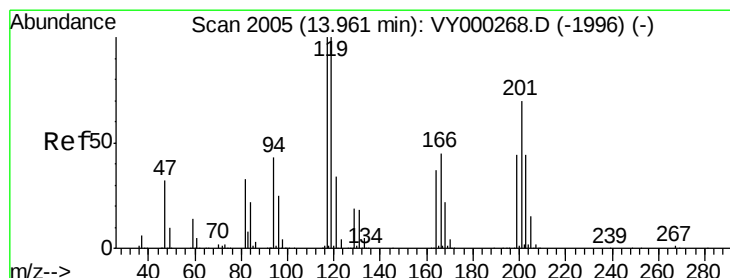
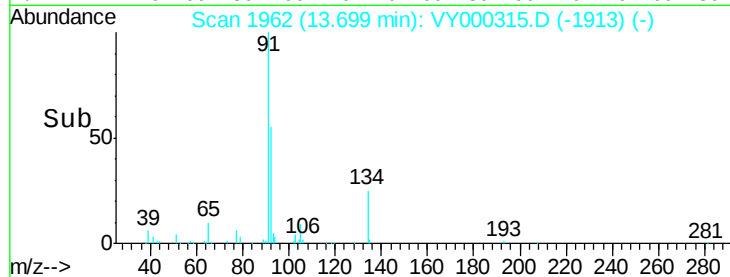
Tot Ion	Ratio	Lower	Upper
91	100		
92	54.6	26.7	80.1
134	25.1	13.0	38.9

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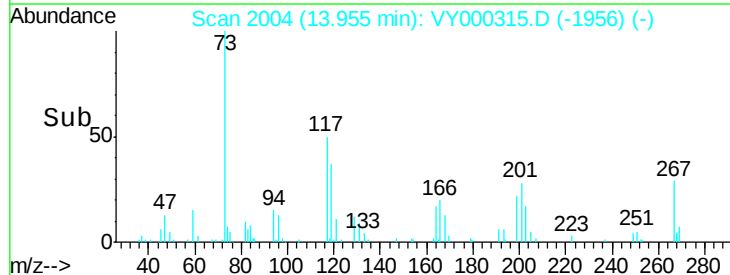
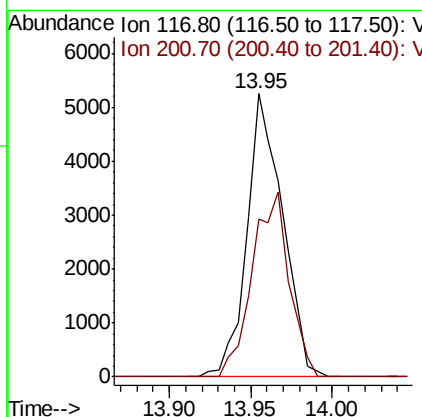
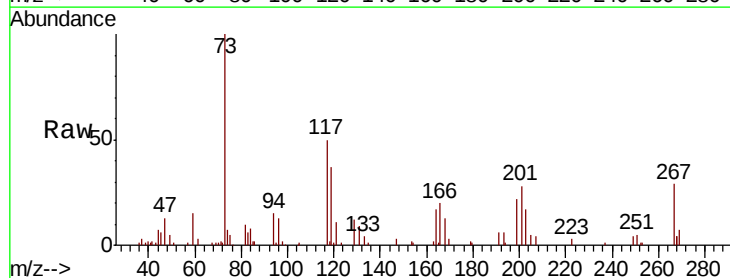


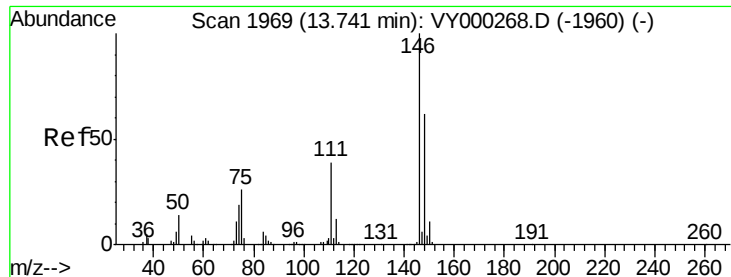
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#90
Hexachloroethane
Concen: 2.973 ug/l
RT: 13.95 min Scan# 2004
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	67.5	36.3	108.7





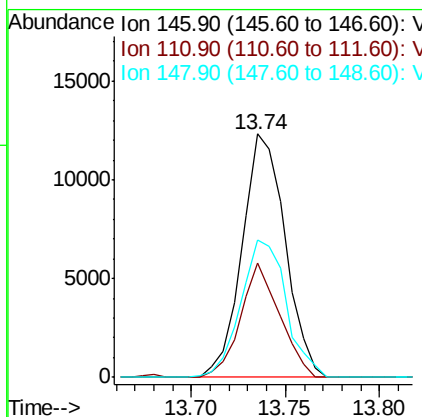
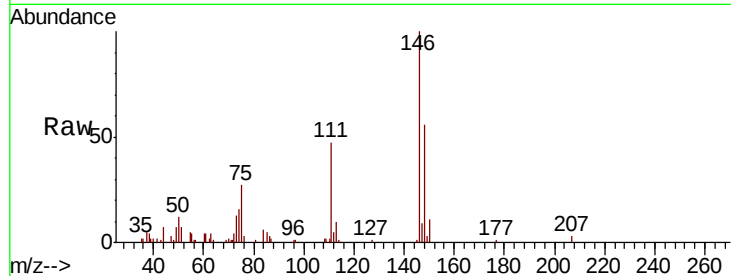
#91
 1,2-Dichlorobenzene
 Concen: 3.013 ug/l
 RT: 13.74 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

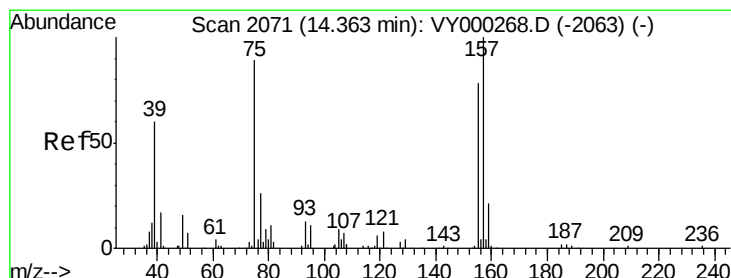
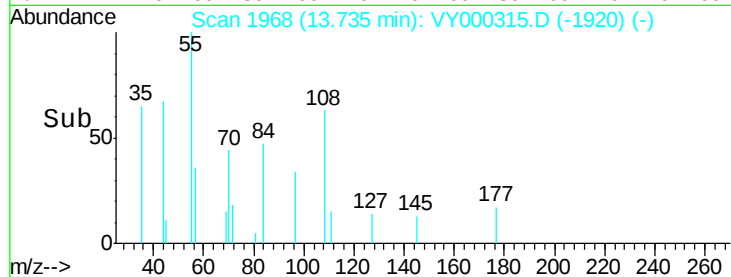
Tot Ion:	146	Resp:	19503
Ion Ratio	Lower	Upper	
146	100		
111	42.5	20.5	61.5
148	59.6	31.6	95.0

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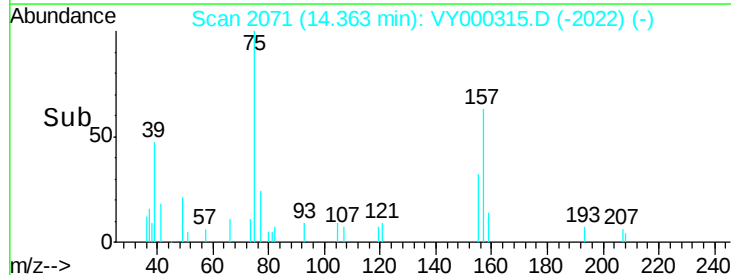
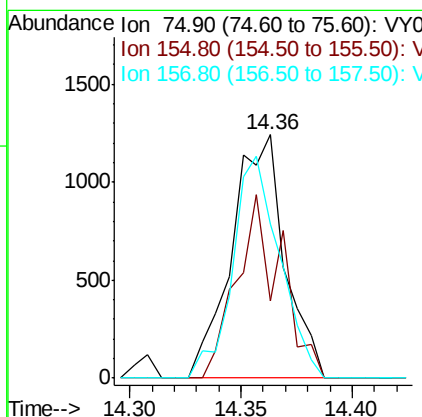
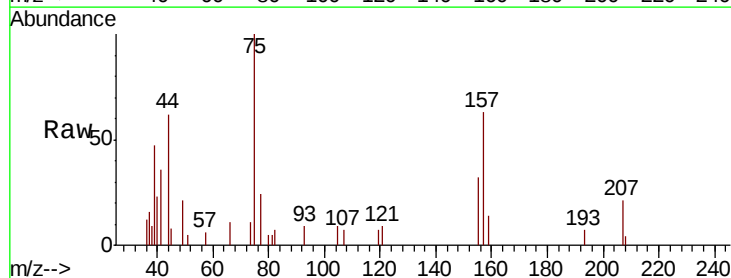


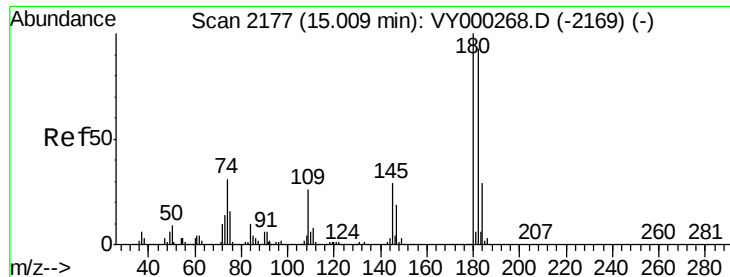
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.548 ug/l
 RT: 14.36 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion:	75	Resp:	2061
Ion Ratio	Lower	Upper	
75	100		
155	63.0	45.8	137.3
157	81.3	55.6	166.9





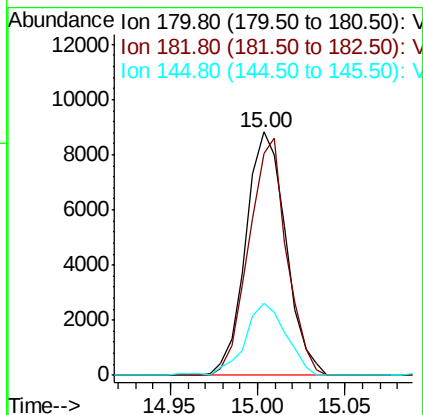
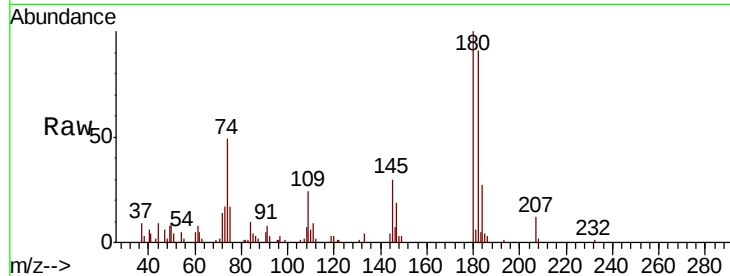
#93
 1,2,4-Trichlorobenzene
 Concen: 3.154 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

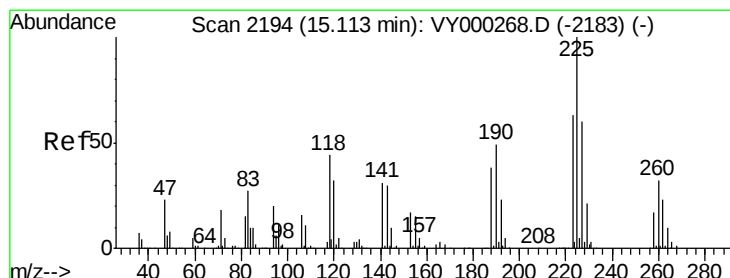
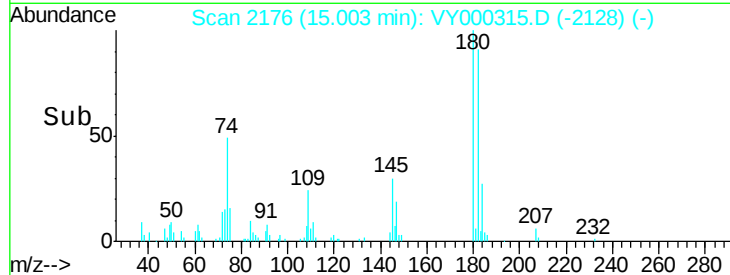
Tot Ion:180	Resp:	14213
Ion Ratio	Lower	Upper
180	100	
182	91.5	47.5 142.6
145	30.4	15.4 46.1

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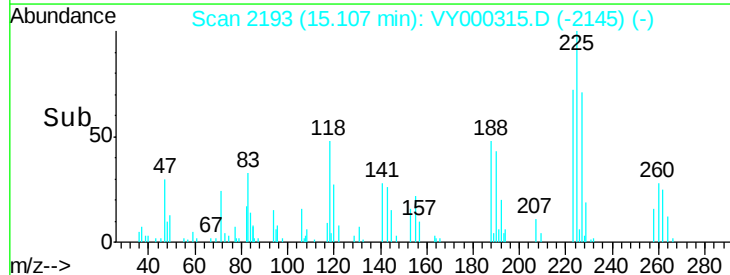
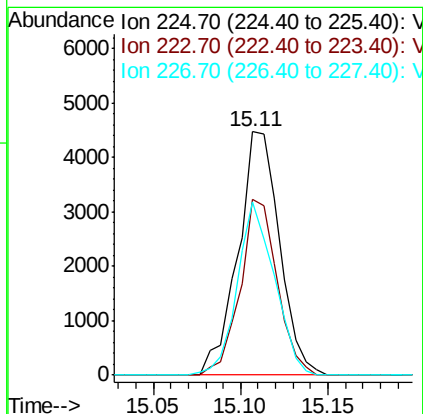
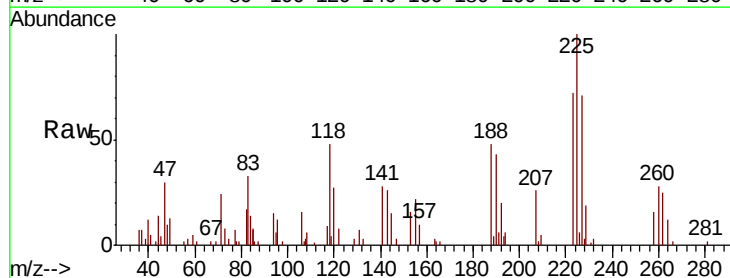


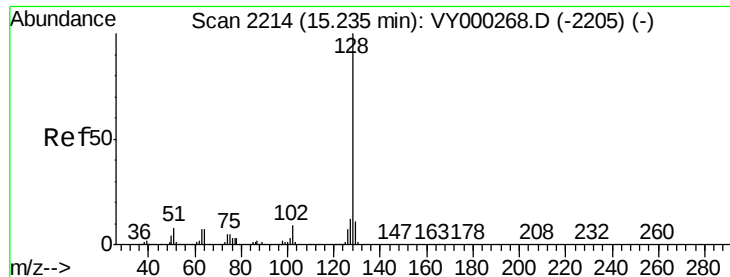
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#94
 Hexachlorobutadiene
 Concen: 3.032 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

Tgt Ion:225	Resp:	7393
Ion Ratio	Lower	Upper
225	100	
223	64.0	31.9 95.7
227	63.4	31.4 94.2





#95

Naphthalene

Concen: 3.715 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Instrument :

MSVOA_Y

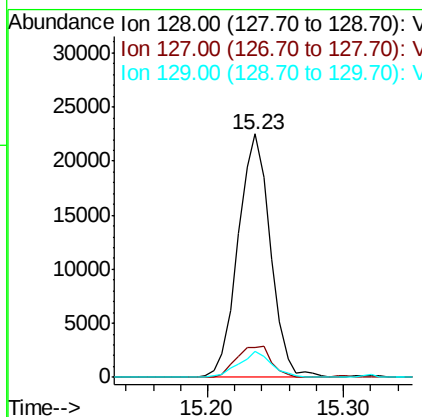
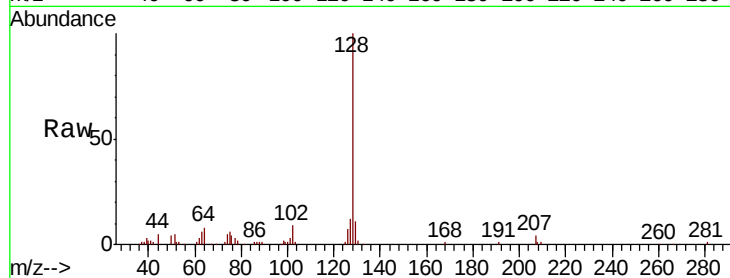
ClientSampleId :

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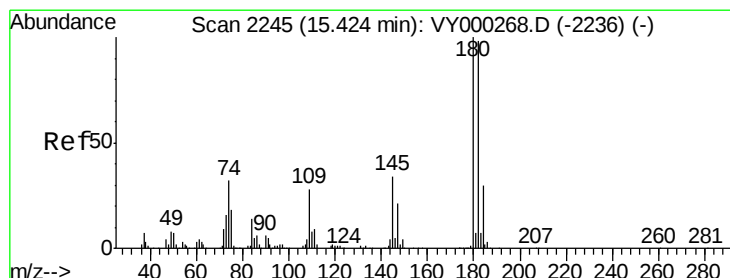
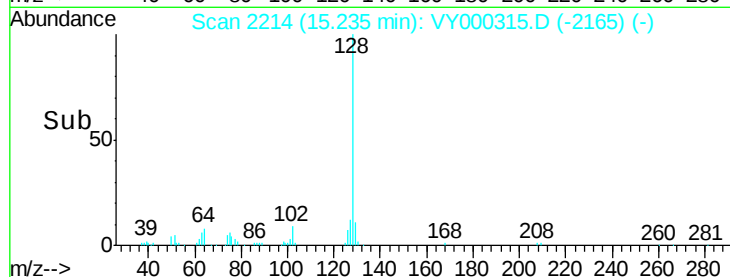
Tot Ion:	128	Resp:	37355
Ion Ratio	Lower	Upper	
128	100		
127	14.0	9.6	14.4
129	10.8	8.7	13.1

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 3.215 ug/l

RT: 15.42 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

Tgt Ion:	180	Resp:	13057
Ion Ratio	Lower	Upper	
180	100		
182	94.1	46.5	139.5
145	33.2	16.2	48.5

