

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110920\
 Data File : VV019309.D
 Acq On : 09 Nov 2020 17:59
 Operator : SY/MD
 Sample : L4485-19
 Misc : 5.0µL/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 9 Sample Multiplier: 1

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

Quant Time: Nov 10 13:12:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 10 06:58:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	246858	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	238913	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	118118	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	73092	38.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.74%
7) Chloroethane-d5	1.58	69	67849	45.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.90%
11) 1,1-Dichloroethene-d2	2.12	63	122333	34.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.36%
21) 2-Butanone-d5	3.92	46	127317	121.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	121.20%
24) Chloroform-d	4.37	84	163680	45.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.82%
26) 1,2-Dichloroethane-d4	5.05	65	117948	47.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.96%
32) Benzene-d6	5.07	84	301153	45.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.30%
36) 1,2-Dichloropropane-d6	6.09	67	100019	50.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.56%
41) Toluene-d8	7.34	98	265440	43.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.38%
43) trans-1,3-Dichloropropene-	7.64	79	49067	44.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.00%
47) 2-Hexanone-d5	8.11	63	75721	99.03	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.03%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	125813	47.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.88%
66) 1,2-Dichlorobenzene-d4	11.65	152	114993	48.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.32%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3721	2.460 ug/L	93
3) Chloromethane	1.25	50	4479	2.844 ug/L	99
5) Vinyl chloride	1.32	62	5064	3.089 ug/L #	76
6) Bromomethane	1.53	94	3214	2.917 ug/L	98
8) Chloroethane	1.60	64	3279	3.059 ug/L	92
9) Trichlorofluoromethane	1.77	101	7326	2.700 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4710	3.653 ug/L	85
12) 1,1-Dichloroethene	2.13	96	4565	3.425 ug/L #	1
13) Acetone	2.20	43	5886	7.368 ug/L	69
14) Carbon disulfide	2.31	76	9850	2.574 ug/L	96
15) Methyl Acetate	2.46	43	4741	3.063 ug/L #	82
16) Methylene chloride	2.52	84	4704	2.969 ug/L	94
17) trans-1,2-Dichloroethene	2.78	96	3717	2.571 ug/L	96
18) Methyl tert-butyl Ether	2.78	73	11991	2.360 ug/L #	93
19) 1,1-Dichloroethane	3.21	63	7572	2.673 ug/L	95
20) cis-1,2-Dichloroethene	3.94	96	4225	2.644 ug/L	89
22) 2-Butanone	4.05	43	5162m	5.091 ug/L	

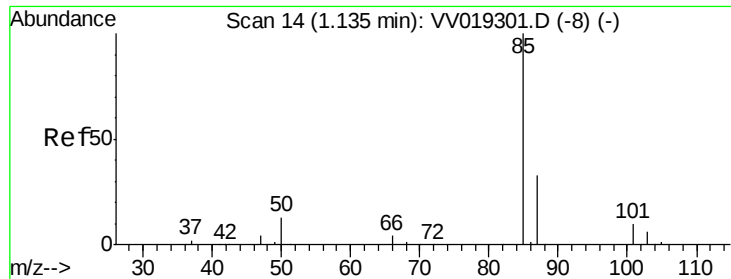
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110920\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	2287	2.600	ug/L	95
25) Chloroform	4.40	83	10132	3.336	ug/L	87
27) 1,2-Dichloroethane	5.16	62	6201	2.402	ug/L	98
29) Cyclohexane	4.71	56	4987	2.439	ug/L	90
30) 1,1,1-Trichloroethane	4.64	97	7296	2.633	ug/L	97
31) Carbon tetrachloride	4.86	117	6281	2.625	ug/L #	51
33) Benzene	5.13	78	15571	2.623	ug/L	100
34) Trichloroethene	5.94	95	4688	2.905	ug/L	94
35) Methylcyclohexane	6.15	83	5335	2.732	ug/L	97
37) 1,2-Dichloropropane	6.20	63	4492	2.835	ug/L #	89
38) Bromodichloromethane	6.53	83	6084	2.668	ug/L	97
39) cis-1,3-Dichloropropene	7.05	75	6622	2.612	ug/L	95
40) 4-Methyl-2-pentanone	7.25	43	11380	5.346	ug/L	93
42) Toluene	7.41	91	18920	2.948	ug/L	92
44) trans-1,3-Dichloropropene	7.68	75	6838	2.632	ug/L	97
45) 1,1,2-Trichloroethane	7.86	97	4297	2.744	ug/L	95
46) Tetrachloroethene	8.00	164	3312	2.516	ug/L	99
48) 2-Hexanone	8.16	43	13481m	8.377	ug/L	
49) Dibromochloromethane	8.27	129	4742	2.539	ug/L	86
50) 1,2-Dibromoethane	8.38	107	4255	2.621	ug/L	86
51) Chlorobenzene	8.90	112	11686	2.722	ug/L	97
52) Ethylbenzene	9.04	91	16627	2.348	ug/L	99
53) m,p-Xylene	9.16	106	6032	2.275	ug/L	97
54) o-Xylene	9.57	106	5719	2.189	ug/L	91
55) Styrene	9.59	104	9693	2.084	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.26	83	6533	2.757	ug/L #	88
59) Bromoform	9.76	173	3356	2.560	ug/L #	96
60) Isopropylbenzene	9.95	105	14937	2.413	ug/L	97
61) 1,2,3-Trichloropropane	10.30	75	5822	3.173	ug/L	94
62) 1,3,5-Trimethylbenzene	10.56	105	11812	2.291	ug/L	96
63) 1,2,4-Trimethylbenzene	10.94	105	11174	2.215	ug/L	99
64) 1,3-Dichlorobenzene	11.21	146	8665	2.676	ug/L	96
65) 1,4-Dichlorobenzene	11.29	146	9282	2.771	ug/L	93
67) 1,2-Dichlorobenzene	11.67	146	9511	2.871	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.45	75	1459	2.725	ug/L	93
69) 1,3,5-Trichlorobenzene	12.67	180	6053	2.604	ug/L	95
70) 1,2,4-trichlorobenzene	13.29	180	4856	2.220	ug/L	96
71) Naphthalene	13.53	128	10368	1.681	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	4837	2.231	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.460 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

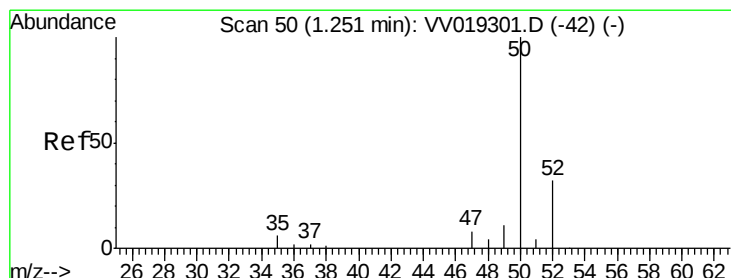
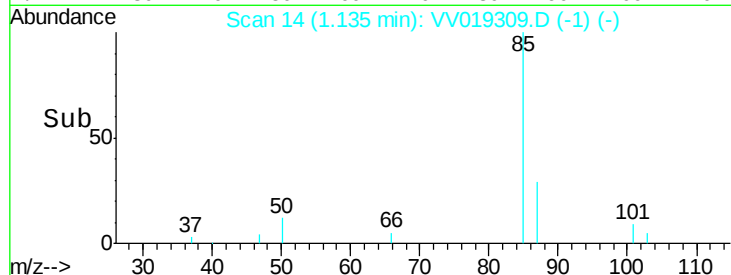
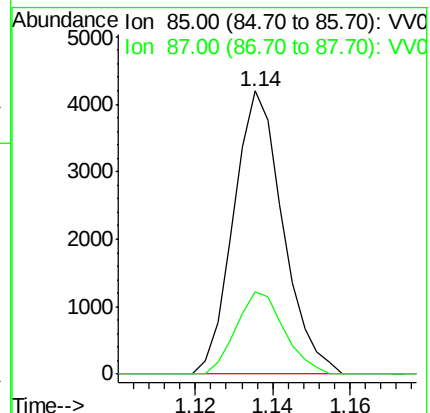
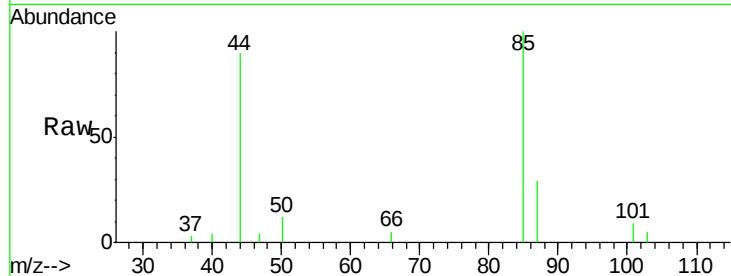
MDL-ME-SOIL-05

Tot Ion: 85 Resp: 3721

Ion Ratio Lower Upper

85 100

87 28.4 25.9 38.9



#3

Chloromethane

Concen: 2.844 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019309.D

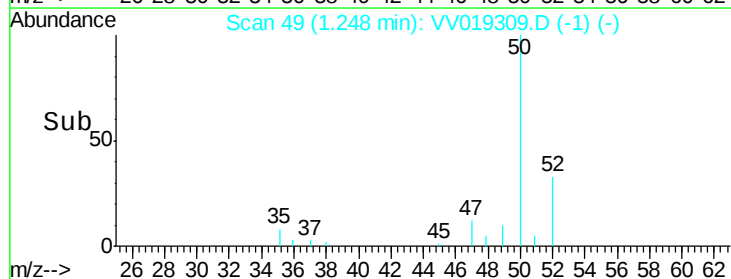
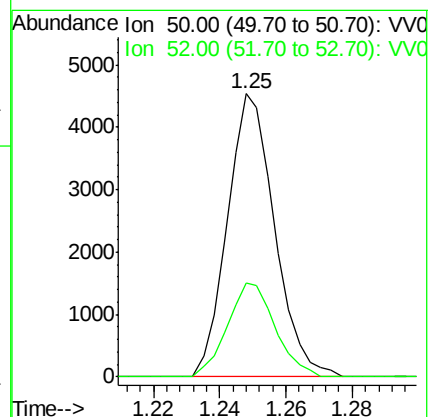
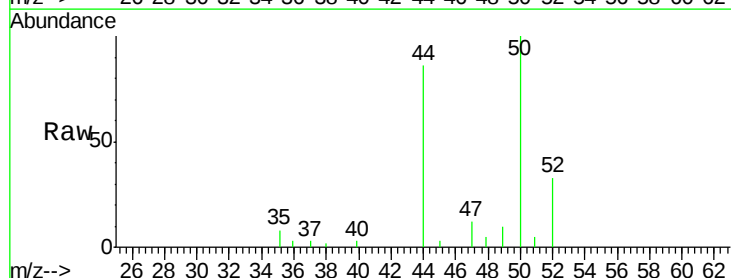
Acq: 09 Nov 2020 17:59

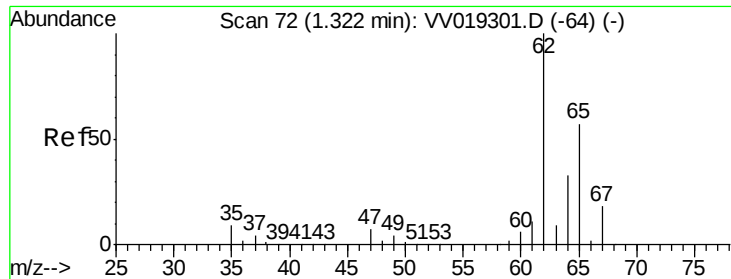
Tgt Ion: 50 Resp: 4479

Ion Ratio Lower Upper

50 100

52 33.1 23.0 42.6





#5

Vinyl chloride

Concen: 3.089 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

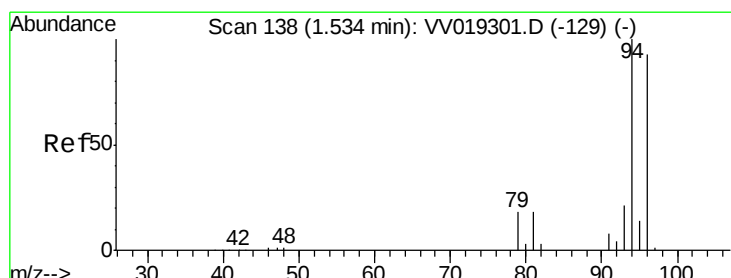
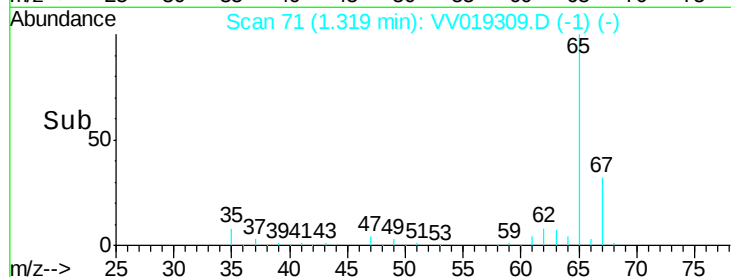
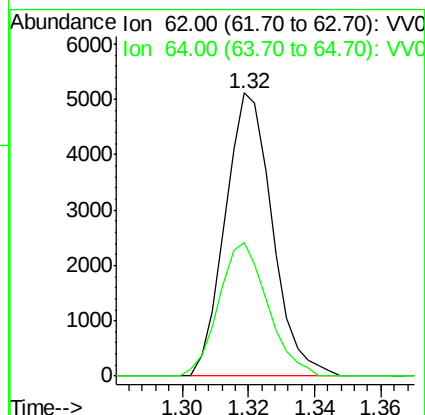
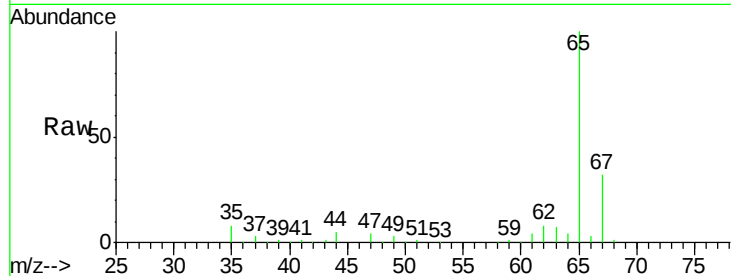
MDL-ME-SOIL-05

Tot Ion: 62 Resp: 5064

Ion Ratio Lower Upper

62 100

64 47.2 23.3 43.3#



#6

Bromomethane

Concen: 2.917 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019309.D

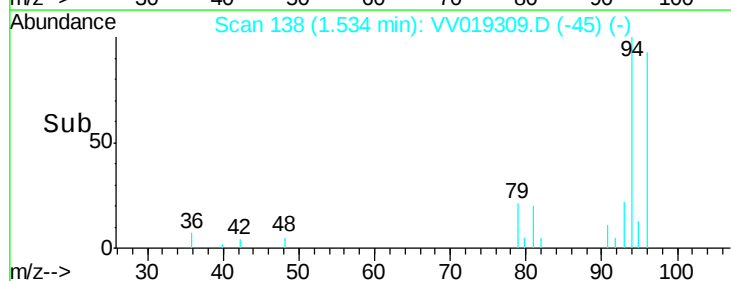
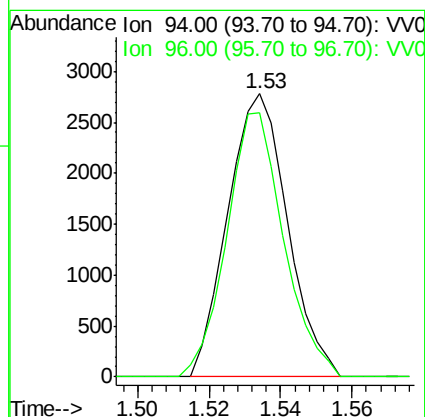
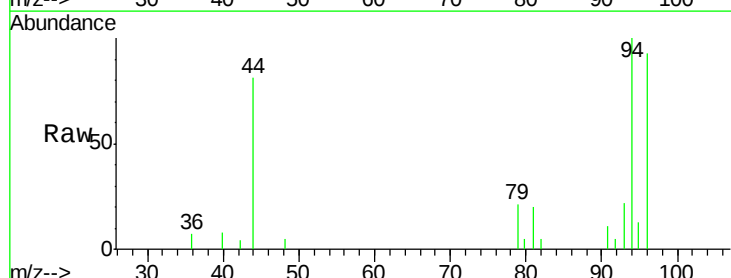
Acq: 09 Nov 2020 17:59

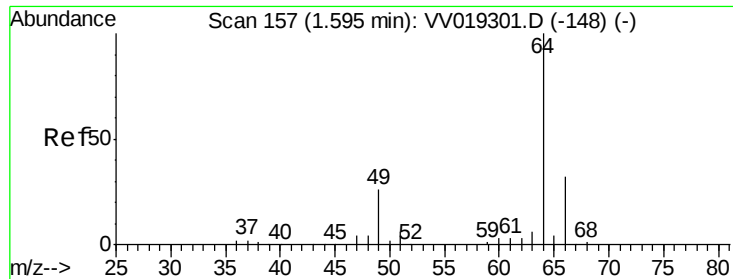
Tgt Ion: 94 Resp: 3214

Ion Ratio Lower Upper

94 100

96 93.1 66.4 123.2





#8

Chloroethane

Concen: 3.059 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

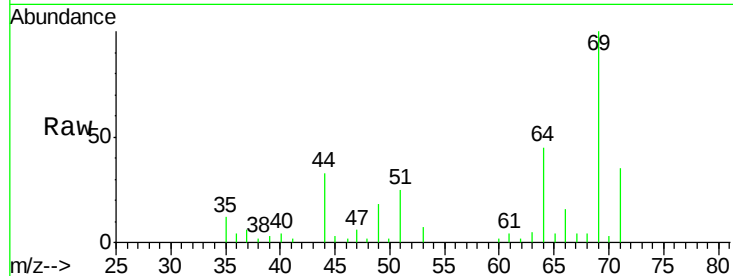
MDL-ME-SOIL-05

Tot Ion: 64 Resp: 3279

Ion Ratio Lower Upper

64 100

66 36.8 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0

1.60

2500

2000

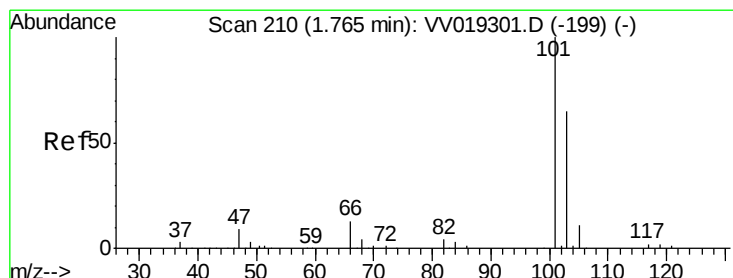
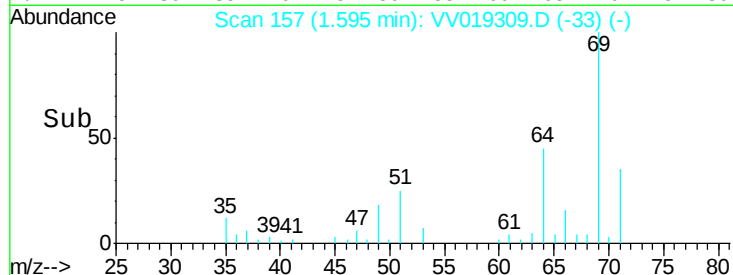
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 2.700 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019309.D

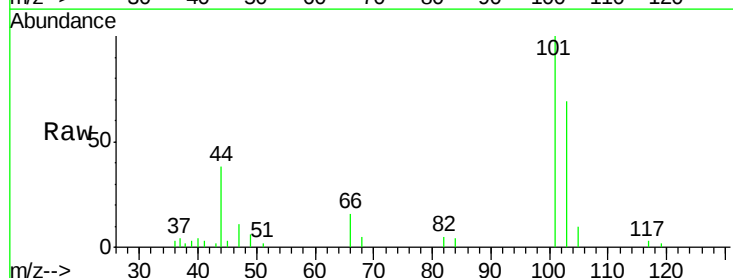
Acq: 09 Nov 2020 17:59

Tgt Ion: 101 Resp: 7326

Ion Ratio Lower Upper

101 100

103 66.5 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.77

6000

5000

4000

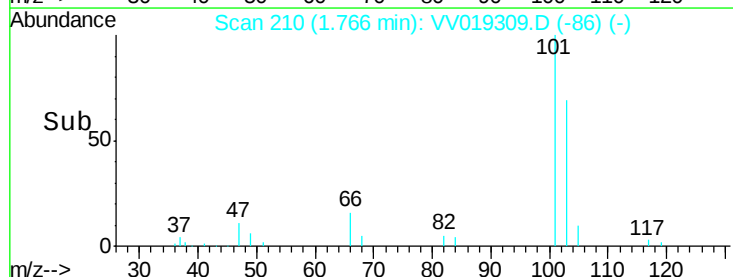
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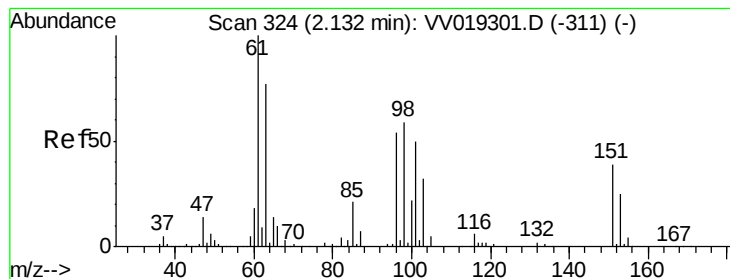
2000

1000

0

Time-->





#10

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

Concen: 3.653 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

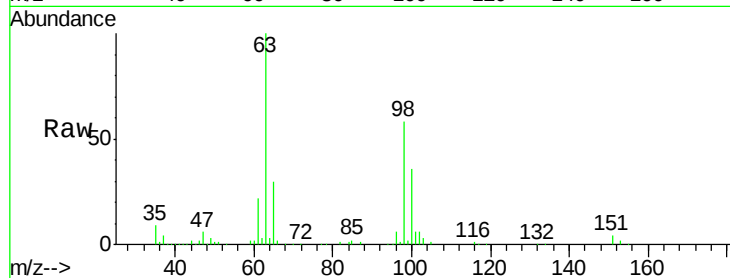
Tot Ion:101 Resp: 4710

Ion Ratio Lower Upper

101 100

85 37.9 35.6 53.4

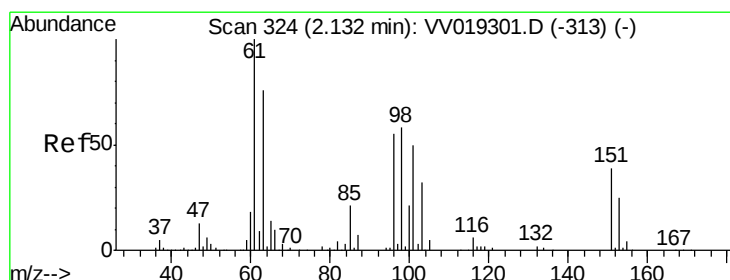
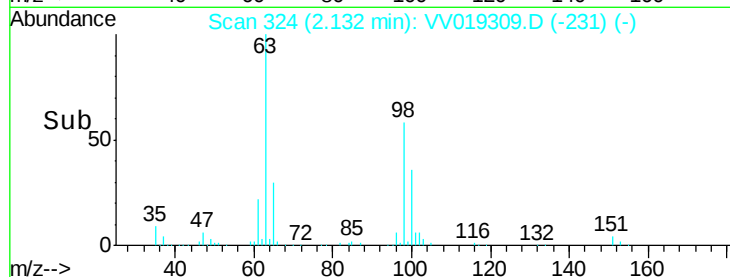
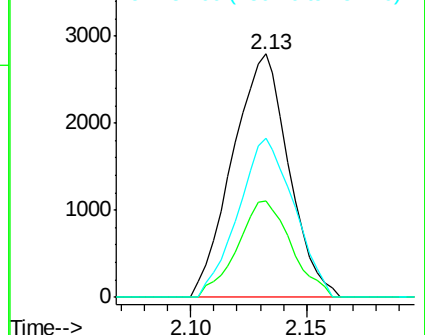
151 64.7 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): VV019301.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV019301.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV019301.D (-311) (-)



#12

1,1-Dichloroethene

Concen: 3.425 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

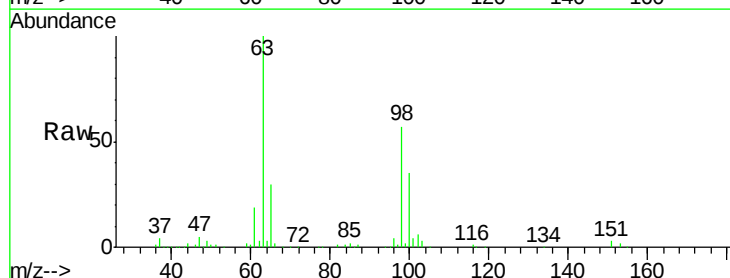
Tgt Ion: 96 Resp: 4565

Ion Ratio Lower Upper

96 100

61 420.1 133.6 248.0#

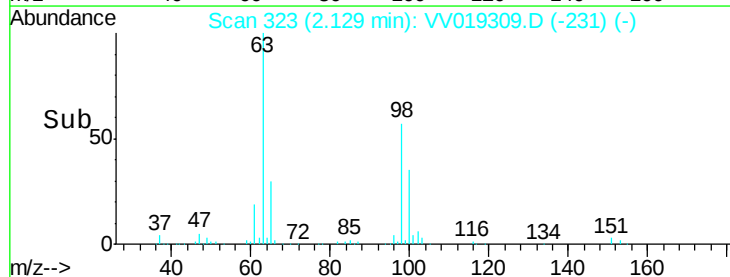
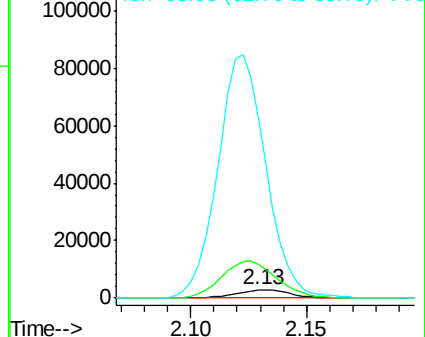
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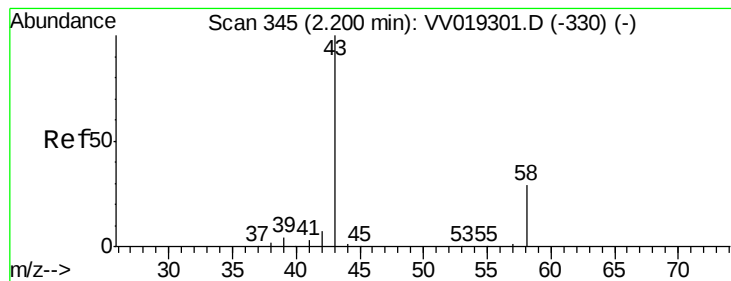


Abundance Ion 96.00 (95.70 to 96.70): VV019309.D (-231) (-)

Ion 61.00 (60.70 to 61.70): VV019309.D (-231) (-)

Ion 63.00 (62.70 to 63.70): VV019309.D (-231) (-)





#13

Acetone

Concen: 7.368 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

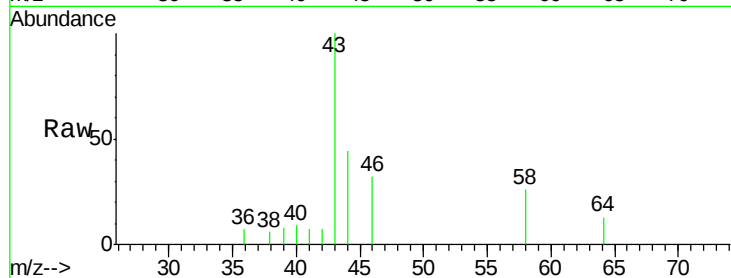
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 5886

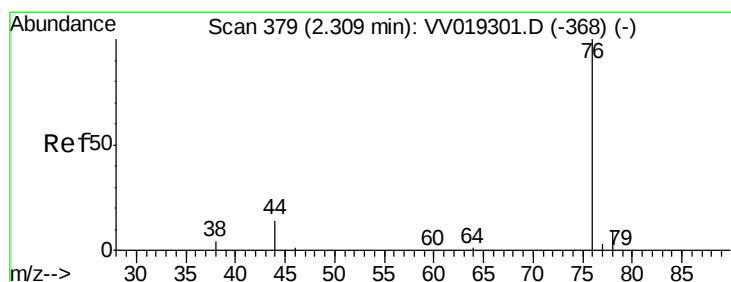
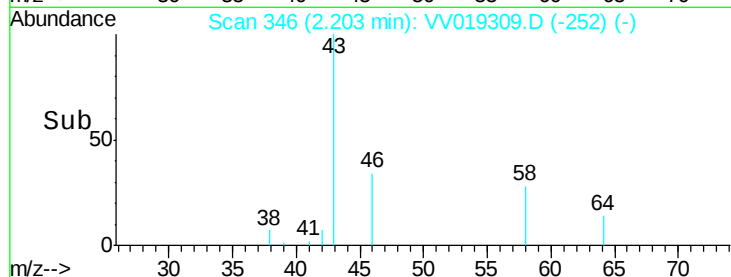
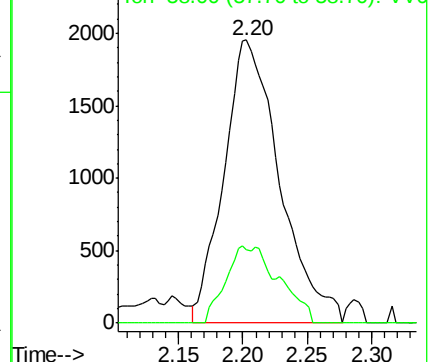
Ion Ratio Lower Upper

43 100

58 12.5 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV019309.D (-252) (-)



#14

Carbon disulfide

Concen: 2.574 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV019309.D

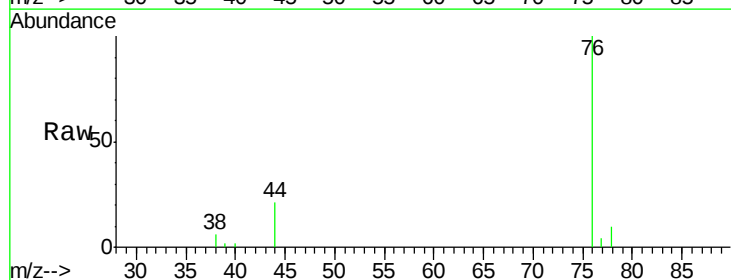
Acq: 09 Nov 2020 17:59

Tgt Ion: 76 Resp: 9850

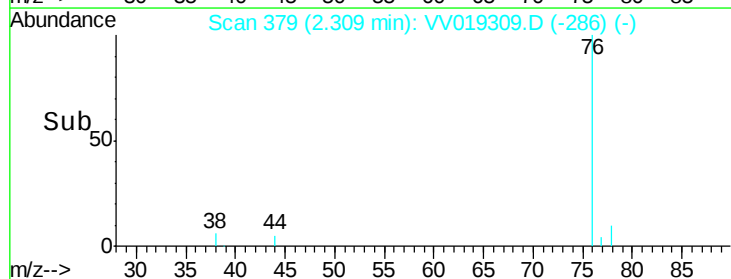
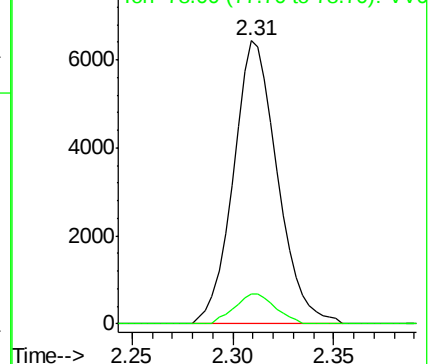
Ion Ratio Lower Upper

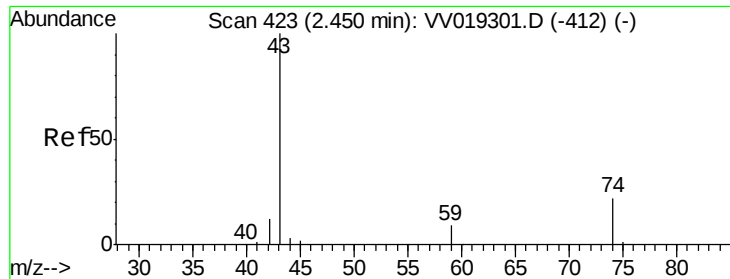
76 100

78 10.5 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019309.D (-286) (-)

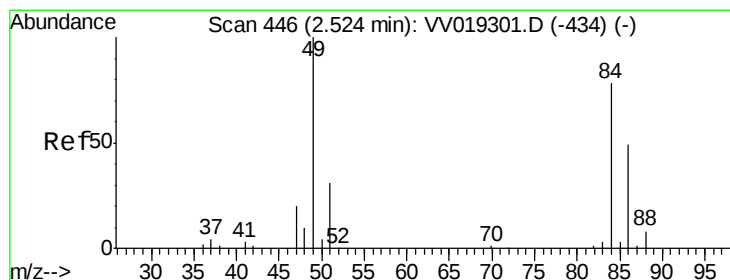
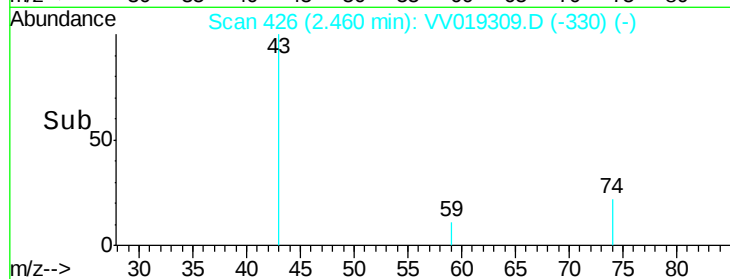
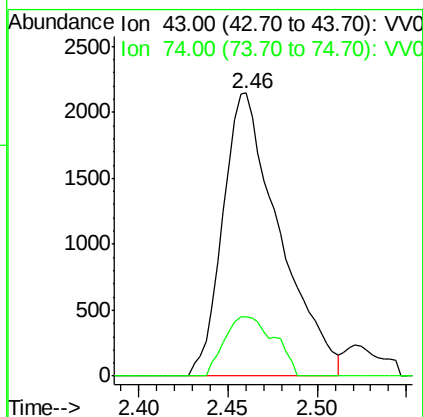
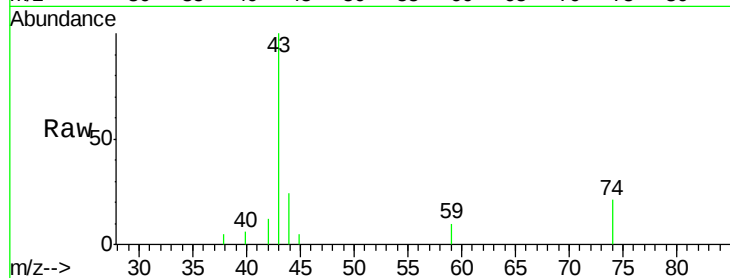




#15
Methvl Acetate
Concen: 3.063 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

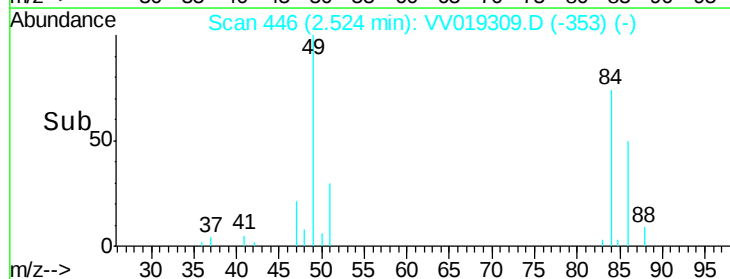
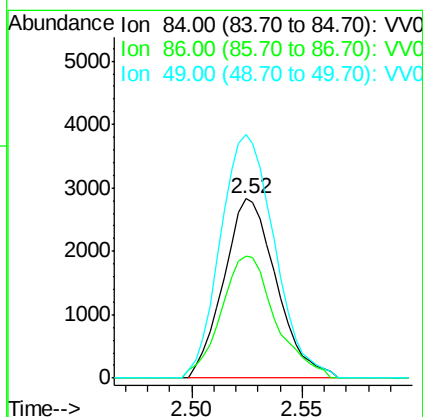
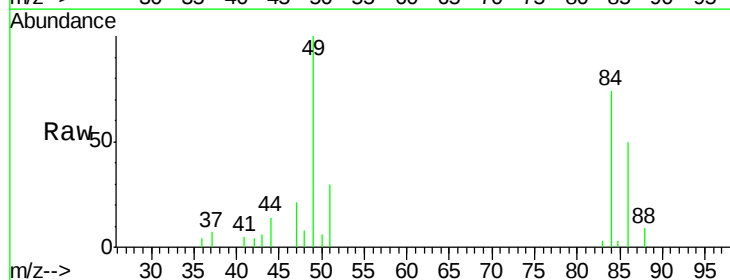
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

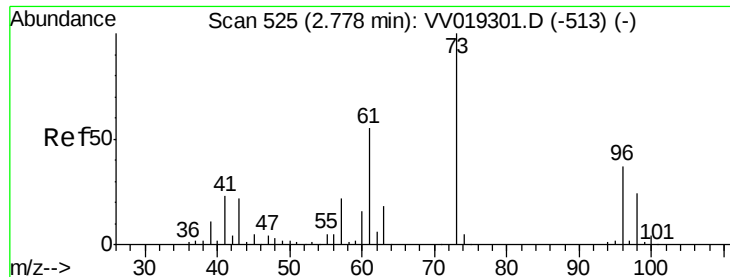
Tot Ion: 43 Resp: 4741
Ion Ratio Lower Upper
43 100
74 14.9 18.8 28.2#



#16
Methylene chloride
Concen: 2.969 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

Tgt Ion: 84 Resp: 4704
Ion Ratio Lower Upper
84 100
86 68.2 45.6 84.8
49 135.7 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.571 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

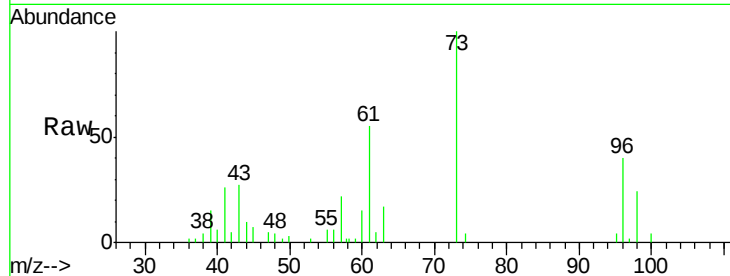
Tot Ion: 96 Resp: 3717

Ion Ratio Lower Upper

96 100

61 138.1 100.7 187.1

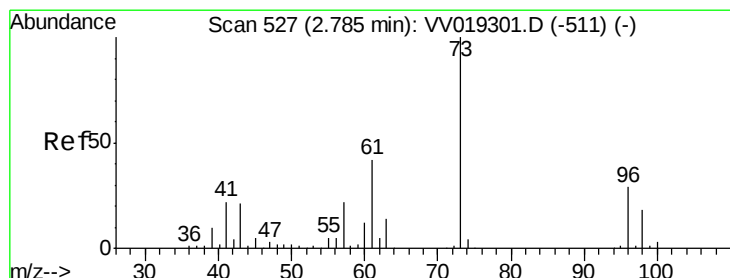
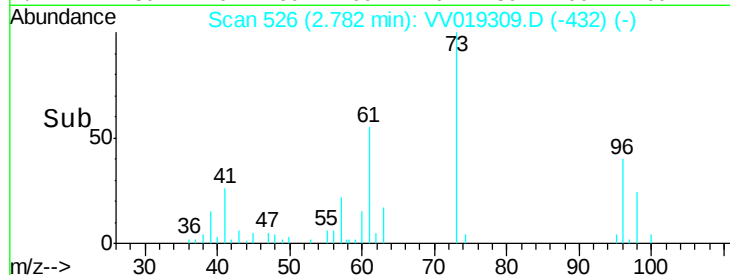
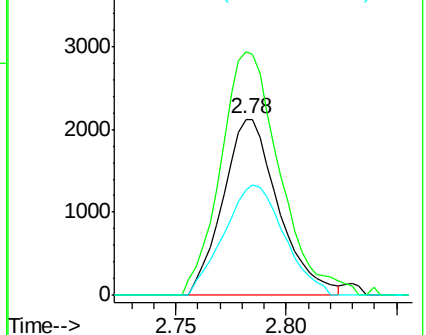
98 59.9 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VV019309.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV019309.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019309.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 2.360 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

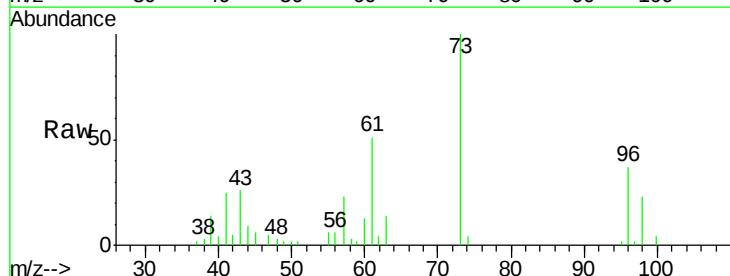
Tgt Ion: 73 Resp: 11991

Ion Ratio Lower Upper

73 100

43 27.0 17.9 26.9#

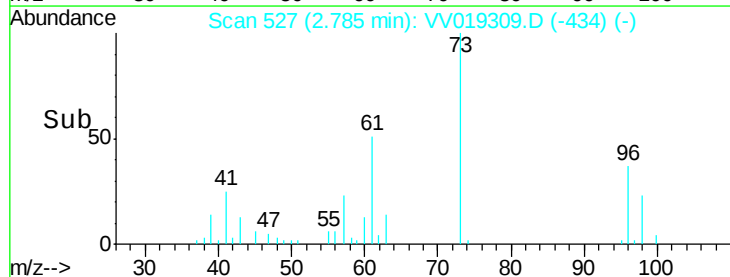
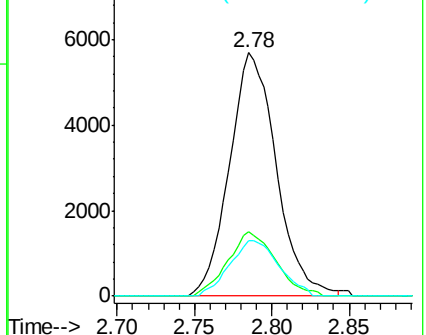
57 23.9 17.1 25.7

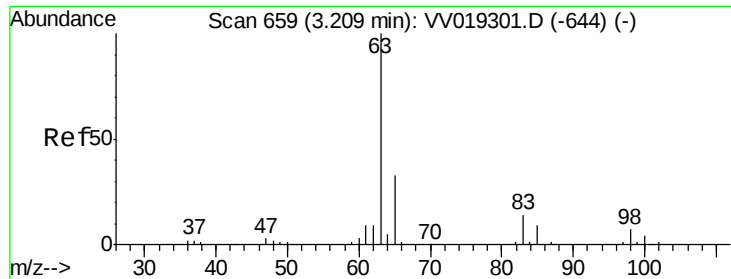


Abundance Ion 73.00 (72.70 to 73.70): VV019309.D (-434) (-)

Ion 43.00 (42.70 to 43.70): VV019309.D (-434) (-)

Ion 57.00 (56.70 to 57.70): VV019309.D (-434) (-)

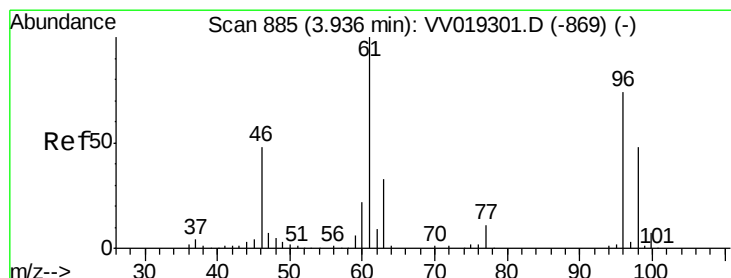
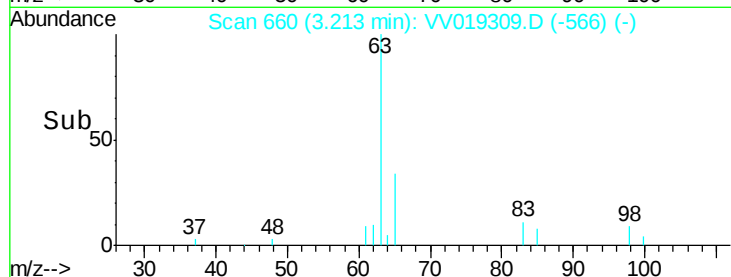
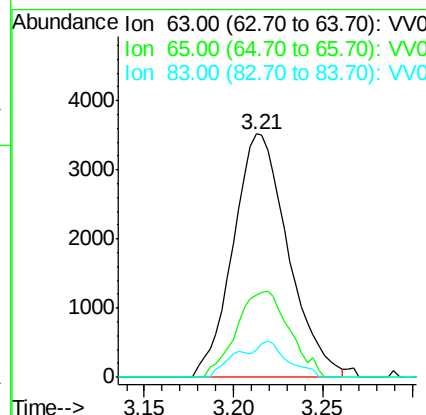
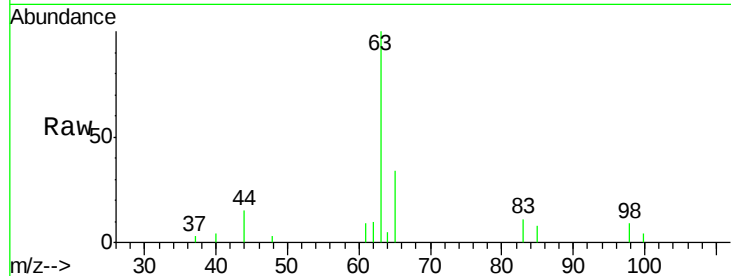




#19
 1,1-Dichloroethane
 Concen: 2.673 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

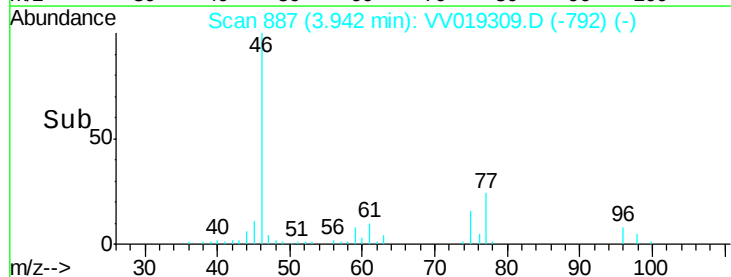
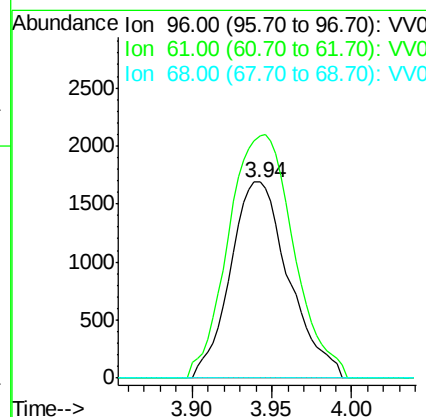
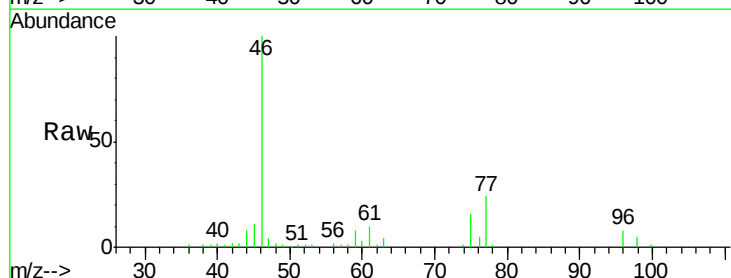
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

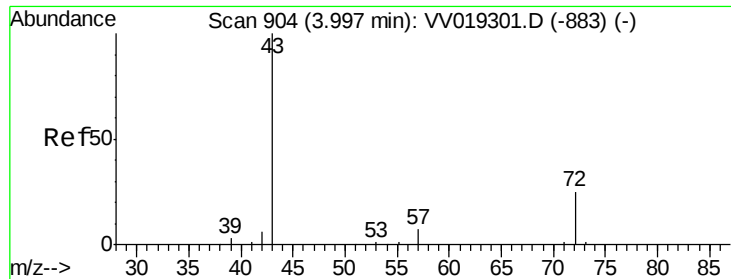
Tot Ion: 63 Resp: 7572
 Ion Ratio Lower Upper
 63 100
 65 33.6 21.8 40.6
 83 11.2 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.644 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

Tgt Ion: 96 Resp: 4225
 Ion Ratio Lower Upper
 96 100
 61 123.7 95.6 177.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.091 ug/L m

RT: 4.05 min Scan# 919

Delta R.T. 0.05 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

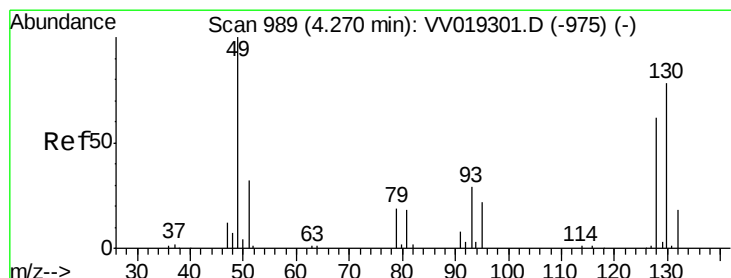
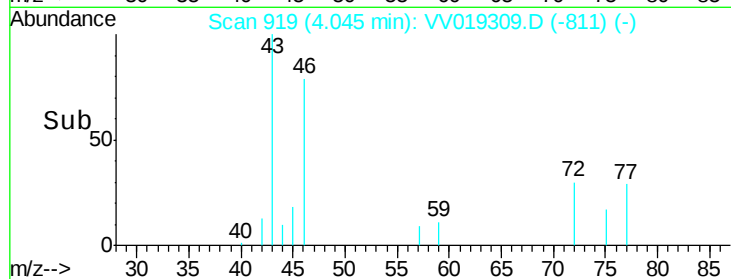
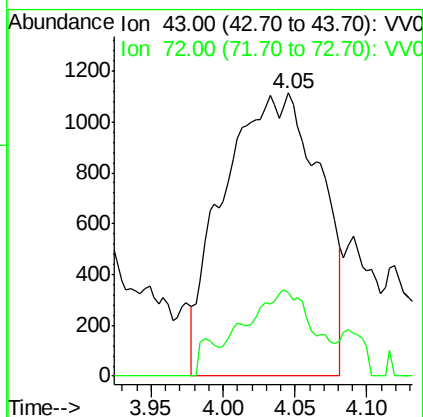
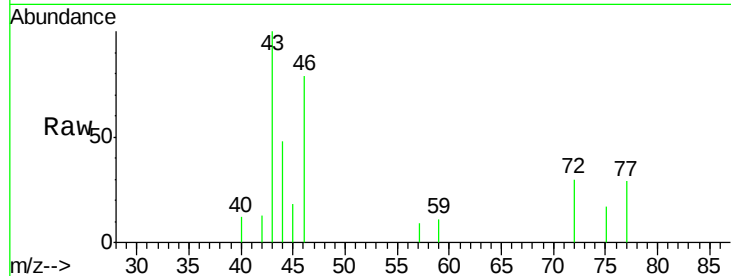
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 5162

Ion Ratio Lower Upper

43 100

72 2.4 12.7 38.0#



#23

Bromochloromethane

Concen: 2.600 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Tgt Ion: 128 Resp: 2287

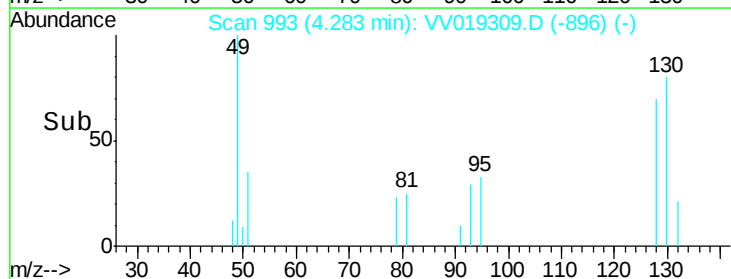
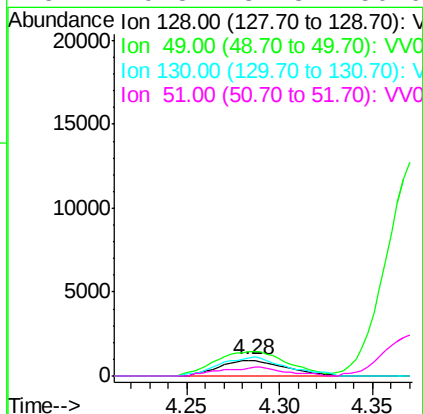
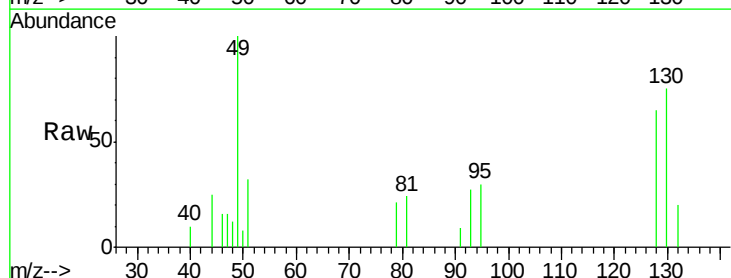
Ion Ratio Lower Upper

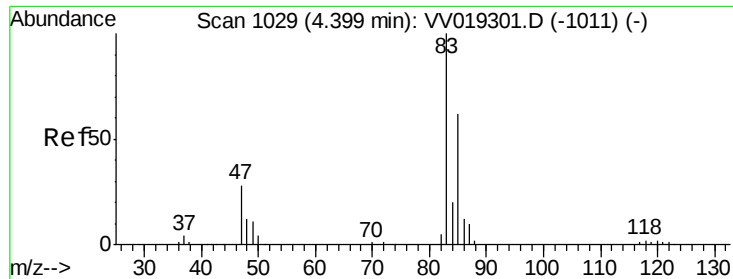
128 100

49 154.0 108.8 202.2

130 115.1 88.5 164.3

51 49.8 37.8 56.6

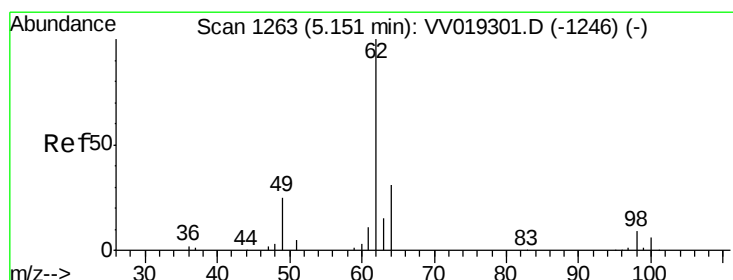
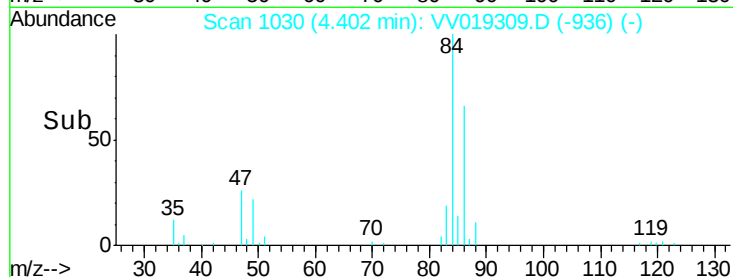
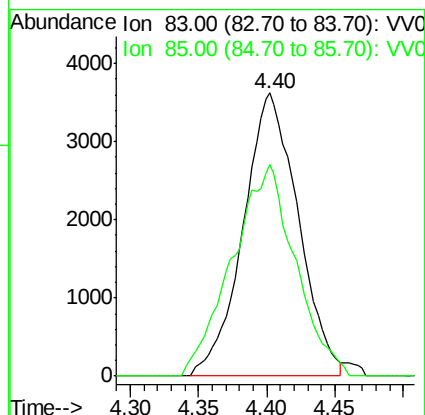
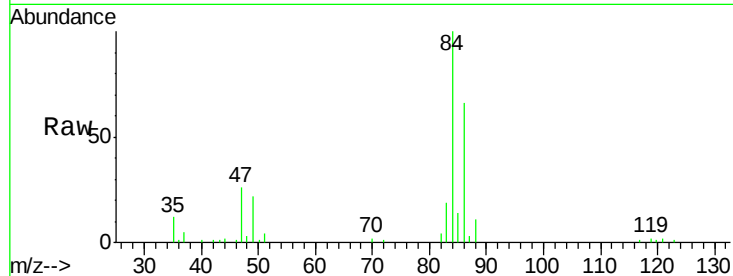




#25
Chloroform
Concen: 3.336 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

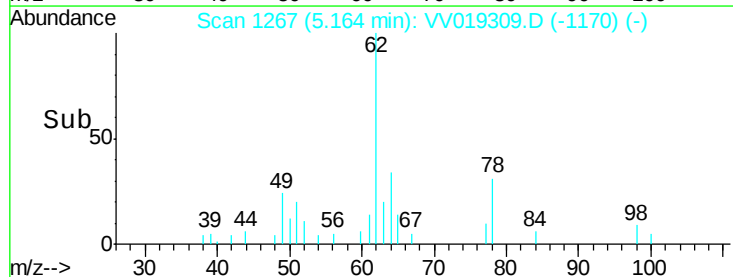
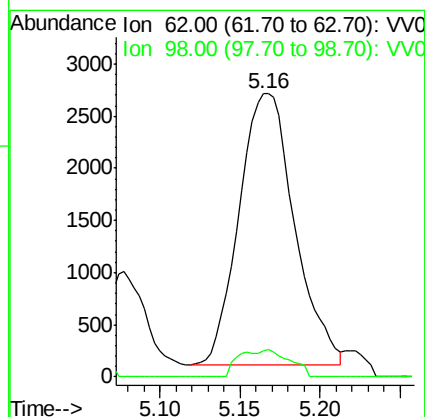
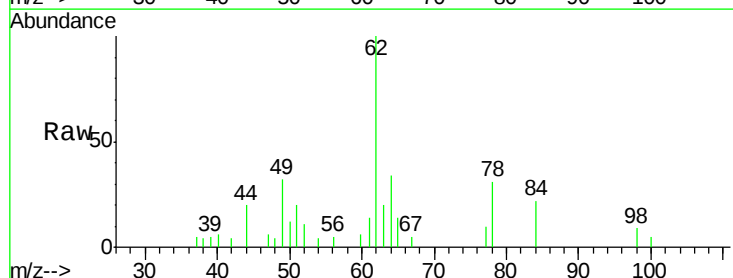
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

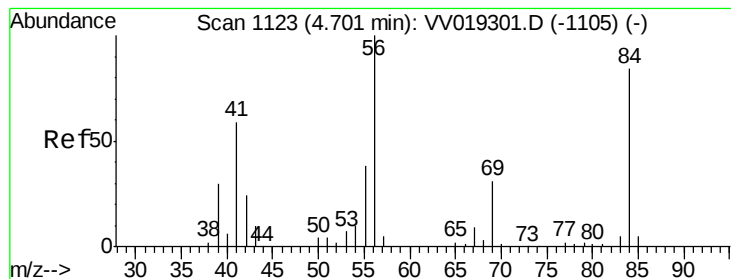
Tot Ion: 83 Resp: 10132
Ion Ratio Lower Upper
83 100
85 75.0 45.4 84.4



#27
1,2-Dichloroethane
Concen: 2.402 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

Tgt Ion: 62 Resp: 6201
Ion Ratio Lower Upper
62 100
98 9.3 6.8 10.2





#29

Cvclohexane

Concen: 2.439 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

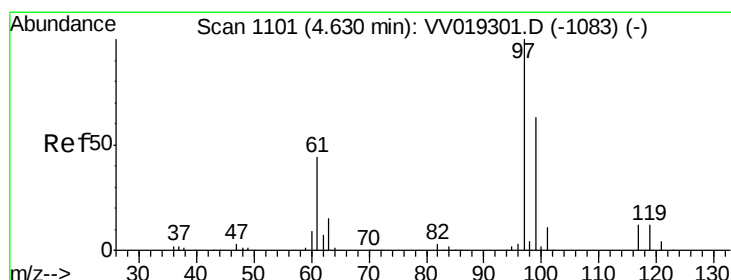
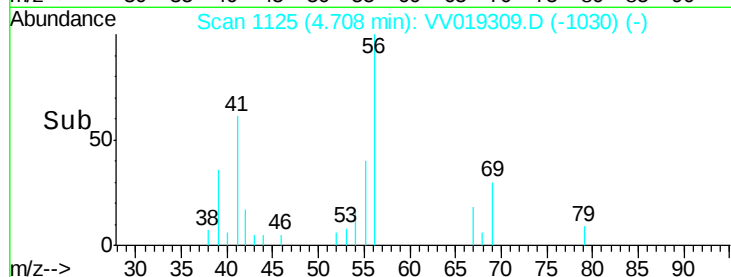
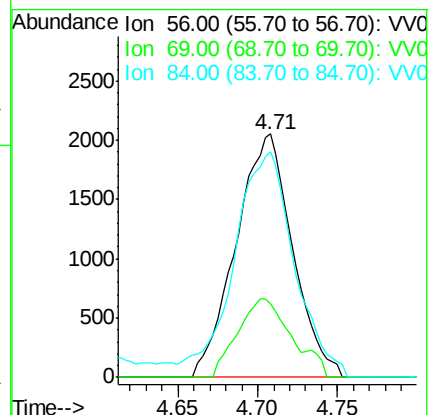
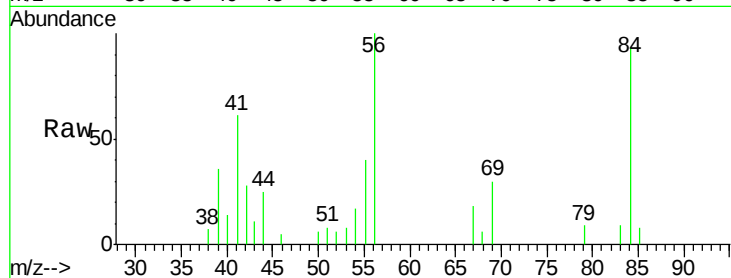
Tot Ion: 56 Resp: 4987

Ion Ratio Lower Upper

56 100

69 27.5 24.6 36.8

84 98.8 70.5 105.7



#30

1,1,1-Trichloroethane

Concen: 2.633 ug/L

RT: 4.64 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

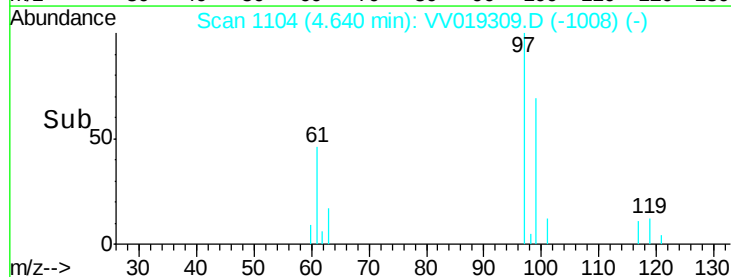
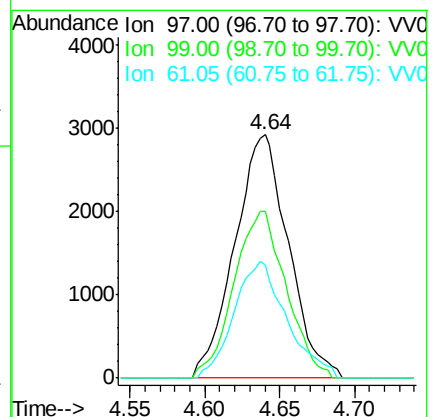
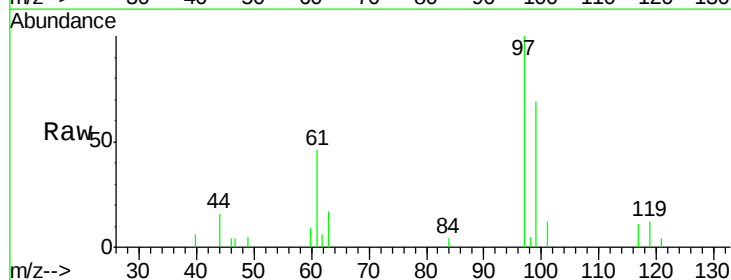
Tgt Ion: 97 Resp: 7296

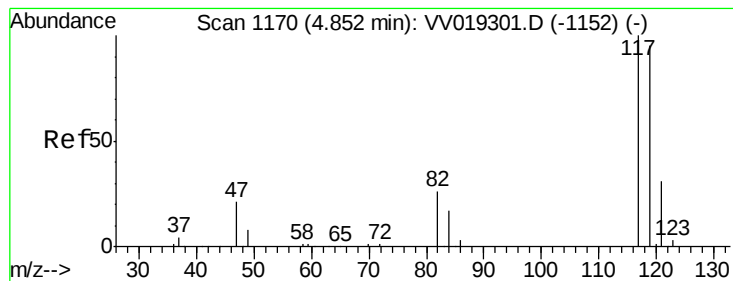
Ion Ratio Lower Upper

97 100

99 66.7 52.0 78.0

61 47.0 35.3 52.9





#31

Carbon tetrachloride

Concen: 2.625 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

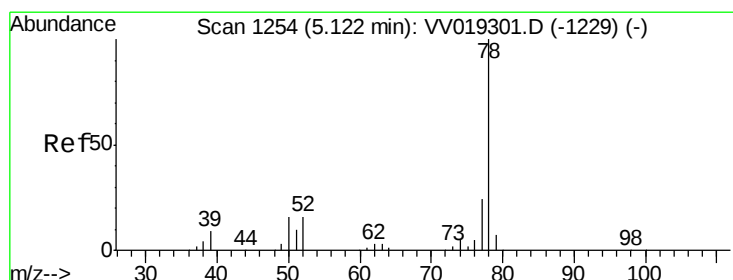
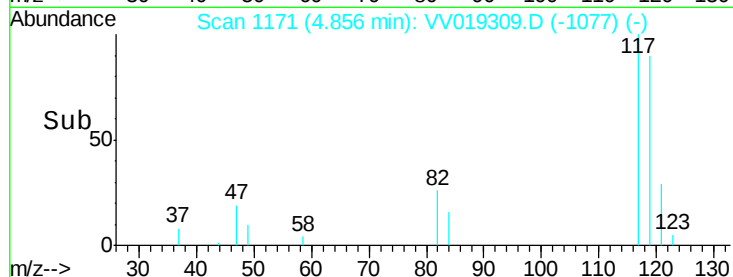
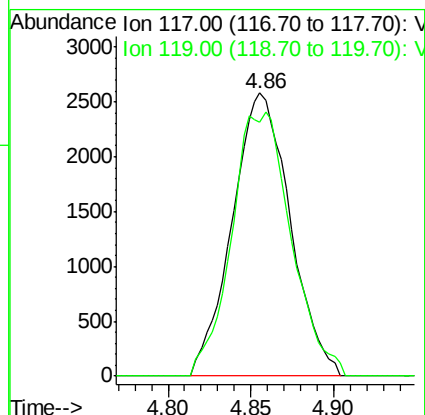
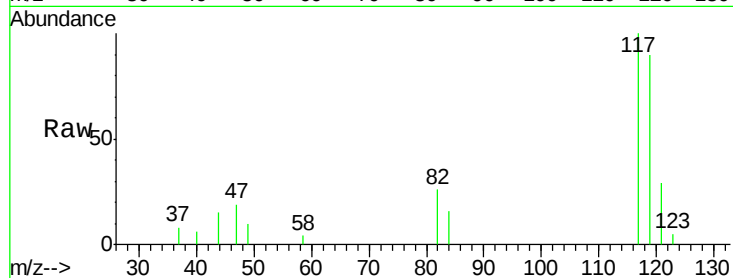
MDL-ME-SOIL-05

Tot Ion:117 Resp: 6281

Ion Ratio Lower Upper

117 100

119 48.8 77.8 116.6#



#33

Benzene

Concen: 2.623 ug/L

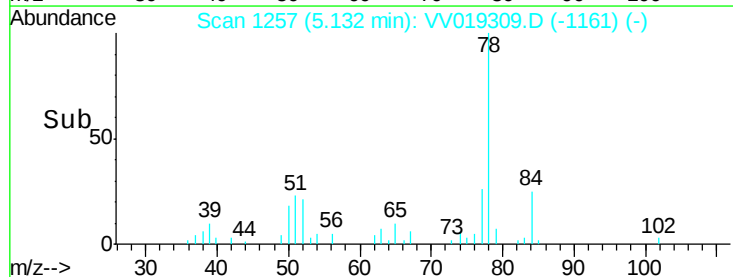
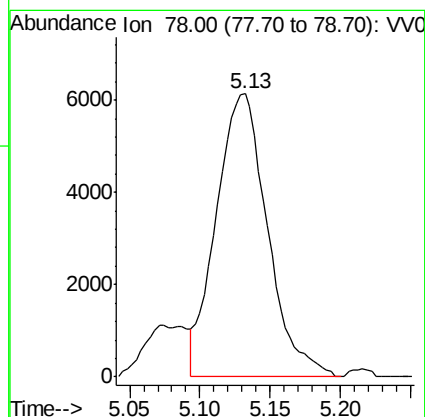
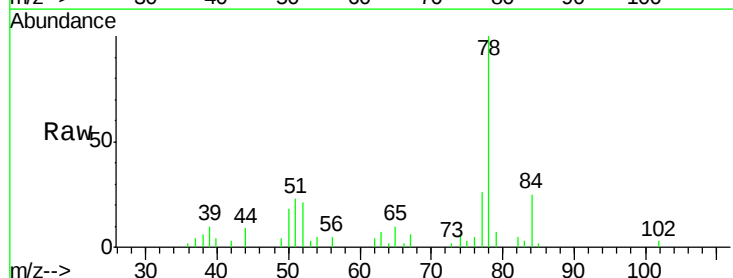
RT: 5.13 min Scan# 1257

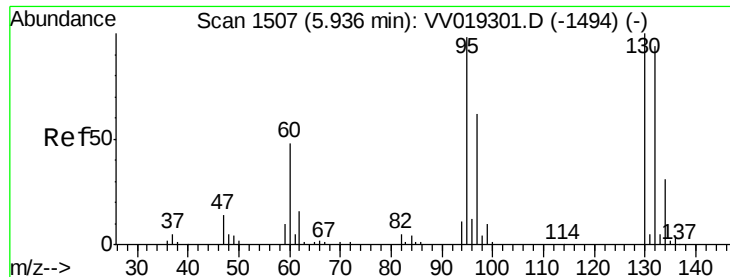
Delta R.T. 0.01 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Tgt Ion: 78 Resp: 15571





#34

Trichloroethene

Concen: 2.905 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 95 Resp: 4688

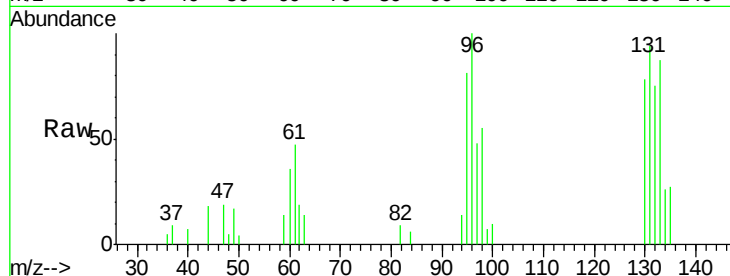
Ion Ratio Lower Upper

95 100

97 58.7 45.4 84.4

132 92.5 68.5 127.3

130 96.2 72.0 133.6

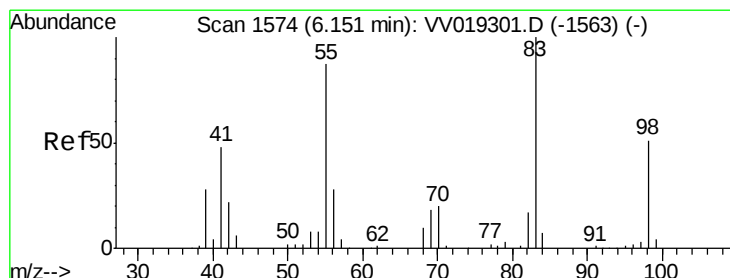
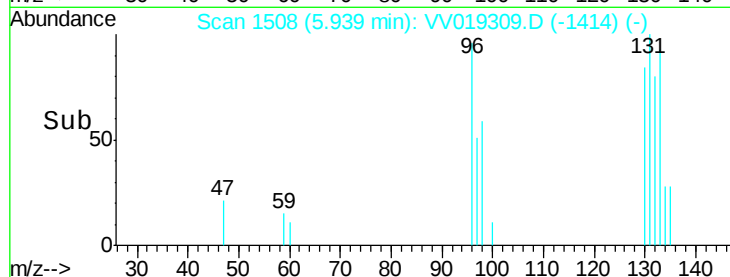
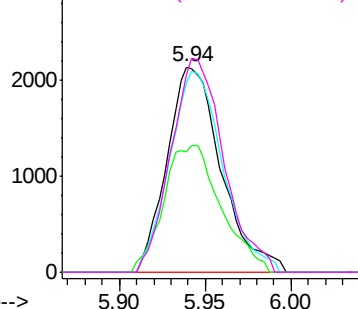


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 2.732 ug/L

RT: 6.15 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

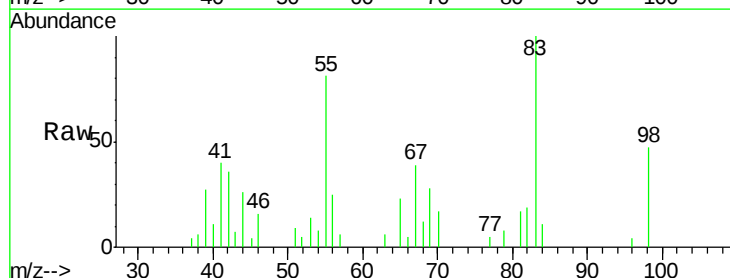
Tgt Ion: 83 Resp: 5335

Ion Ratio Lower Upper

83 100

55 81.7 62.8 94.2

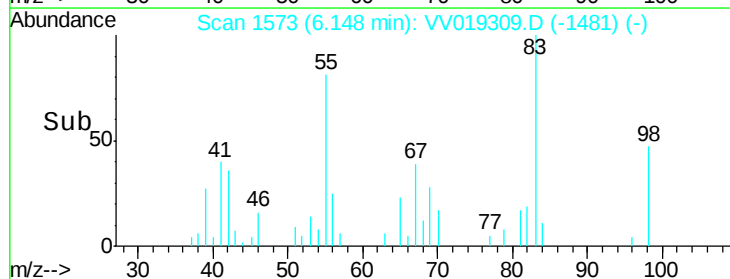
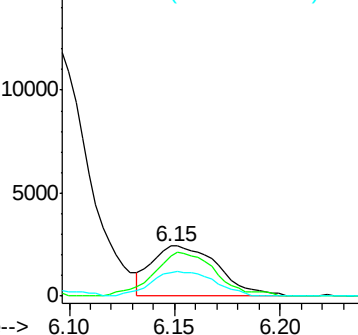
98 46.2 38.6 58.0

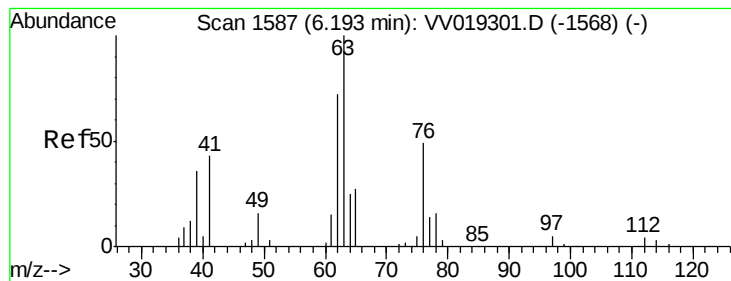


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 2.835 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

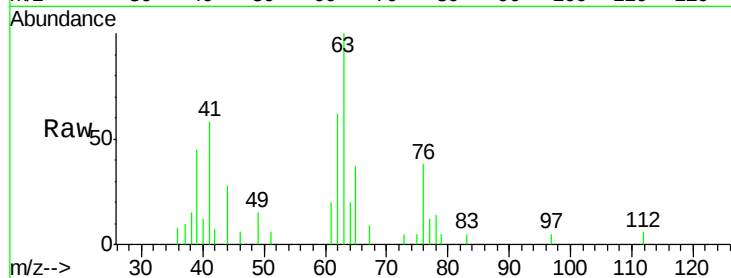
MDL-ME-SOIL-05

Tot Ion: 63 Resp: 4492

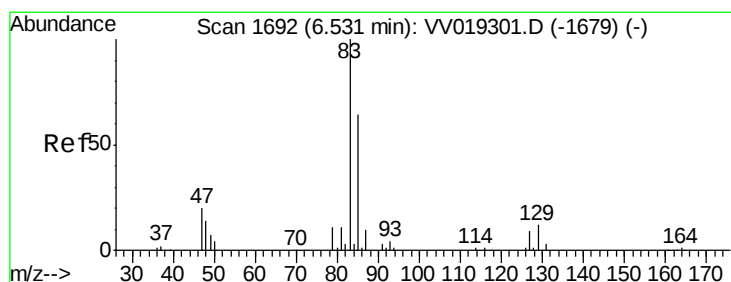
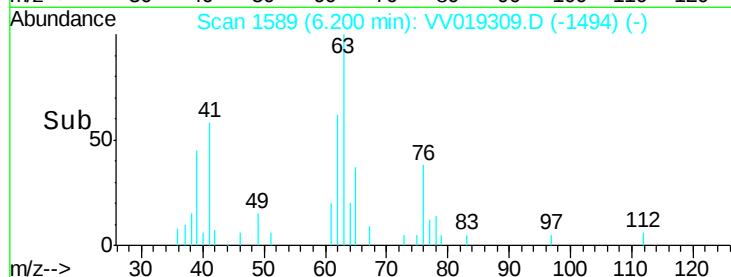
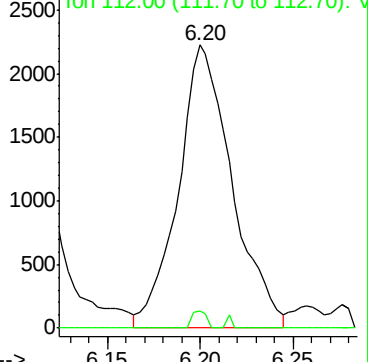
Ion Ratio Lower Upper

63 100

112 1.6 4.2 6.2#



Abundance Ion 63.00 (62.70 to 63.70): VV019309.D (-1589) (-)



#38

Bromodichloromethane

Concen: 2.668 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

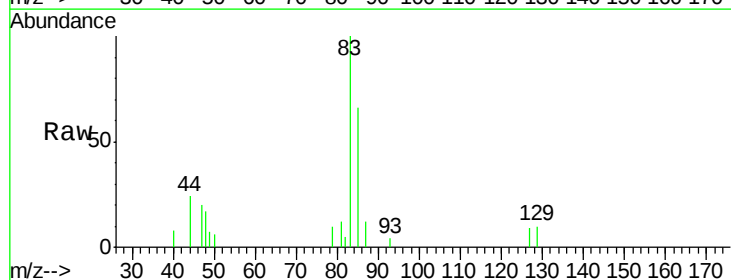
Tgt Ion: 83 Resp: 6084

Ion Ratio Lower Upper

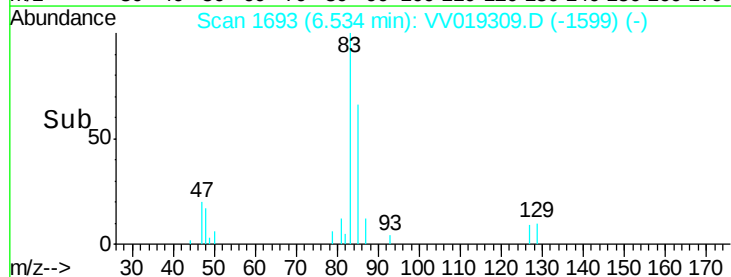
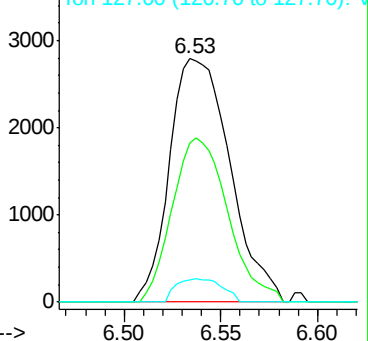
83 100

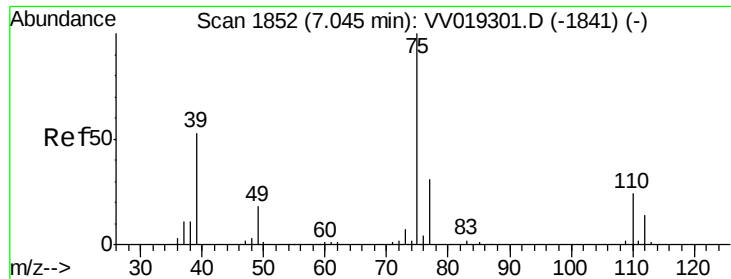
85 65.6 44.0 81.8

127 8.9 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VV019309.D (-1692) (-)

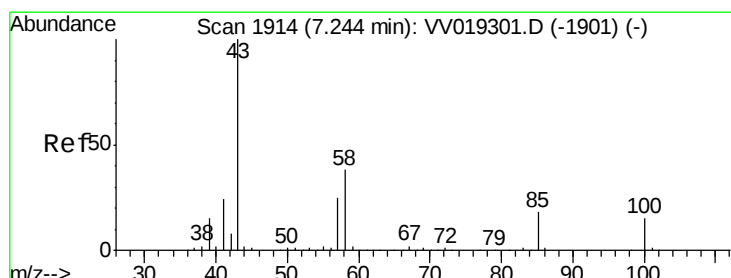
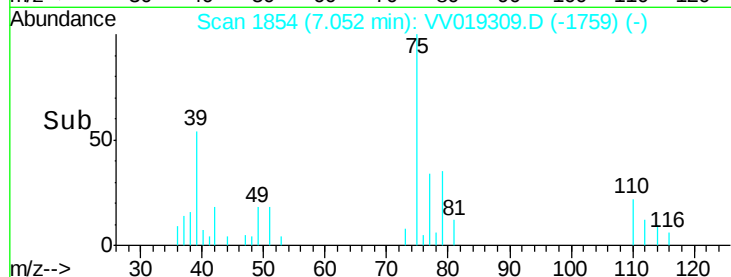
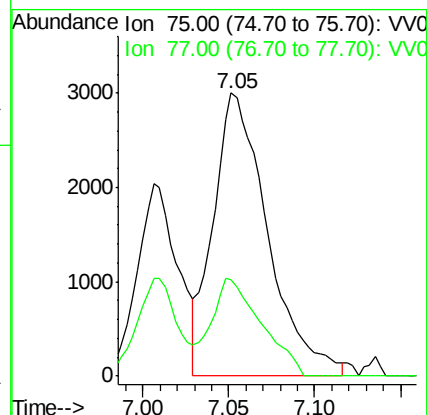
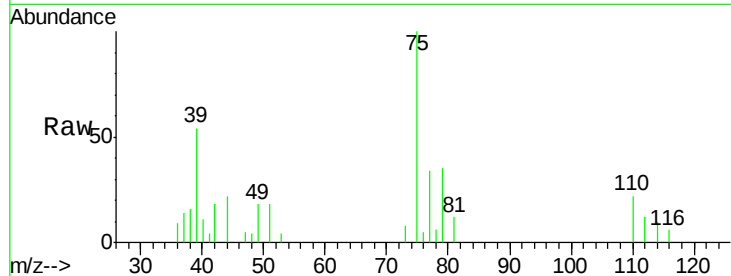




#39
 cis-1,3-Dichloropropene
 Concen: 2.612 ug/L
 RT: 7.05 min Scan# 1854
 Delta R.T. 0.01 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

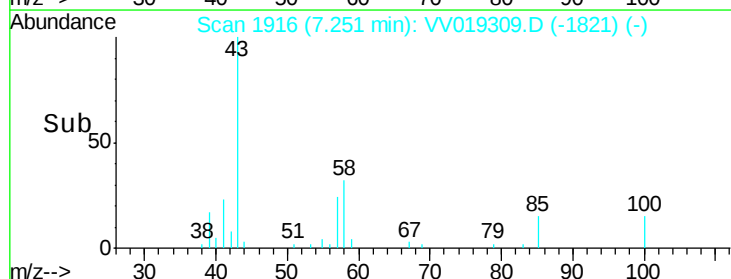
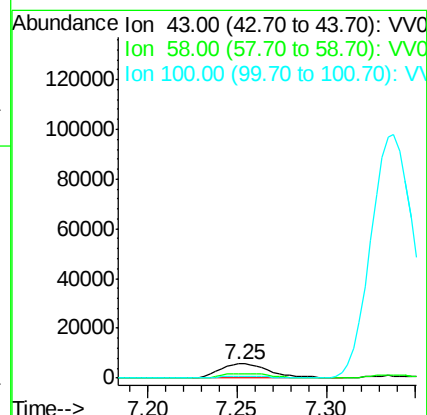
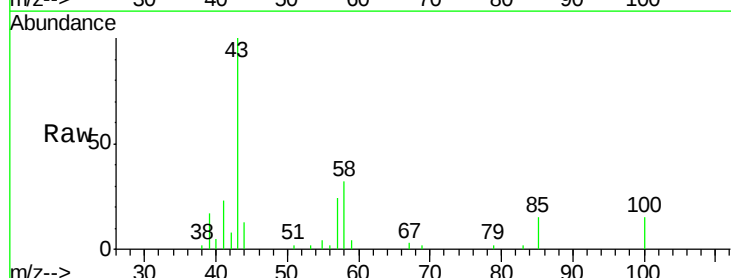
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

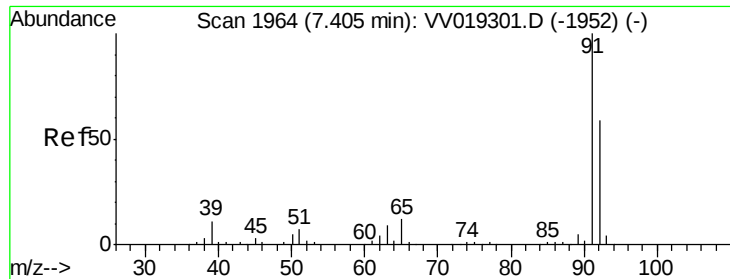
Tot Ion: 75 Resp: 6622
 Ion Ratio Lower Upper
 75 100
 77 34.2 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 5.346 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

Tgt Ion: 43 Resp: 11380
 Ion Ratio Lower Upper
 43 100
 58 32.9 30.5 45.7
 100 14.1 12.7 19.1





#42

Toluene

Concen: 2.948 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

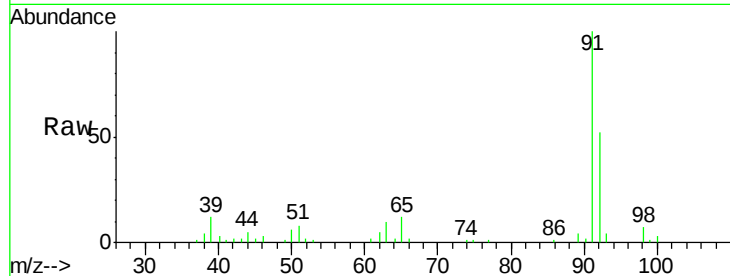
MDL-ME-SOIL-05

Tot Ion: 91 Resp: 18920

Ion Ratio Lower Upper

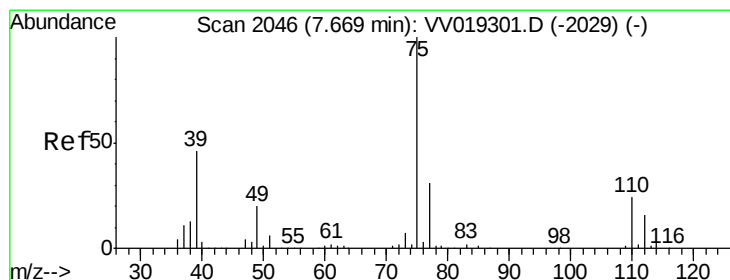
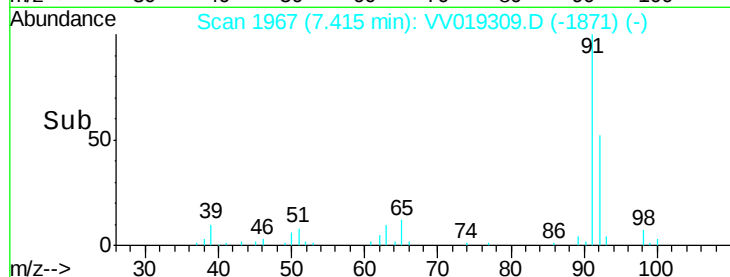
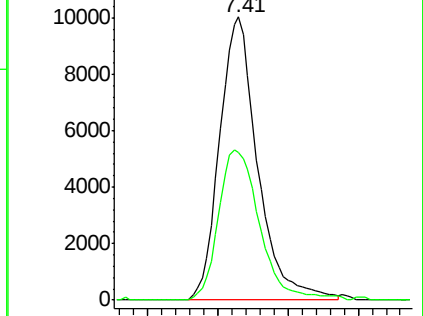
91 100

92 52.0 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.632 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VV019309.D

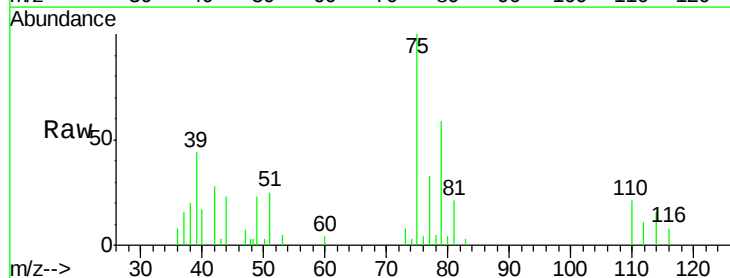
Acq: 09 Nov 2020 17:59

Tgt Ion: 75 Resp: 6838

Ion Ratio Lower Upper

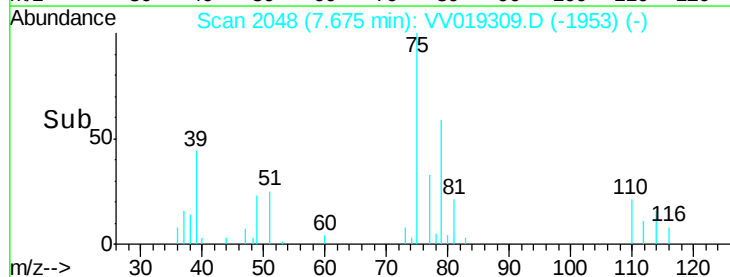
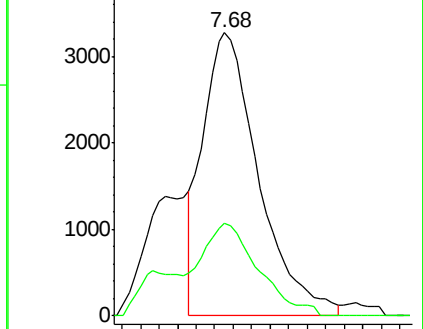
75 100

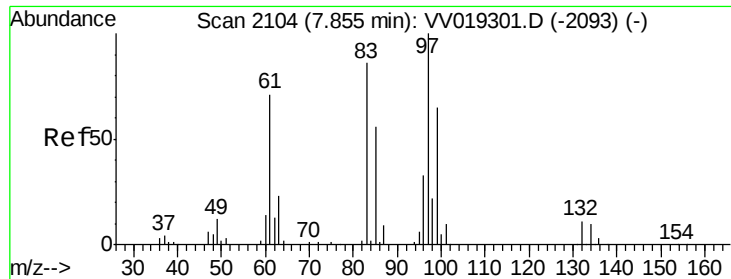
77 32.7 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#45

1,1,2-Trichloroethane

Concen: 2.744 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.01 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 97 Resp: 4297

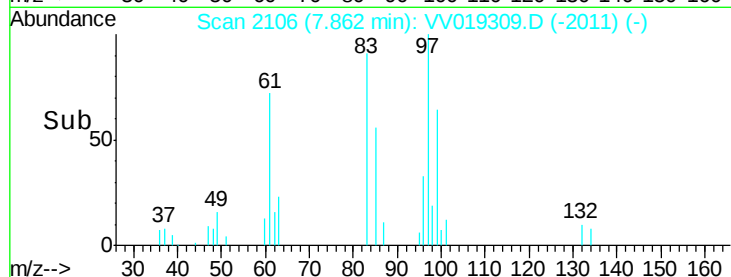
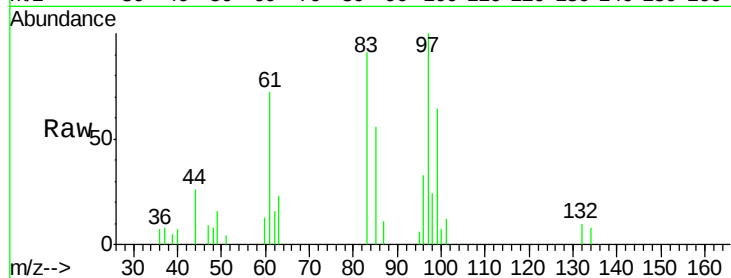
Ion Ratio Lower Upper

97 100

99 64.0 45.1 83.9

83 90.6 57.6 107.0

85 55.5 37.8 70.2

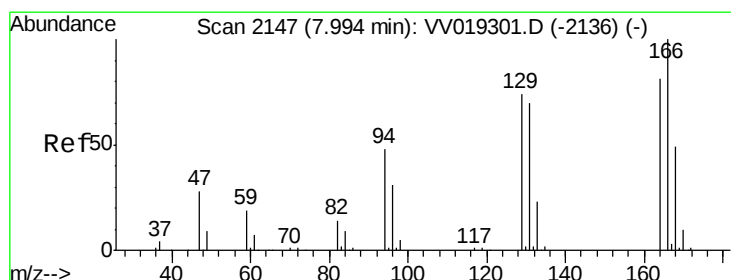
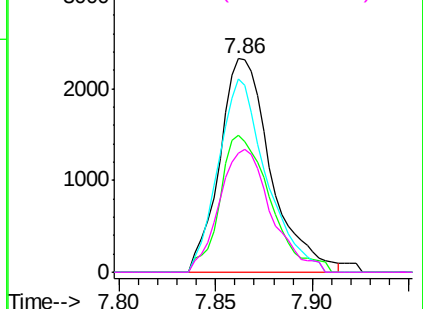


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 2.516 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Tgt Ion: 164 Resp: 3312

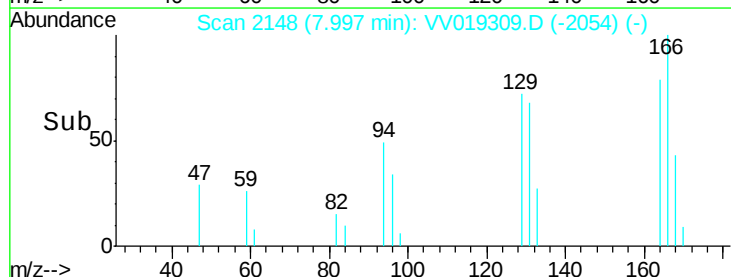
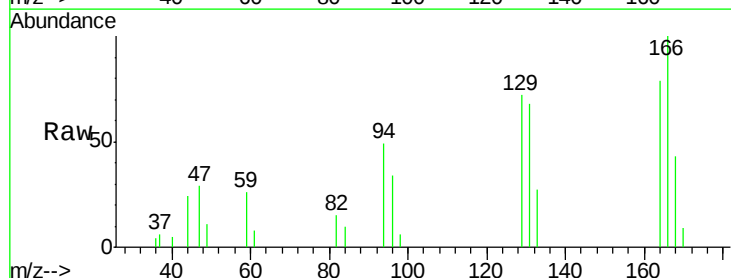
Ion Ratio Lower Upper

164 100

129 91.3 62.6 116.3

131 85.8 59.0 109.6

166 126.7 88.0 163.4

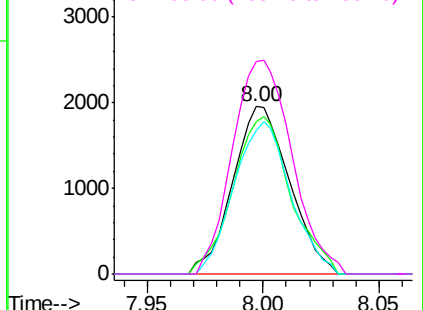


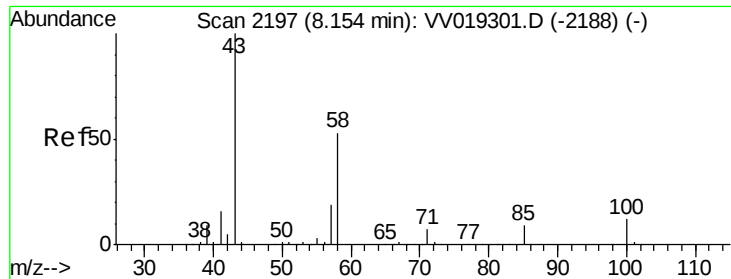
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

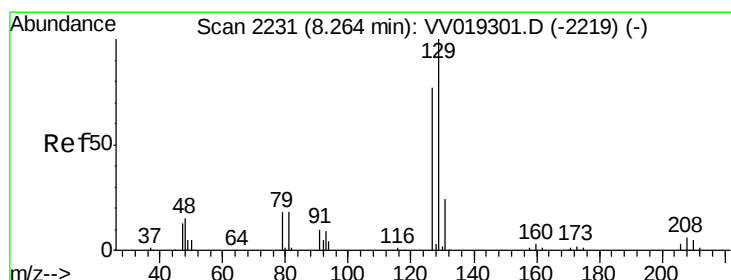
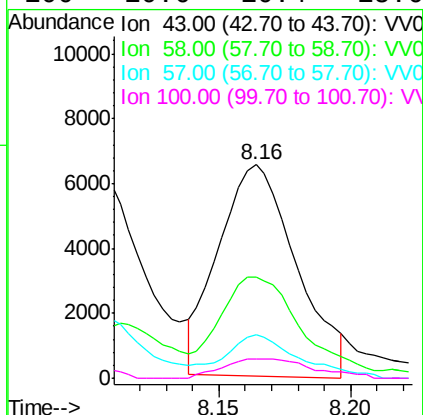
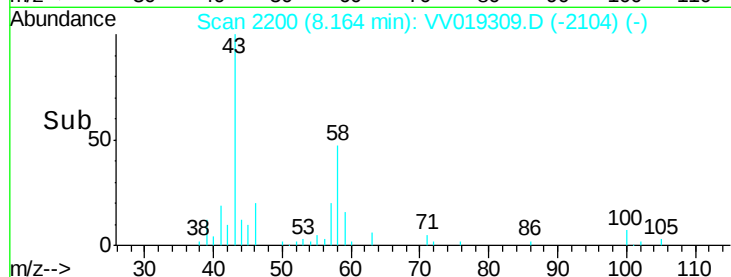
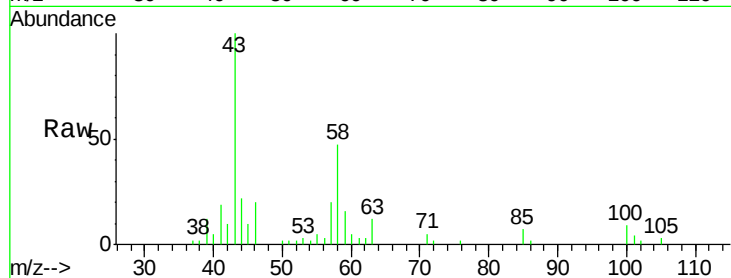




#48
2-Hexanone
Concen: 8.377 ug/L m
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

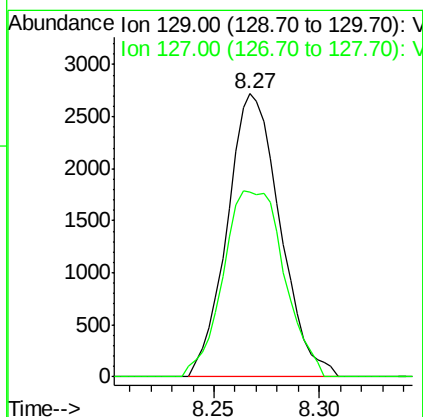
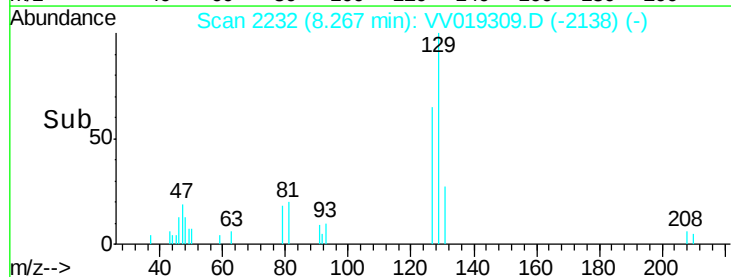
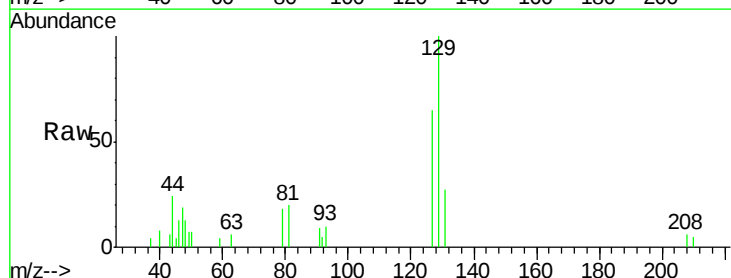
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

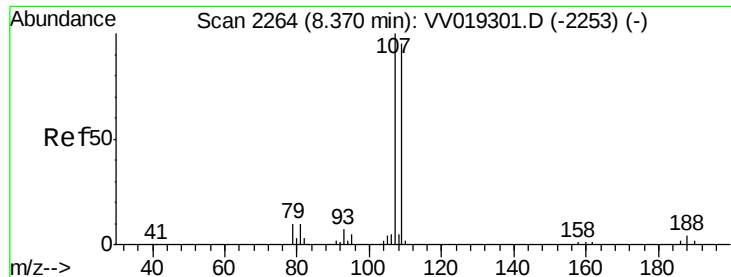
Tot Ion: 43 Resp: 13481
Ion Ratio Lower Upper
43 100
58 45.0 42.6 63.8
57 18.4 15.8 23.8
100 10.6 10.4 15.6



#49
Dibromochloromethane
Concen: 2.539 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

Tgt Ion: 129 Resp: 4742
Ion Ratio Lower Upper
129 100
127 65.3 54.4 101.0

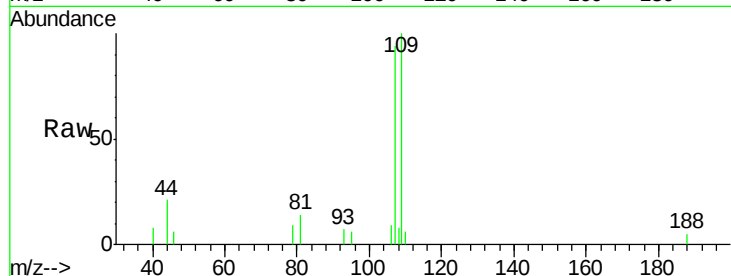




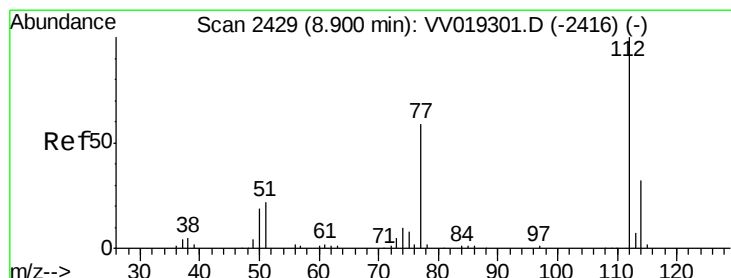
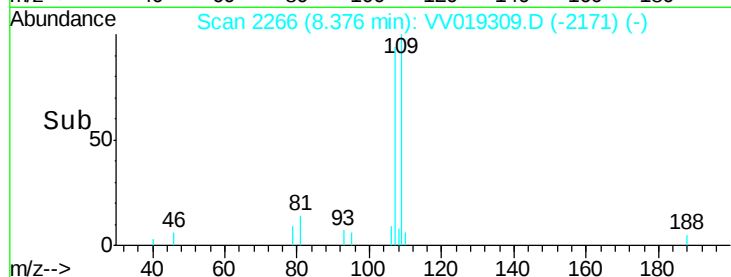
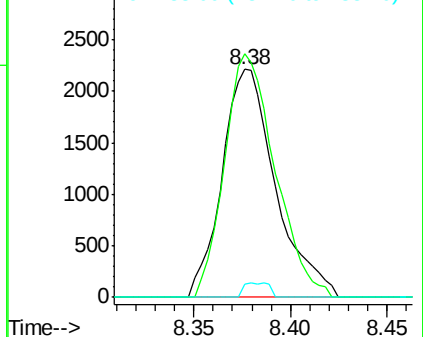
#50
 1,2-Dibromoethane
 Concen: 2.621 ug/L
 RT: 8.38 min Scan# 2266
 Delta R.T. 0.01 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

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

Tot Ion:107 Resp: 4255
 Ion Ratio Lower Upper
 107 100
 109 106.7 64.8 120.4
 188 5.6 3.8 5.8

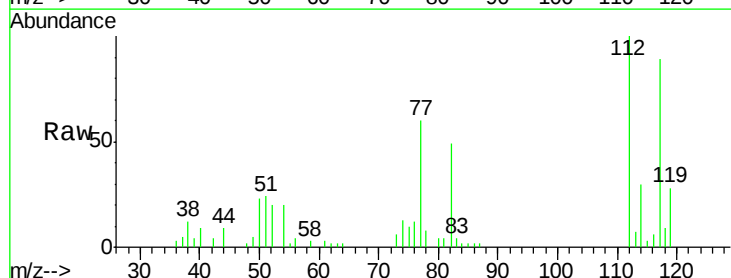


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

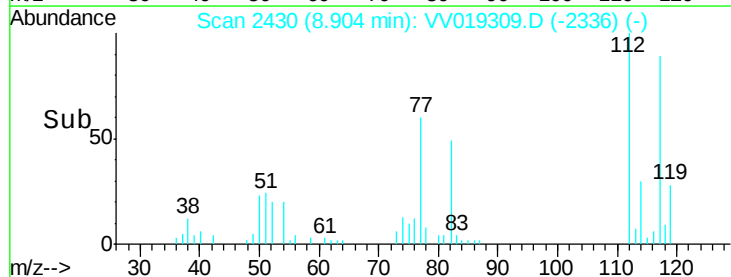
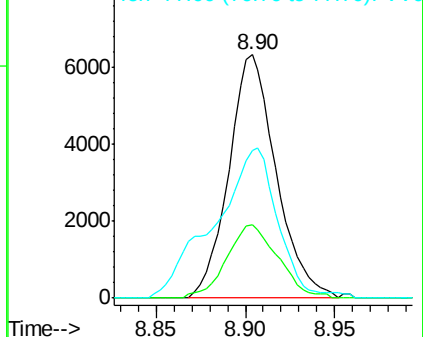


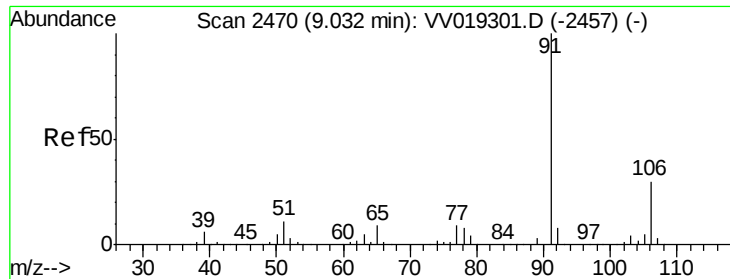
#51
 Chlorobenzene
 Concen: 2.722 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

Tgt Ion:112 Resp: 11686
 Ion Ratio Lower Upper
 112 100
 114 30.0 22.7 42.1
 77 60.5 47.3 70.9



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 2.348 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

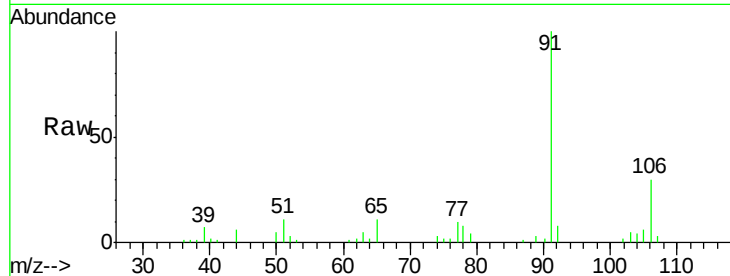
MDL-ME-SOIL-05

Tot Ion: 91 Resp: 16627

Ion Ratio Lower Upper

91 100

106 30.0 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV019309.D (-2457) (-)

Ion 106.00 (105.70 to 106.70): VV019309.D (-2457) (-)

9.04

10000

8000

6000

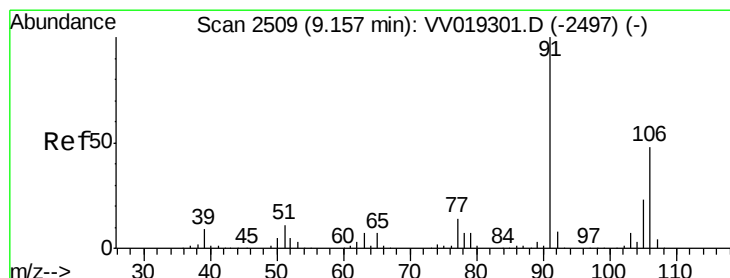
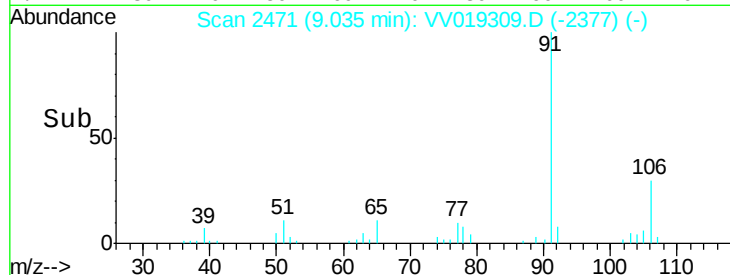
4000

2000

0

Time-->

9.00 9.05 9.10



#53

m,p-Xylene

Concen: 2.275 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV019309.D

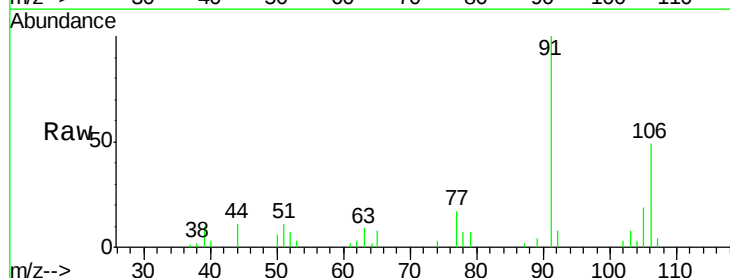
Acq: 09 Nov 2020 17:59

Tgt Ion: 106 Resp: 6032

Ion Ratio Lower Upper

106 100

91 205.3 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019309.D (-2497) (-)

Ion 91.00 (90.70 to 91.70): VV019309.D (-2497) (-)

9.16

8000

6000

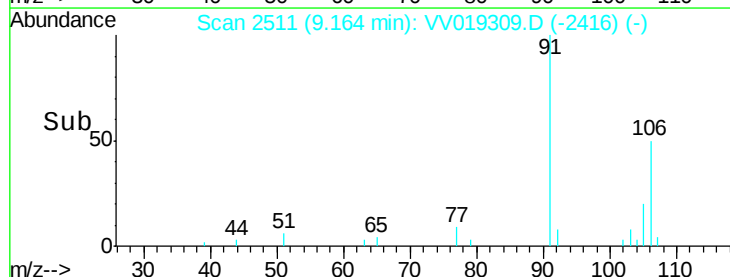
4000

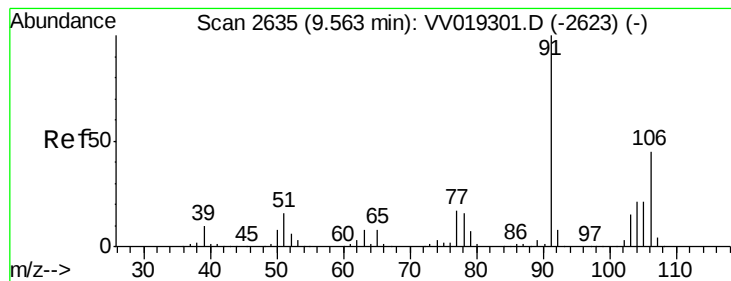
2000

0

Time-->

9.10 9.15 9.20





#54

o-Xylene

Concen: 2.189 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

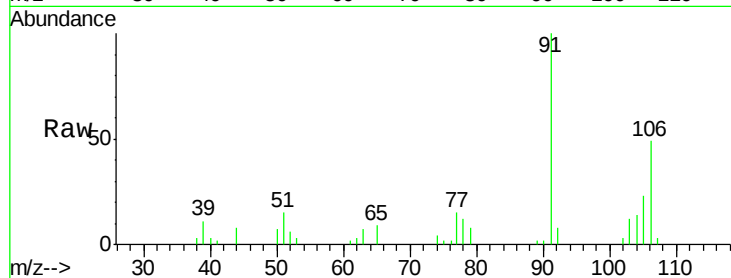
MDL-ME-SOIL-05

Tot Ion:106 Resp: 5719

Ion Ratio Lower Upper

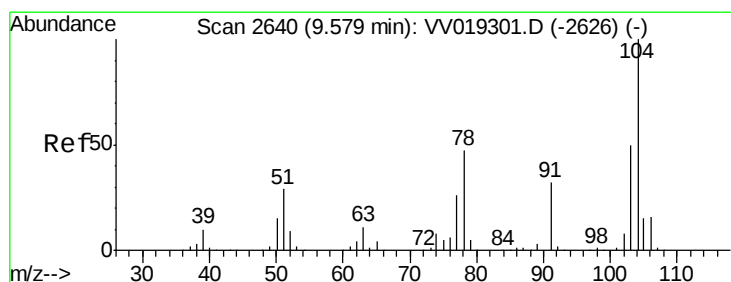
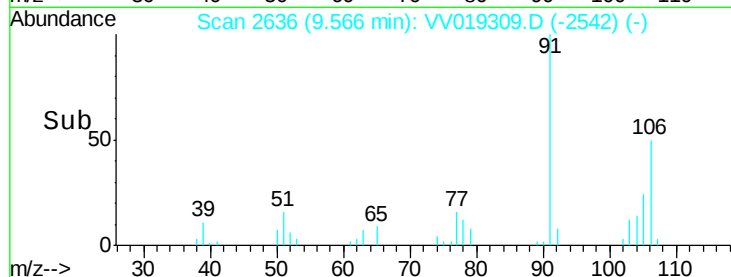
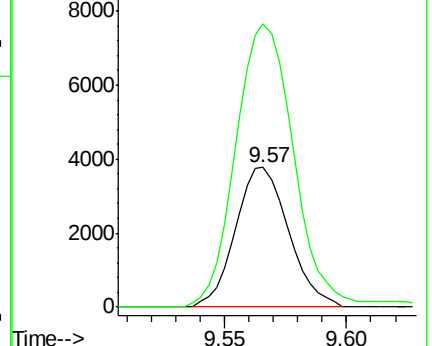
106 100

91 202.4 151.6 281.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 2.084 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019309.D

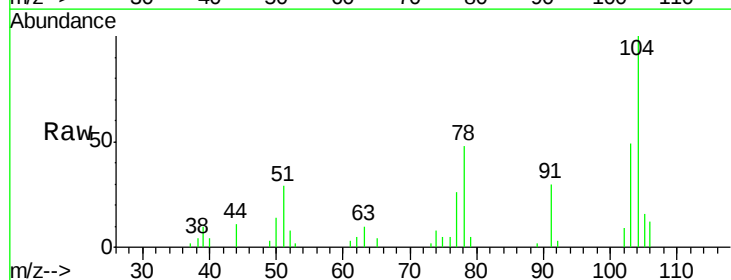
Acq: 09 Nov 2020 17:59

Tgt Ion:104 Resp: 9693

Ion Ratio Lower Upper

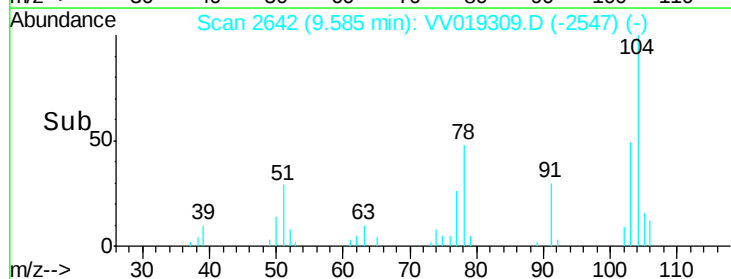
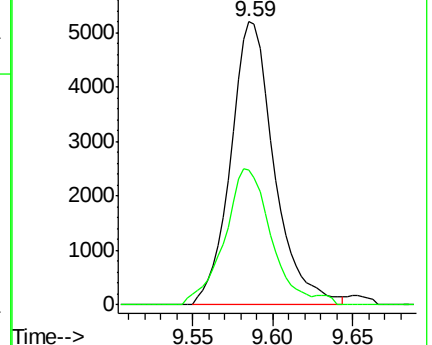
104 100

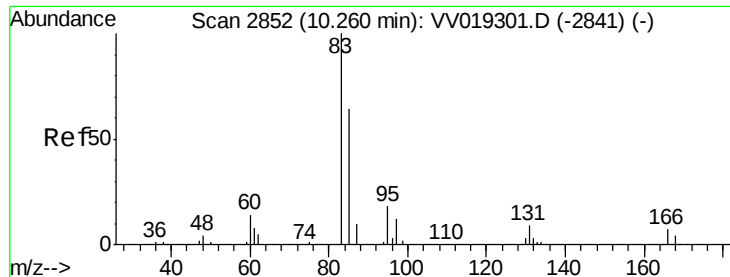
78 47.5 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

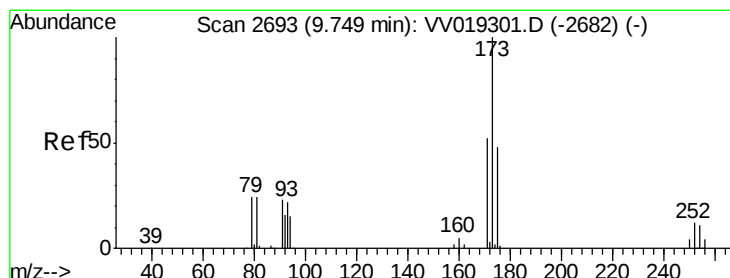
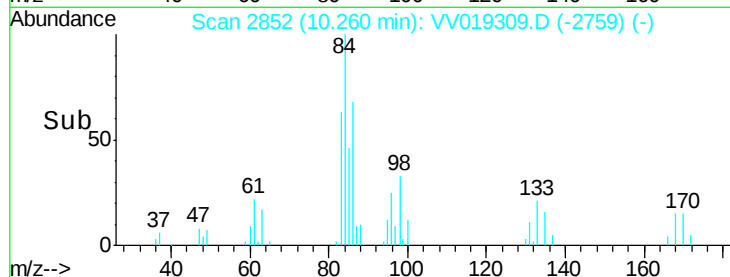
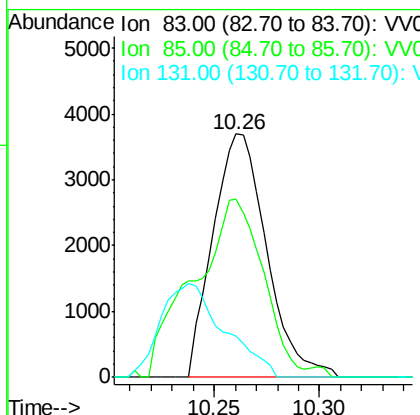
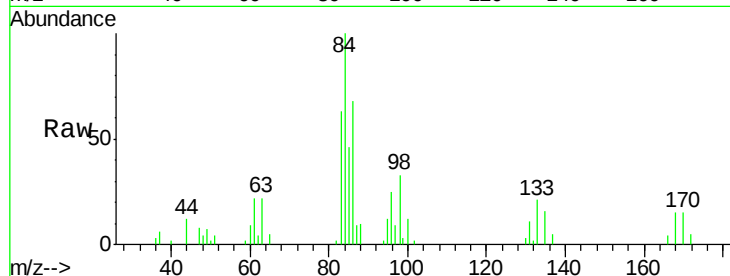




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.757 ug/L
 RT: 10.26 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

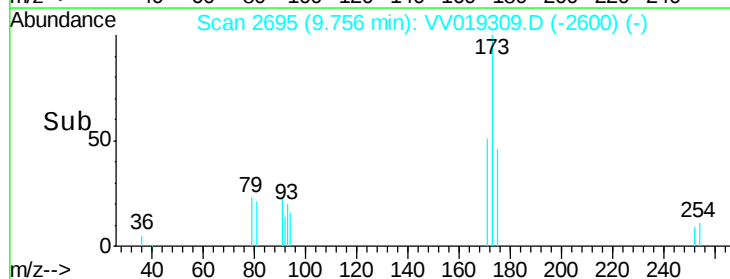
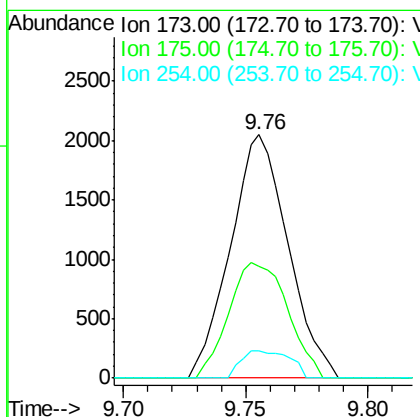
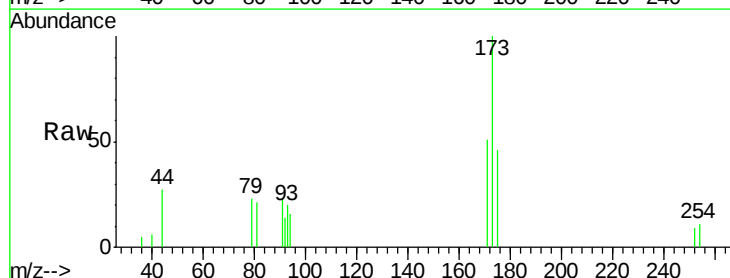
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

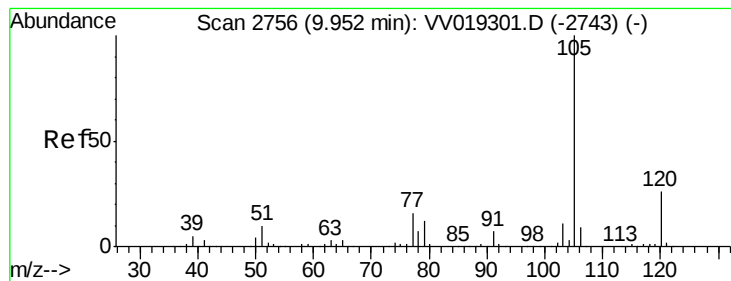
Tot Ion: 83 Resp: 6533
 Ion Ratio Lower Upper
 83 100
 85 73.1 45.0 83.6
 131 17.1 8.9 13.3#



#59
 Bromoform
 Concen: 2.560 ug/L
 RT: 9.76 min Scan# 2695
 Delta R.T. 0.01 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

Tgt Ion: 173 Resp: 3356
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.4 57.6
 254 5.4 9.0 13.6#





#60

Isopropylbenzene

Concen: 2.413 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

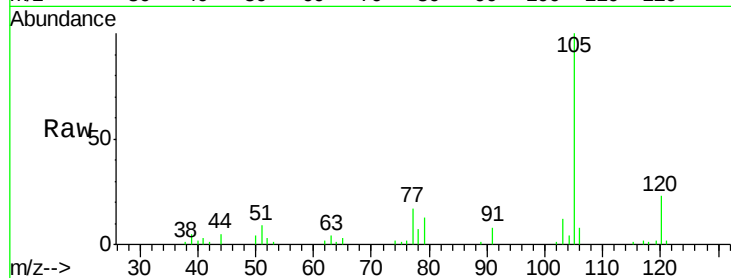
Tot Ion: 105 Resp: 14937

Ion Ratio Lower Upper

105 100

120 24.9 21.0 31.4

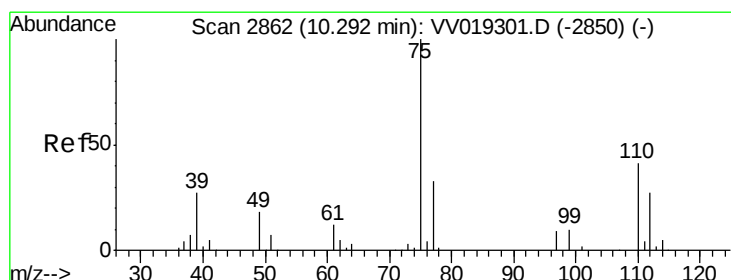
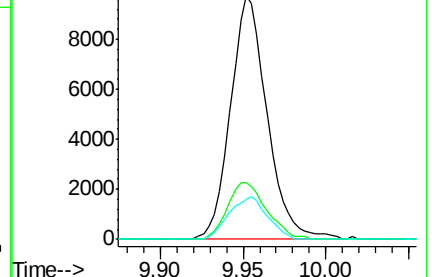
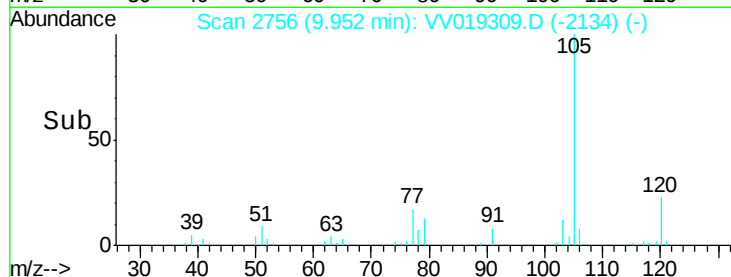
77 18.2 13.0 19.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 3.173 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

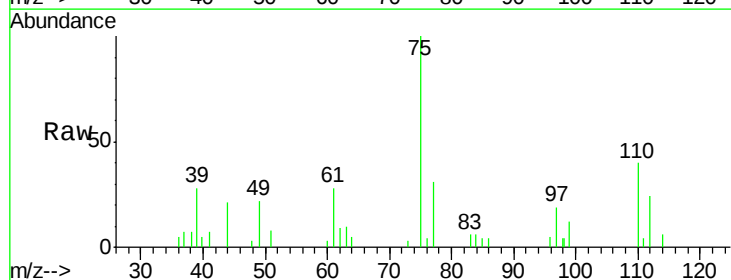
Tgt Ion: 75 Resp: 5822

Ion Ratio Lower Upper

75 100

77 30.4 24.8 37.2

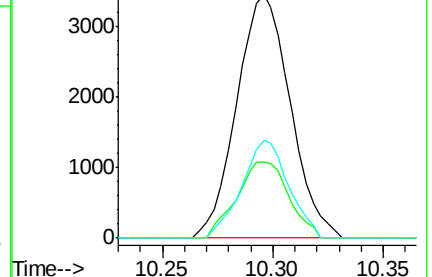
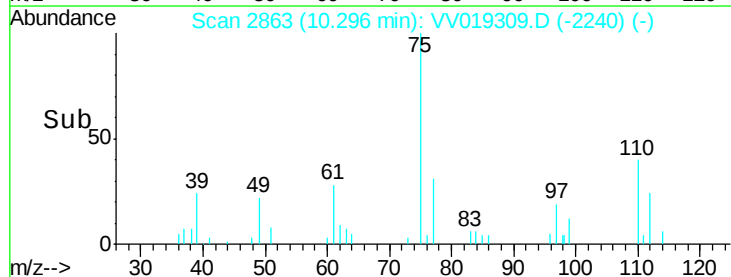
110 35.2 33.4 50.2

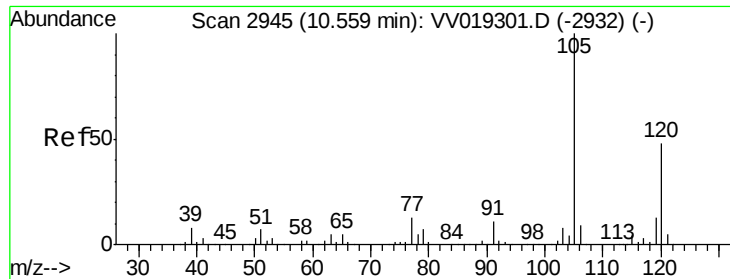


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

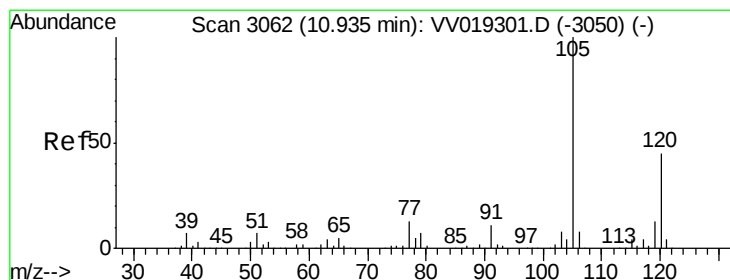
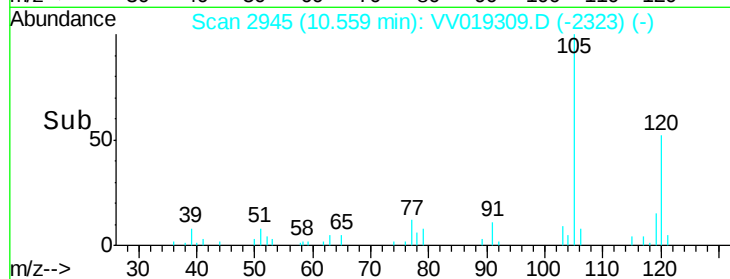
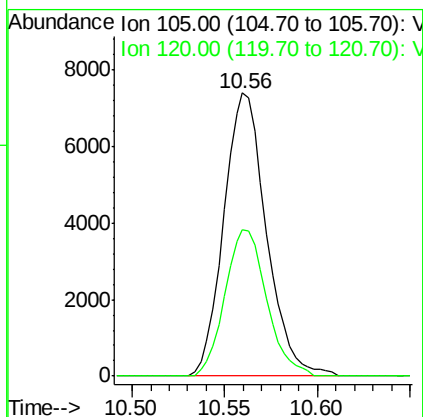
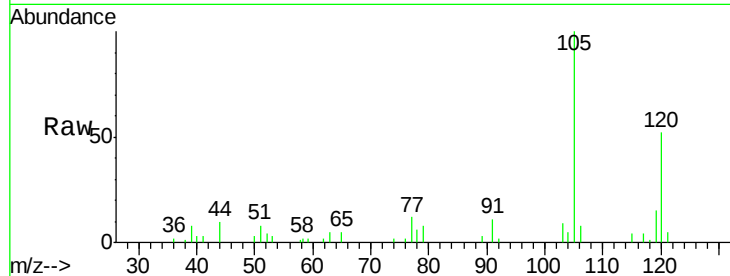




#62
 1,3,5-Trimethylbenzene
 Concen: 2.291 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

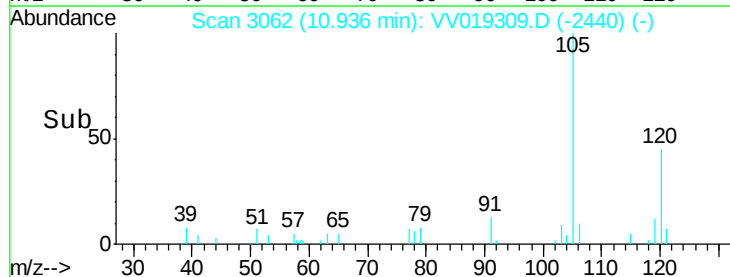
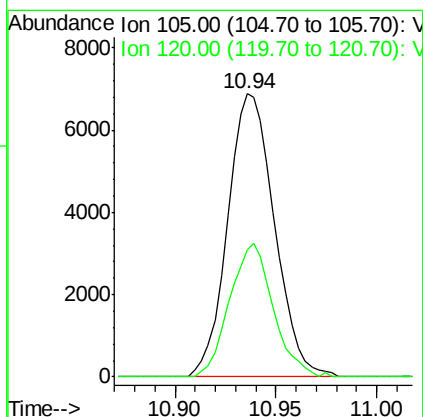
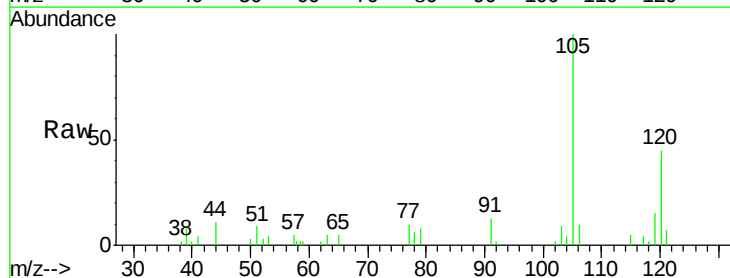
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

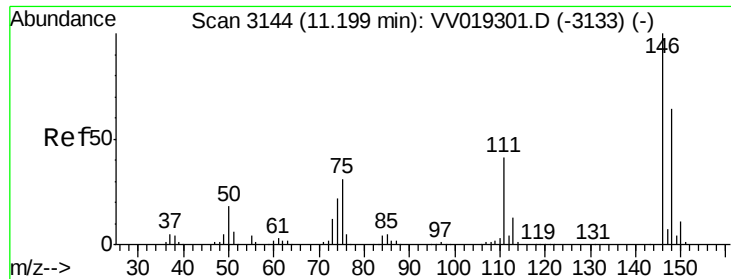
Tot Ion:105 Resp: 11812
 Ion Ratio Lower Upper
 105 100
 120 50.5 38.3 57.5



#63
 1,2,4-Trimethylbenzene
 Concen: 2.215 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

Tgt Ion:105 Resp: 11174
 Ion Ratio Lower Upper
 105 100
 120 43.7 35.7 53.5

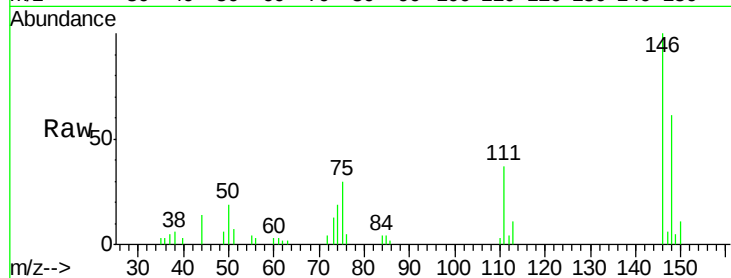




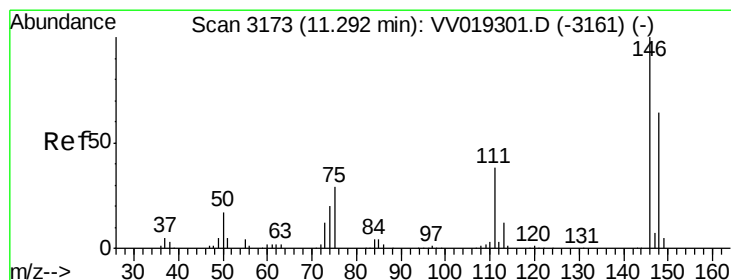
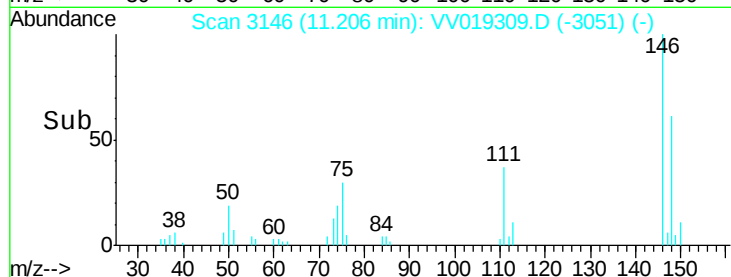
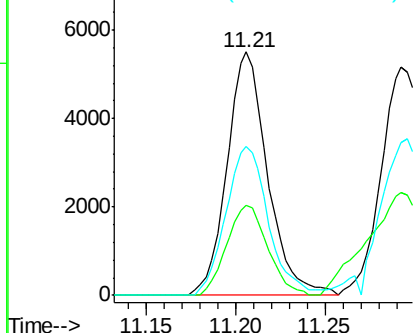
#64
 1,3-Dichlorobenzene
 Concen: 2.676 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.01 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

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

Tot Ion:146 Resp: 8665
 Ion Ratio Lower Upper
 146 100
 111 36.9 27.3 50.7
 148 61.1 45.2 84.0

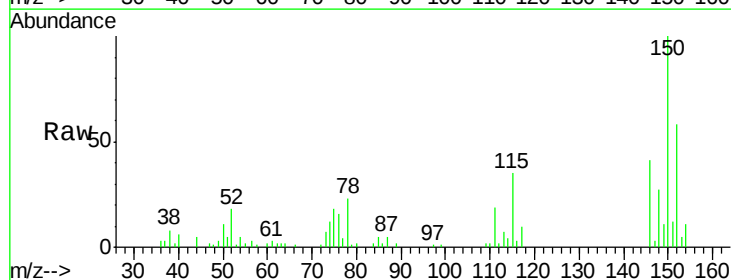


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

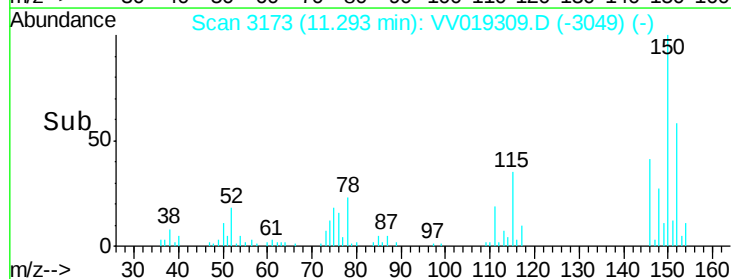
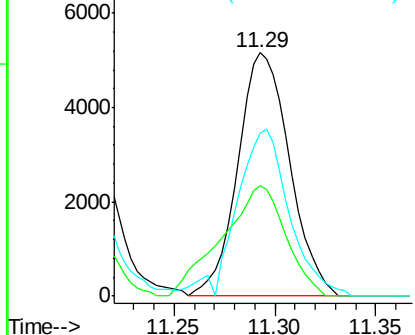


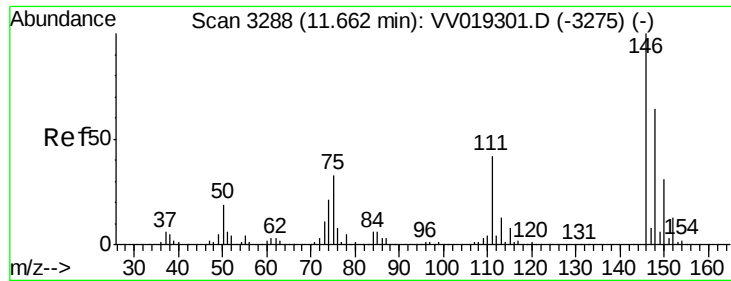
#65
 1,4-Dichlorobenzene
 Concen: 2.771 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

Tgt Ion:146 Resp: 9282
 Ion Ratio Lower Upper
 146 100
 111 45.3 25.9 48.1
 148 67.0 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#67

1,2-Dichlorobenzene

Concen: 2.871 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

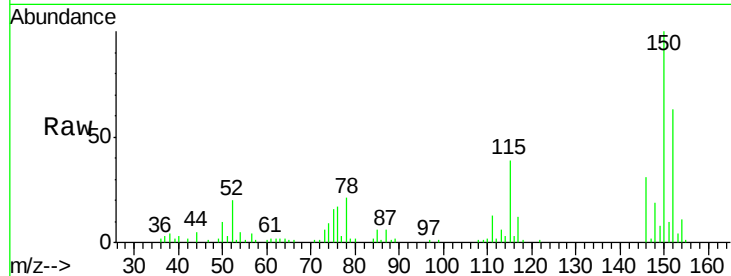
Tot Ion:146 Resp: 9511

Ion Ratio Lower Upper

146 100

111 44.1 32.6 48.8

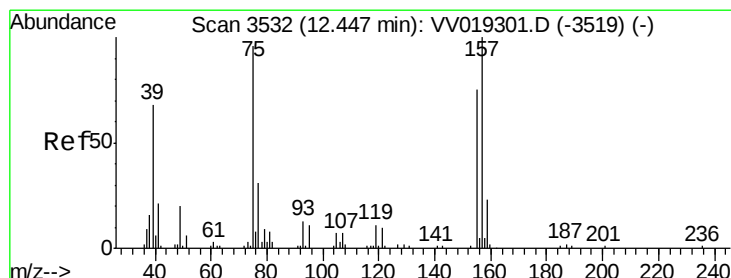
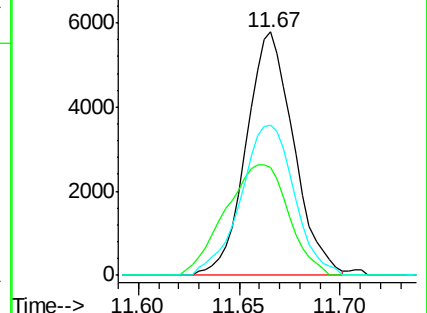
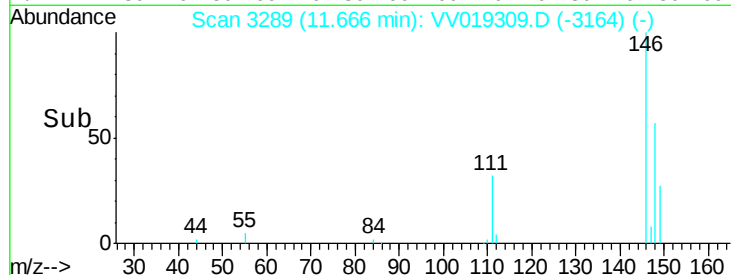
148 61.6 50.1 75.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 2.725 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019309.D

Acq: 09 Nov 2020 17:59

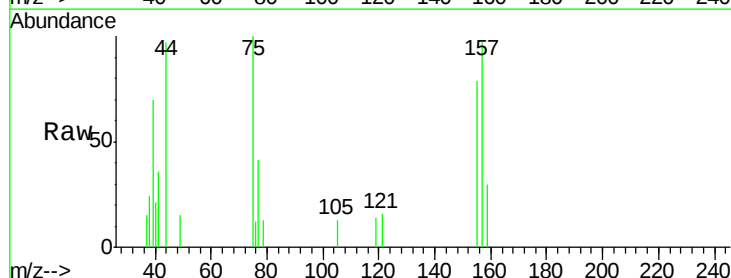
Tgt Ion: 75 Resp: 1459

Ion Ratio Lower Upper

75 100

155 79.3 65.8 98.6

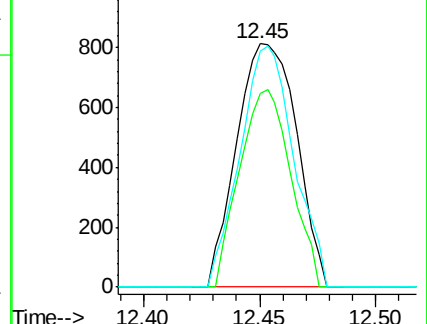
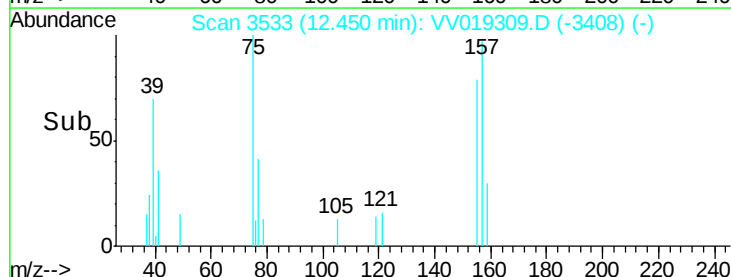
157 96.8 86.3 129.5

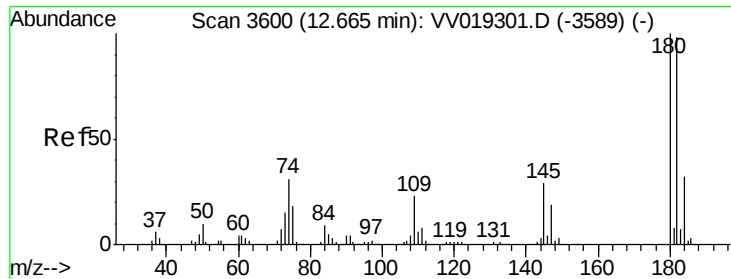


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

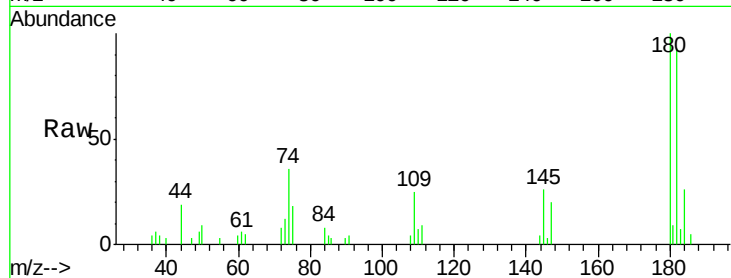




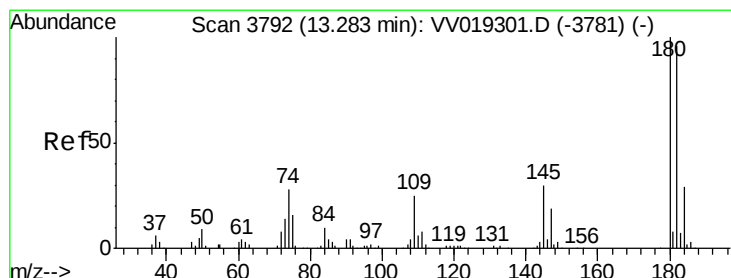
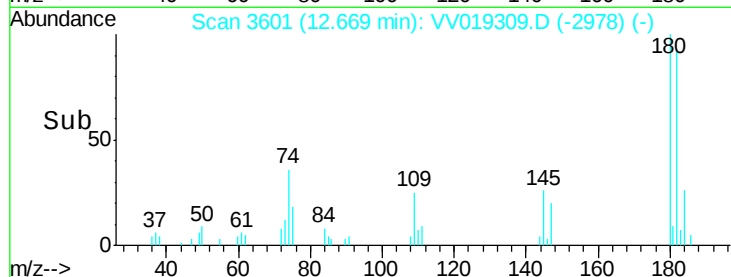
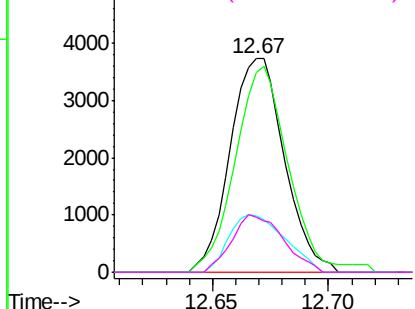
#69
 1,3,5-Trichlorobenzene
 Concen: 2.604 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

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

Tot Ion:180 Resp: 6053
 Ion Ratio Lower Upper
 180 100
 182 93.1 77.7 116.5
 184 27.8 24.9 37.3
 145 25.7 23.4 35.0

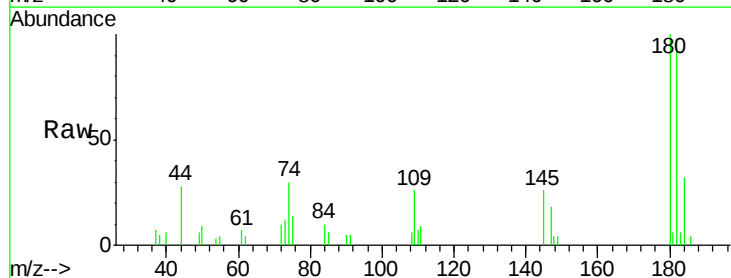


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

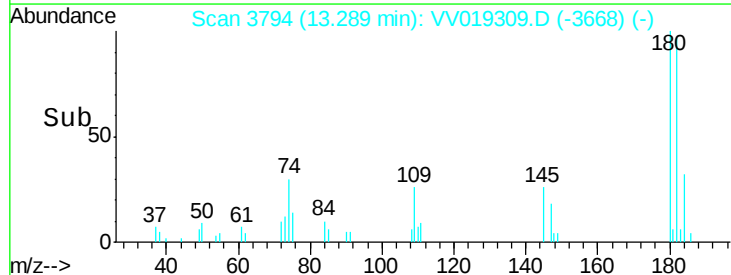
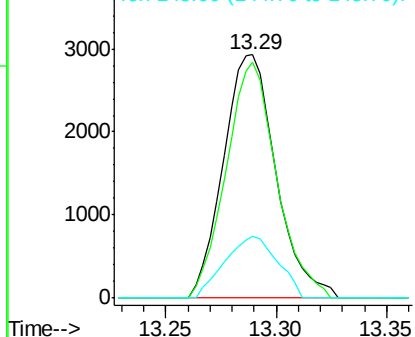


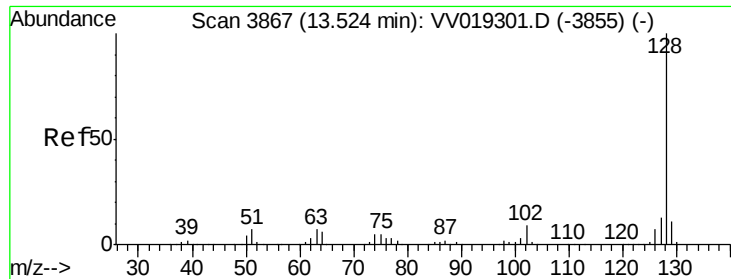
#70
 1,2,4-trichlorobenzene
 Concen: 2.220 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019309.D
 Acq: 09 Nov 2020 17:59

Tgt Ion:180 Resp: 4856
 Ion Ratio Lower Upper
 180 100
 182 92.5 76.6 114.8
 145 25.5 23.2 34.8



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

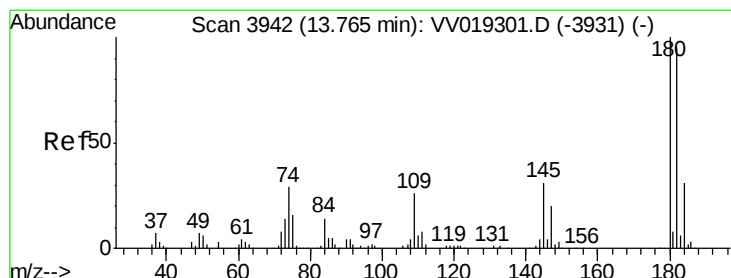
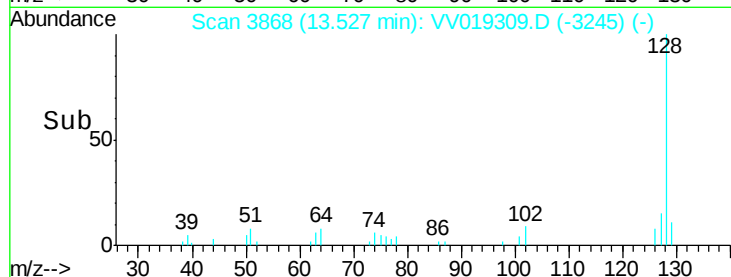
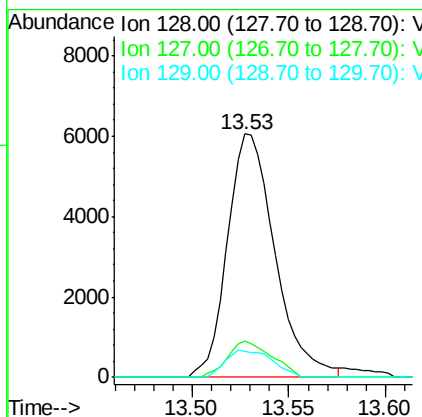
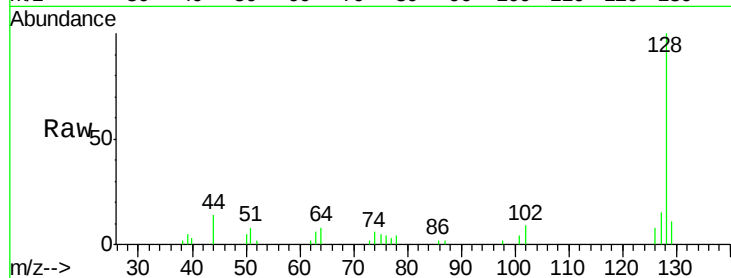




#71
Naphthalene
Concen: 1.681 ug/L
RT: 13.53 min Scan# 3868
Delta R.T. 0.00 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

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

Tot Ion:128 Resp: 10368
Ion Ratio Lower Upper
128 100
127 13.9 10.7 16.1
129 11.0 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 2.231 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VV019309.D
Acq: 09 Nov 2020 17:59

Tgt Ion:180 Resp: 4837
Ion Ratio Lower Upper
180 100
182 97.2 77.4 116.0
145 33.8 24.7 37.1

