

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101020\
 Data File : VU040629.D
 Acq On : 10 Oct 2020 12:21
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

Quant Time: Oct 12 01:37:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 12 01:29:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	260382	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	257446	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	123086	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	96129	42.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.98%
7) Chloroethane-d5	1.92	69	75529	44.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.66%
11) 1,1-Dichloroethene-d2	2.58	63	148845	34.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.76%
21) 2-Butanone-d5	4.65	46	199231	112.26	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.26%
24) Chloroform-d	5.08	84	181705	47.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.22%
26) 1,2-Dichloroethane-d4	5.72	65	128790	47.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.88%
32) Benzene-d6	5.74	84	352480	48.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.22%
36) 1,2-Dichloropropane-d6	6.70	67	119978	48.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.72%
41) Toluene-d8	7.91	98	303932	45.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.52%
43) trans-1,3-Dichloropropene-	8.19	79	56153	45.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.36%
47) 2-Hexanone-d5	8.64	63	126014	110.07	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.07%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	171525	48.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.70%
66) 1,2-Dichlorobenzene-d4	12.19	152	122986	49.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	6045	2.411 ug/L	97
3) Chloromethane	1.53	50	5873	2.229 ug/L	98
5) Vinyl chloride	1.61	62	6192	2.374 ug/L #	29
6) Bromomethane	1.87	94	2711	1.980 ug/L	100
8) Chloroethane	1.94	64	3862	2.454 ug/L	98
9) Trichlorofluoromethane	2.15	101	8076	2.413 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	5864	2.940 ug/L #	70
12) 1,1-Dichloroethene	2.59	96	5196	2.817 ug/L #	1
13) Acetone	2.66	43	9652	5.663 ug/L	99
14) Carbon disulfide	2.81	76	13692	2.163 ug/L	97
15) Methyl Acetate	2.97	43	7183	2.584 ug/L	98
16) Methylene chloride	3.06	84	5183	2.370 ug/L	89
17) trans-1,2-Dichloroethene	3.38	96	4053	2.063 ug/L	96
18) Methyl tert-butyl Ether	3.38	73	12791	2.070 ug/L	97
19) 1,1-Dichloroethane	3.89	63	9055	2.311 ug/L	95
20) cis-1,2-Dichloroethene	4.69	96	4970	2.348 ug/L	92
22) 2-Butanone	4.73	43	11777	5.417 ug/L	95

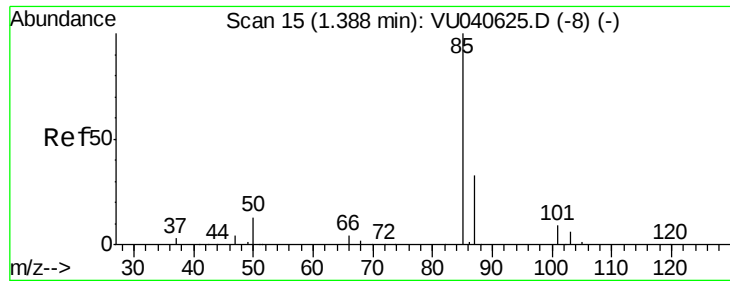
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101020\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	2341	2.122	ug/L	89
25) Chloroform	5.11	83	13454	3.368	ug/L	98
27) 1,2-Dichloroethane	5.82	62	7971	2.418	ug/L	98
29) Cyclohexane	5.41	56	6409	1.859	ug/L #	78
30) 1,1,1-Trichloroethane	5.33	97	7870	2.380	ug/L	99
31) Carbon tetrachloride	5.54	117	6438	2.252	ug/L	91
33) Benzene	5.79	78	18863	2.267	ug/L	100
34) Trichloroethene	6.56	95	5076	2.368	ug/L	91
35) Methylcyclohexane	6.78	83	6753	2.072	ug/L	99
37) 1,2-Dichloropropane	6.81	63	5139	2.249	ug/L #	95
38) Bromodichloromethane	7.12	83	6721	2.264	ug/L	95
39) cis-1,3-Dichloropropene	7.62	75	7365	2.199	ug/L	94
40) 4-Methyl-2-pentanone	7.80	43	15252	4.230	ug/L	99
42) Toluene	7.98	91	18731	2.205	ug/L	98
44) trans-1,3-Dichloropropene	8.22	75	7286	2.161	ug/L	99
45) 1,1,2-Trichloroethane	8.41	97	4677	2.285	ug/L	89
46) Tetrachloroethene	8.56	164	3468	2.239	ug/L	91
48) 2-Hexanone	8.69	43	17447	5.953	ug/L	98
49) Dibromochloromethane	8.81	129	4917	2.200	ug/L	91
50) 1,2-Dibromoethane	8.93	107	4930	2.272	ug/L #	92
51) Chlorobenzene	9.45	112	11979	2.150	ug/L	98
52) Ethylbenzene	9.57	91	19085	2.024	ug/L	100
53) m,p-Xylene	9.70	106	6502	1.872	ug/L	97
54) o-xylene	10.10	106	6354	1.923	ug/L	98
55) Styrene	10.11	104	9913	1.704	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.78	83	8432	2.329	ug/L #	91
59) Bromoform	10.29	173	3356	2.225	ug/L	95
60) 1,2,3-Trichloropropane	10.82	75	6786	2.427	ug/L	100
61) Isopropylbenzene	10.48	105	15572	1.884	ug/L	98
62) 1,3,5-Trimethylbenzene	11.09	105	11434	1.684	ug/L	96
63) 1,2,4-Trimethylbenzene	11.46	105	11086	1.610	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	8458	2.098	ug/L	100
65) 1,4-Dichlorobenzene	11.83	146	9664	2.283	ug/L	96
67) 1,2-Dichlorobenzene	12.21	146	9375	2.322	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.99	75	1606	2.044	ug/L	87
69) 1,3,5-Trichlorobenzene	13.21	180	5598	2.120	ug/L	97
70) 1,2,4-trichlorobenzene	13.83	180	4153	1.814	ug/L	97
71) Naphthalene	14.08	128	8250	1.166	ug/L	97
72) 1,2,3-Trichlorobenzene	14.32	180	3995	1.758	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 2.411 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

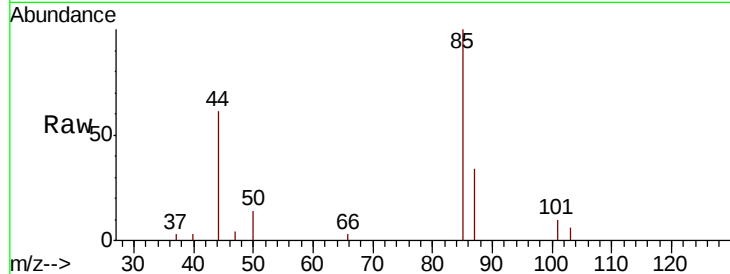
MDL-ME-SOIL-05

Tot Ion: 85 Resp: 6045

Ion Ratio Lower Upper

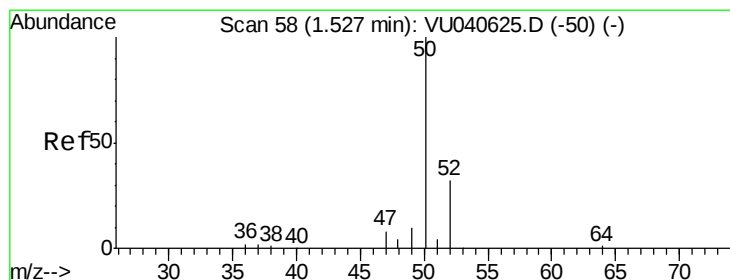
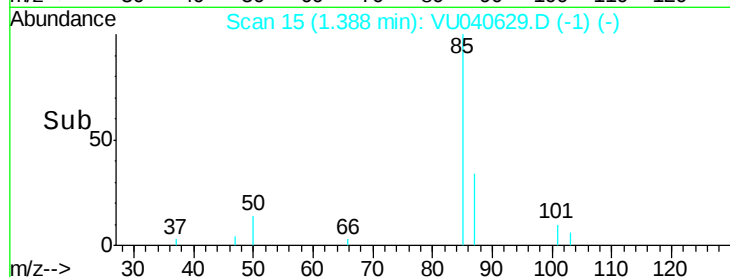
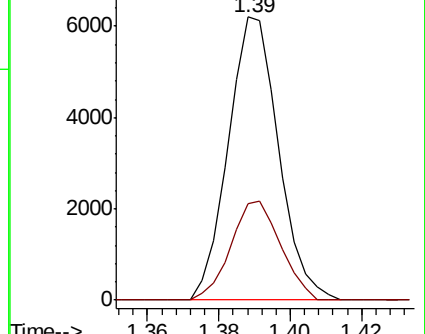
85 100

87 34.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040629.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU040629.D (-8) (-)



#3

Chloromethane

Concen: 2.229 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040629.D

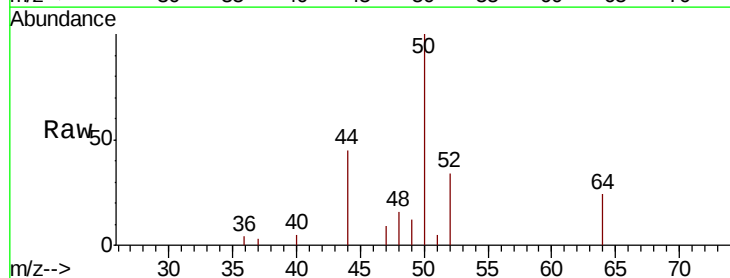
Acq: 10 Oct 2020 12:21

Tgt Ion: 50 Resp: 5873

Ion Ratio Lower Upper

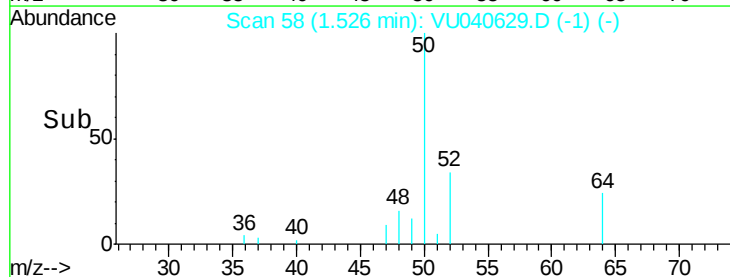
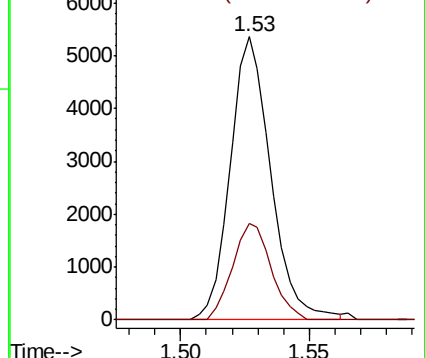
50 100

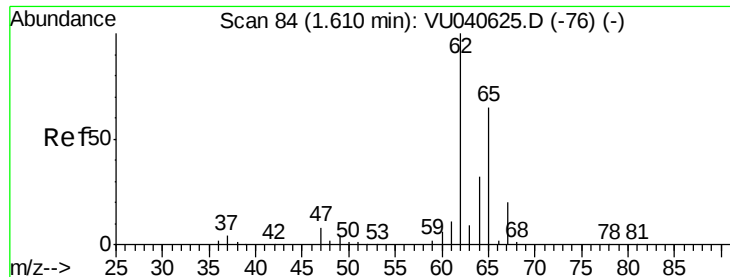
52 34.0 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040629.D (-50) (-)

Ion 52.00 (51.70 to 52.70): VU040629.D (-50) (-)





#5

Vinyl chloride

Concen: 2.374 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

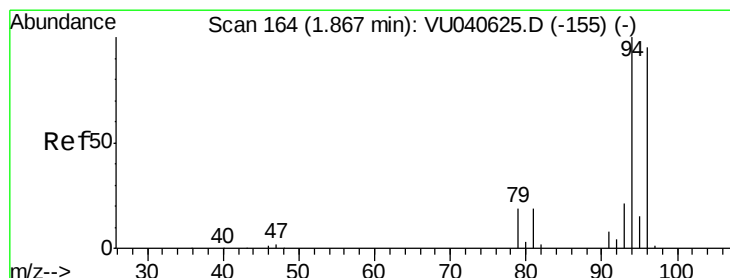
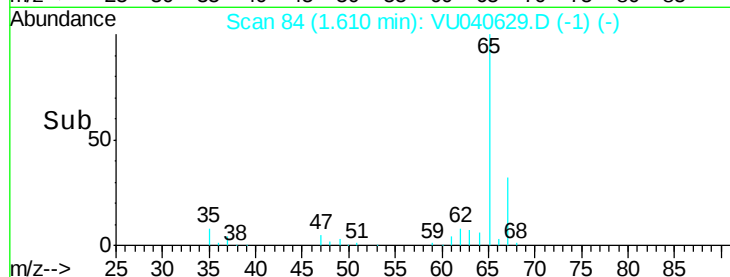
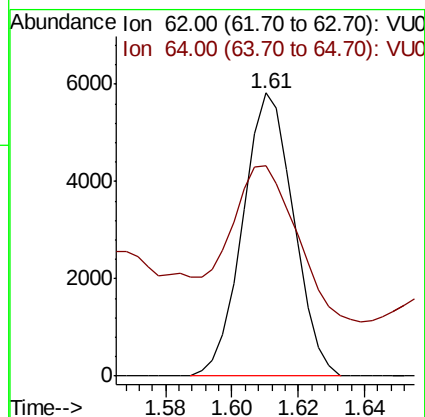
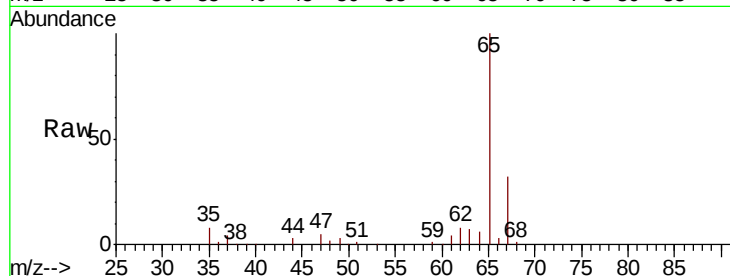
MDL-ME-SOIL-05

Tot Ion: 62 Resp: 6192

Ion Ratio Lower Upper

62 100

64 74.1 23.4 43.6#



#6

Bromomethane

Concen: 1.980 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040629.D

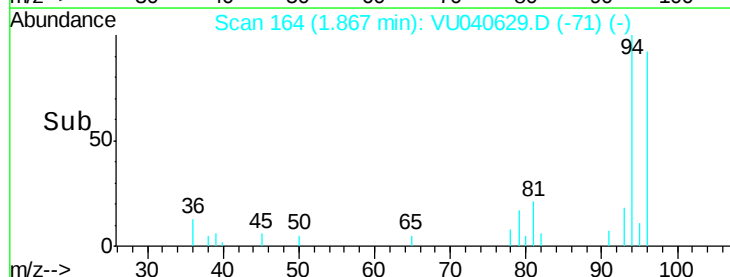
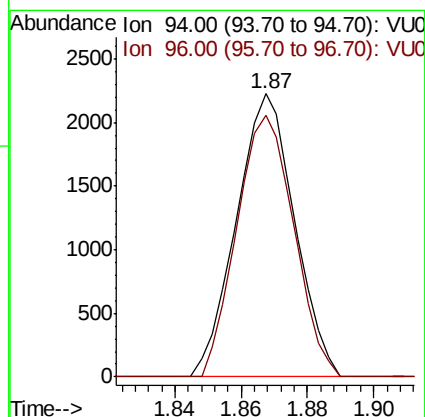
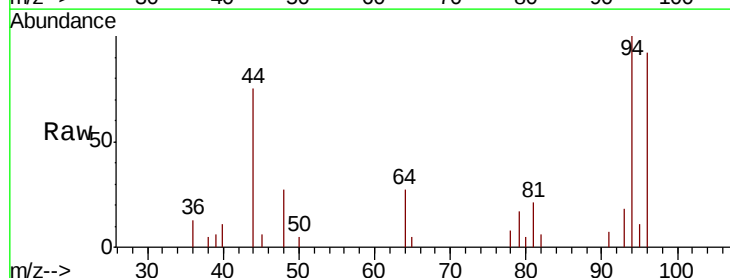
Acq: 10 Oct 2020 12:21

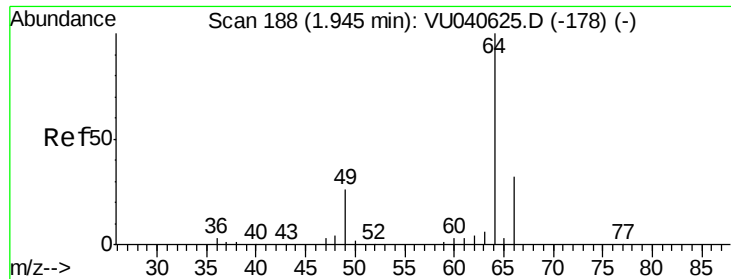
Tgt Ion: 94 Resp: 2711

Ion Ratio Lower Upper

94 100

96 92.3 64.4 119.6

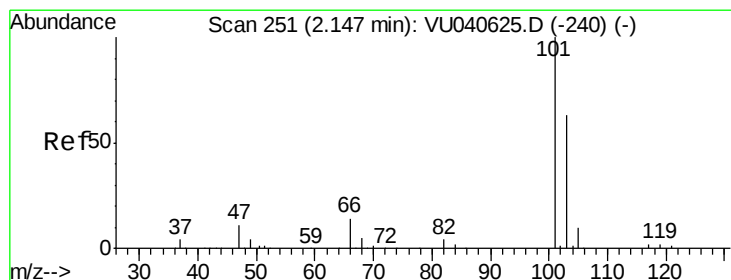
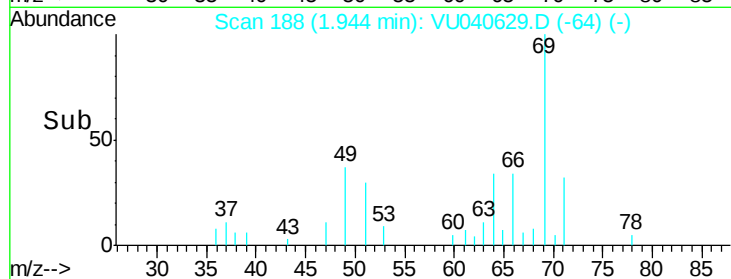
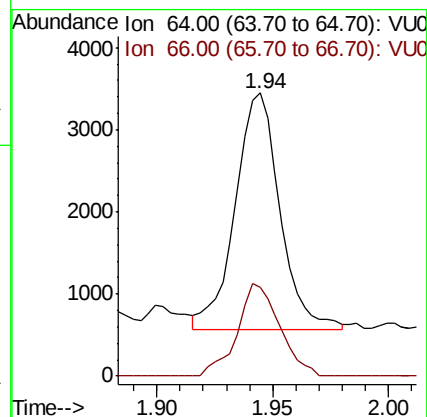
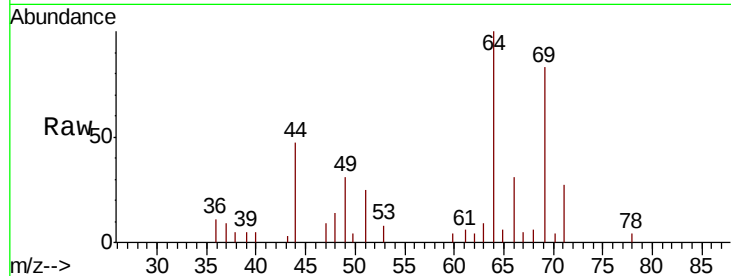




#8
Chloroethane
Concen: 2.454 ug/L
RT: 1.94 min Scan# 188
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

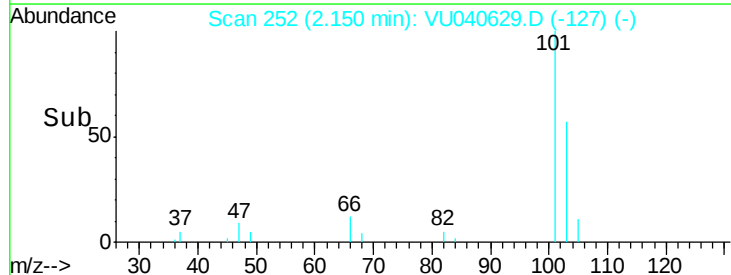
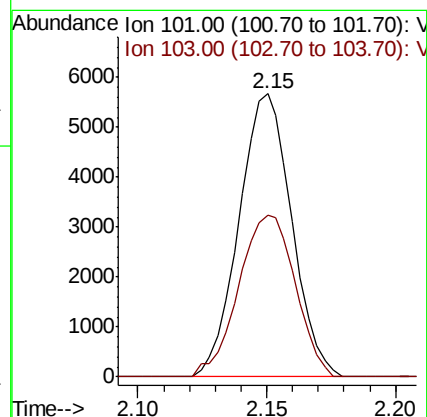
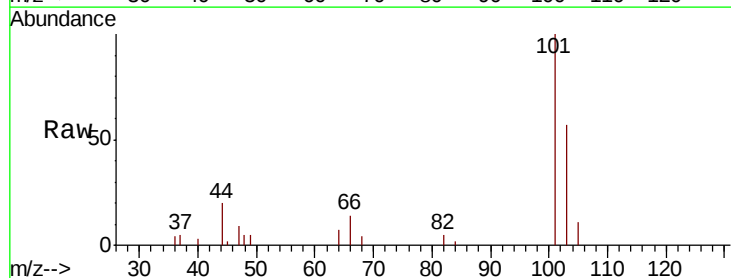
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

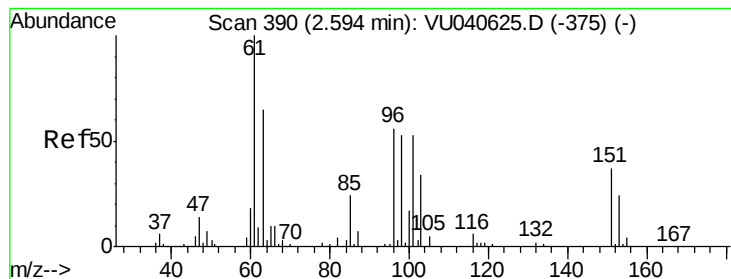
Tot Ion: 64 Resp: 3862
Ion Ratio Lower Upper
64 100
66 31.3 22.5 41.9



#9
Trichlorofluoromethane
Concen: 2.413 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion:101 Resp: 8076
Ion Ratio Lower Upper
101 100
103 61.4 52.1 78.1





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.940 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-05

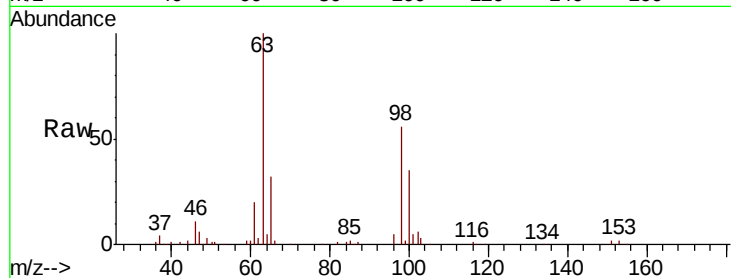
Tot Ion:101 Resp: 5864

Ion Ratio Lower Upper

101 100

85 15.6 35.4 53.2#

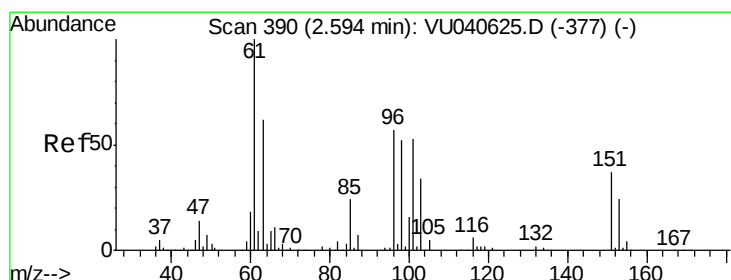
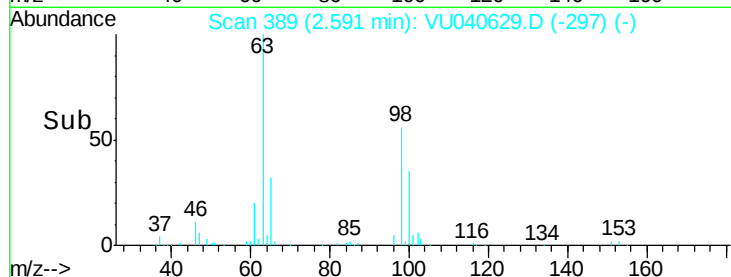
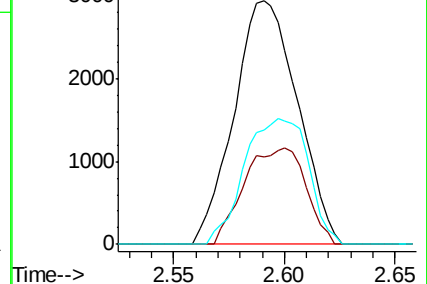
151 52.0 54.8 82.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.817 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

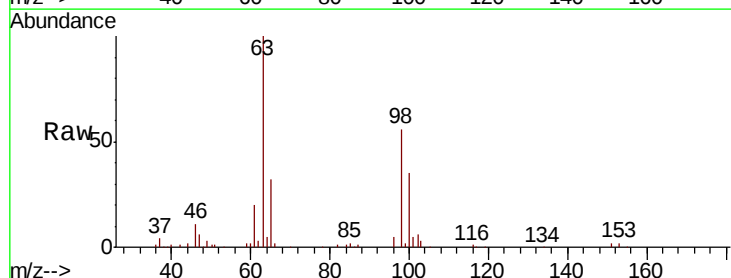
Tgt Ion: 96 Resp: 5196

Ion Ratio Lower Upper

96 100

61 384.1 135.0 250.8#

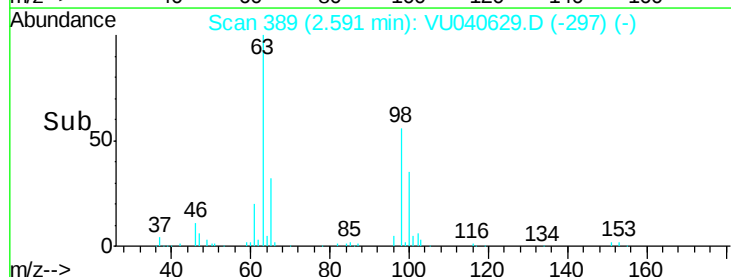
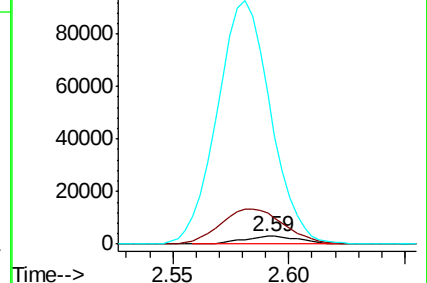
63 1886.5 101.4 188.2#

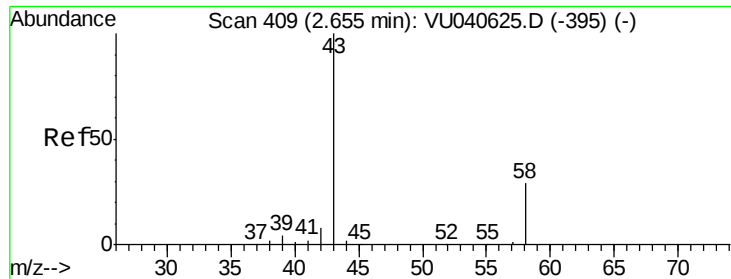


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

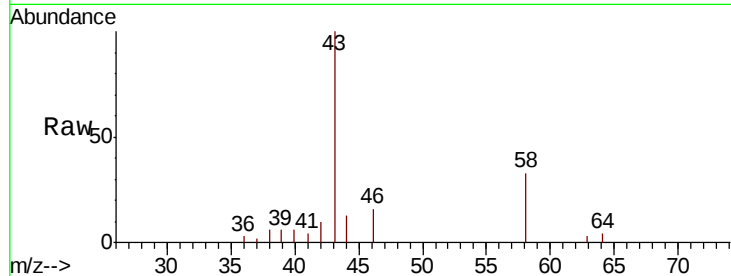




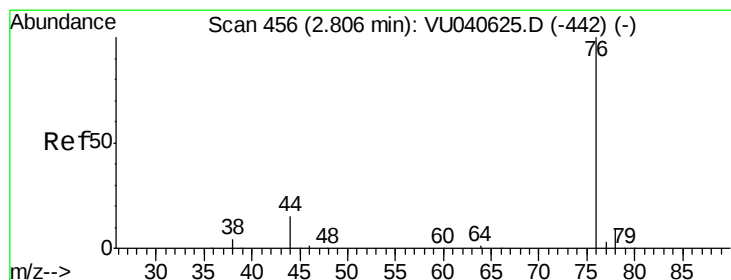
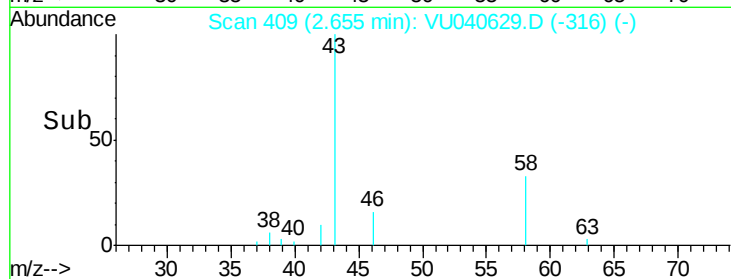
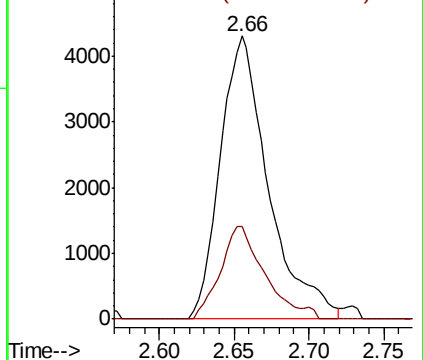
#13
Acetone
Concen: 5.663 ug/L
RT: 2.66 min Scan# 409
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 9652
Ion Ratio Lower Upper
43 100
58 29.3 0.0 60.2

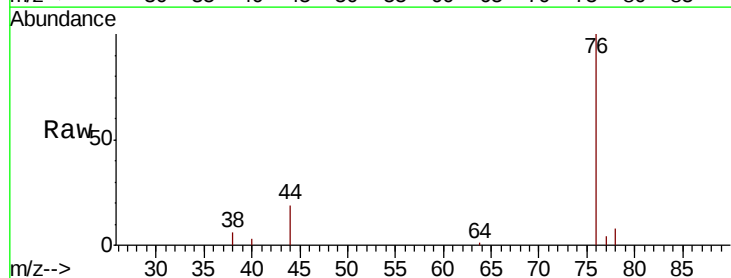


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

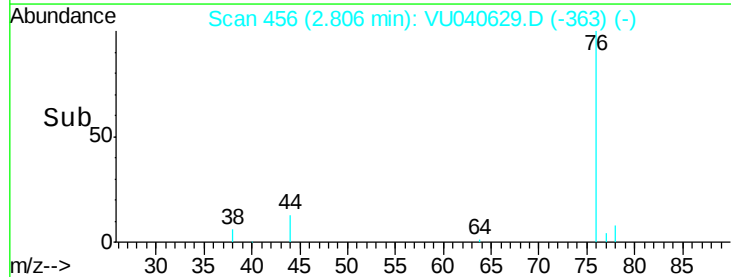
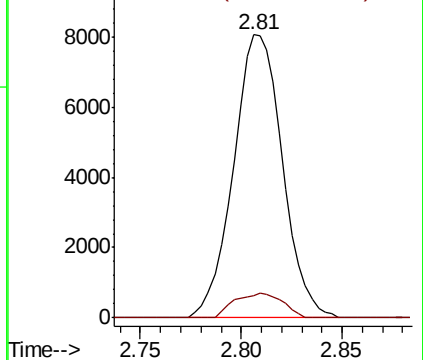


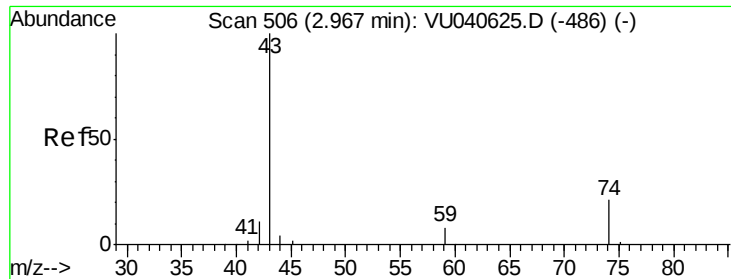
#14
Carbon disulfide
Concen: 2.163 ug/L
RT: 2.81 min Scan# 456
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion: 76 Resp: 13692
Ion Ratio Lower Upper
76 100
78 8.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0
Ion 78.00 (77.70 to 78.70): VU0

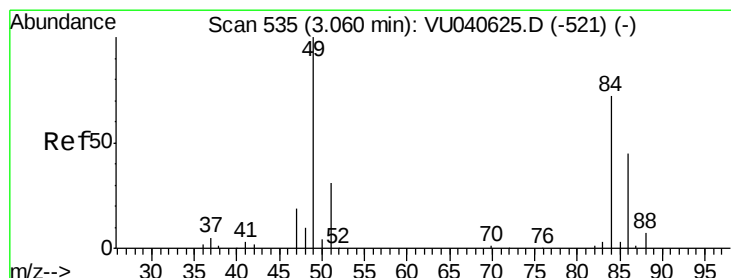
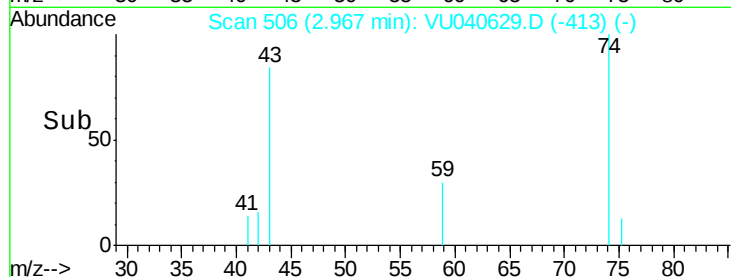
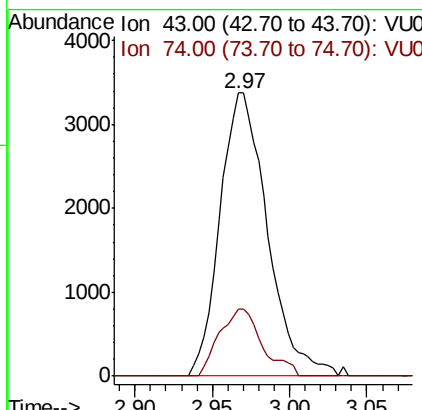
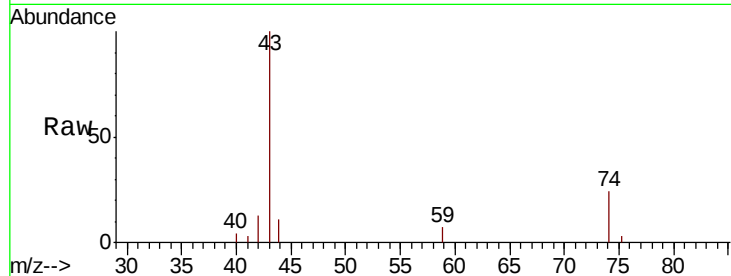




#15
Methvl Acetate
Concen: 2.584 ug/L
RT: 2.97 min Scan# 506
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

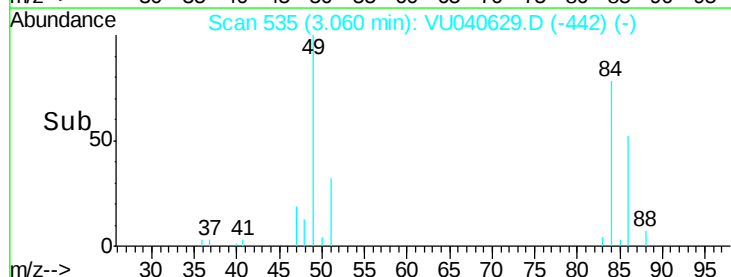
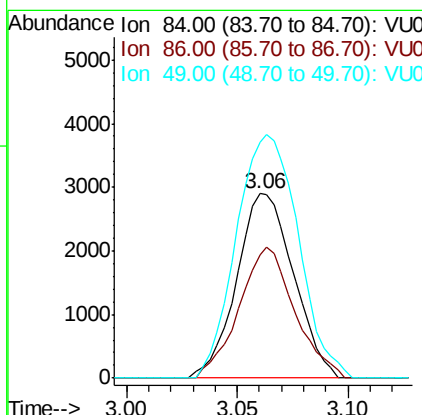
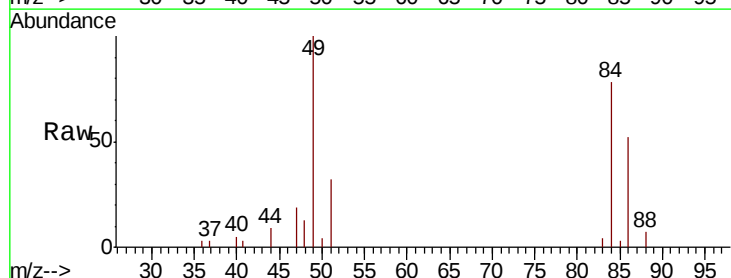
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

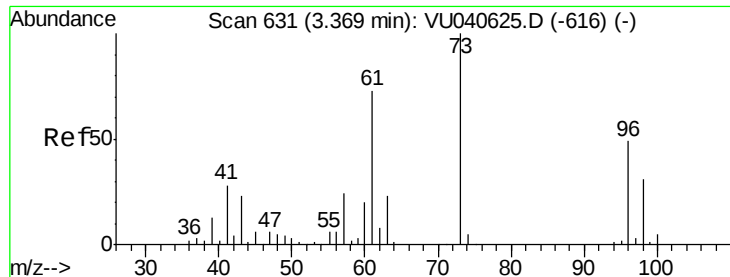
Tot Ion: 43 Resp: 7183
Ion Ratio Lower Upper
43 100
74 19.7 16.4 24.6



#16
Methylene chloride
Concen: 2.370 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion: 84 Resp: 5183
Ion Ratio Lower Upper
84 100
86 66.9 45.4 84.4
49 128.1 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 2.063 ug/L

RT: 3.38 min Scan# 633

Delta R.T. 0.01 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-05

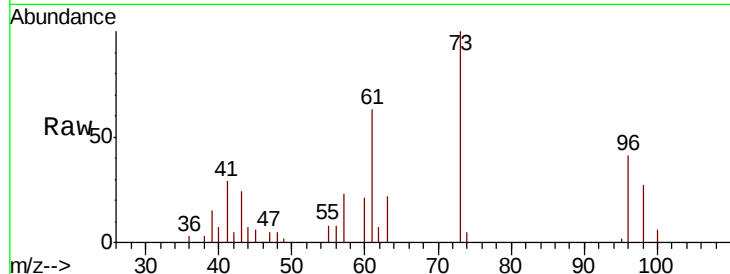
Tot Ion: 96 Resp: 4053

Ion Ratio Lower Upper

96 100

61 150.9 109.6 203.6

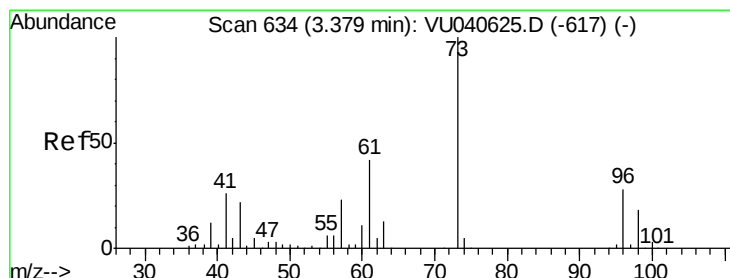
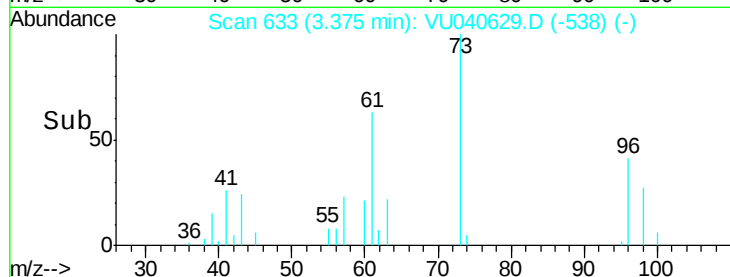
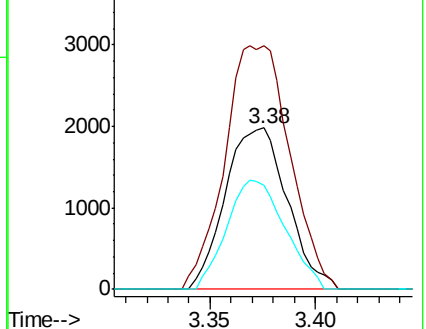
98 64.2 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040629.D (-538) (-)

Ion 61.00 (60.70 to 61.70): VU040629.D (-538) (-)

Ion 98.00 (97.70 to 98.70): VU040629.D (-538) (-)



#18

Methyl tert-butyl Ether

Concen: 2.070 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.01 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

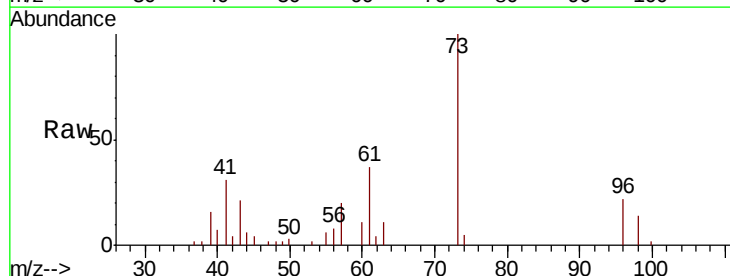
Tgt Ion: 73 Resp: 12791

Ion Ratio Lower Upper

73 100

43 21.9 18.2 27.2

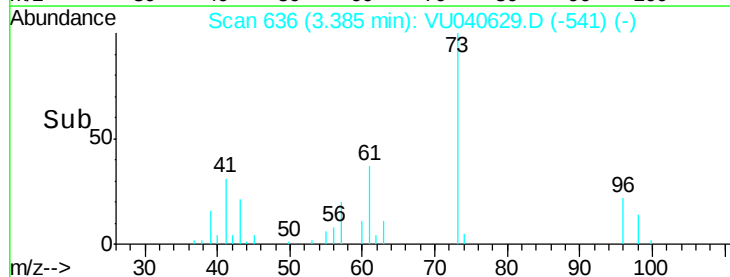
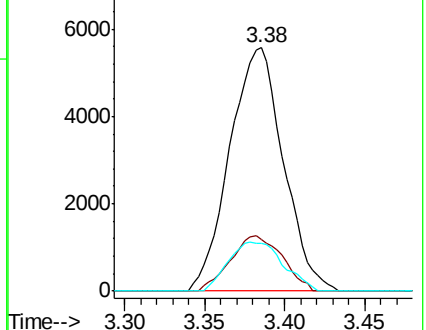
57 20.5 18.5 27.7

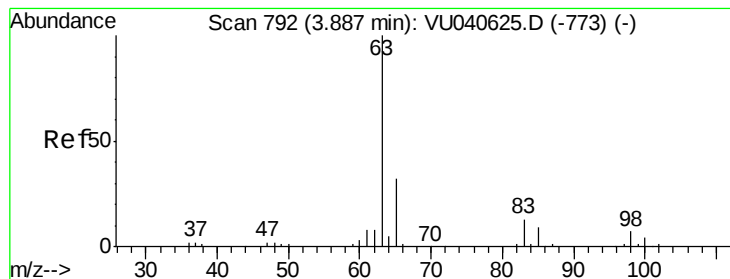


Abundance Ion 73.00 (72.70 to 73.70): VU040629.D (-541) (-)

Ion 43.00 (42.70 to 43.70): VU040629.D (-541) (-)

Ion 57.00 (56.70 to 57.70): VU040629.D (-541) (-)





#19

1,1-Dichloroethane

Concen: 2.311 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-05

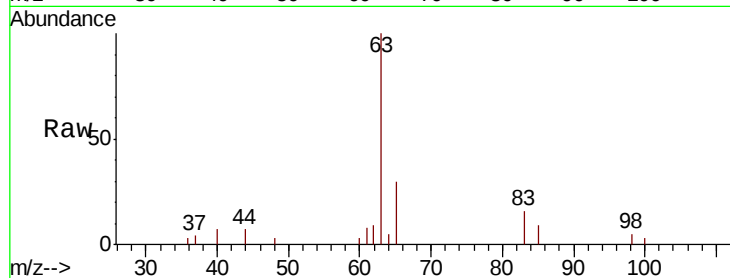
Tot Ion: 63 Resp: 9055

Ion Ratio Lower Upper

63 100

65 29.9 22.6 42.0

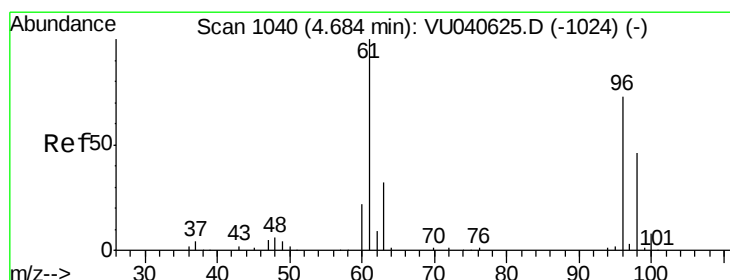
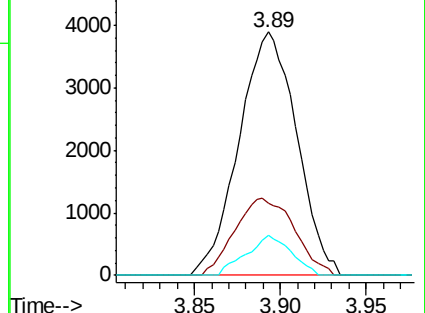
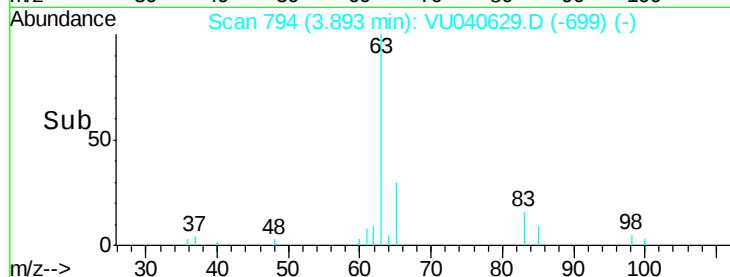
83 16.2 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU040629.D (-699) (-)

Ion 65.00 (64.70 to 65.70): VU040629.D (-699) (-)

Ion 83.00 (82.70 to 83.70): VU040629.D (-699) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.348 ug/L

RT: 4.69 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

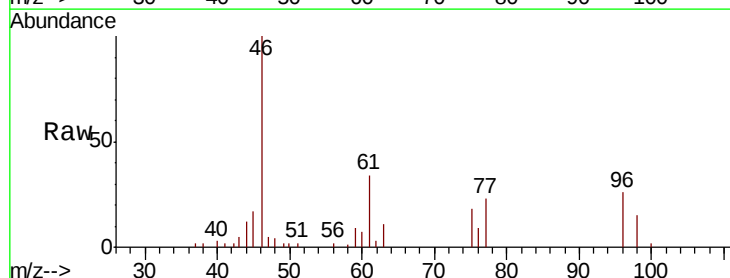
Tgt Ion: 96 Resp: 4970

Ion Ratio Lower Upper

96 100

61 127.2 95.7 177.7

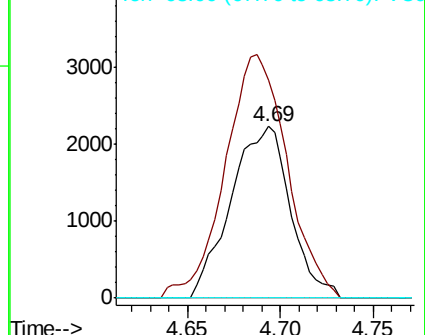
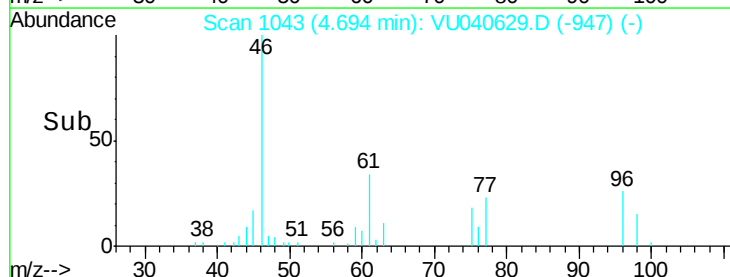
68 0.0 0.0 0.0

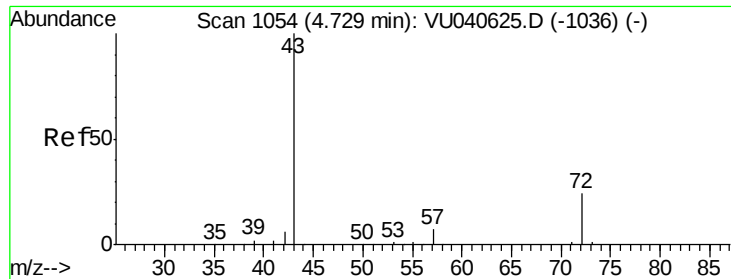


Abundance Ion 96.00 (95.70 to 96.70): VU040629.D (-947) (-)

Ion 61.00 (60.70 to 61.70): VU040629.D (-947) (-)

Ion 68.00 (67.70 to 68.70): VU040629.D (-947) (-)





#22

2-Butanone

Concen: 5.417 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

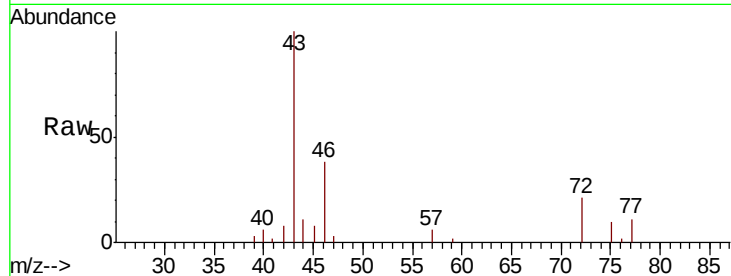
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 11777

Ion Ratio Lower Upper

43 100

72 21.3 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VU040629.D (-1036) (-)

Ion 72.00 (71.70 to 72.70): VU040629.D (-1036) (-)

4.73

5000

4000

3000

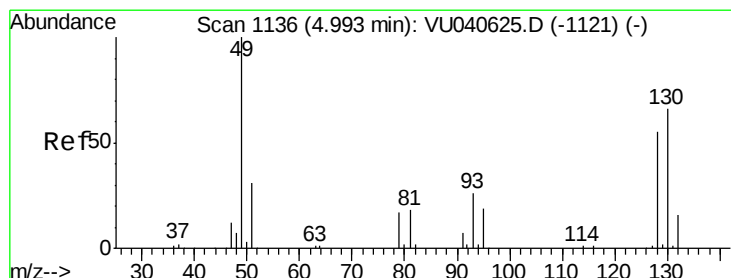
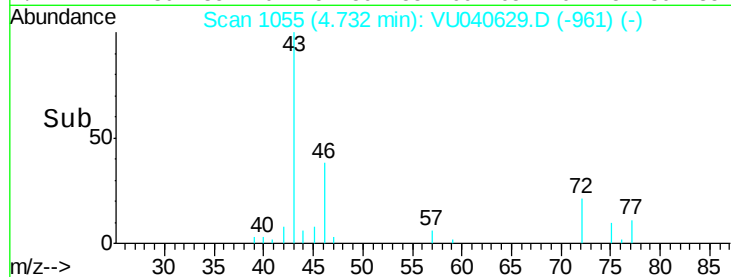
2000

1000

0

Time-->

4.65 4.70 4.75 4.80



#23

Bromochloromethane

Concen: 2.122 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Tgt Ion: 128 Resp: 2341

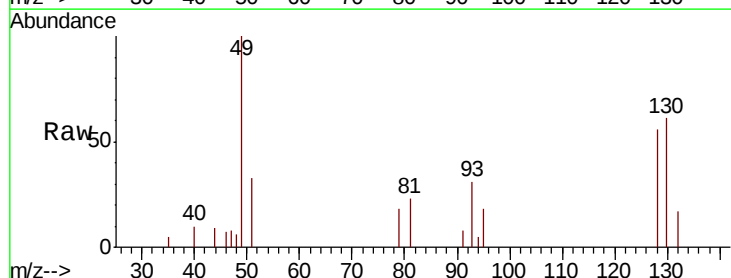
Ion Ratio Lower Upper

128 100

49 178.2 133.1 247.3

130 108.4 90.5 168.1

51 58.8 48.4 72.6



Abundance Ion 128.00 (127.70 to 128.70): VU040629.D (-1121) (-)

Ion 49.00 (48.70 to 49.70): VU040629.D (-1121) (-)

Ion 130.00 (129.70 to 130.70): VU040629.D (-1121) (-)

Ion 51.00 (50.70 to 51.70): VU040629.D (-1121) (-)

10000

8000

6000

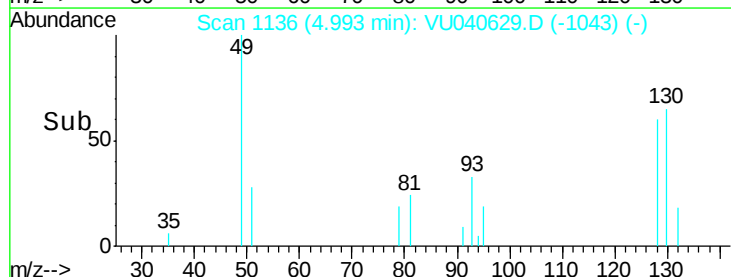
4000

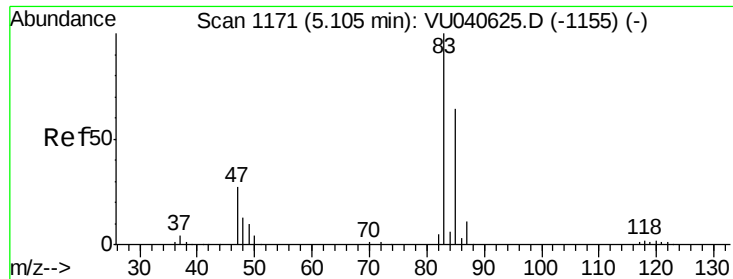
2000

0

Time-->

4.95 5.00 5.05

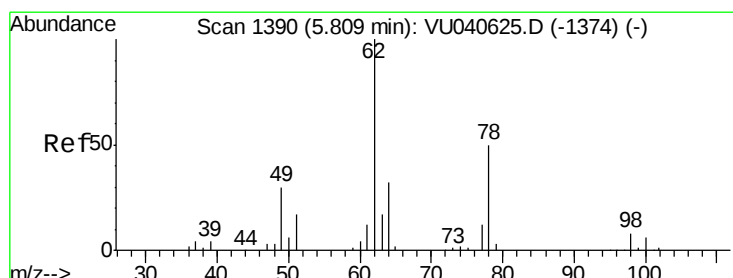
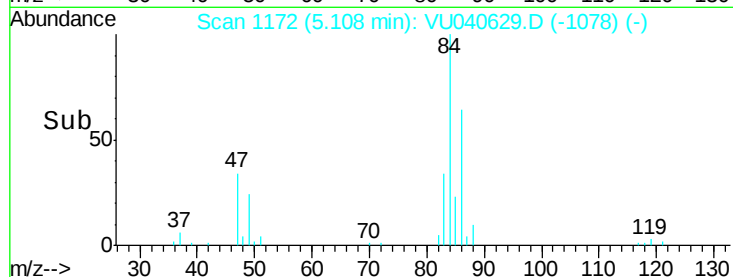
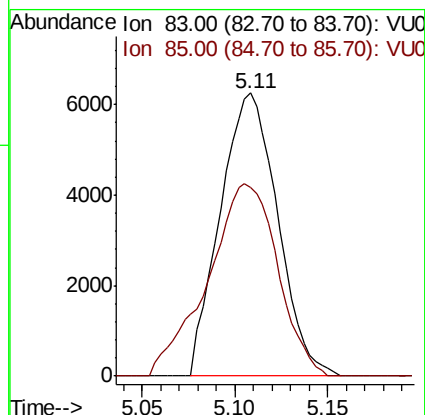
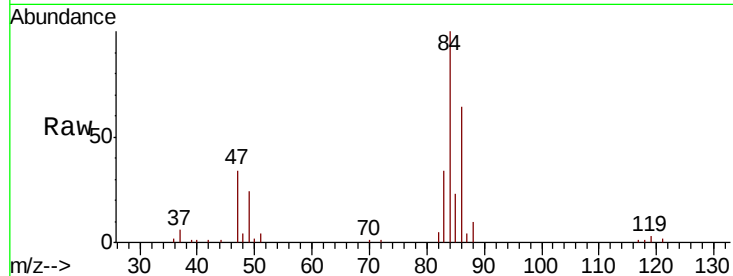




#25
Chloroform
Concen: 3.368 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

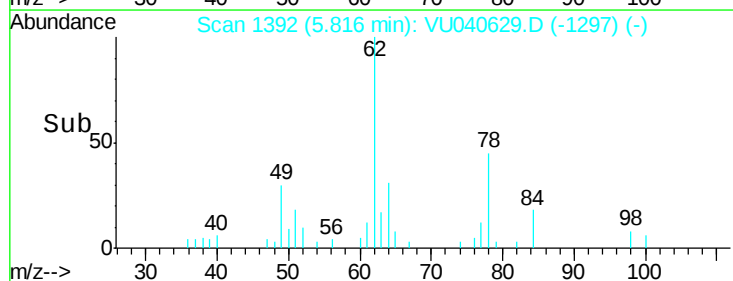
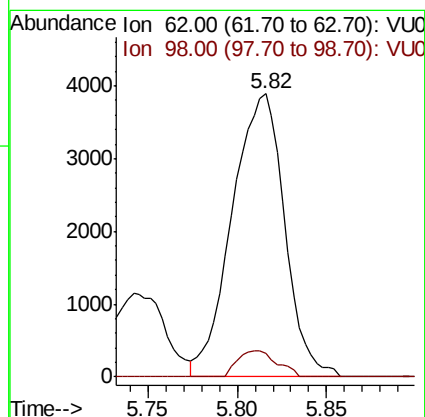
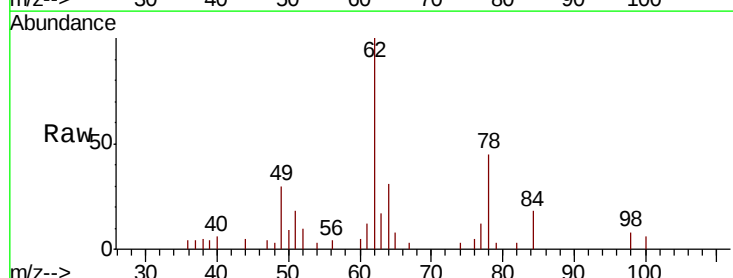
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

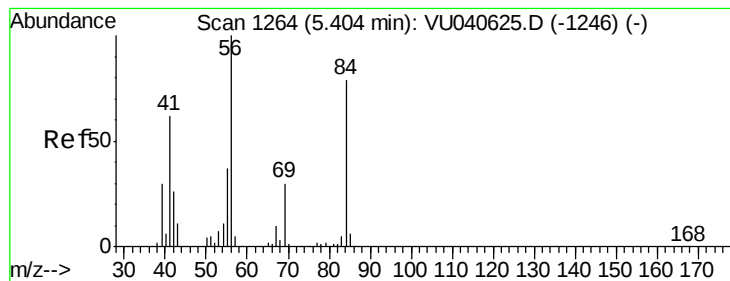
Tot Ion: 83 Resp: 13454
Ion Ratio Lower Upper
83 100
85 66.6 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.418 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.01 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion: 62 Resp: 7971
Ion Ratio Lower Upper
62 100
98 8.3 7.1 10.7





#29

Cyclohexane

Concen: 1.859 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-05

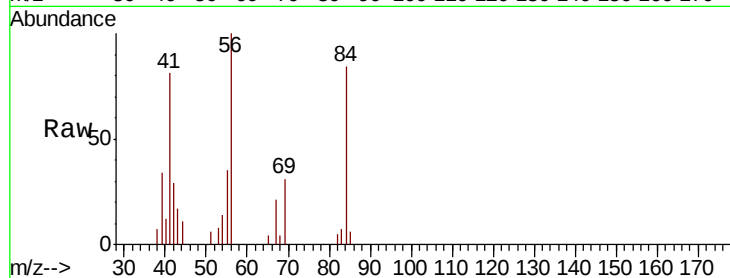
Tot Ion: 56 Resp: 6409

Ion Ratio Lower Upper

56 100

69 20.8 22.6 34.0#

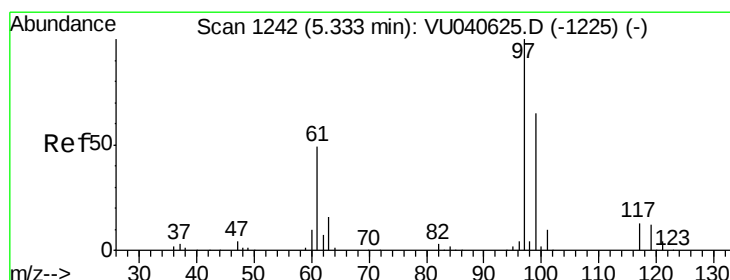
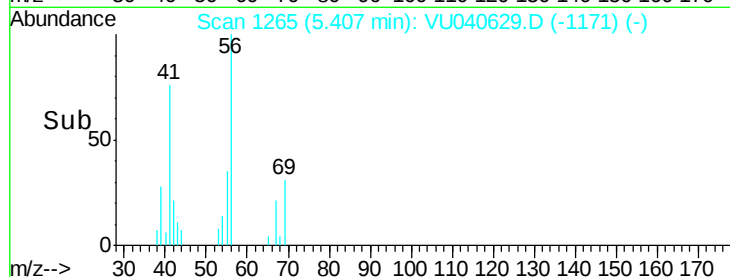
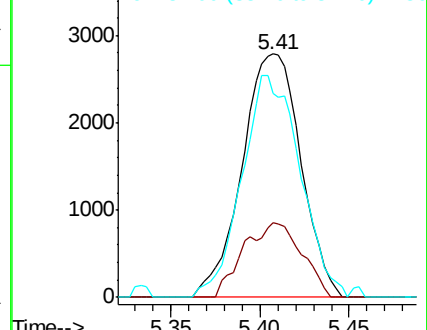
84 57.5 63.1 94.7#



Abundance Ion 56.00 (55.70 to 56.70): VU040629.D (-1171) (-)

Ion 69.00 (68.70 to 69.70): VU040629.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU040629.D (-1171) (-)



#30

1,1,1-Trichloroethane

Concen: 2.380 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

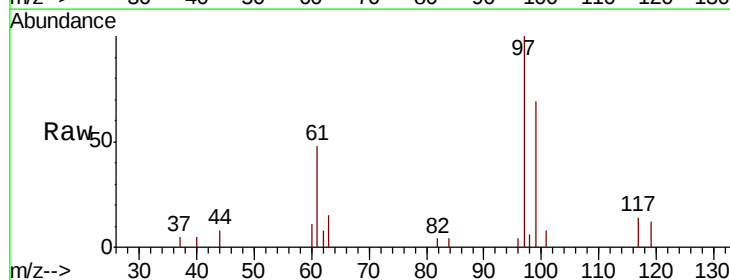
Tgt Ion: 97 Resp: 7870

Ion Ratio Lower Upper

97 100

99 63.2 51.0 76.6

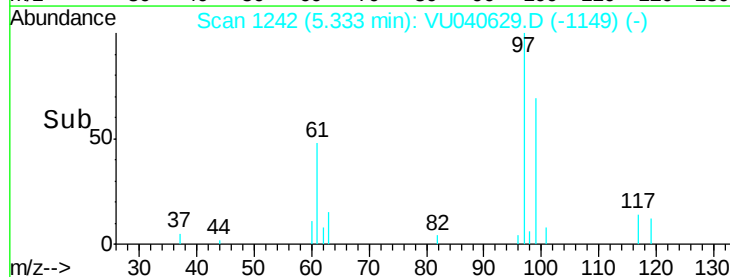
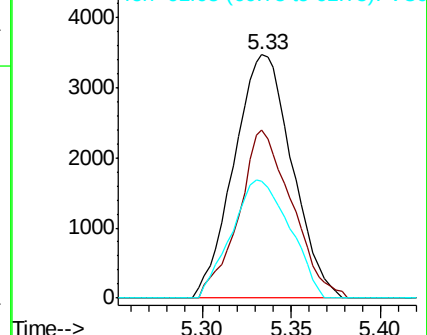
61 48.8 39.4 59.2

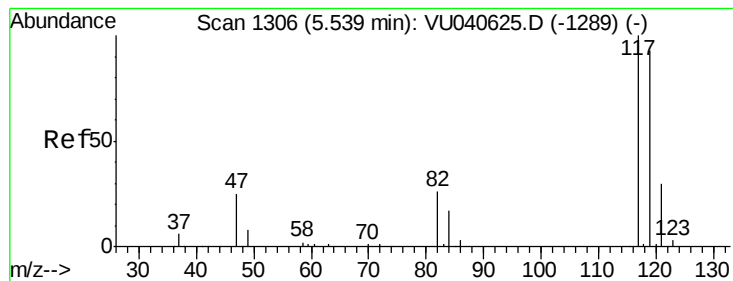


Abundance Ion 97.00 (96.70 to 97.70): VU040629.D (-1149) (-)

Ion 99.00 (98.70 to 99.70): VU040629.D (-1149) (-)

Ion 61.05 (60.75 to 61.75): VU040629.D (-1149) (-)





#31

Carbon tetrachloride

Concen: 2.252 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

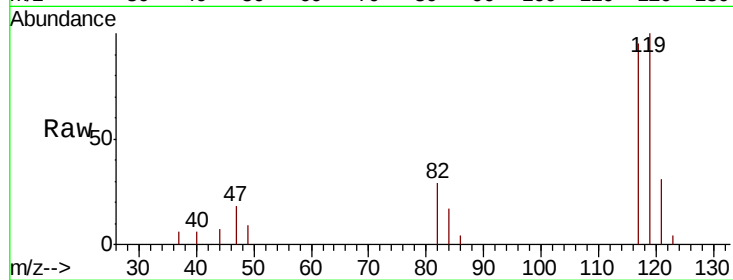
MDL-ME-SOIL-05

Tot Ion:117 Resp: 6438

Ion Ratio Lower Upper

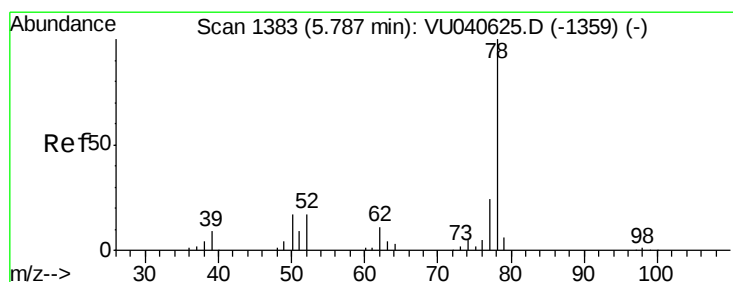
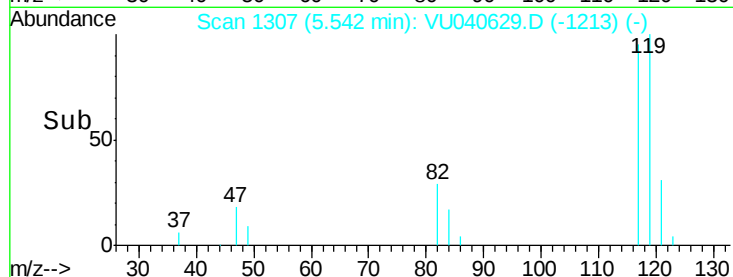
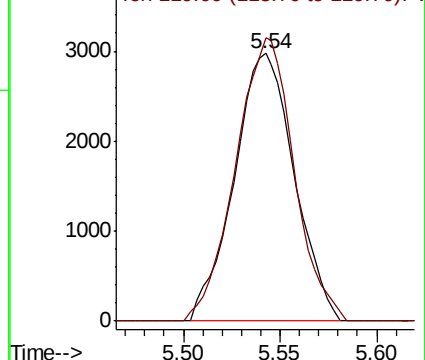
117 100

119 103.0 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.267 ug/L

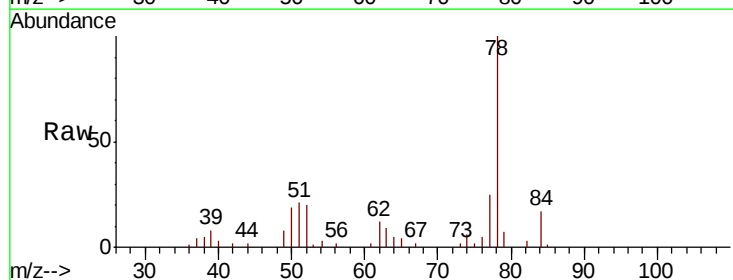
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

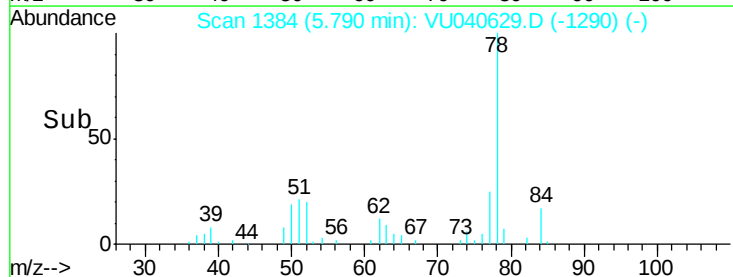
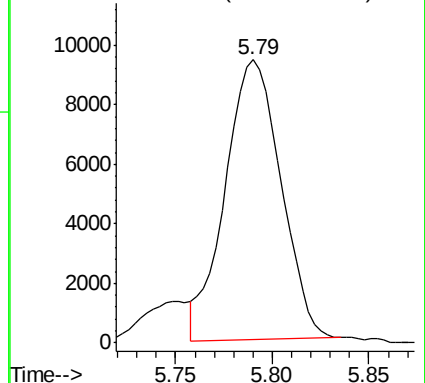
Lab File: VU040629.D

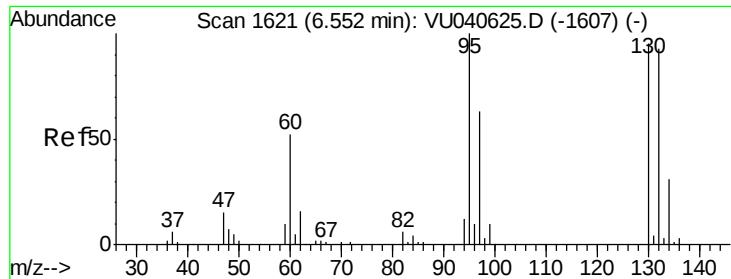
Acq: 10 Oct 2020 12:21

Tgt Ion: 78 Resp: 18863



Abundance Ion 78.00 (77.70 to 78.70): VU0

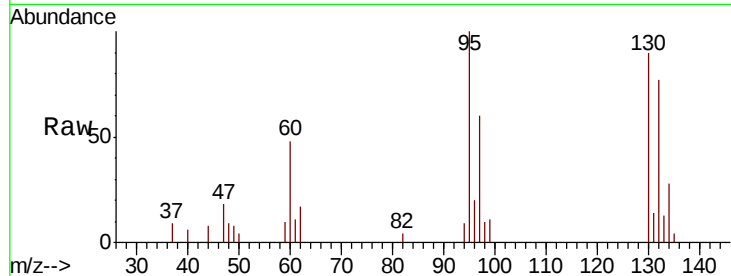




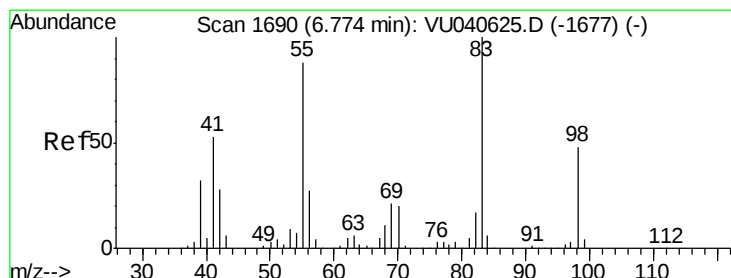
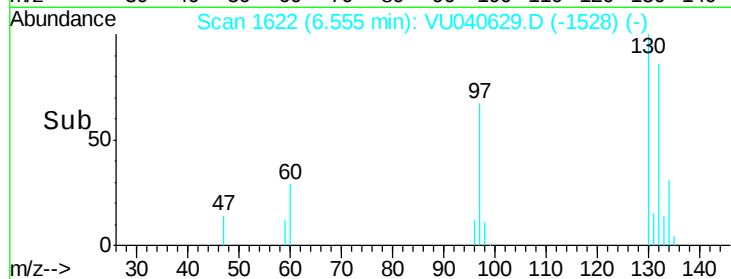
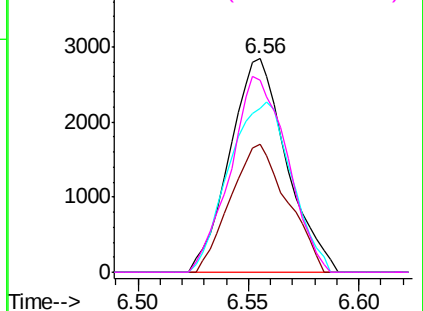
#34
 Trichloroethene
 Concen: 2.368 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion: 95 Resp: 5076
 Ion Ratio Lower Upper
 95 100
 97 59.9 44.3 82.3
 132 77.0 64.2 119.2
 130 90.0 67.3 125.1

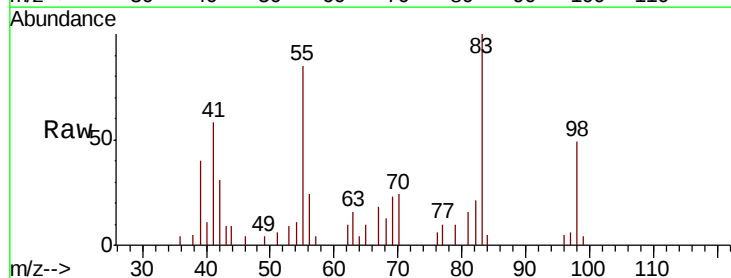


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

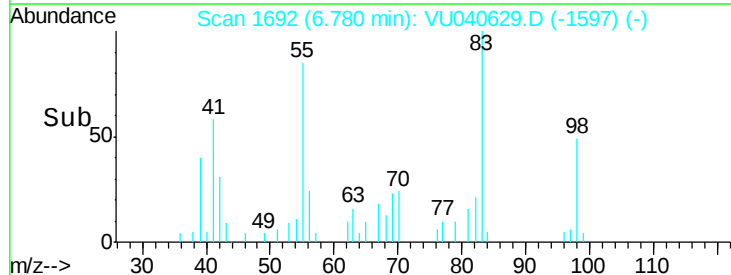
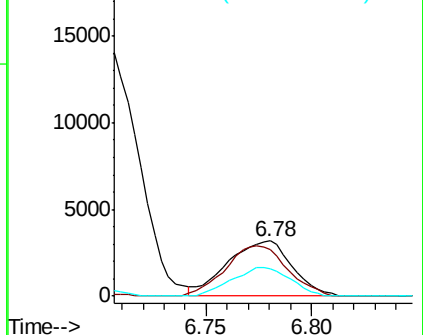


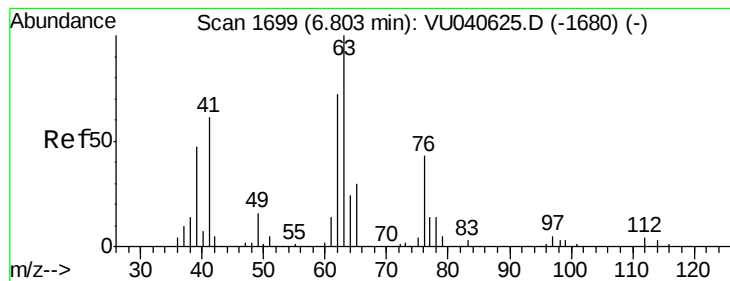
#35
 Methylcyclohexane
 Concen: 2.072 ug/L
 RT: 6.78 min Scan# 1692
 Delta R.T. 0.01 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion: 83 Resp: 6753
 Ion Ratio Lower Upper
 83 100
 55 87.3 69.8 104.8
 98 46.7 39.1 58.7



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 2.249 ug/L

RT: 6.81 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

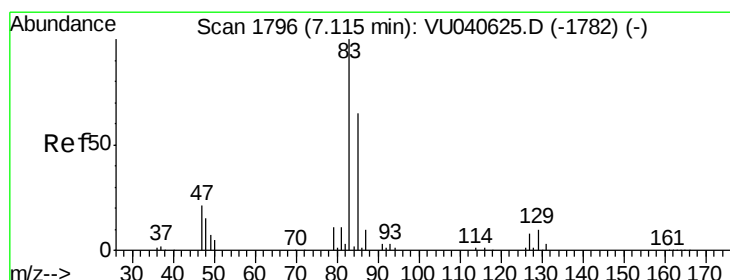
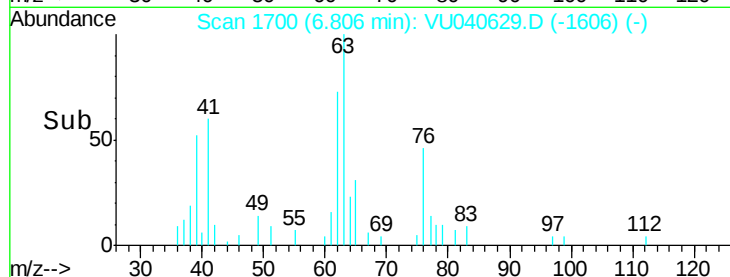
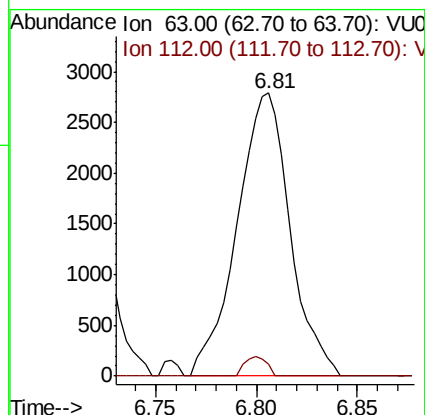
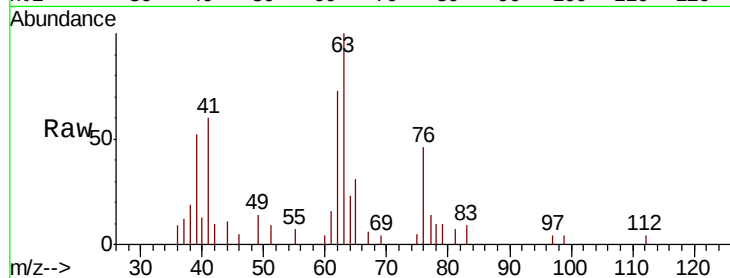
MDL-ME-SOIL-05

Tot Ion: 63 Resp: 5139

Ion Ratio Lower Upper

63 100

112 2.9 3.5 5.3#



#38

Bromodichloromethane

Concen: 2.264 ug/L

RT: 7.12 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

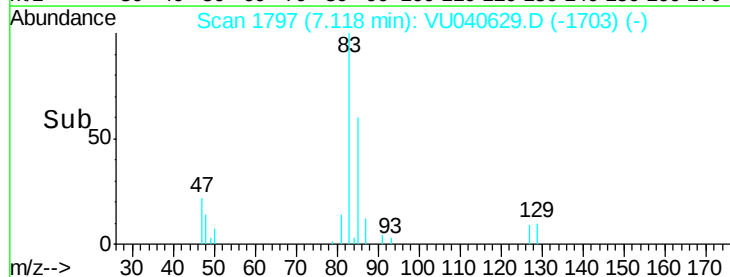
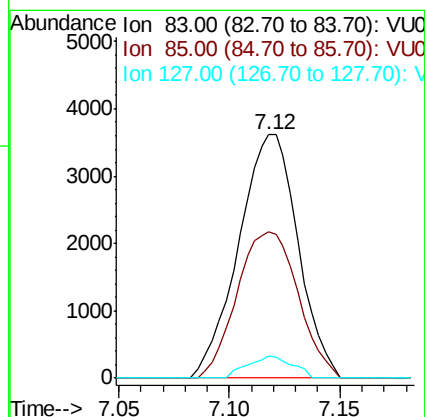
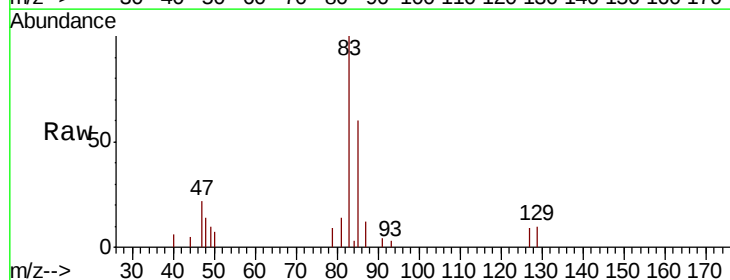
Tgt Ion: 83 Resp: 6721

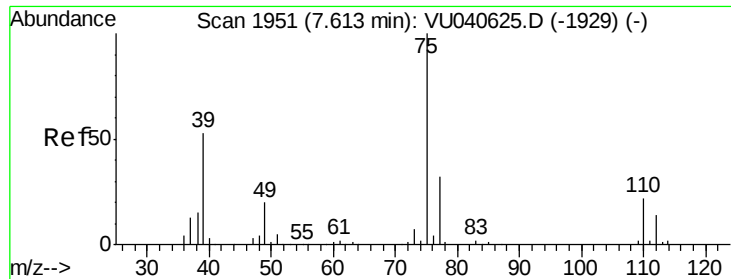
Ion Ratio Lower Upper

83 100

85 59.9 45.2 84.0

127 8.9 6.7 10.1

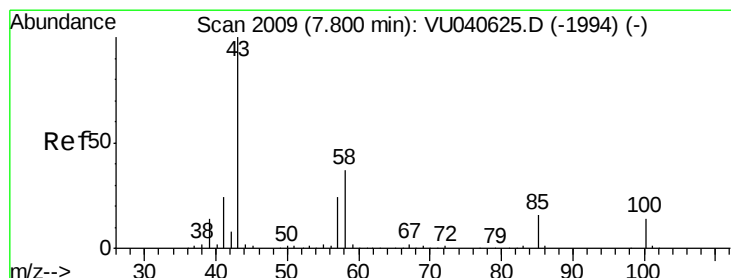
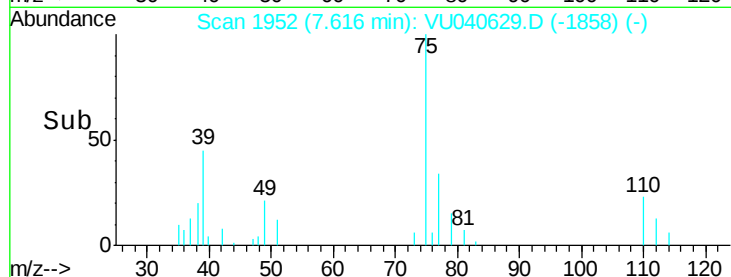
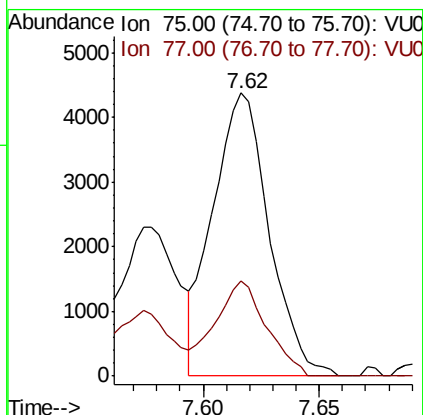
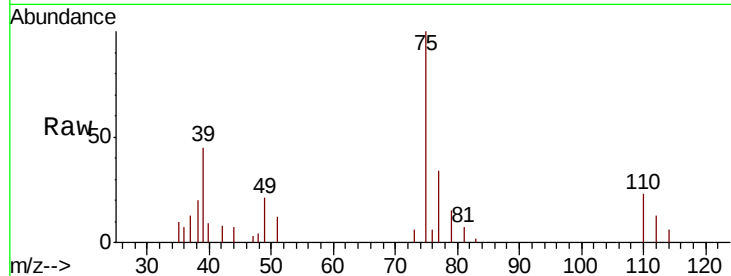




#39
 cis-1,3-Dichloropropene
 Concen: 2.199 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

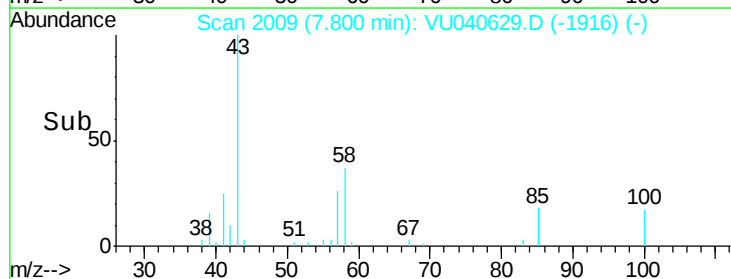
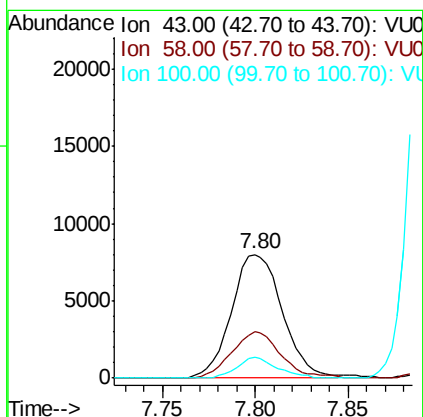
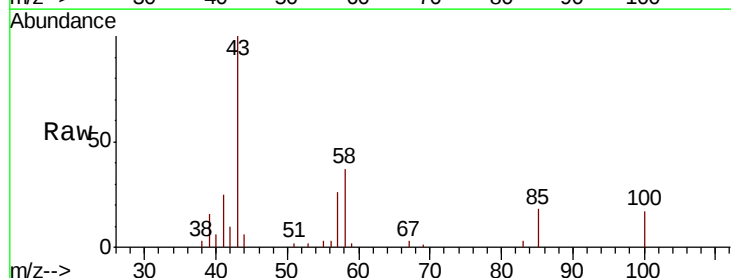
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

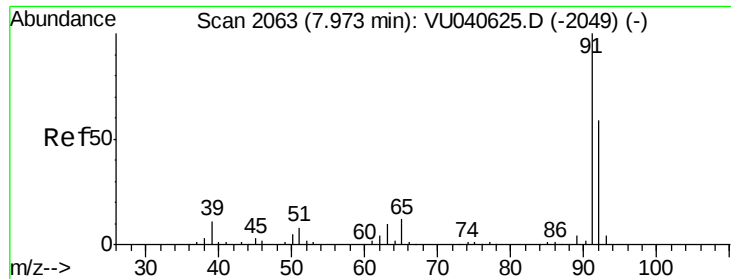
Tot Ion: 75 Resp: 7365
 Ion Ratio Lower Upper
 75 100
 77 33.8 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 4.230 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion: 43 Resp: 15252
 Ion Ratio Lower Upper
 43 100
 58 36.0 29.7 44.5
 100 13.2 10.5 15.7





#42

Toluene

Concen: 2.205 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

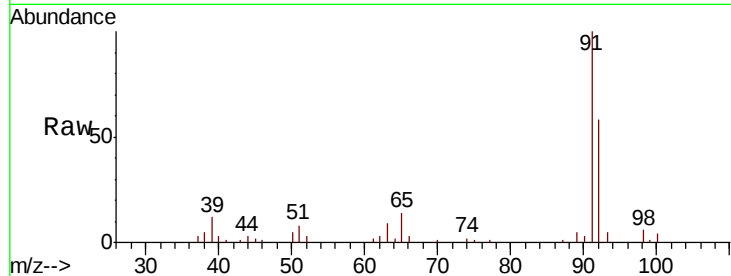
MDL-ME-SOIL-05

Tot Ion: 91 Resp: 18731

Ion Ratio Lower Upper

91 100

92 58.2 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.98

12000

10000

8000

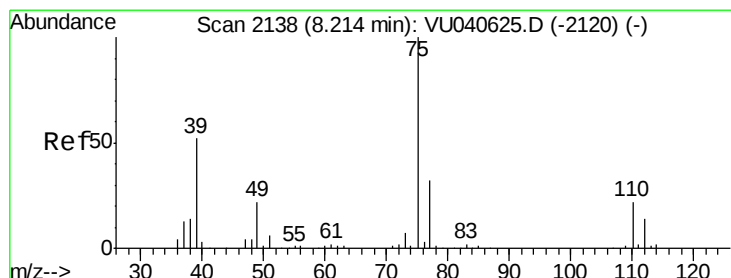
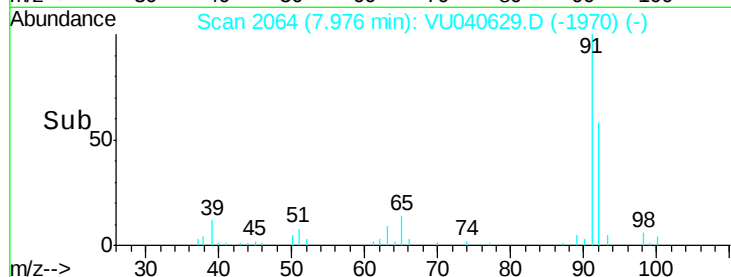
6000

4000

2000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.161 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040629.D

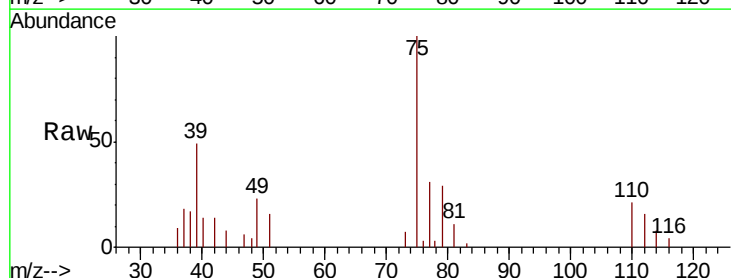
Acq: 10 Oct 2020 12:21

Tgt Ion: 75 Resp: 7286

Ion Ratio Lower Upper

75 100

77 31.0 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

8.22

5000

4000

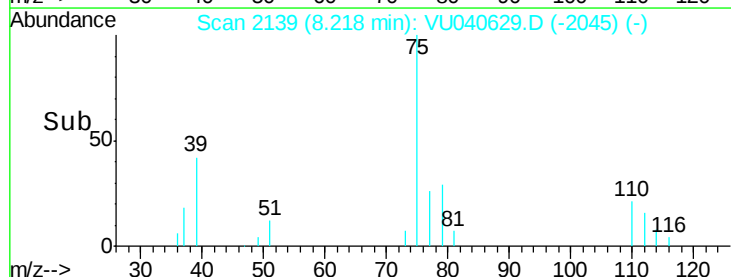
3000

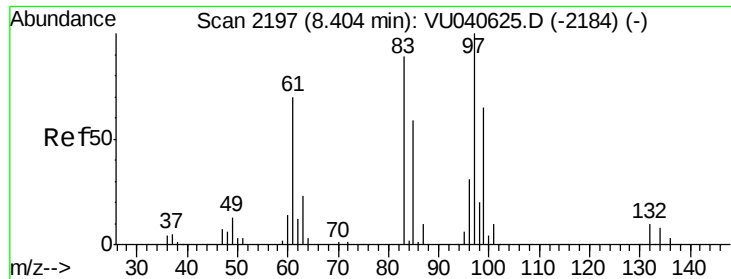
2000

1000

0

Time-->

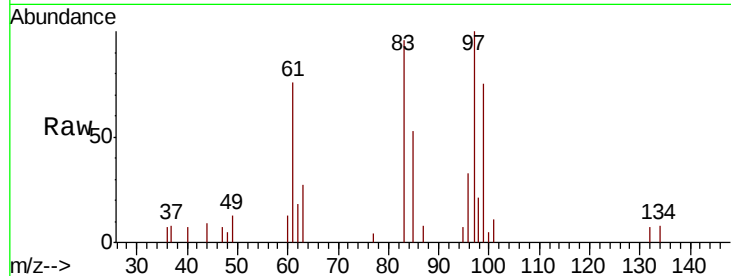




#45
1,1,2-Trichloroethane
Concen: 2.285 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion:	97	Resp:	4677
Ion	Ratio	Lower	Upper
97	100		
99	74.6	42.7	79.3
83	96.1	61.0	113.4
85	52.5	39.8	73.8



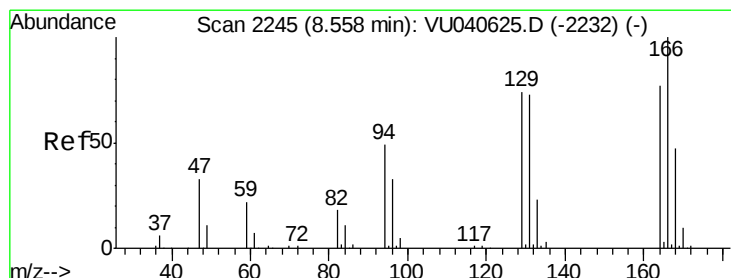
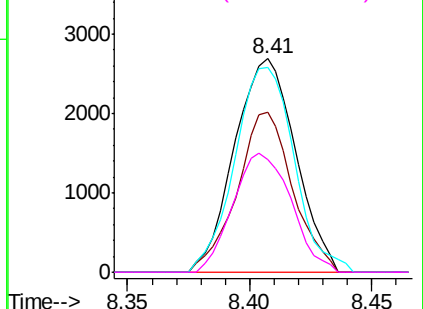
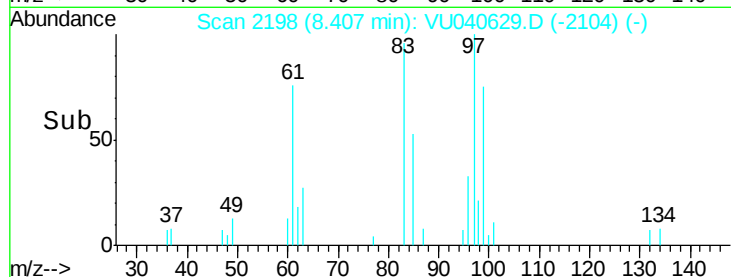
Abundance

Ion 97.00 (96.70 to 97.70): VU040629.D (-2104) (-)

Ion 99.00 (98.70 to 99.70): VU040629.D (-2104) (-)

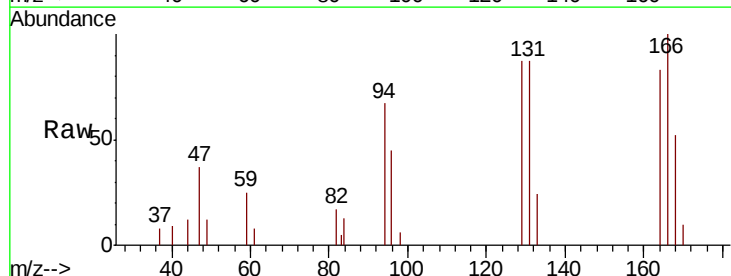
Ion 83.00 (82.70 to 83.70): VU040629.D (-2104) (-)

Ion 85.00 (84.70 to 85.70): VU040629.D (-2104) (-)



#46
Tetrachloroethene
Concen: 2.239 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion:	164	Resp:	3468
Ion	Ratio	Lower	Upper
164	100		
129	105.3	67.4	125.2
131	104.7	63.8	118.6
166	120.6	88.7	164.7



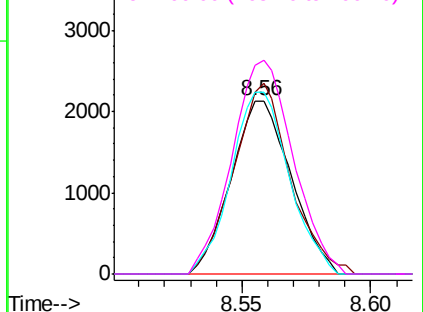
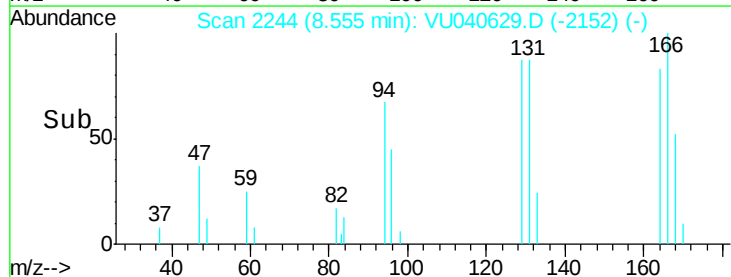
Abundance

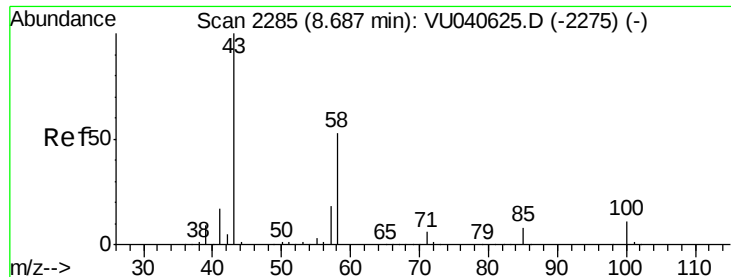
Ion 164.00 (163.70 to 164.70): VU040629.D (-2152) (-)

Ion 129.00 (128.70 to 129.70): VU040629.D (-2152) (-)

Ion 131.00 (130.70 to 131.70): VU040629.D (-2152) (-)

Ion 166.00 (165.70 to 166.70): VU040629.D (-2152) (-)

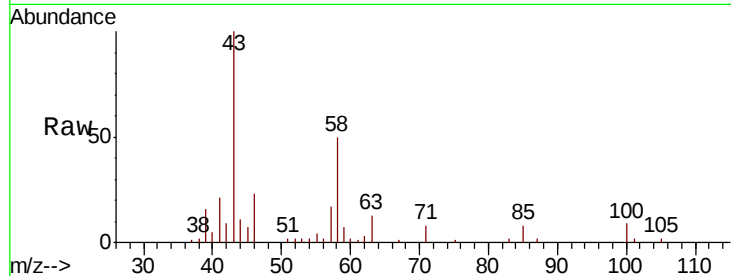




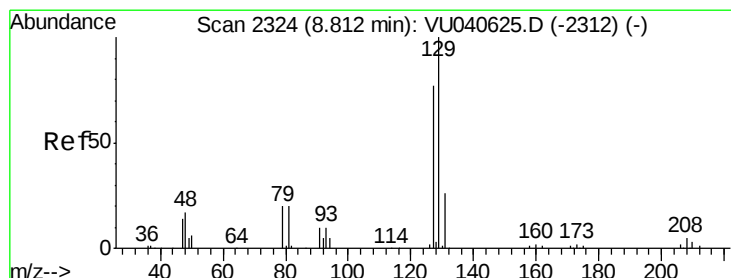
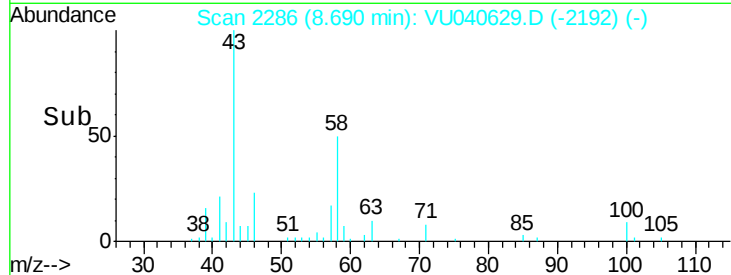
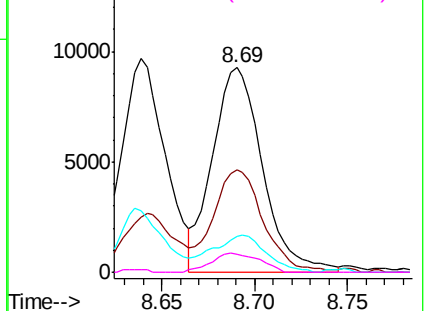
#48
2-Hexanone
Concen: 5.953 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 17447
Ion Ratio Lower Upper
43 100
58 49.9 40.6 60.8
57 19.7 14.3 21.5
100 9.0 8.5 12.7

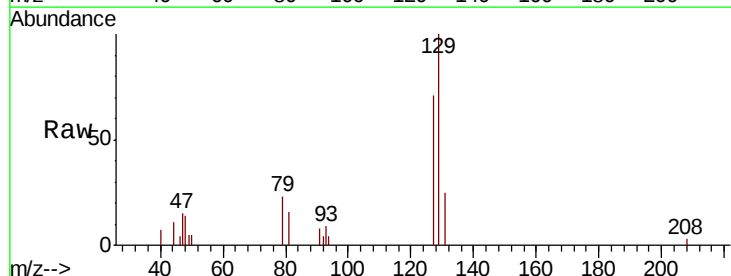


Abundance Ion 43.00 (42.70 to 43.70): VU040629.D (-2192) (-)
Ion 58.00 (57.70 to 58.70): VU040629.D (-2192) (-)
Ion 57.00 (56.70 to 57.70): VU040629.D (-2192) (-)
Ion 100.00 (99.70 to 100.70): VU040629.D (-2192) (-)

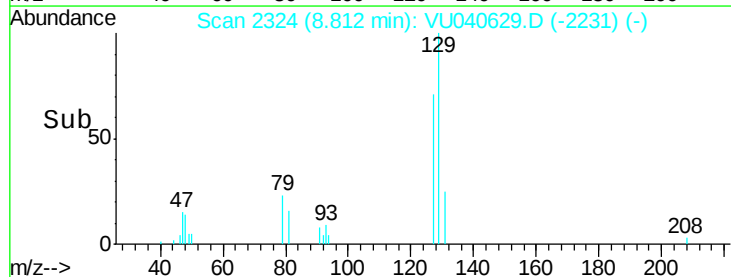
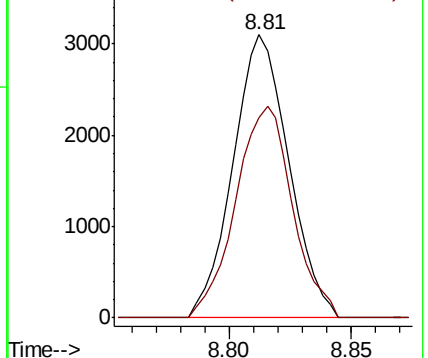


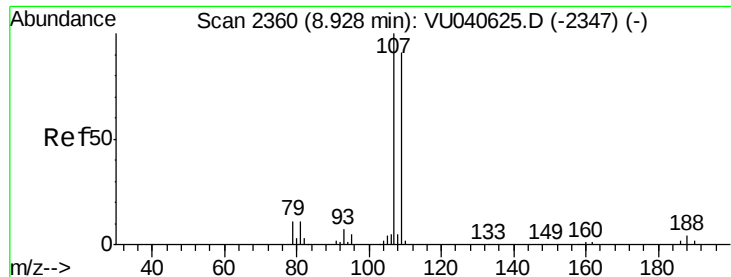
#49
Dibromochloromethane
Concen: 2.200 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion: 129 Resp: 4917
Ion Ratio Lower Upper
129 100
127 70.7 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VU040629.D (-2231) (-)
Ion 127.00 (126.70 to 127.70): VU040629.D (-2231) (-)

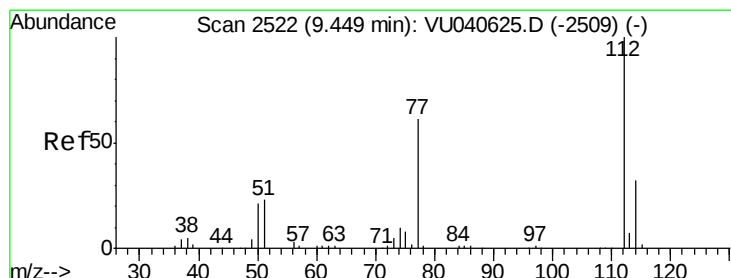
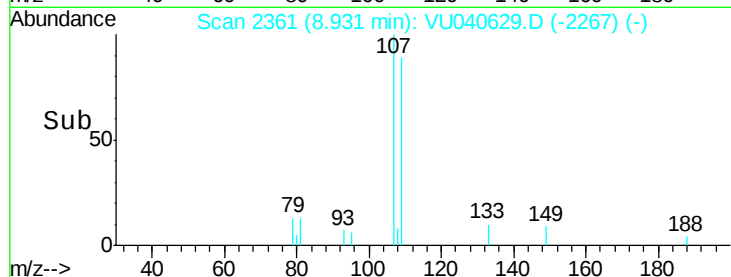
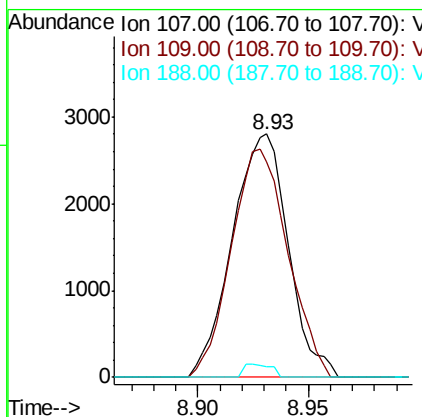
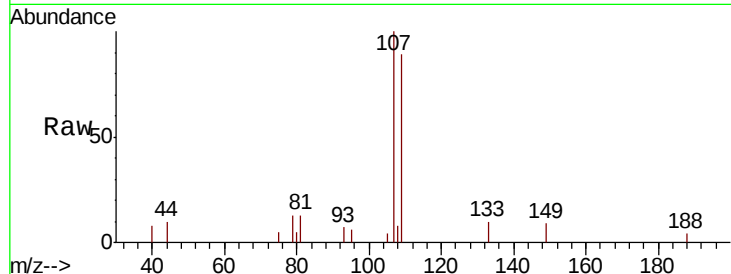




#50
 1,2-Dibromoethane
 Concen: 2.272 ug/L
 RT: 8.93 min Scan# 2361
 Delta R.T. 0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

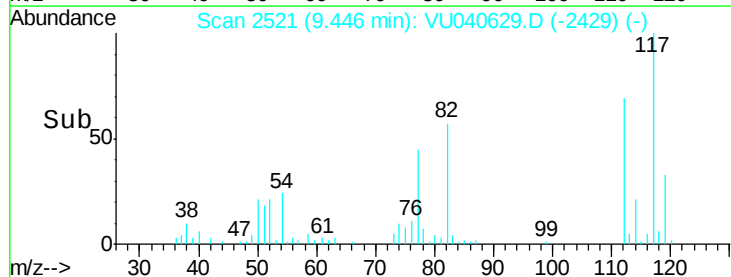
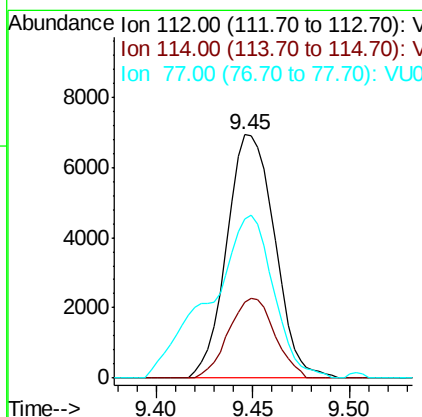
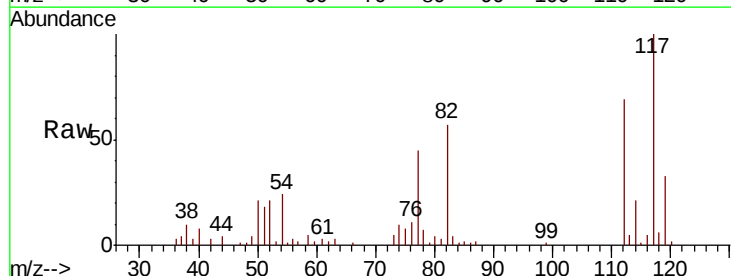
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

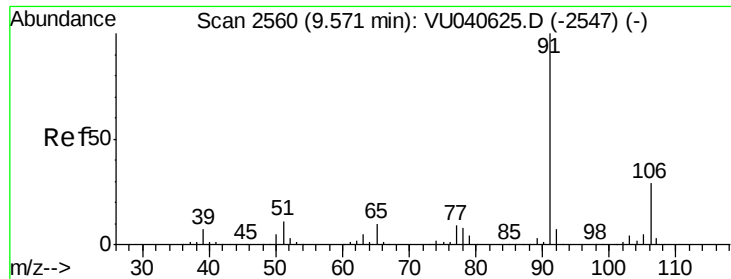
Tot Ion:107 Resp: 4930
 Ion Ratio Lower Upper
 107 100
 109 88.6 67.8 125.8
 188 4.3 2.8 4.2#



#51
 Chlorobenzene
 Concen: 2.150 ug/L
 RT: 9.45 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion:112 Resp: 11979
 Ion Ratio Lower Upper
 112 100
 114 31.0 22.1 41.1
 77 65.4 50.4 75.6





#52

Ethylbenzene

Concen: 2.024 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

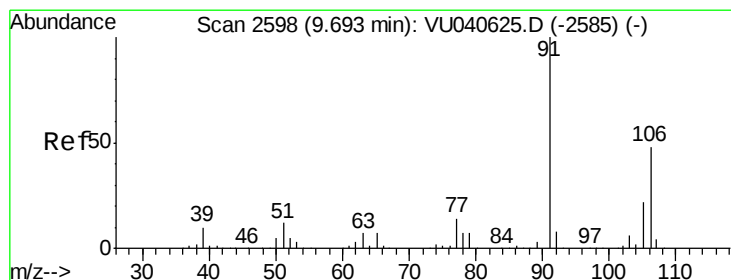
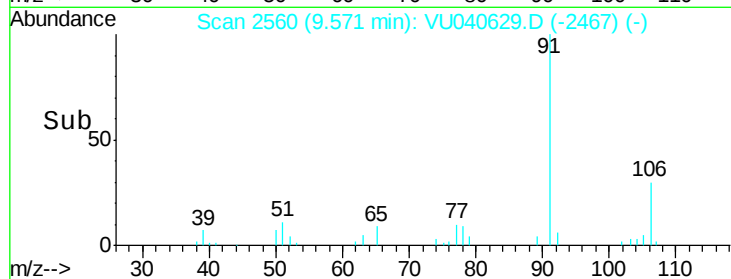
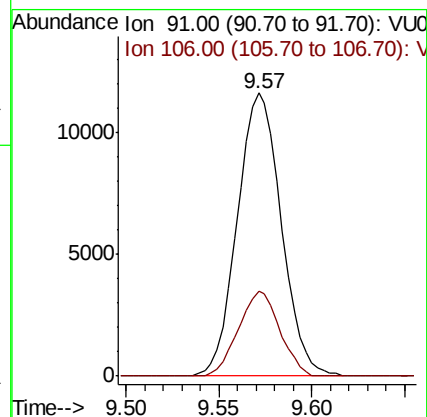
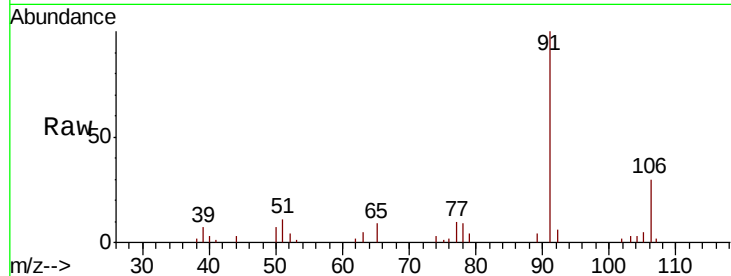
MDL-ME-SOIL-05

Tot Ion: 91 Resp: 19085

Ion Ratio Lower Upper

91 100

106 29.9 20.9 38.9



#53

m,p-Xylene

Concen: 1.872 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040629.D

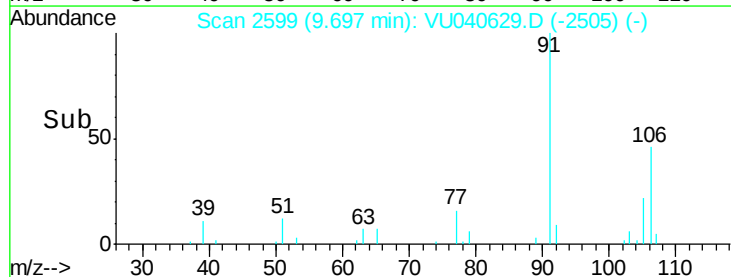
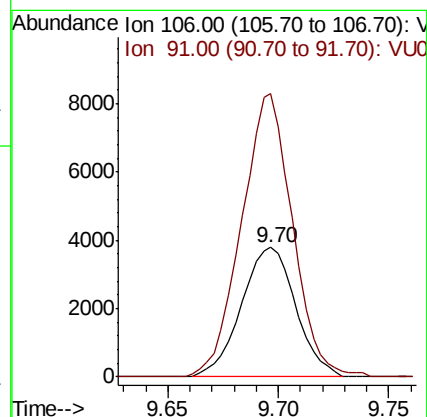
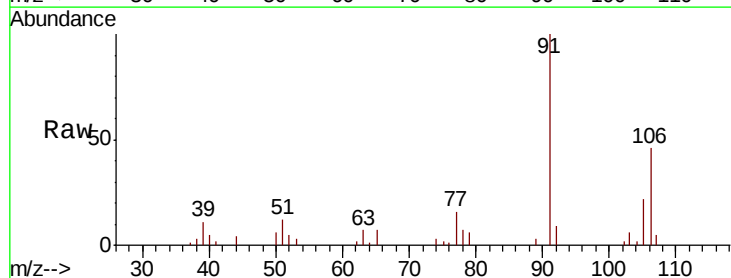
Acq: 10 Oct 2020 12:21

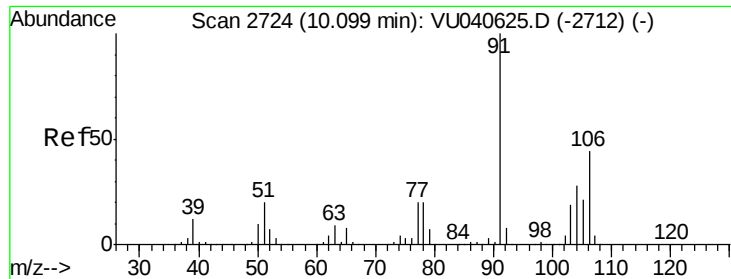
Tgt Ion: 106 Resp: 6502

Ion Ratio Lower Upper

106 100

91 218.4 150.1 278.7

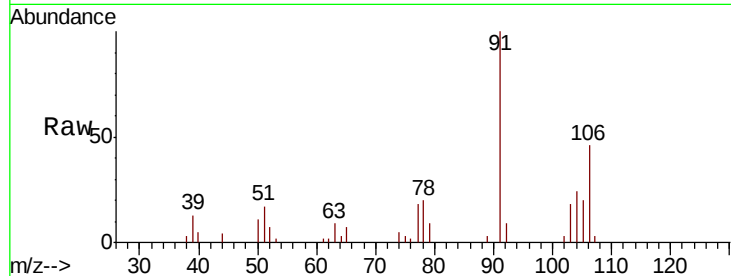




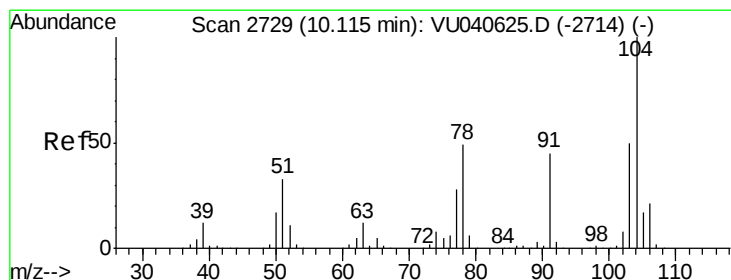
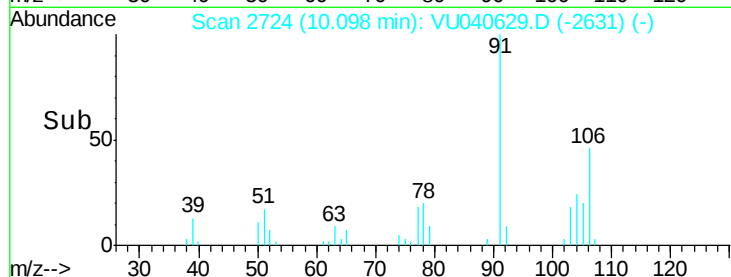
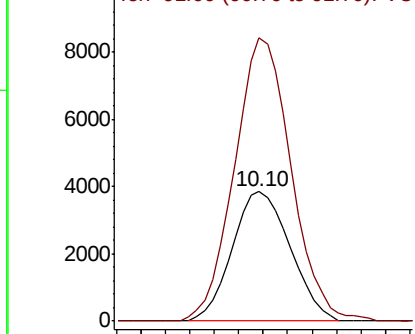
#54
o-xylene
Concen: 1.923 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion:106 Resp: 6354
Ion Ratio Lower Upper
106 100
91 218.8 155.6 289.0

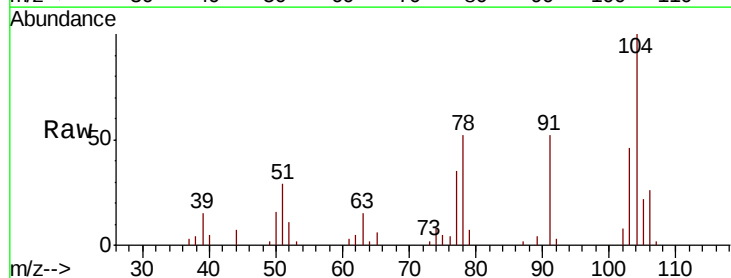


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

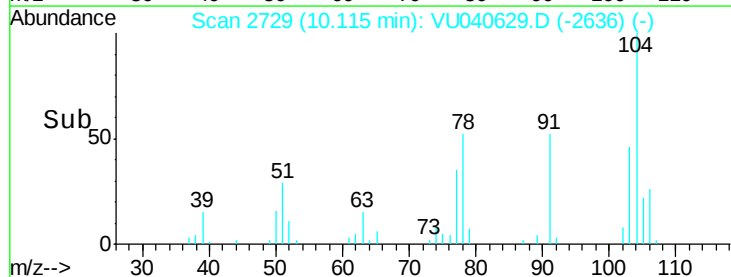
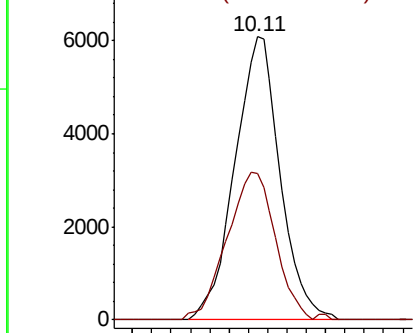


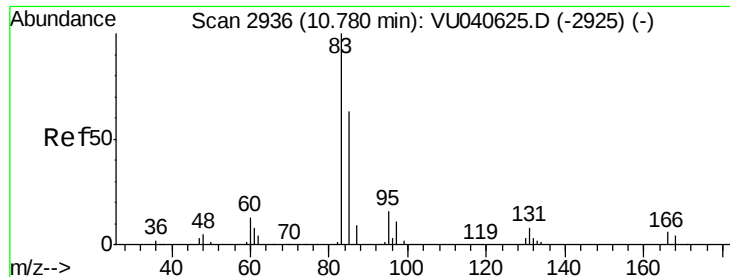
#55
Styrene
Concen: 1.704 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion:104 Resp: 9913
Ion Ratio Lower Upper
104 100
78 51.7 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0

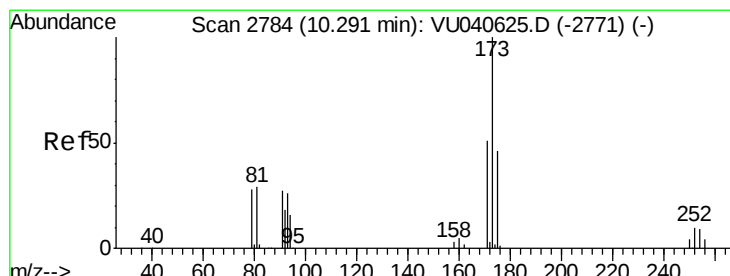
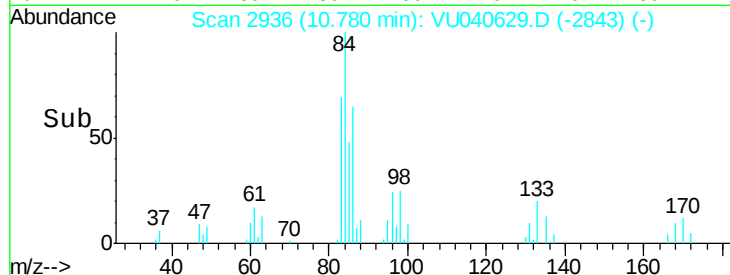
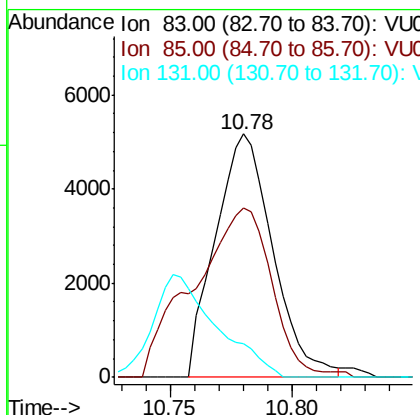
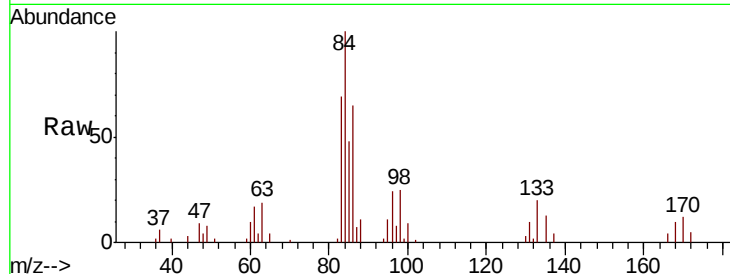




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.329 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

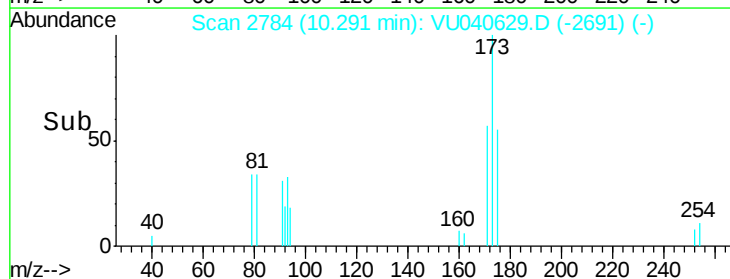
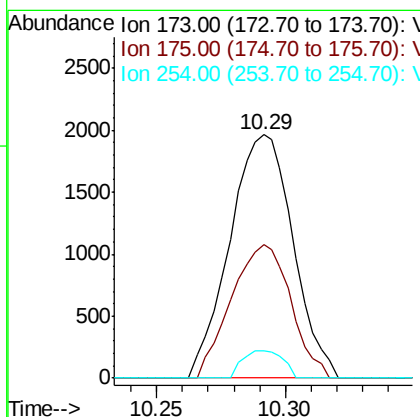
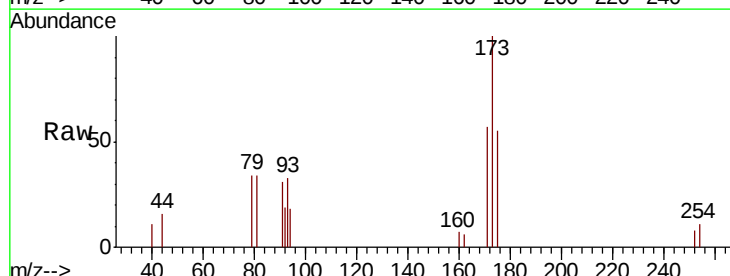
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

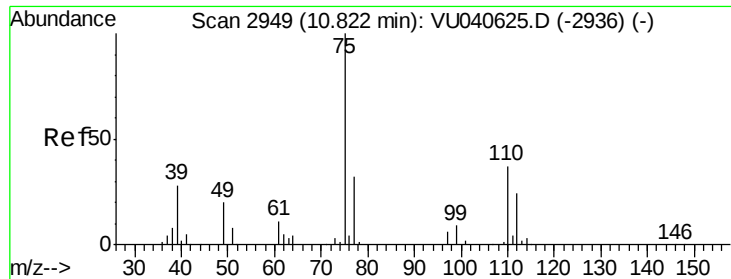
Tot Ion: 83 Resp: 8432
 Ion Ratio Lower Upper
 83 100
 85 69.6 44.2 82.2
 131 13.8 7.1 10.7#



#59
 Bromoform
 Concen: 2.225 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion: 173 Resp: 3356
 Ion Ratio Lower Upper
 173 100
 175 51.7 38.5 57.7
 254 7.2 7.0 10.6

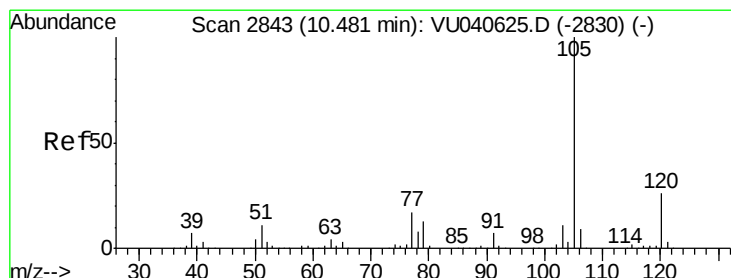
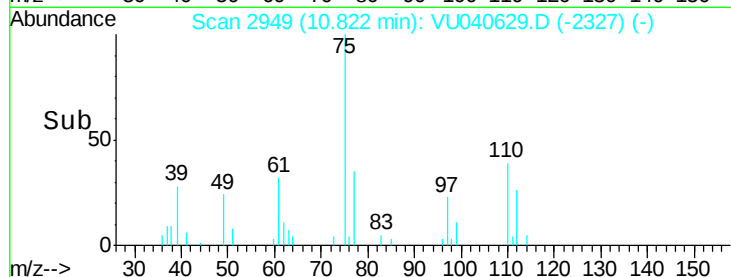
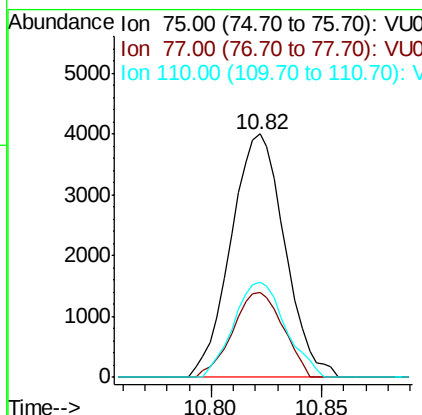
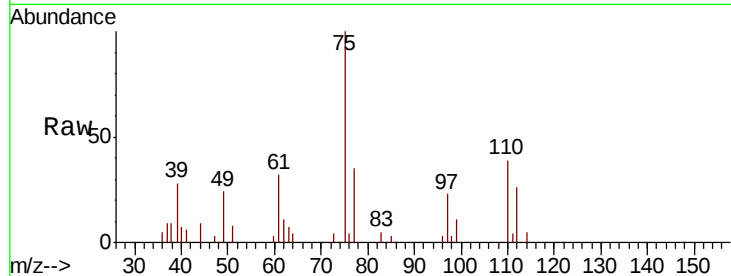




#60
 1,2,3-Trichloropropane
 Concen: 2.427 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

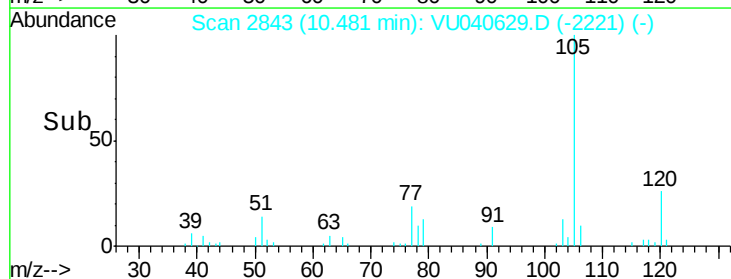
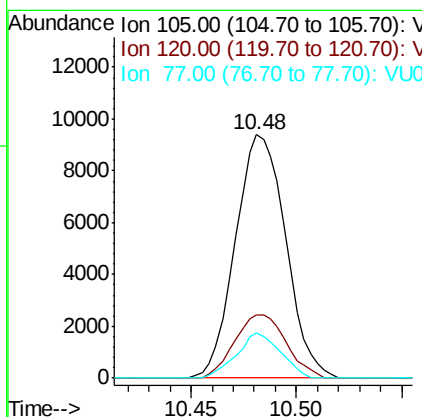
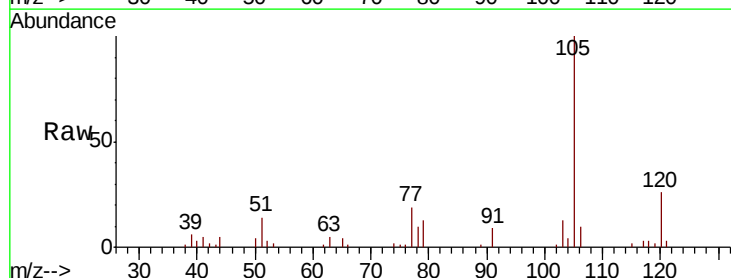
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

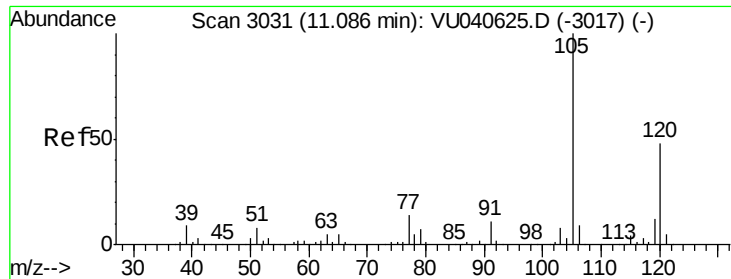
Tot Ion: 75 Resp: 6786
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.4 39.6
 110 37.7 30.1 45.1



#61
 Isopropylbenzene
 Concen: 1.884 ug/L
 RT: 10.48 min Scan# 2843
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion: 105 Resp: 15572
 Ion Ratio Lower Upper
 105 100
 120 26.7 20.7 31.1
 77 16.2 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 1.684 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040629.D

Acq: 10 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

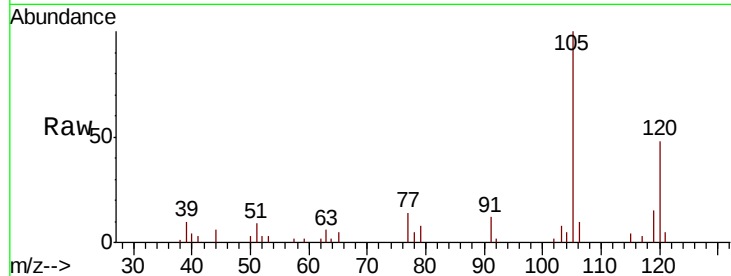
MDL-ME-SOIL-05

Tot Ion:105 Resp: 11434

Ion Ratio Lower Upper

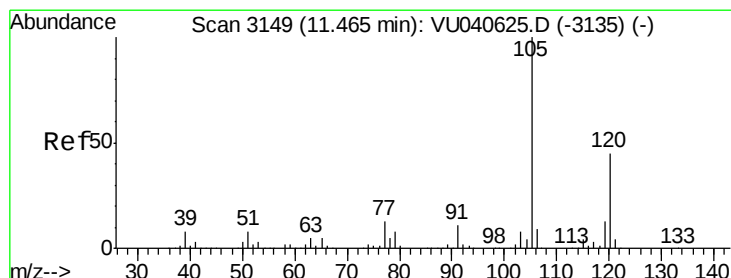
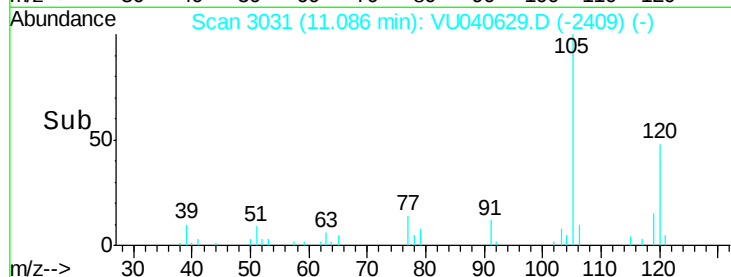
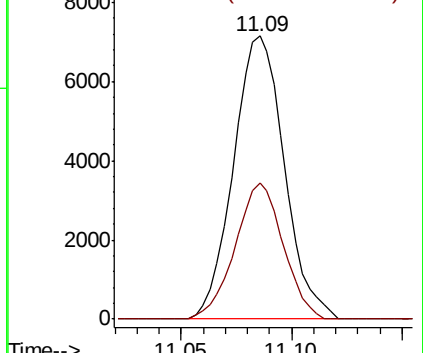
105 100

120 45.5 38.6 58.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 1.610 ug/L

RT: 11.46 min Scan# 3148

Delta R.T. -0.00 min

Lab File: VU040629.D

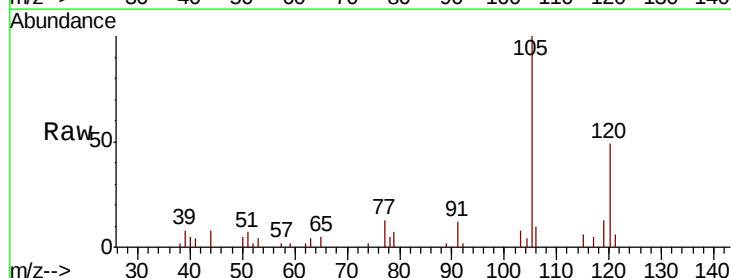
Acq: 10 Oct 2020 12:21

Tgt Ion:105 Resp: 11086

Ion Ratio Lower Upper

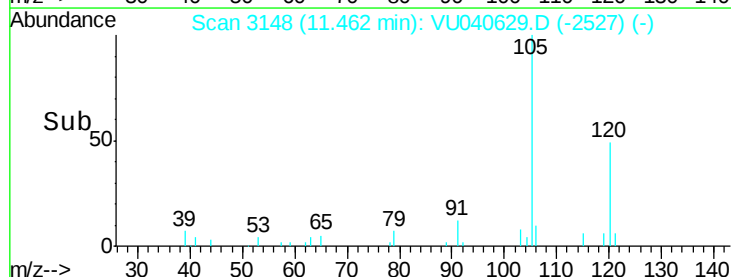
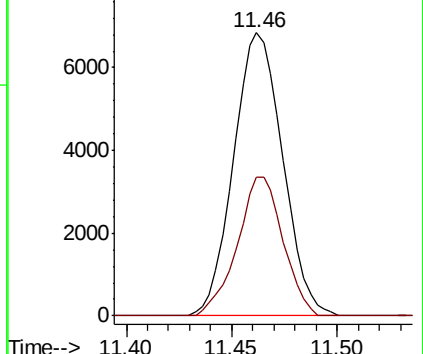
105 100

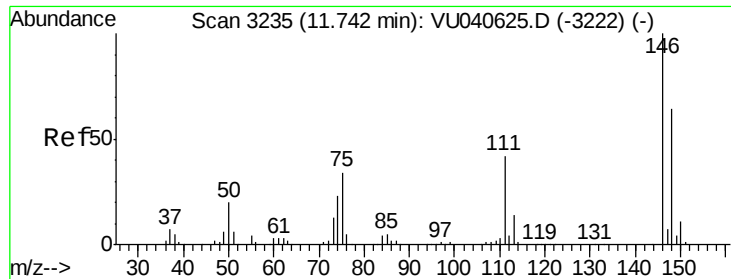
120 45.5 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

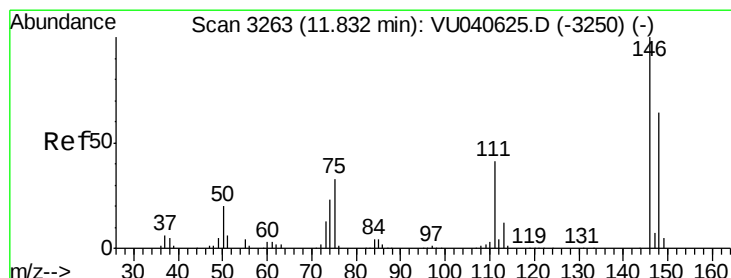
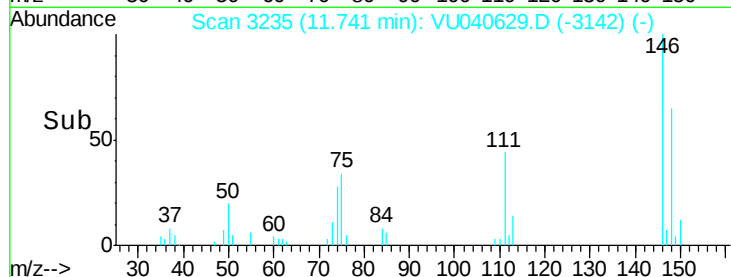
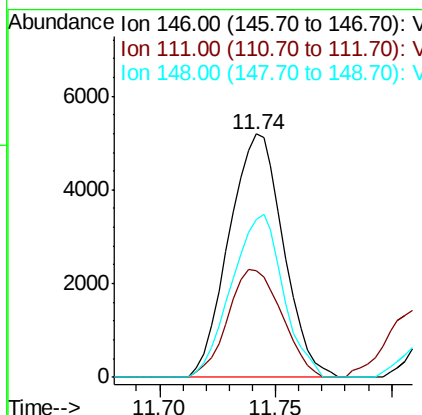
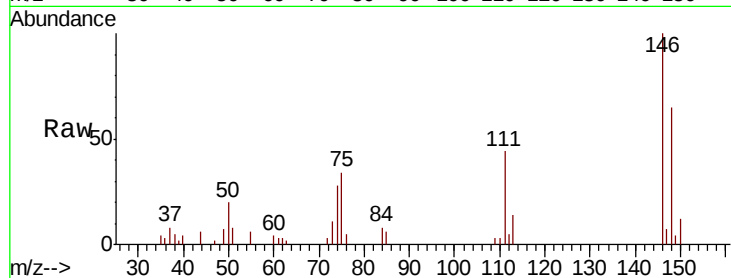




#64
 1,3-Dichlorobenzene
 Concen: 2.098 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

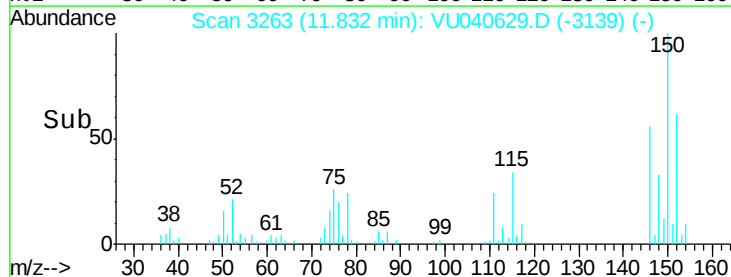
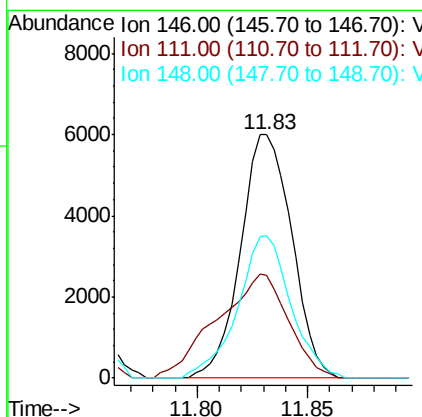
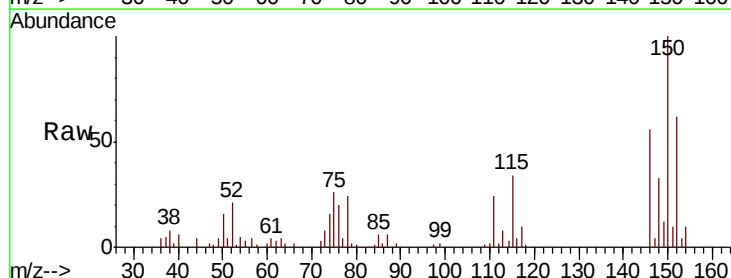
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

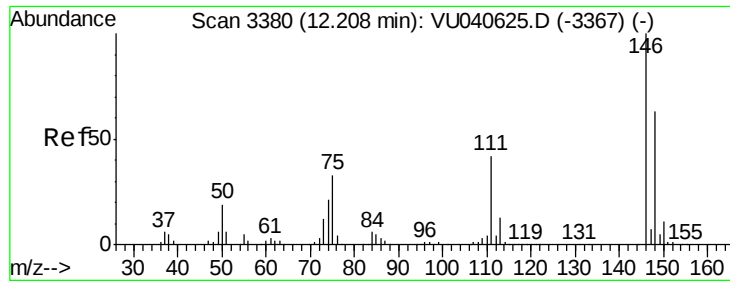
Tot Ion:146 Resp: 8458
 Ion Ratio Lower Upper
 146 100
 111 43.9 30.8 57.2
 148 65.1 45.4 84.2



#65
 1,4-Dichlorobenzene
 Concen: 2.283 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion:146 Resp: 9664
 Ion Ratio Lower Upper
 146 100
 111 42.0 28.7 53.3
 148 58.7 44.1 81.9

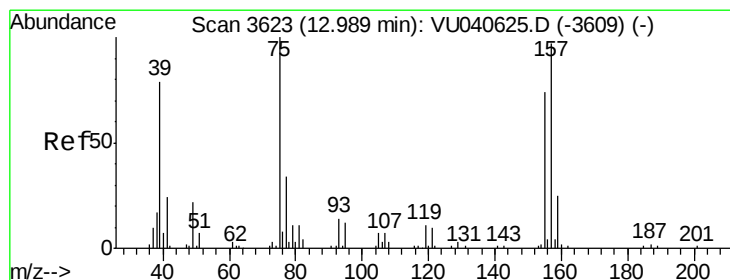
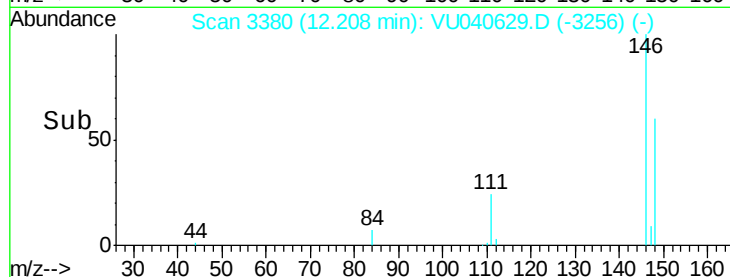
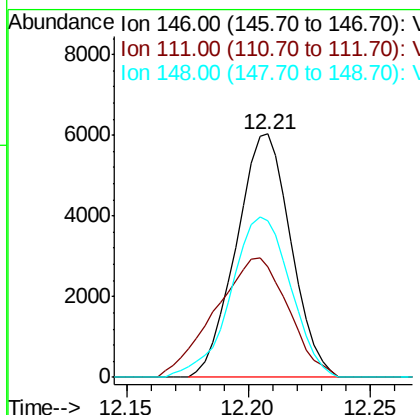
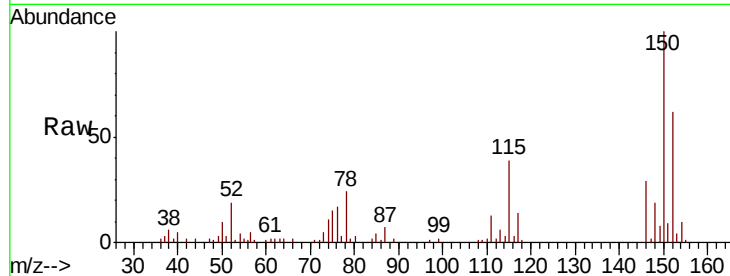




#67
 1,2-Dichlorobenzene
 Concen: 2.322 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

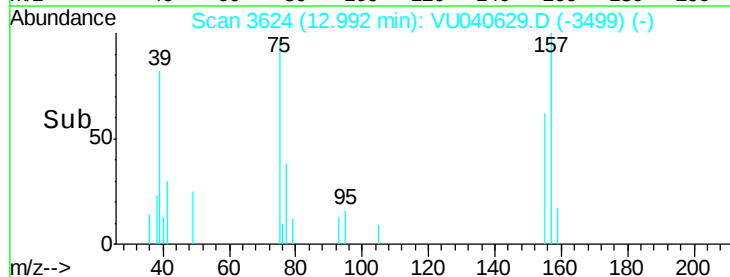
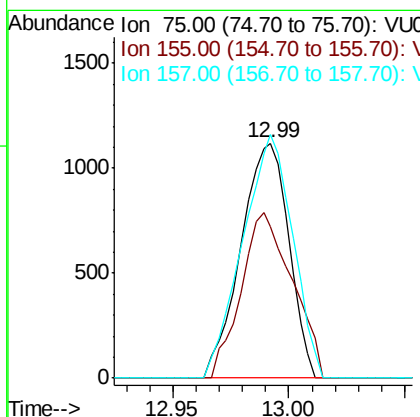
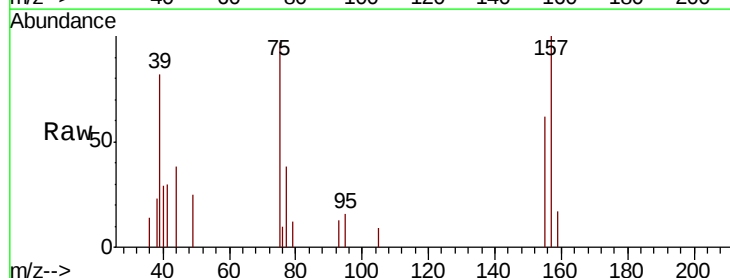
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

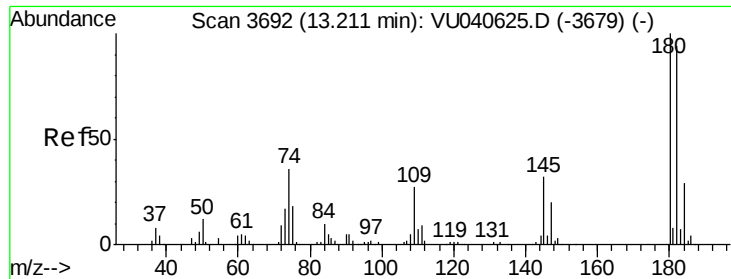
Tot Ion:146 Resp: 9375
 Ion Ratio Lower Upper
 146 100
 111 45.2 35.7 53.5
 148 64.6 50.6 75.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.044 ug/L
 RT: 12.99 min Scan# 3624
 Delta R.T. 0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion: 75 Resp: 1606
 Ion Ratio Lower Upper
 75 100
 155 64.2 61.0 91.6
 157 103.5 73.5 110.3

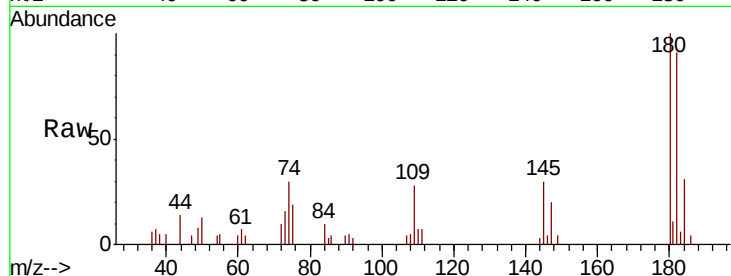




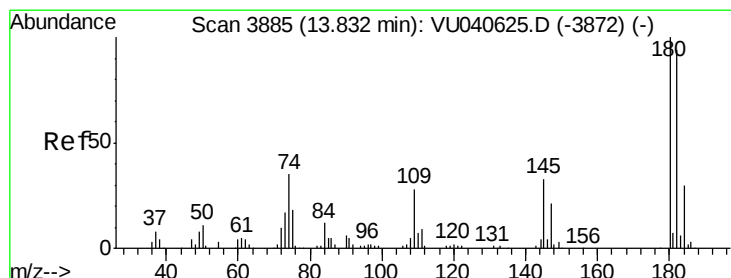
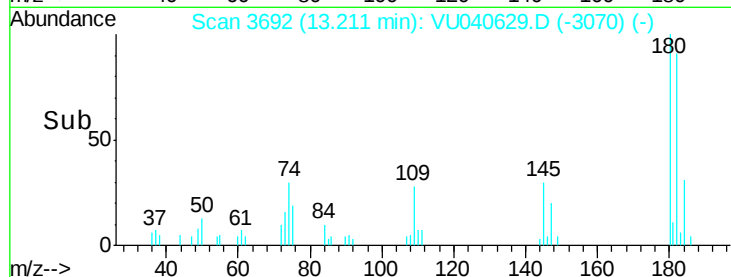
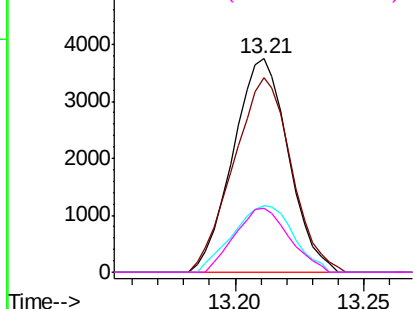
#69
 1,3,5-Trichlorobenzene
 Concen: 2.120 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion:180 Resp: 5598
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.9 115.3
 184 34.0 24.2 36.2
 145 29.4 25.4 38.2

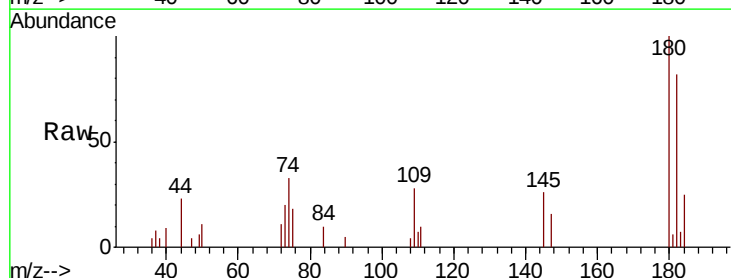


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

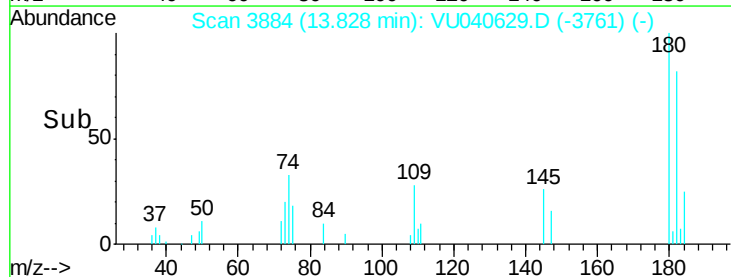
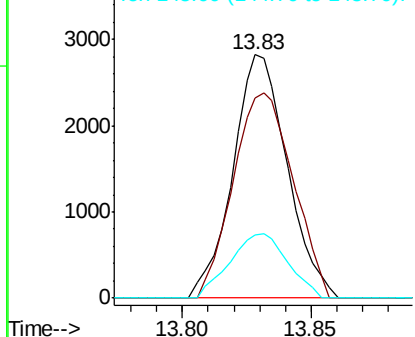


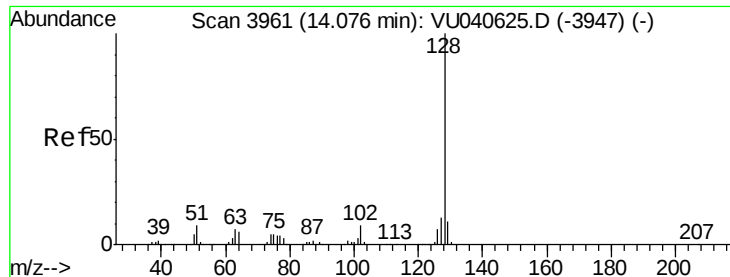
#70
 1,2,4-trichlorobenzene
 Concen: 1.814 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040629.D
 Acq: 10 Oct 2020 12:21

Tgt Ion:180 Resp: 4153
 Ion Ratio Lower Upper
 180 100
 182 93.0 75.0 112.6
 145 28.1 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

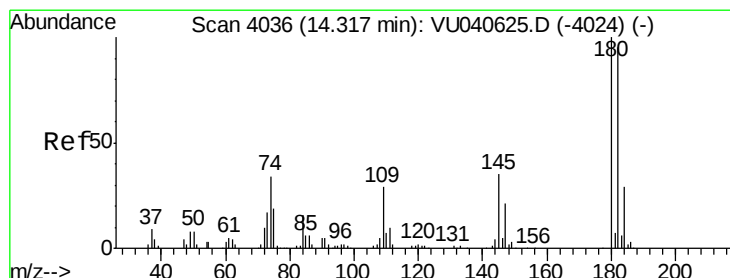
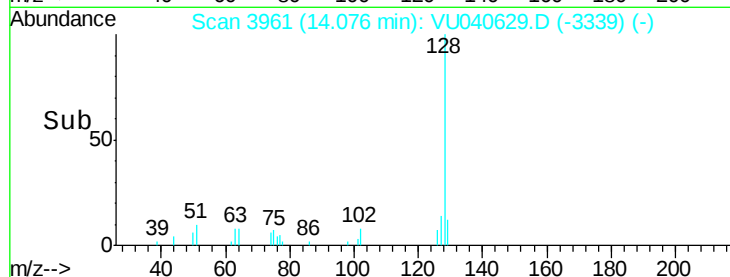
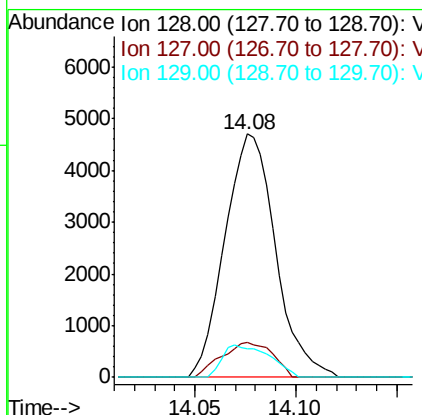
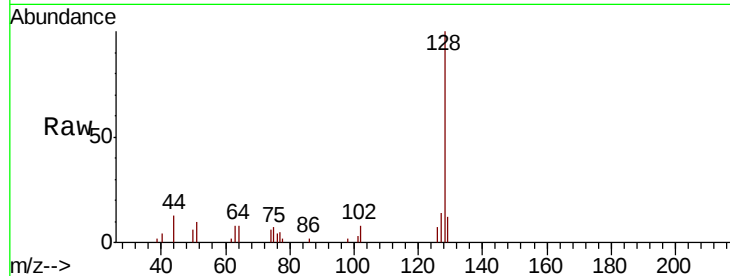




#71
Naphthalene
Concen: 1.166 ug/L
RT: 14.08 min Scan# 3961
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion:128 Resp: 8250
Ion Ratio Lower Upper
128 100
127 14.3 10.5 15.7
129 12.2 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 1.758 ug/L
RT: 14.32 min Scan# 4036
Delta R.T. -0.00 min
Lab File: VU040629.D
Acq: 10 Oct 2020 12:21

Tgt Ion:180 Resp: 3995
Ion Ratio Lower Upper
180 100
182 92.6 77.7 116.5
145 32.0 28.4 42.6

