

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

Quant Time: Oct 15 17:38:43 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

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	R.T.	QIon	Response	Conc	Units	Dev(Min)
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	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	8362	Below Cal		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	3.021	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
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
39) Methylcyclohexane	9.19	83	18294	2.861	ug/l	100

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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) Stvrene	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	11468	4.458	ug/l #	100
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	12.48	75	115982	98.647	ug/l #	14
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
93) 1,2,4-Trichlorobenzene	15.00	180	14213	3.154	ug/l	97

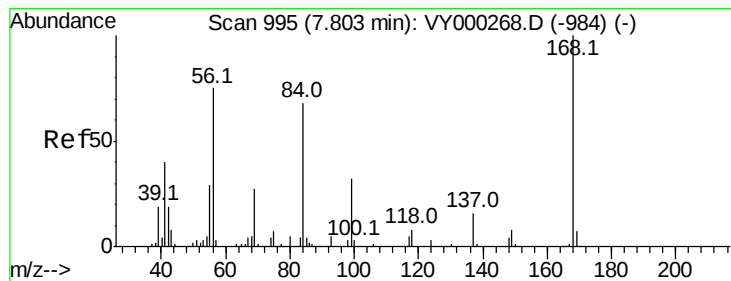
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.11	225	7393	3.032	ug/l	99
95) Naphthalene	15.23	128	37355	3.715	ug/l	97
96) 1,2,3-Trichlorobenzene	15.42	180	13057	3.215	ug/l	99

(#) = 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 :

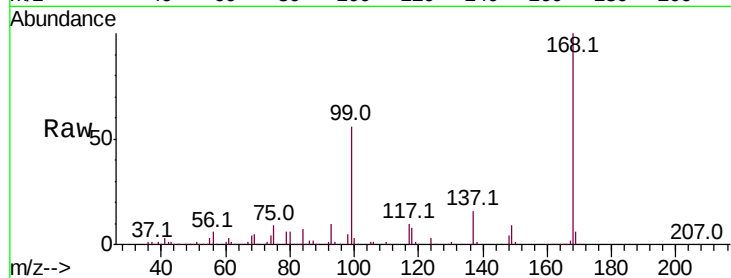
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:168 Resp: 296809

Ion Ratio Lower Upper

168 100

99 56.3 46.6 69.8



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

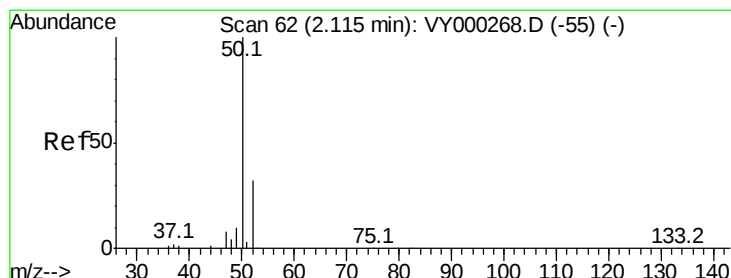
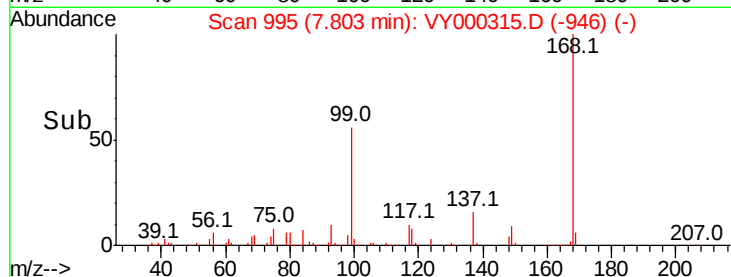
100000

50000

0

7.70 7.80 7.90

Time-->



#3

Chloromethane

Concen: 3.007 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY000315.D

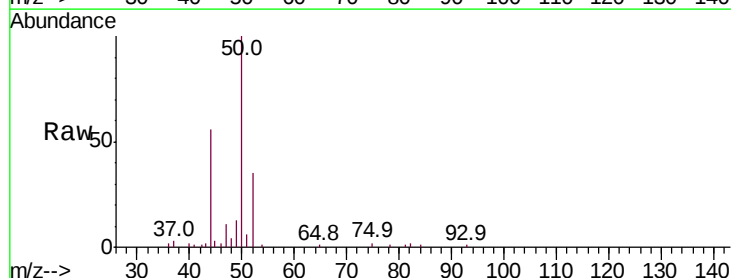
Acq: 15 Oct 2019 13:17

Tgt Ion: 50 Resp: 10907

Ion Ratio Lower Upper

50 100

52 34.7 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VY000315.D (-13) (-)

Ion 51.90 (51.60 to 52.60): VY000315.D (-13) (-)

2.12

6000

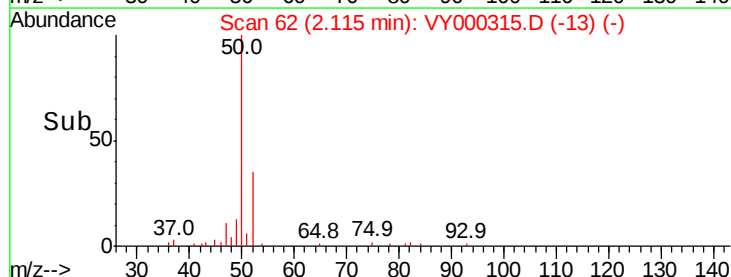
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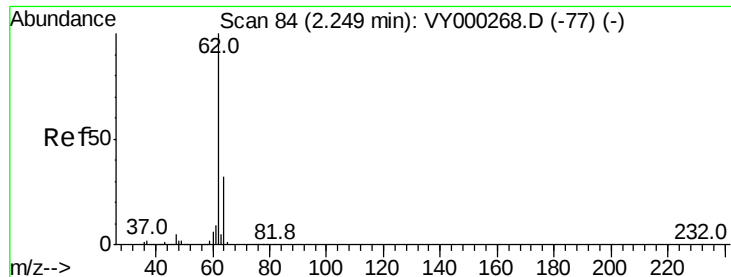
2000

0

2.05 2.10 2.15 2.20

Time-->





#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

Instrument :

MSVOA_Y

ClientSampleId :

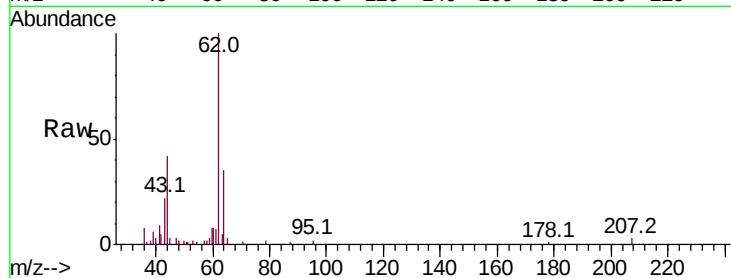
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 62 Resp: 10554

Ion Ratio Lower Upper

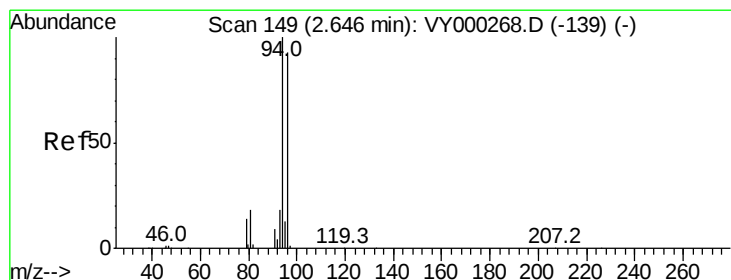
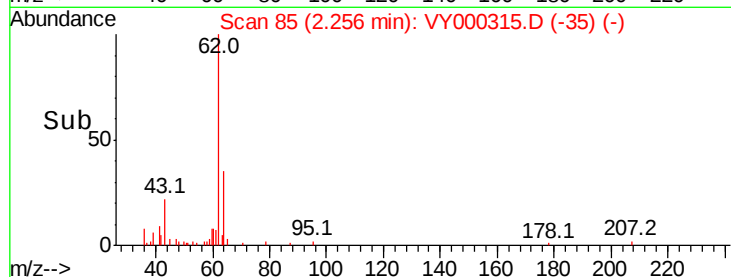
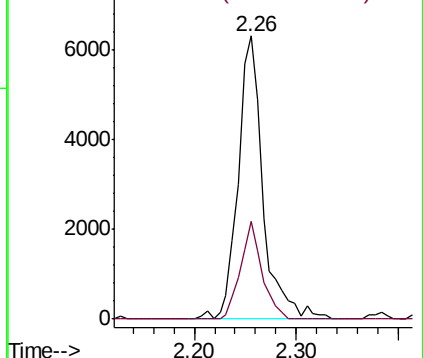
62 100

64 34.5 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0



#5

Bromomethane

Concen: 3.268 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY000315.D

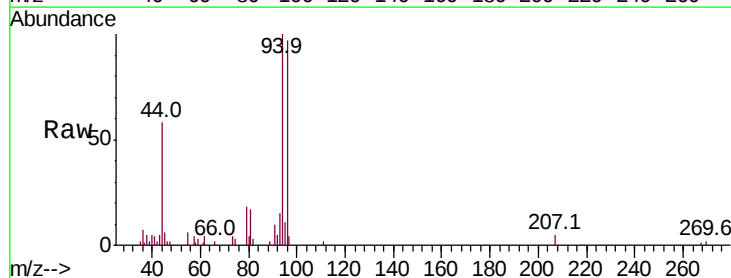
Acq: 15 Oct 2019 13:17

Tgt Ion: 94 Resp: 8865

Ion Ratio Lower Upper

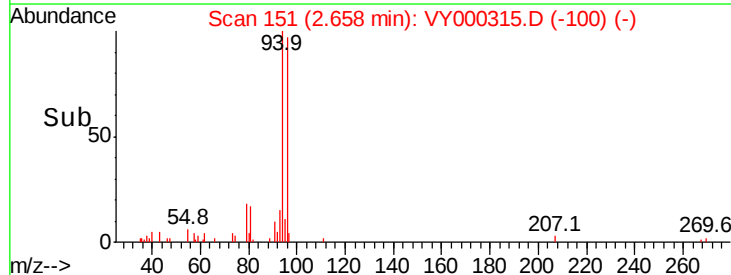
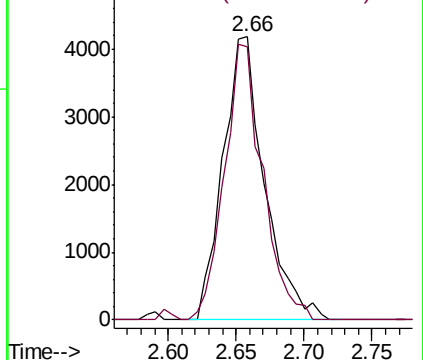
94 100

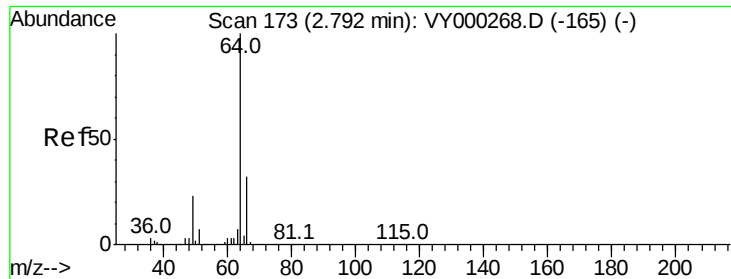
96 96.6 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0





#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

Instrument :

MSVOA_Y

ClientSampleId :

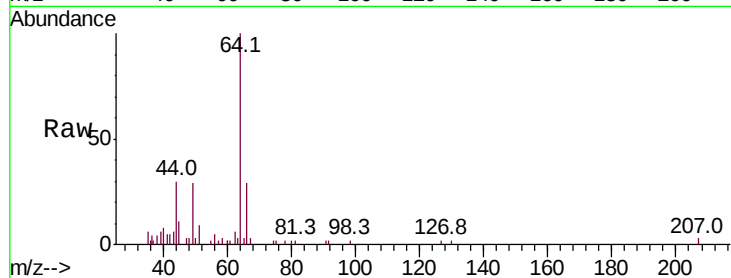
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 64 Resp: 7488

Ion Ratio Lower Upper

64 100

66 29.4 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0

2.80

4000

3000

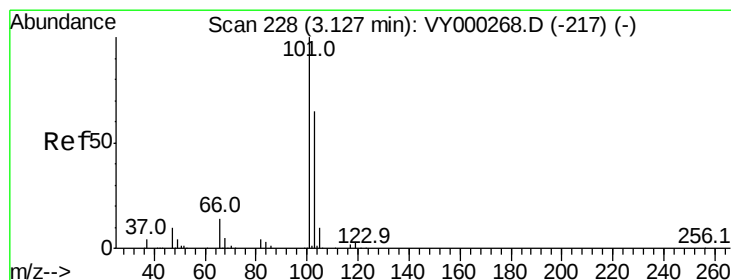
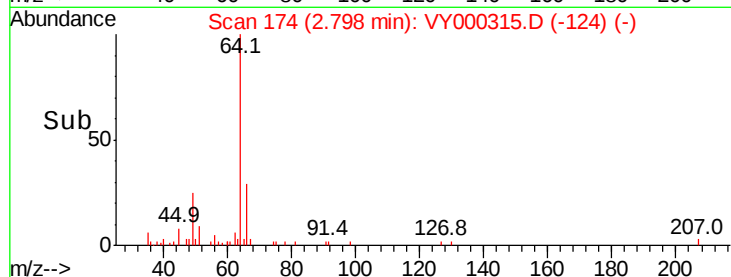
2000

1000

0

Time-->

2.70 2.75 2.80 2.85 2.90



#7

Trichlorofluoromethane

Concen: 2.934 ug/l

RT: 3.13 min Scan# 229

Delta R.T. 0.01 min

Lab File: VY000315.D

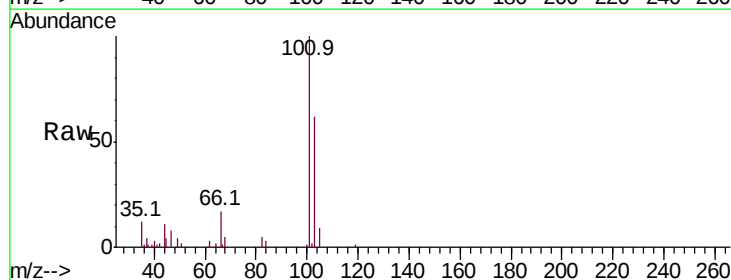
Acq: 15 Oct 2019 13:17

Tgt Ion: 101 Resp: 14692

Ion Ratio Lower Upper

101 100

103 62.0 52.2 78.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.13

6000

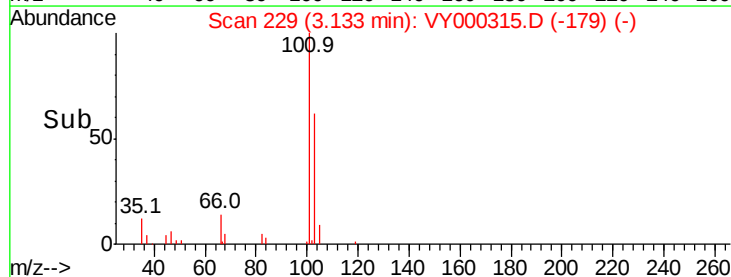
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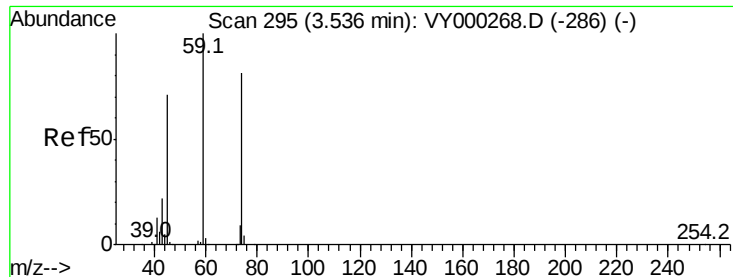
2000

0

Time-->

3.10 3.20





#8

Diethyl Ether

Concen: 3.190 ug/l

RT: 3.54 min Scan# 296

Delta R.T. 0.01 min

Lab File: VY000315.D

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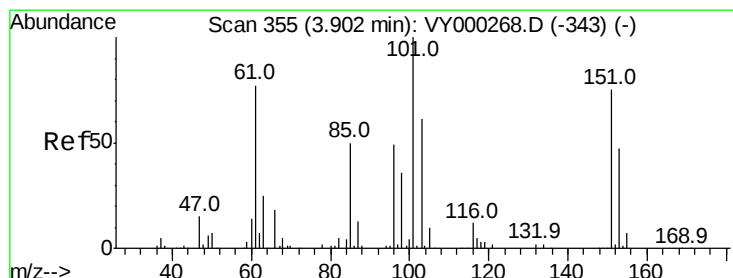
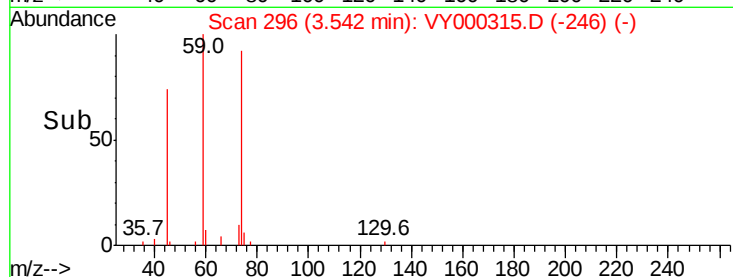
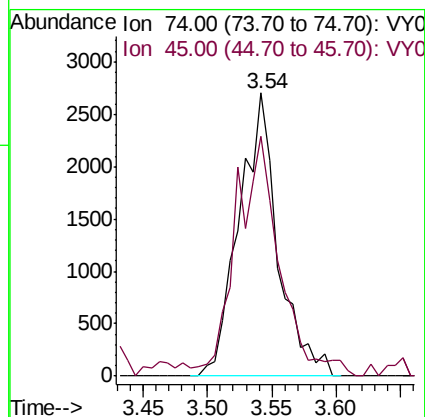
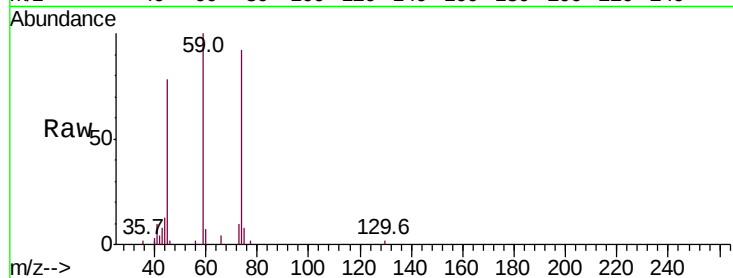
LOD-MDL-SOIL-01-QT4-2019

Tot 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

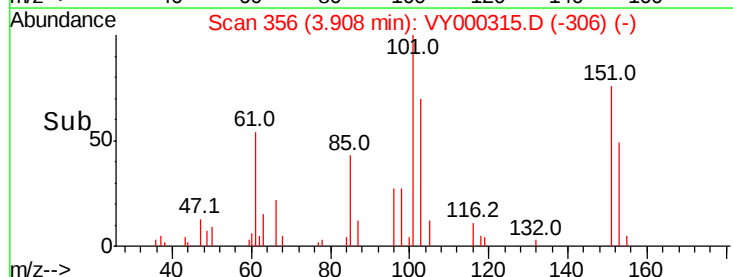
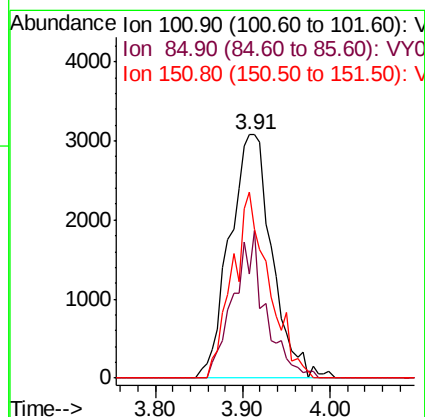
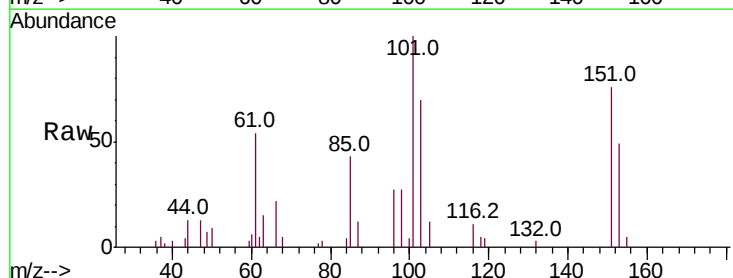
Tgt Ion:101 Resp: 10371

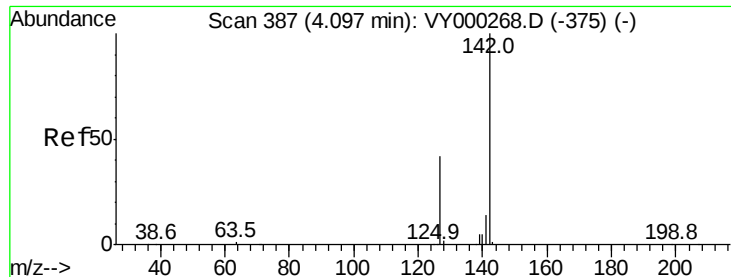
Ion Ratio Lower Upper

101 100

85 45.7 36.6 55.0

151 66.0 63.1 94.7

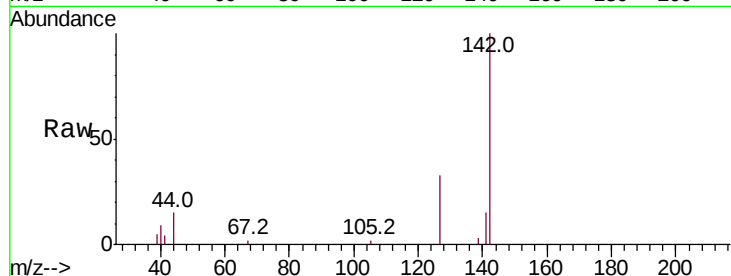




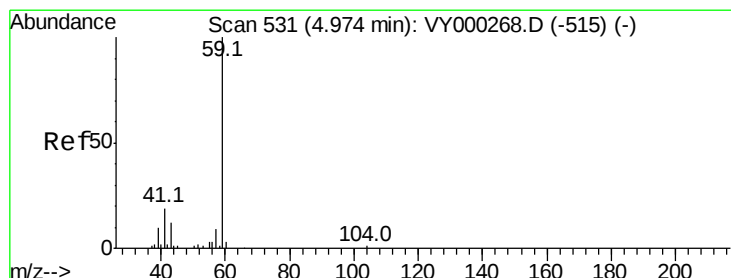
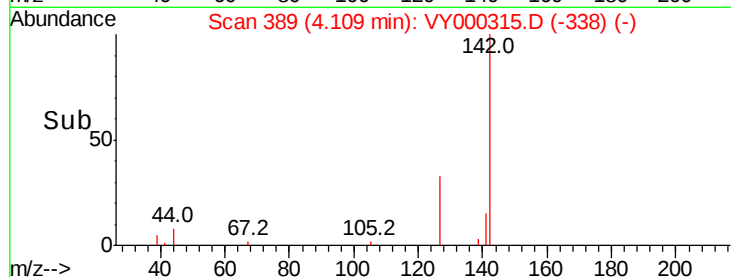
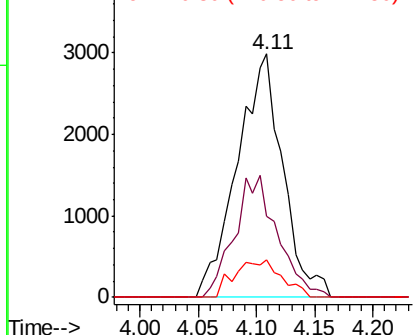
#10
Methvl Iodide
Concen: 3.021 ug/l
RT: 4.11 min Scan# 389
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

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

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

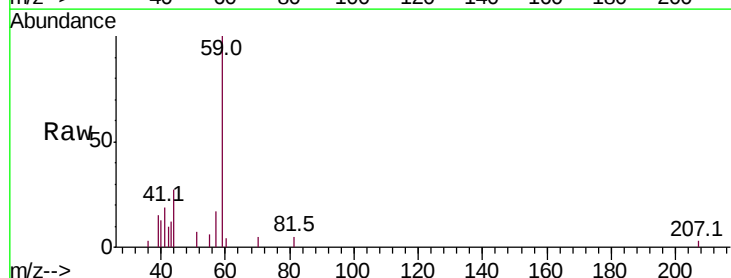


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

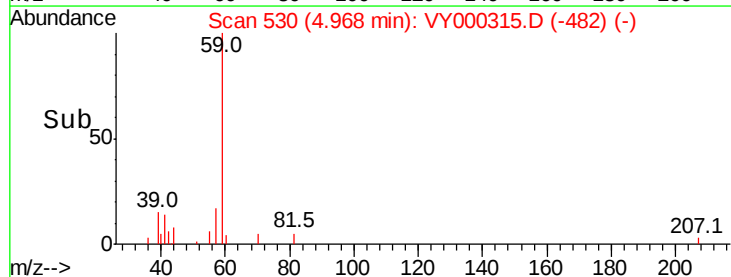
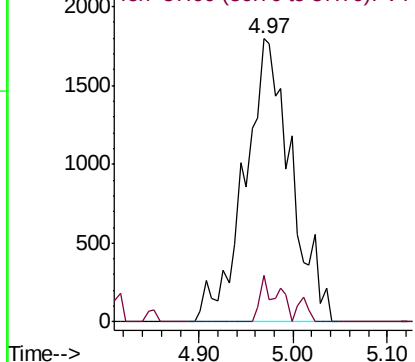


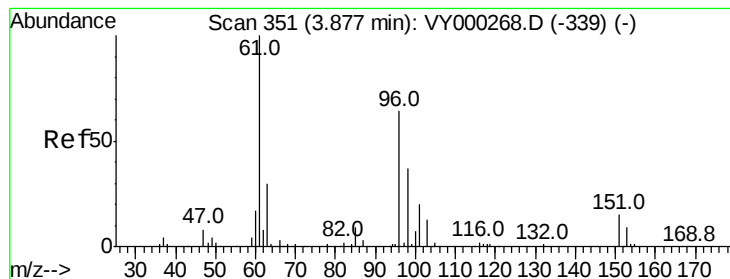
#11
Tert butyl alcohol
Concen: 18.834 ug/l
RT: 4.97 min Scan# 530
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

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



Abundance Ion 59.00 (58.70 to 59.70): VY0
Ion 57.00 (56.70 to 57.70): VY0





#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

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

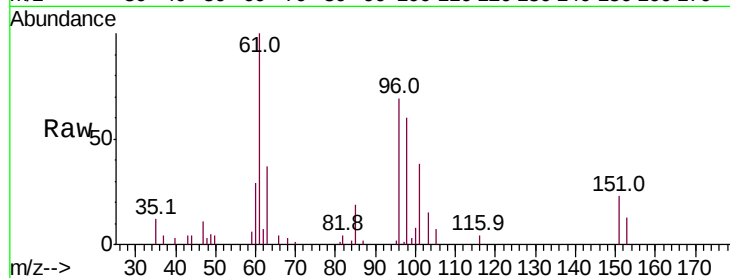
Tot Ion: 96 Resp: 8446

Ion Ratio Lower Upper

96 100

61 144.7 125.8 188.6

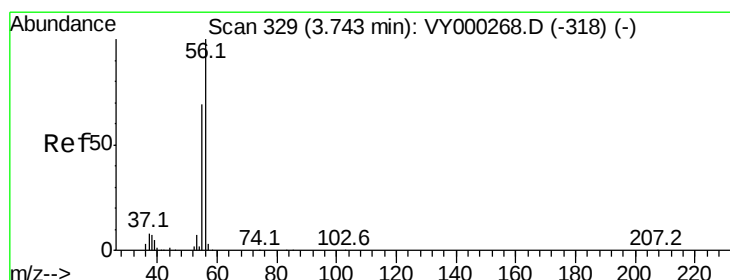
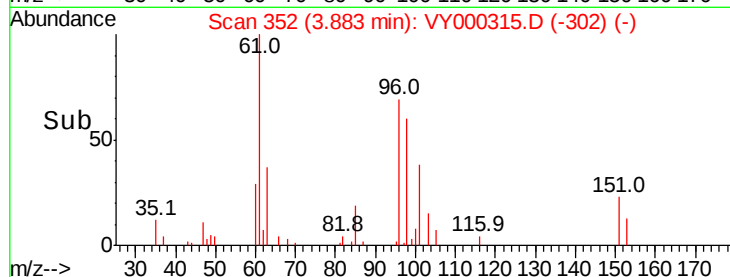
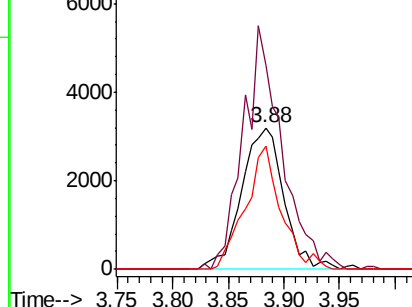
98 87.4 46.2 69.2#



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



#13

Acrolein

Concen: 13.193 ug/l

RT: 3.75 min Scan# 330

Delta R.T. 0.01 min

Lab File: VY000315.D

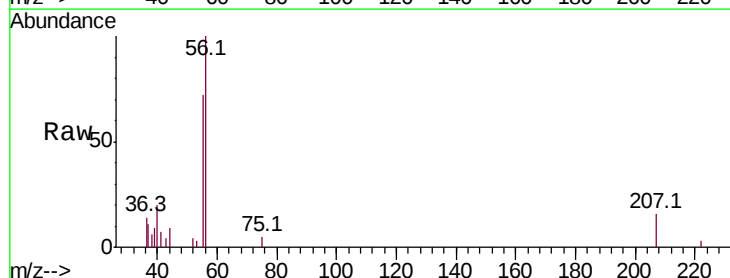
Acq: 15 Oct 2019 13:17

Tgt Ion: 56 Resp: 5068

Ion Ratio Lower Upper

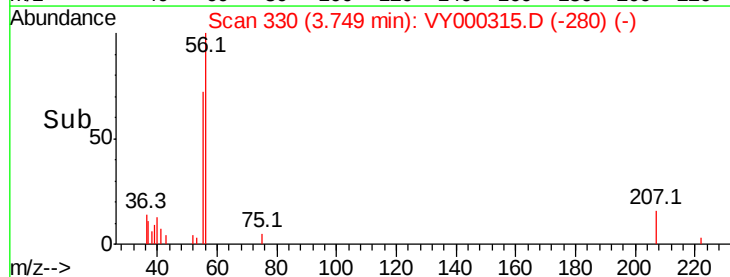
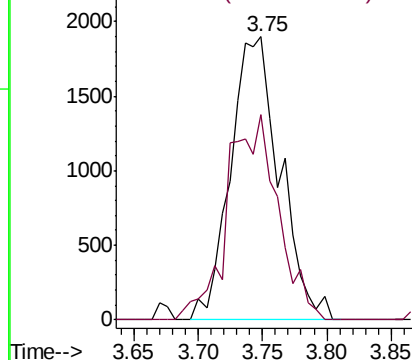
56 100

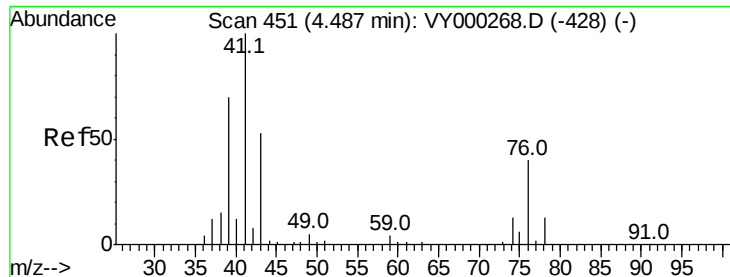
55 74.1 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0





#14

Allvl 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

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

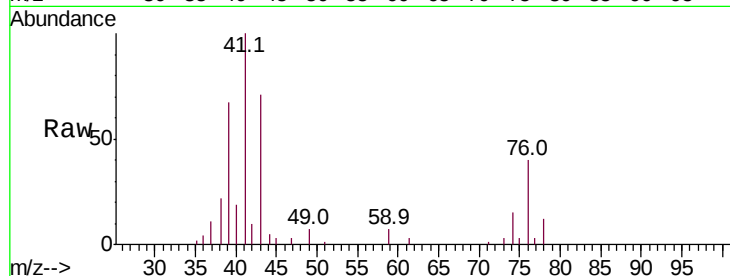
Tot Ion: 41 Resp: 13905

Ion Ratio Lower Upper

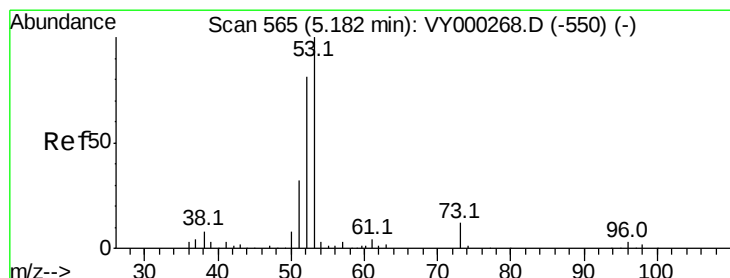
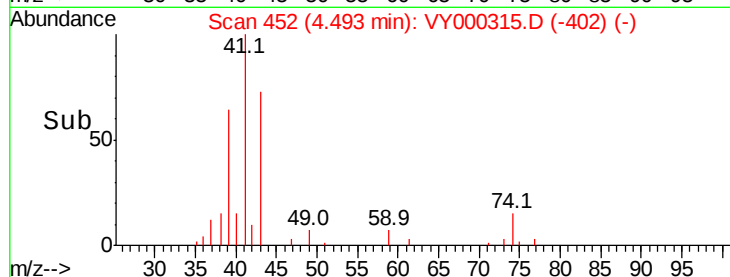
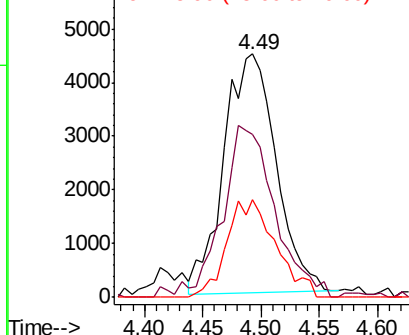
41 100

39 72.9 54.0 81.0

76 38.2 30.7 46.1



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 75.90 (75.60 to 76.60): VY0



#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

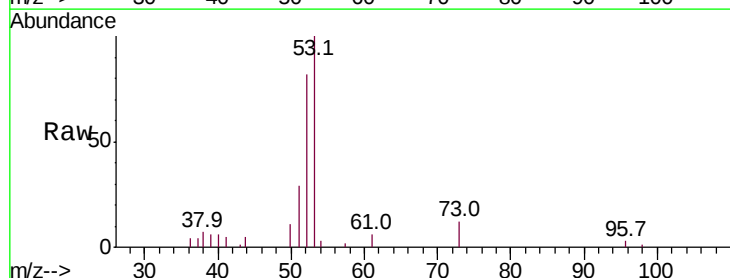
Tgt Ion: 53 Resp: 13738

Ion Ratio Lower Upper

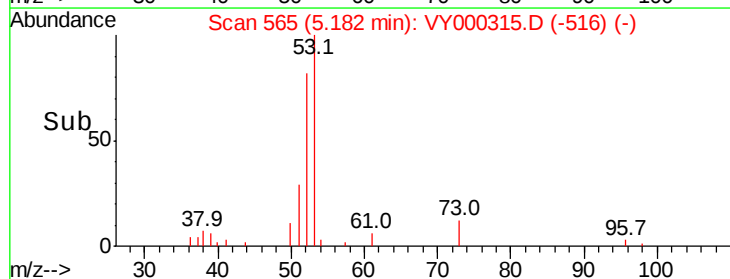
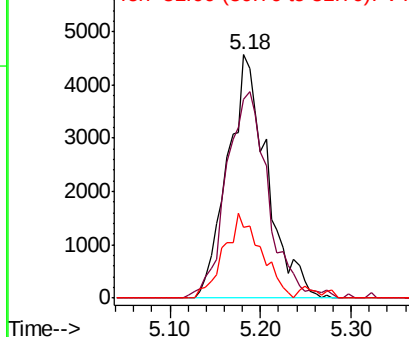
53 100

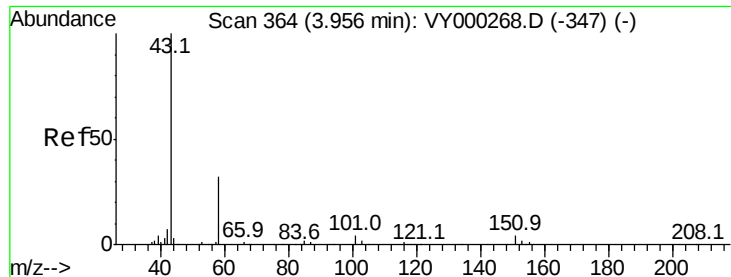
52 90.3 62.9 94.3

51 33.0 26.9 40.3



Abundance Ion 53.00 (52.70 to 53.70): VY0
Ion 52.00 (51.70 to 52.70): VY0
Ion 51.00 (50.70 to 51.70): VY0





#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

Instrument :

MSVOA_Y

ClientSampleId :

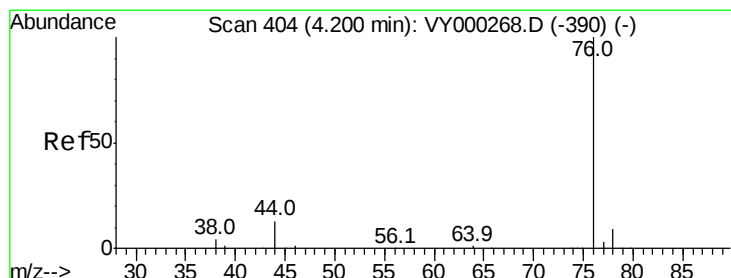
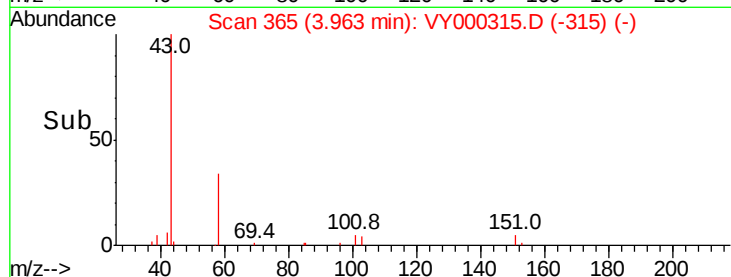
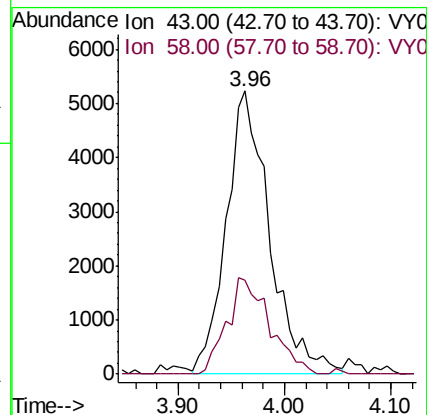
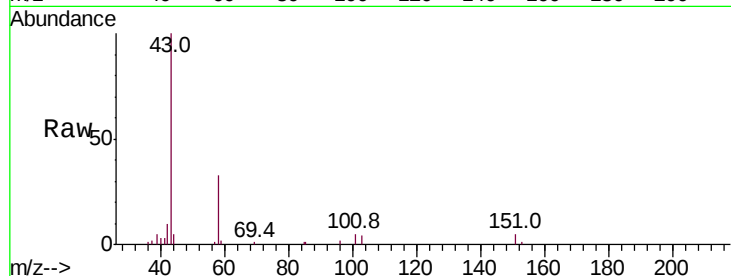
LOD-MDL-SOIL-01-QT4-2019

Tot 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

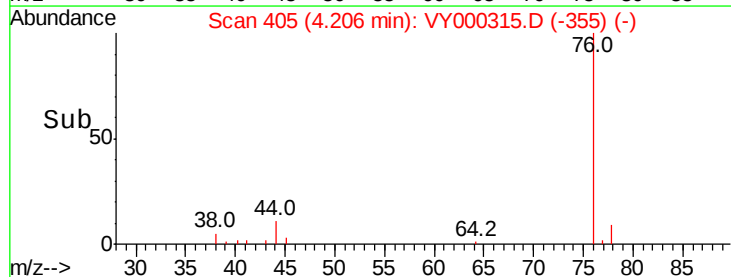
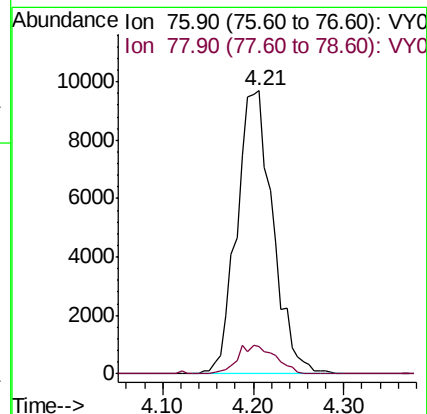
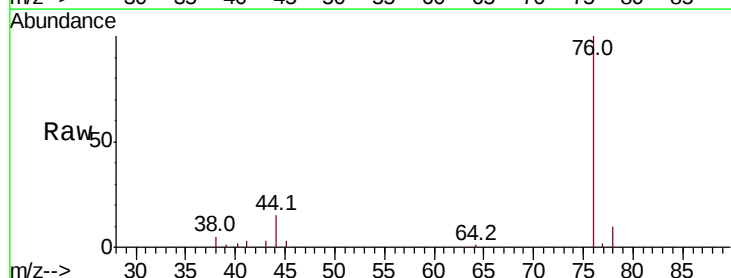
Acq: 15 Oct 2019 13:17

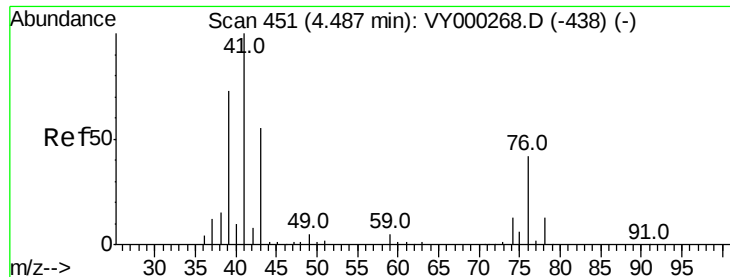
Tgt Ion: 76 Resp: 26746

Ion Ratio Lower Upper

76 100

78 9.8 7.0 10.4

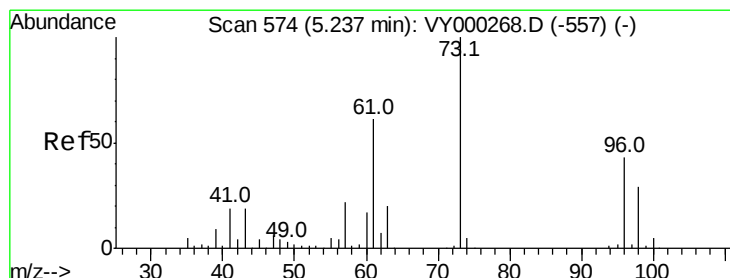
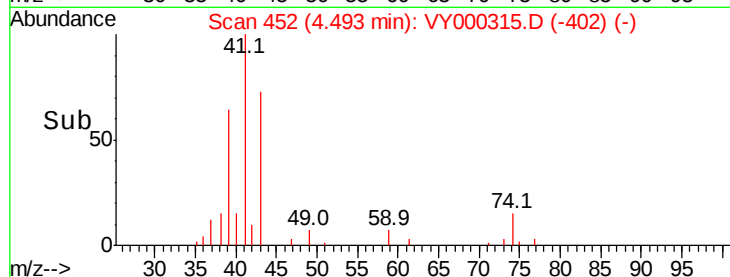
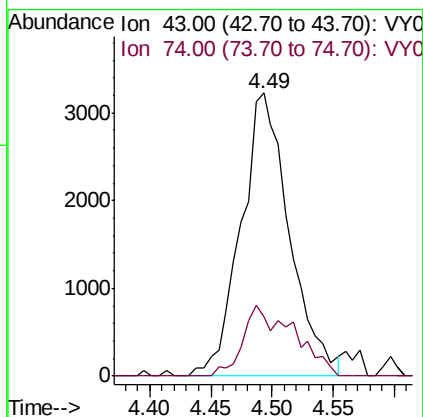
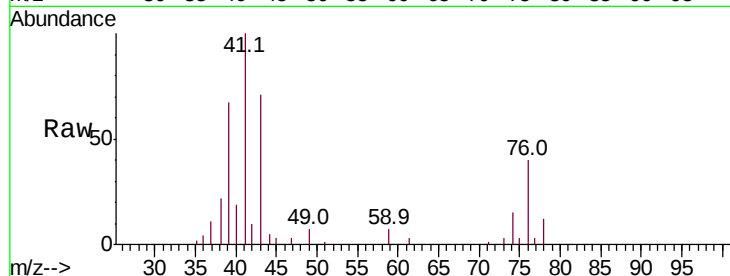




#18
Methyl Acetate
Concen: 3.541 ug/l
RT: 4.49 min Scan# 452
Delta R.T. 0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

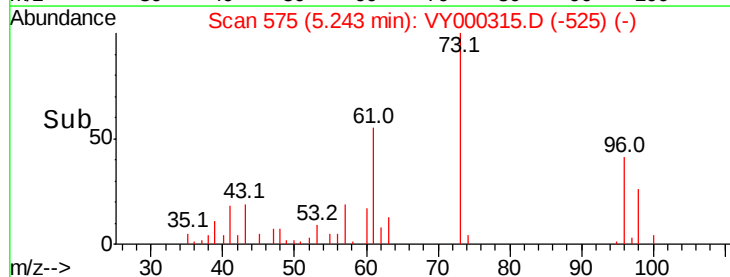
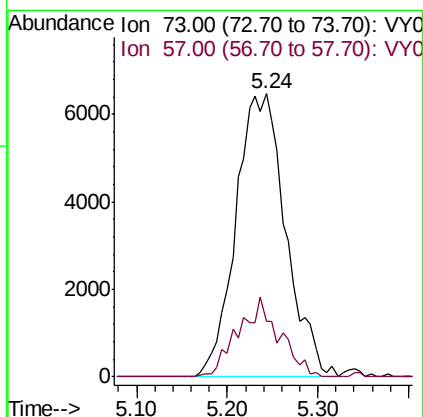
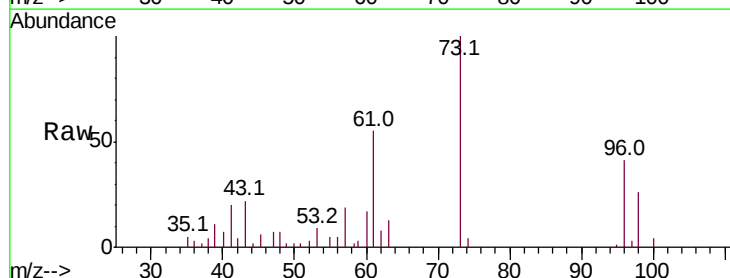
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

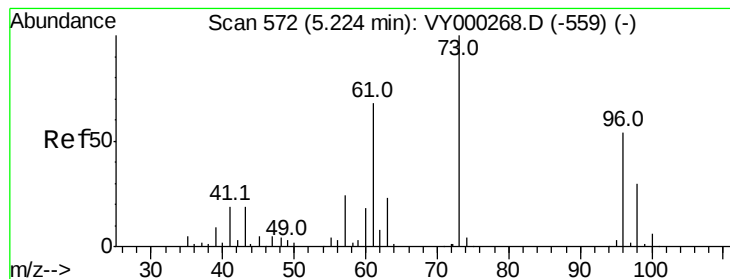
Tot Ion: 43 Resp: 8921
Ion Ratio Lower Upper
43 100
74 13.5 20.4 30.6#



#19
Methyl tert-butyl 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

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





#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

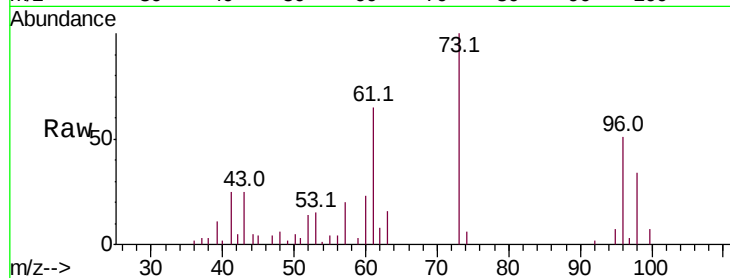
Tot Ion: 96 Resp: 9809

Ion Ratio Lower Upper

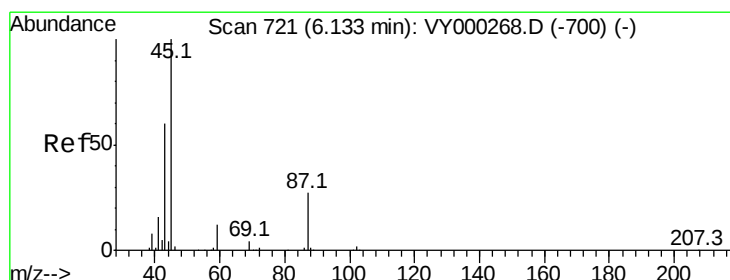
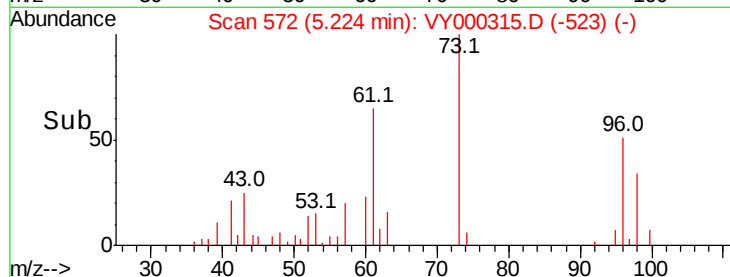
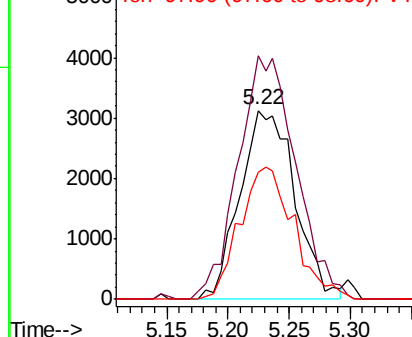
96 100

61 128.9 100.4 150.6

98 67.2 44.6 66.8#



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



#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

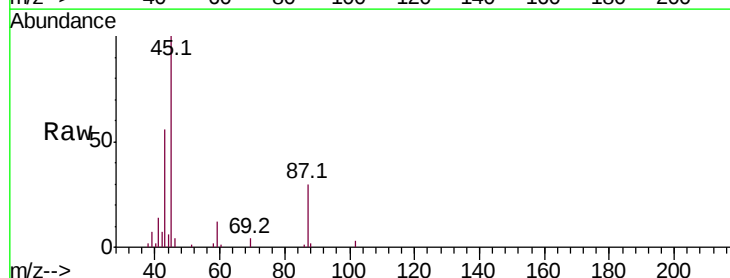
Ion Ratio Lower Upper

45 100

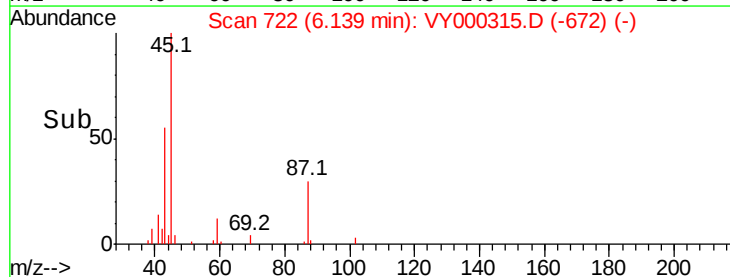
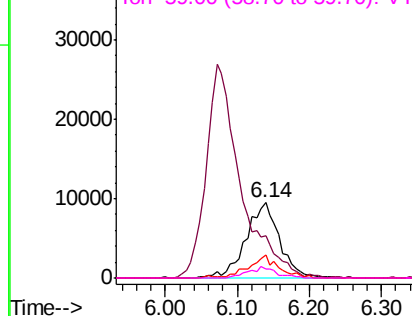
43 54.7 48.5 72.7

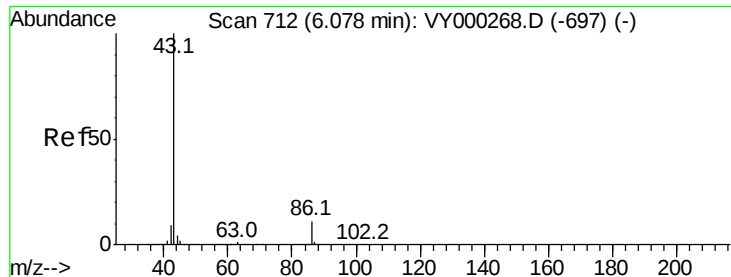
87 29.9 21.5 32.3

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 :

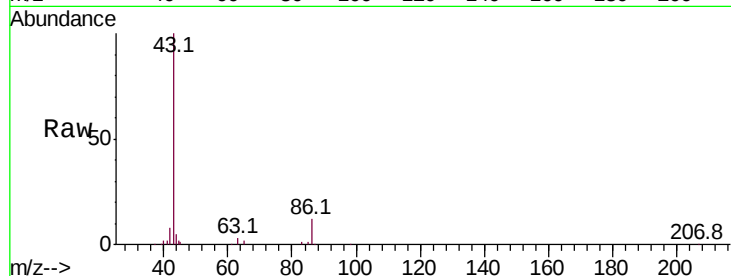
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 89360

Ion Ratio Lower Upper

43 100

86 11.6 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0

6.07

30000

25000

20000

15000

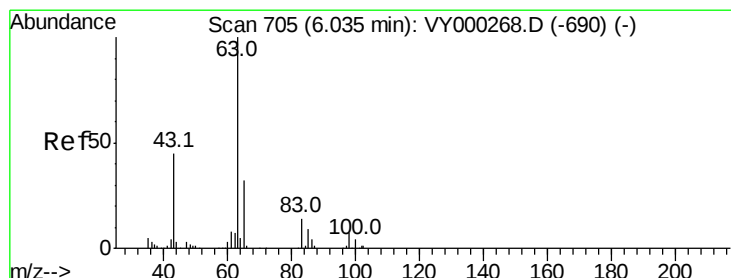
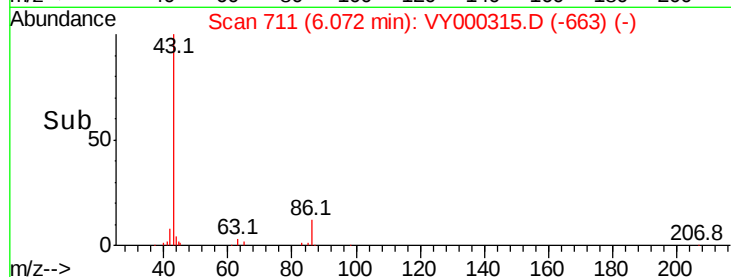
10000

5000

0

Time-->

6.00 6.10 6.20



#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

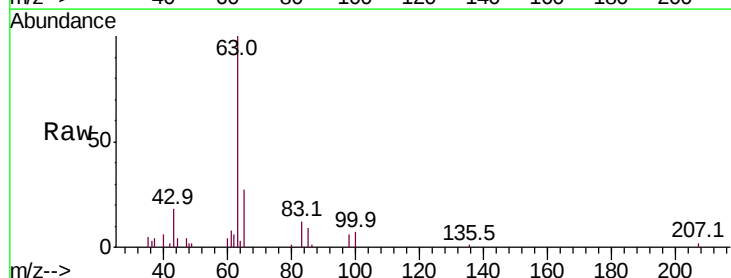
Tgt Ion: 63 Resp: 16711

Ion Ratio Lower Upper

63 100

98 5.9 3.5 10.4

100 6.5 2.1 6.2#



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0

6.03

6000

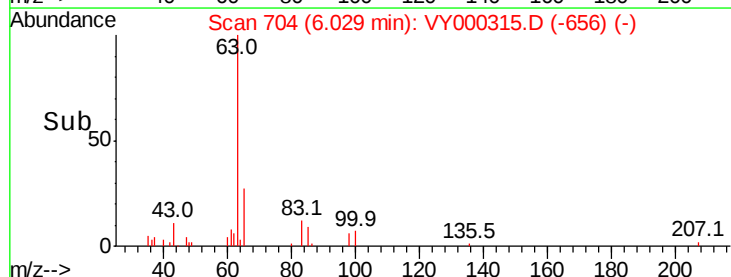
4000

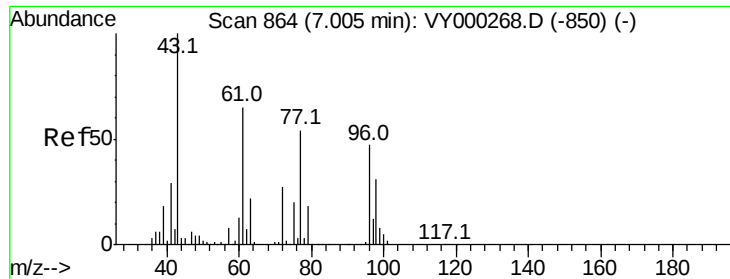
2000

0

Time-->

5.90 6.00 6.10





#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

Instrument :

MSVOA_Y

ClientSampleId :

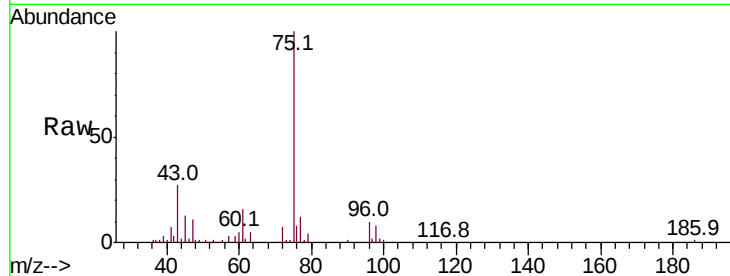
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 21217

Ion Ratio Lower Upper

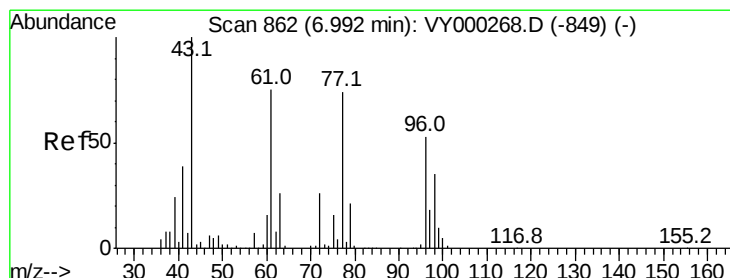
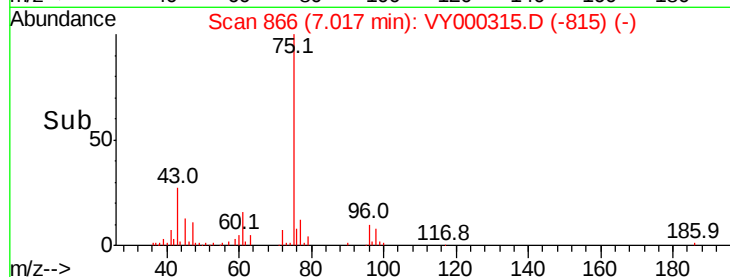
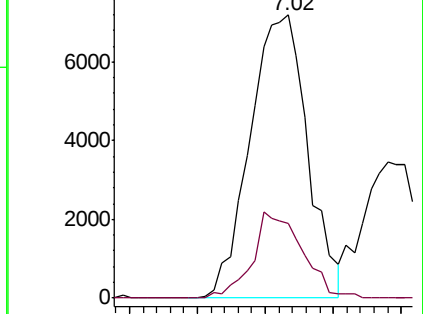
43 100

72 26.3 21.4 32.2



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#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

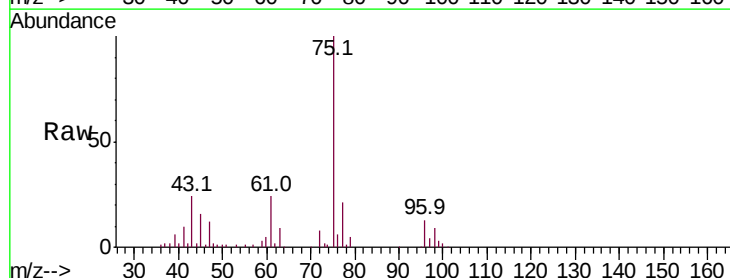
Acq: 15 Oct 2019 13:17

Tgt Ion: 77 Resp: 16734

Ion Ratio Lower Upper

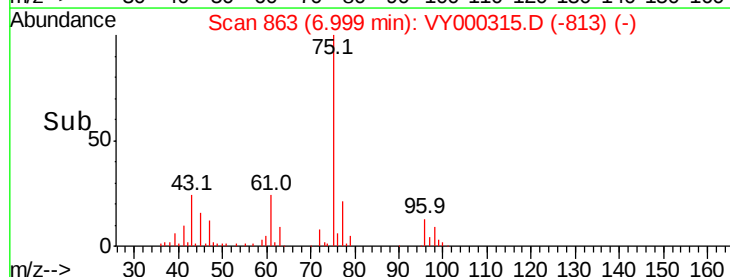
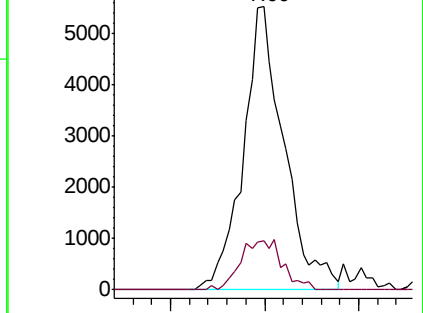
77 100

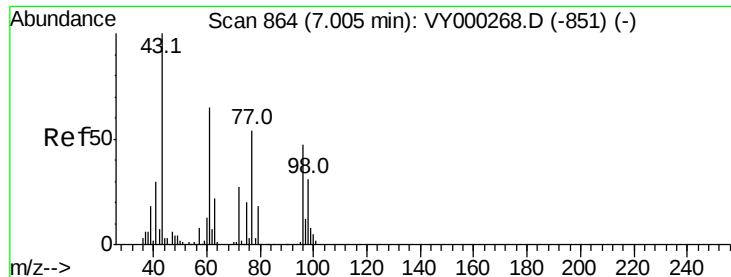
97 18.0 11.6 34.7



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0



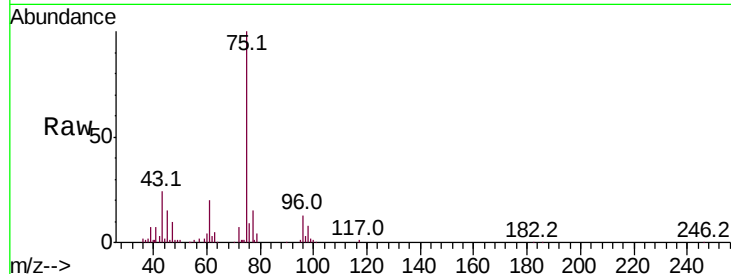


#27

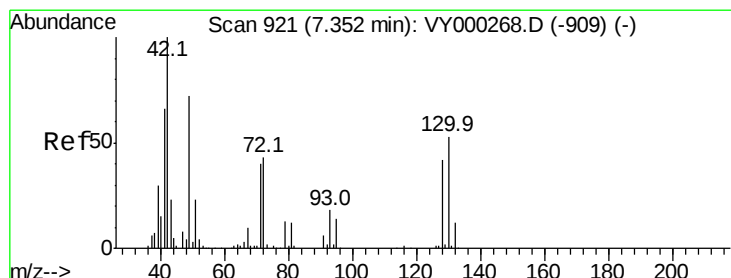
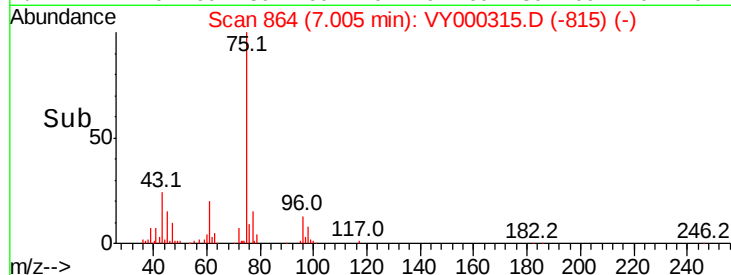
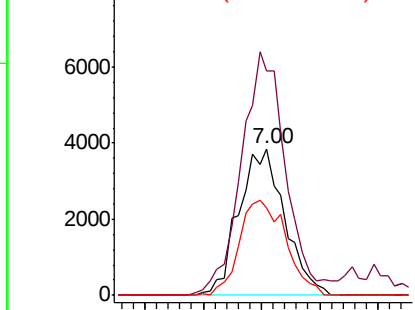
cis-1,2-Dichloroethene
Concen: 2.846 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

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

Tot Ion: 96 Resp: 10591
Ion Ratio Lower Upper
96 100
61 160.9 0.0 289.8
98 65.8 0.0 131.8



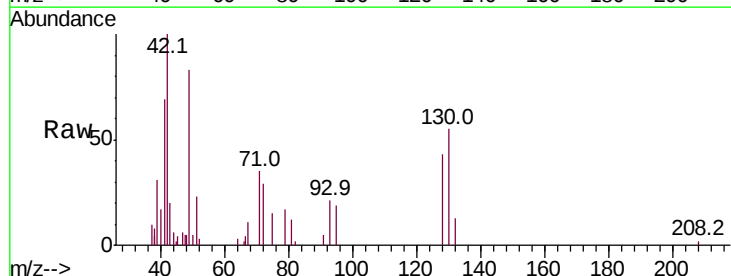
Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



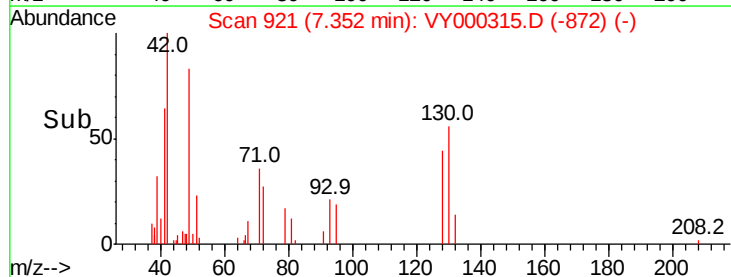
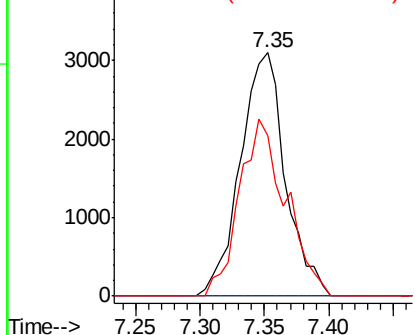
#28

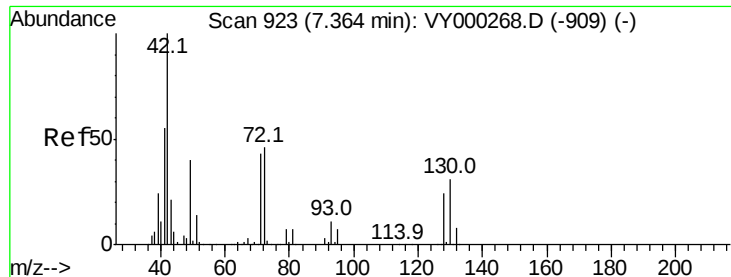
Bromochloromethane
Concen: 3.048 ug/l
RT: 7.35 min Scan# 921
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion: 49 Resp: 7505
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 75.0 58.2 87.2



Abundance Ion 48.90 (48.60 to 49.60): VY0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#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

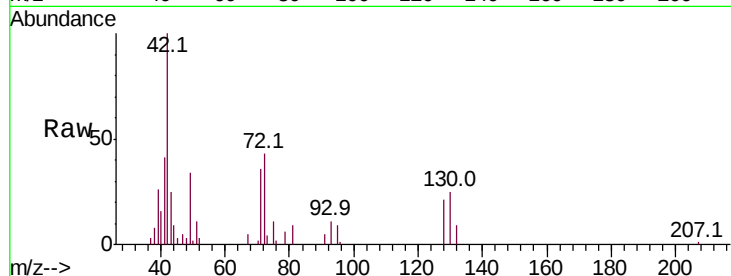
Tot Ion: 42 Resp: 13005

Ion Ratio Lower Upper

42 100

72 41.7 34.5 51.7

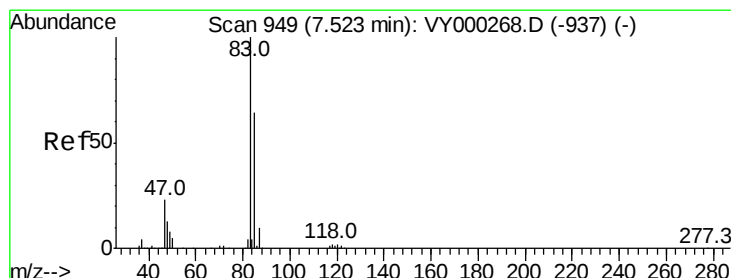
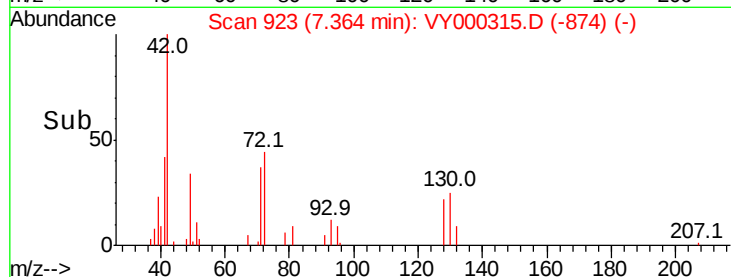
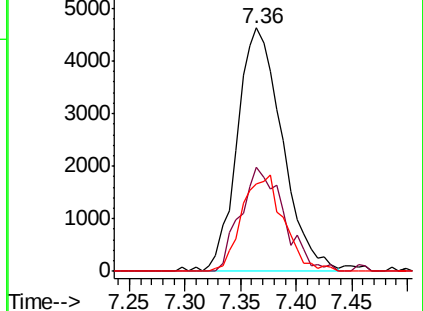
71 36.7 32.7 49.1



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0



#30

Chloroform

Concen: 3.051 ug/l

RT: 7.52 min Scan# 949

Delta R.T. 0.00 min

Lab File: VY000315.D

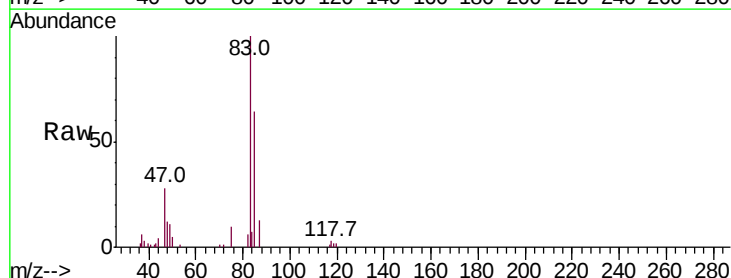
Acq: 15 Oct 2019 13:17

Tgt Ion: 83 Resp: 17620

Ion Ratio Lower Upper

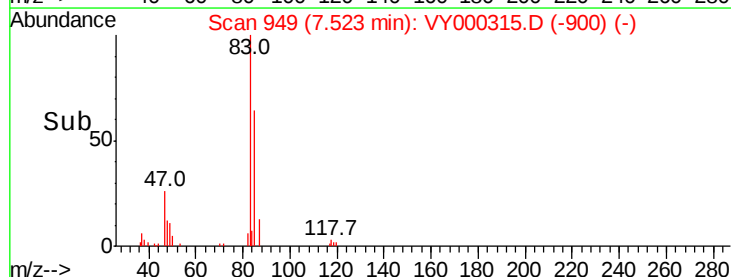
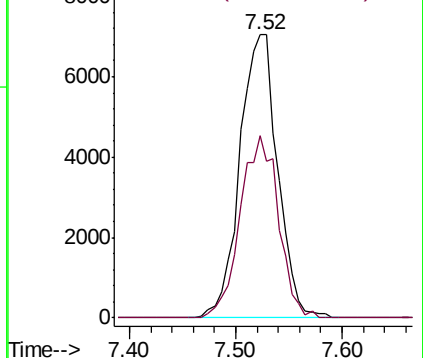
83 100

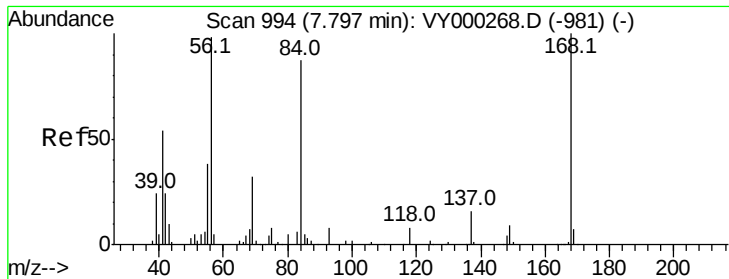
85 64.4 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

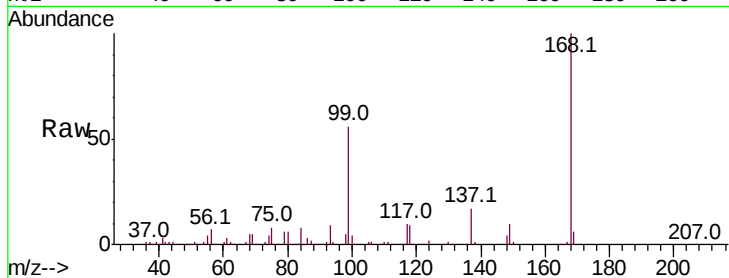




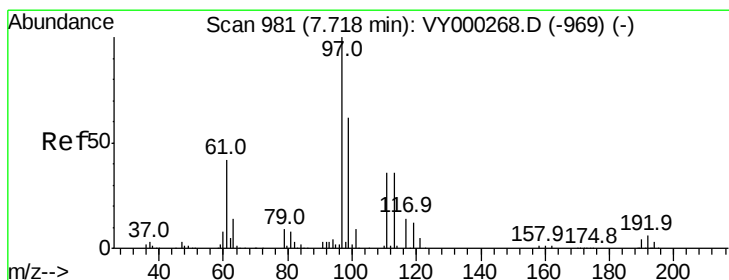
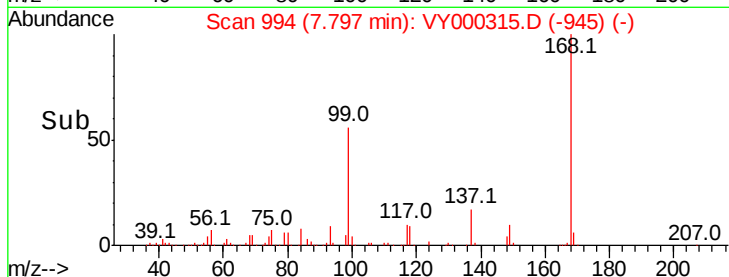
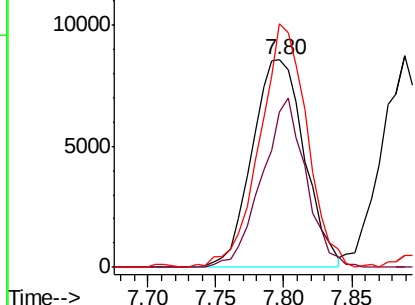
#31
Cyclohexane
Concen: 3.844 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

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#

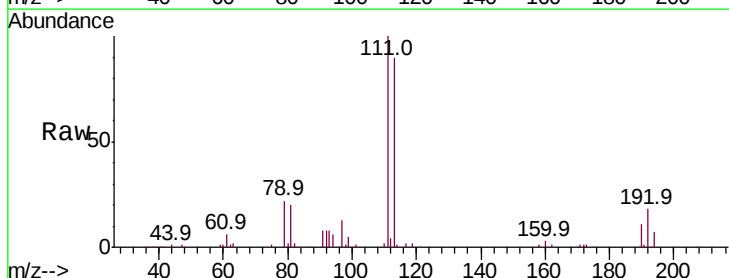


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

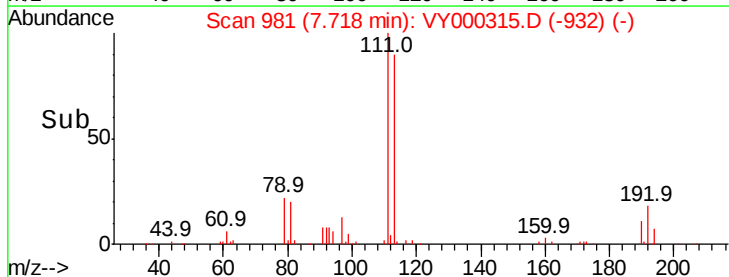
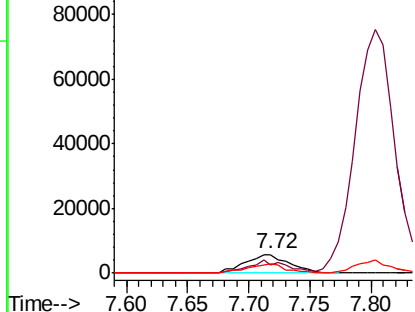


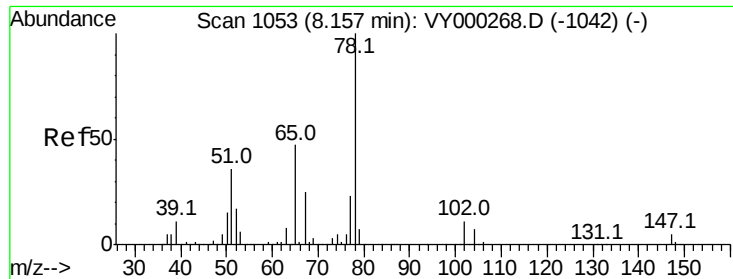
#32
1,1,1-Trichloroethane
Concen: 2.806 ug/l
RT: 7.72 min Scan# 981
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

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

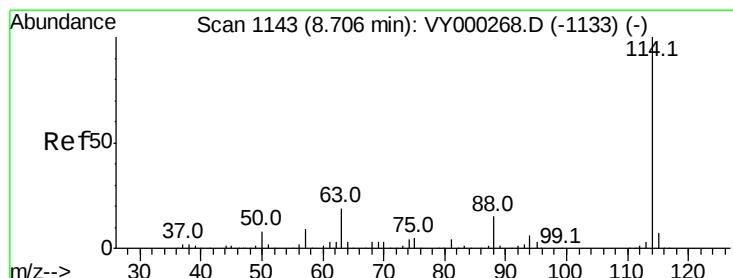
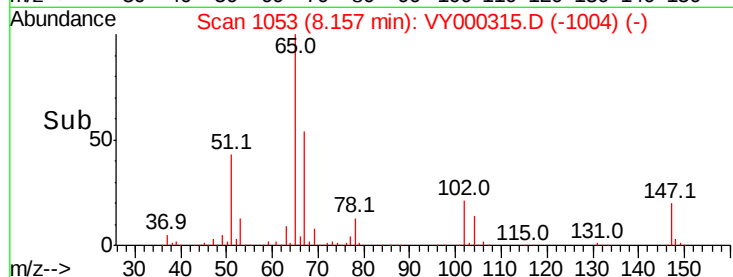
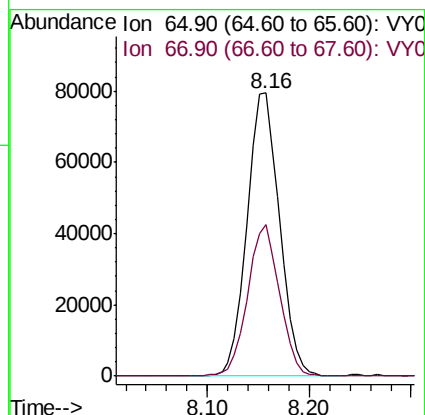
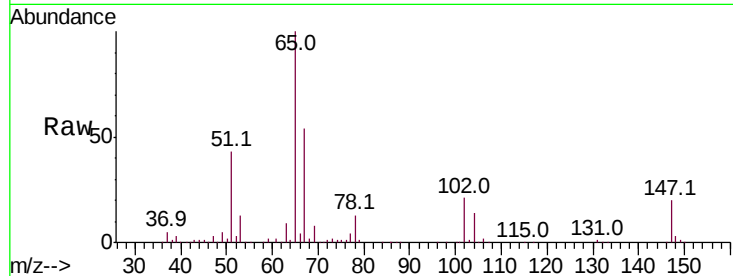




#33
 1,2-Dichloroethane-d4
 Concen: 56.426 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

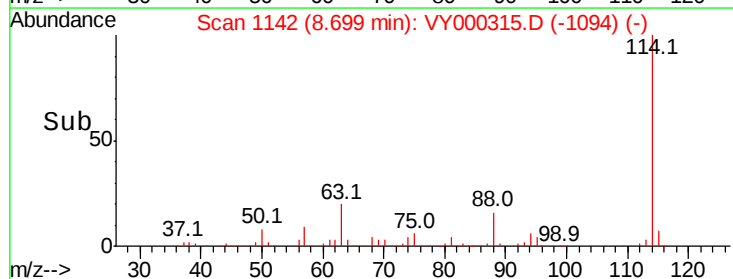
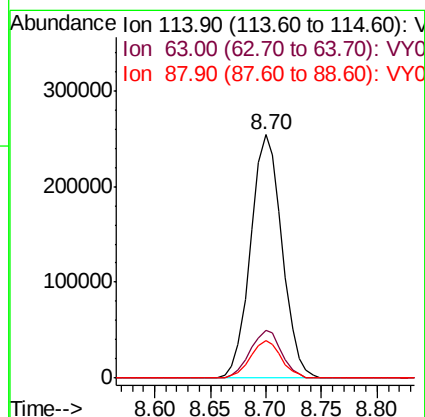
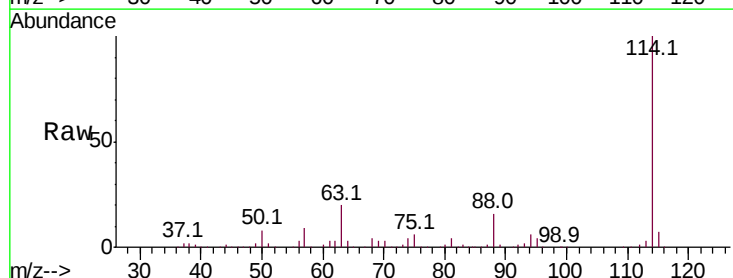
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

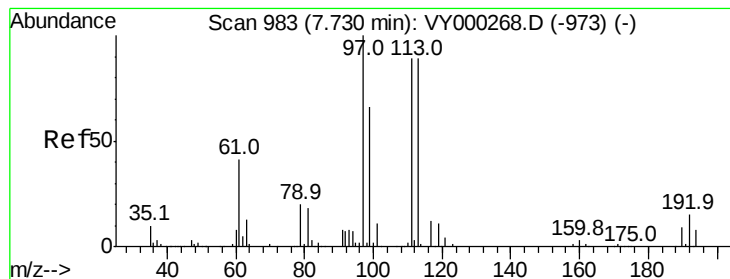
Tot Ion: 65 Resp: 176663
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 109.4



#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: 114 Resp: 499091
 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

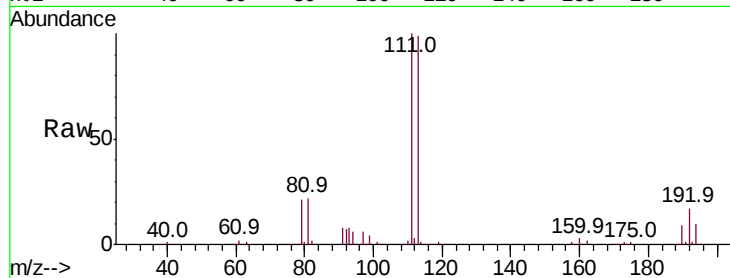
Tot Ion:113 Resp: 154301

Ion Ratio Lower Upper

113 100

111 103.9 81.6 122.4

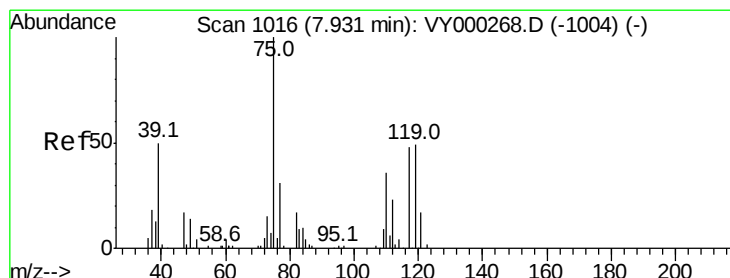
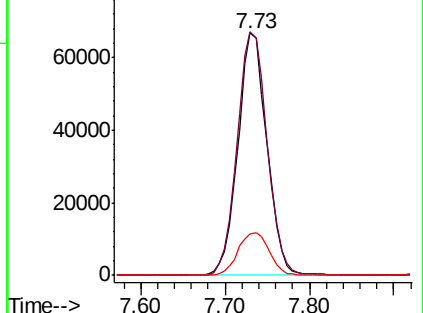
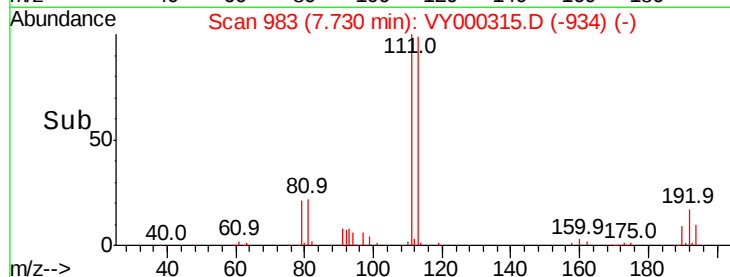
192 19.1 15.3 22.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#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

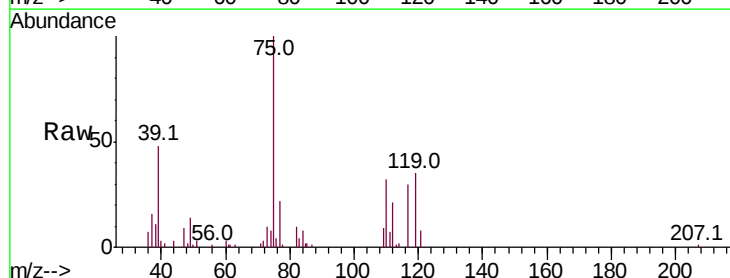
Tgt Ion: 75 Resp: 14684

Ion Ratio Lower Upper

75 100

110 32.4 18.4 55.4

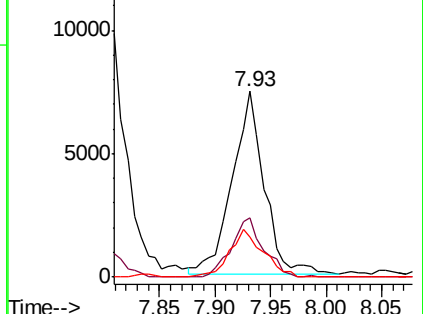
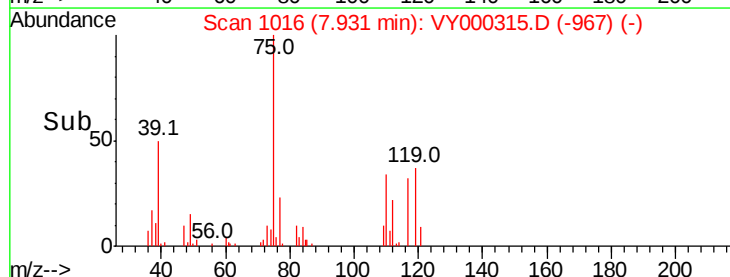
77 27.4 25.0 37.6

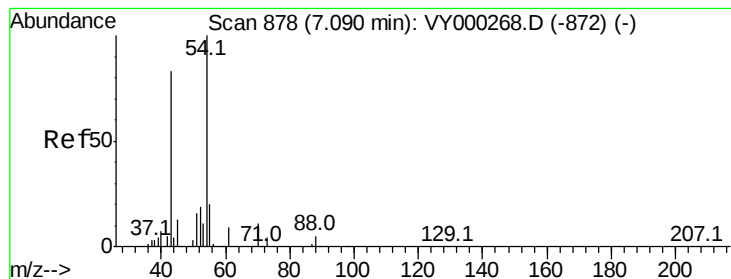


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#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

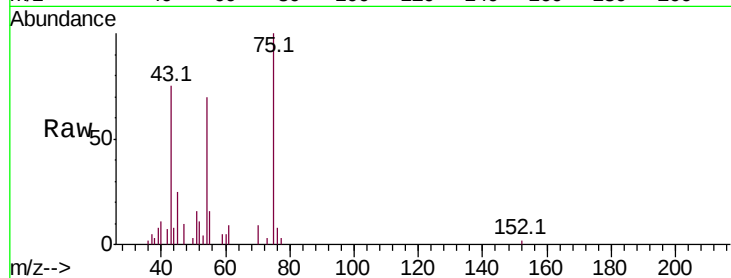
Tot Ion: 43 Resp: 10743

Ion Ratio Lower Upper

43 100

61 11.0 12.1 18.1#

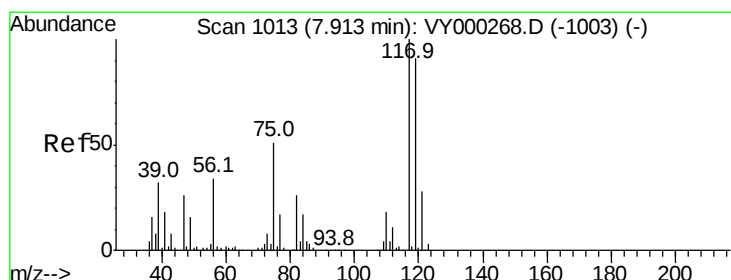
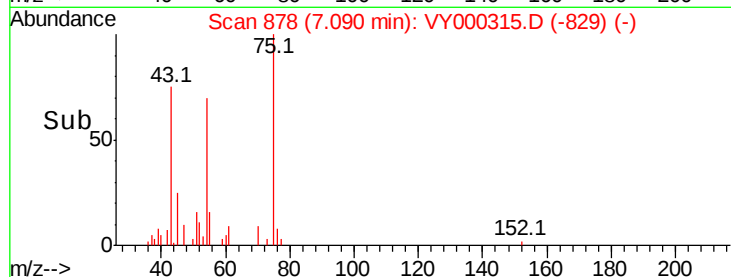
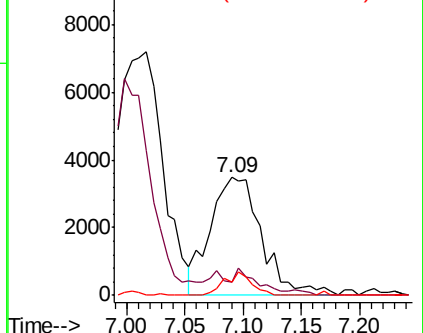
70 10.3 8.7 13.1



Abundance Ion 43.00 (42.70 to 43.70): VY000315.D (-964) (-)

Ion 60.90 (60.60 to 61.60): VY000315.D (-964) (-)

Ion 70.00 (69.70 to 70.70): VY000315.D (-964) (-)



#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

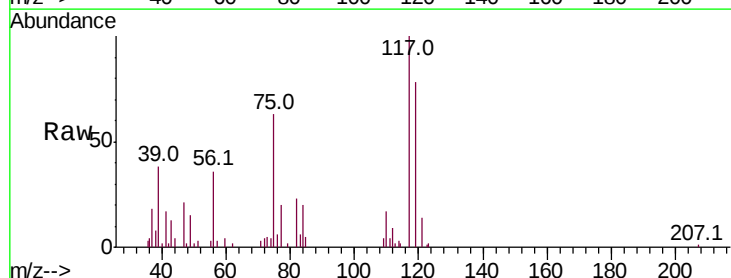
Tgt Ion: 117 Resp: 13261

Ion Ratio Lower Upper

117 100

119 78.1 72.8 109.2

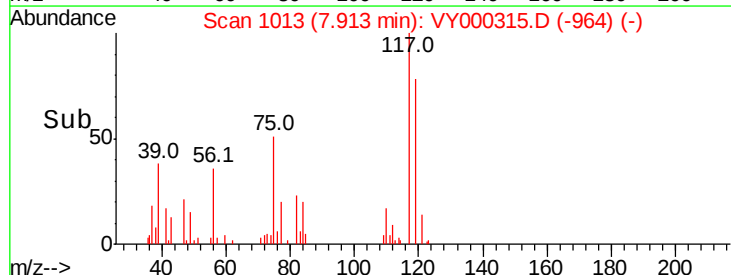
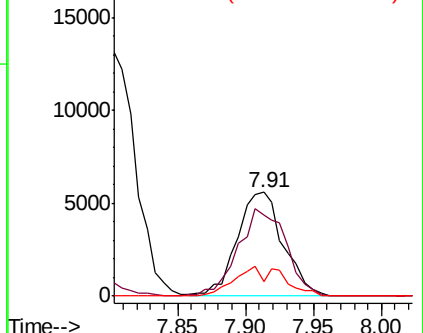
121 13.8 22.2 33.2#

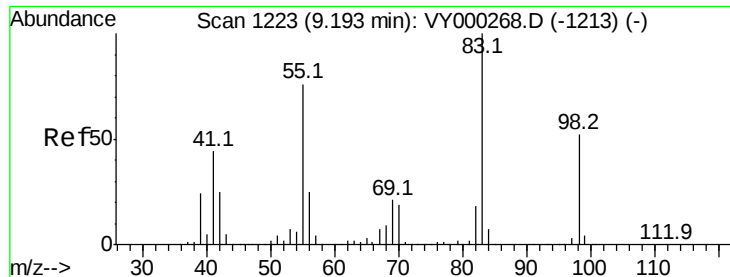


Abundance Ion 116.80 (116.50 to 117.50): VY000315.D (-964) (-)

Ion 118.80 (118.50 to 119.50): VY000315.D (-964) (-)

Ion 120.80 (120.50 to 121.50): VY000315.D (-964) (-)

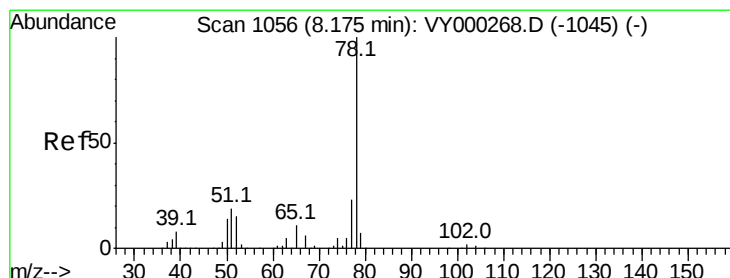
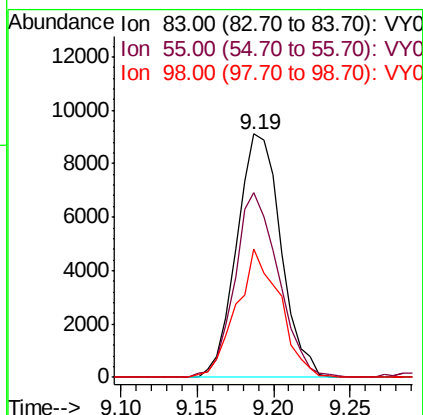
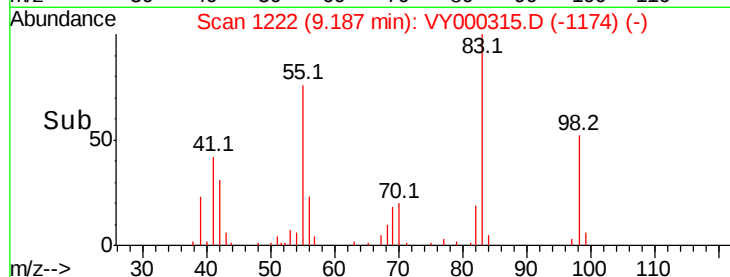
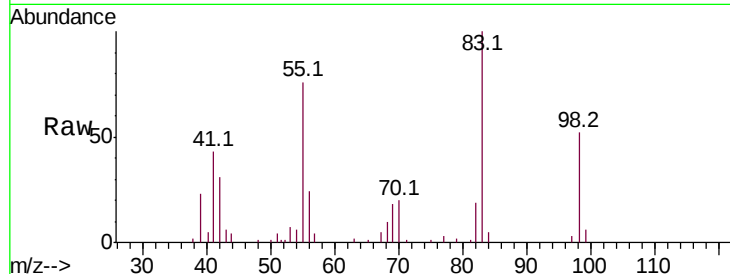




#39
Methvlcvclohexane
Concen: 2.861 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

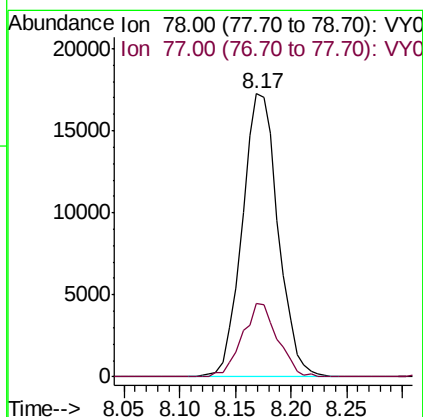
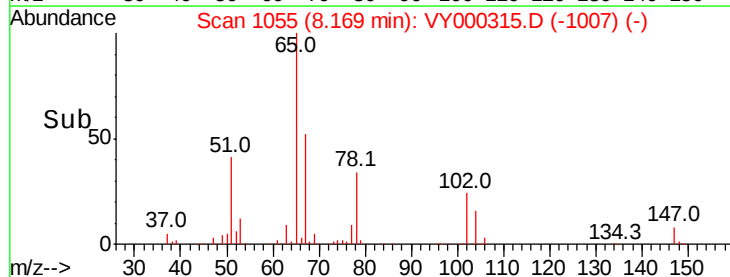
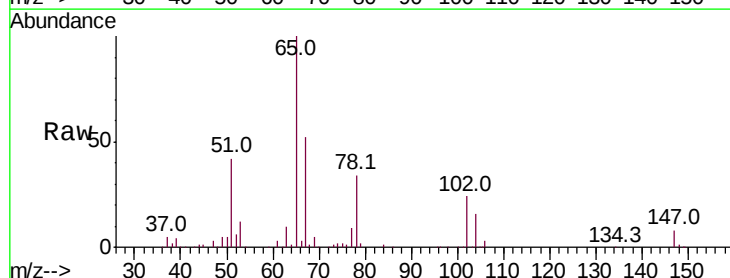
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

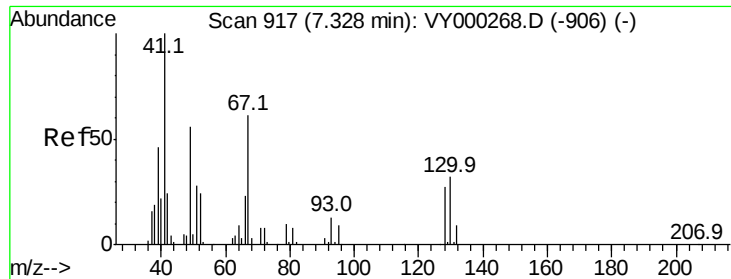
Tot Ion: 83 Resp: 18294
Ion Ratio Lower Upper
83 100
55 75.8 60.9 91.3
98 52.5 41.8 62.6



#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: 78 Resp: 38696
Ion Ratio Lower Upper
78 100
77 26.0 18.8 28.2

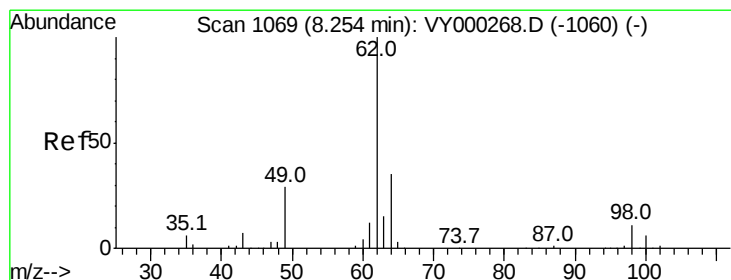
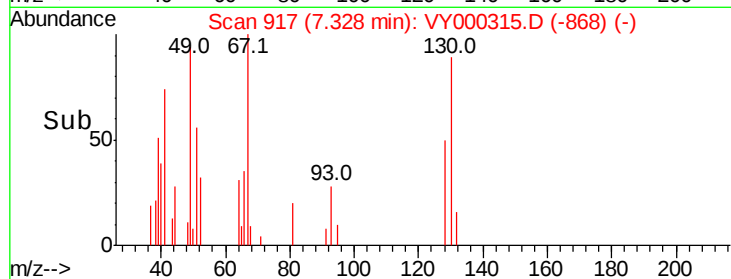
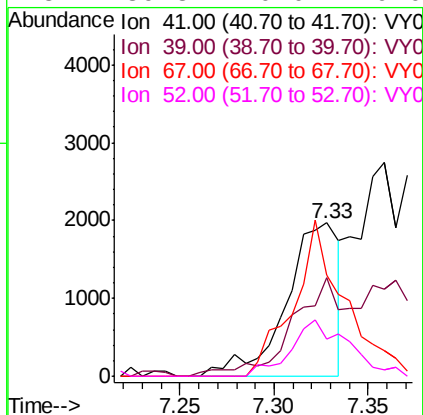
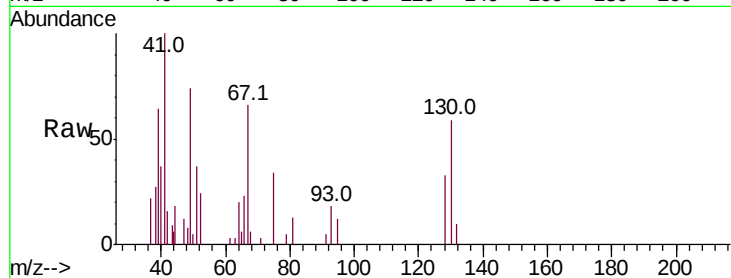




#41
Methacrylonitrile
Concen: 2.797 ug/l
RT: 7.33 min Scan# 917
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

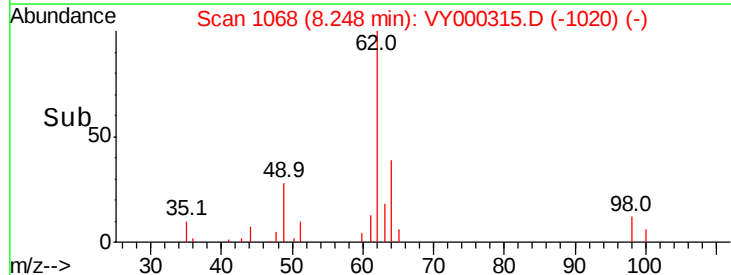
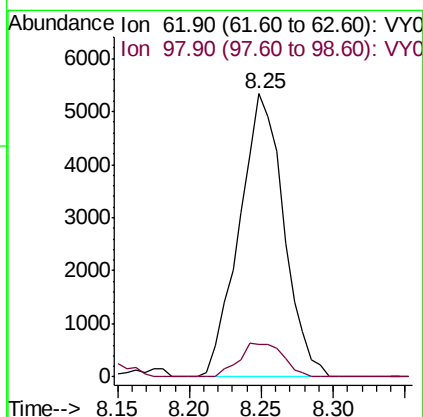
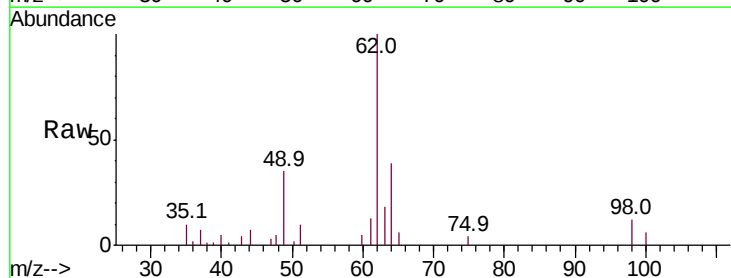
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

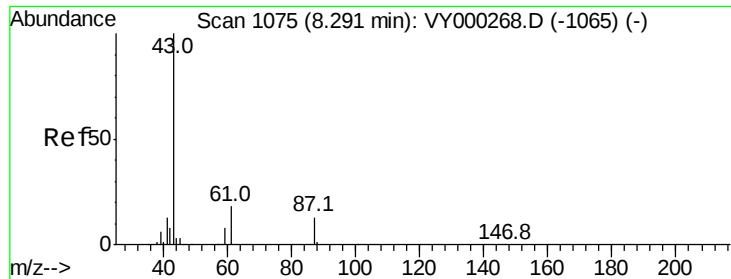
Tot Ion: 41 Resp: 3852
Ion Ratio Lower Upper
41 100
39 71.7 110.2 165.2#
67 97.4 0.0 0.0#
52 39.8 0.0 0.0#



#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: 62 Resp: 11403
Ion Ratio Lower Upper
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

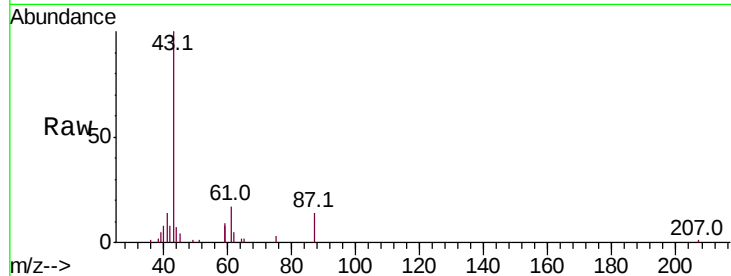
Tot Ion: 43 Resp: 15252

Ion Ratio Lower Upper

43 100

61 32.5 22.3 33.5

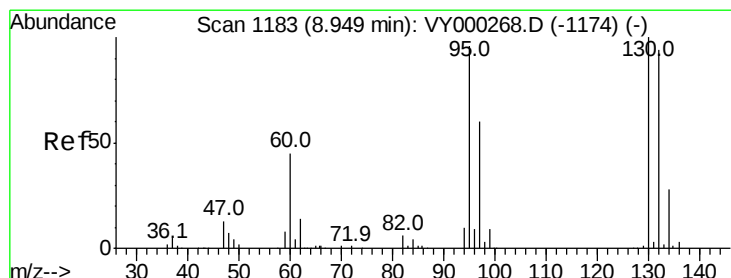
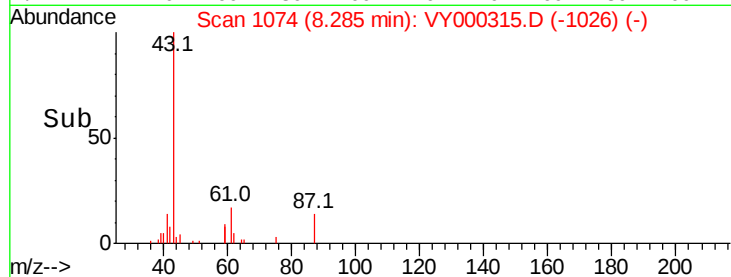
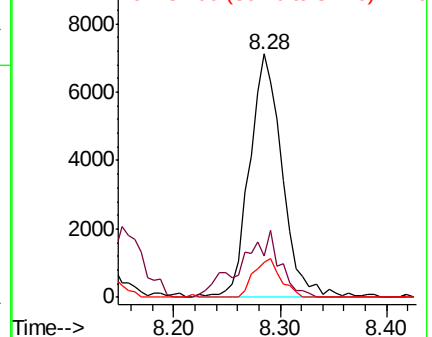
87 13.2 10.9 16.3



Abundance Ion 43.00 (42.70 to 43.70): VY000315.D (-1074) (-)

Ion 61.00 (60.70 to 61.70): VY000315.D (-1074) (-)

Ion 87.00 (86.70 to 87.70): VY000315.D (-1074) (-)



#44

Trichloroethene

Concen: 2.628 ug/l

RT: 8.95 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VY000315.D

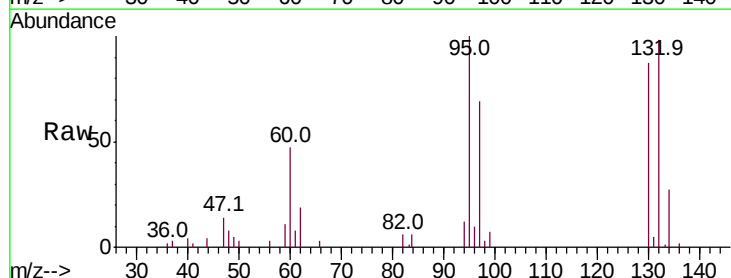
Acq: 15 Oct 2019 13:17

Tgt Ion:130 Resp: 10413

Ion Ratio Lower Upper

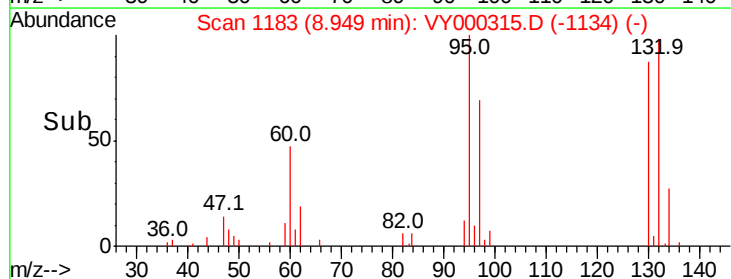
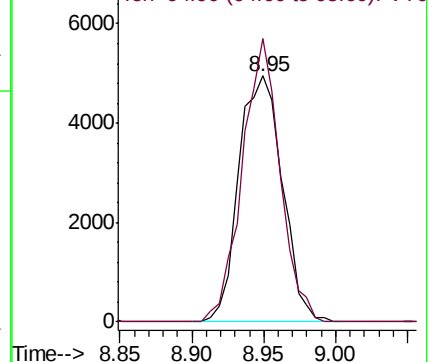
130 100

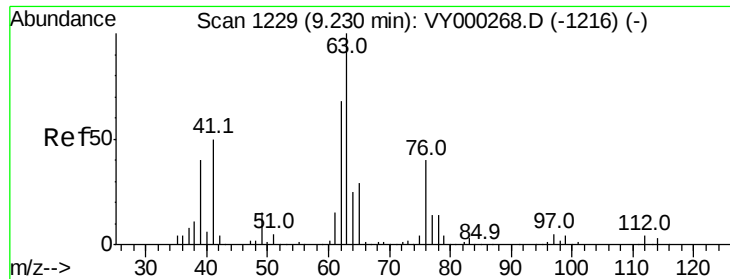
95 115.0 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): VY000315.D (-1183) (-)

Ion 94.90 (94.60 to 95.60): VY000315.D (-1183) (-)





#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 :

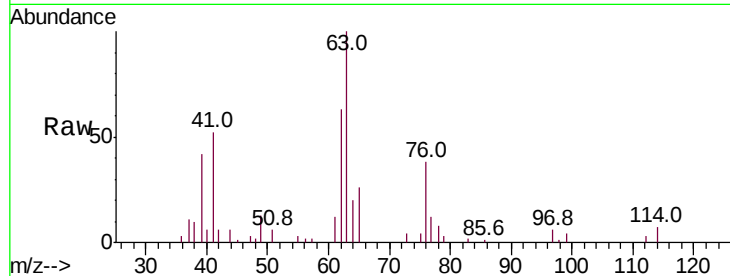
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 63 Resp: 10293

Ion Ratio Lower Upper

63 100

65 25.8 23.2 34.8



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 64.90 (64.60 to 65.60): VY0

9.23

6000

5000

4000

3000

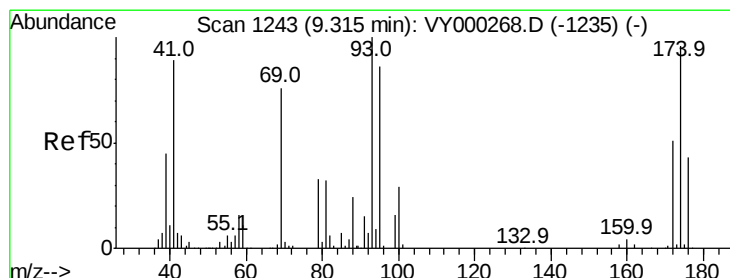
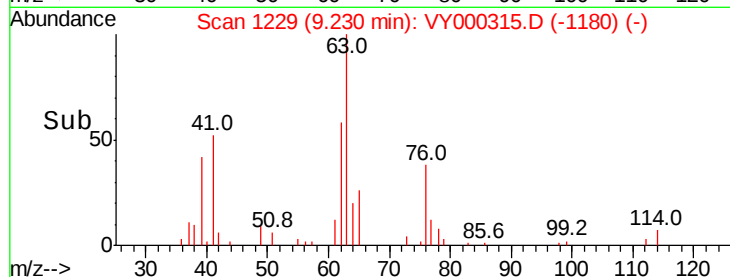
2000

1000

0

9.15 9.20 9.25 9.30

Time-->



#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

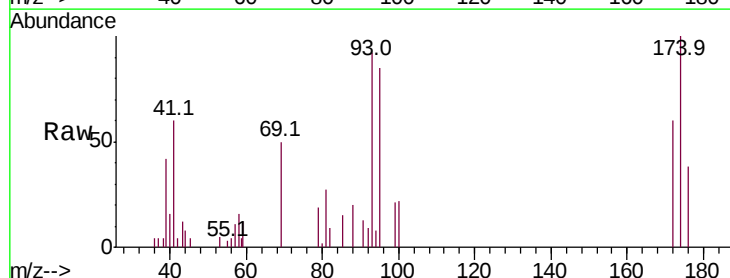
Tgt Ion: 93 Resp: 5396

Ion Ratio Lower Upper

93 100

95 90.1 68.2 102.2

174 101.8 79.8 119.6



Abundance Ion 92.80 (92.50 to 93.50): VY0

Ion 94.80 (94.50 to 95.50): VY0

Ion 173.70 (173.40 to 174.40): V

4000

3000

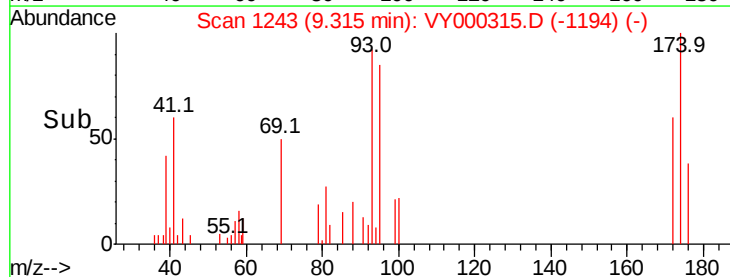
2000

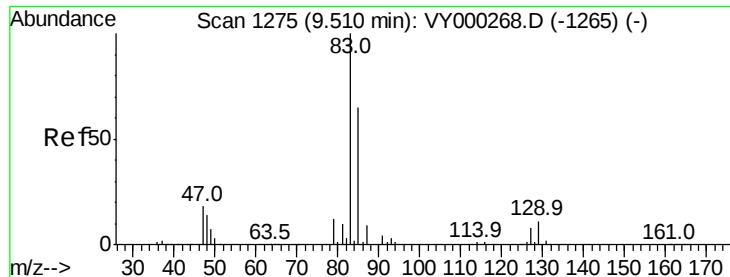
1000

0

9.25 9.30 9.35

Time-->





#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

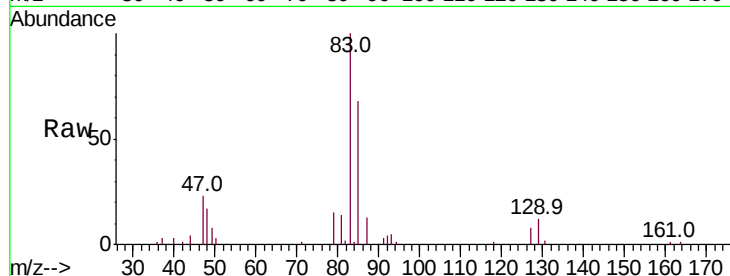
Tot Ion: 83 Resp: 12280

Ion Ratio Lower Upper

83 100

85 67.5 52.2 78.2

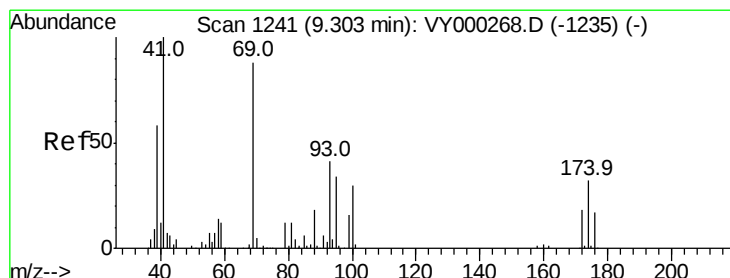
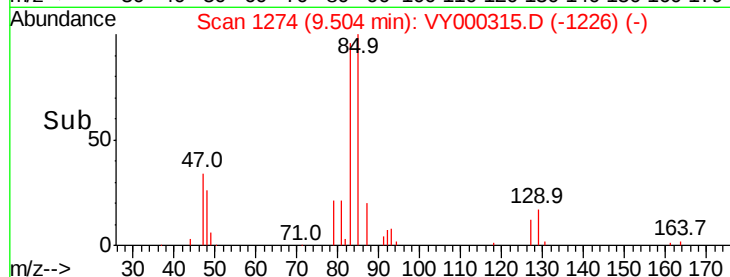
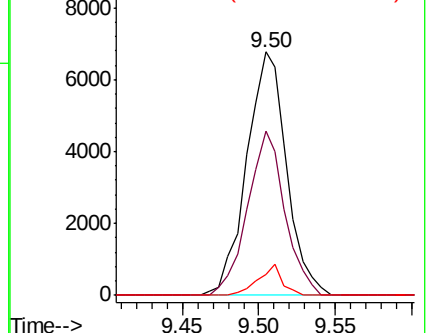
127 8.4 6.3 9.5



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 126.80 (126.50 to 127.50): VY0



#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

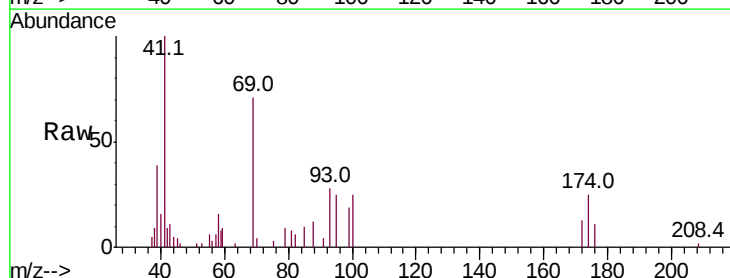
Tgt Ion: 41 Resp: 7451

Ion Ratio Lower Upper

41 100

69 79.8 70.0 105.0

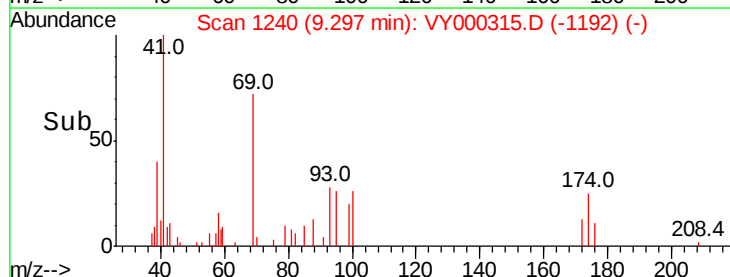
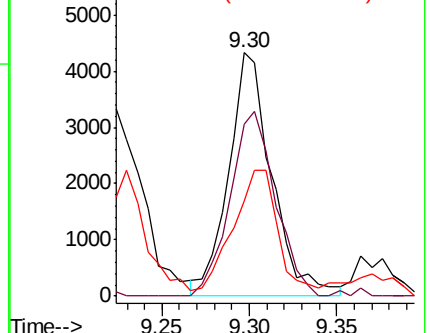
39 51.4 47.7 71.5

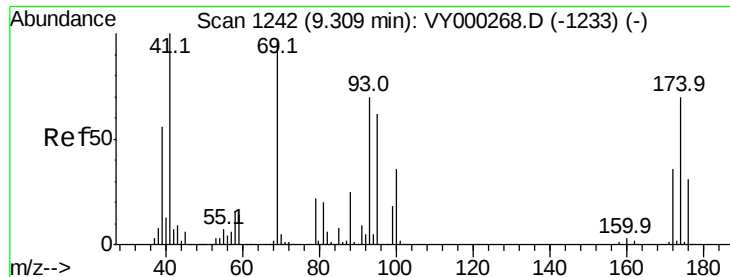


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 39.00 (38.70 to 39.70): VY0





#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

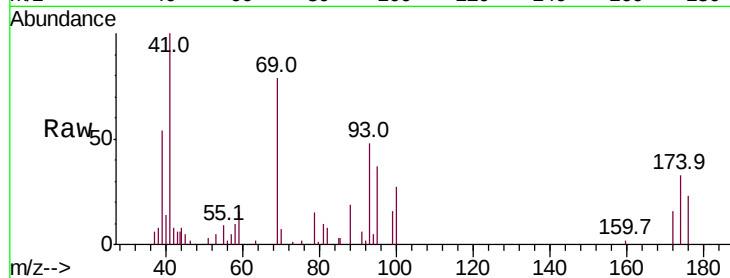
Tot Ion: 88 Resp: 1762

Ion Ratio Lower Upper

88 100

43 54.6 25.6 38.4#

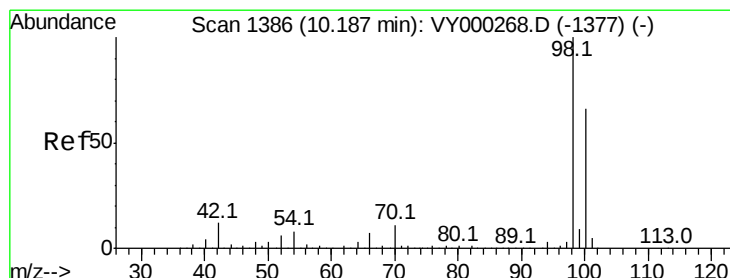
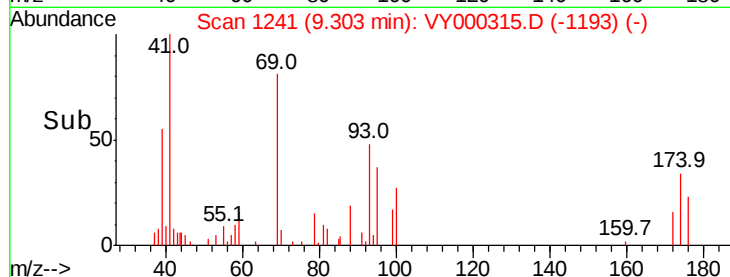
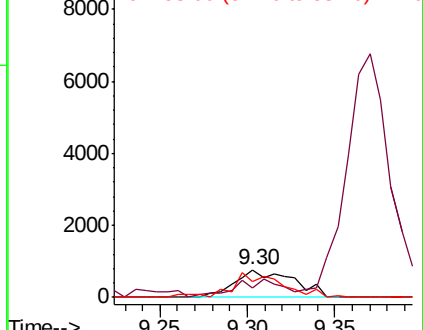
58 72.0 54.6 81.8



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



#50

Toluene-d8

Concen: 53.835 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VY000315.D

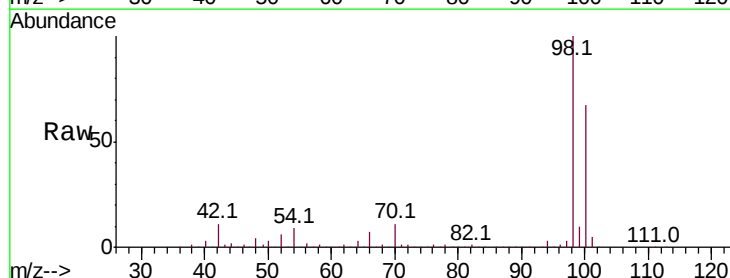
Acq: 15 Oct 2019 13:17

Tgt Ion: 98 Resp: 623456

Ion Ratio Lower Upper

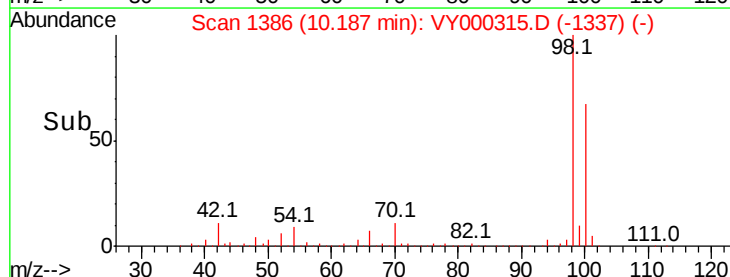
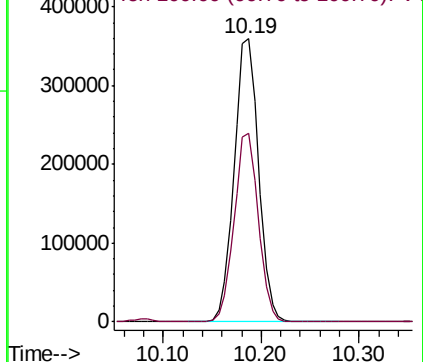
98 100

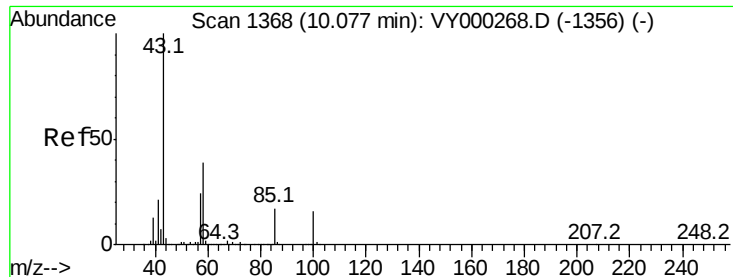
100 65.7 52.8 79.2



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 :

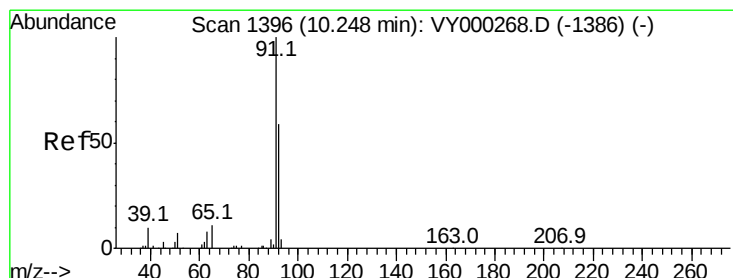
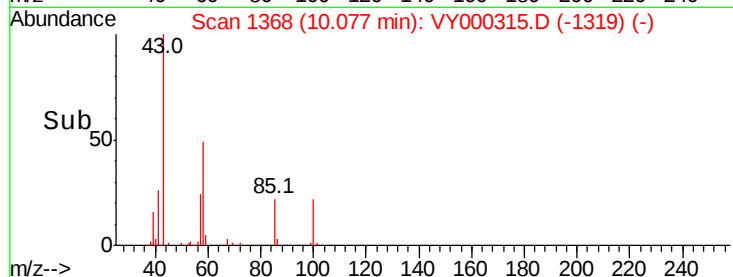
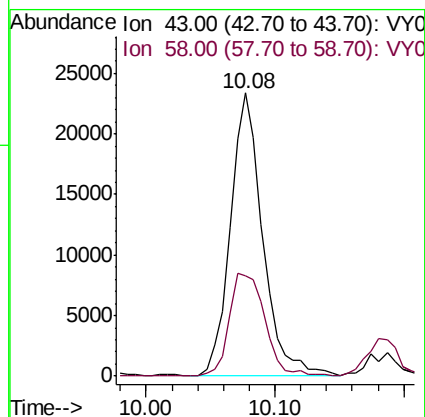
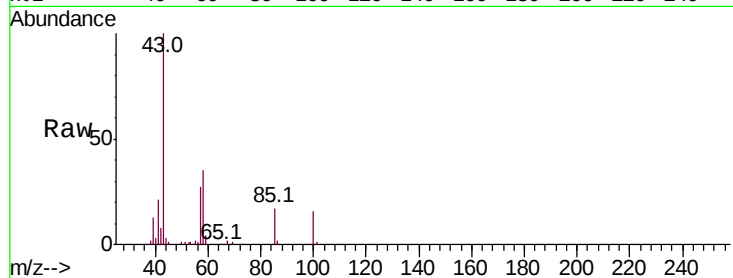
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 41132

Ion Ratio Lower Upper

43 100

58 39.9 31.0 46.6



#52

Toluene

Concen: 2.834 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.00 min

Lab File: VY000315.D

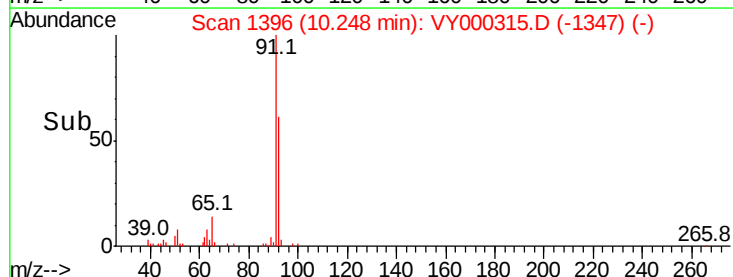
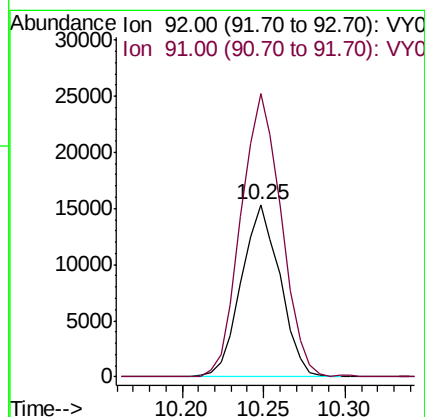
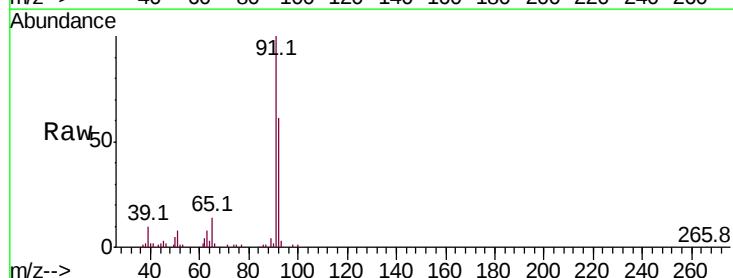
Acq: 15 Oct 2019 13:17

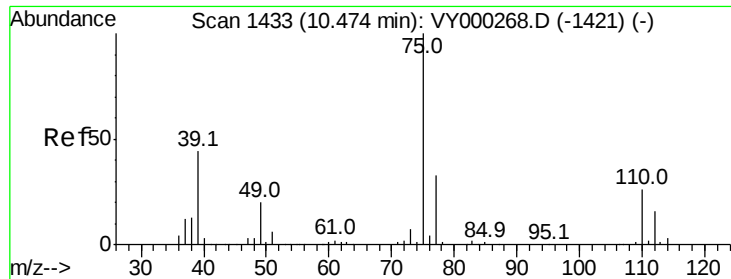
Tgt Ion: 92 Resp: 25408

Ion Ratio Lower Upper

92 100

91 170.8 136.6 205.0





#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 :

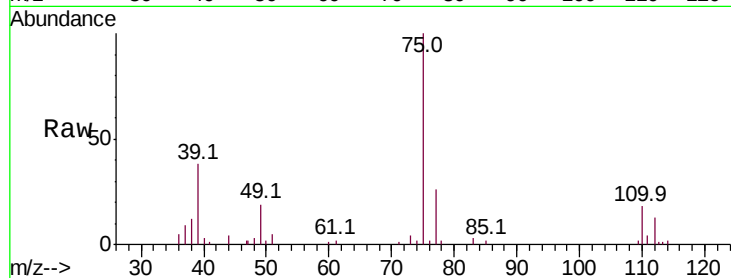
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 75 Resp: 13580

Ion Ratio Lower Upper

75 100

77 25.5 26.0 39.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0

10.47

8000

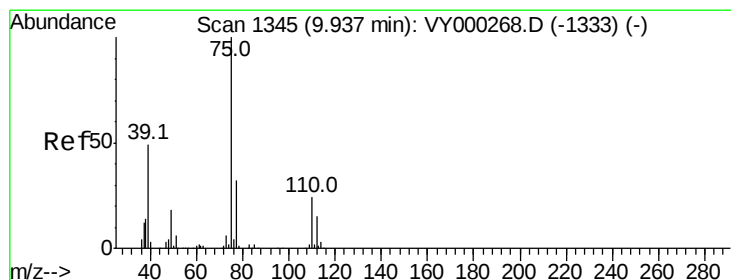
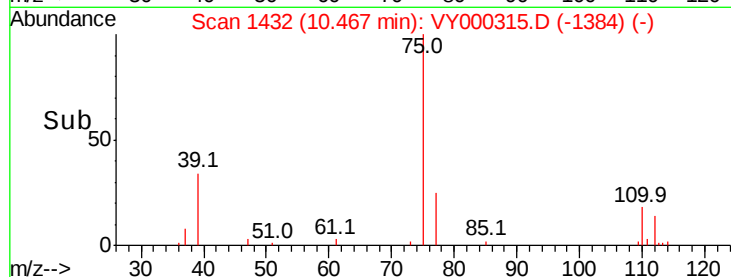
6000

4000

2000

0

Time-->



#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

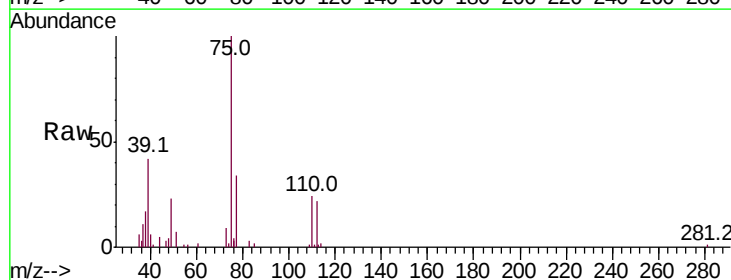
Tgt Ion: 75 Resp: 14818

Ion Ratio Lower Upper

75 100

77 33.8 26.0 39.0

39 41.7 38.8 58.2



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0

Ion 39.00 (38.70 to 39.70): VY0

9.93

8000

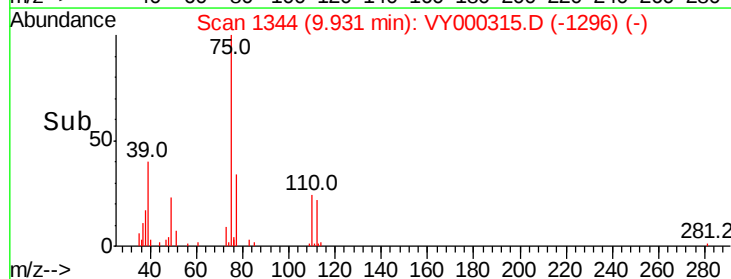
6000

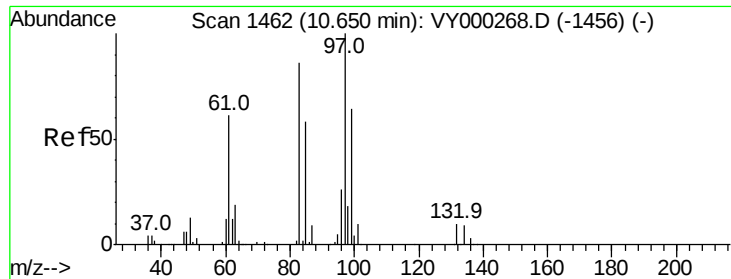
4000

2000

0

Time-->

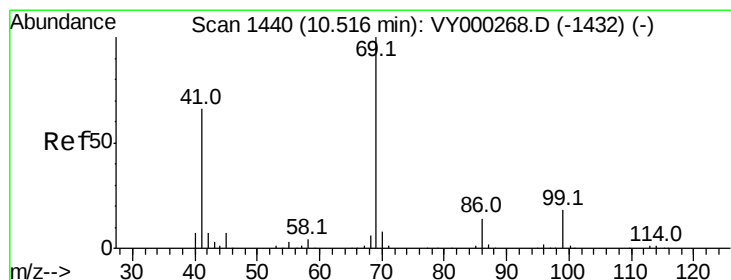
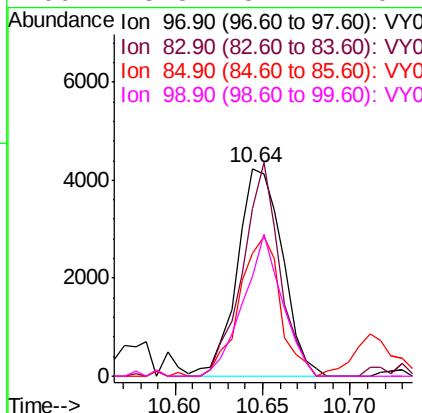
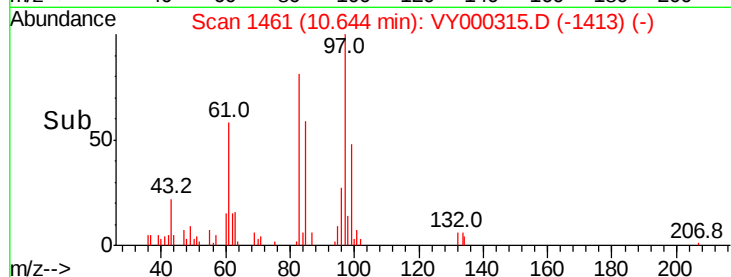
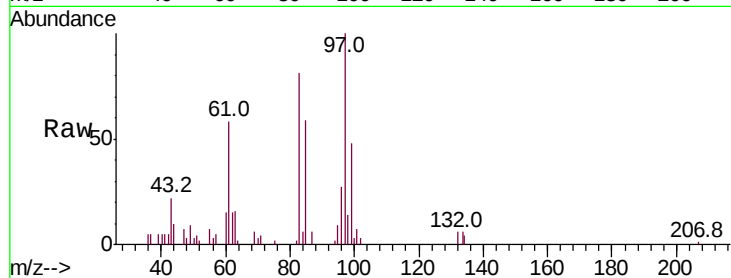




#55
 1,1,2-Trichloroethane
 Concen: 2.700 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

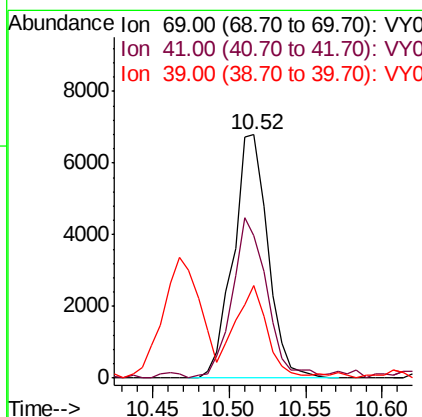
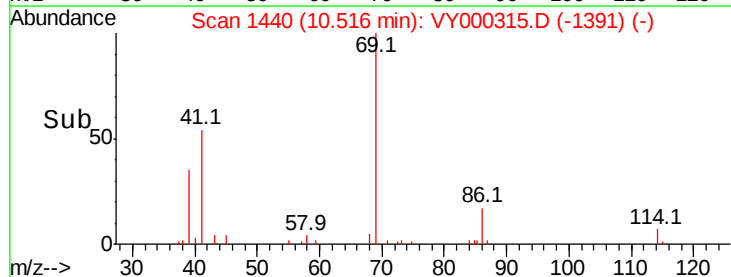
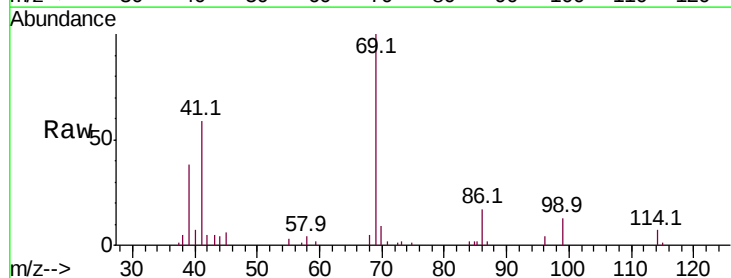
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

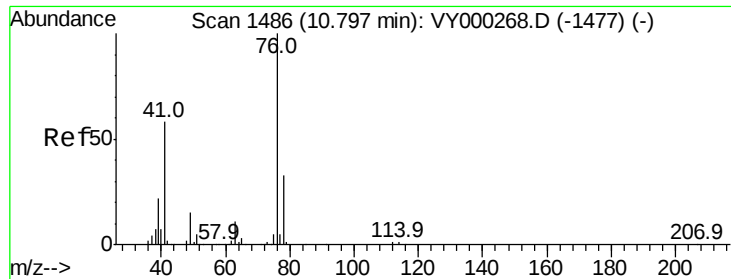
Tot Ion: 97 Resp: 7605
 Ion Ratio Lower Upper
 97 100
 83 80.5 69.0 103.6
 85 59.1 46.2 69.4
 99 48.3 51.1 76.7#



#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 :

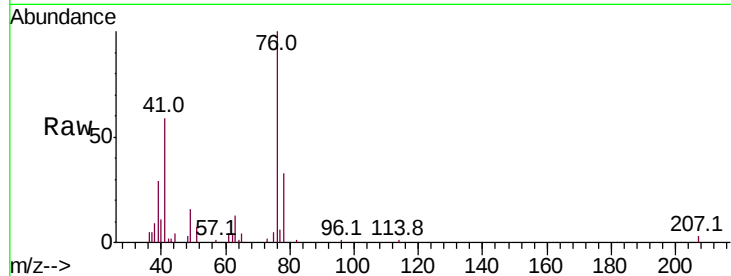
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 76 Resp: 13192

Ion Ratio Lower Upper

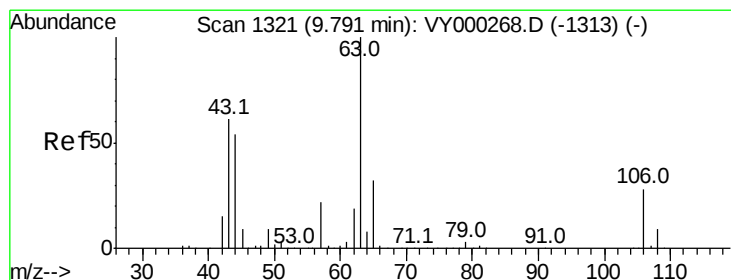
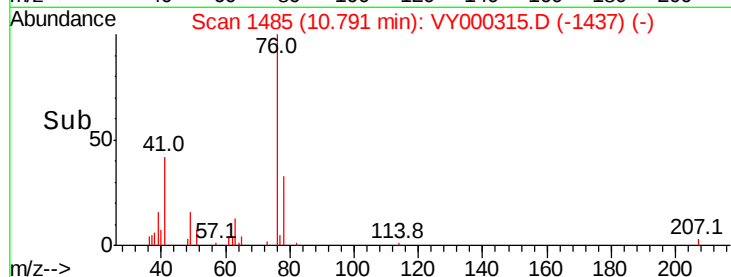
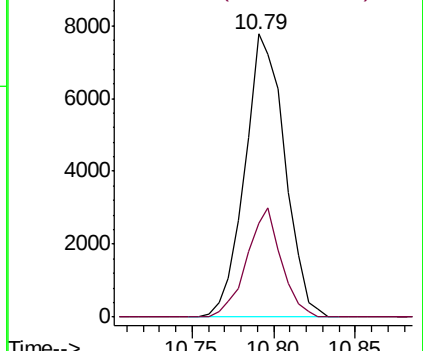
76 100

78 33.4 26.2 39.2



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#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

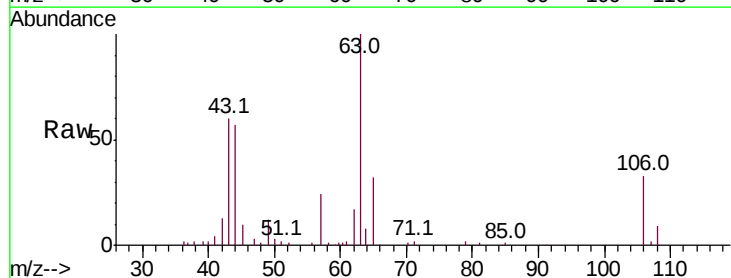
Acq: 15 Oct 2019 13:17

Tgt Ion: 63 Resp: 27602

Ion Ratio Lower Upper

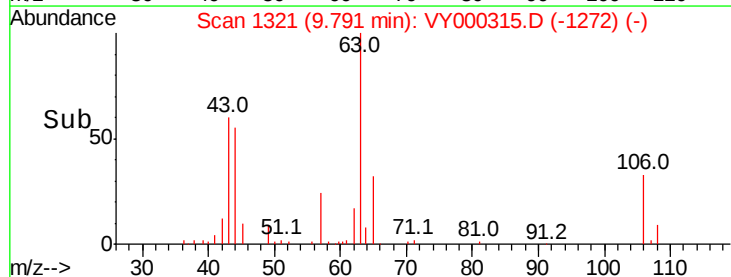
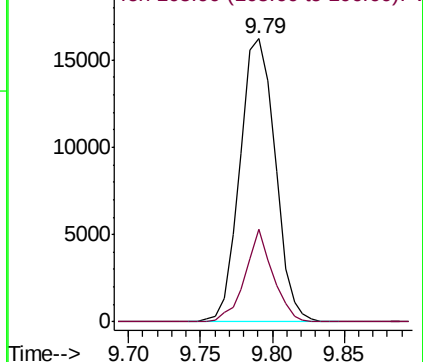
63 100

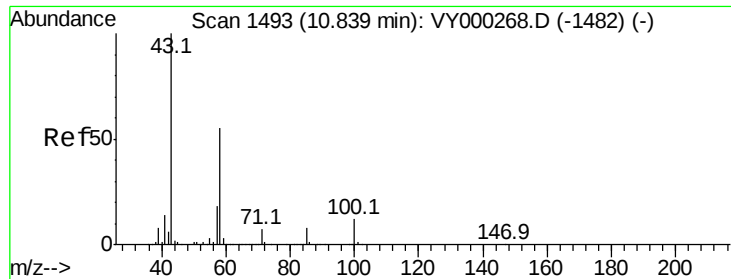
106 25.6 23.0 34.4



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V

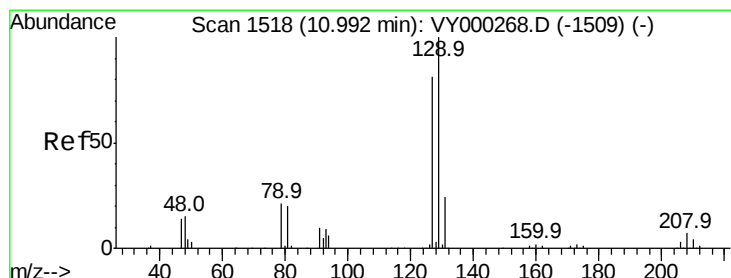
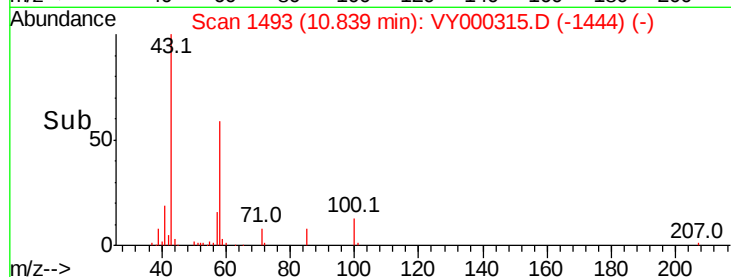
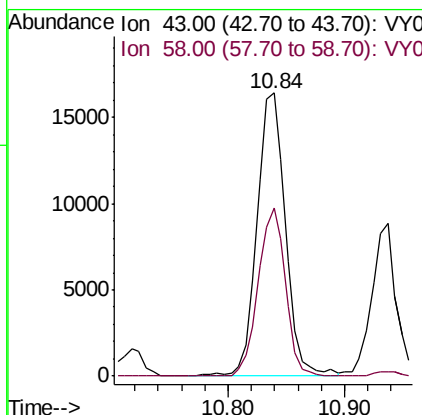
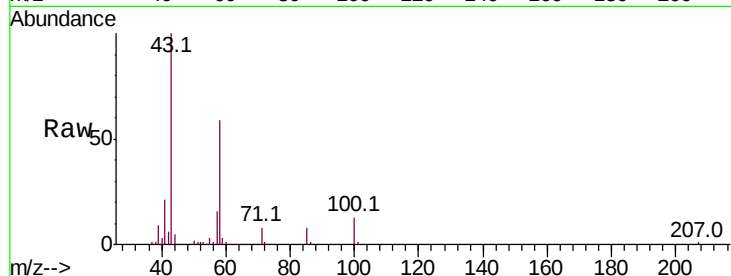




#59
2-Hexanone
Concen: 14.075 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

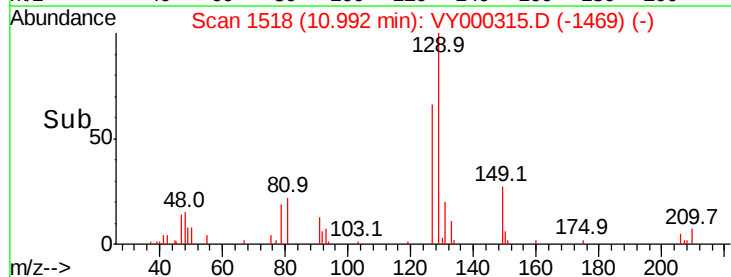
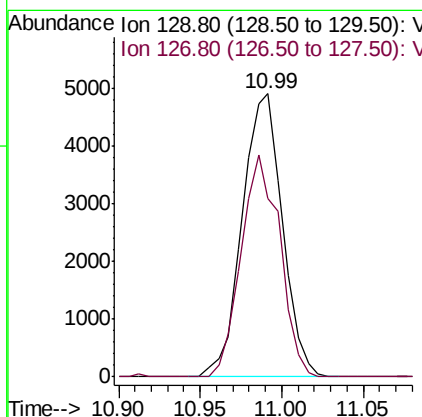
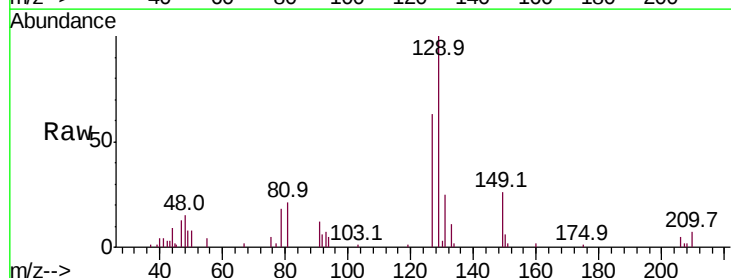
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

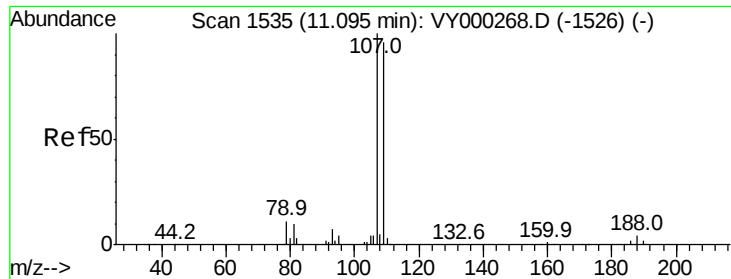
Tot Ion: 43 Resp: 28033
Ion Ratio Lower Upper
43 100
58 56.5 27.7 83.1



#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 :

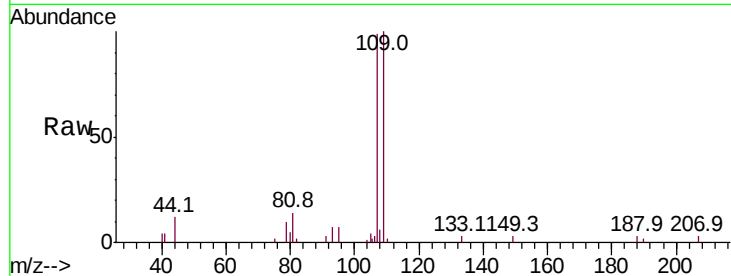
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:107 Resp: 7094

Ion Ratio Lower Upper

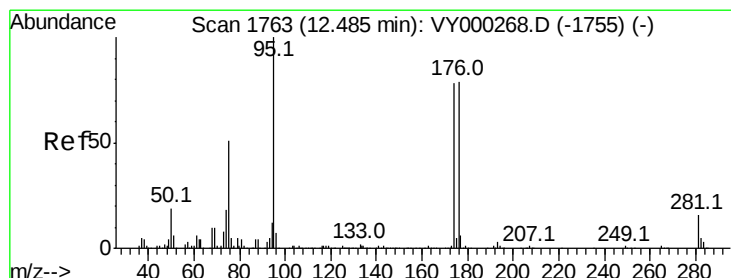
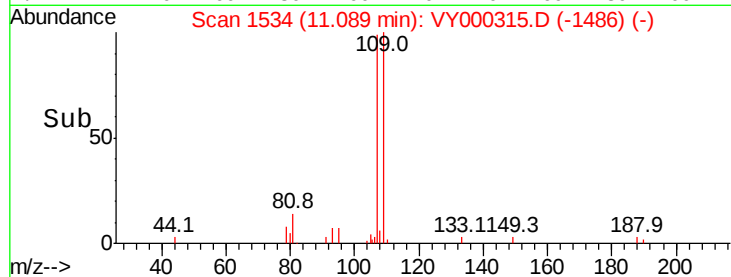
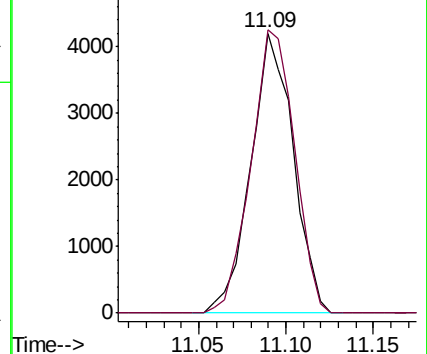
107 100

109 103.6 75.1 112.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#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

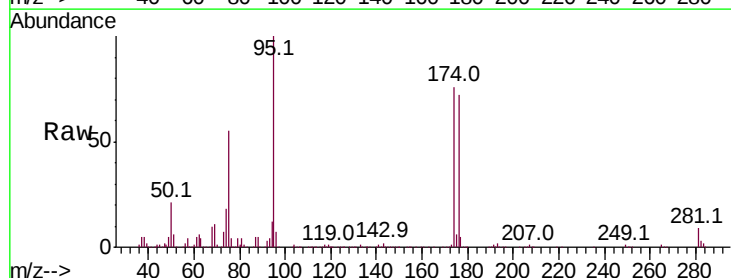
Tgt Ion: 95 Resp: 220693

Ion Ratio Lower Upper

95 100

174 77.4 0.0 159.6

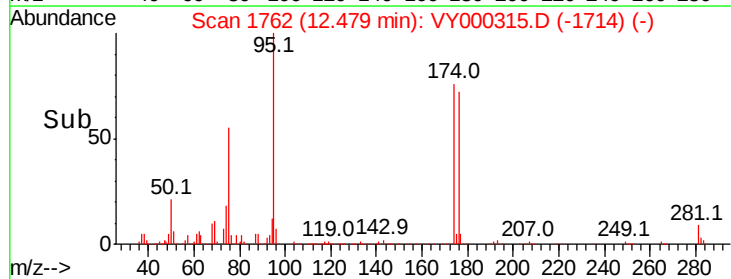
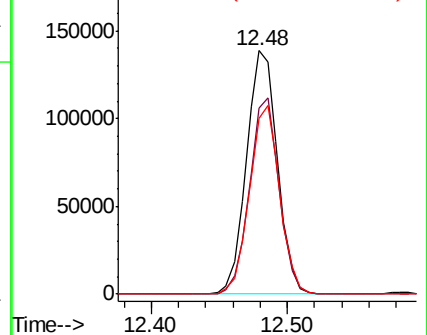
176 75.1 0.0 153.8

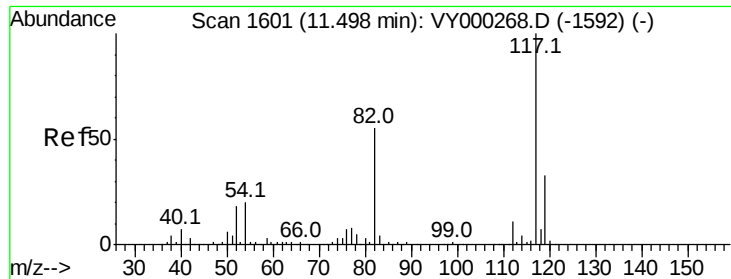


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

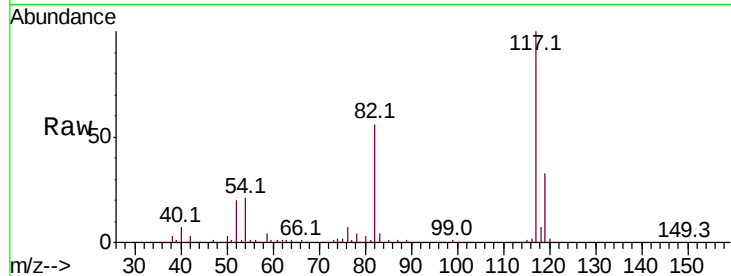




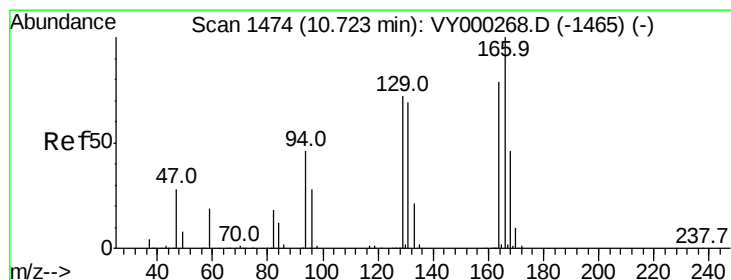
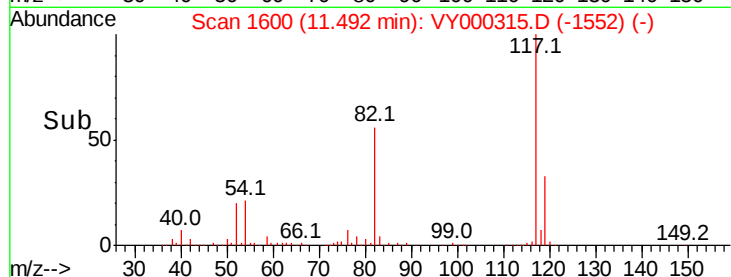
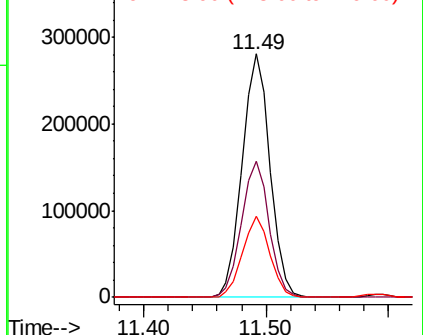
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

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

Tot Ion:117 Resp: 442120
Ion Ratio Lower Upper
117 100
82 56.0 43.7 65.5
119 33.0 26.6 39.8



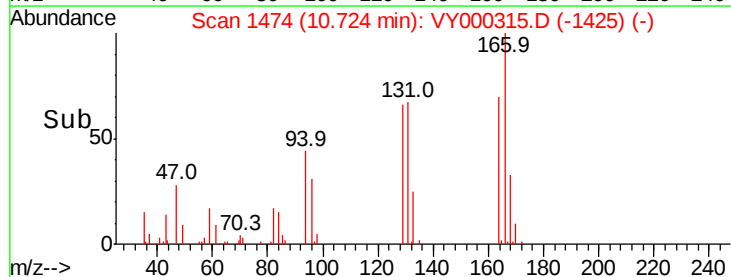
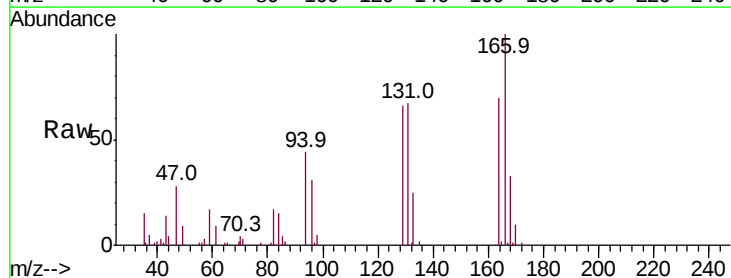
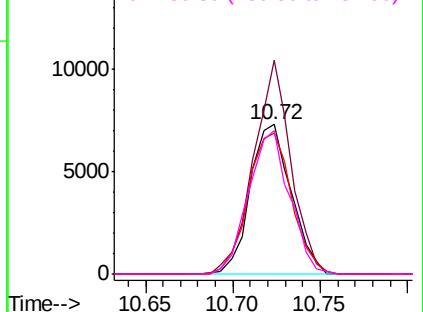
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

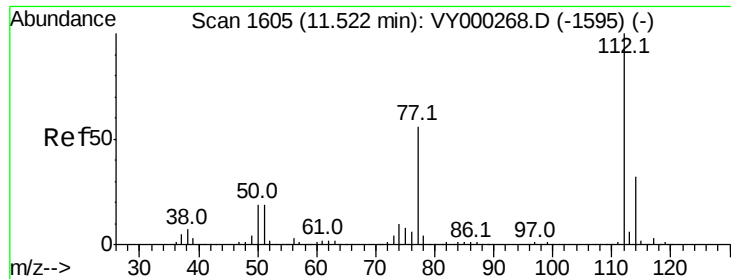


#64
Tetrachloroethene
Concen: 2.845 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

Tgt Ion:164 Resp: 11976
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

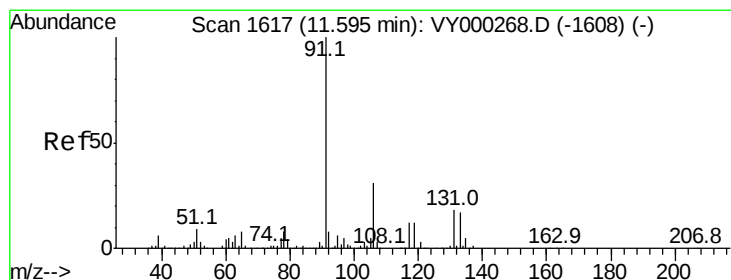
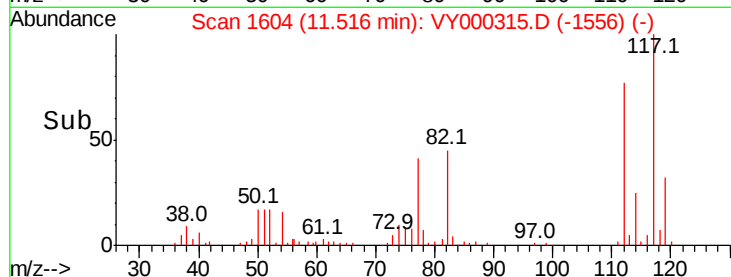
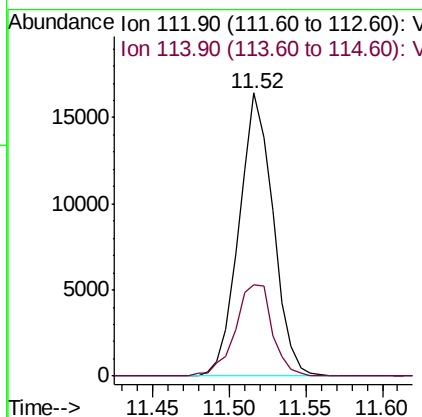
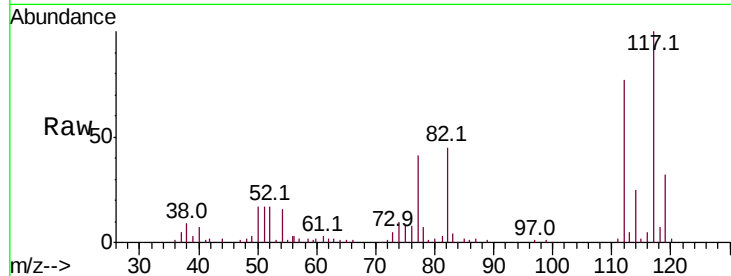




#65
Chlorobenzene
Concen: 2.727 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

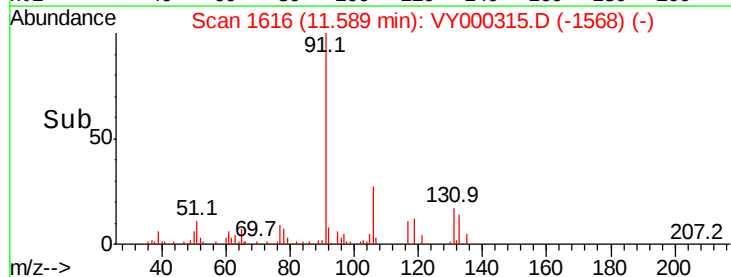
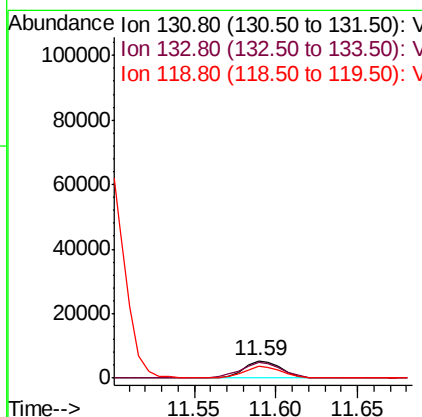
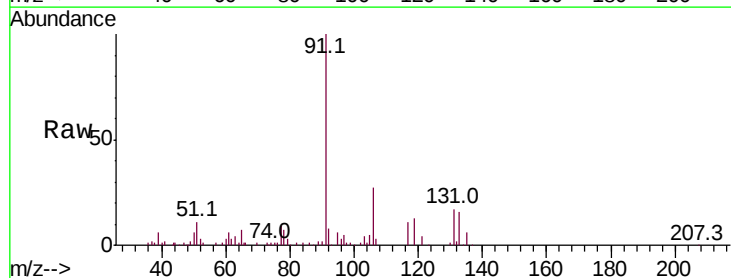
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

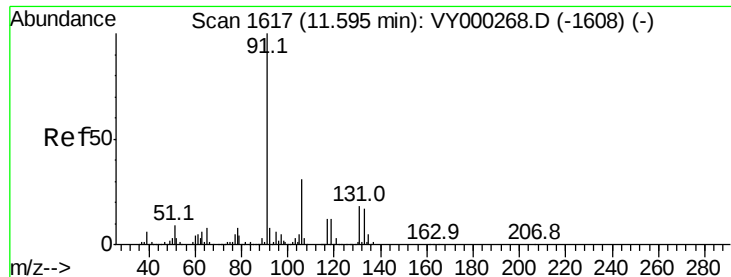
Tot Ion:112 Resp: 25446
Ion Ratio Lower Upper
112 100
114 32.3 25.7 38.5



#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 :

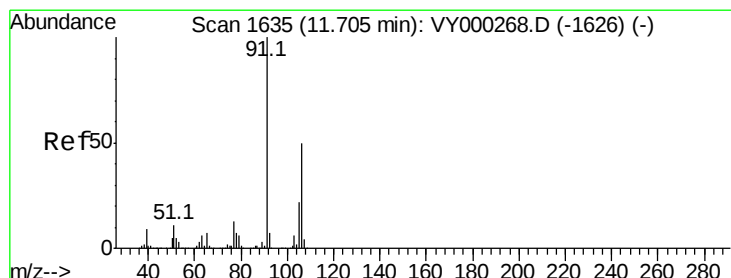
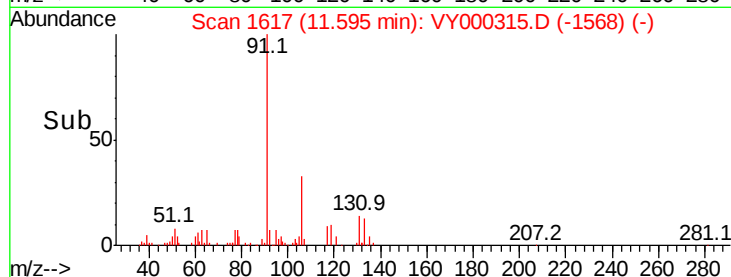
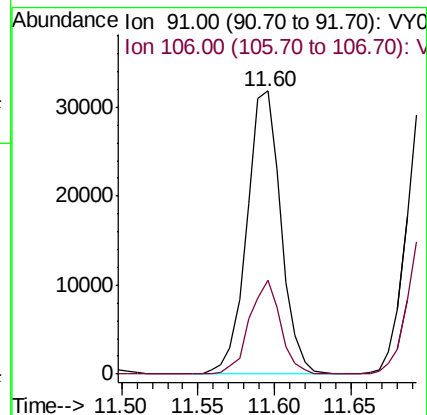
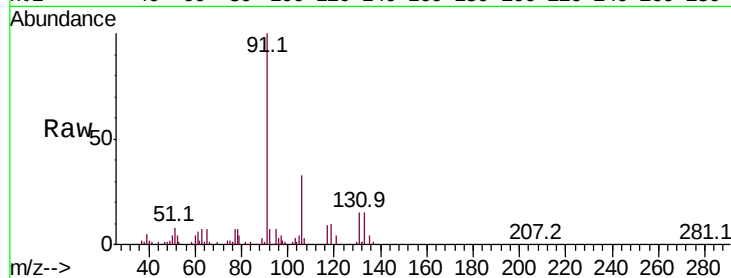
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 49124

Ion Ratio Lower Upper

91 100

106 33.2 25.0 37.6



#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

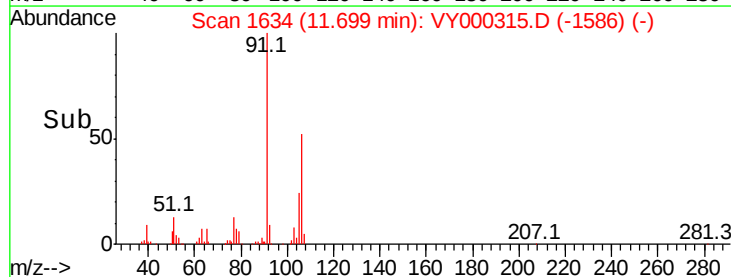
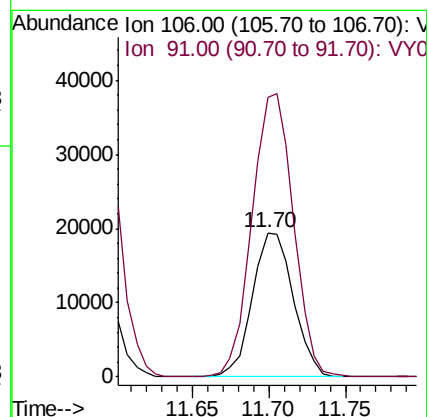
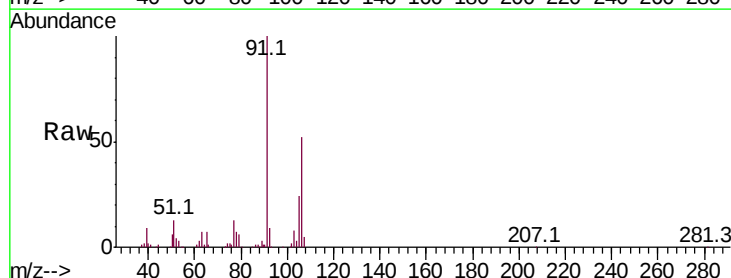
Acq: 15 Oct 2019 13:17

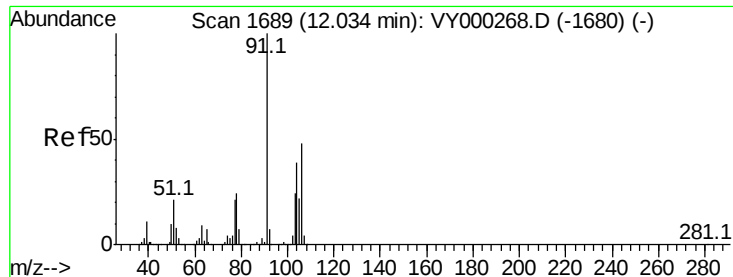
Tgt Ion: 106 Resp: 36176

Ion Ratio Lower Upper

106 100

91 199.4 157.5 236.3

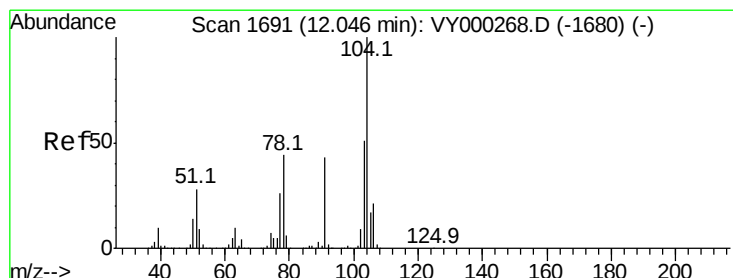
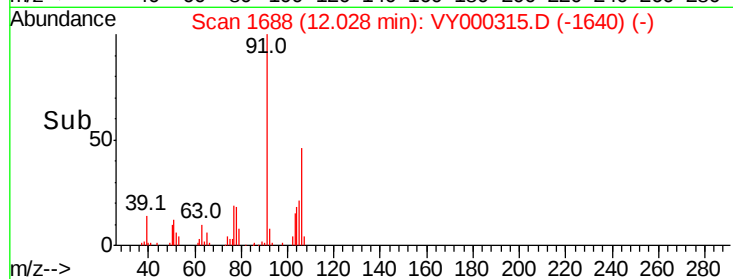
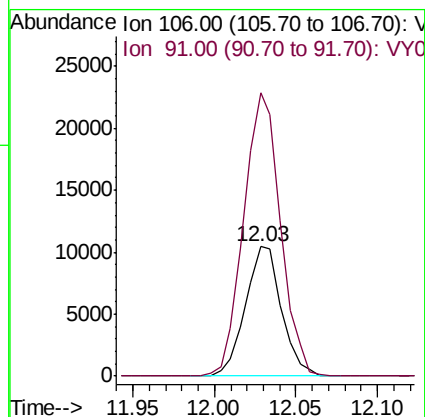
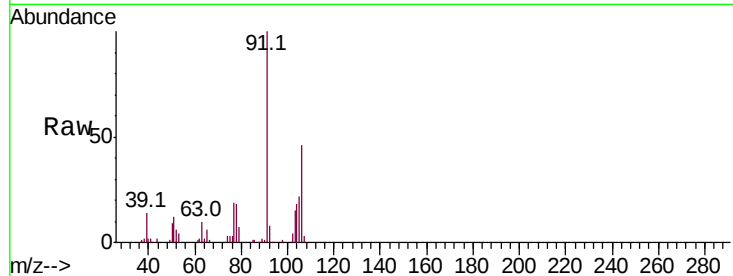




#69
o-Xylene
Concen: 2.563 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

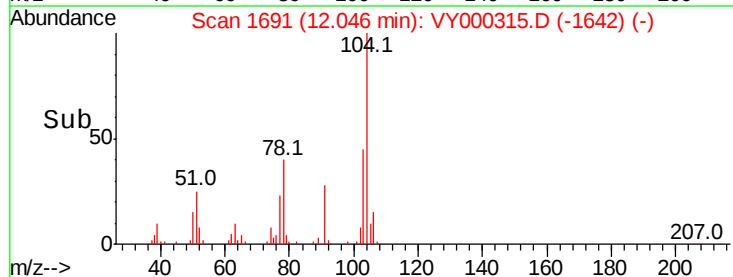
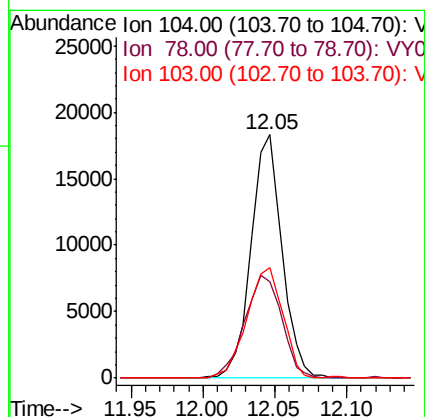
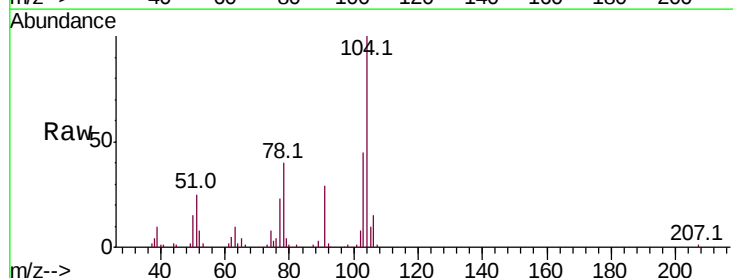
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

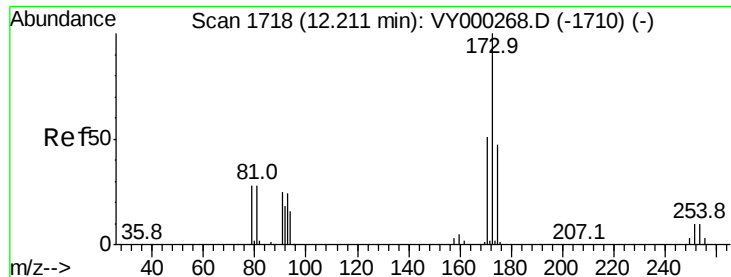
Tot Ion:106 Resp: 16169
Ion Ratio Lower Upper
106 100
91 222.2 104.7 313.9



#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





#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

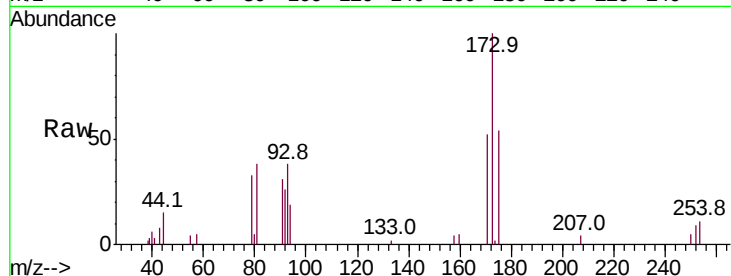
Tot Ion:173 Resp: 4714

Ion Ratio Lower Upper

173 100

175 45.1 24.6 73.6

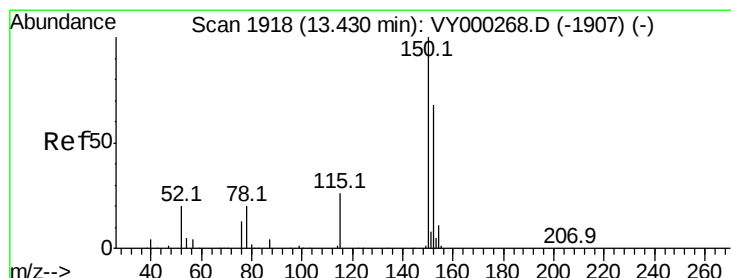
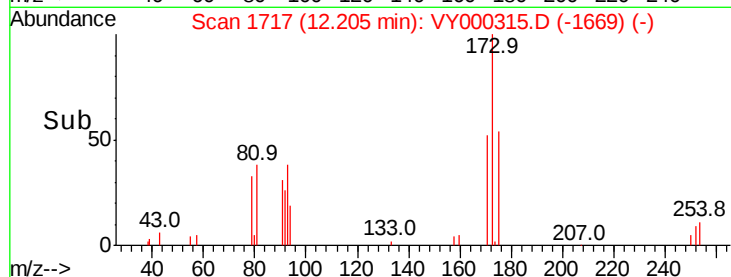
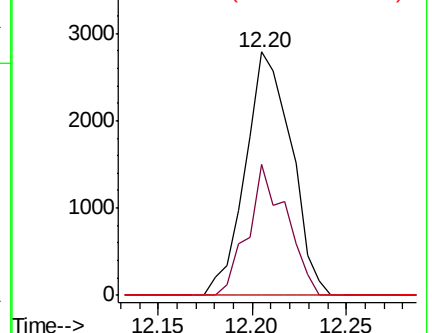
254 0.0 0.1 0.1#



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



#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

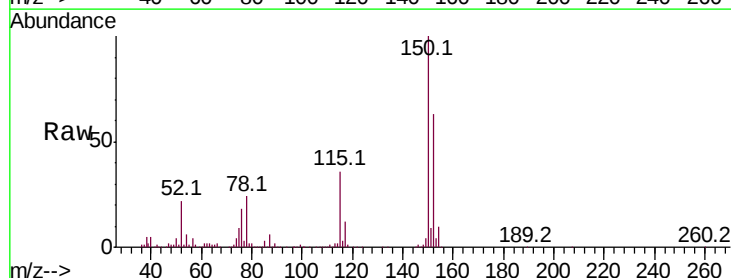
Tgt Ion:152 Resp: 209200

Ion Ratio Lower Upper

152 100

115 59.0 29.3 88.0

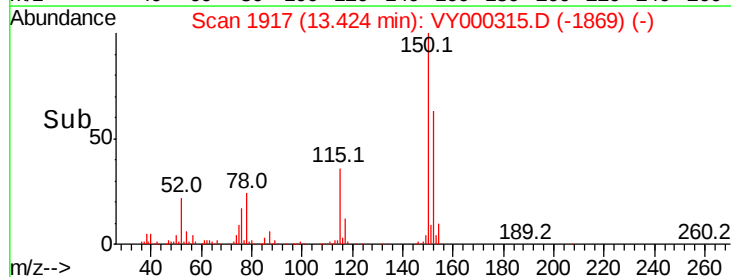
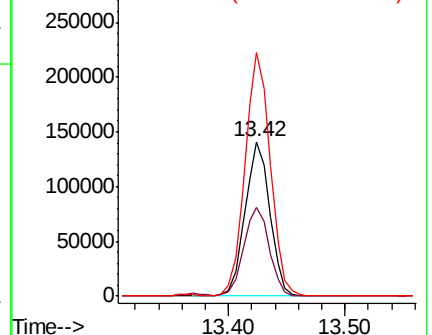
150 160.1 0.0 348.4

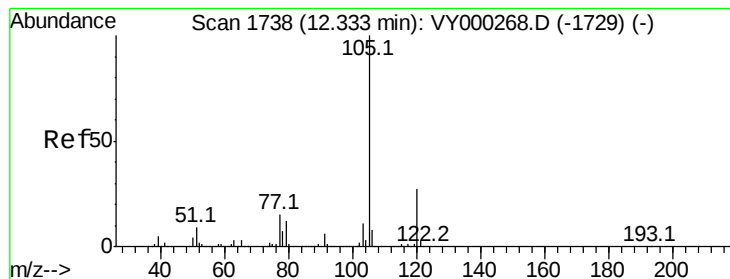


Abundance Ion 151.90 (151.60 to 152.60): V

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 :

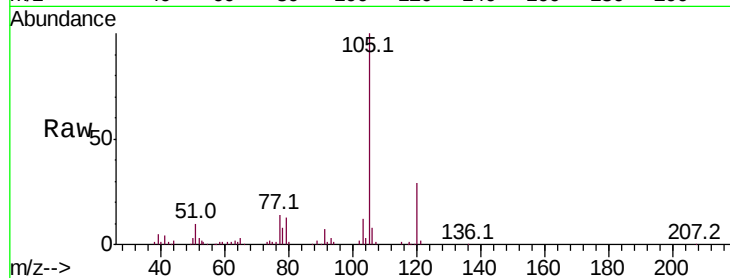
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 45091

Ion Ratio Lower Upper

105 100

120 27.4 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.33

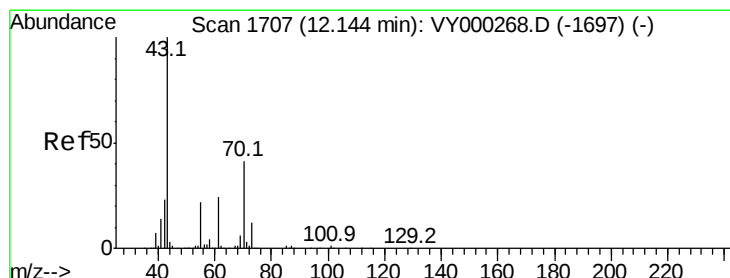
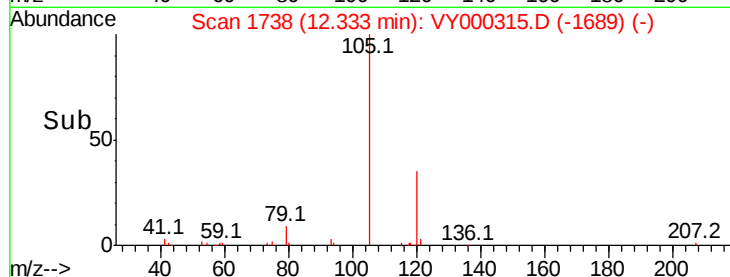
30000

20000

10000

0

Time--> 12.25 12.30 12.35 12.40



#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: 43 Resp: 12288

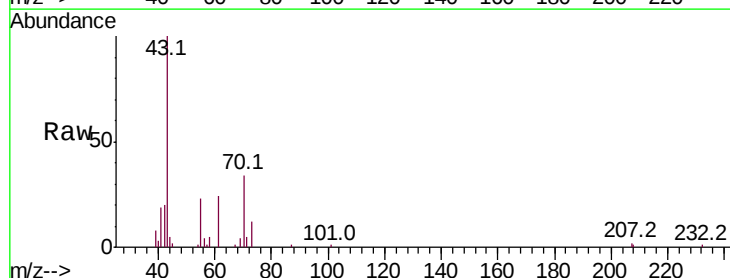
Ion Ratio Lower Upper

43 100

70 38.8 32.9 49.3

55 25.7 17.8 26.6

61 27.1 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

12000

10000

8000

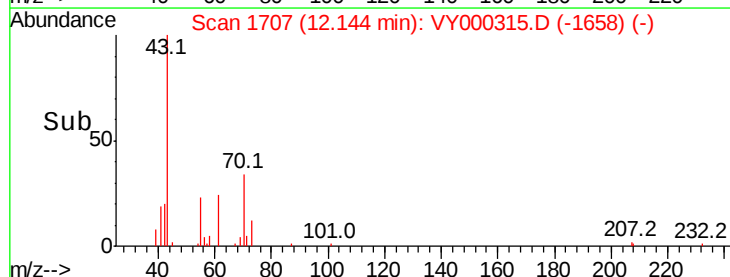
6000

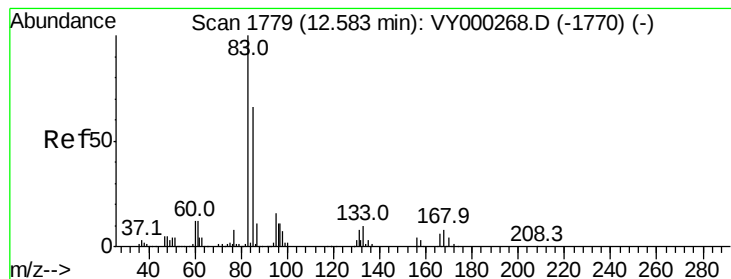
4000

2000

0

Time--> 12.10 12.15 12.20





#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 :

LOD-MDL-SOIL-01-QT4-2019

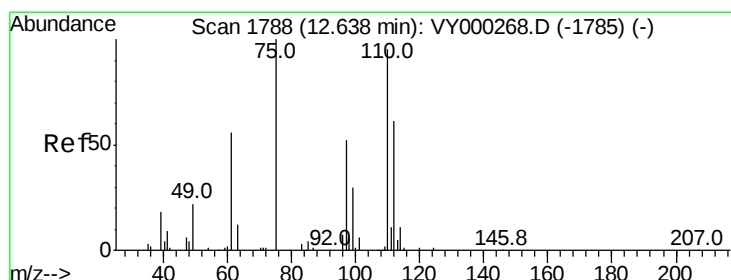
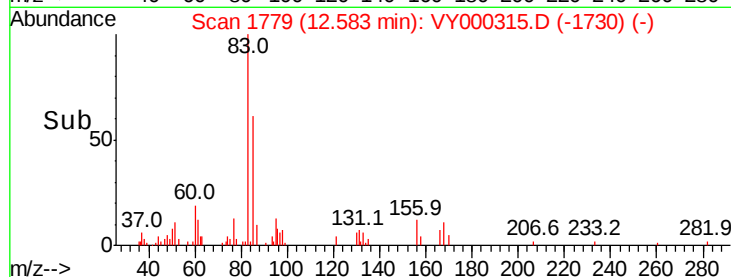
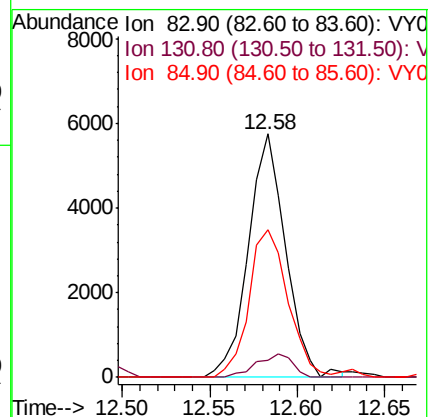
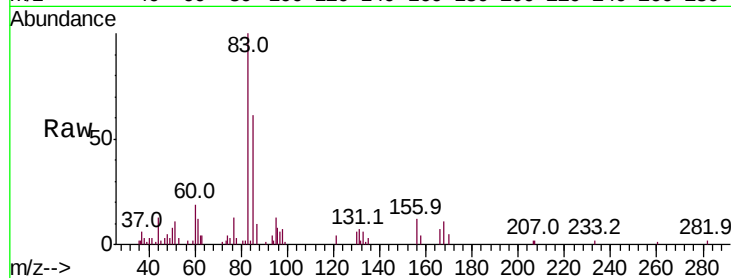
Tot Ion: 83 Resp: 8524

Ion Ratio Lower Upper

83 100

131 9.1 5.3 16.1

85 63.4 32.9 98.7



#76

1,2,3-Trichloropropane

Concen: 4.458 ug/l

RT: 12.63 min Scan# 1787

Delta R.T. -0.01 min

Lab File: VY000315.D

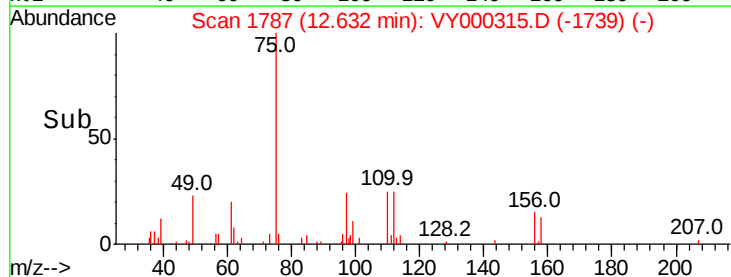
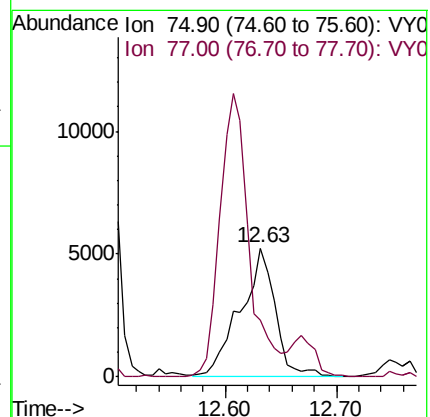
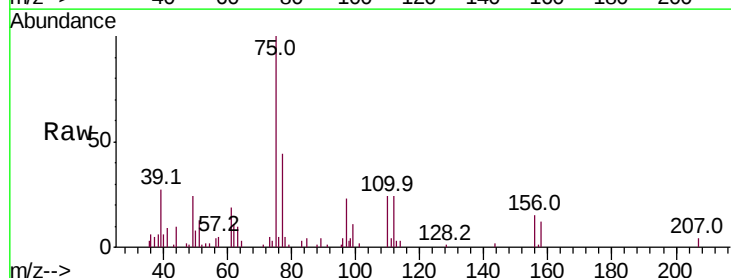
Acq: 15 Oct 2019 13:17

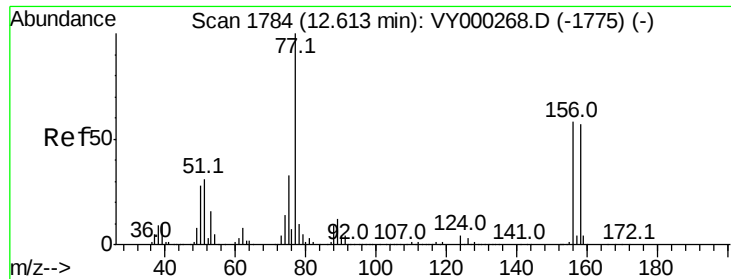
Tgt Ion: 75 Resp: 11468

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

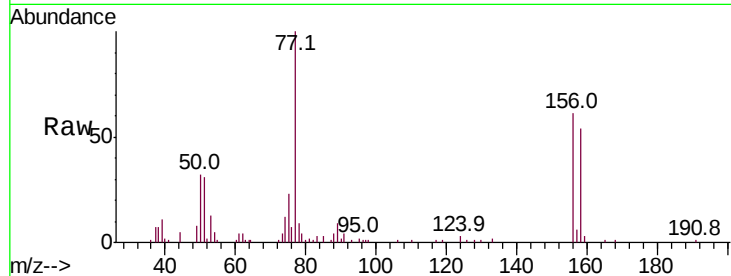
Tot Ion:156 Resp: 10945

Ion Ratio Lower Upper

156 100

77 191.1 101.0 302.9

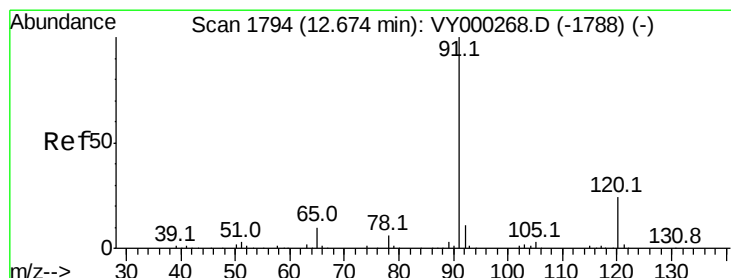
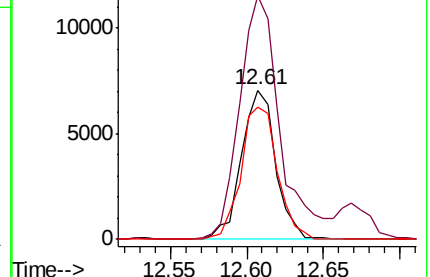
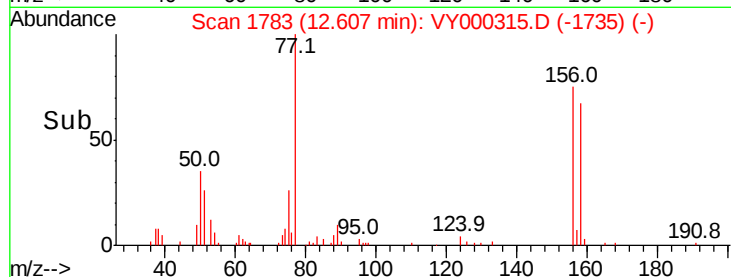
158 94.2 49.7 149.1



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



#78

n-propylbenzene

Concen: 2.792 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. 0.00 min

Lab File: VY000315.D

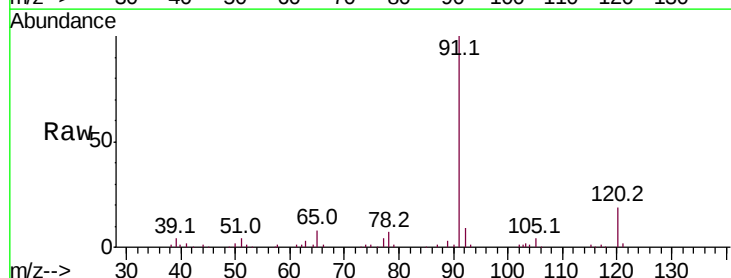
Acq: 15 Oct 2019 13:17

Tgt Ion: 91 Resp: 54685

Ion Ratio Lower Upper

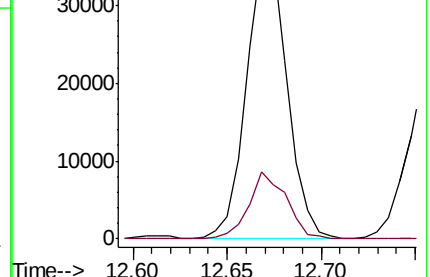
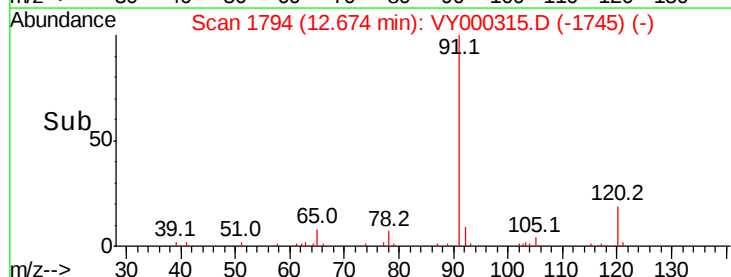
91 100

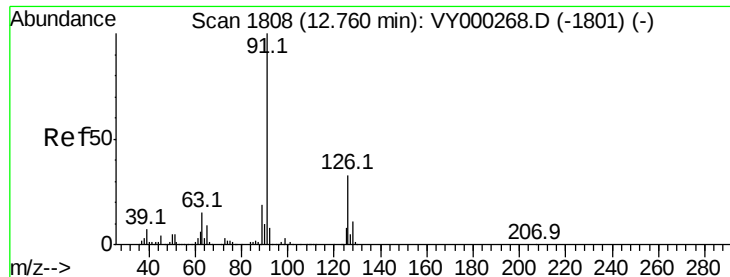
120 21.9 11.5 34.5



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 :

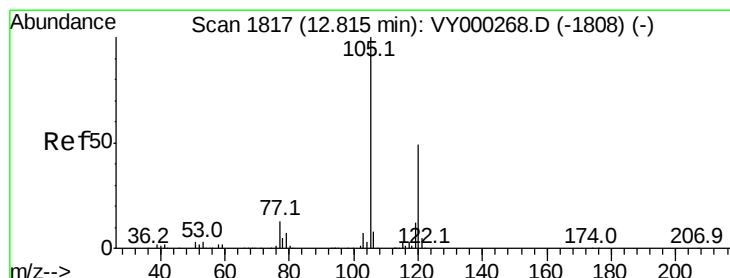
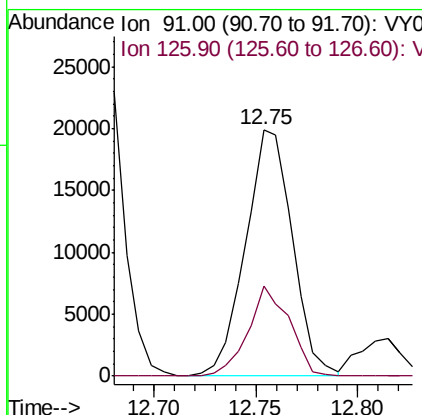
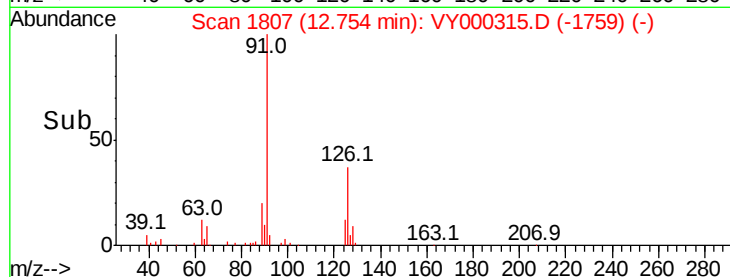
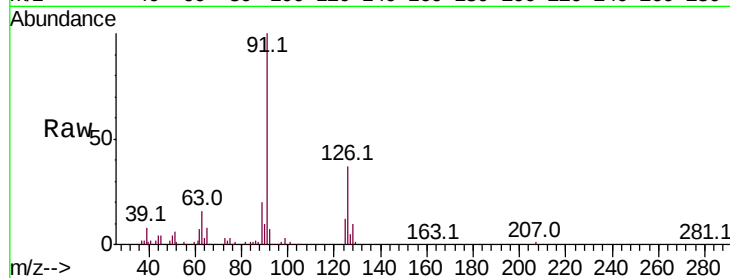
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 31924

Ion Ratio Lower Upper

91 100

126 32.3 17.1 51.3



#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

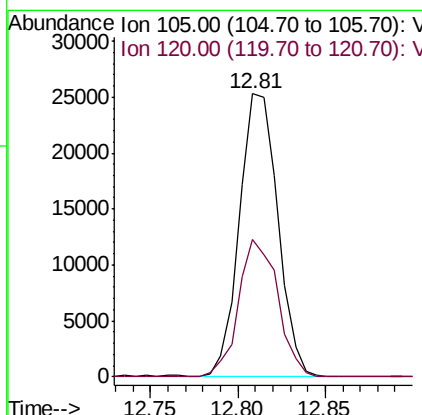
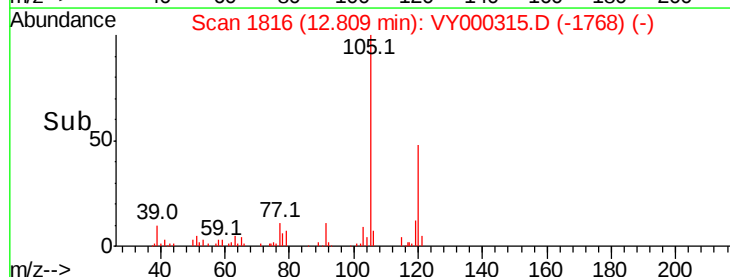
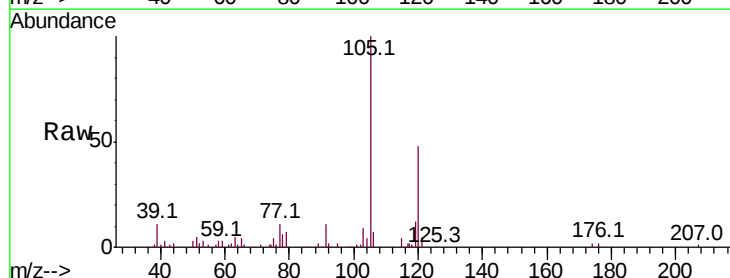
Acq: 15 Oct 2019 13:17

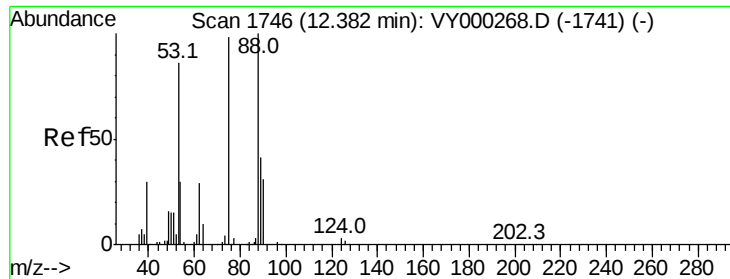
Tgt Ion: 105 Resp: 38692

Ion Ratio Lower Upper

105 100

120 49.4 24.9 74.8

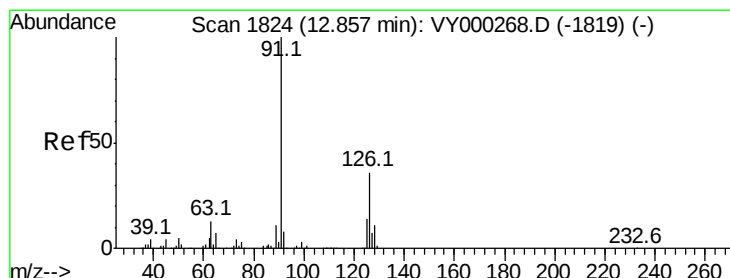
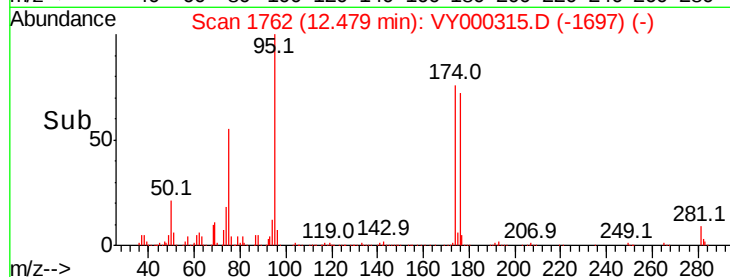
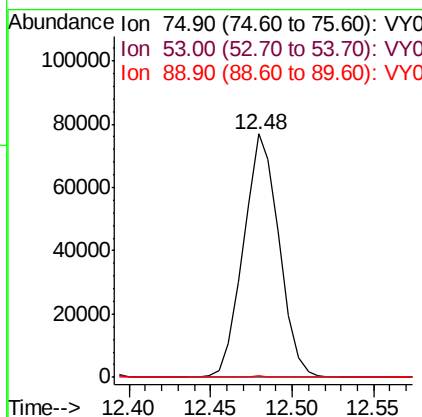
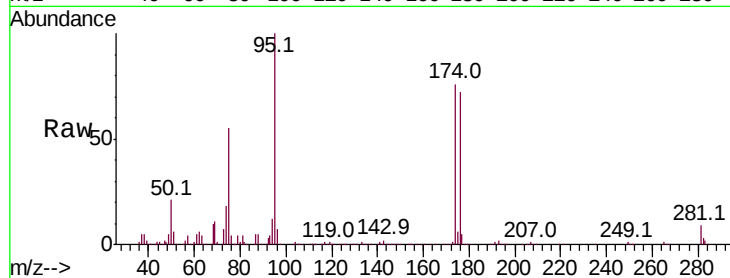




#81
trans-1,4-Dichloro-2-butene
Concen: 98.647 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.10 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

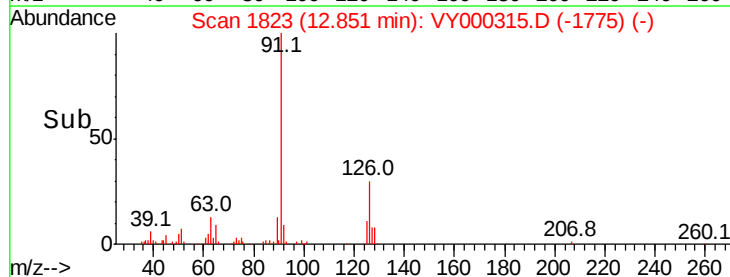
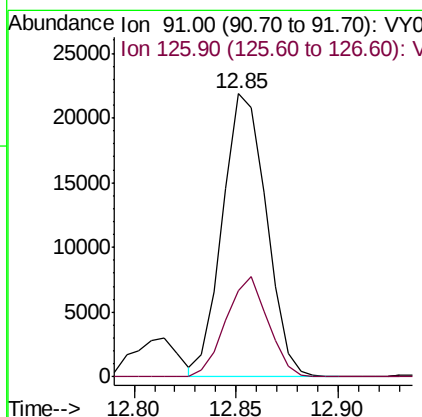
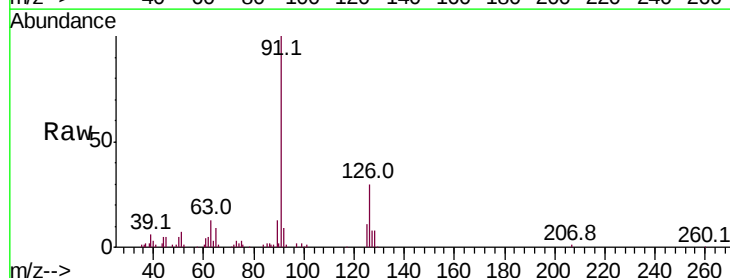
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

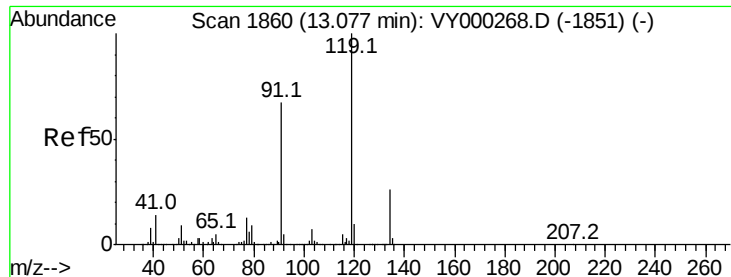
Tot Ion: 75 Resp: 115982
Ion Ratio Lower Upper
75 100
53 0.0 71.3 106.9#
89 0.3 35.1 52.7#



#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





#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

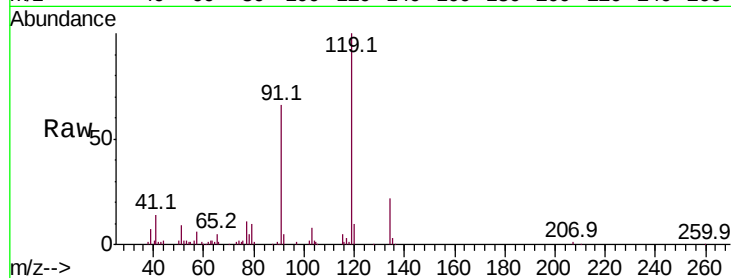
Tot Ion:119 Resp: 32514

Ion Ratio Lower Upper

119 100

91 67.3 32.9 98.7

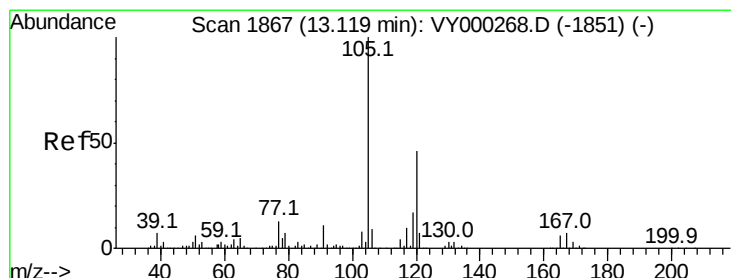
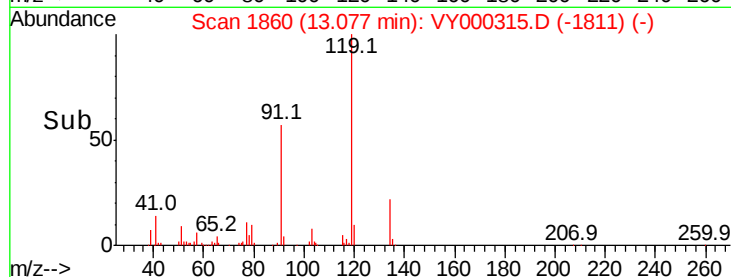
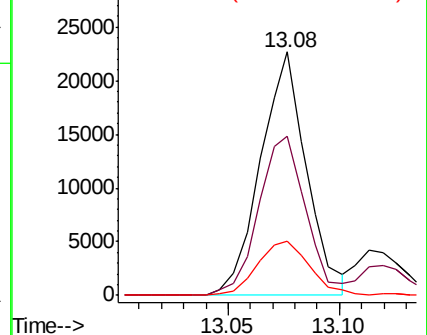
134 25.3 13.3 39.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#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

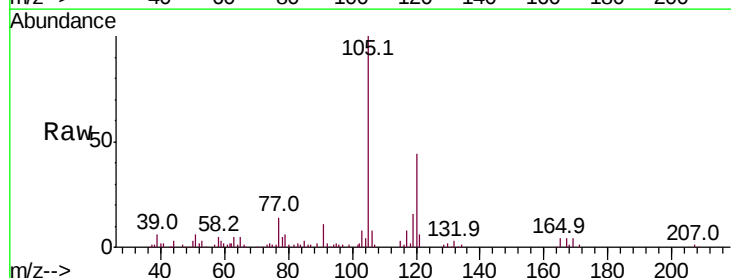
Acq: 15 Oct 2019 13:17

Tgt Ion:105 Resp: 37635

Ion Ratio Lower Upper

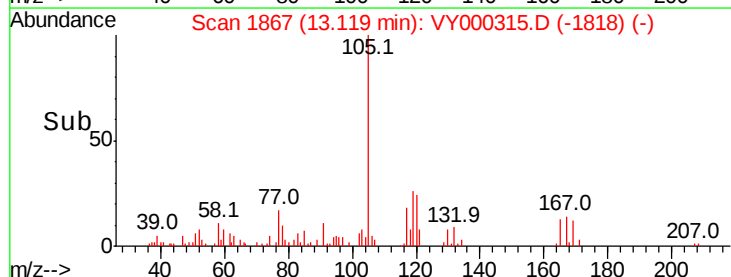
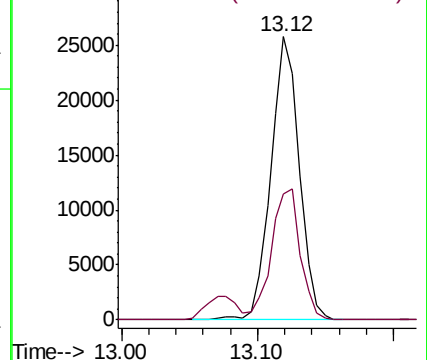
105 100

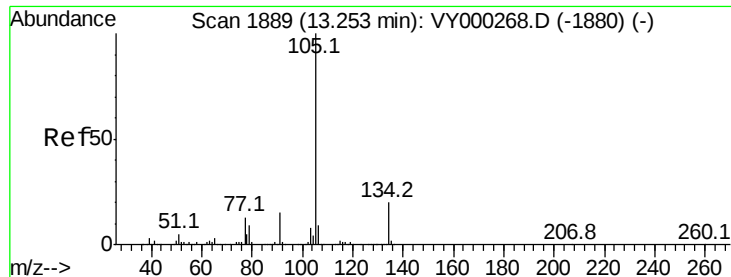
120 47.2 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#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 :

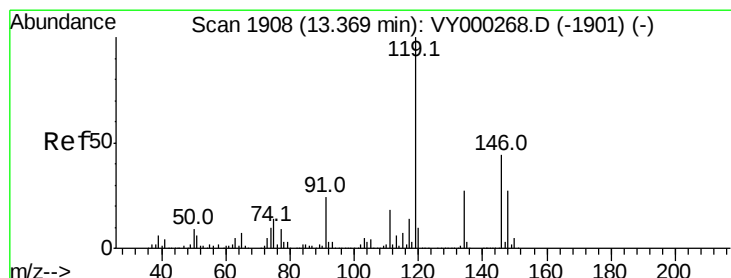
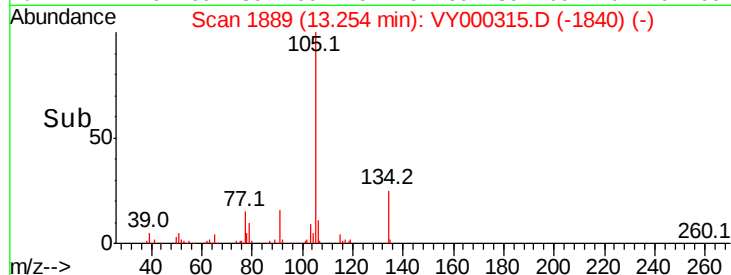
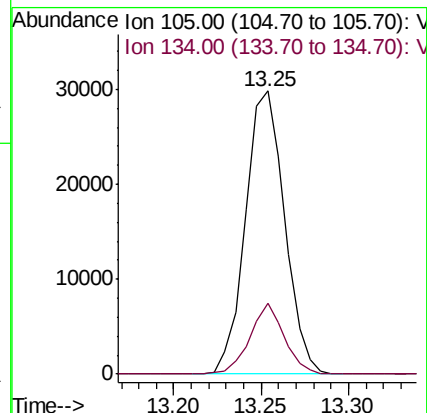
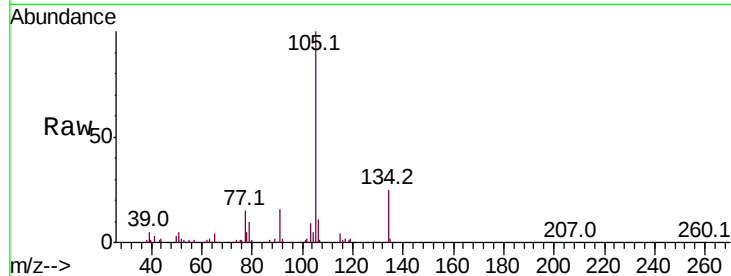
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 46426

Ion Ratio Lower Upper

105 100

134 22.0 10.1 30.1



#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

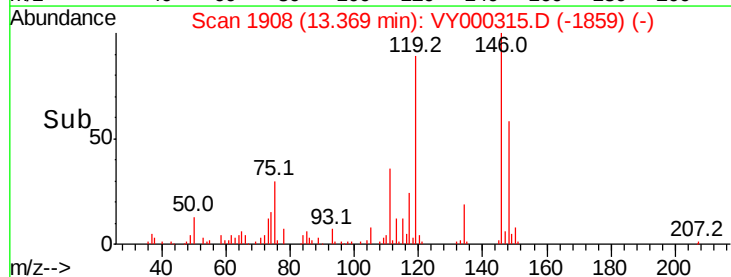
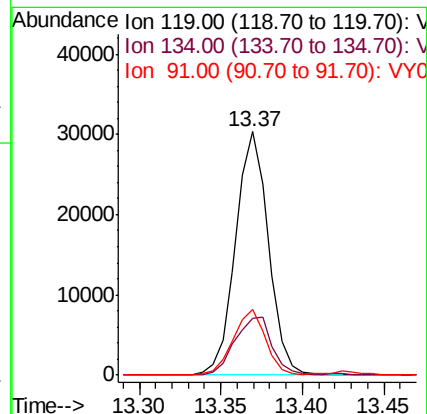
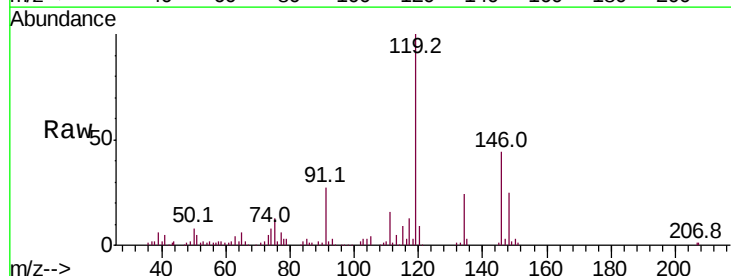
Tgt Ion:119 Resp: 42481

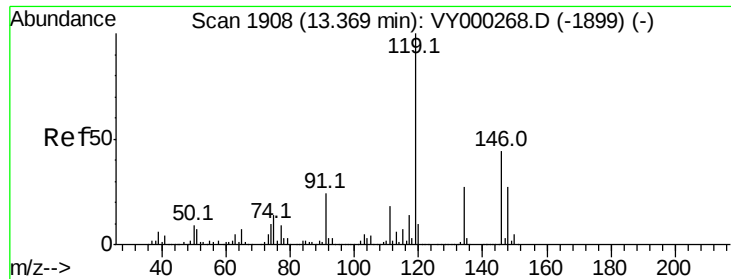
Ion Ratio Lower Upper

119 100

134 26.9 13.6 40.8

91 26.5 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 3.038 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

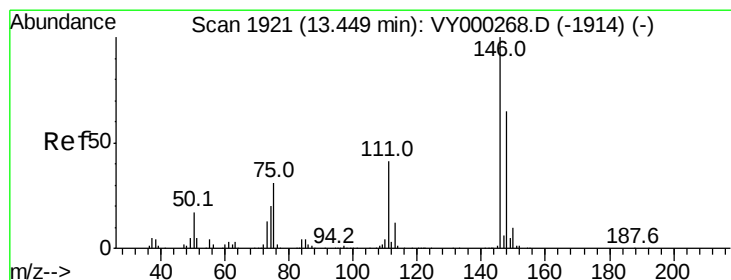
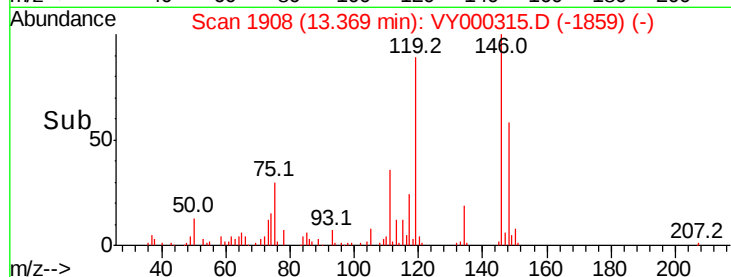
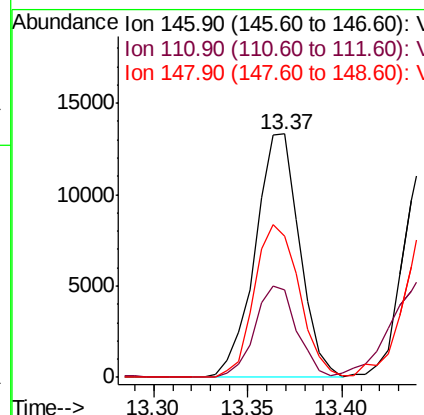
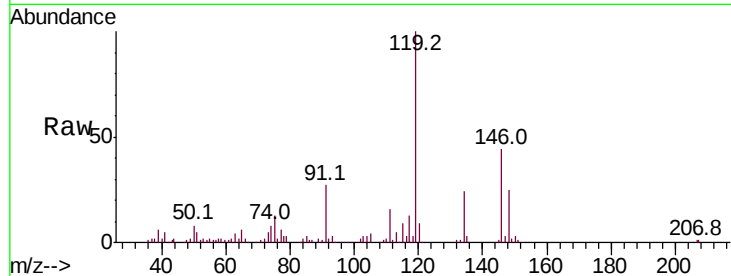
Lab File: VY000315.D

Acq: 15 Oct 2019 13:17

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

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



#88

1,4-Dichlorobenzene

Concen: 3.018 ug/l

RT: 13.45 min Scan# 1921

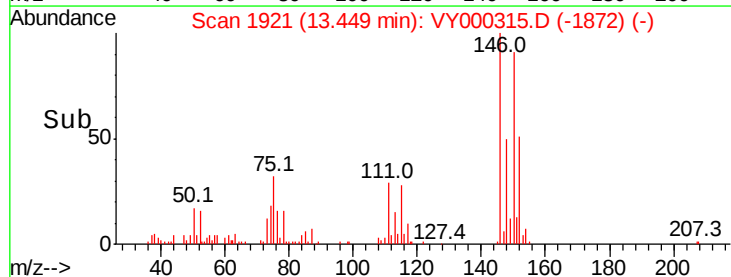
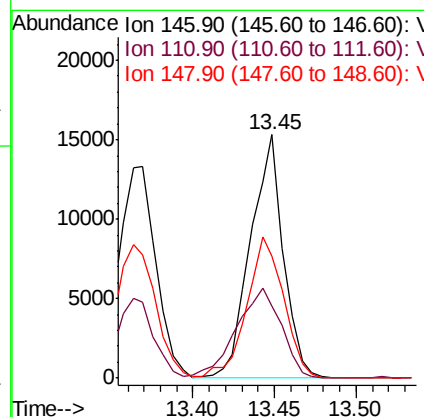
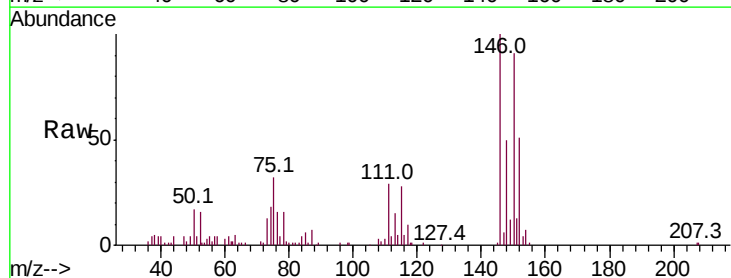
Delta R.T. 0.00 min

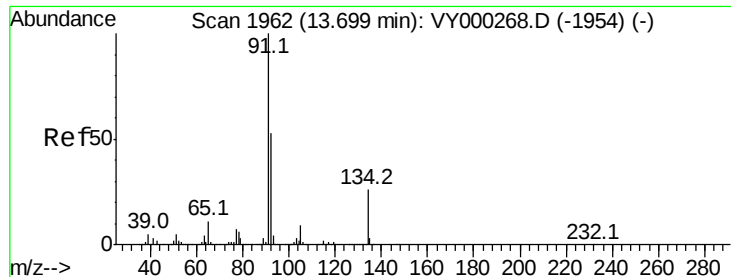
Lab File: VY000315.D

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

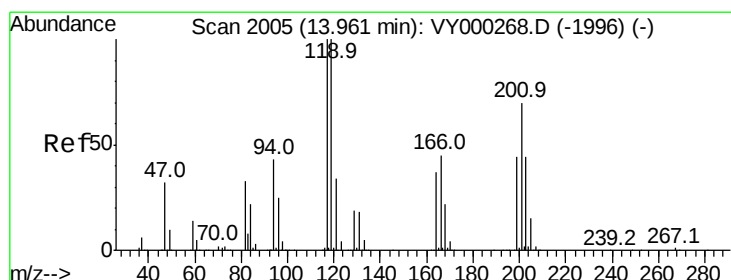
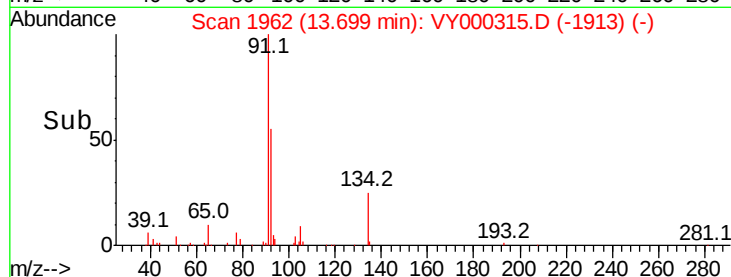
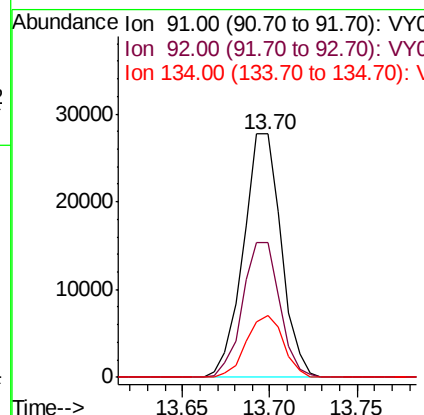
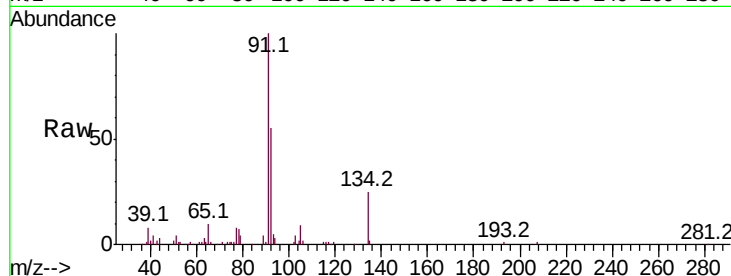




#89
n-Butylbenzene
Concen: 2.880 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. 0.00 min
Lab File: VY000315.D
Acq: 15 Oct 2019 13:17

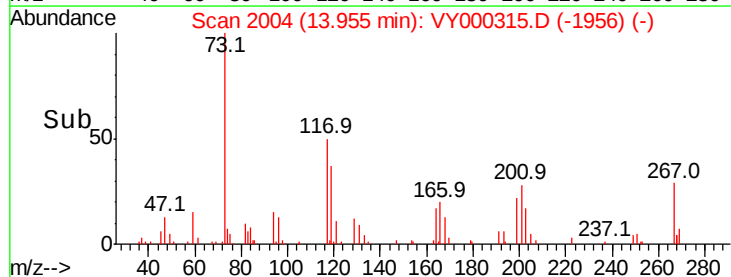
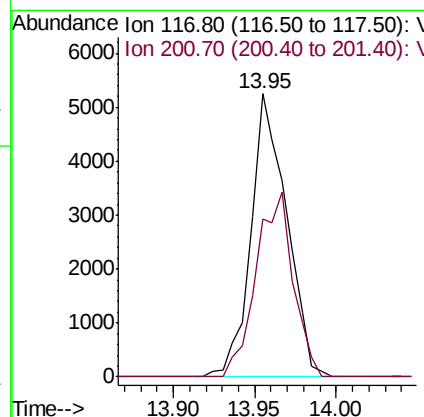
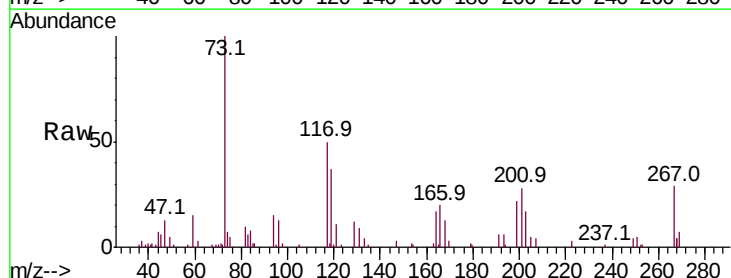
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

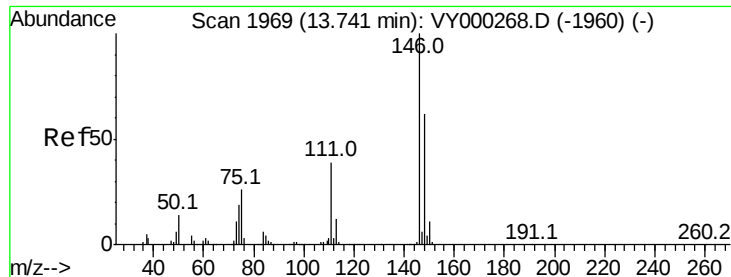
Tot Ion: 91 Resp: 41577
Ion Ratio Lower Upper
91 100
92 54.6 26.7 80.1
134 25.1 13.0 38.9



#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: 117 Resp: 8042
Ion Ratio Lower Upper
117 100
201 67.5 36.3 108.7

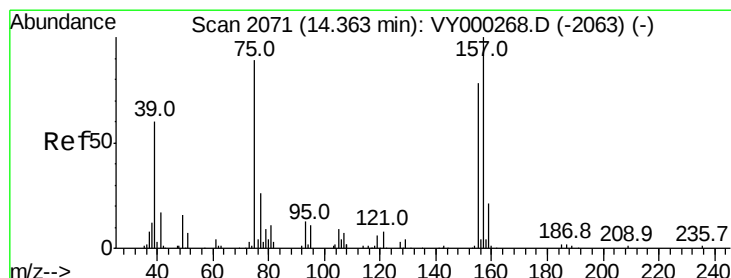
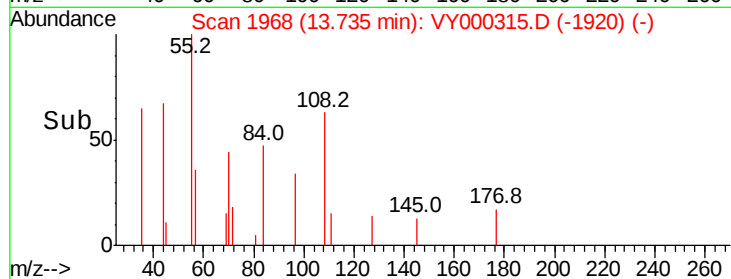
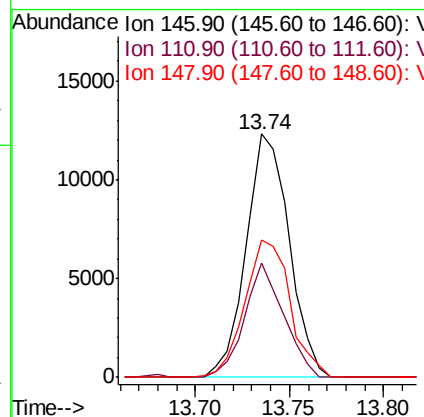
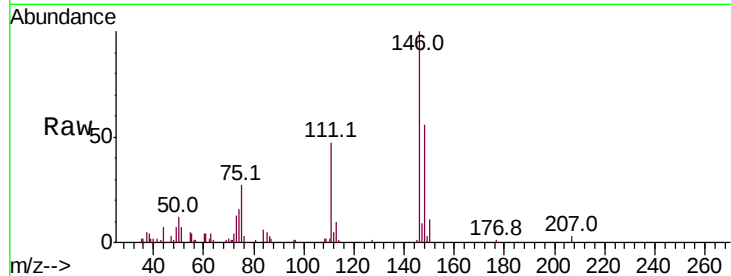




#91
 1,2-Dichlorobenzene
 Concen: 3.013 ug/l
 RT: 13.74 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

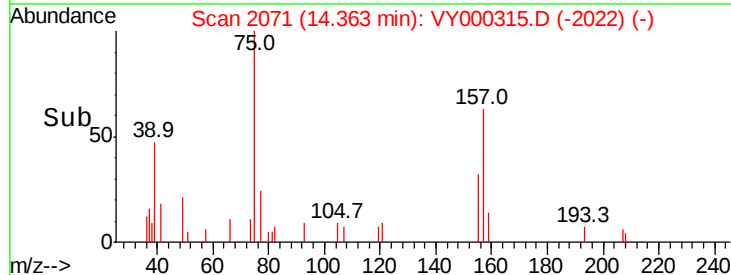
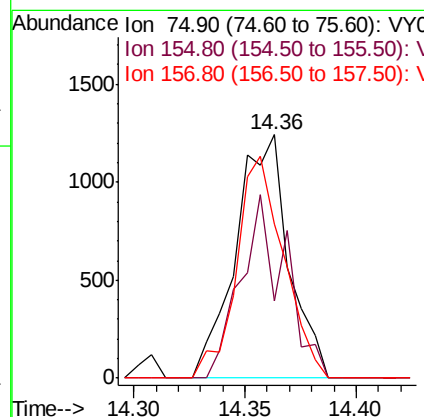
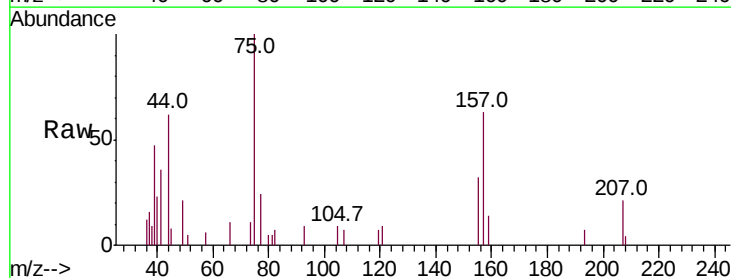
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

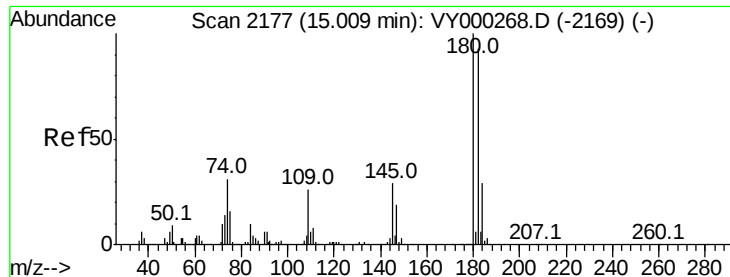
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.5	61.5
148	59.6	31.6	95.0



#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	Ratio	Lower	Upper
75	100		
155	63.0	45.8	137.3
157	81.3	55.6	166.9

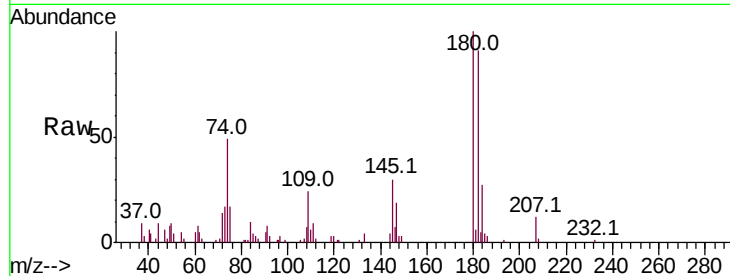




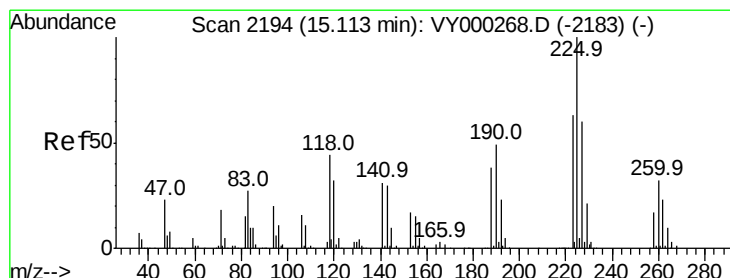
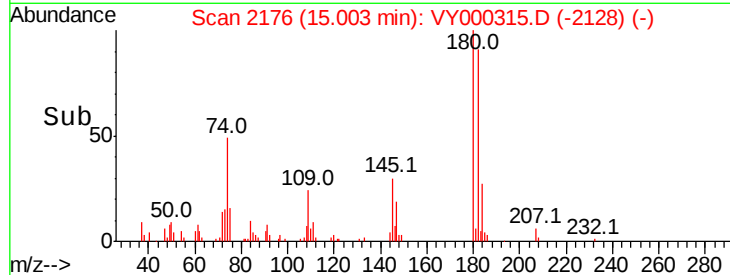
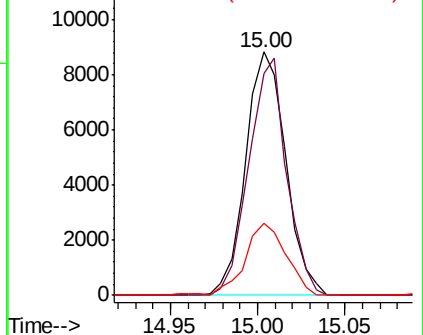
#93
 1,2,4-Trichlorobenzene
 Concen: 3.154 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

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

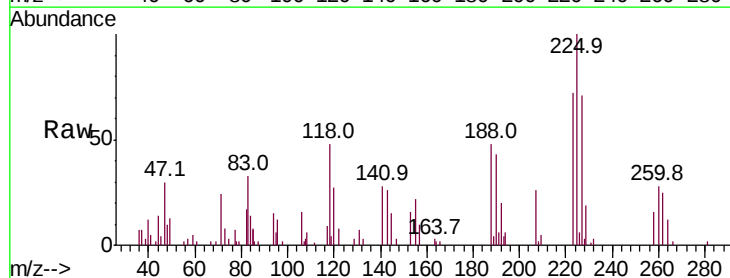


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

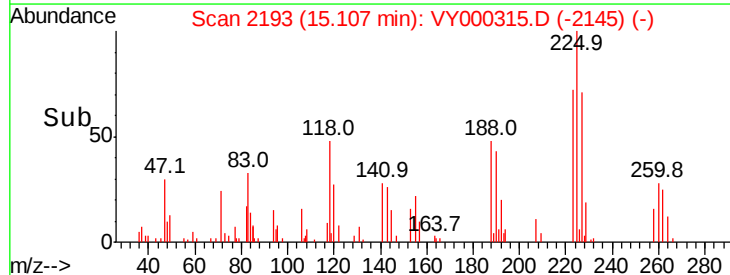
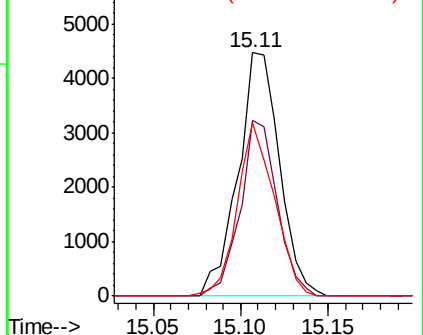


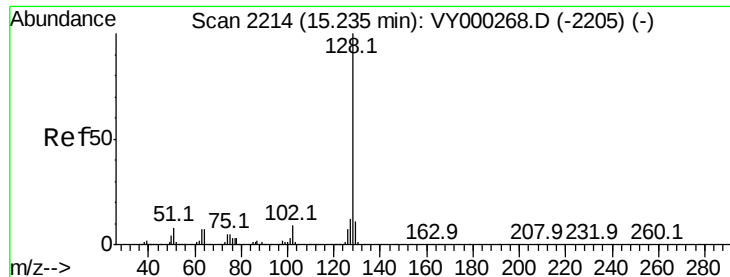
#94
 Hexachlorobutadiene
 Concen: 3.032 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY000315.D
 Acq: 15 Oct 2019 13:17

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



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#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 :

LOD-MDL-SOIL-01-QT4-2019

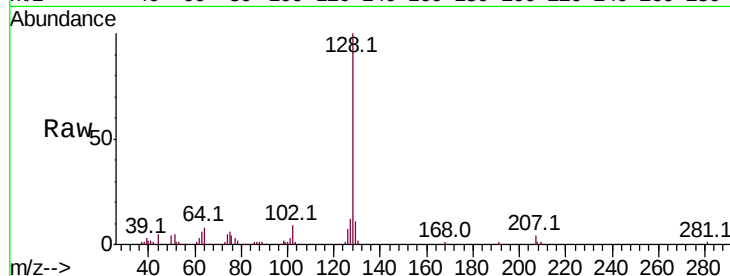
Tot Ion:128 Resp: 37355

Ion Ratio Lower Upper

128 100

127 14.0 9.6 14.4

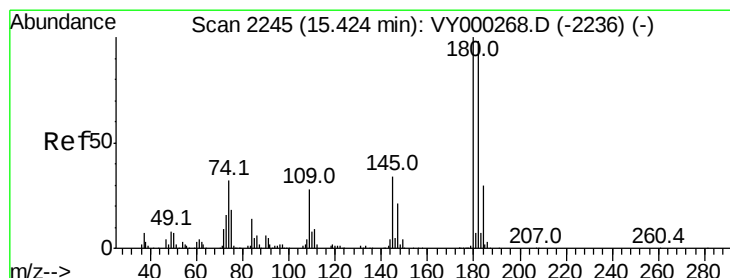
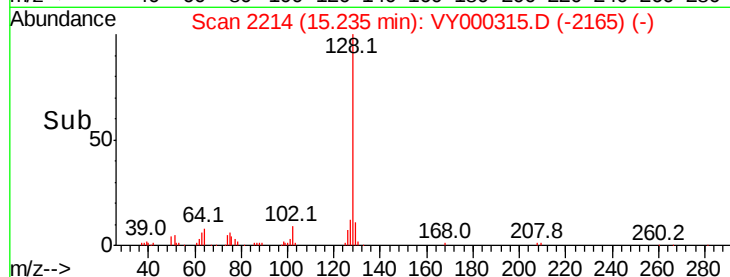
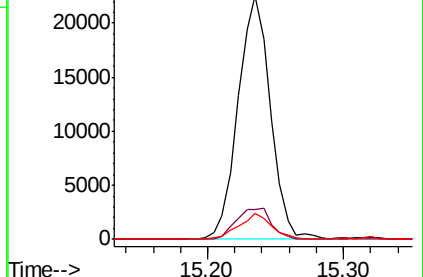
129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#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

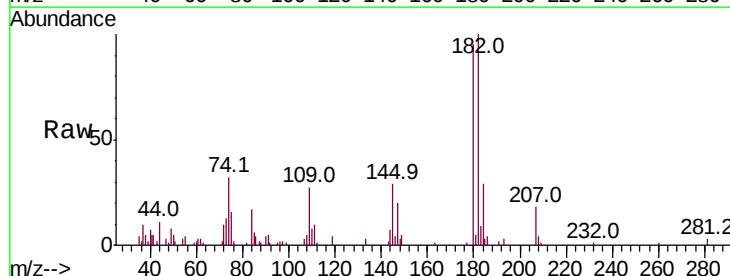
Tgt Ion:180 Resp: 13057

Ion Ratio Lower Upper

180 100

182 94.1 46.5 139.5

145 33.2 16.2 48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

