

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101619\
 Data File : VY000325.D
 Acq On : 16 Oct 2019 13:26
 Operator : SY/MD
 Sample : K5111-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 12:50:38 AM

Quant Time: Oct 17 02:00:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 17 01:56:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	279332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	469994	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	415709	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	199050	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	158903	53.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.86%	
35) Dibromofluoromethane	7.73	113	138055	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	
50) Toluene-d8	10.18	98	559384	51.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.58%	
62) 4-Bromofluorobenzene	12.48	95	195811	47.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.52%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.90	85	7030	2.823	ug/l	85
3) Chloromethane	2.11	50	15010	4.397	ug/l	93
4) Vinyl Chloride	2.25	62	9160	2.659	ug/l	97
5) Bromomethane	2.65	94	7621	2.985	ug/l	87
6) Chloroethane	2.80	64	6432	2.894	ug/l	97
7) Trichlorofluoromethane	3.13	101	12291	2.608	ug/l	97
8) Diethyl Ether	3.53	74	4507	2.707	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.91	101	8140	2.848	ug/l	94
10) Methyl Iodide	4.08	142	7484	2.006	ug/l #	91
11) Tert butyl alcohol	4.98	59	4876	15.813	ug/l #	94
12) 1,1-Dichloroethene	3.88	96	7856	2.785	ug/l	92
13) Acrolein	3.74	56	4777	13.214	ug/l	98
14) Allyl chloride	4.49	41	12401	2.653	ug/l	94
15) Acrylonitrile	5.18	53	12941	13.889	ug/l	98
16) Acetone	3.96	43	12392	12.987	ug/l #	82
17) Carbon Disulfide	4.20	76	23320	2.625	ug/l	95
18) Methyl Acetate	4.49	43	7947	3.352	ug/l	91
19) Methyl tert-butyl Ether	5.23	73	21408	2.726	ug/l	100
20) Methylene Chloride	4.72	84	13546	3.462	ug/l #	86
21) trans-1,2-Dichloroethene	5.22	96	8903	2.751	ug/l	91
22) Diisopropyl ether	6.13	45	25808	2.610	ug/l	92
23) Vinyl Acetate	6.08	43	77934	12.081	ug/l	97
24) 1,1-Dichloroethane	6.03	63	14232	2.637	ug/l	99
25) 2-Butanone	7.00	43	20122	14.970	ug/l	100
26) 2,2-Dichloropropane	6.99	77	16806	3.379	ug/l	88
27) cis-1,2-Dichloroethene	7.00	96	9639	2.752	ug/l	77
28) Bromochloromethane	7.35	49	6481	2.797	ug/l	89
29) Tetrahydrofuran	7.37	42	10714	13.152	ug/l	96
30) Chloroform	7.52	83	15771	2.901	ug/l	99
31) Cyclohexane	7.80	56	19112	3.390	ug/l #	75
32) 1,1,1-Trichloroethane	7.71	97	12440	2.574	ug/l	99
36) 1,1-Dichloropropene	7.93	75	11476	2.494	ug/l	98
37) Ethyl Acetate	7.09	43	8746	3.210	ug/l #	90
38) Carbon Tetrachloride	7.91	117	10461	2.348	ug/l #	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	14697	2.440	ug/l	94
40) Benzene	8.17	78	34124	2.566	ug/l	92
41) Methacrylonitrile	7.32	41	3428	2.643	ug/l #	47
42) 1,2-Dichloroethane	8.25	62	10770	2.835	ug/l	99
43) Isopropyl Acetate	8.28	43	12603	2.433	ug/l	96
44) Trichloroethene	8.95	130	9174	2.459	ug/l	99
45) 1,2-Dichloropropane	9.22	63	8314	2.548	ug/l #	89
46) Dibromomethane	9.31	93	4932	2.704	ug/l	89
47) Bromodichloromethane	9.50	83	10371	2.412	ug/l	99
48) Methyl methacrylate	9.30	41	6269	2.761	ug/l	90
49) 1,4-Dioxane	9.32	88	1342m	49.063	ug/l	
51) 4-Methyl-2-Pentanone	10.08	43	35482	13.279	ug/l	99
52) Toluene	10.25	92	21872	2.591	ug/l	93
53) t-1,3-Dichloropropene	10.47	75	10896	2.365	ug/l	98
54) cis-1,3-Dichloropropene	9.94	75	12892	2.464	ug/l	92
55) 1,1,2-Trichloroethane	10.65	97	6667	2.514	ug/l	94
56) Ethyl methacrylate	10.51	69	9417	2.491	ug/l	98
57) 1,3-Dichloropropane	10.80	76	11525	2.530	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.79	63	24895	16.509	ug/l	98
59) 2-Hexanone	10.84	43	24156	12.879	ug/l	96
60) Dibromochloromethane	10.99	129	6756	2.298	ug/l	95
61) 1,2-Dibromoethane	11.09	107	6007	2.359	ug/l	99
64) Tetrachloroethene	10.72	164	9925	2.508	ug/l	93
65) Chlorobenzene	11.52	112	23685	2.700	ug/l	90
66) 1,1,1,2-Tetrachloroethane	11.59	131	7344	2.383	ug/l	97
67) Ethyl Benzene	11.60	91	41725	2.566	ug/l	98
68) m/p-Xylenes	11.70	106	30533	4.911	ug/l	97
69) o-Xylene	12.03	106	14633	2.467	ug/l	98
70) Styrene	12.05	104	23375	2.337	ug/l	99
71) Bromoform	12.21	173	4223	2.384	ug/l #	100
73) Isopropylbenzene	12.33	105	37700	2.429	ug/l	98
74) N-amyl acetate	12.14	43	11120	2.918	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.58	83	7176	2.463	ug/l	97
76) 1,2,3-Trichloropropane	12.63	75	7758m	3.170	ug/l	
77) Bromobenzene	12.61	156	9357	2.709	ug/l	95
78) n-propylbenzene	12.67	91	46781	2.510	ug/l	100
79) 2-Chlorotoluene	12.75	91	25395	2.468	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	32996	2.535	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	2391m	2.137	ug/l	
82) 4-Chlorotoluene	12.85	91	28557	2.625	ug/l	100
83) tert-Butylbenzene	13.08	119	28034	2.544	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	32022	2.493	ug/l	99
85) sec-Butylbenzene	13.25	105	38445	2.411	ug/l	97
86) p-Isopropyltoluene	13.37	119	33923	2.441	ug/l	98
87) 1,3-Dichlorobenzene	13.36	146	18302	2.690	ug/l	92
88) 1,4-Dichlorobenzene	13.44	146	17375	2.555	ug/l	84
89) n-Butylbenzene	13.69	91	34186	2.489	ug/l	98
90) Hexachloroethane	13.95	117	5633	2.189	ug/l	97
91) 1,2-Dichlorobenzene	13.74	146	17083	2.774	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1605	2.904	ug/l	86

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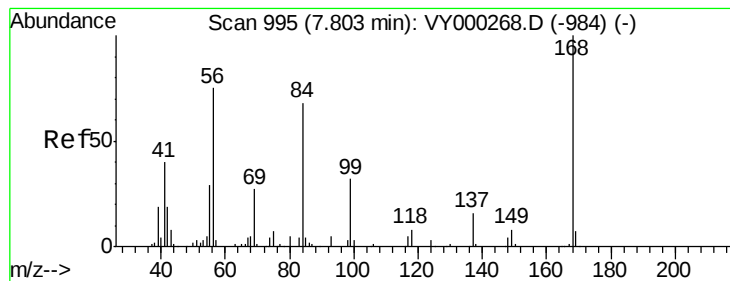
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.01	180	12729	2.969	ug/l	94
94) Hexachlorobutadiene	15.11	225	6520	2.810	ug/l	93
95) Naphthalene	15.23	128	31806	3.324	ug/l	100
96) 1,2,3-Trichlorobenzene	15.42	180	10956	2.835	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:168 Resp: 279332

Ion Ratio Lower Upper

168 100

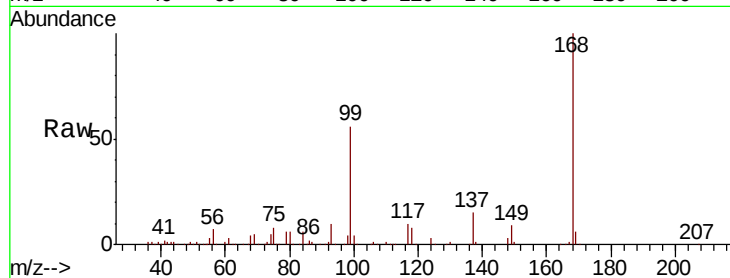
99 56.5 46.6 69.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VY000325.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000325.D (-946) (-)

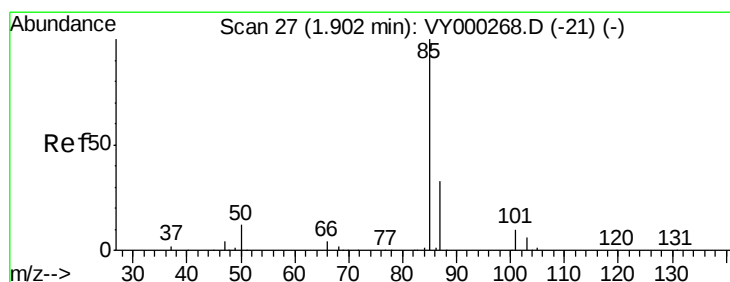
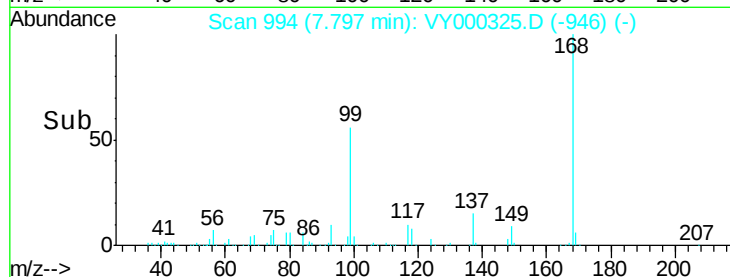
7.80

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.823 ug/l

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000325.D

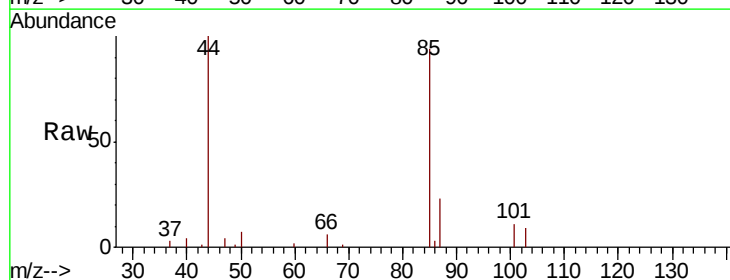
Acq: 16 Oct 2019 13:26

Tgt Ion: 85 Resp: 7030

Ion Ratio Lower Upper

85 100

87 24.6 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VY000325.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY000325.D (-1) (-)

1.90

6000

5000

4000

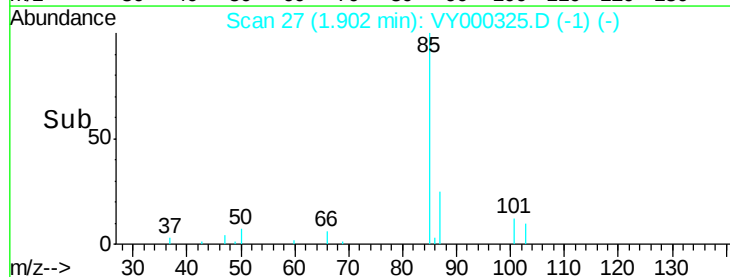
3000

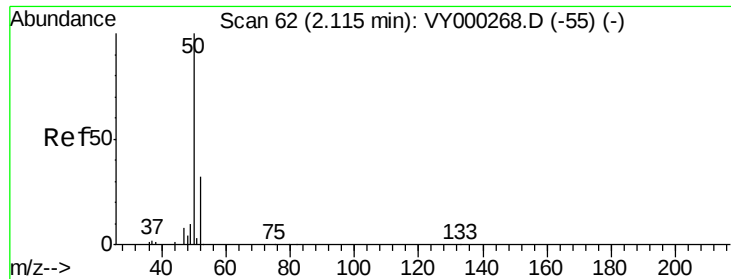
2000

1000

0

Time-->





#3

Chloromethane

Concen: 4.397 ug/l

RT: 2.11 min Scan# 61

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

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ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 50 Resp: 15010

Ion Ratio Lower Upper

50 100

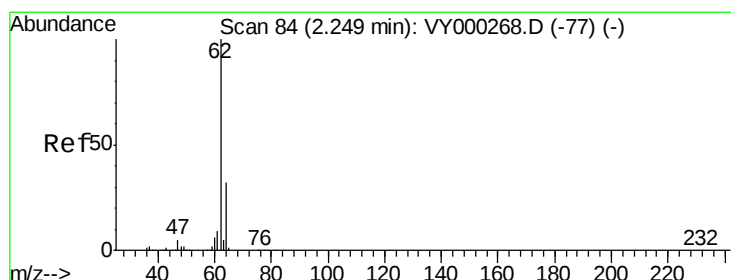
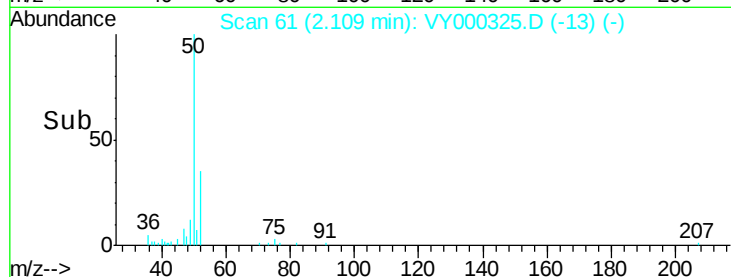
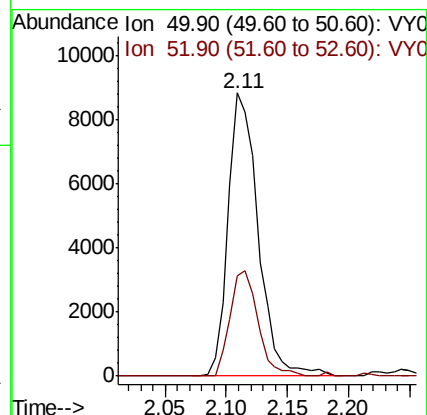
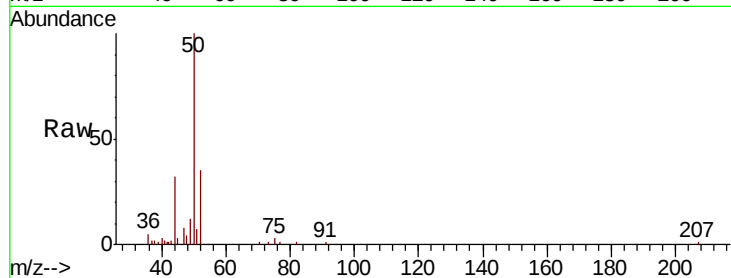
52 35.3 25.3 37.9

Manual Integrations

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10/18/2019 12:50:38 AM



#4

Vinyl Chloride

Concen: 2.659 ug/l

RT: 2.25 min Scan# 84

Delta R.T. 0.00 min

Lab File: VY000325.D

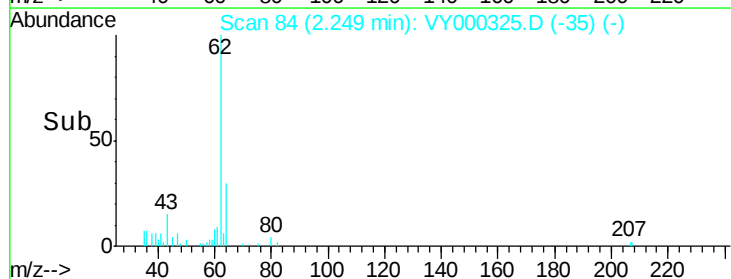
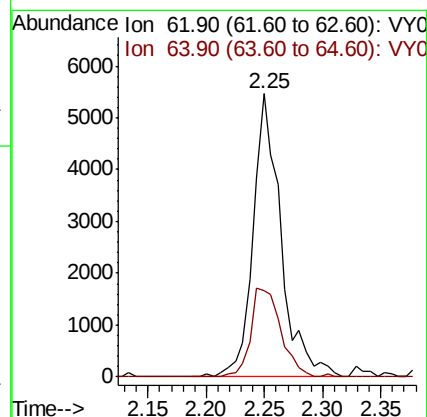
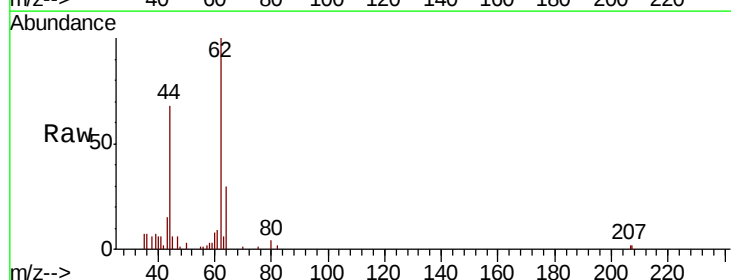
Acq: 16 Oct 2019 13:26

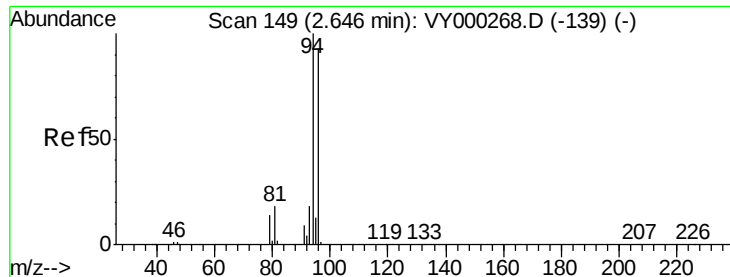
Tgt Ion: 62 Resp: 9160

Ion Ratio Lower Upper

62 100

64 30.4 25.6 38.4





#5

Bromomethane

Concen: 2.985 ug/l

RT: 2.65 min Scan# 150

Delta R.T. 0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 94 Resp: 7621

Ion Ratio Lower Upper

94 100

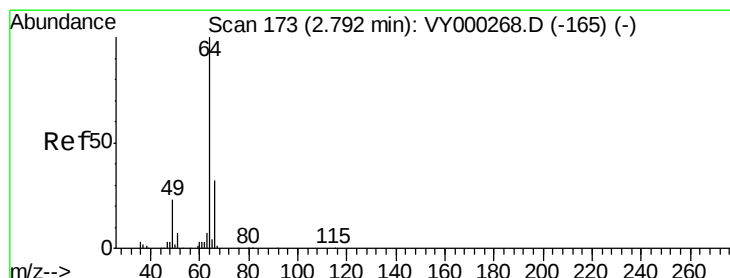
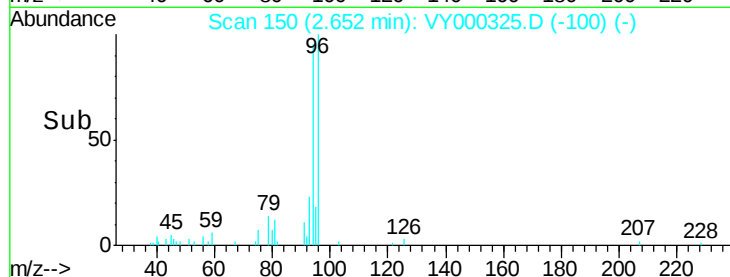
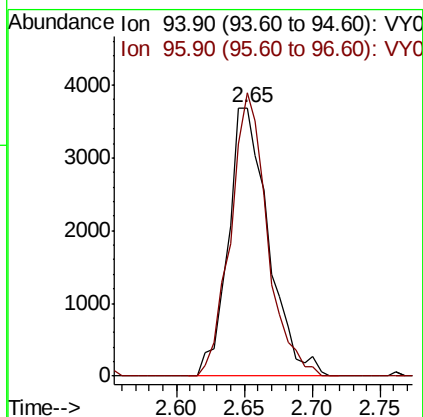
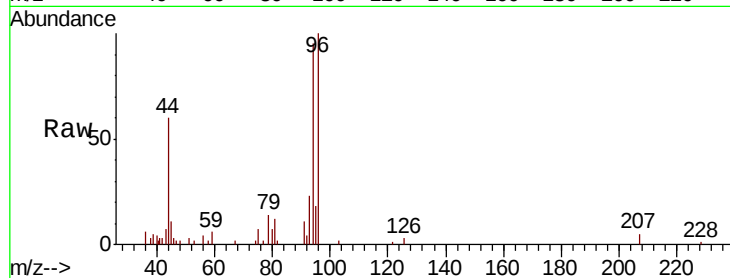
96 105.6 74.2 111.2

Manual Integrations

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#6

Chloroethane

Concen: 2.894 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.01 min

Lab File: VY000325.D

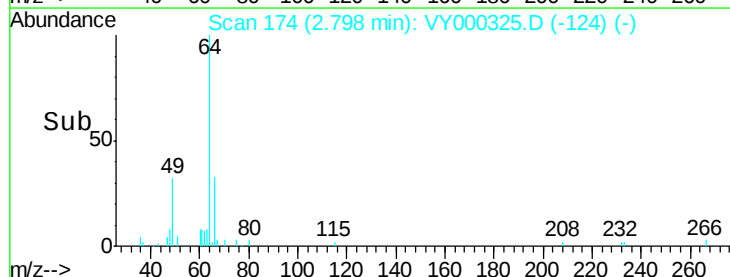
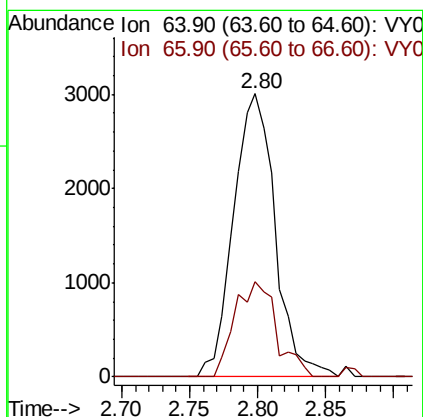
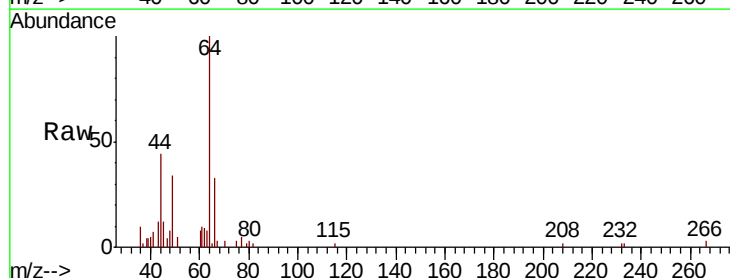
Acq: 16 Oct 2019 13:26

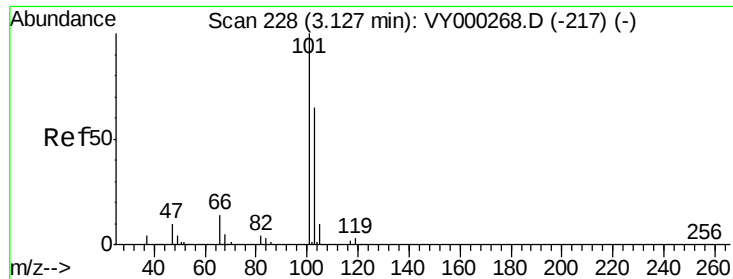
Tgt Ion: 64 Resp: 6432

Ion Ratio Lower Upper

64 100

66 33.5 25.6 38.4





#7

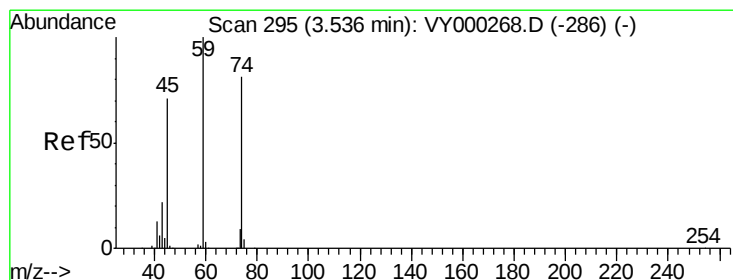
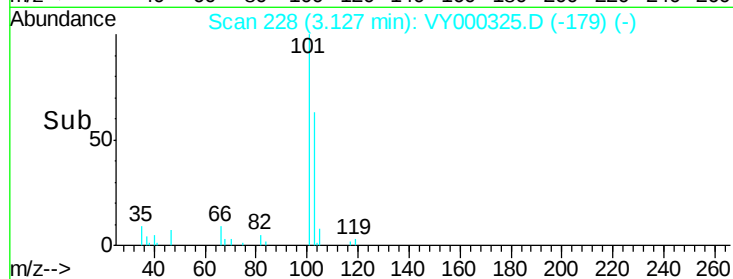
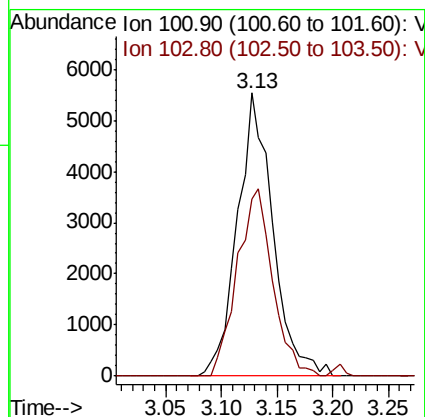
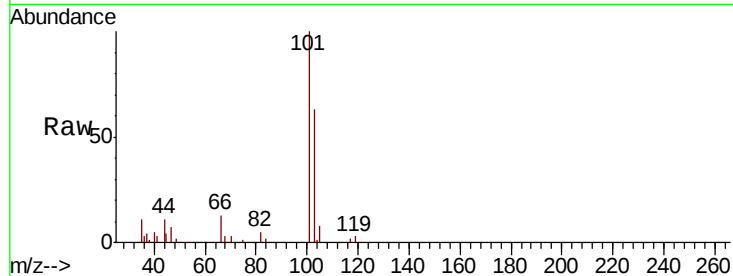
Trichlorofluoromethane
 Concen: 2.608 ug/l
 RT: 3.13 min Scan# 228
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
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 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.7	52.2	78.4

Manual Integrations
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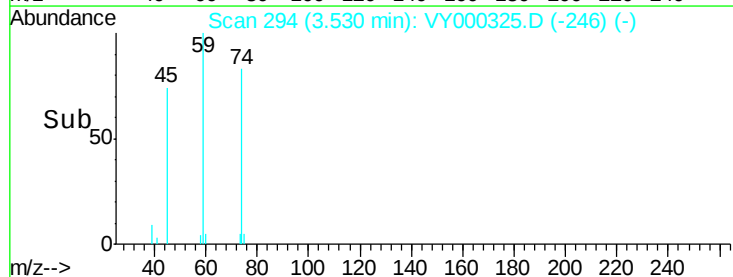
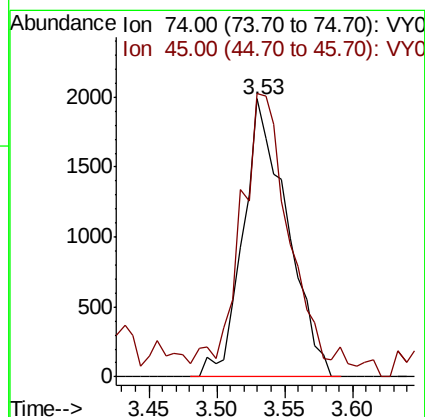
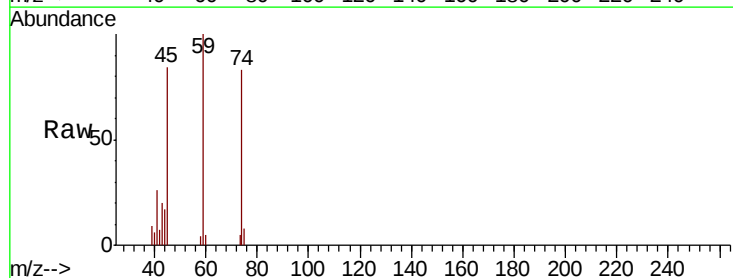
MMDadoda
 10/18/2019 12:50:38 AM

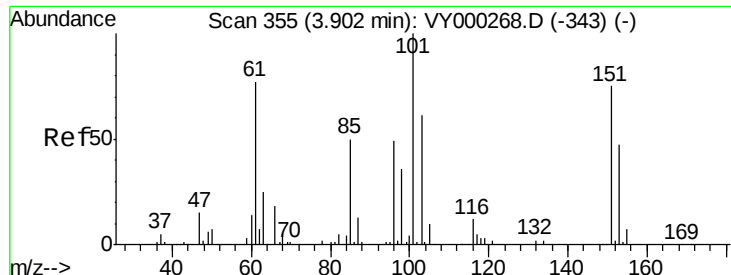


#8

Diethyl Ether
 Concen: 2.707 ug/l
 RT: 3.53 min Scan# 294
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.7	47.1	141.4





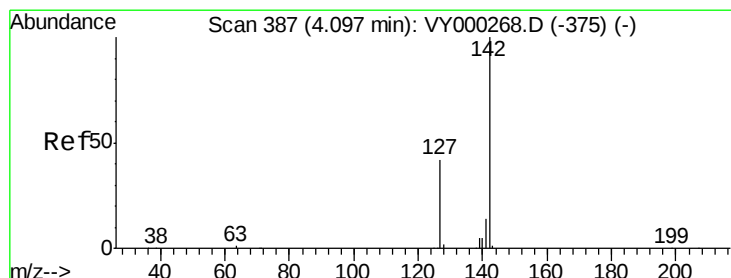
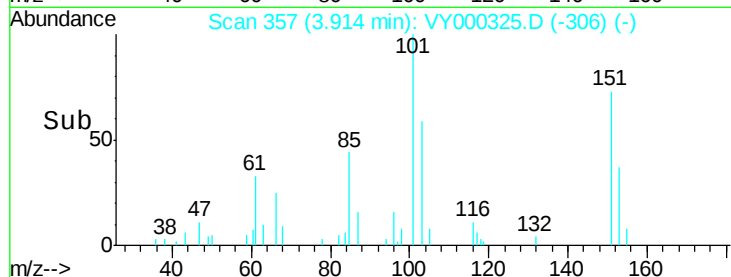
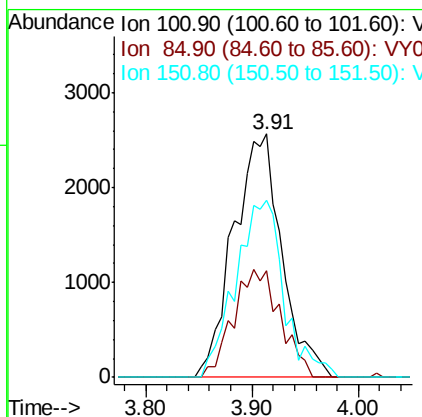
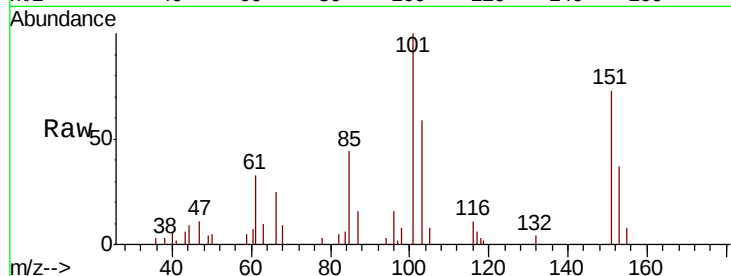
#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.848 ug/l
RT: 3.91 min Scan# 357
Delta R.T. 0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
85	43.2	36.6	55.0
151	72.7	63.1	94.7

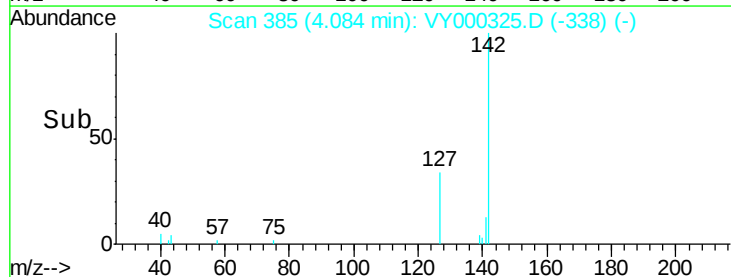
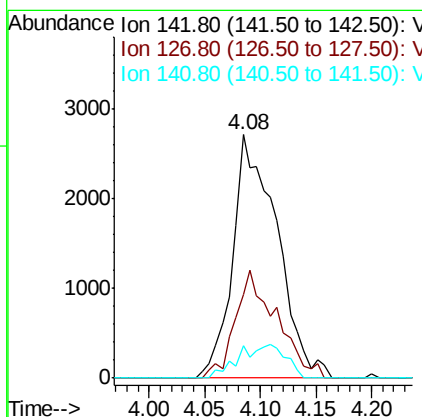
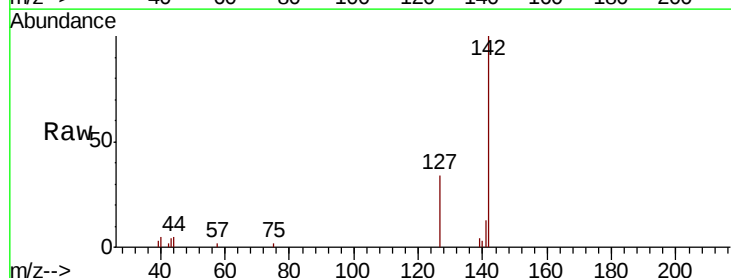
Manual Integrations
APPROVED

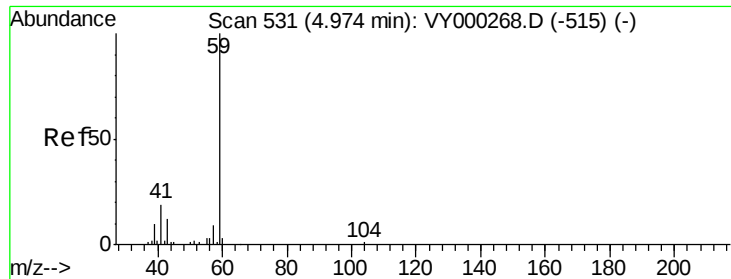
MMDadoda
10/18/2019 12:50:38 AM



#10
Methyl Iodide
Concen: 2.006 ug/l
RT: 4.08 min Scan# 385
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
142	100		
127	41.6	33.9	50.9
141	0.0	11.2	16.8#





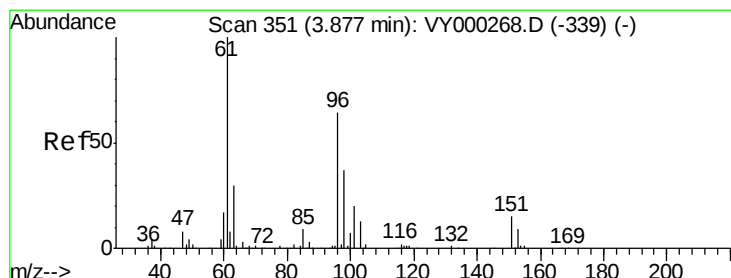
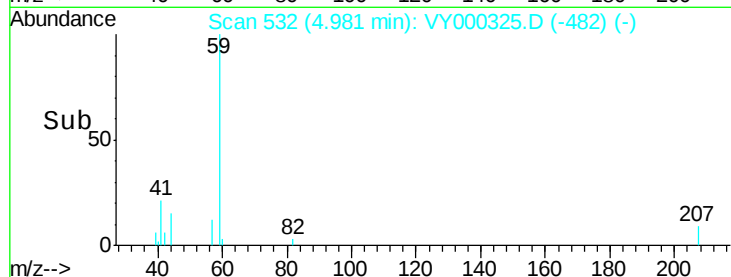
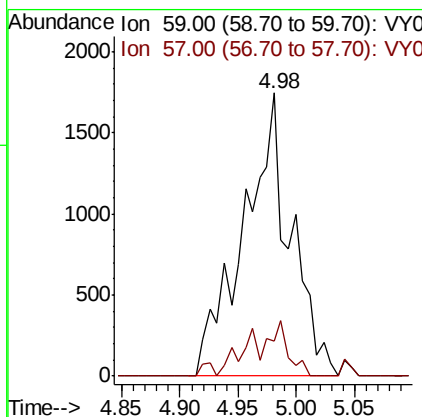
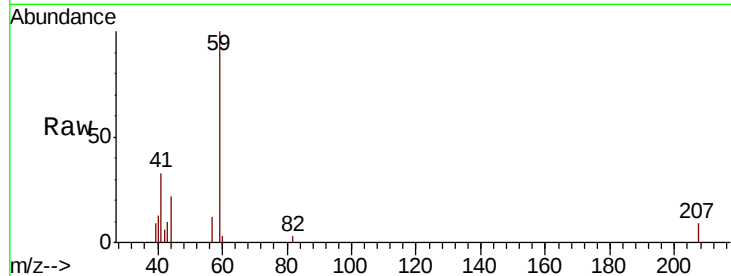
#11
Tert butyl alcohol
Concen: 15.813 ug/l
RT: 4.98 min Scan# 532
Delta R.T. 0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 59 Resp: 4876
Ion Ratio Lower Upper
59 100
57 8.1 8.2 12.2#

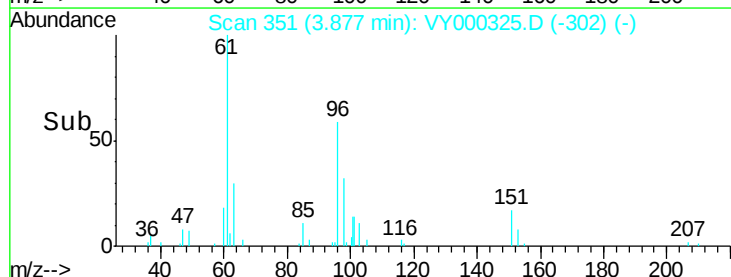
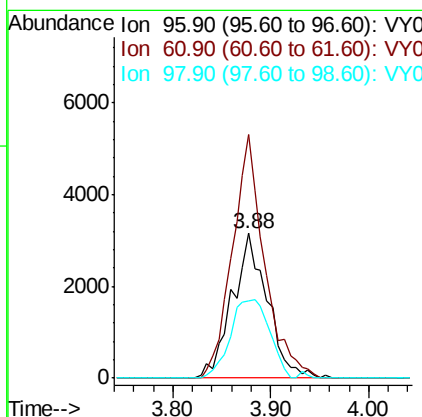
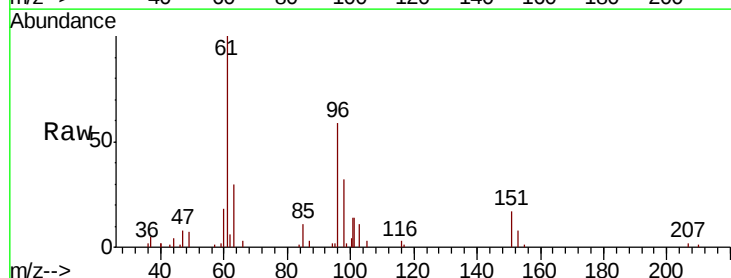
Manual Integrations
APPROVED

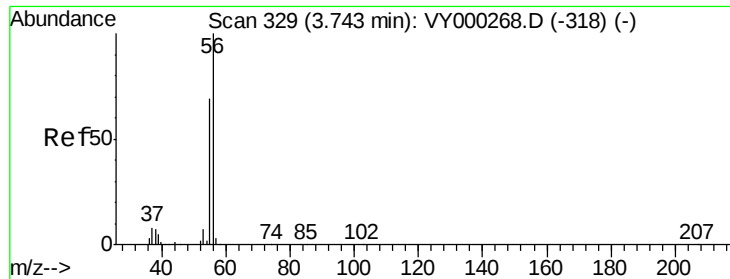
MMDadoda
10/18/2019 12:50:38 AM



#12
1,1-Dichloroethene
Concen: 2.785 ug/l
RT: 3.88 min Scan# 351
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion: 96 Resp: 7856
Ion Ratio Lower Upper
96 100
61 168.5 125.8 188.6
98 53.1 46.2 69.2





#13

Acrolein

Concen: 13.214 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 56 Resp: 4777

Ion Ratio Lower Upper

56 100

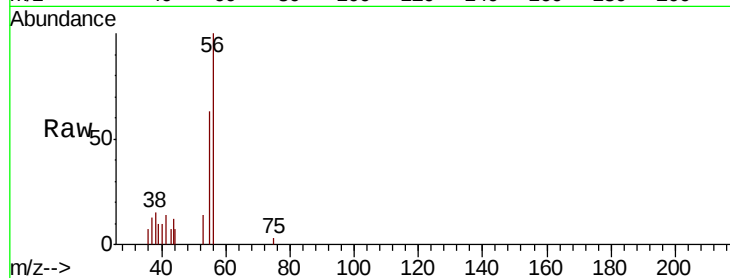
55 70.9 55.7 83.5

Manual Integrations

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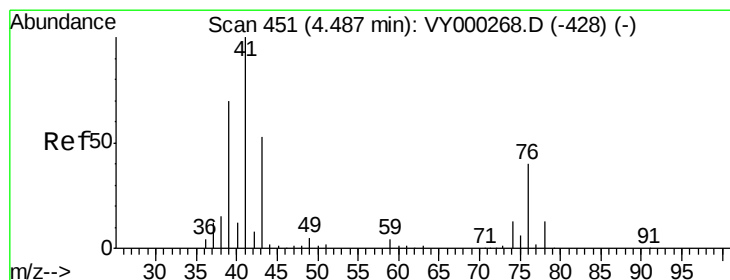
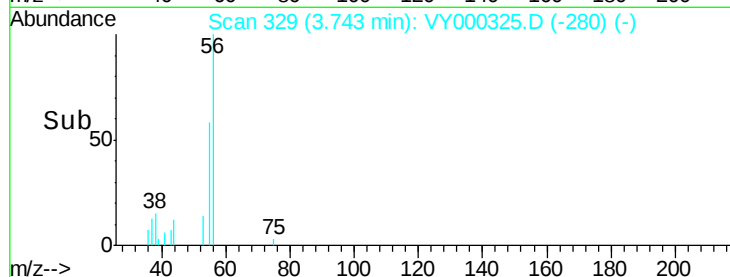
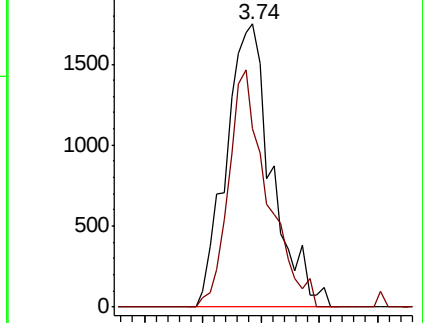
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 2.653 ug/l

RT: 4.49 min Scan# 452

Delta R.T. 0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

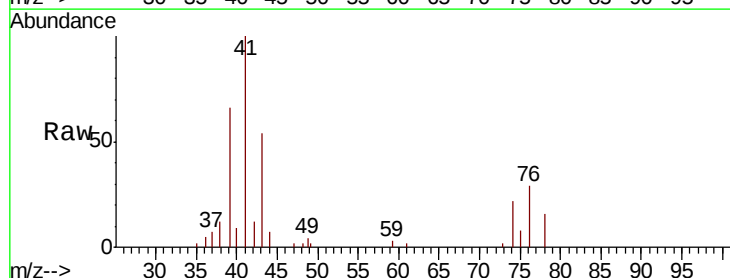
Tgt Ion: 41 Resp: 12401

Ion Ratio Lower Upper

41 100

39 71.5 54.0 81.0

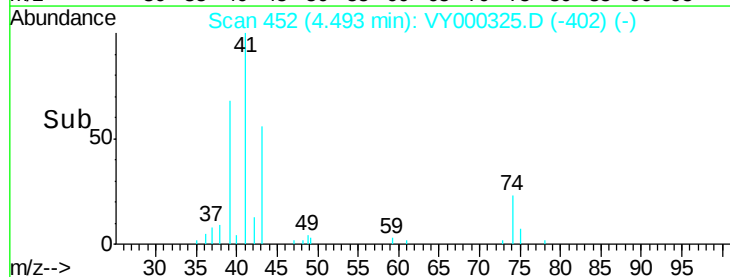
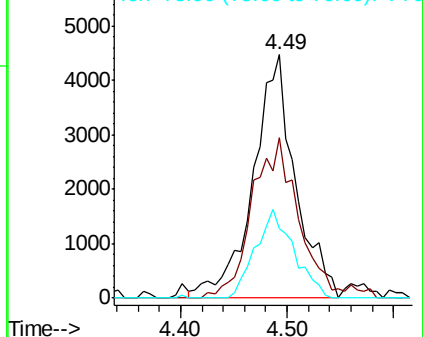
76 33.0 30.7 46.1

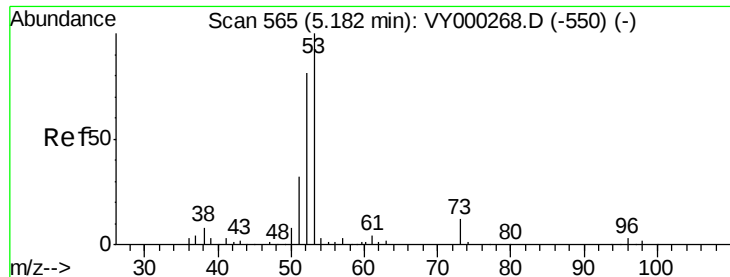


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 13.889 ug/l

RT: 5.18 min Scan# 564

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

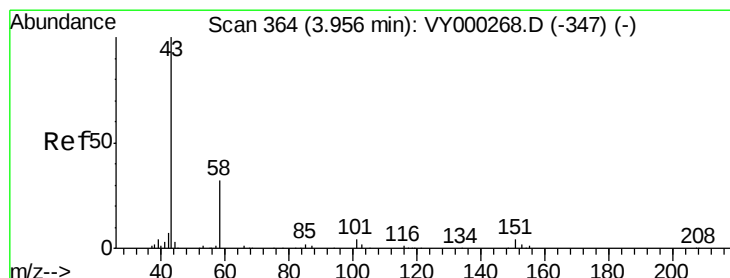
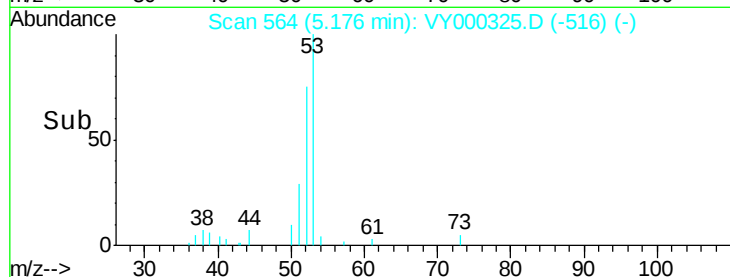
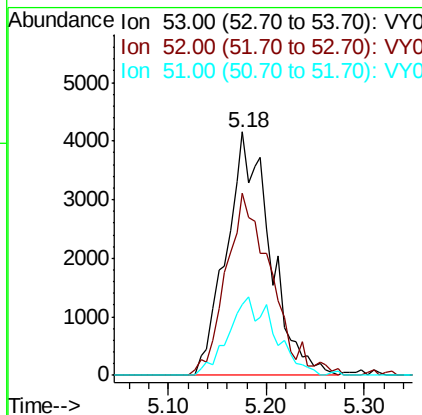
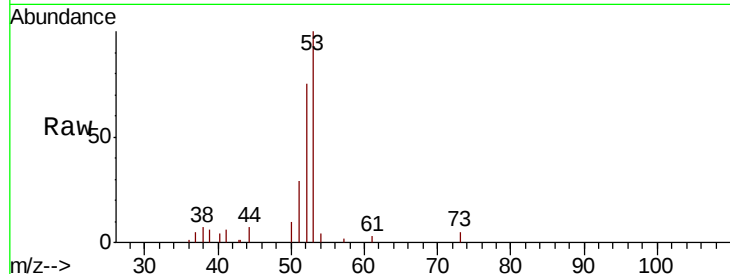
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	53	Resp:	12941
Ion	Ratio	Lower	Upper
53	100		
52	75.7	62.9	94.3
51	33.5	26.9	40.3

Manual Integrations
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#16

Acetone

Concen: 12.987 ug/l

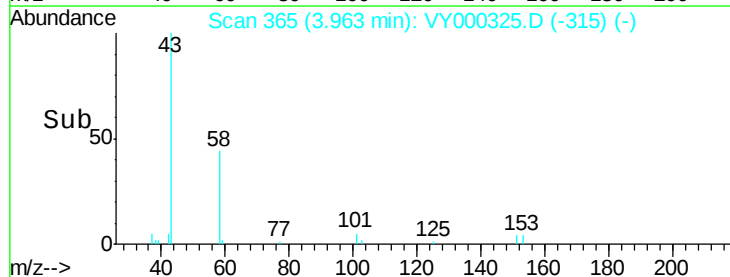
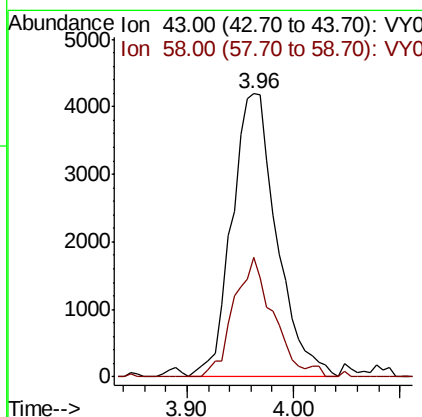
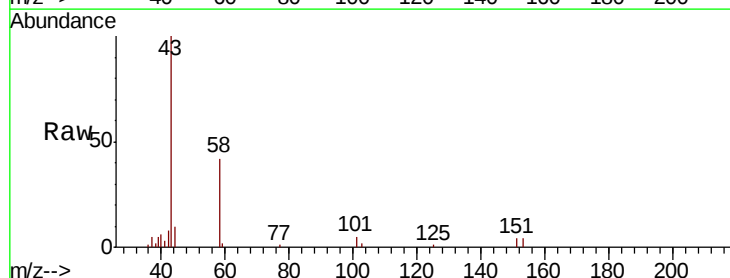
RT: 3.96 min Scan# 365

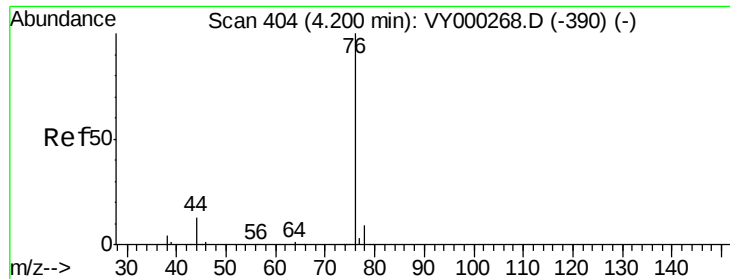
Delta R.T. 0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Tgt Ion:	43	Resp:	12392
Ion	Ratio	Lower	Upper
43	100		
58	42.3	25.8	38.6#





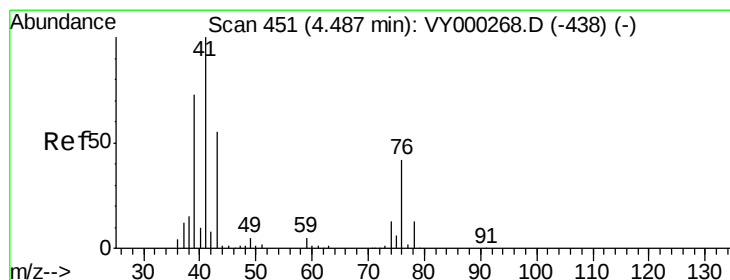
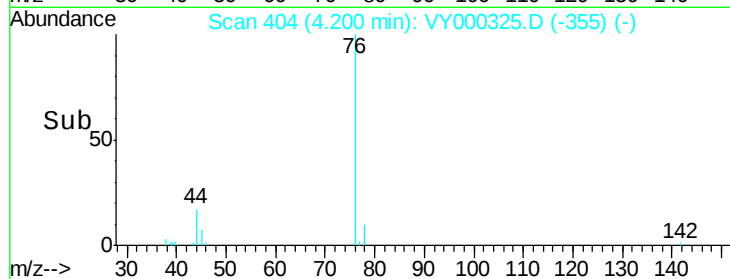
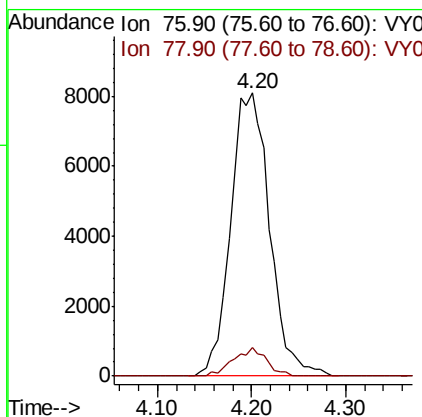
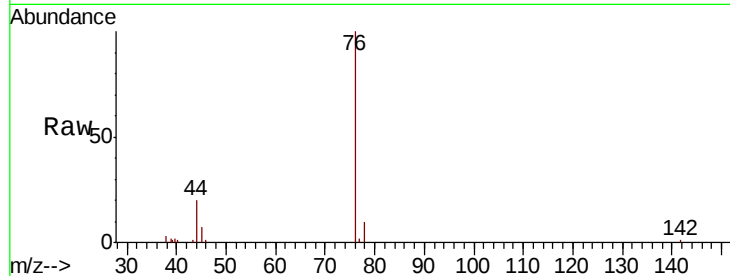
#17
Carbon Disulfide
Concen: 2.625 ug/l
RT: 4.20 min Scan# 404
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 76 Resp: 23320
Ion Ratio Lower Upper
76 100
78 10.3 7.0 10.4

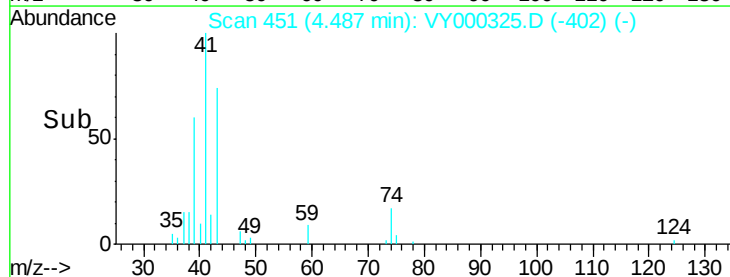
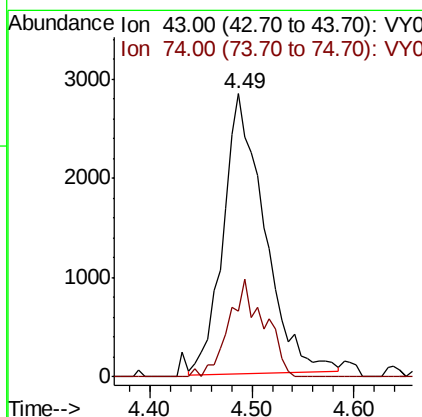
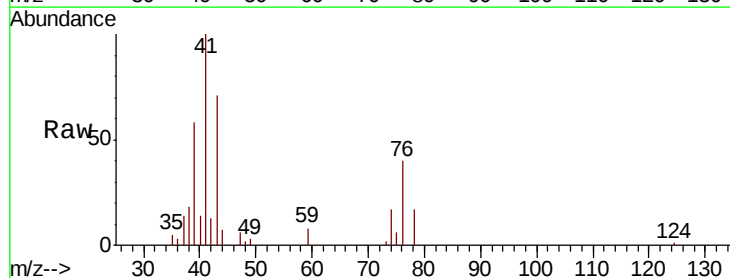
Manual Integrations
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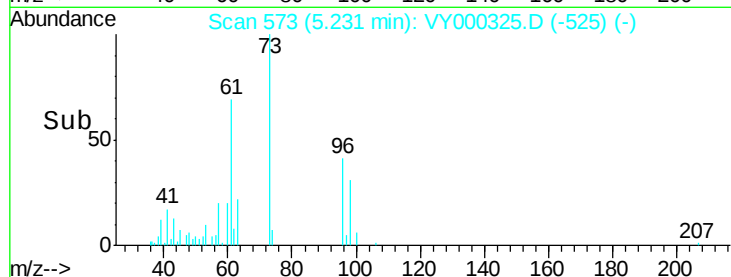
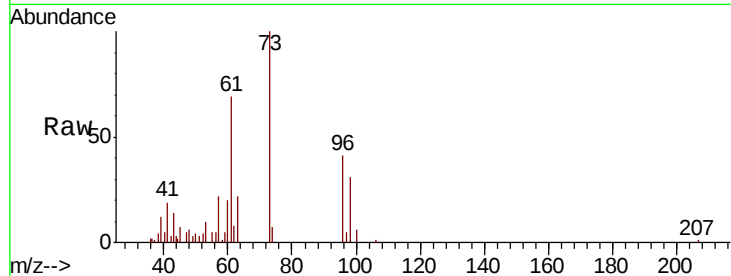
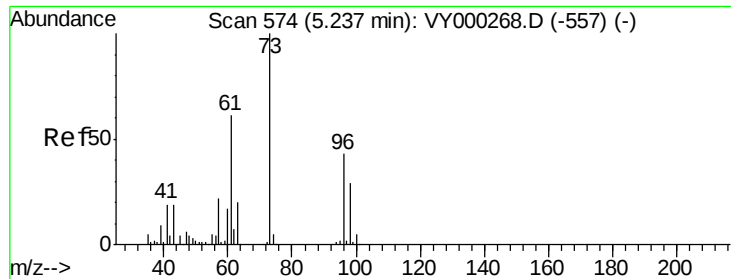
MMDadoda
10/18/2019 12:50:38 AM



#18
Methyl Acetate
Concen: 3.352 ug/l
RT: 4.49 min Scan# 451
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion: 43 Resp: 7947
Ion Ratio Lower Upper
43 100
74 29.9 20.4 30.6





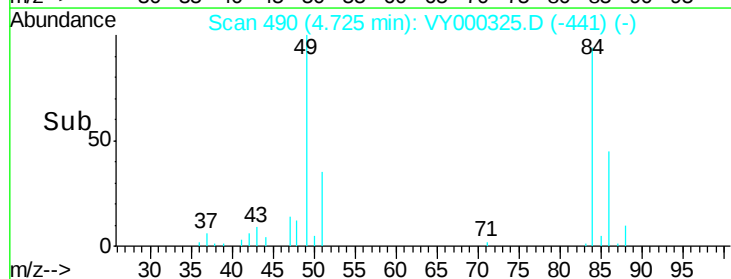
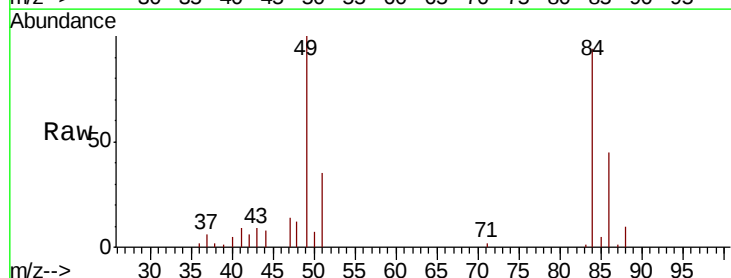
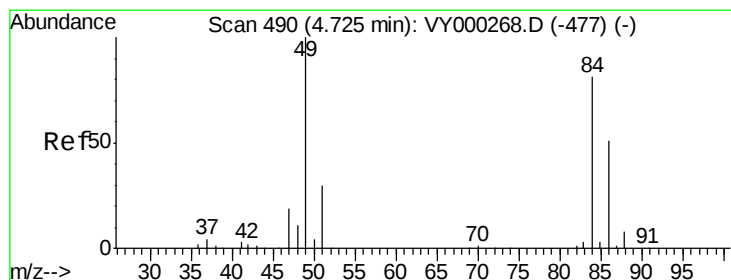
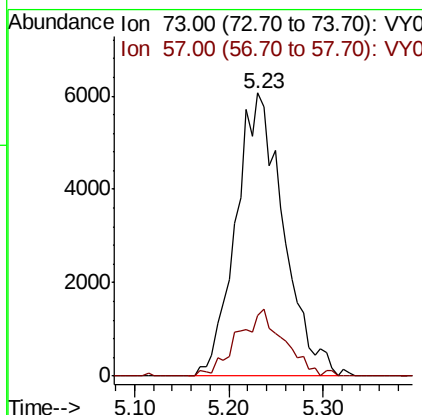
#19
Methvl tert-butvl Ether
Concen: 2.726 ug/l
RT: 5.23 min Scan# 573
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tot Ion: 73 Resp: 21408
Ion Ratio Lower Upper
73 100
57 21.5 17.4 26.0

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

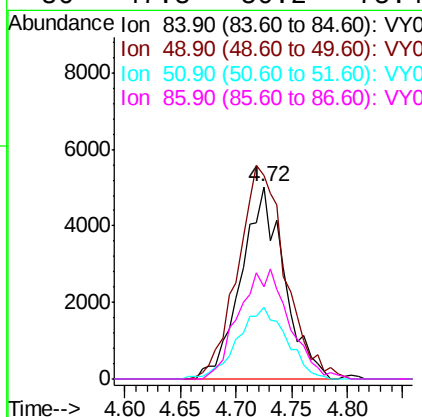
Manual Integrations
APPROVED

MMDadoda
10/18/2019 12:50:38 AM



#20
Methylene Chloride
Concen: 3.462 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion: 84 Resp: 13546
Ion Ratio Lower Upper
84 100
49 105.9 99.0 148.4
51 37.0 29.3 43.9
86 47.8 50.2 75.4#





#21

trans-1,2-Dichloroethene

Concen: 2.751 ug/l

RT: 5.22 min Scan# 572

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

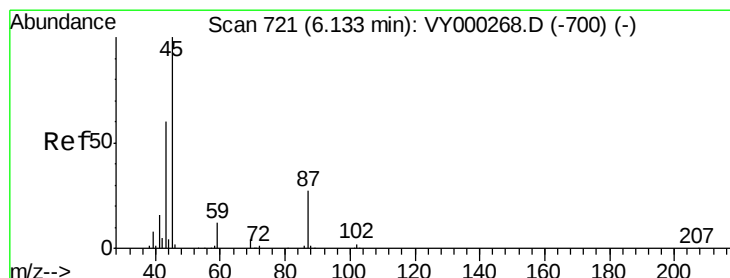
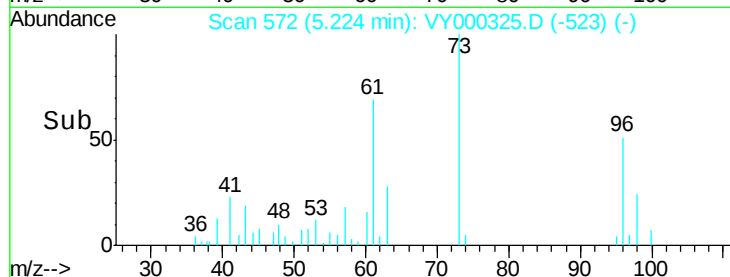
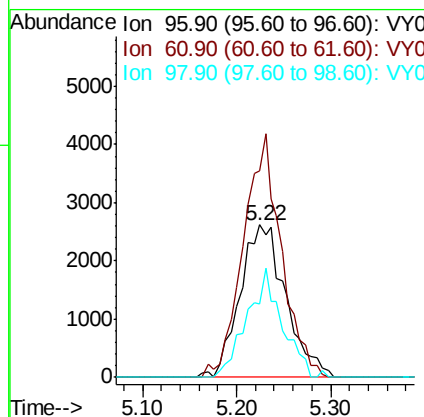
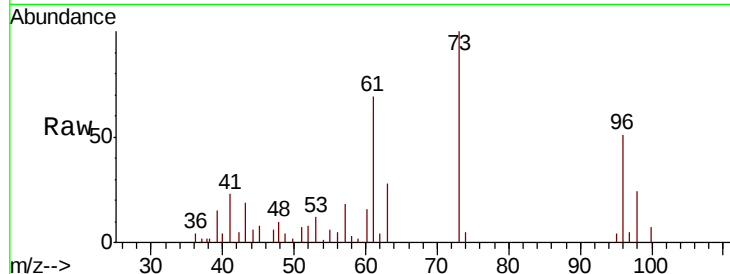
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	96	Resp:	8903
Ion	Ratio	Lower	Upper
96	100		
61	135.5	100.4	150.6
98	47.9	44.6	66.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 2.610 ug/l

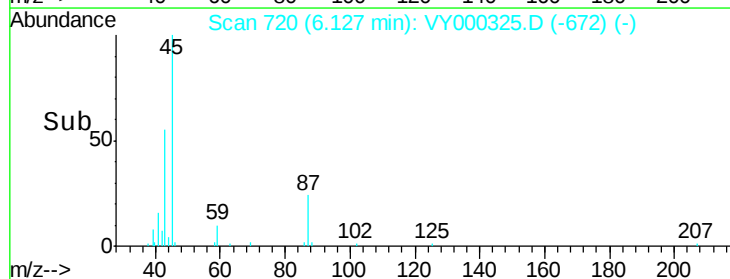
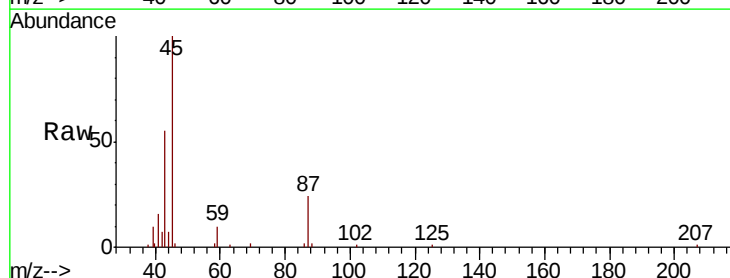
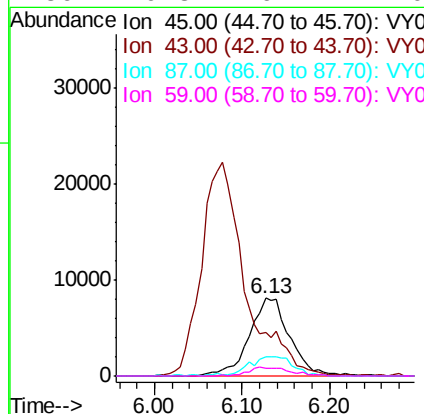
RT: 6.13 min Scan# 720

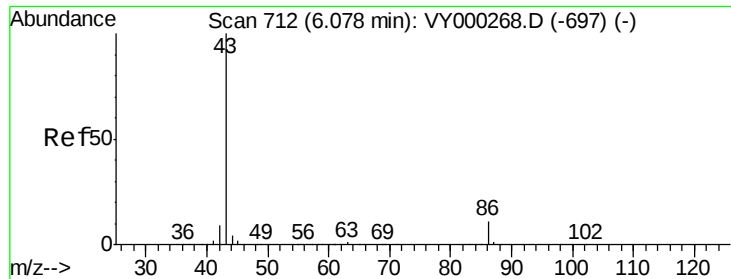
Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Tgt Ion:	45	Resp:	25808
Ion	Ratio	Lower	Upper
45	100		
43	53.7	48.5	72.7
87	24.0	21.5	32.3
59	10.3	9.4	14.0





#23

Vinyl Acetate

Concen: 12.081 ug/l

RT: 6.08 min Scan# 712

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 43 Resp: 77934

Ion Ratio Lower Upper

43 100

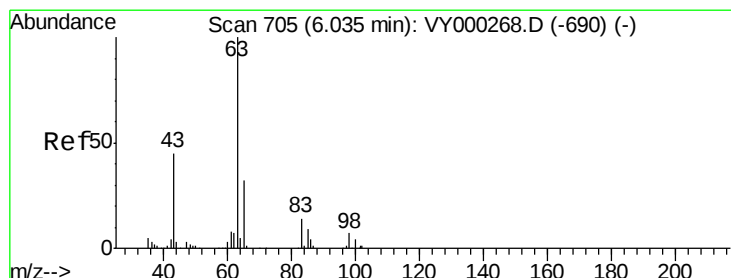
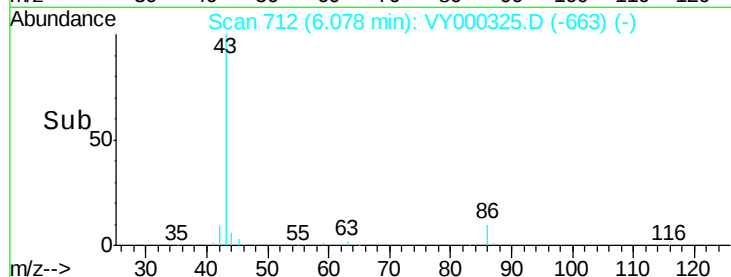
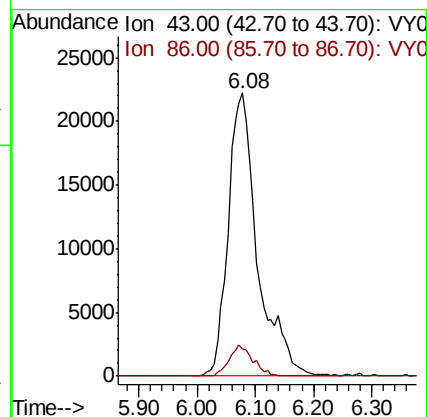
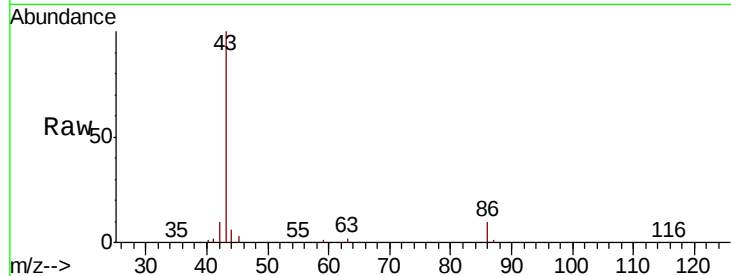
86 9.8 8.6 13.0

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 2.637 ug/l

RT: 6.03 min Scan# 704

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

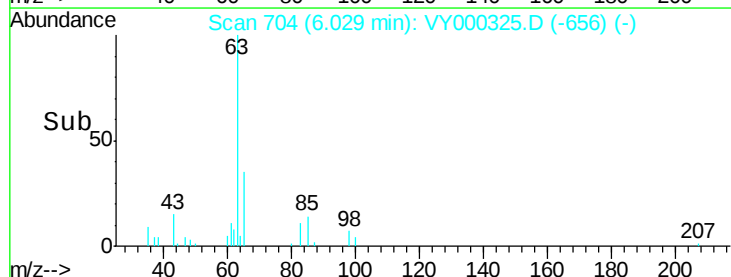
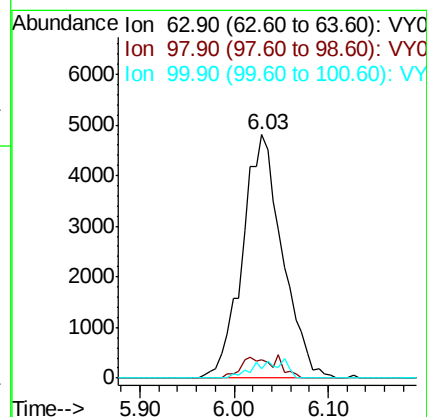
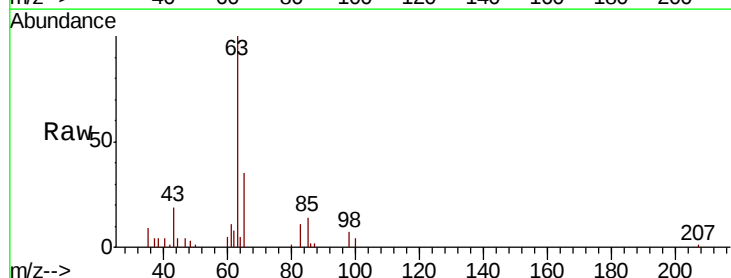
Tgt Ion: 63 Resp: 14232

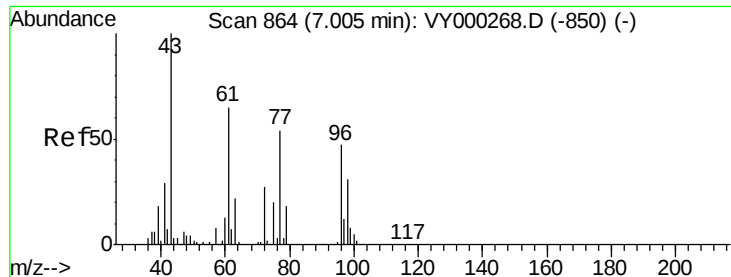
Ion Ratio Lower Upper

63 100

98 7.4 3.5 10.4

100 3.8 2.1 6.2





#25

2-Butanone

Concen: 14.970 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 43 Resp: 20122

Ion Ratio Lower Upper

43 100

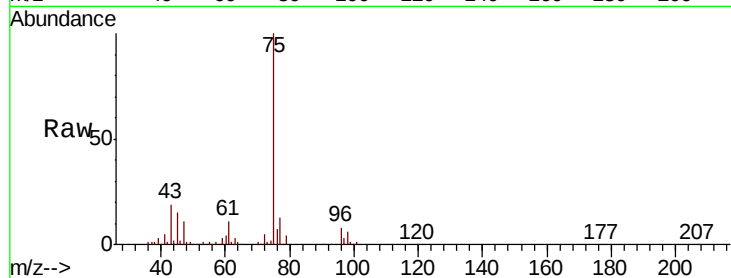
72 26.9 21.4 32.2

Manual Integrations

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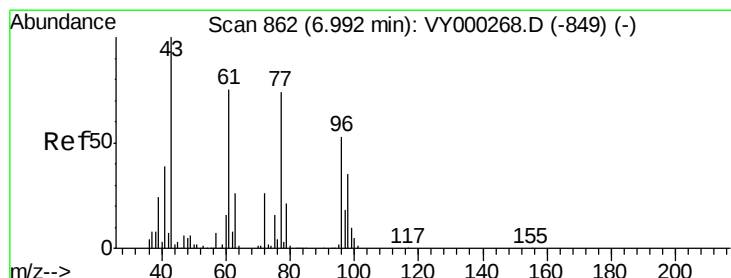
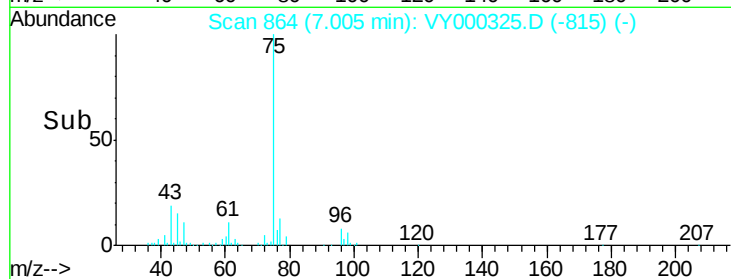
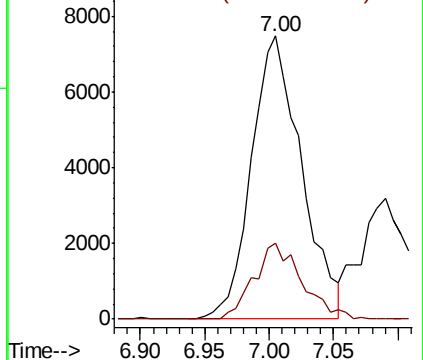
MMDadoda

10/18/2019 12:50:38 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 3.379 ug/l

RT: 6.99 min Scan# 862

Delta R.T. 0.00 min

Lab File: VY000325.D

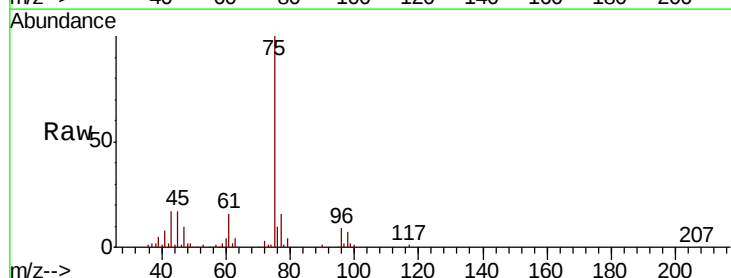
Acq: 16 Oct 2019 13:26

Tgt Ion: 77 Resp: 16806

Ion Ratio Lower Upper

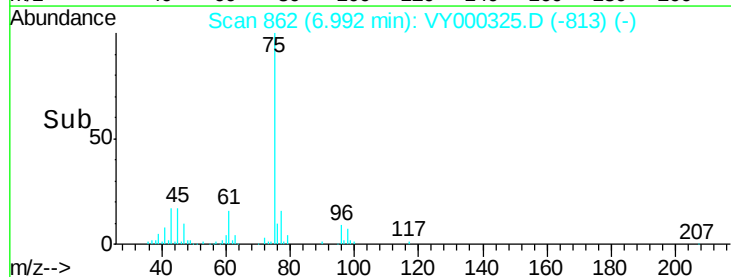
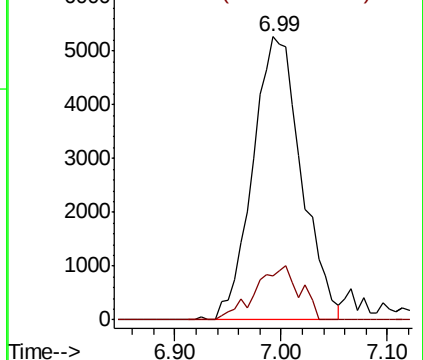
77 100

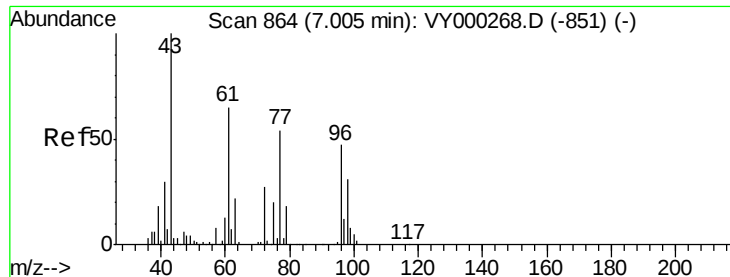
97 17.3 11.6 34.7



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0





#27

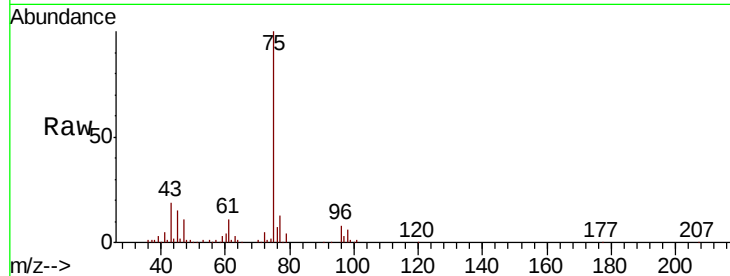
cis-1,2-Dichloroethene
 Concen: 2.752 ug/l
 RT: 7.00 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

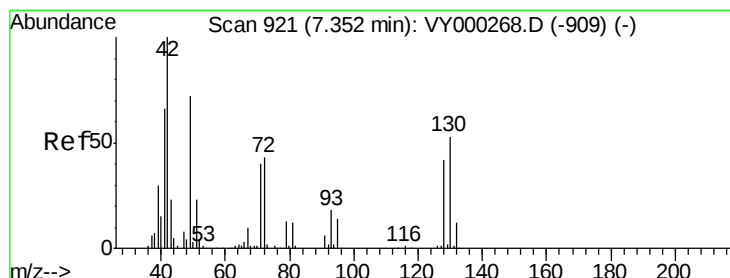
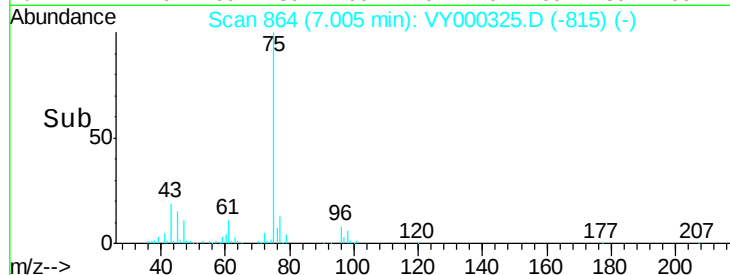
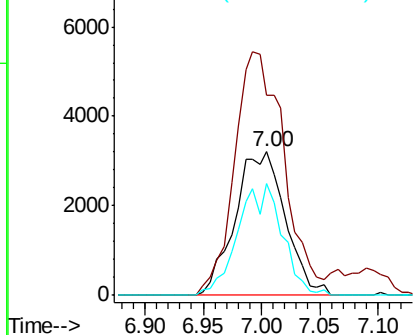
Tot Ion	Ratio	Lower	Upper
96	100		
61	167.1	0.0	289.8
98	37.5	0.0	131.8

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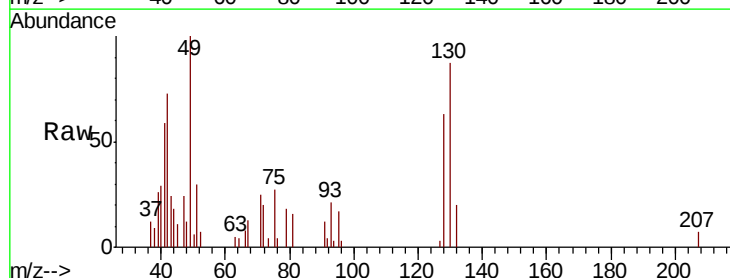
Abundance Ion 95.90 (95.60 to 96.60): VY0
 Ion 60.90 (60.60 to 61.60): VY0
 Ion 97.90 (97.60 to 98.60): VY0



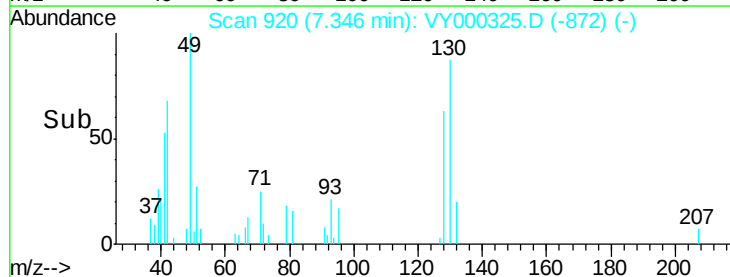
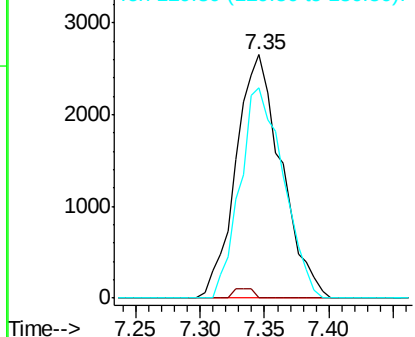
#28

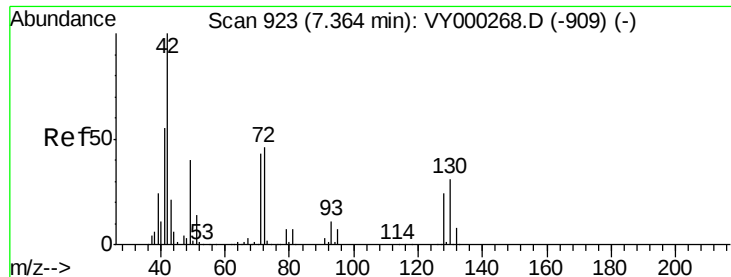
Bromochloromethane
 Concen: 2.797 ug/l
 RT: 7.35 min Scan# 920
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	82.6	58.2	87.2



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





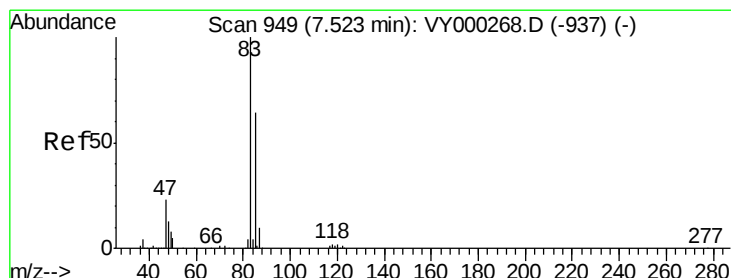
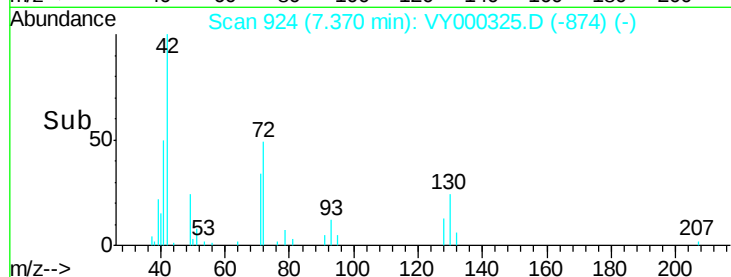
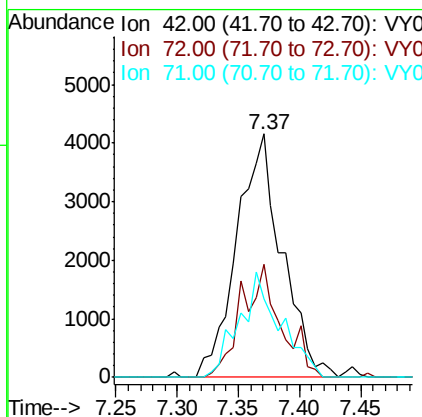
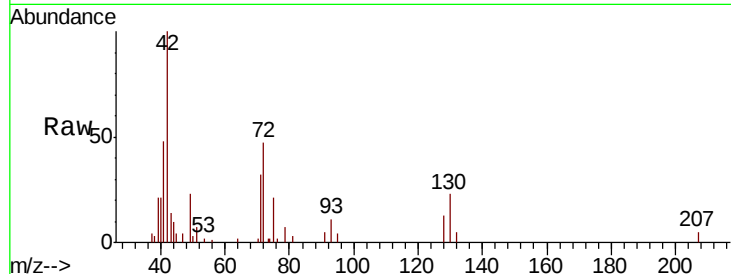
#29
Tetrahydrofuran
Concen: 13.152 ug/l
RT: 7.37 min Scan# 924
Delta R.T. 0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	34.5	51.7
71	39.0	32.7	49.1

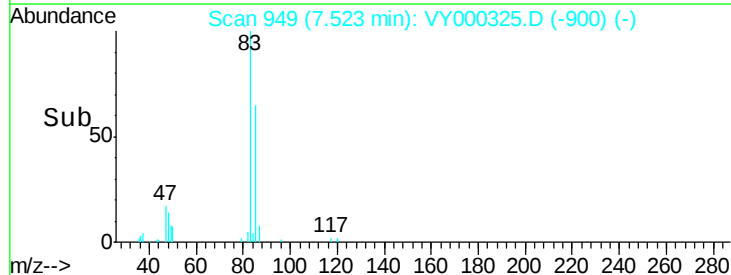
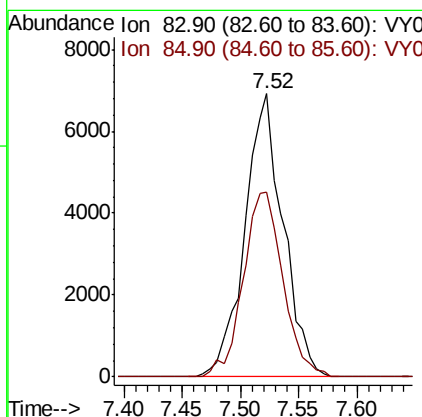
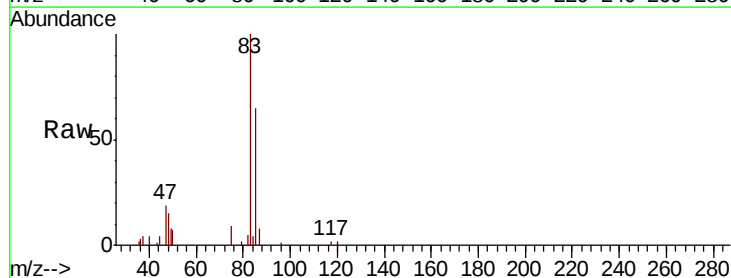
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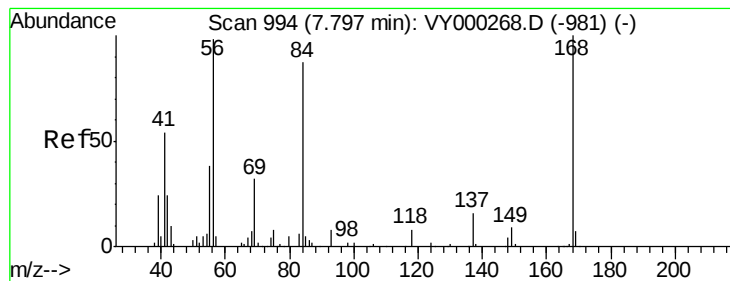
MMDadoda
10/18/2019 12:50:38 AM



#30
Chloroform
Concen: 2.901 ug/l
RT: 7.52 min Scan# 949
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.4	77.2





#31

Cyclohexane

Concen: 3.390 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

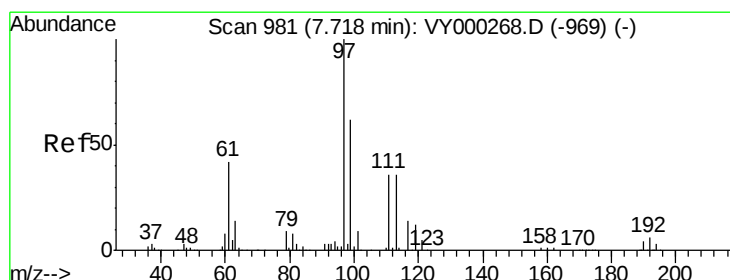
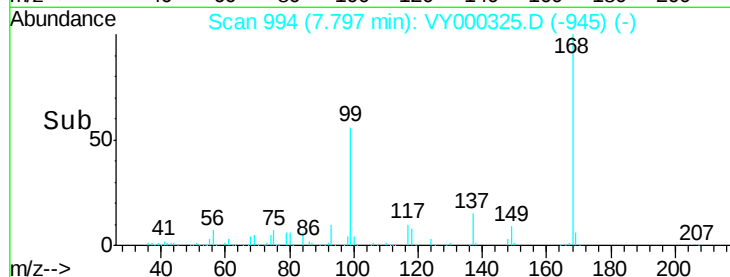
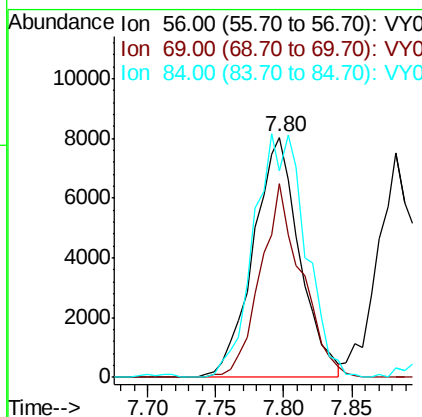
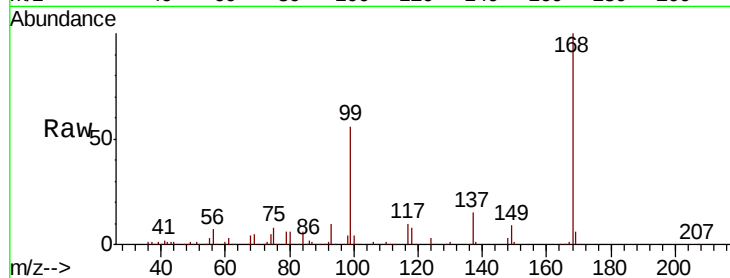
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	56	Resp:	19112
Ion Ratio	Lower	Upper	
56	100		
69	80.8	26.3	39.5#
84	86.2	70.8	106.2

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#32

1,1,1-Trichloroethane

Concen: 2.574 ug/l

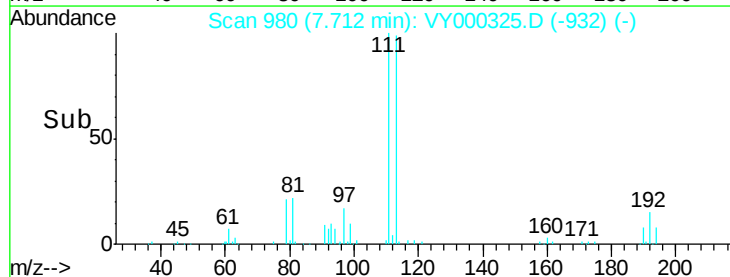
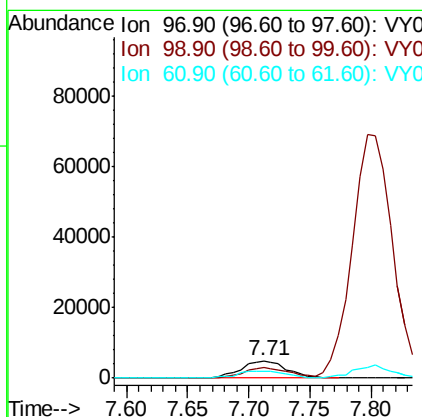
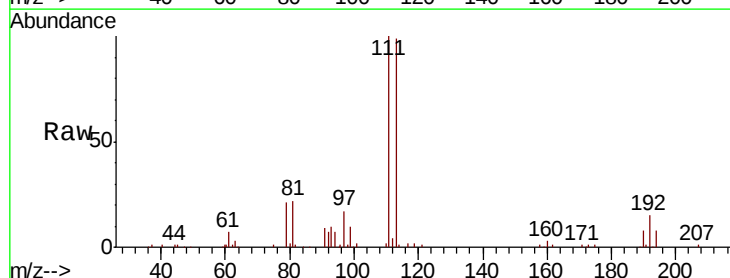
RT: 7.71 min Scan# 980

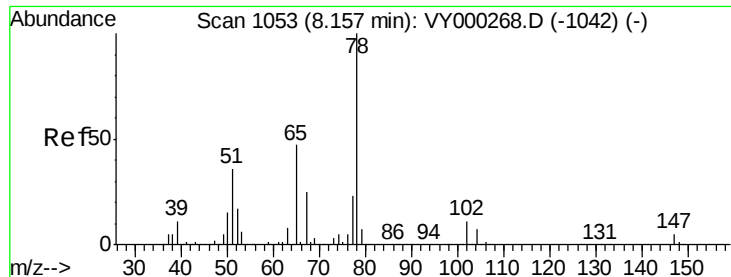
Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Tgt Ion:	97	Resp:	12440
Ion Ratio	Lower	Upper	
97	100		
99	64.4	51.7	77.5
61	44.2	34.5	51.7





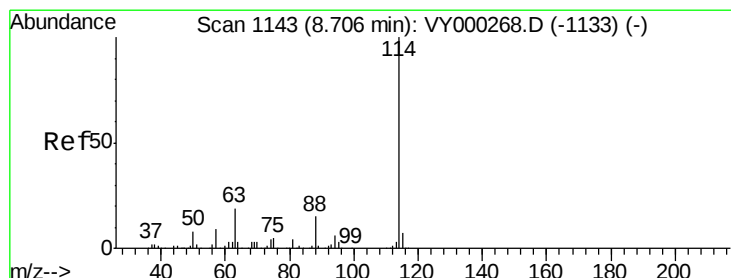
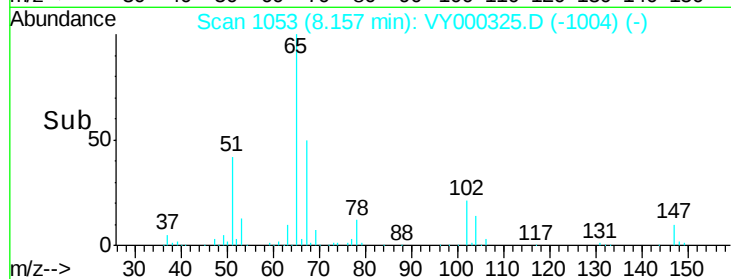
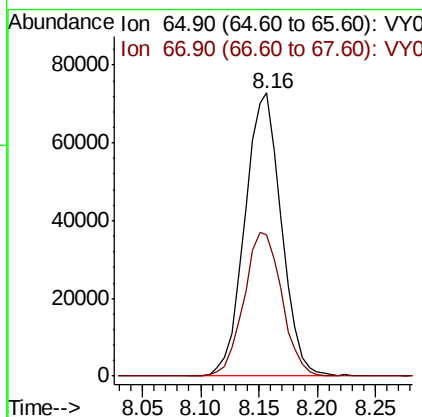
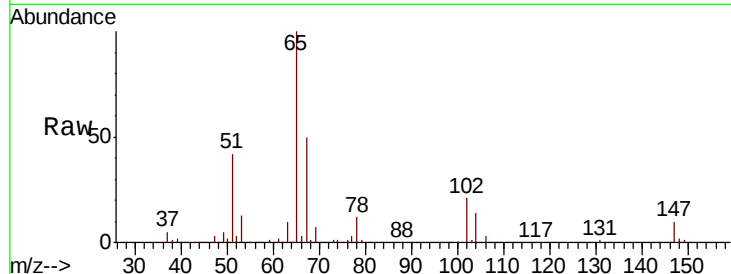
#33
 1,2-Dichloroethane-d4
 Concen: 53.929 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	158903		
67	52.8	0.0	109.4	

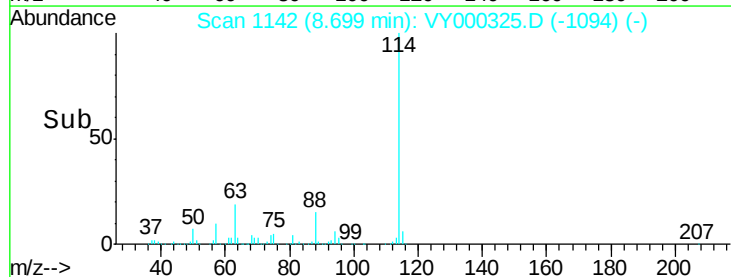
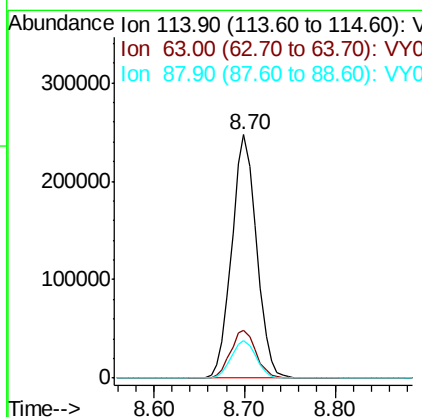
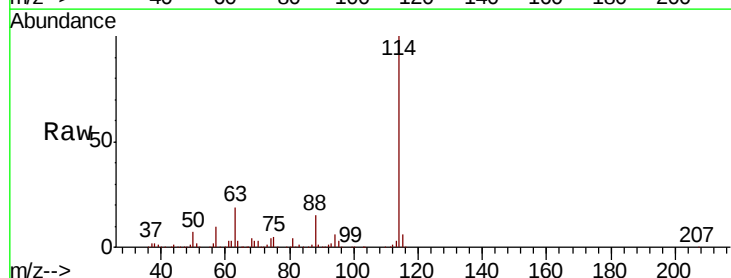
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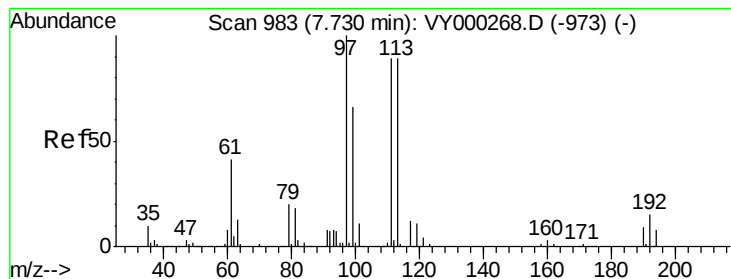
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 10/18/2019 12:50:38 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	469994		
63	19.4	0.0	37.2	
88	15.2	0.0	30.2	





#35

Dibromofluoromethane

Concen: 48.696 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

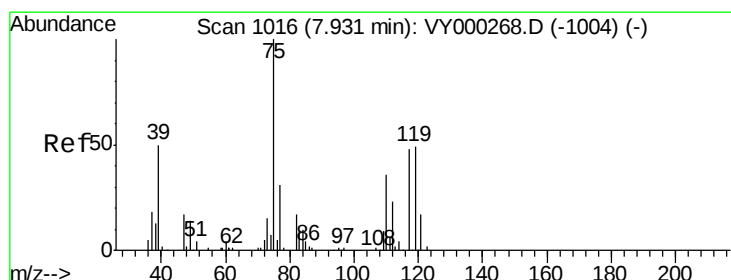
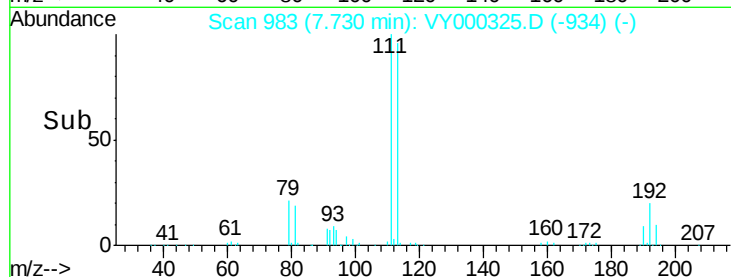
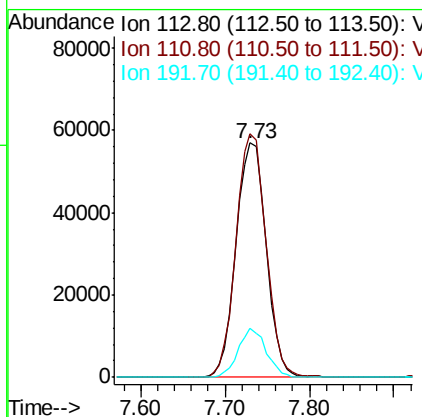
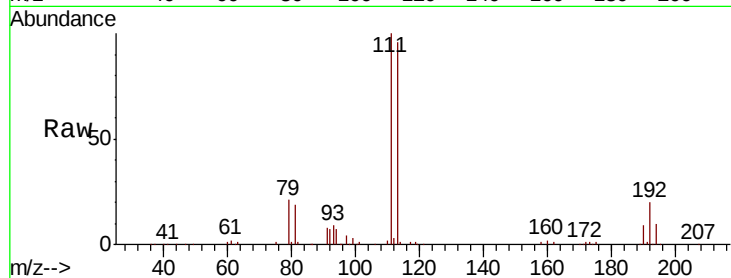
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	113	Resp:	138055
Ion Ratio	Lower	Upper	
113	100		
111	102.9	81.6	122.4
192	19.1	15.3	22.9

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#36

1,1-Dichloropropene

Concen: 2.494 ug/l

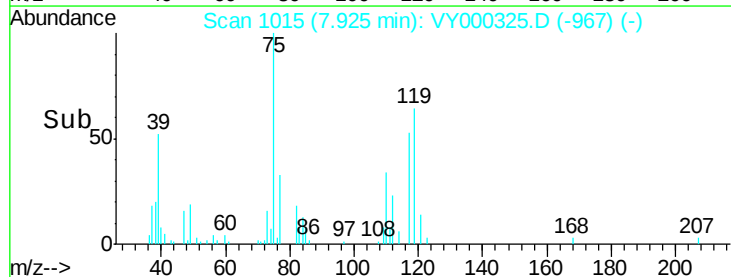
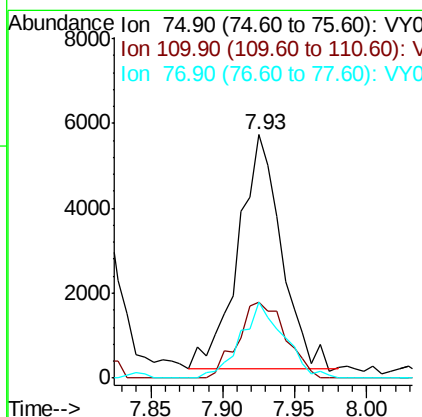
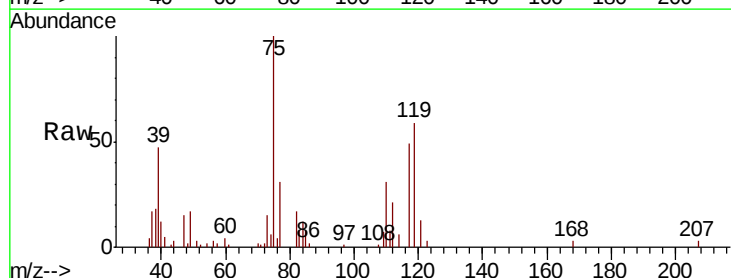
RT: 7.93 min Scan# 1015

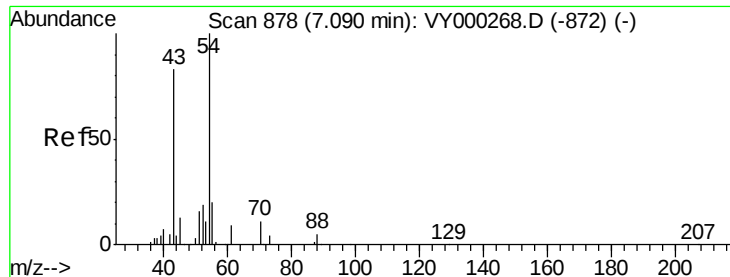
Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Tgt Ion:	75	Resp:	11476
Ion Ratio	Lower	Upper	
75	100		
110	35.6	18.4	55.4
77	32.5	25.0	37.6





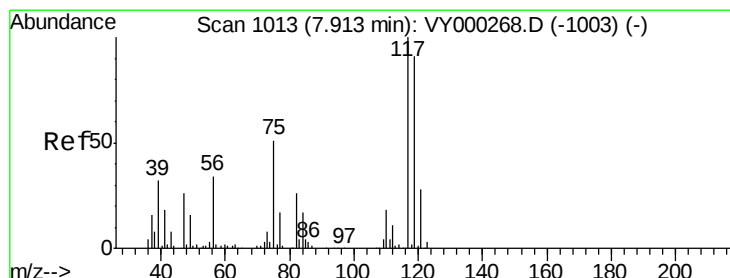
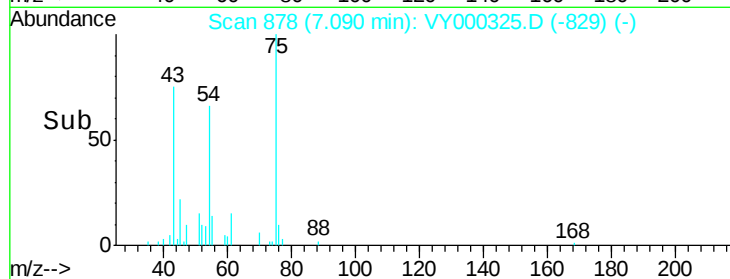
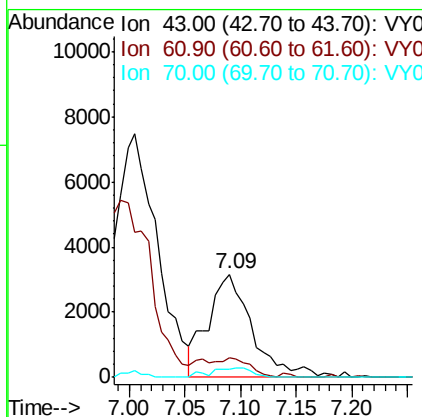
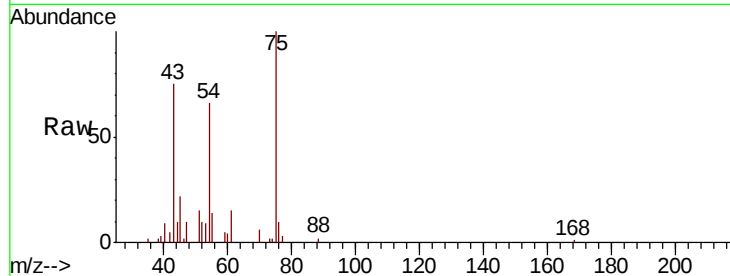
#37
Ethyl Acetate
Concen: 3.210 ug/l
RT: 7.09 min Scan# 878
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	9.9	12.1	18.1#
70	8.5	8.7	13.1#

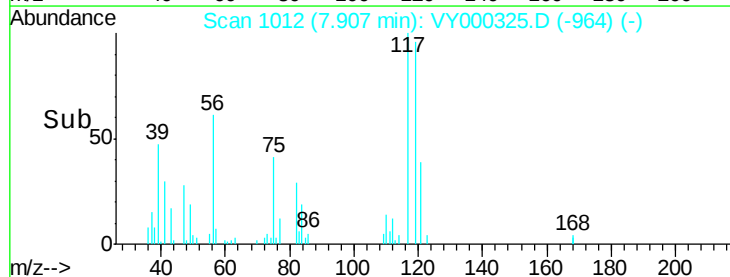
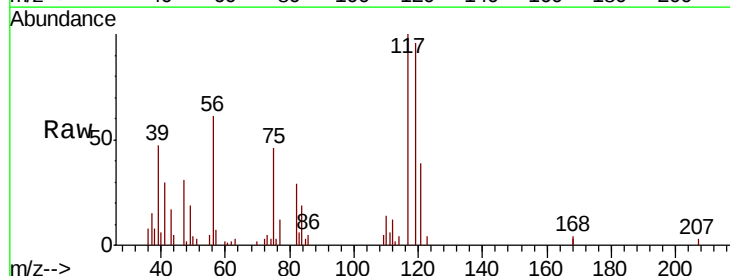
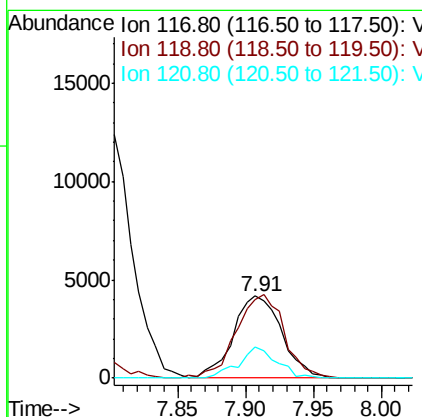
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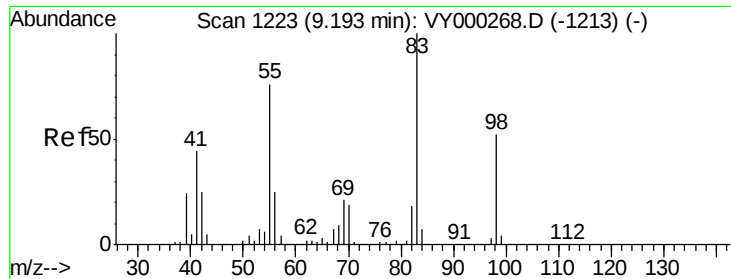
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#38
Carbon Tetrachloride
Concen: 2.348 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	72.8	109.2
121	38.7	22.2	33.2#





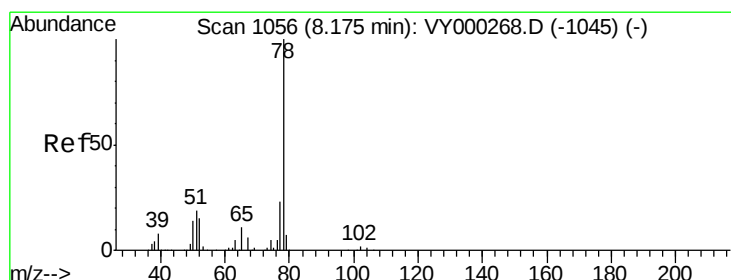
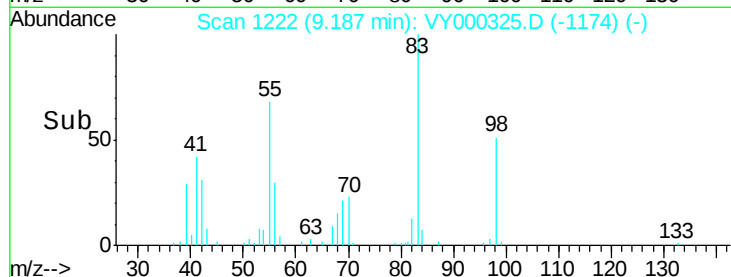
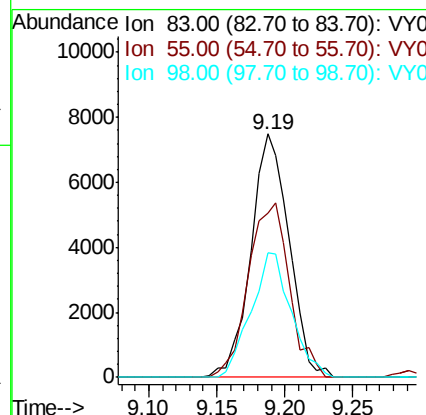
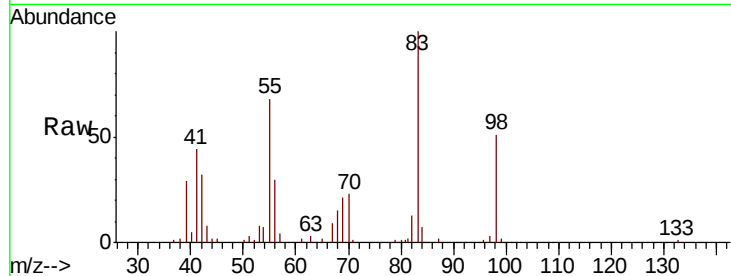
#39
Methvlcvclohexane
Concen: 2.440 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	67.6	60.9	91.3
98	51.2	41.8	62.6

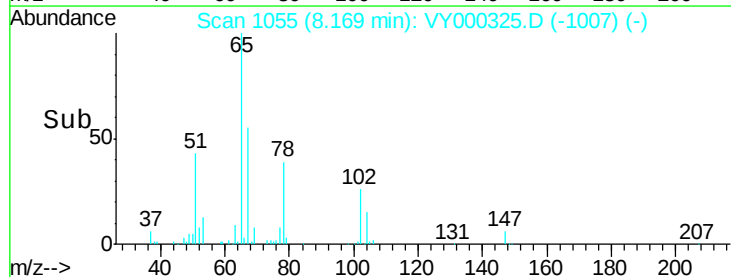
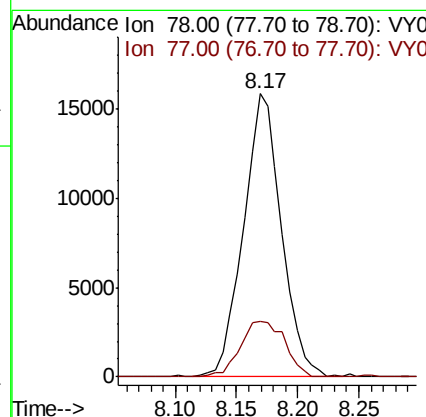
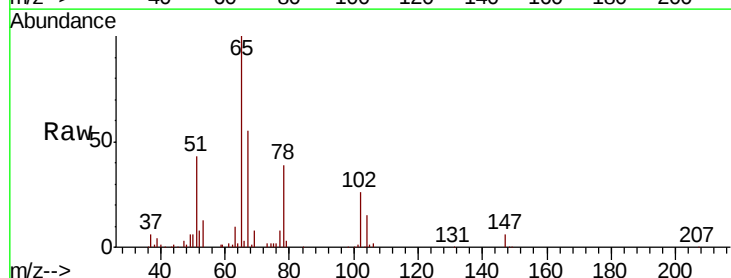
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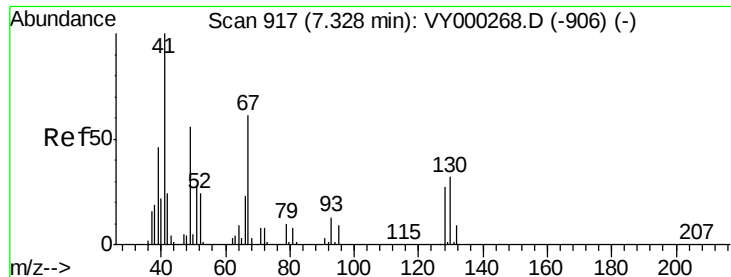
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#40
Benzene
Concen: 2.566 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.5	18.8	28.2





#41

Methacrylonitrile

Concen: 2.643 ug/l

RT: 7.32 min Scan# 916

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 41 Resp: 3428

Ion Ratio Lower Upper

41 100

39 73.4 110.2 165.2#

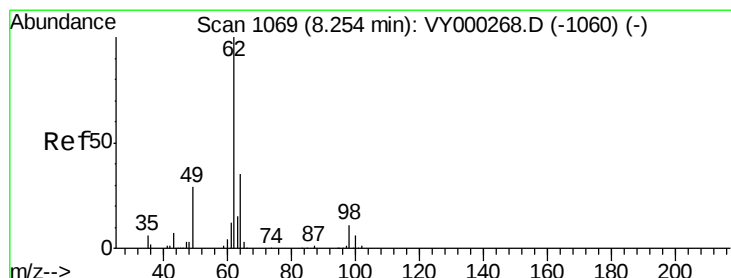
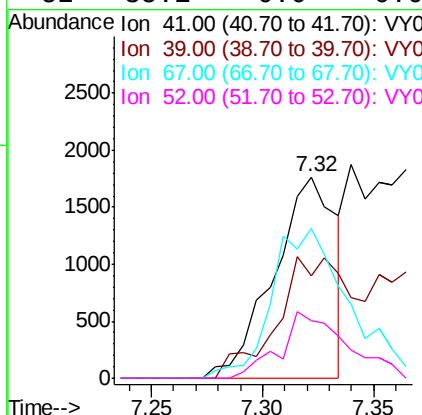
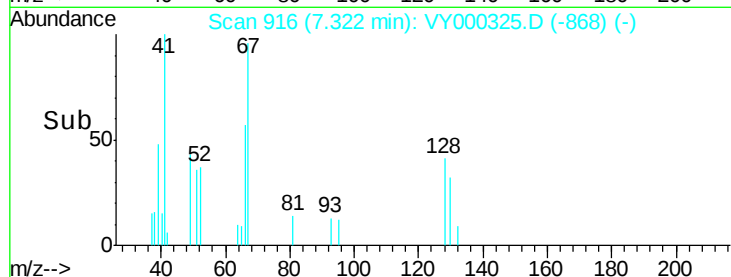
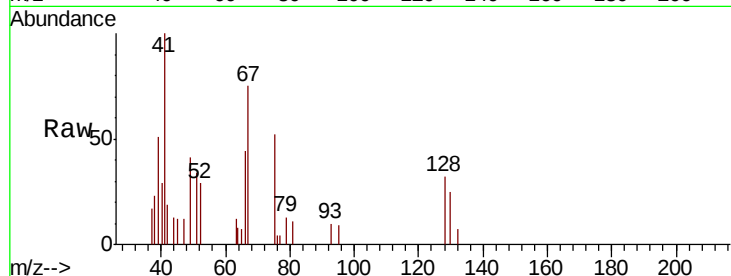
67 91.4 0.0 0.0#

52 35.1 0.0 0.0#

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#42

1,2-Dichloroethane

Concen: 2.835 ug/l

RT: 8.25 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VY000325.D

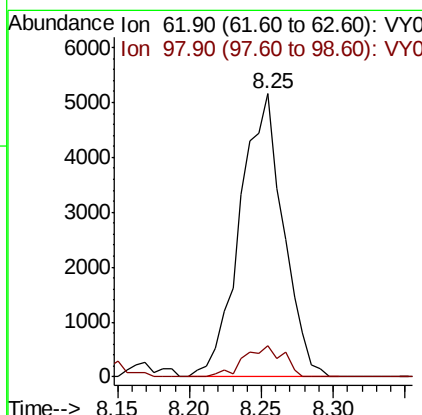
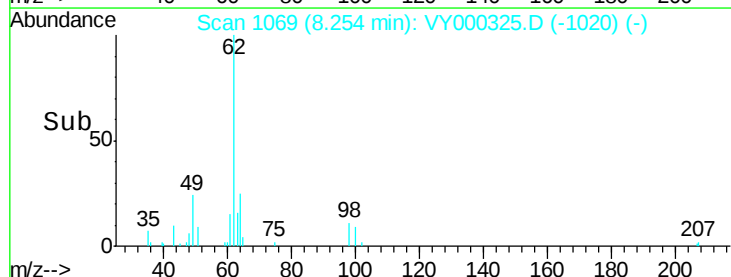
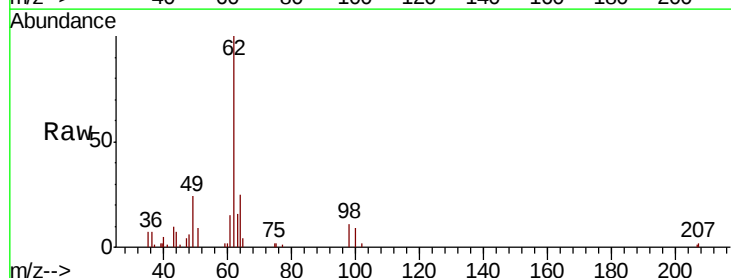
Acq: 16 Oct 2019 13:26

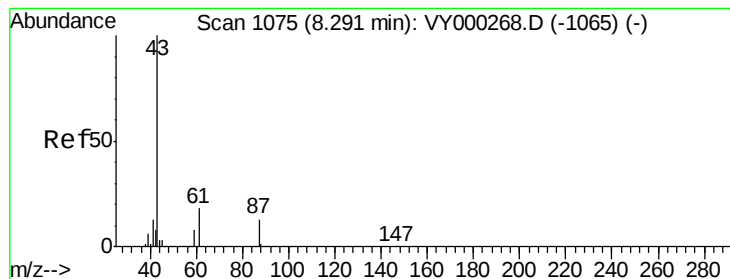
Tgt Ion: 62 Resp: 10770

Ion Ratio Lower Upper

62 100

98 9.9 0.0 20.6





#43

Isopropyl Acetate

Concen: 2.433 ug/l

RT: 8.28 min Scan# 1074

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

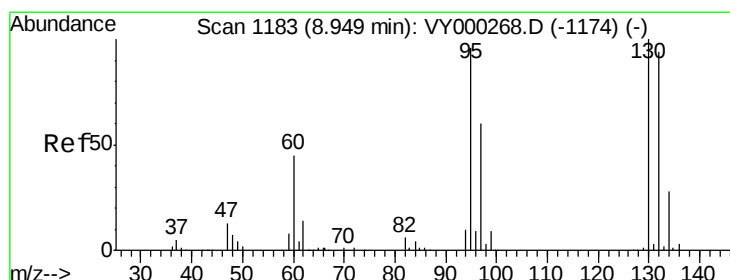
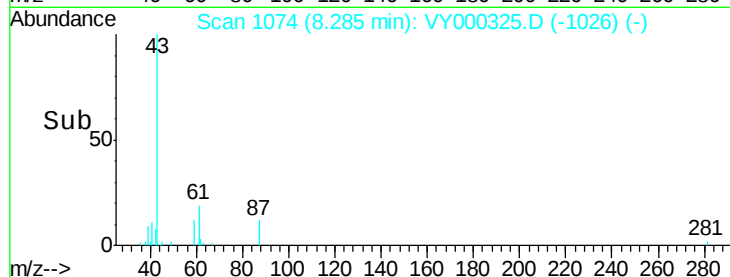
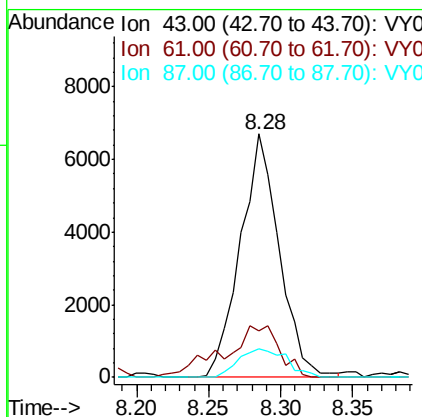
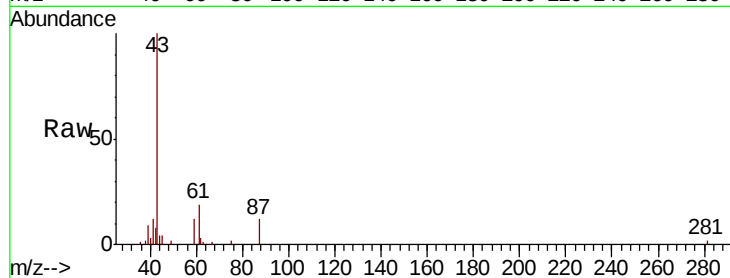
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	43	Resp:	12603
Ion	Ratio	Lower	Upper
43	100		
61	30.6	22.3	33.5
87	14.4	10.9	16.3

Manual Integrations
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#44

Trichloroethene

Concen: 2.459 ug/l

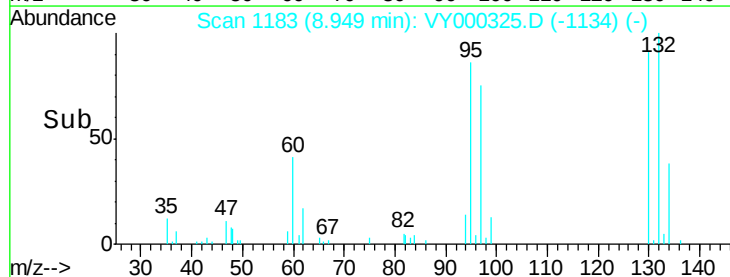
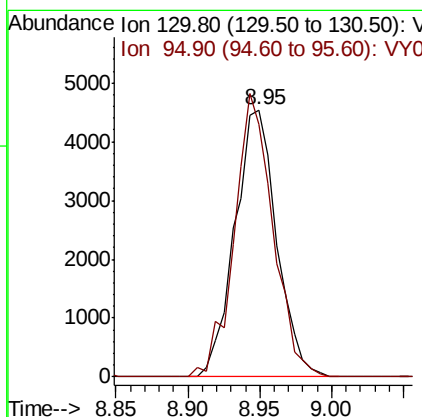
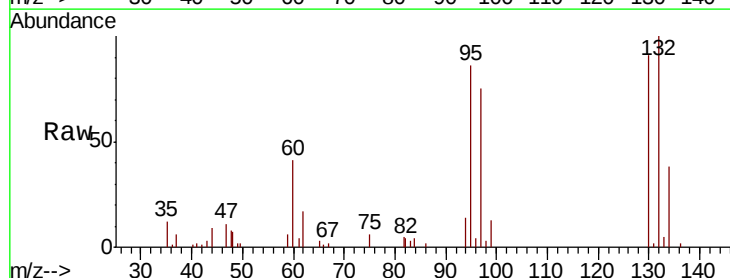
RT: 8.95 min Scan# 1183

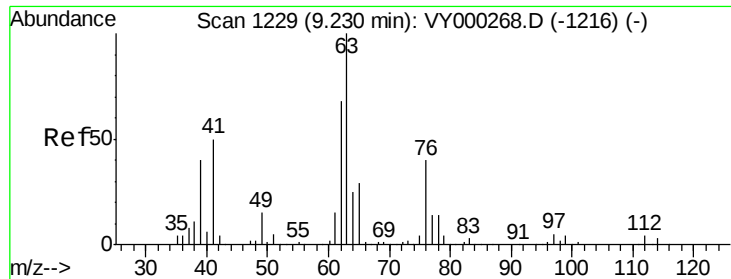
Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Tgt Ion:	130	Resp:	9174
Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	191.4





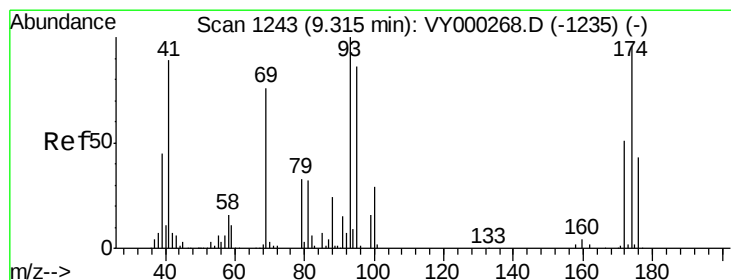
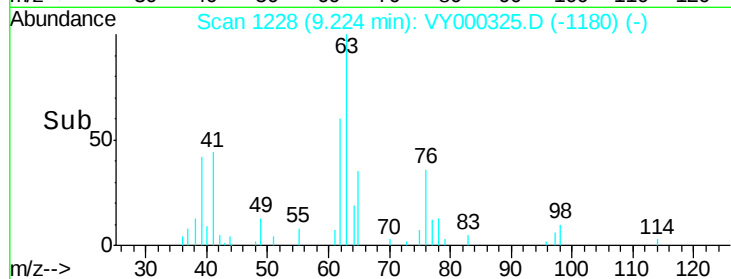
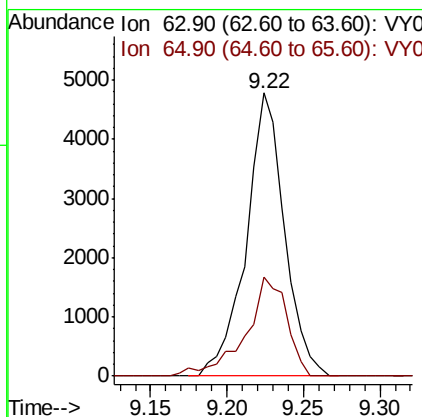
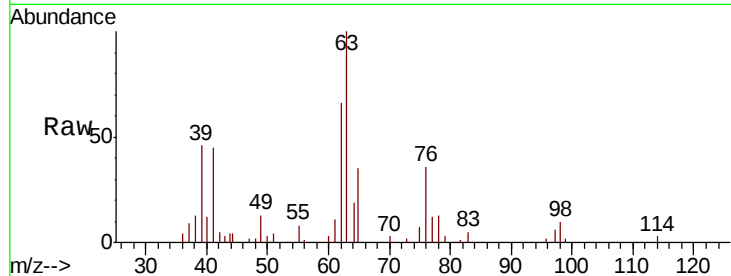
#45
 1,2-Dichloropropane
 Concen: 2.548 ug/l
 RT: 9.22 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 63 Resp: 8314
 Ion Ratio Lower Upper
 63 100
 65 35.1 23.2 34.8#

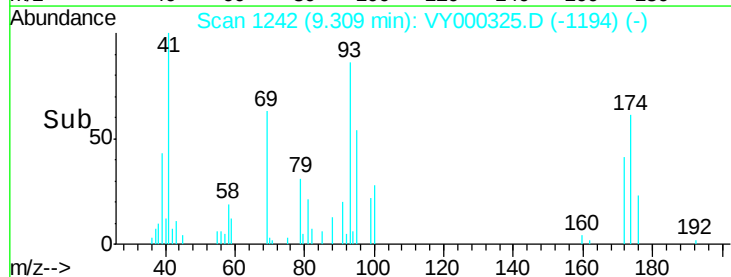
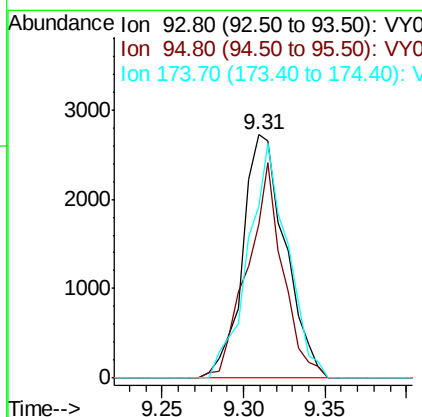
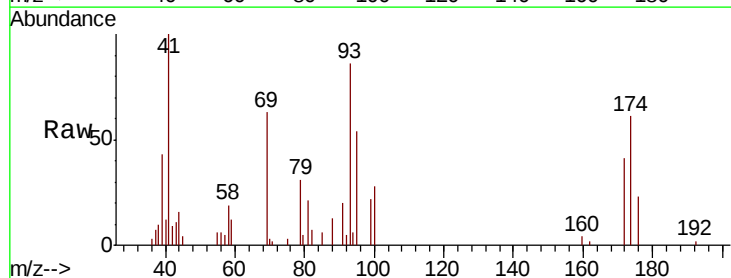
Manual Integrations
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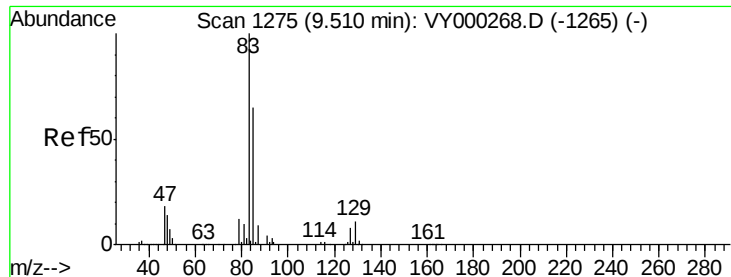
MMDadoda
 10/18/2019 12:50:38 AM



#46
 Dibromomethane
 Concen: 2.704 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion: 93 Resp: 4932
 Ion Ratio Lower Upper
 93 100
 95 73.8 68.2 102.2
 174 89.4 79.8 119.6





#47

Bromodichloromethane

Concen: 2.412 ug/l

RT: 9.50 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

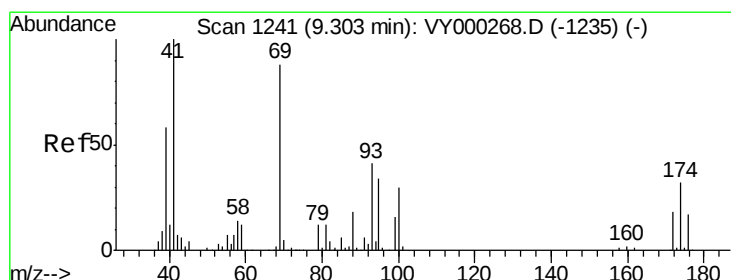
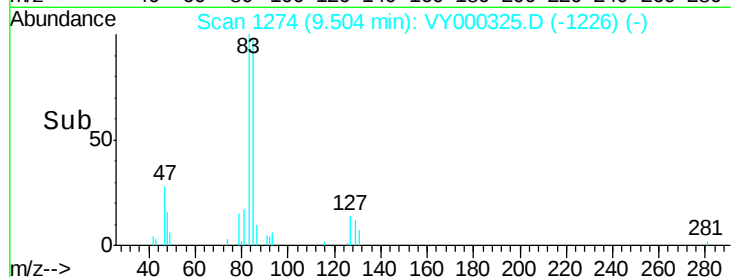
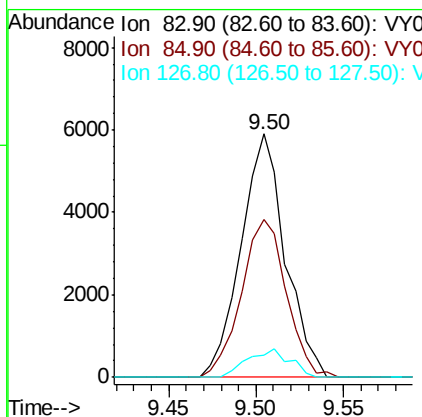
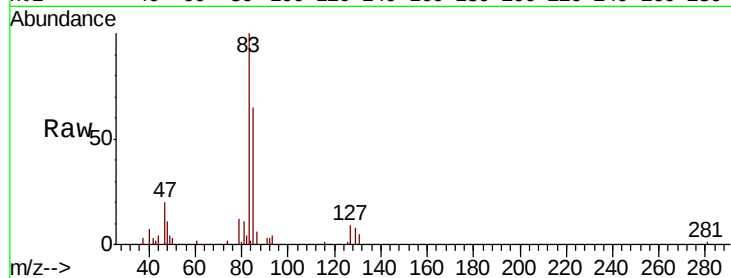
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	83	Resp:	10371
Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.2	78.2
127	9.2	6.3	9.5

Manual Integrations
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MMDadoda
10/18/2019 12:50:38 AM



#48

Methyl methacrylate

Concen: 2.761 ug/l

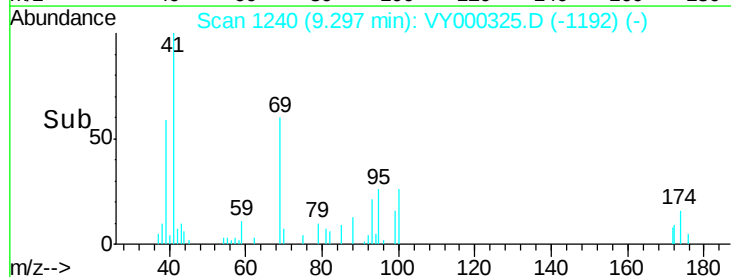
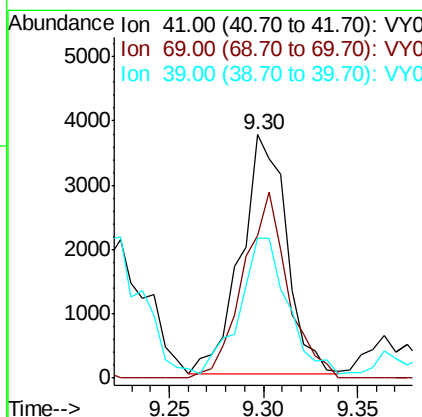
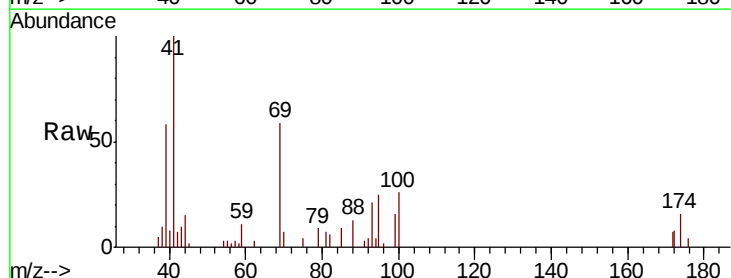
RT: 9.30 min Scan# 1240

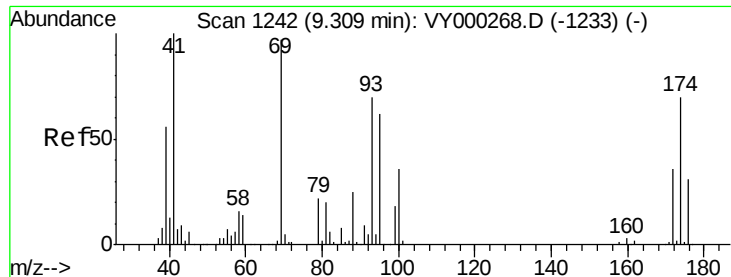
Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Tgt Ion:	41	Resp:	6269
Ion	Ratio	Lower	Upper
41	100		
69	75.6	70.0	105.0
39	64.9	47.7	71.5





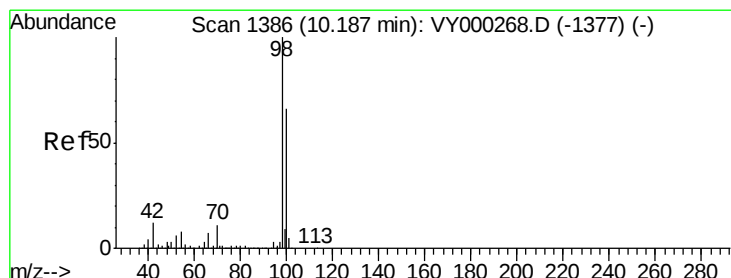
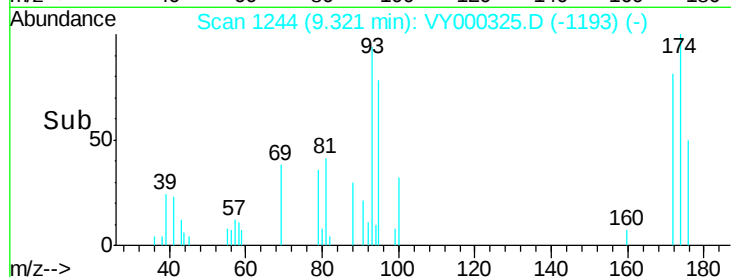
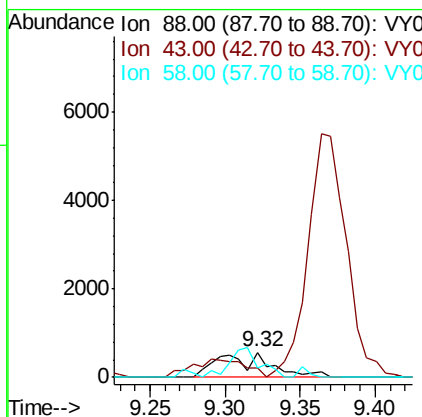
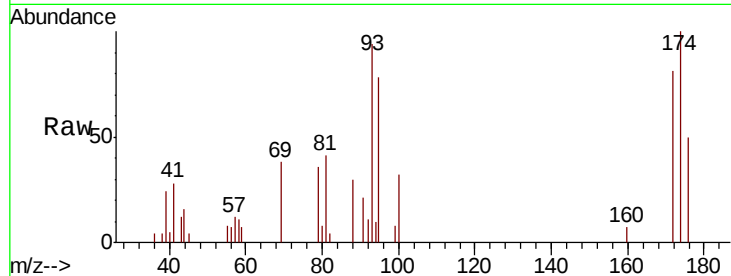
#49
1,4-Dioxane
Concen: 49.063 ug/l m
RT: 9.32 min Scan# 1244
Delta R.T. 0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	25.6	38.4#
58	68.2	54.6	81.8

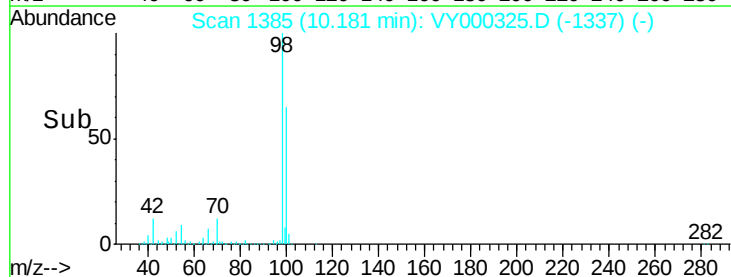
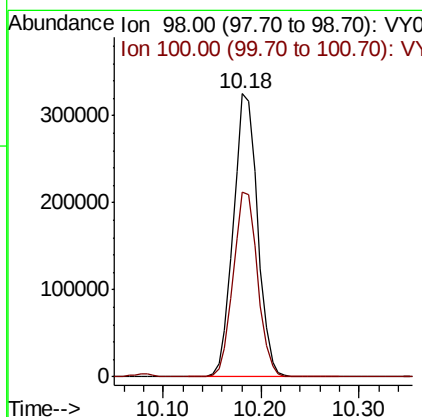
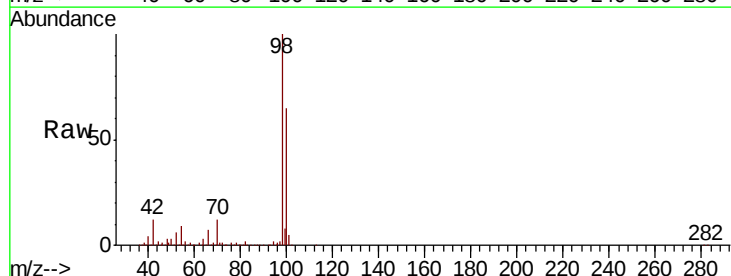
Manual Integrations
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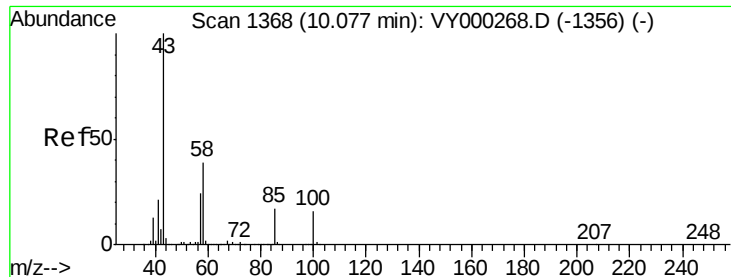
MMDadoda
10/18/2019 12:50:38 AM



#50
Toluene-d8
Concen: 51.293 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 13.279 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 43 Resp: 35482

Ion Ratio Lower Upper

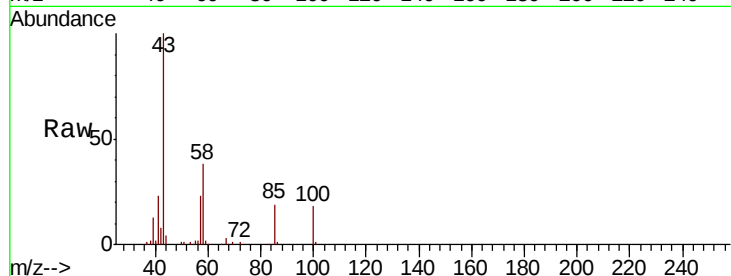
43 100

58 37.9 31.0 46.6

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MMDadoda

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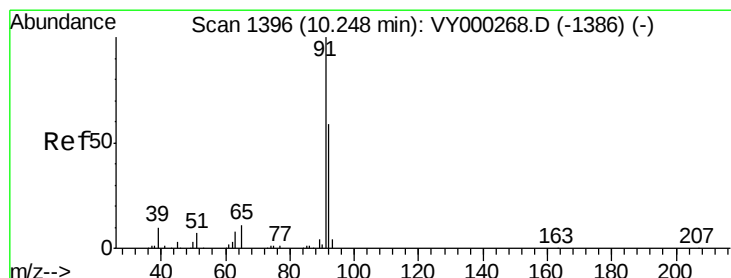
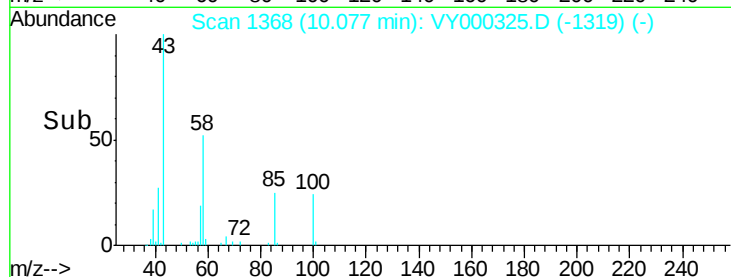
Abundance Ion 43.00 (42.70 to 43.70): VY000325.D (-1319) (-)

Ion 58.00 (57.70 to 58.70): VY000325.D (-1319) (-)

10.08

10.10

Time-->



#52

Toluene

Concen: 2.591 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.00 min

Lab File: VY000325.D

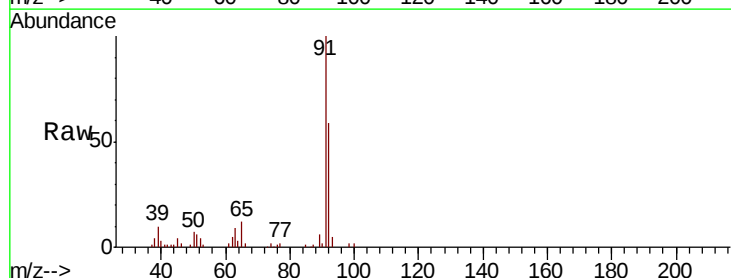
Acq: 16 Oct 2019 13:26

Tgt Ion: 92 Resp: 21872

Ion Ratio Lower Upper

92 100

91 160.5 136.6 205.0



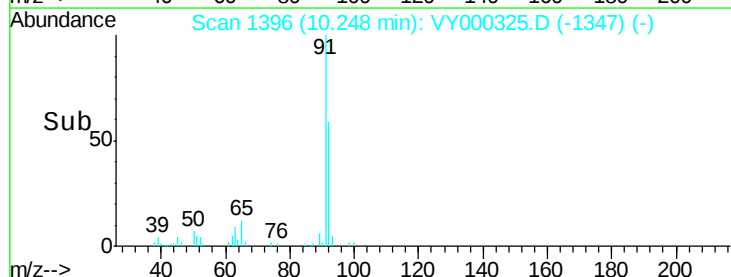
Abundance Ion 92.00 (91.70 to 92.70): VY000325.D (-1347) (-)

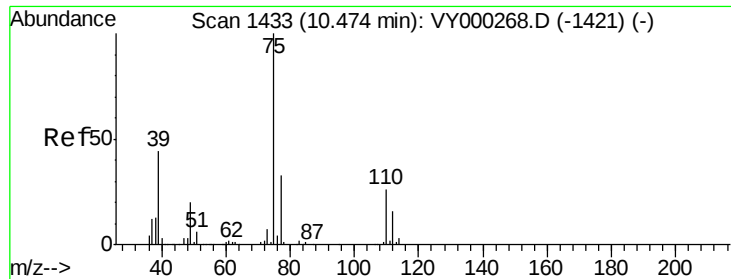
Ion 91.00 (90.70 to 91.70): VY000325.D (-1347) (-)

10.25

10.30

Time-->





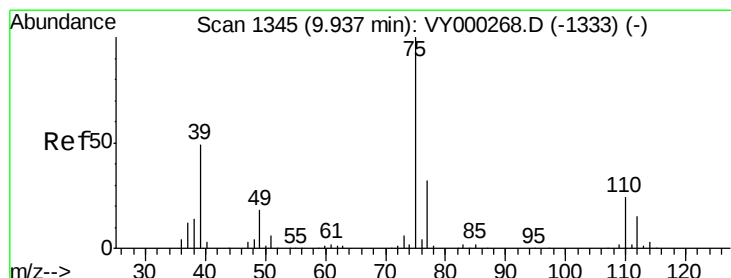
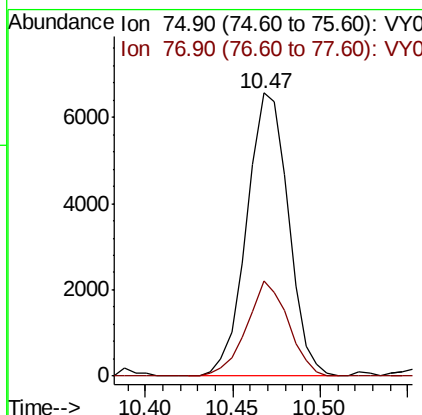
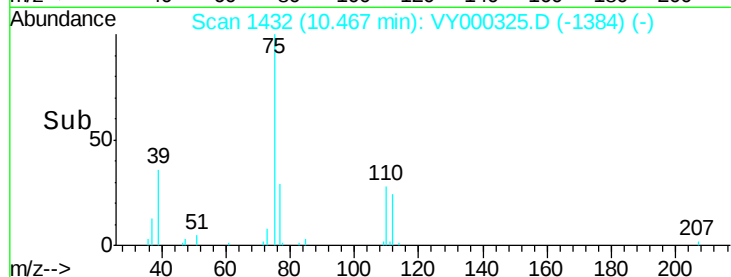
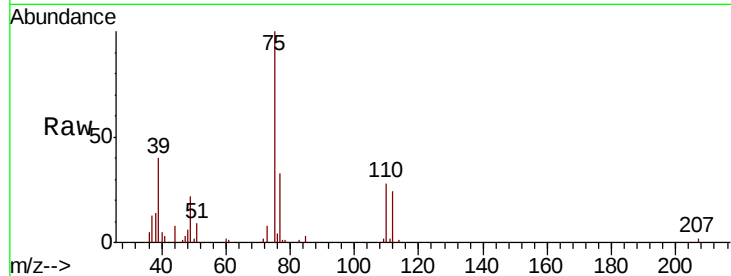
#53
 t-1,3-Dichloropropene
 Concen: 2.365 ug/l
 RT: 10.47 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 75 Resp: 10896
 Ion Ratio Lower Upper
 75 100
 77 33.5 26.0 39.0

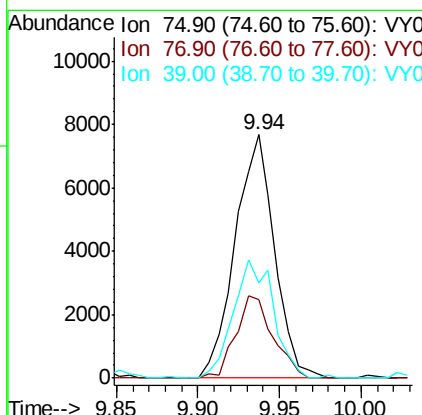
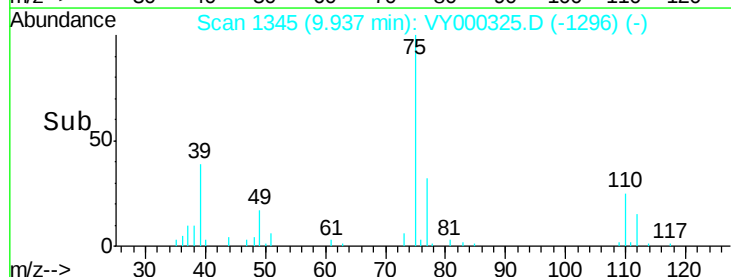
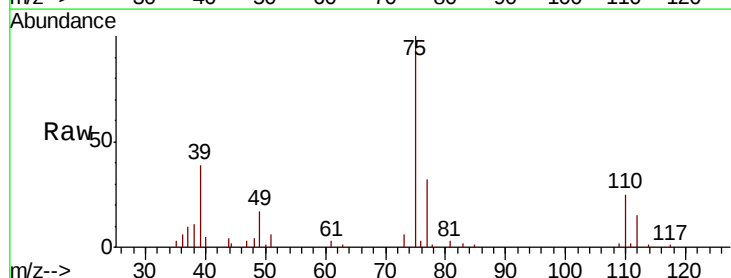
Manual Integrations
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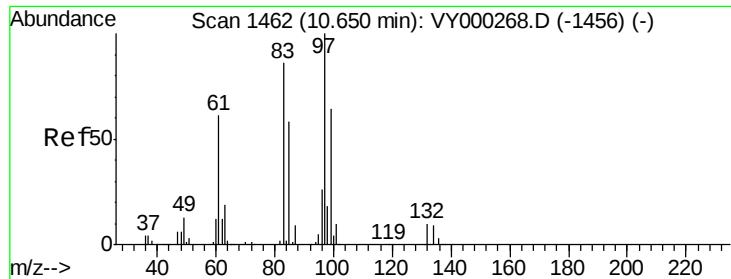
MMDadoda
 10/18/2019 12:50:38 AM



#54
 cis-1,3-Dichloropropene
 Concen: 2.464 ug/l
 RT: 9.94 min Scan# 1345
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion: 75 Resp: 12892
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.0 39.0
 39 39.3 38.8 58.2





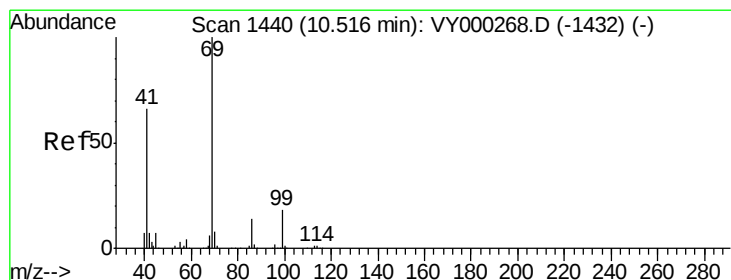
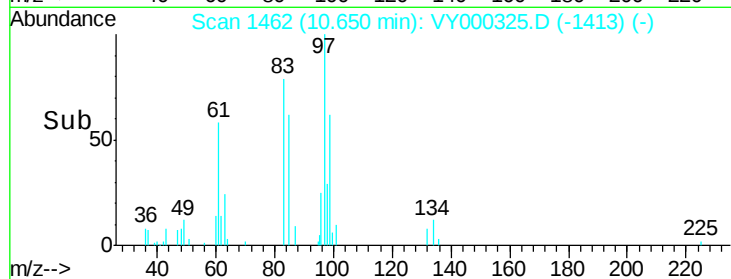
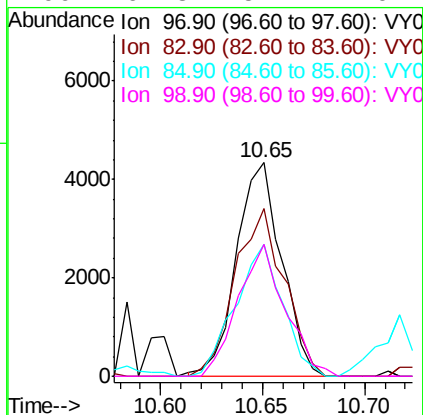
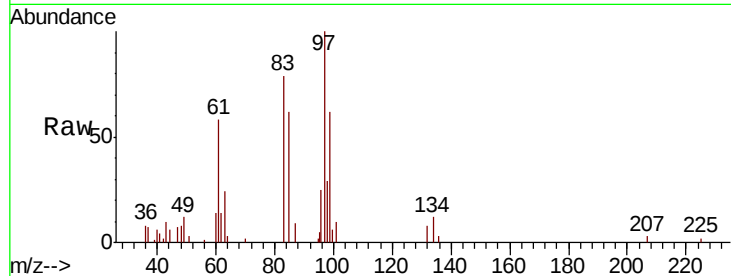
#55
 1,1,2-Trichloroethane
 Concen: 2.514 ug/l
 RT: 10.65 min Scan# 1462
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	97	Resp:	6667
Ion	Ratio	Lower	Upper
97	100		
83	78.7	69.0	103.6
85	61.9	46.2	69.4
99	61.8	51.1	76.7

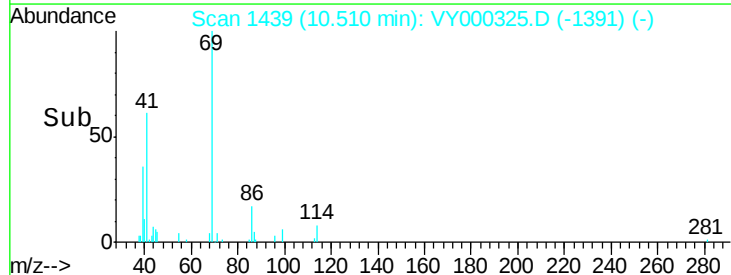
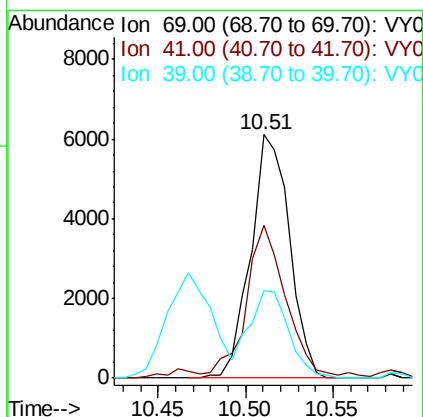
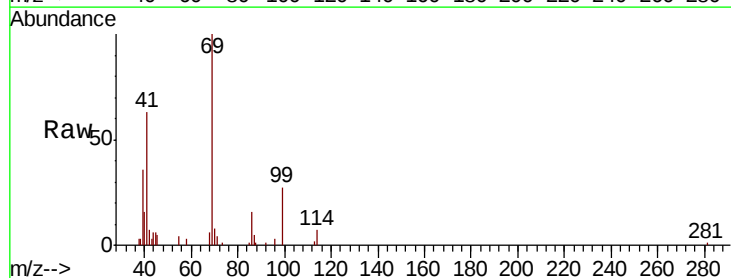
Manual Integrations
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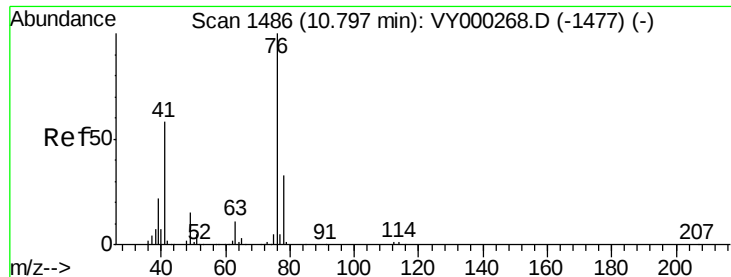
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 2.491 ug/l
 RT: 10.51 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion:	69	Resp:	9417
Ion	Ratio	Lower	Upper
69	100		
41	65.4	52.5	78.7
39	37.0	26.7	40.1





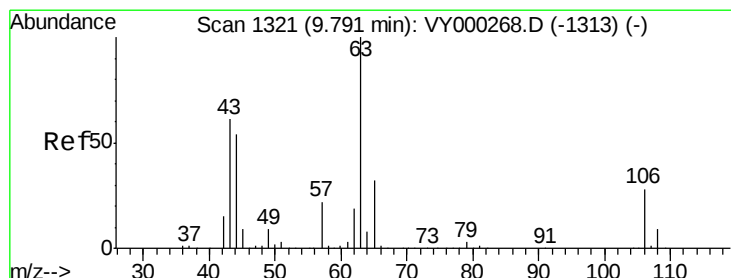
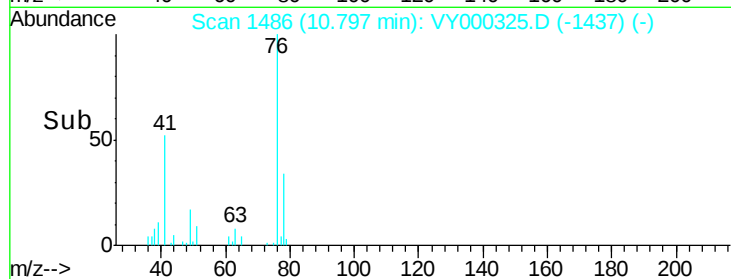
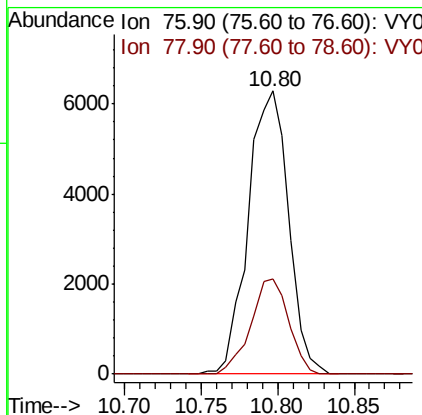
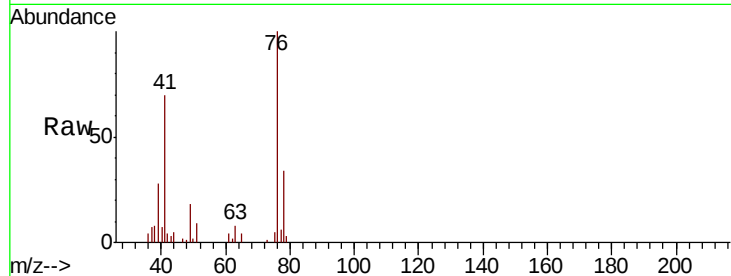
#57
 1,3-Dichloropropane
 Concen: 2.530 ug/l
 RT: 10.80 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 76 Resp: 11525
 Ion Ratio Lower Upper
 76 100
 78 31.6 26.2 39.2

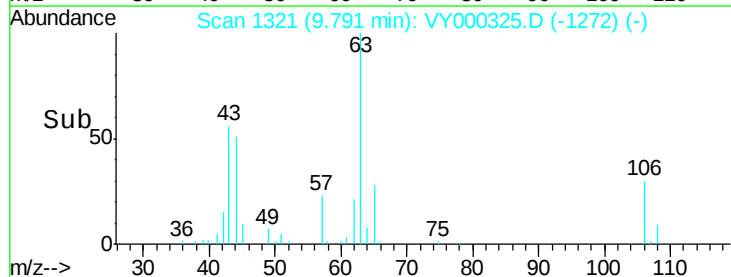
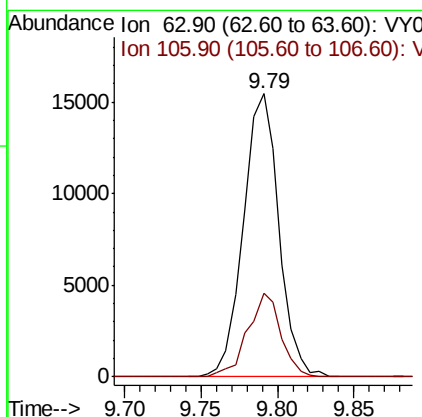
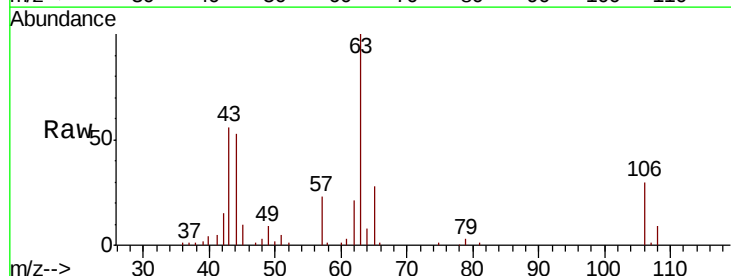
Manual Integrations
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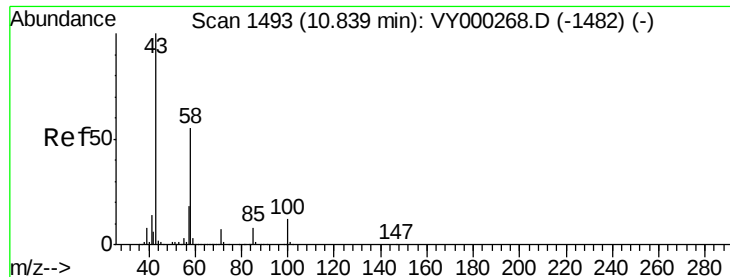
MMDadoda
 10/18/2019 12:50:38 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 16.509 ug/l
 RT: 9.79 min Scan# 1321
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion: 63 Resp: 24895
 Ion Ratio Lower Upper
 63 100
 106 27.7 23.0 34.4





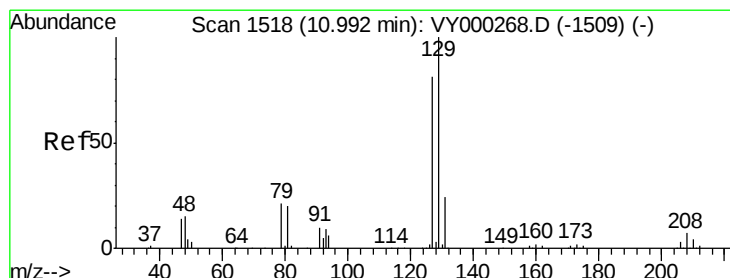
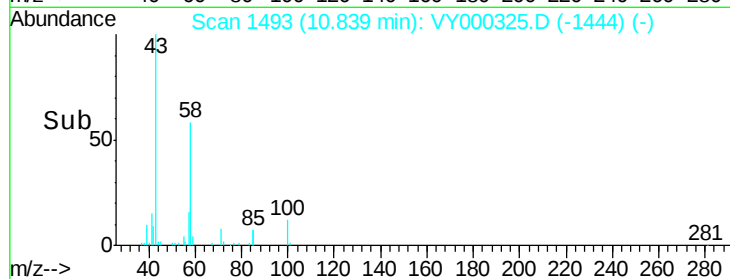
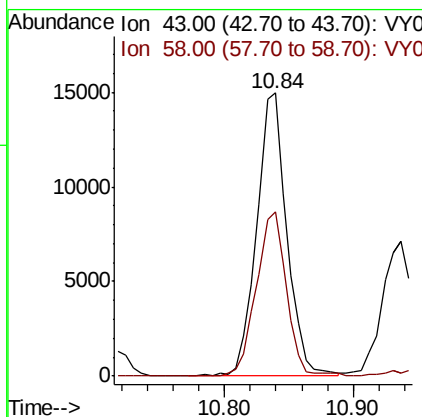
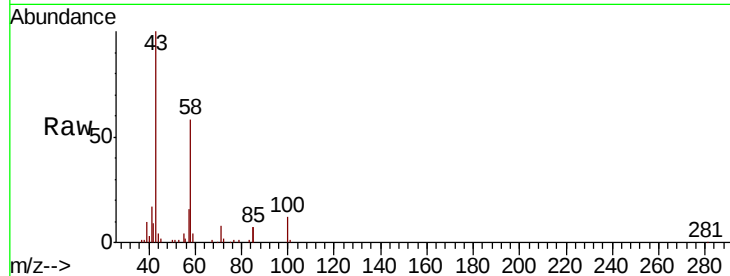
#59
2-Hexanone
Concen: 12.879 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 43 Resp: 24156
Ion Ratio Lower Upper
43 100
58 58.0 27.7 83.1

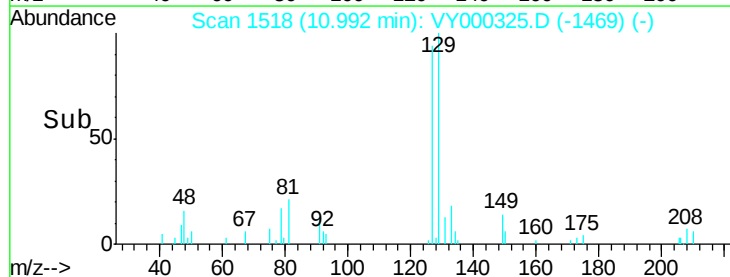
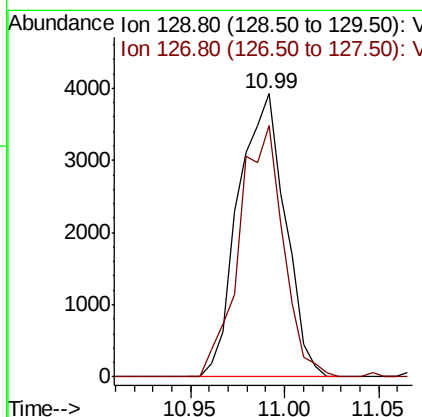
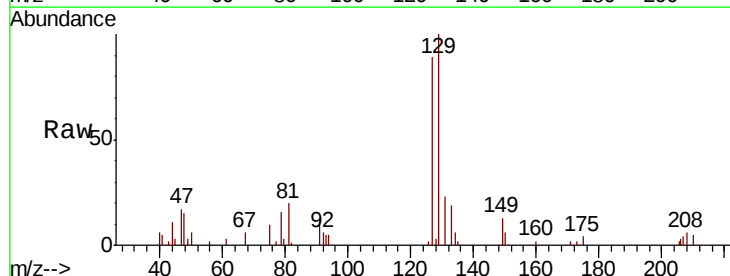
Manual Integrations
APPROVED

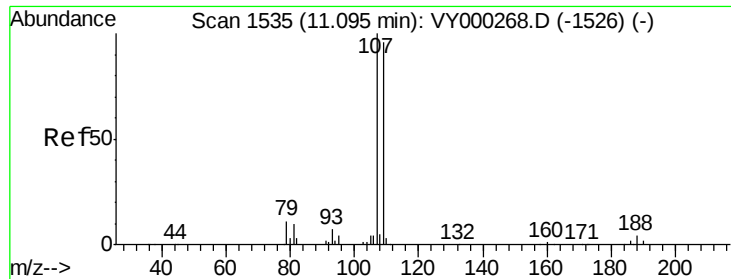
MMDadoda
10/18/2019 12:50:38 AM



#60
Dibromochloromethane
Concen: 2.298 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion: 129 Resp: 6756
Ion Ratio Lower Upper
129 100
127 83.8 39.9 119.7





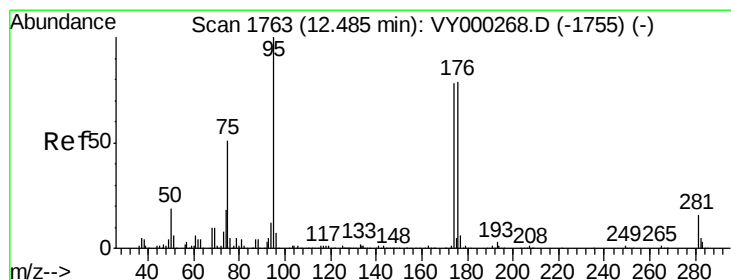
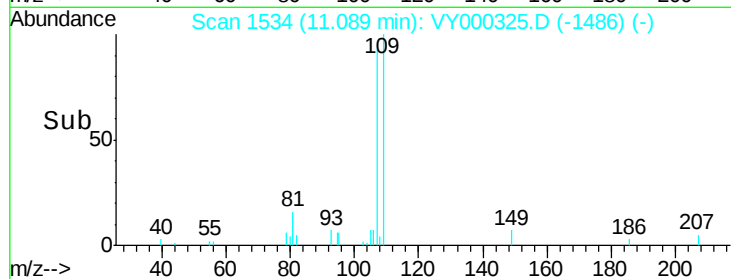
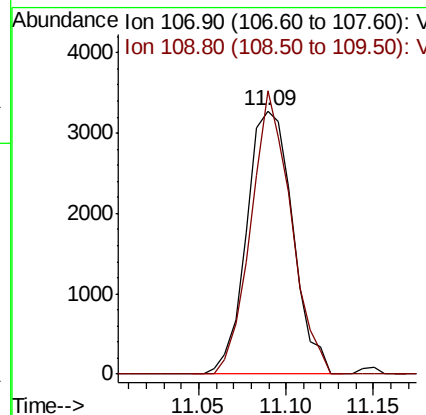
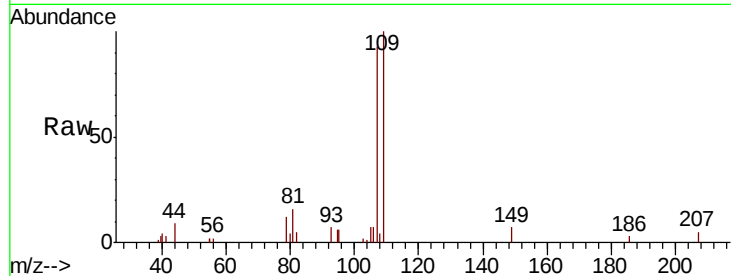
#61
 1,2-Dibromoethane
 Concen: 2.359 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.1	112.7

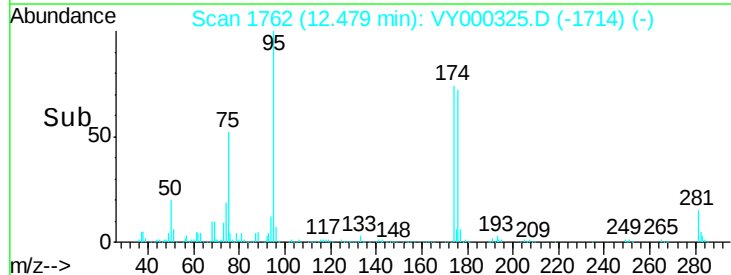
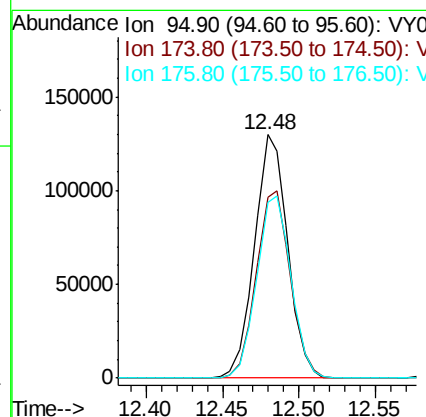
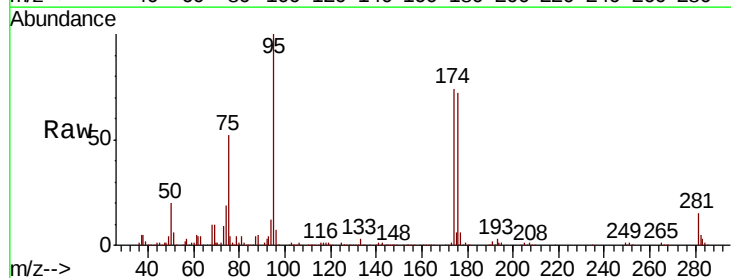
Manual Integrations
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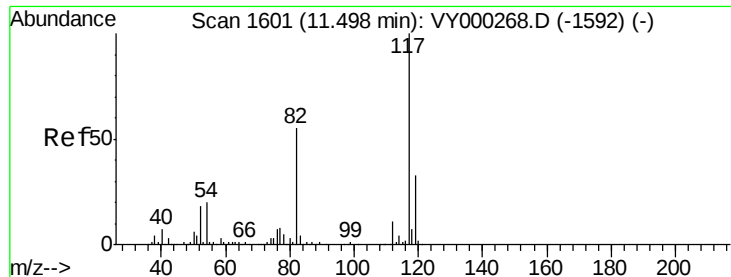
MMDadoda
 10/18/2019 12:50:38 AM



#62
 4-Bromofluorobenzene
 Concen: 47.261 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	79.0	0.0	159.6
176	77.3	0.0	153.8





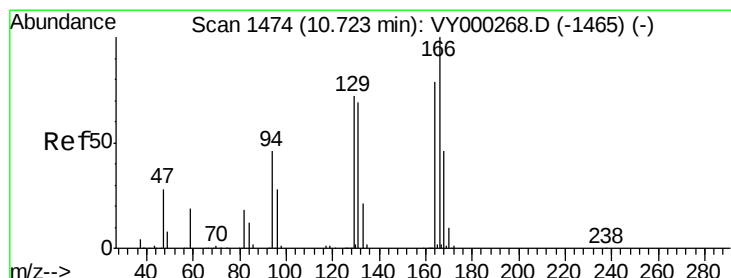
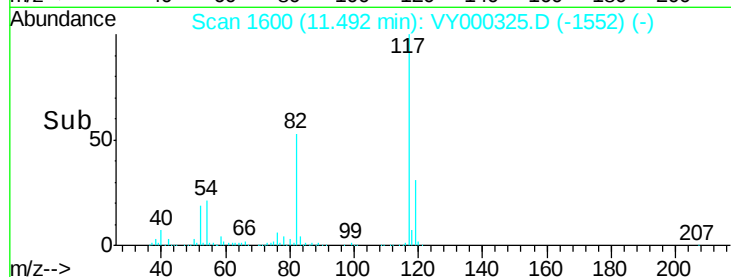
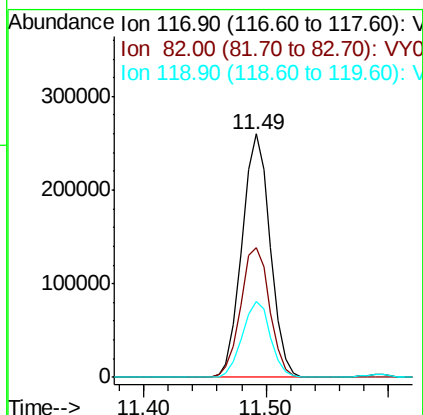
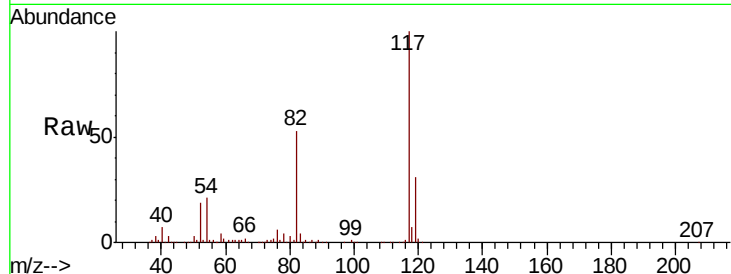
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	43.7	65.5
119	31.3	26.6	39.8

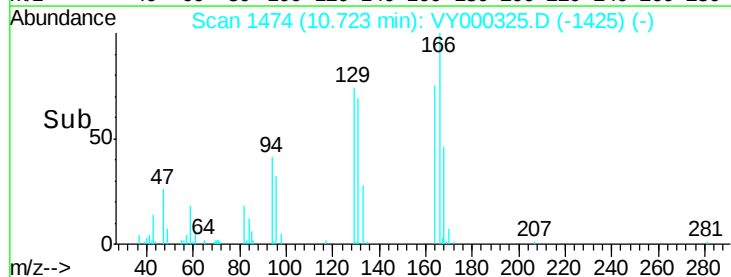
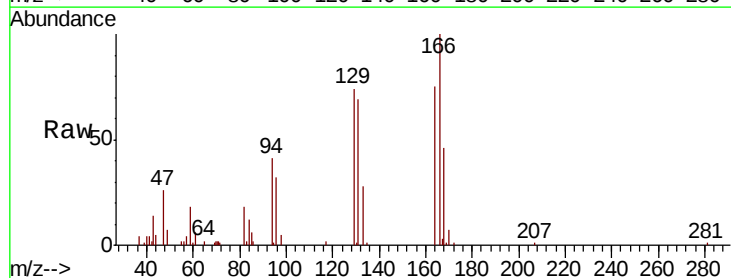
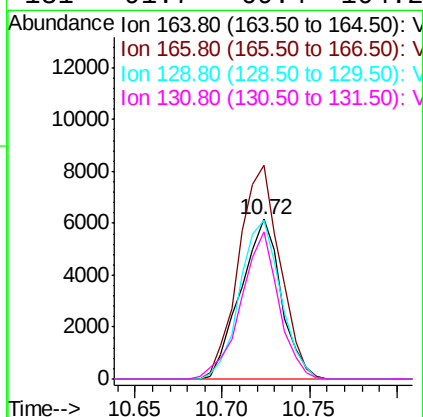
Manual Integrations
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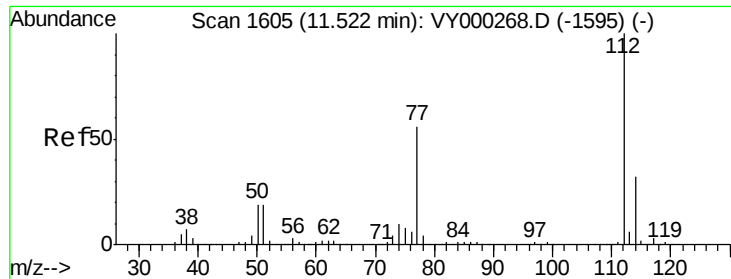
MMDadoda
10/18/2019 12:50:38 AM



#64
Tetrachloroethene
Concen: 2.508 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.6	100.6	151.0
129	99.2	72.8	109.2
131	91.7	69.4	104.2





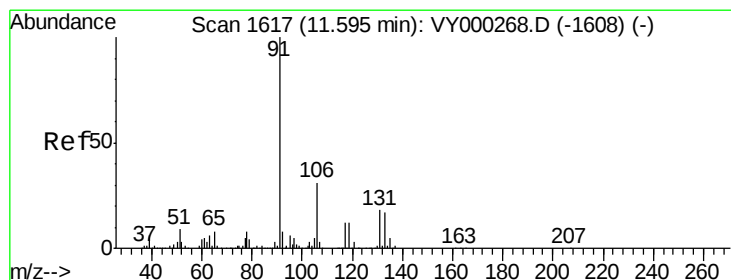
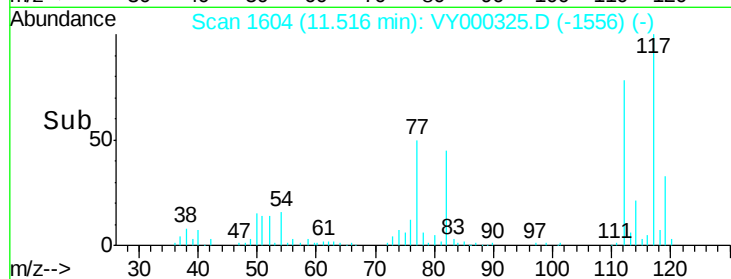
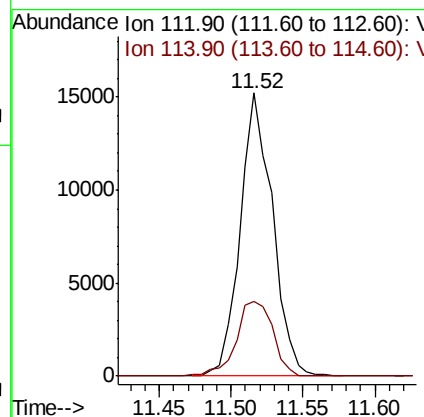
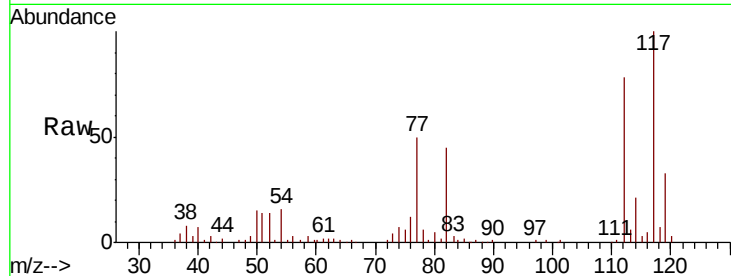
#65
Chlorobenzene
Concen: 2.700 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:112 Resp: 23685
Ion Ratio Lower Upper
112 100
114 26.5 25.7 38.5

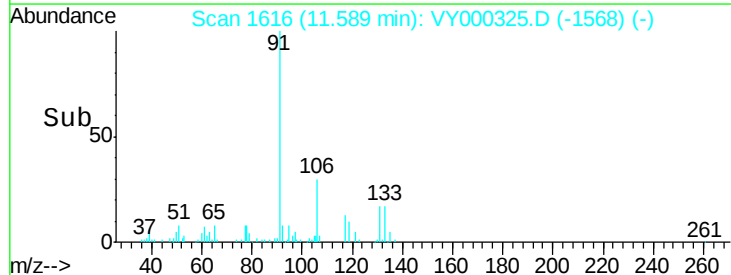
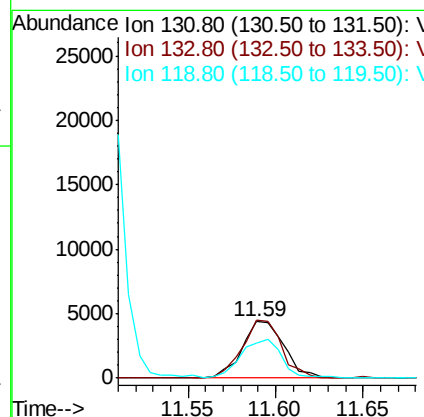
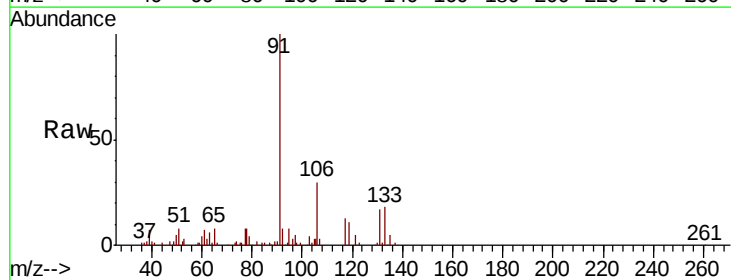
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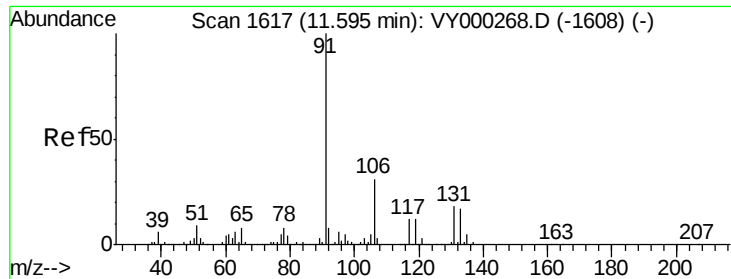
MMDadoda
10/18/2019 12:50:38 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 2.383 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion:131 Resp: 7344
Ion Ratio Lower Upper
131 100
133 97.5 47.2 141.6
119 67.3 32.6 98.0





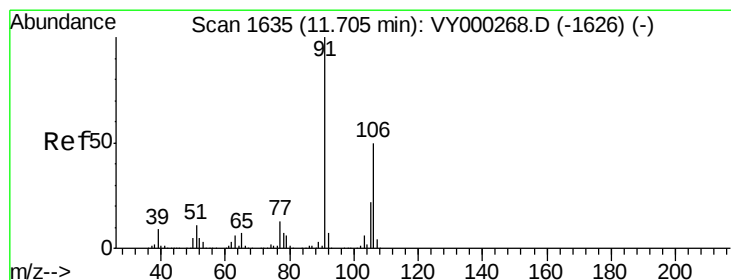
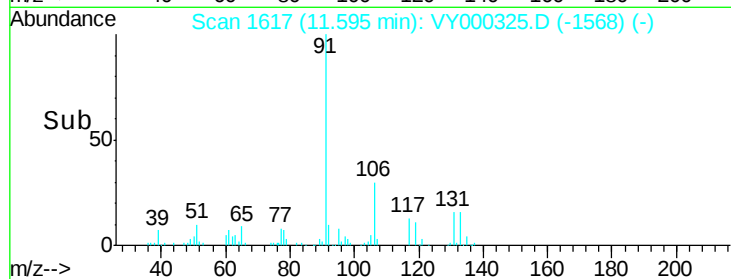
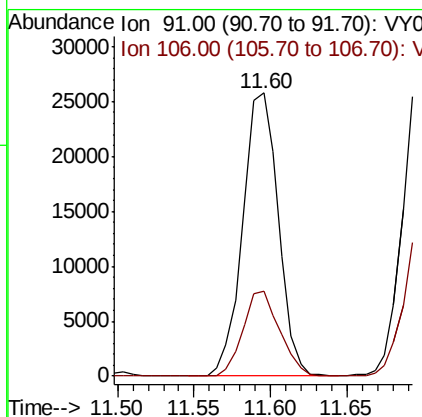
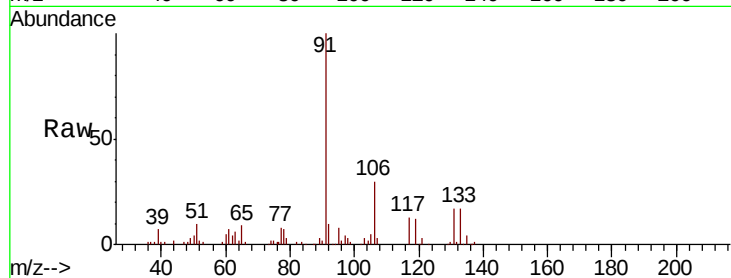
#67
Ethyl Benzene
Concen: 2.566 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 91 Resp: 41725
Ion Ratio Lower Upper
91 100
106 30.1 25.0 37.6

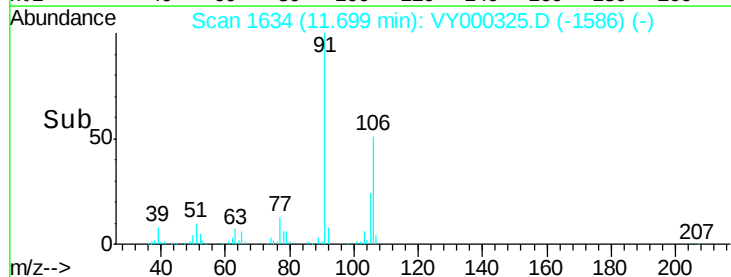
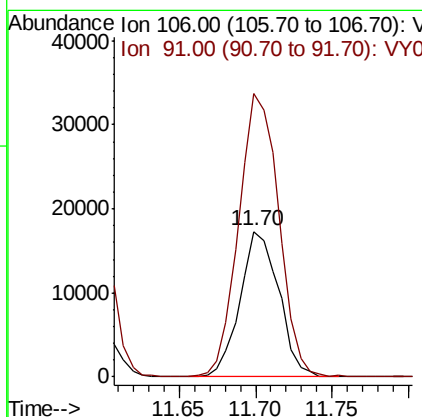
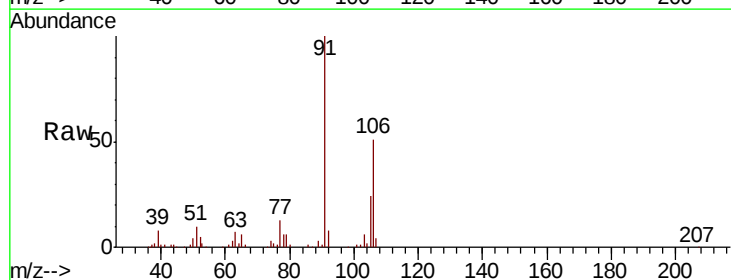
Manual Integrations
APPROVED

MMDadoda
10/18/2019 12:50:38 AM



#68
m/p-Xylenes
Concen: 4.911 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion: 106 Resp: 30533
Ion Ratio Lower Upper
106 100
91 201.9 157.5 236.3





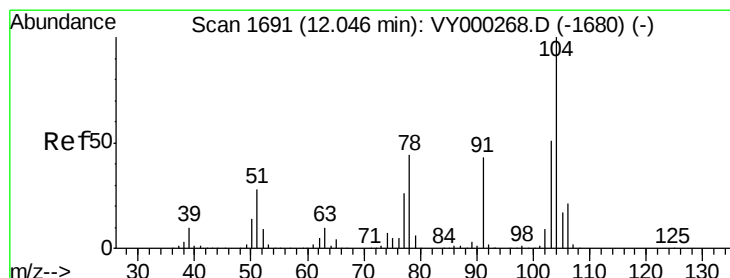
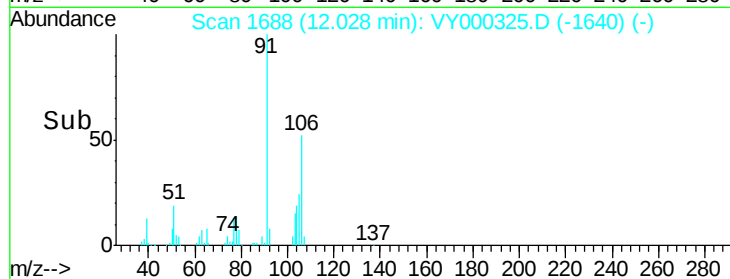
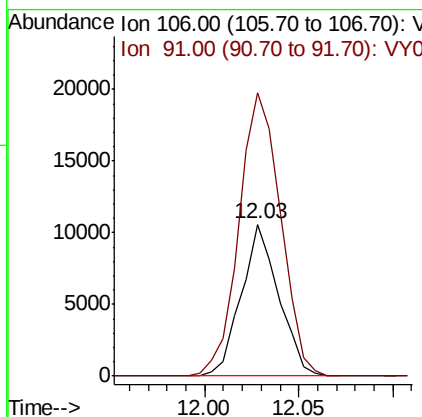
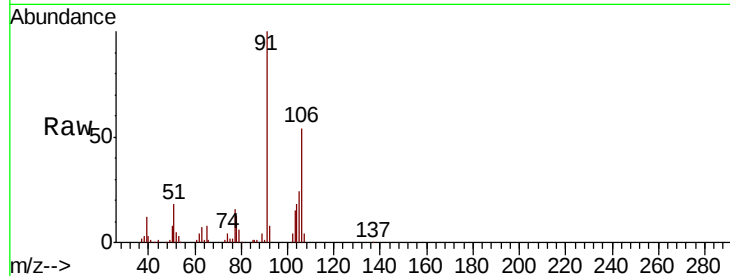
#69
o-Xylene
Concen: 2.467 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:106 Resp: 14633
Ion Ratio Lower Upper
106 100
91 206.2 104.7 313.9

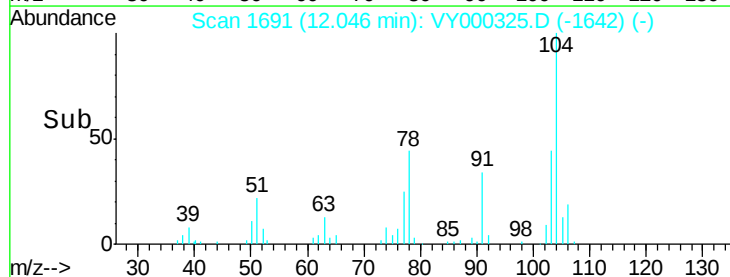
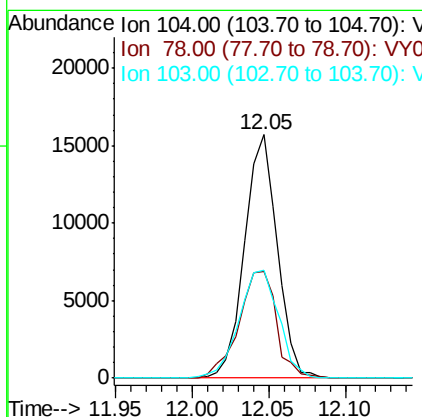
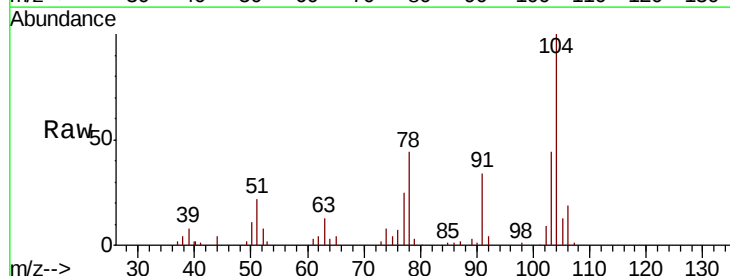
Manual Integrations
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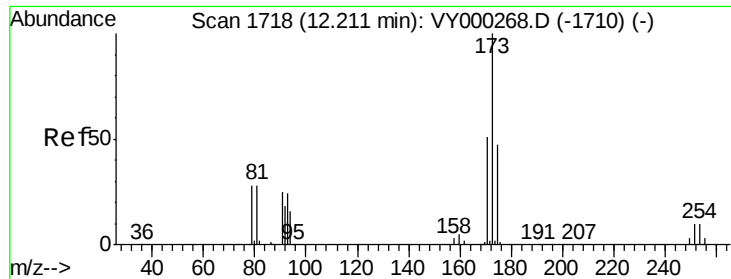
MMDadoda
10/18/2019 12:50:38 AM



#70
Styrene
Concen: 2.337 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion:104 Resp: 23375
Ion Ratio Lower Upper
104 100
78 50.6 39.0 58.6
103 53.8 43.1 64.7





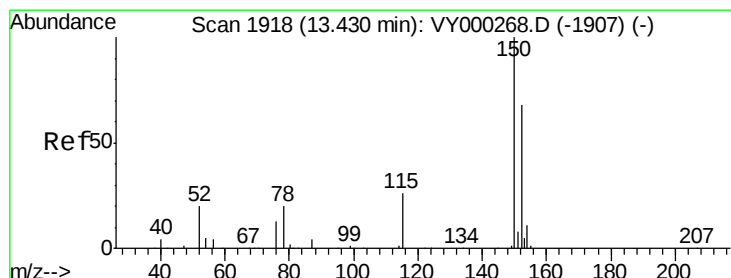
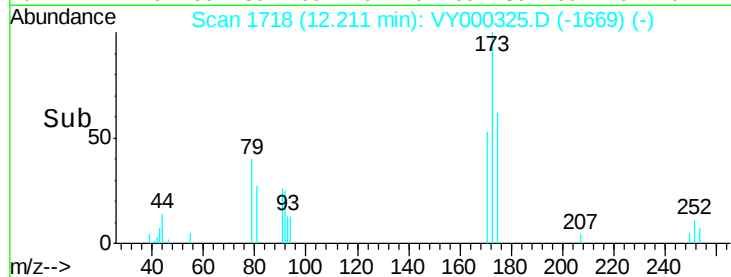
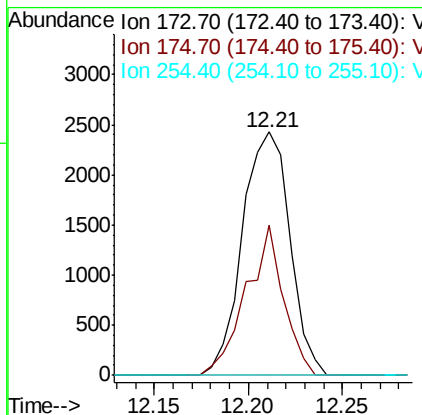
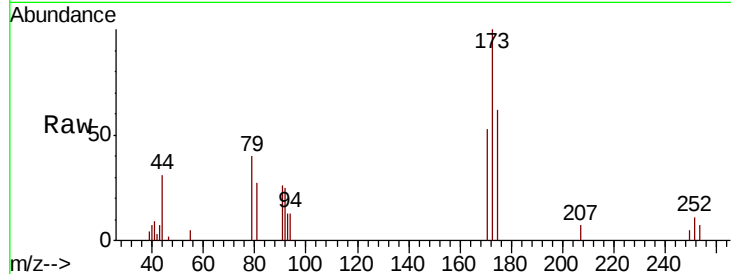
#71
Bromoform
Concen: 2.384 ug/l
RT: 12.21 min Scan# 1718
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.6	73.6
254	0.0	0.1	0.1#

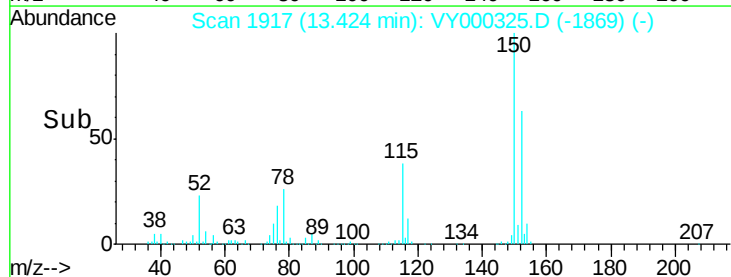
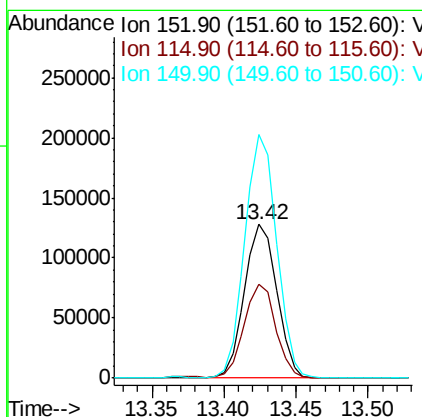
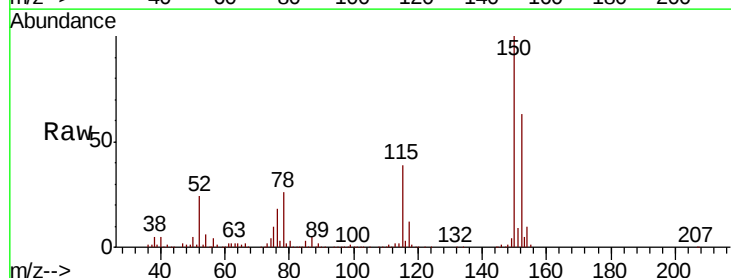
Manual Integrations
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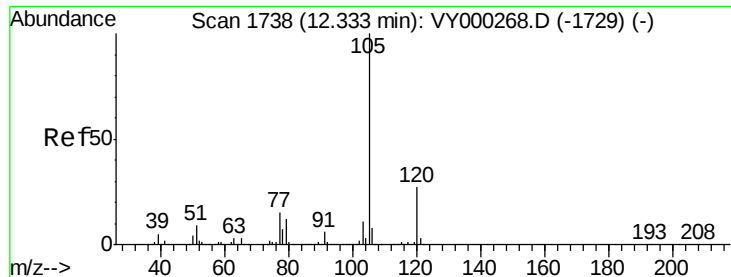
MMDadoda
10/18/2019 12:50:38 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.2	29.3	88.0
150	156.5	0.0	348.4





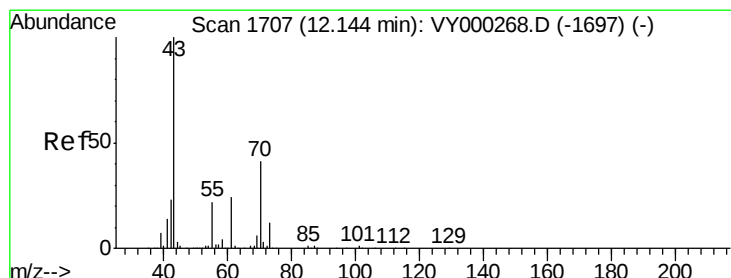
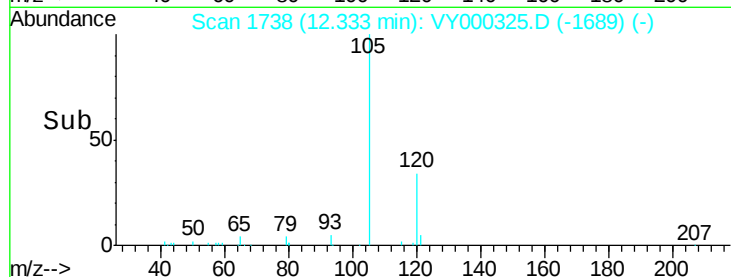
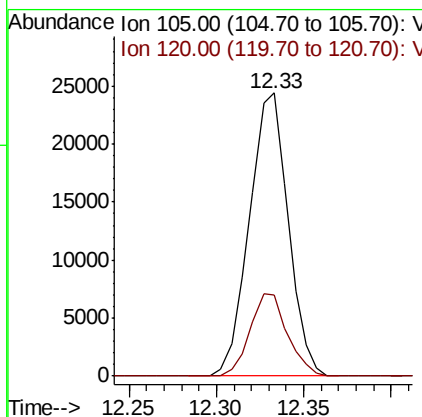
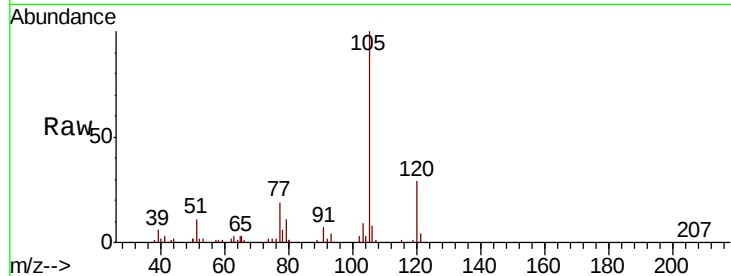
#73
Isopropylbenzene
Concen: 2.429 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	28.1	13.4	40.2

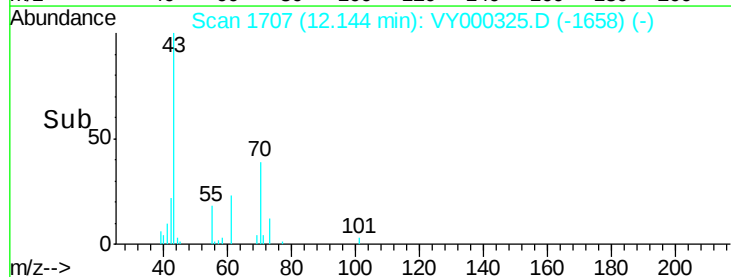
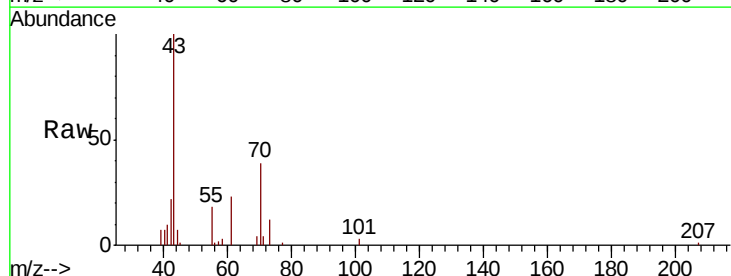
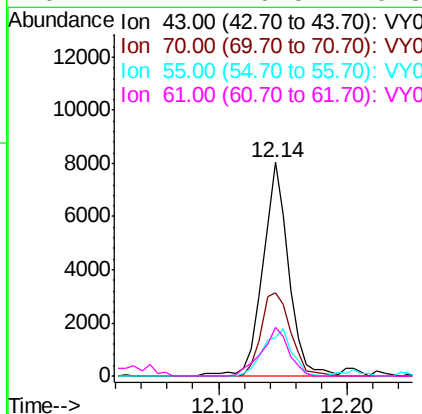
Manual Integrations
APPROVED

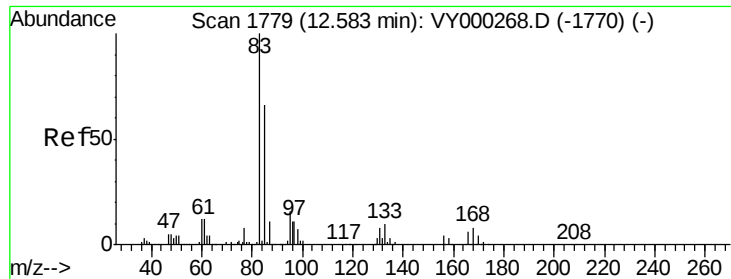
MMDadoda
10/18/2019 12:50:38 AM



#74
N-ethyl acetate
Concen: 2.918 ug/l
RT: 12.14 min Scan# 1707
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
43	100		
70	44.8	32.9	49.3
55	24.2	17.8	26.6
61	24.1	19.5	29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 2.463 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

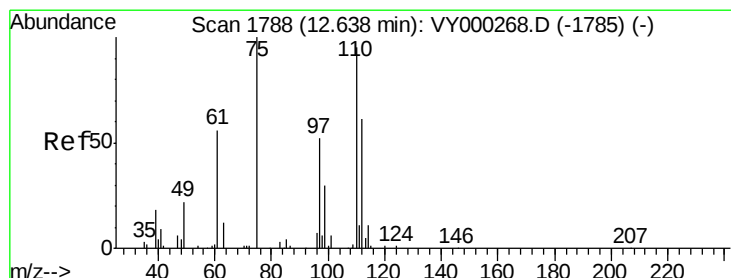
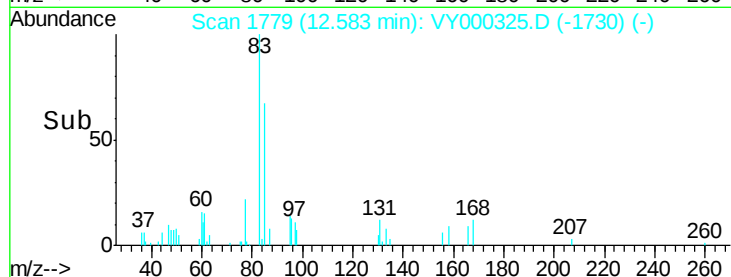
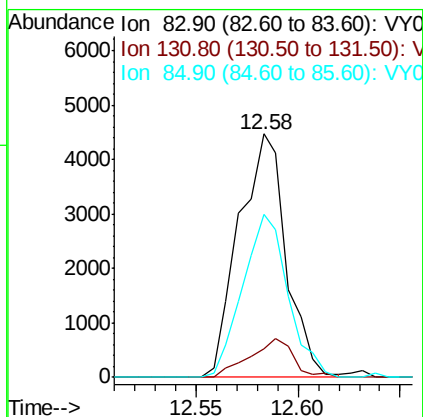
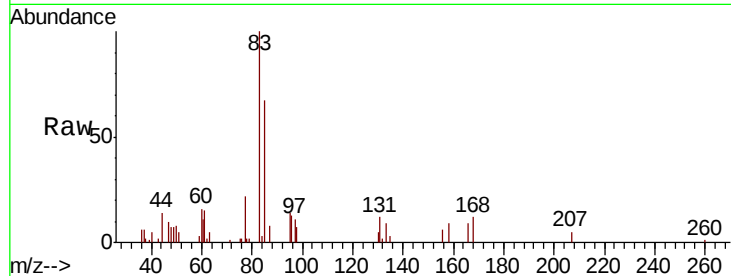
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	83	Resp:	7176
Ion Ratio	Lower	Upper	
83	100		
131	14.7	5.3	16.1
85	64.6	32.9	98.7

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#76

1,2,3-Trichloropropane

Concen: 3.170 ug/l m

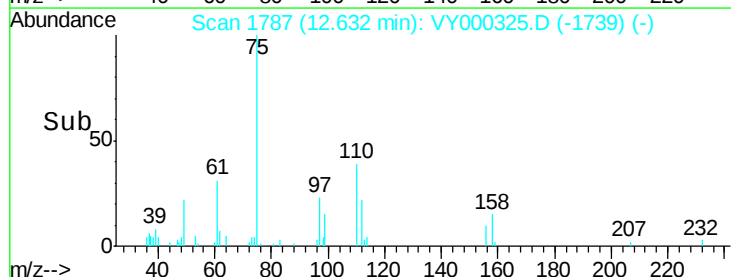
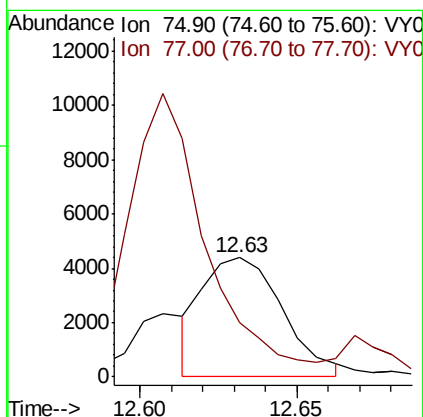
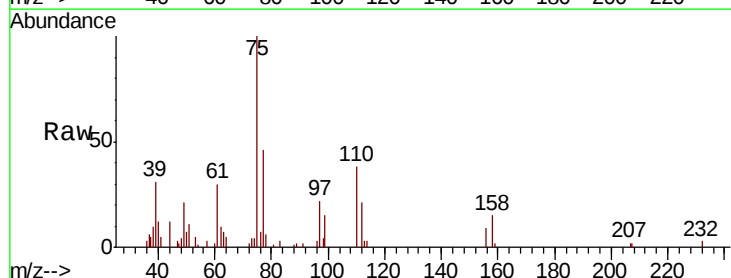
RT: 12.63 min Scan# 1787

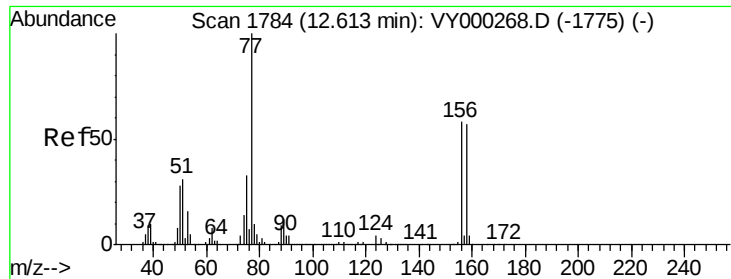
Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Tgt Ion:	75	Resp:	7758
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





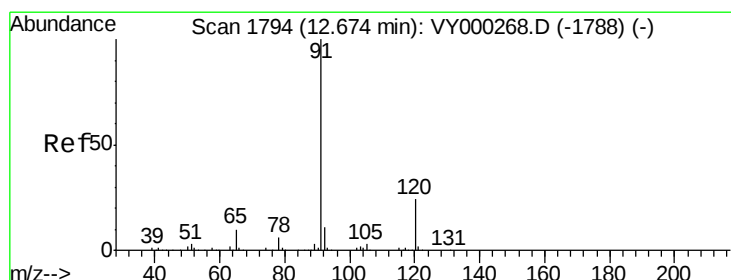
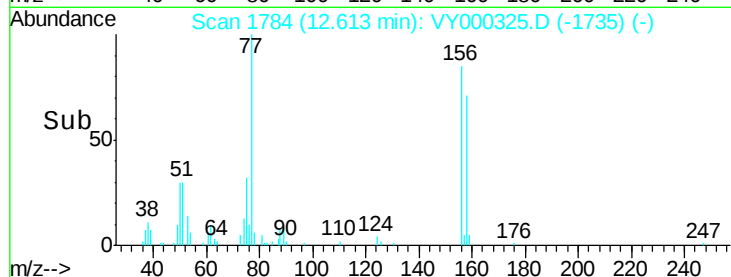
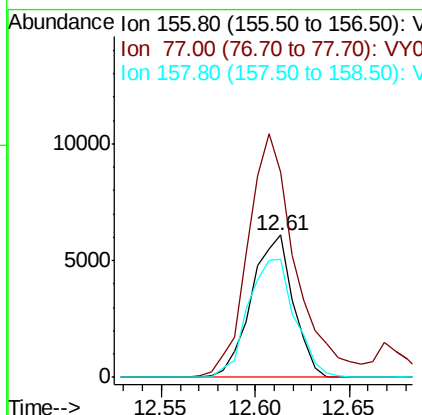
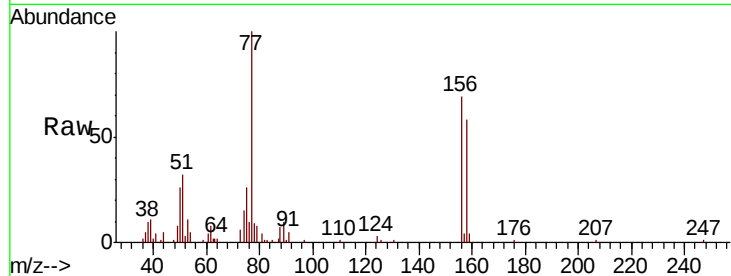
#77
Bromobenzene
Concen: 2.709 ug/l
RT: 12.61 min Scan# 1784
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
156	100		
77	195.8	101.0	302.9
158	92.8	49.7	149.1

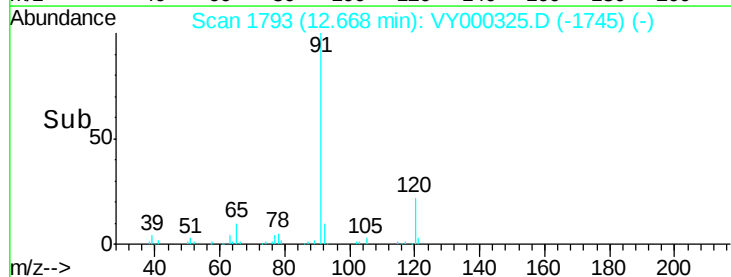
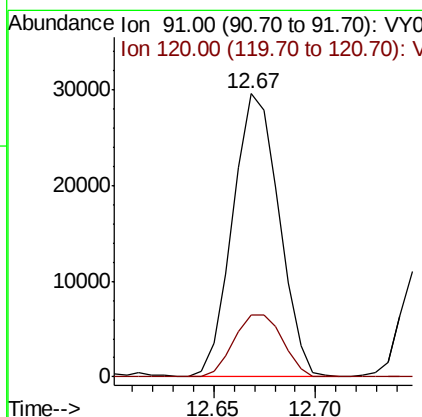
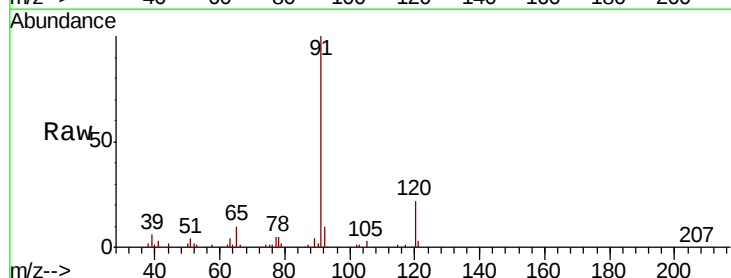
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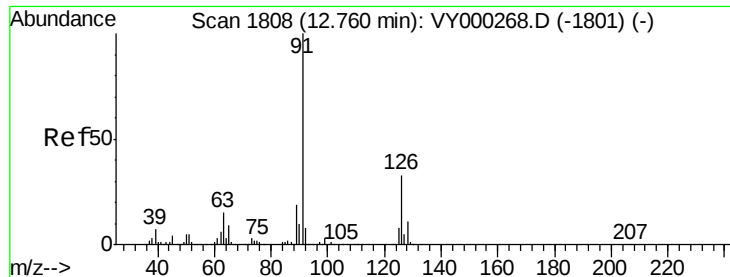
MMDadoda
10/18/2019 12:50:38 AM



#78
n-propylbenzene
Concen: 2.510 ug/l
RT: 12.67 min Scan# 1793
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5





#79

2-Chlorotoluene

Concen: 2.468 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. -0.01 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 91 Resp: 25395

Ion Ratio Lower Upper

91 100

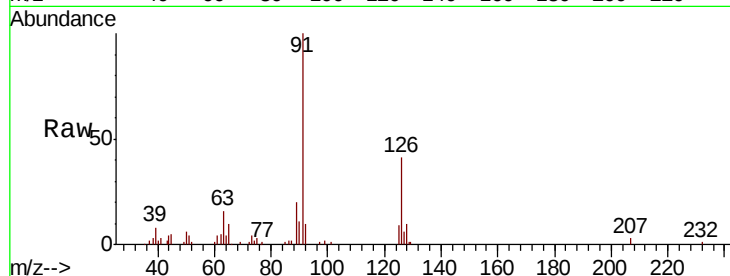
126 34.8 17.1 51.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VY000325.D (-1759) (-)

Ion 125.90 (125.60 to 126.60): VY000325.D (-1759) (-)

20000

15000

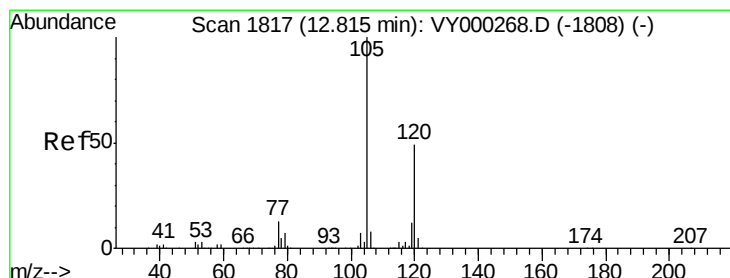
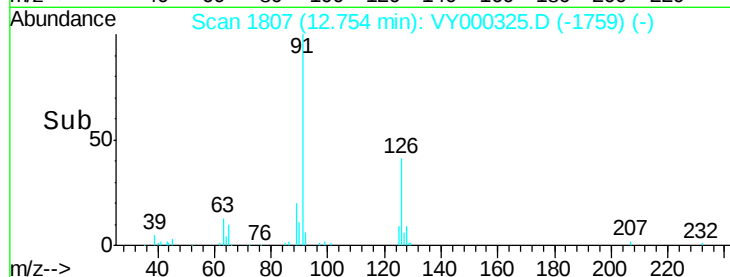
10000

5000

0

12.70 12.75 12.80

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 2.535 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VY000325.D

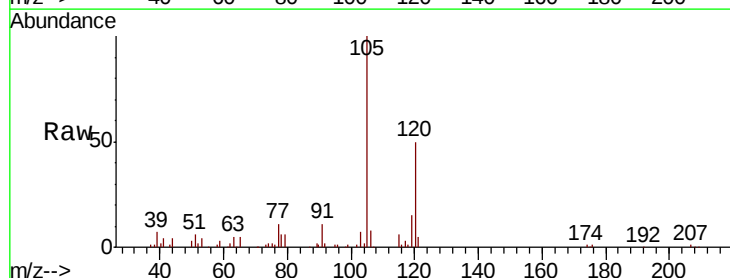
Acq: 16 Oct 2019 13:26

Tgt Ion: 105 Resp: 32996

Ion Ratio Lower Upper

105 100

120 49.7 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): VY000325.D (-1768) (-)

Ion 120.00 (119.70 to 120.70): VY000325.D (-1768) (-)

25000

20000

15000

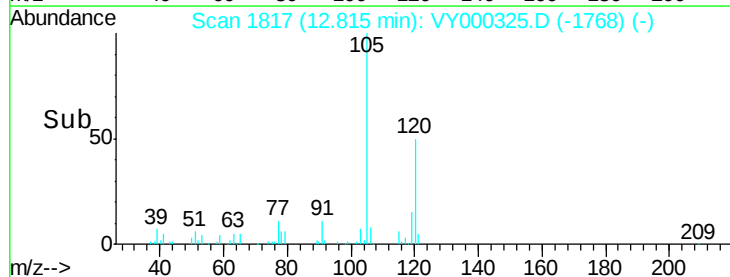
10000

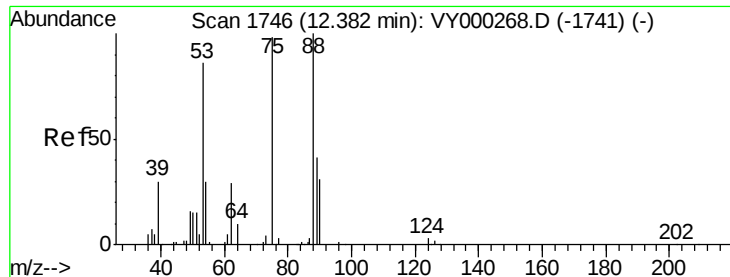
5000

0

12.75 12.80 12.85

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 2.137 ug/l m

RT: 12.38 min Scan# 1746

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

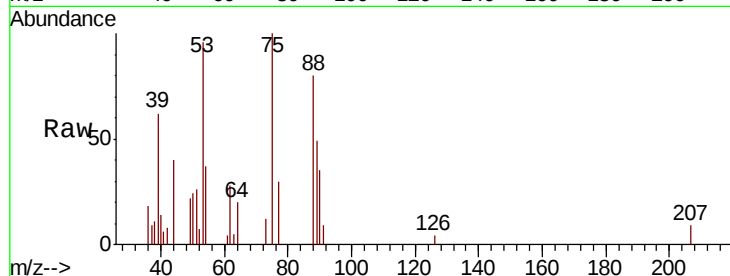
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

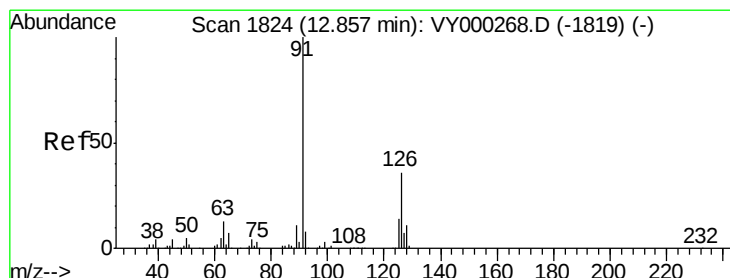
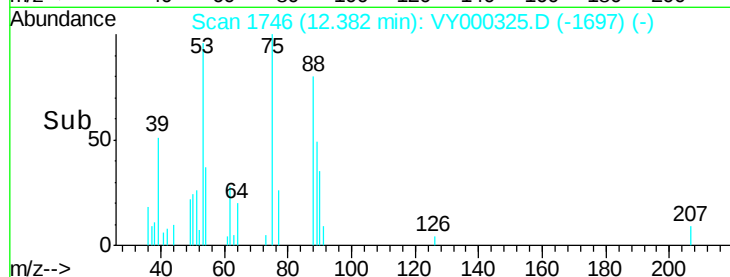
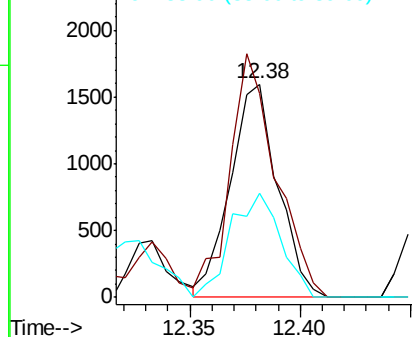
Tot Ion:	75	Resp:	2391
Ion	Ratio	Lower	Upper
75	100		
53	0.0	71.3	106.9#
89	29.1	35.1	52.7#

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



#82

4-Chlorotoluene

Concen: 2.625 ug/l

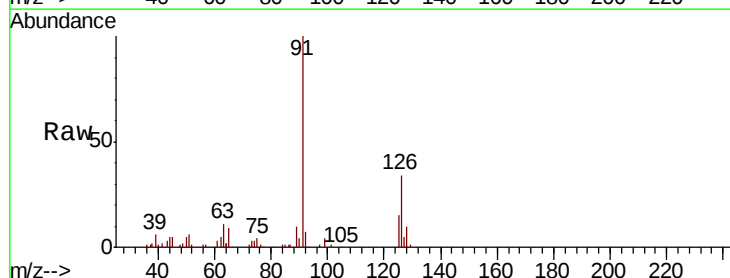
RT: 12.85 min Scan# 1823

Delta R.T. -0.01 min

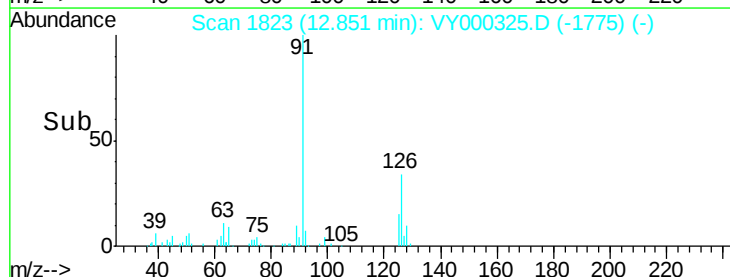
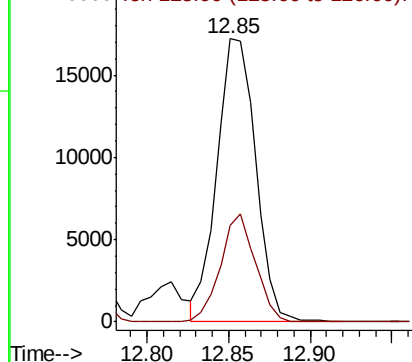
Lab File: VY000325.D

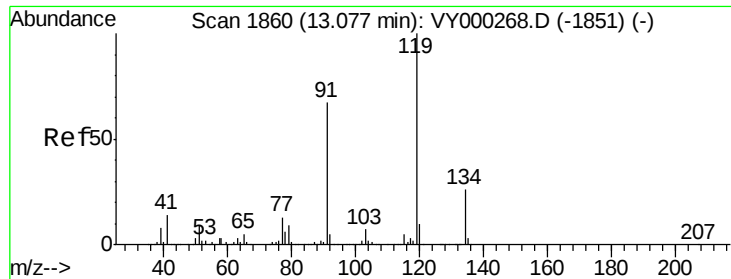
Acq: 16 Oct 2019 13:26

Tgt Ion:	91	Resp:	28557
Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.2	51.5



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





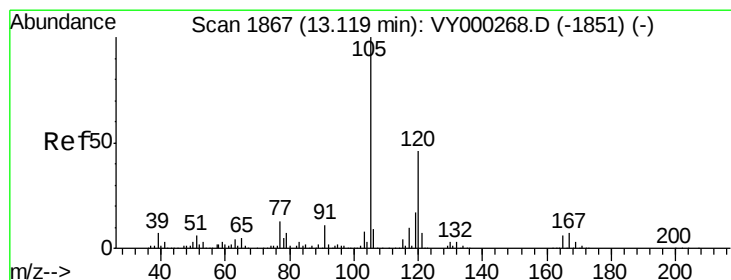
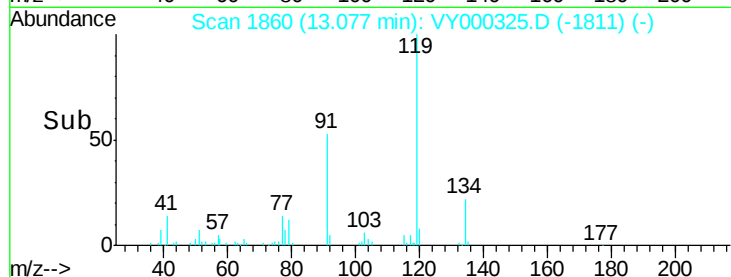
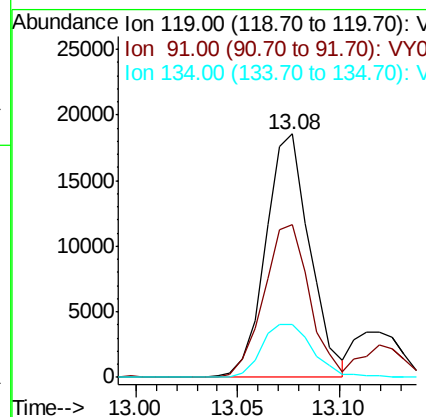
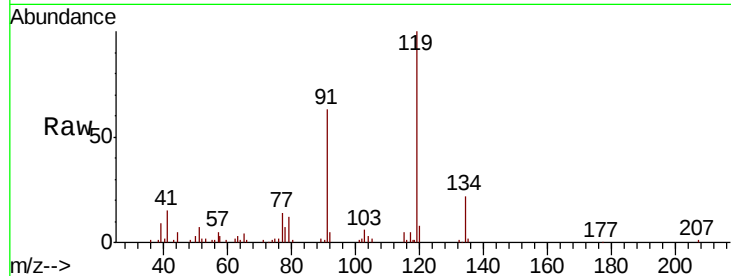
#83
 tert-Butylbenzene
 Concen: 2.544 ug/l
 RT: 13.08 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.9	98.7
134	25.3	13.3	39.8

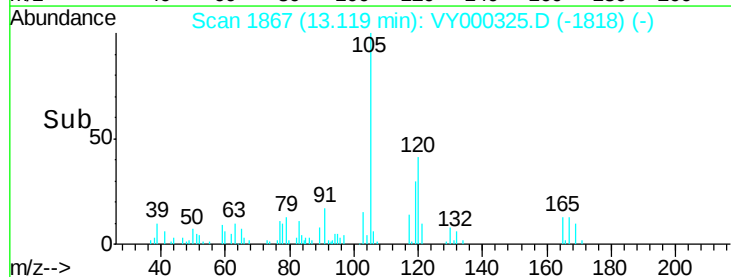
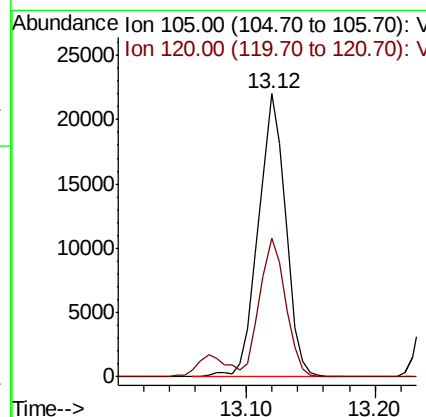
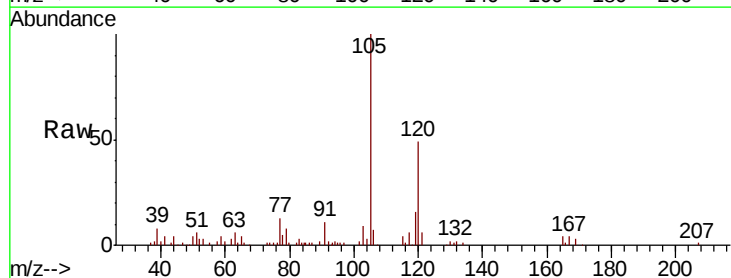
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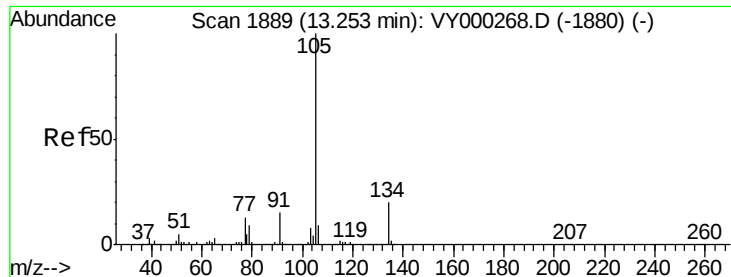
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#84
 1,2,4-Trimethylbenzene
 Concen: 2.493 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.9	68.8





#85

sec-Butylbenzene

Concen: 2.411 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

Instrument :

MSVOA_Y

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:105 Resp: 38445

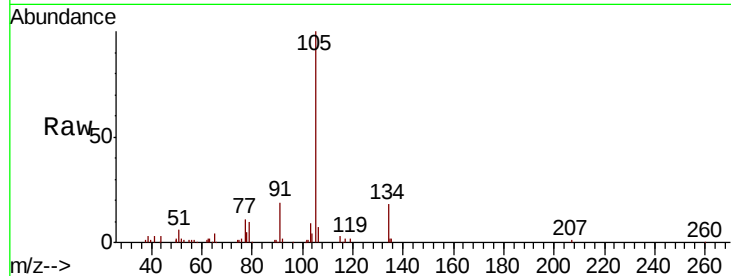
Ion Ratio Lower Upper

105 100

134 21.4 10.1 30.1

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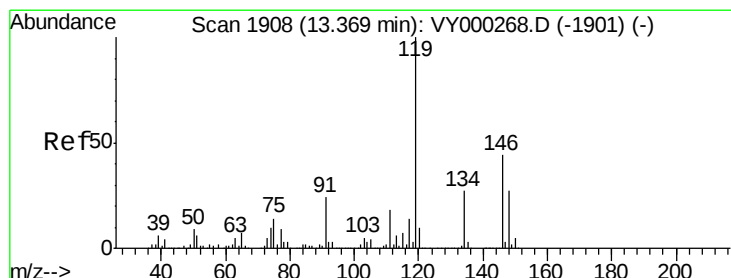
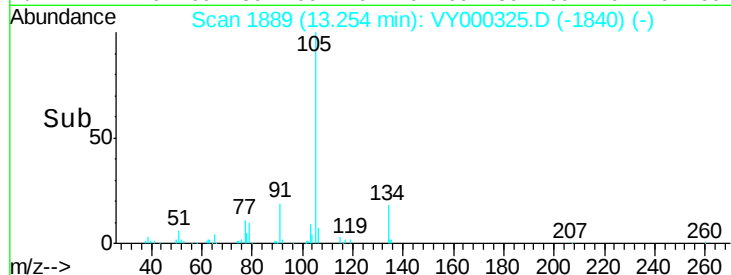


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.25

Time--> 13.15 13.20 13.25 13.30



#86

p-Isopropyltoluene

Concen: 2.441 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY000325.D

Acq: 16 Oct 2019 13:26

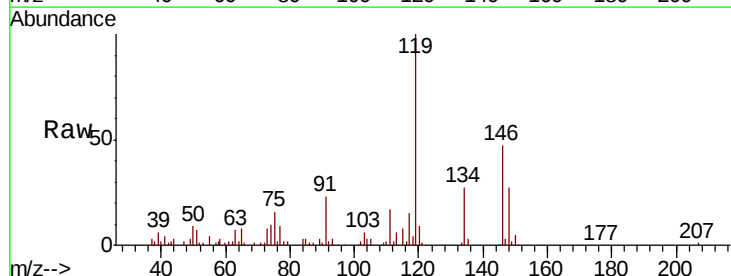
Tgt Ion:119 Resp: 33923

Ion Ratio Lower Upper

119 100

134 28.0 13.6 40.8

91 25.3 12.0 36.1



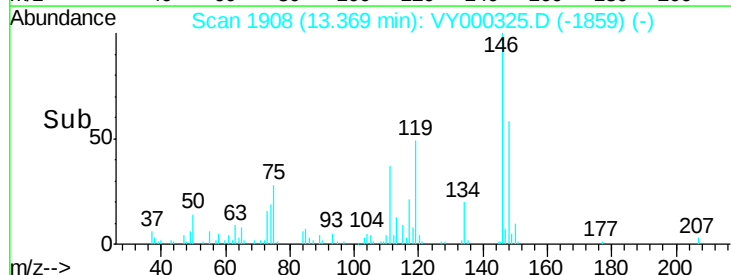
Abundance Ion 119.00 (118.70 to 119.70): V

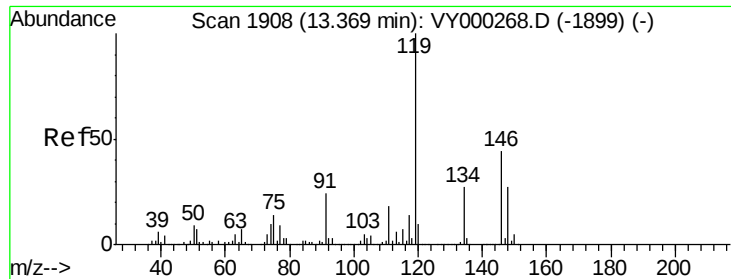
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

13.37

Time--> 13.30 13.35 13.40





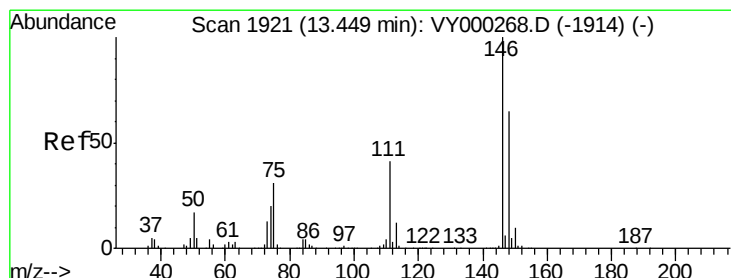
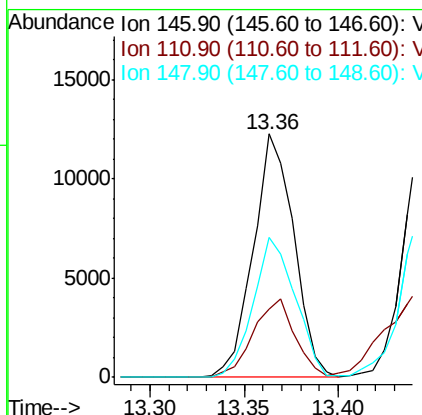
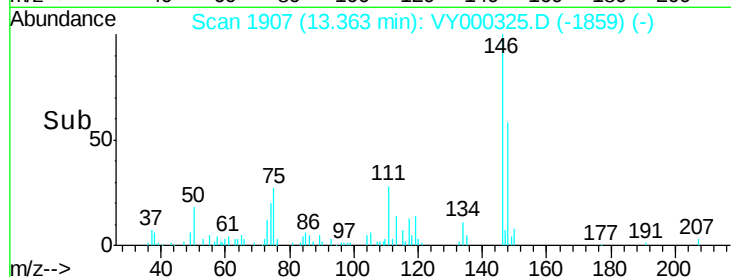
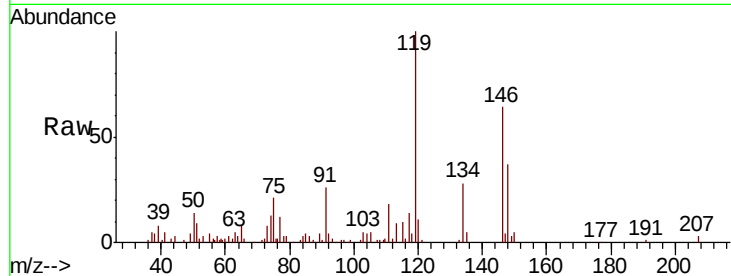
#87
 1,3-Dichlorobenzene
 Concen: 2.690 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.2	20.6	61.8
148	59.8	31.9	95.5

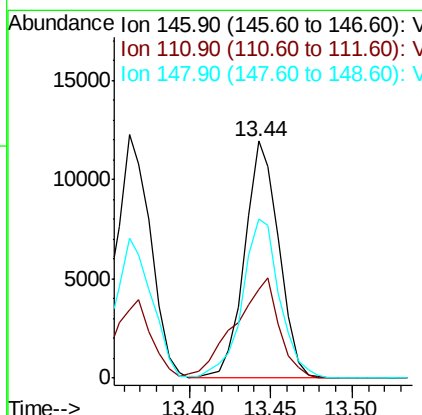
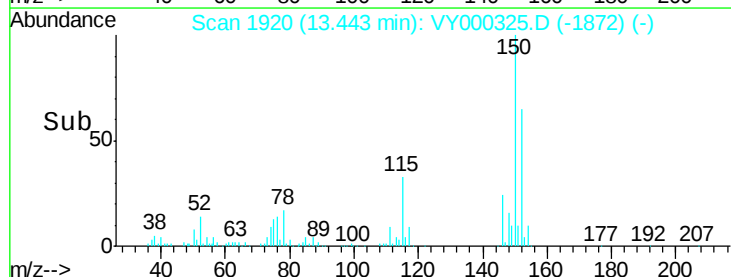
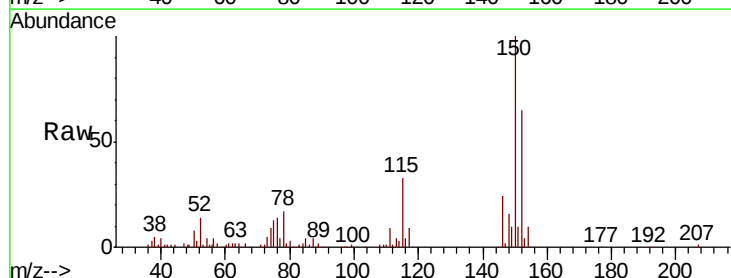
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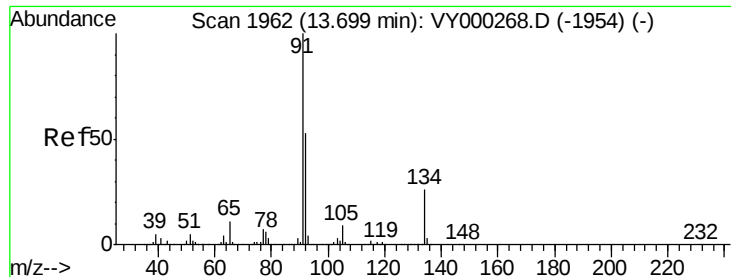
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#88
 1,4-Dichlorobenzene
 Concen: 2.555 ug/l
 RT: 13.44 min Scan# 1920
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	55.1	20.1	60.2
148	73.8	32.4	97.2





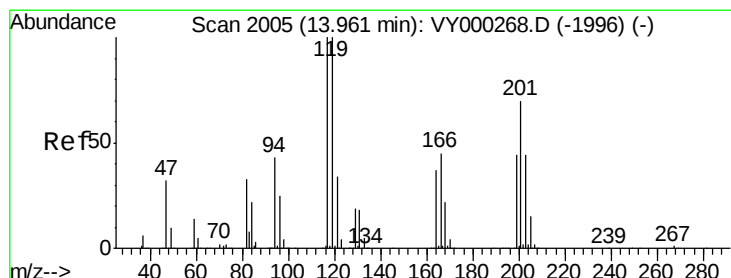
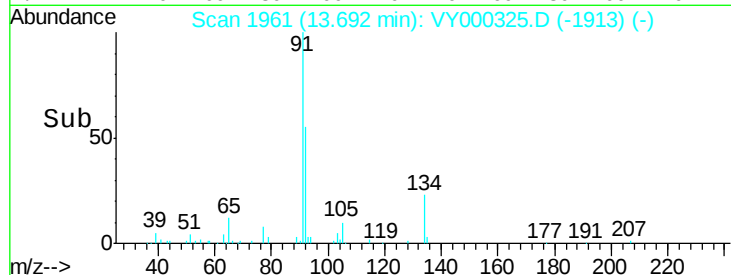
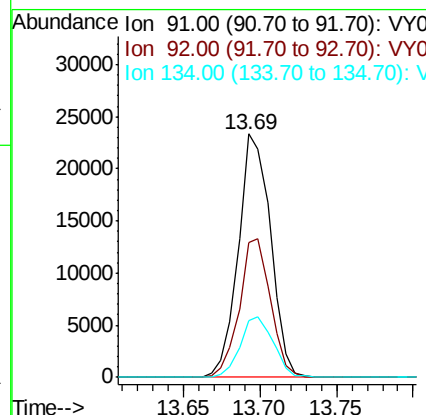
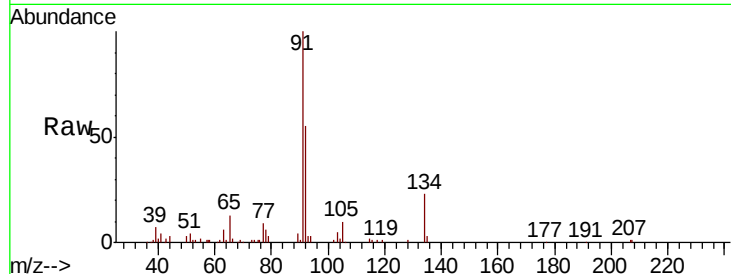
#89
n-Butylbenzene
Concen: 2.489 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.9	26.7	80.1
134	25.4	13.0	38.9

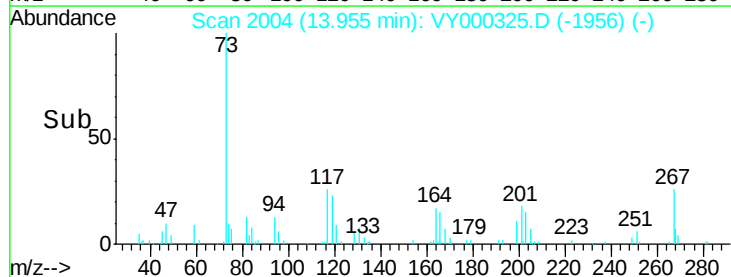
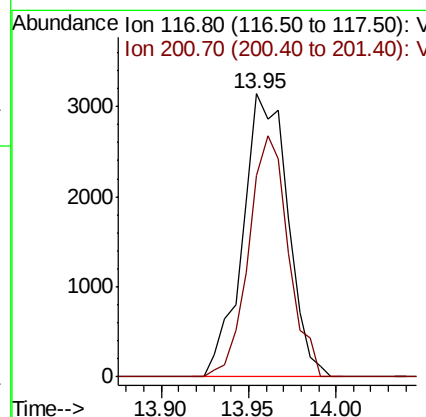
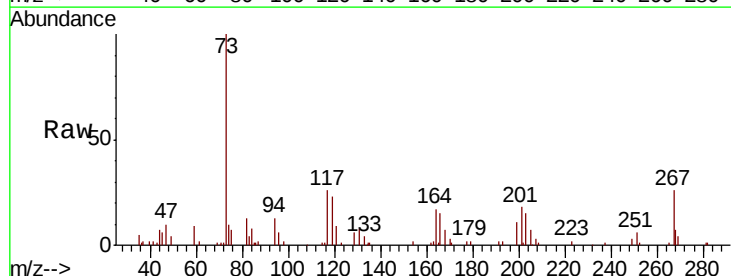
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#90
Hexachloroethane
Concen: 2.189 ug/l
RT: 13.95 min Scan# 2004
Delta R.T. -0.01 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.7	36.3	108.7





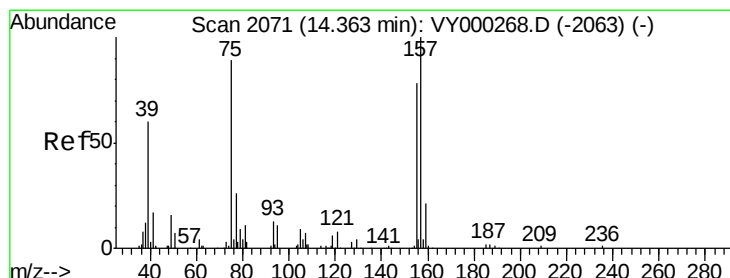
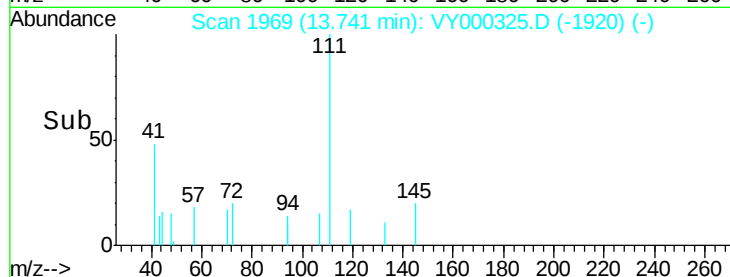
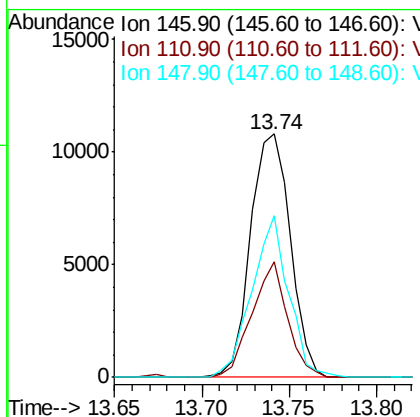
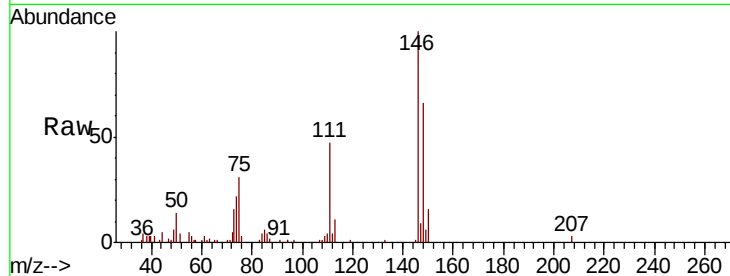
#91
 1,2-Dichlorobenzene
 Concen: 2.774 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.5	61.5
148	61.6	31.6	95.0

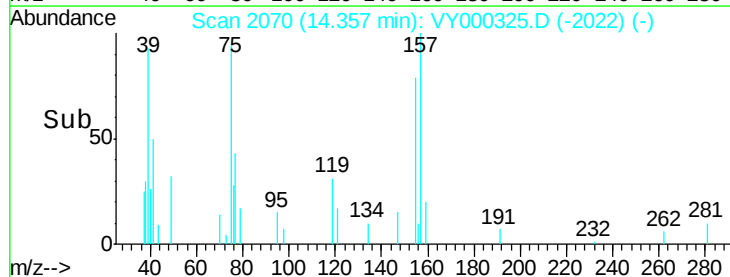
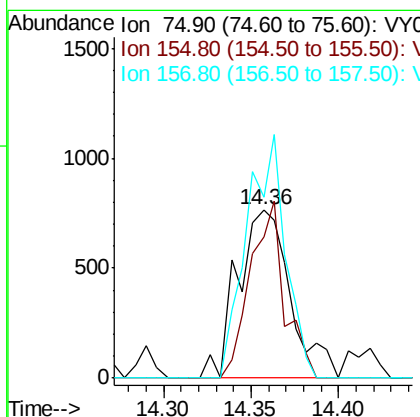
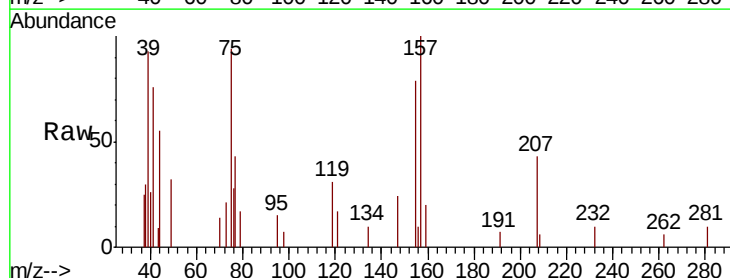
Manual Integrations
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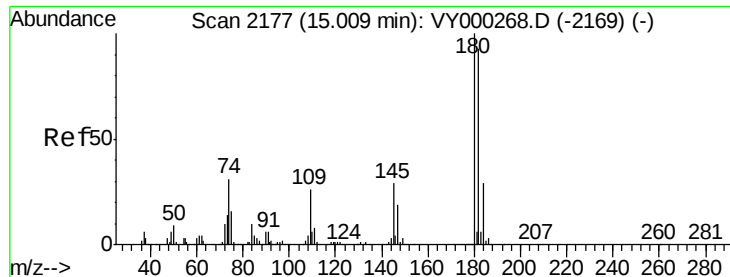
MMDadoda
 10/18/2019 12:50:38 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.904 ug/l
 RT: 14.36 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	68.3	45.8	137.3
157	106.2	55.6	166.9





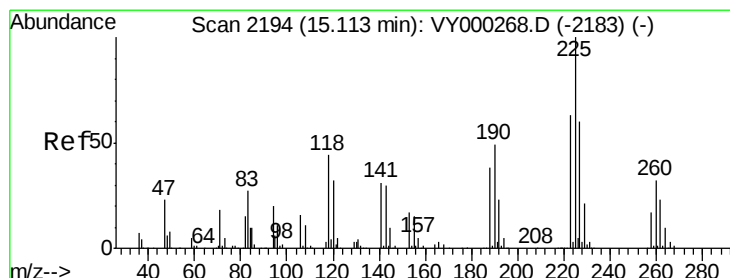
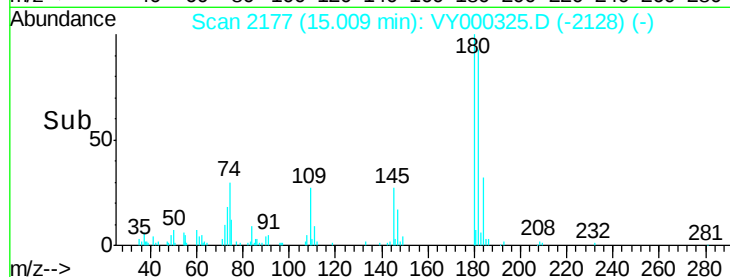
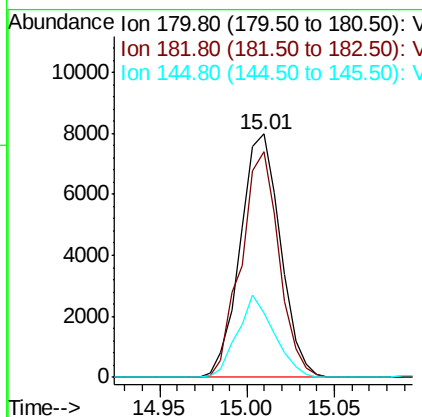
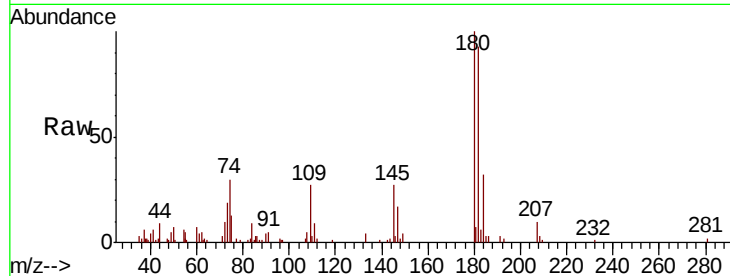
#93
 1,2,4-Trichlorobenzene
 Concen: 2.969 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.6	47.5	142.6
145	31.0	15.4	46.1

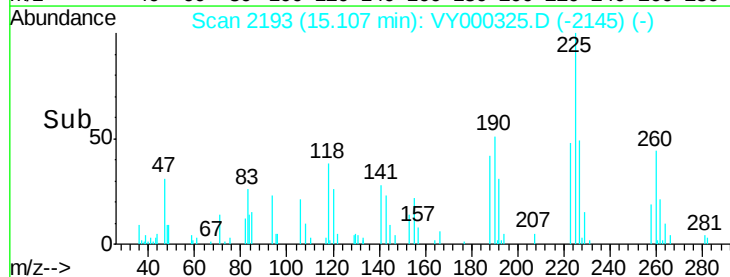
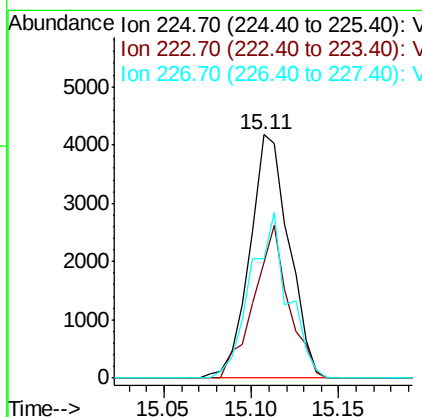
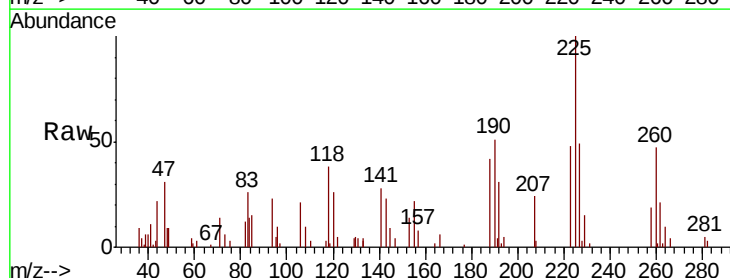
Manual Integrations
 APPROVED

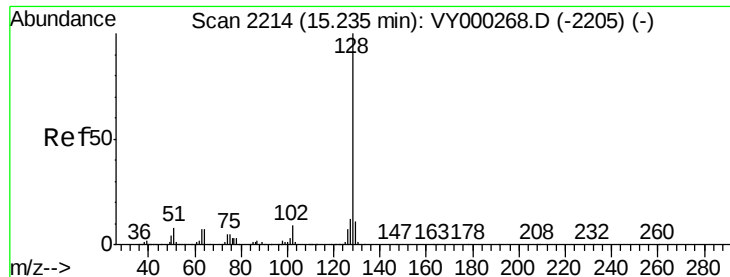
MMDadoda
 10/18/2019 12:50:38 AM



#94
 Hexachlorobutadiene
 Concen: 2.810 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY000325.D
 Acq: 16 Oct 2019 13:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	55.6	31.9	95.7
227	65.0	31.4	94.2





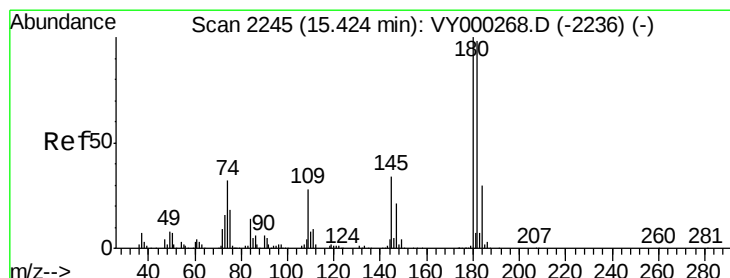
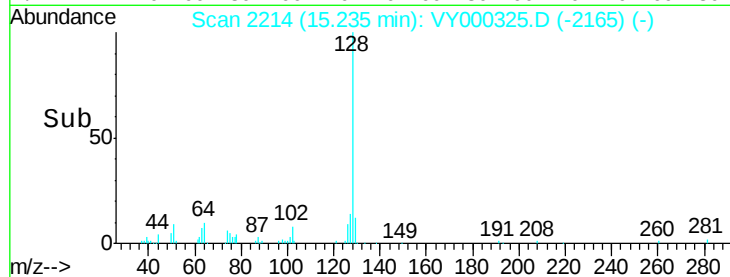
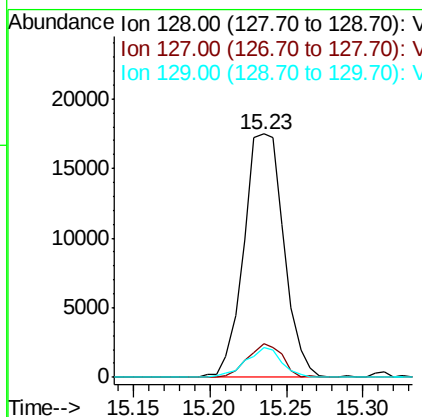
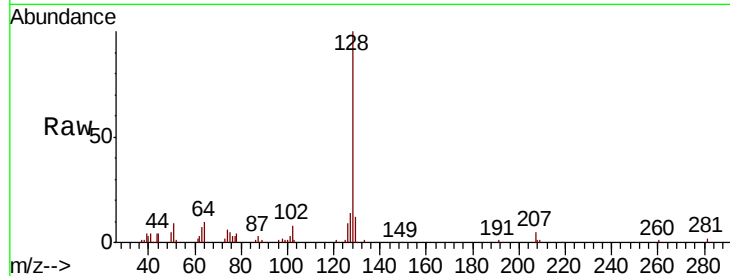
#95
Naphthalene
Concen: 3.324 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Instrument :
MSVOA_Y
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	128	Resp:	31806
Ion Ratio	Lower	Upper	
128	100		
127	12.1	9.6	14.4
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/18/2019 12:50:38 AM



#96
1,2,3-Trichlorobenzene
Concen: 2.835 ug/l
RT: 15.42 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VY000325.D
Acq: 16 Oct 2019 13:26

Tgt Ion:	180	Resp:	10956
Ion Ratio	Lower	Upper	
180	100		
182	94.8	46.5	139.5
145	38.1	16.2	48.5

