

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110920\
 Data File : VV019308.D
 Acq On : 09 Nov 2020 17:35
 Operator : SY/MD
 Sample : L4485-18
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Quant Time: Nov 10 13:11:30 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	259488	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	249822	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	127472	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	76070	37.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.98%
7) Chloroethane-d5	1.58	69	69783	44.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.94%
11) 1,1-Dichloroethene-d2	2.12	63	125897	33.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.92%
21) 2-Butanone-d5	3.91	46	127652	115.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.60%
24) Chloroform-d	4.37	84	165771	44.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.46%
26) 1,2-Dichloroethane-d4	5.06	65	118117	45.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.46%
32) Benzene-d6	5.07	84	306191	44.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.78%
36) 1,2-Dichloropropane-d6	6.09	67	101927	49.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.98%
41) Toluene-d8	7.34	98	273343	42.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.08%
43) trans-1,3-Dichloropropene-	7.64	79	51245	43.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.88%
47) 2-Hexanone-d5	8.11	63	75793	94.79	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.79%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	127284	46.38	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.76%
66) 1,2-Dichlorobenzene-d4	11.65	152	119274	46.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.54%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3266	2.054 ug/L	97
3) Chloromethane	1.25	50	4468	2.699 ug/L	97
5) Vinyl chloride	1.32	62	4593	2.666 ug/L #	59
6) Bromomethane	1.53	94	3012	2.601 ug/L	96
8) Chloroethane	1.60	64	3157	2.801 ug/L	98
9) Trichlorofluoromethane	1.77	101	7580	2.657 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4765	3.516 ug/L #	82
12) 1,1-Dichloroethene	2.13	96	4555	3.252 ug/L #	1
13) Acetone	2.20	43	5146	6.128 ug/L	99
14) Carbon disulfide	2.31	76	9586	2.383 ug/L	96
15) Methyl Acetate	2.46	43	4433	2.725 ug/L #	83
16) Methylene chloride	2.52	84	4375	2.627 ug/L	95
17) trans-1,2-Dichloroethene	2.78	96	3501	2.304 ug/L	94
18) Methyl tert-butyl Ether	2.79	73	12218	2.287 ug/L	97
19) 1,1-Dichloroethane	3.22	63	7574	2.544 ug/L	98
20) cis-1,2-Dichloroethene	3.94	96	4083	2.431 ug/L	92
22) 2-Butanone	4.04	43	5592m	5.246 ug/L	

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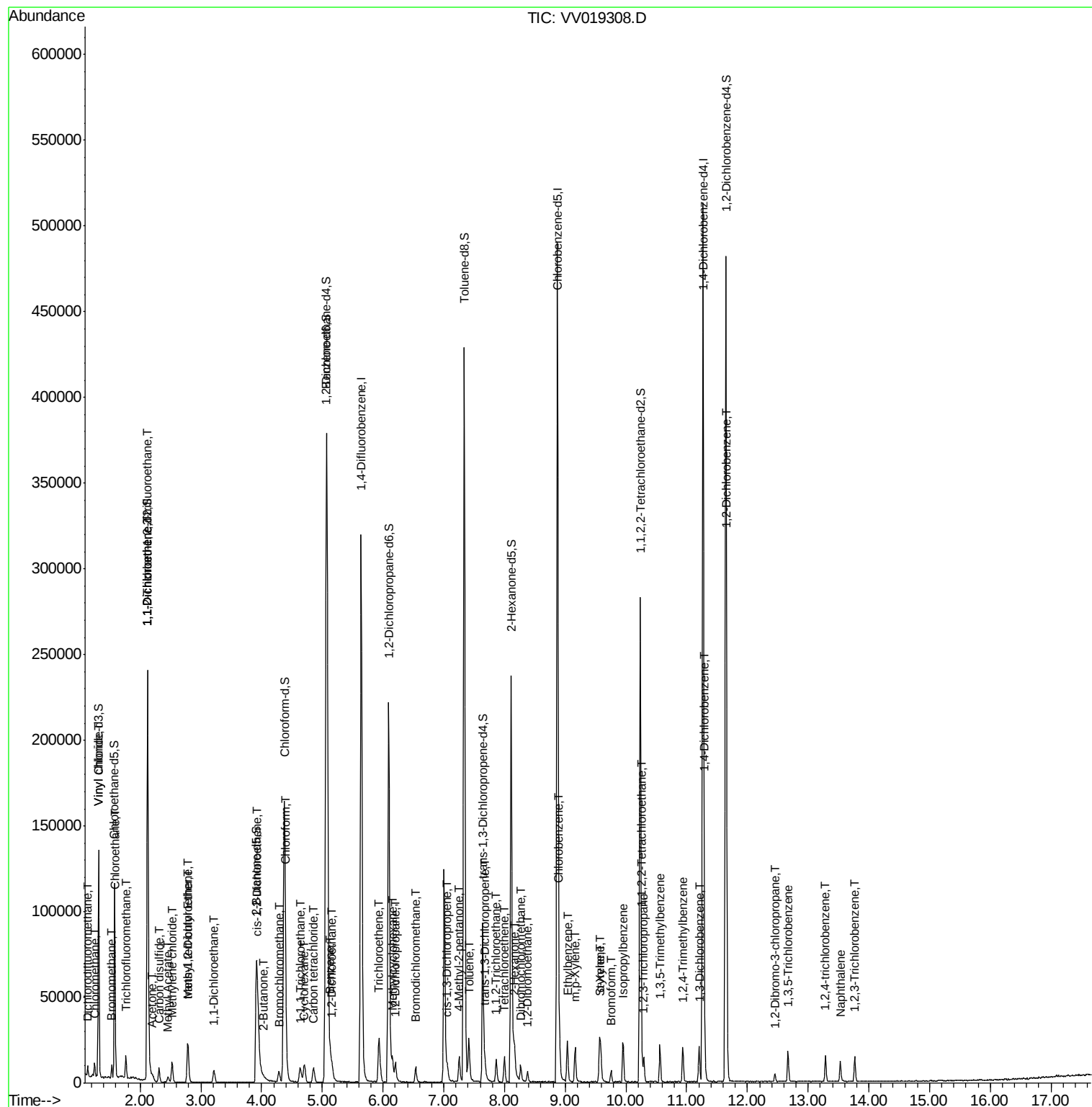
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	2096	2.267	ug/L	94
25) Chloroform	4.40	83	9220	2.888	ug/L	93
27) 1,2-Dichloroethane	5.17	62	6882	2.536	ug/L #	90
29) Cyclohexane	4.70	56	5036	2.356	ug/L	98
30) 1,1,1-Trichloroethane	4.64	97	7118	2.457	ug/L	99
31) Carbon tetrachloride	4.86	117	6325	2.528	ug/L	97
33) Benzene	5.13	78	16114	2.595	ug/L	100
34) Trichloroethene	5.94	95	4639	2.749	ug/L	96
35) Methylcyclohexane	6.15	83	5257	2.574	ug/L	96
37) 1,2-Dichloropropane	6.20	63	3953	2.386	ug/L #	88
38) Bromodichloromethane	6.54	83	5454	2.287	ug/L	85
39) cis-1,3-Dichloropropene	7.06	75	6333m	2.389	ug/L	
40) 4-Methyl-2-pentanone	7.25	43	9962	4.475	ug/L	98
42) Toluene	7.41	91	17846	2.659	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	6613	2.434	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	3866	2.361	ug/L	96
46) Tetrachloroethene	8.00	164	3534	2.567	ug/L	93
48) 2-Hexanone	8.16	43	13039m	7.748	ug/L	
49) Dibromochloromethane	8.27	129	4340	2.222	ug/L	94
50) 1,2-Dibromoethane	8.38	107	4155	2.448	ug/L	98
51) Chlorobenzene	8.90	112	10637	2.370	ug/L	91
52) Ethylbenzene	9.04	91	16464	2.224	ug/L	93
53) m,p-Xylene	9.16	106	6266	2.261	ug/L	85
54) o-Xylene	9.57	106	5803	2.124	ug/L	82
55) Styrene	9.59	104	9278	1.908	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.26	83	6013	2.427	ug/L	97
59) Bromoform	9.76	173	3254	2.300	ug/L #	95
60) Isopropylbenzene	9.95	105	15031	2.250	ug/L	98
61) 1,2,3-Trichloropropane	10.29	75	5257	2.655	ug/L	99
62) 1,3,5-Trimethylbenzene	10.56	105	11468	2.061	ug/L	98
63) 1,2,4-Trimethylbenzene	10.94	105	10703	1.966	ug/L	96
64) 1,3-Dichlorobenzene	11.21	146	8271	2.367	ug/L	96
65) 1,4-Dichlorobenzene	11.30	146	9322	2.578	ug/L	95
67) 1,2-Dichlorobenzene	11.67	146	9121	2.551	ug/L #	89
68) 1,2-Dibromo-3-chloropropan	12.45	75	1234	2.136	ug/L	90
69) 1,3,5-Trichlorobenzene	12.67	180	5857	2.335	ug/L	97
70) 1,2,4-trichlorobenzene	13.29	180	4864	2.061	ug/L	94
71) Naphthalene	13.53	128	10209	1.534	ug/L	98
72) 1,2,3-Trichlorobenzene	13.77	180	4652	1.988	ug/L	94

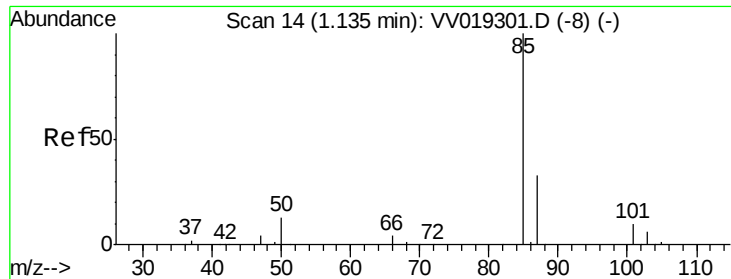
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.054 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

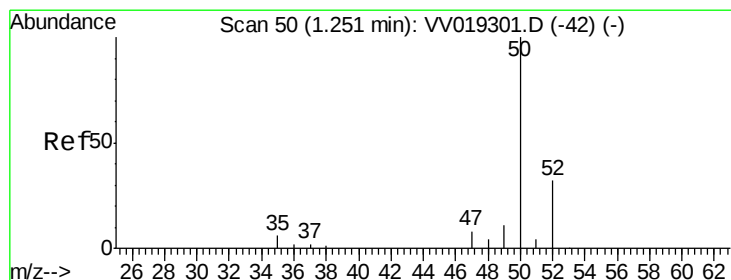
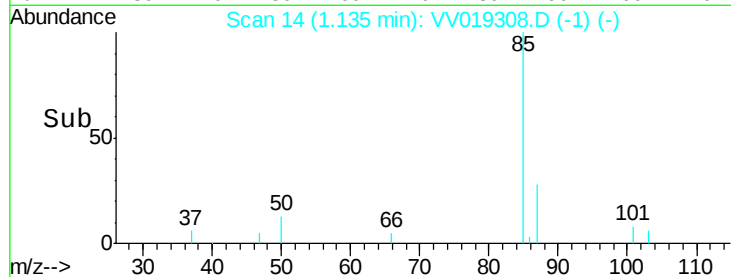
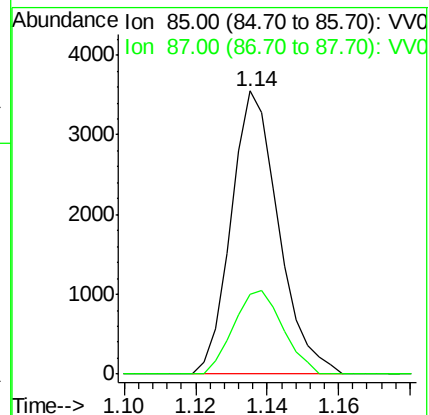
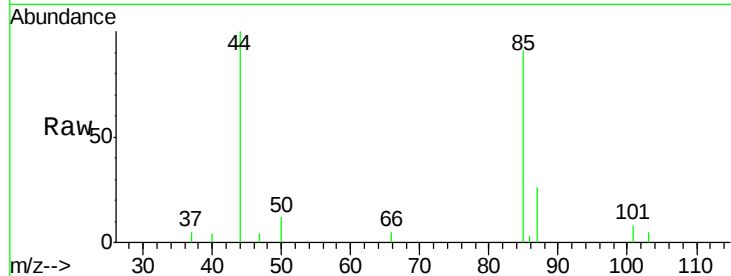
MDL-ME-SOIL-04

Tot Ion: 85 Resp: 3266

Ion Ratio Lower Upper

85 100

87 30.7 25.9 38.9



#3

Chloromethane

Concen: 2.699 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019308.D

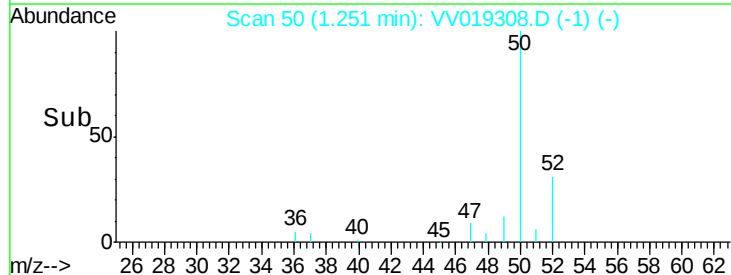
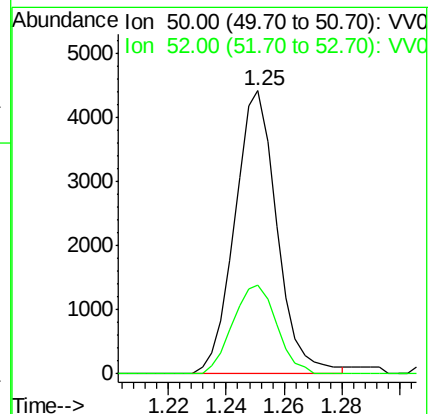
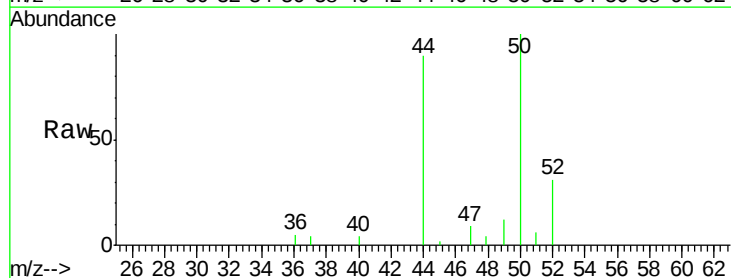
Acq: 09 Nov 2020 17:35

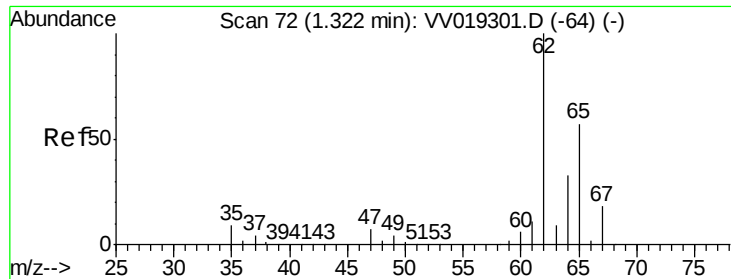
Tgt Ion: 50 Resp: 4468

Ion Ratio Lower Upper

50 100

52 31.2 23.0 42.6





#5

Vinyl chloride

Concen: 2.666 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleID :

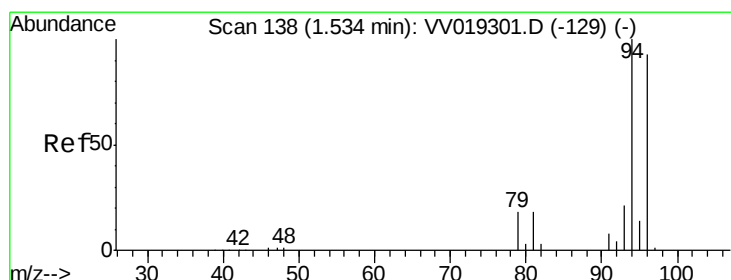
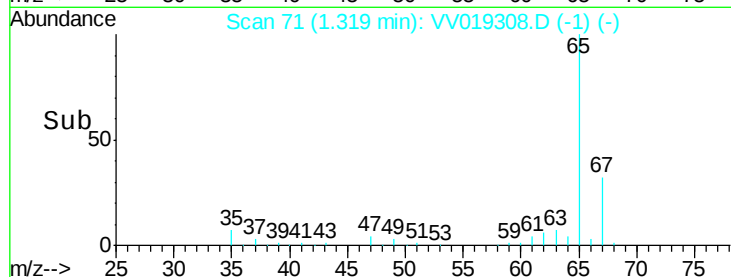
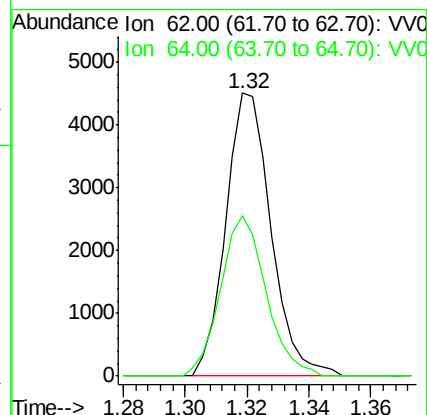
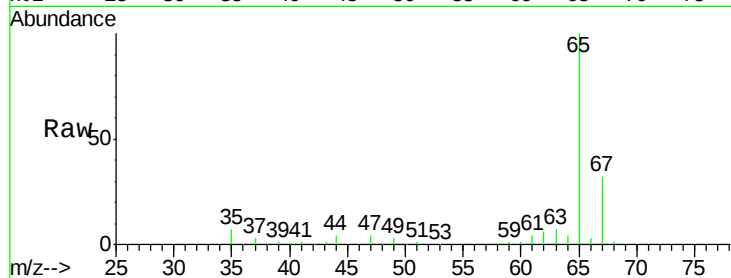
MDL-ME-SOIL-04

Tot Ion: 62 Resp: 4593

Ion Ratio Lower Upper

62 100

64 56.8 23.3 43.3#



#6

Bromomethane

Concen: 2.601 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019308.D

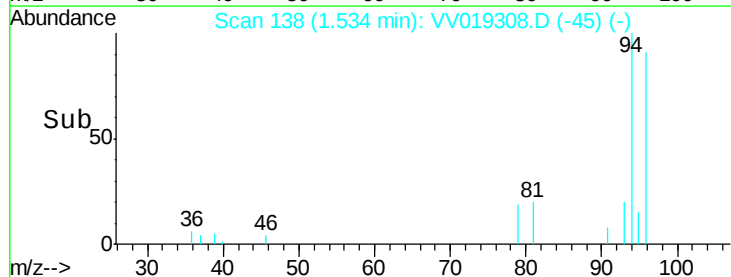
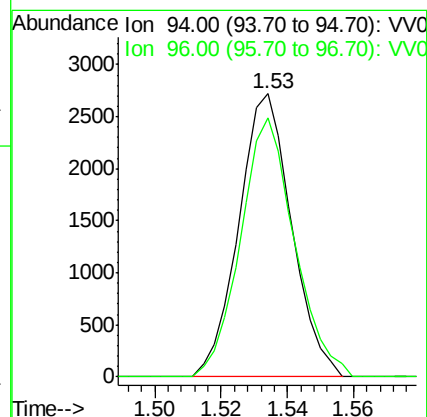
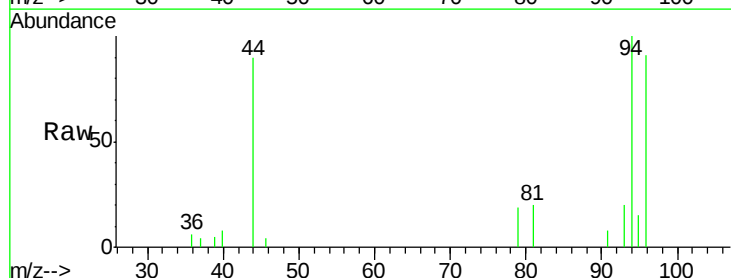
Acq: 09 Nov 2020 17:35

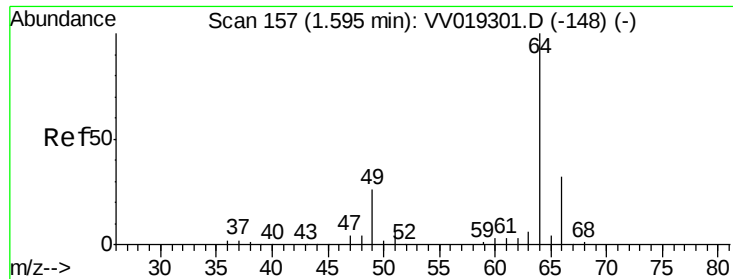
Tgt Ion: 94 Resp: 3012

Ion Ratio Lower Upper

94 100

96 91.3 66.4 123.2





#8

Chloroethane

Concen: 2.801 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

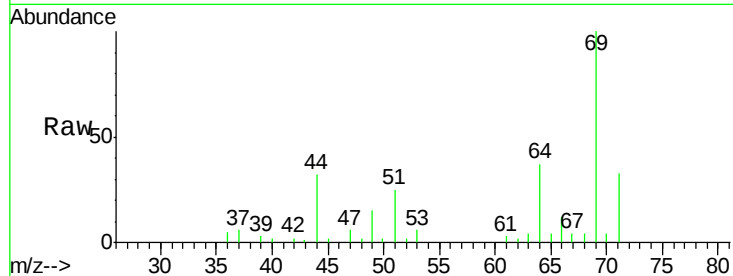
MDL-ME-SOIL-04

Tot Ion: 64 Resp: 3157

Ion Ratio Lower Upper

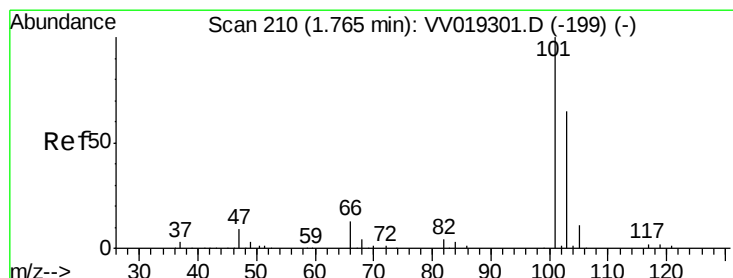
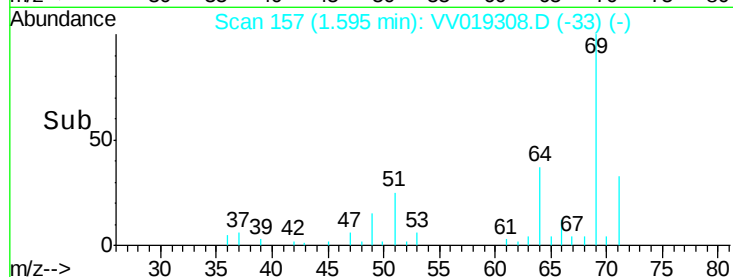
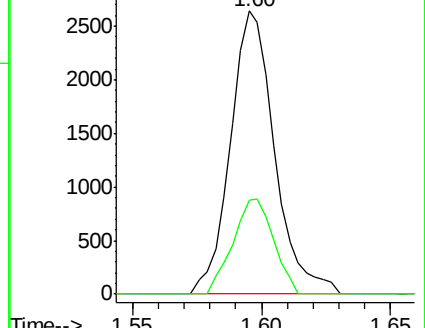
64 100

66 33.1 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019301.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV019301.D (-148) (-)



#9

Trichlorofluoromethane

Concen: 2.657 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV019308.D

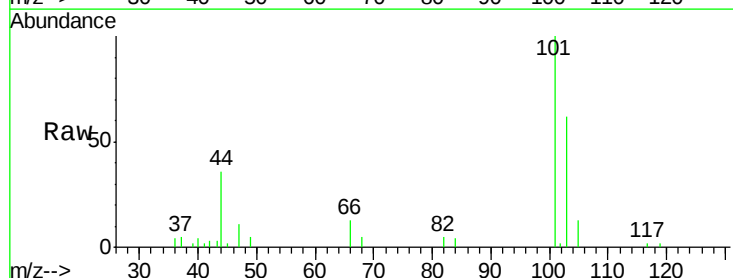
Acq: 09 Nov 2020 17:35

Tgt Ion: 101 Resp: 7580

Ion Ratio Lower Upper

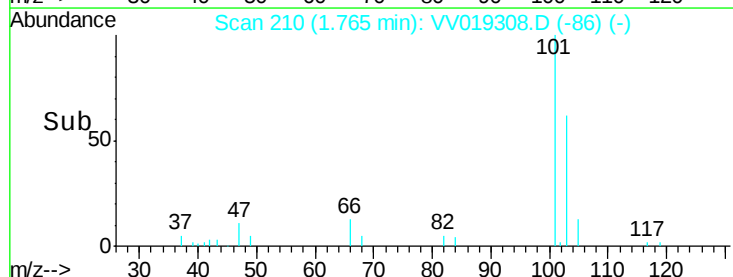
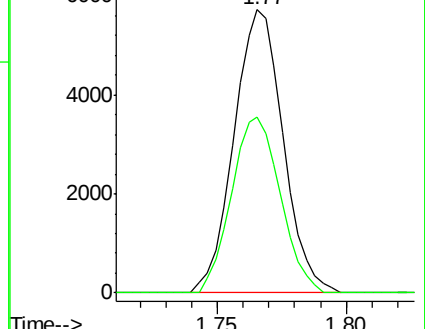
101 100

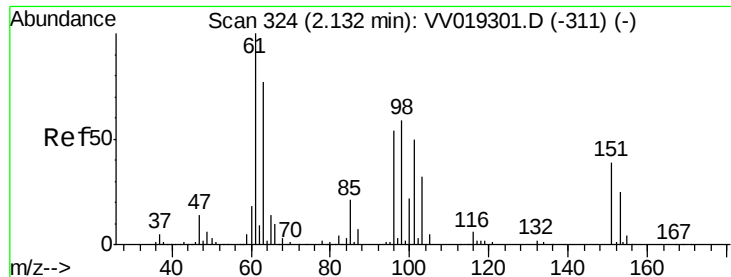
103 61.5 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019301.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV019301.D (-199) (-)





#10

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

Concen: 3.516 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

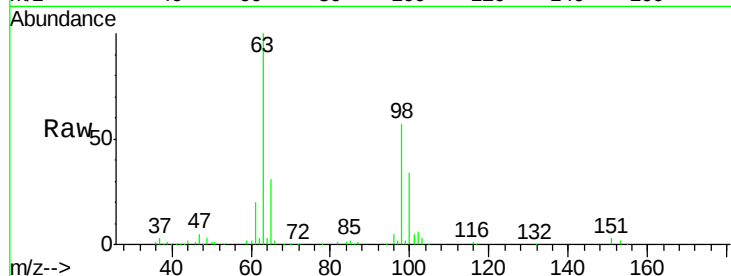
Tot Ion:101 Resp: 4765

Ion Ratio Lower Upper

101 100

85 34.9 35.6 53.4#

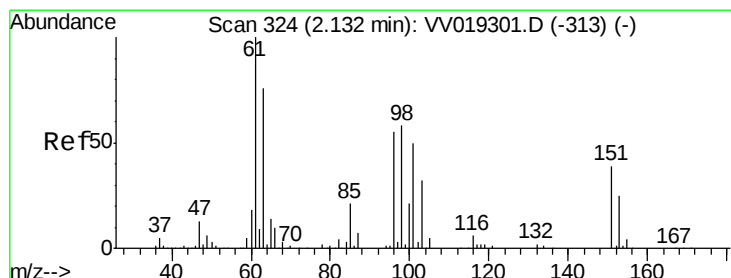
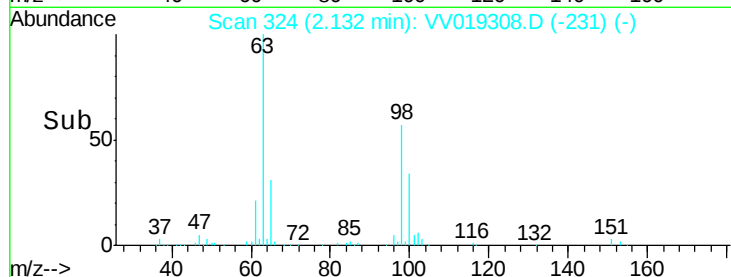
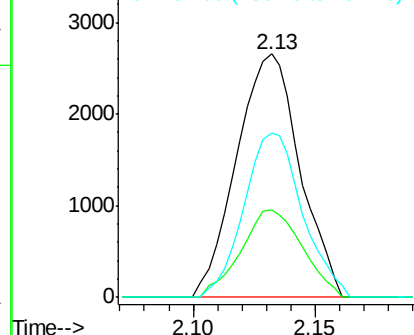
151 62.5 64.1 96.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.252 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

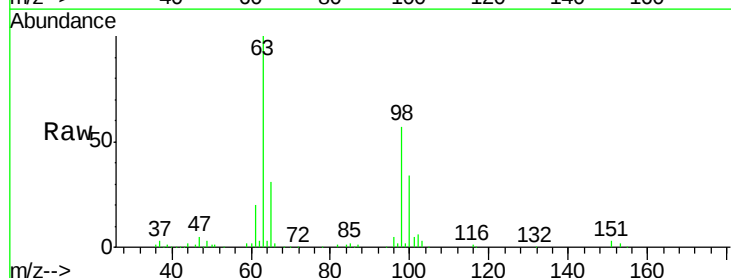
Tgt Ion: 96 Resp: 4555

Ion Ratio Lower Upper

96 100

61 380.1 133.6 248.0#

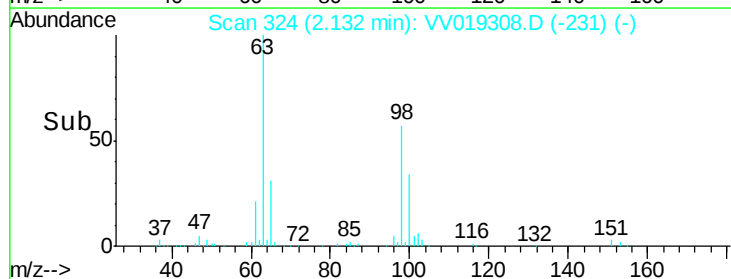
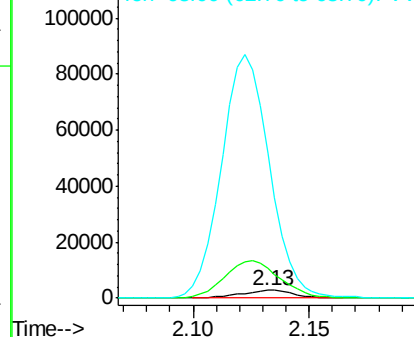
63 1854.4 103.0 191.2#

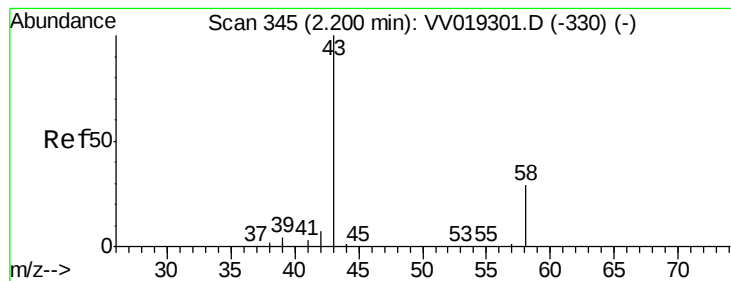


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.128 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

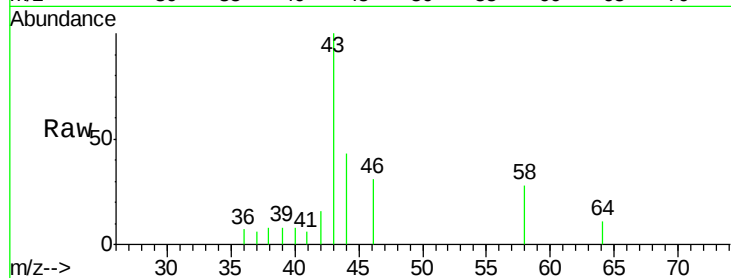
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 5146

Ion Ratio Lower Upper

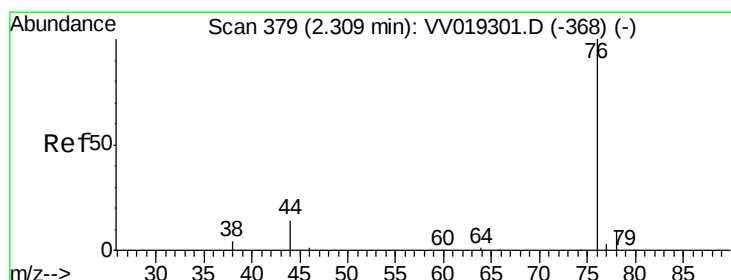
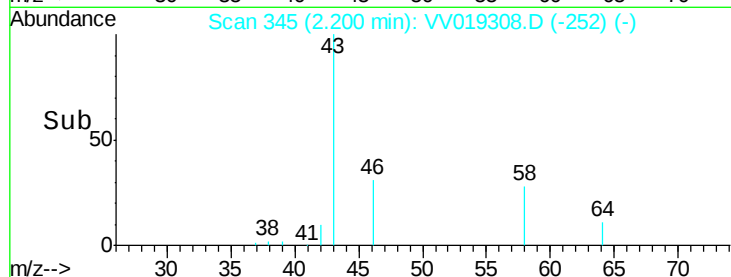
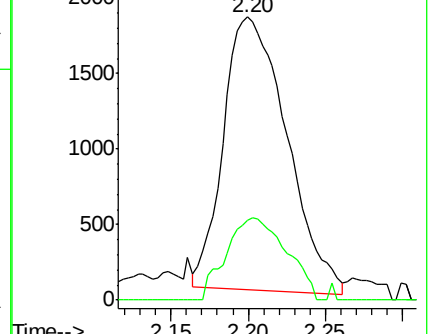
43 100

58 28.6 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV019308.D (-252) (-)

Ion 58.00 (57.70 to 58.70): VV019308.D (-252) (-)



#14

Carbon disulfide

Concen: 2.383 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019308.D

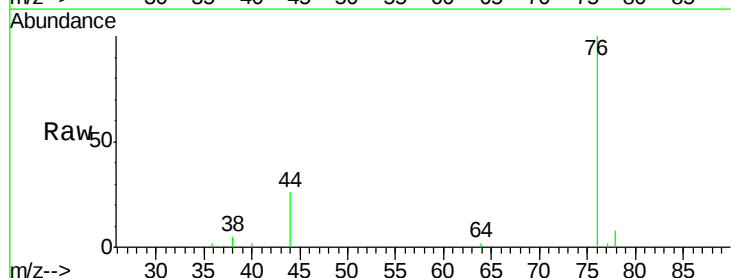
Acq: 09 Nov 2020 17:35

Tgt Ion: 76 Resp: 9586

Ion Ratio Lower Upper

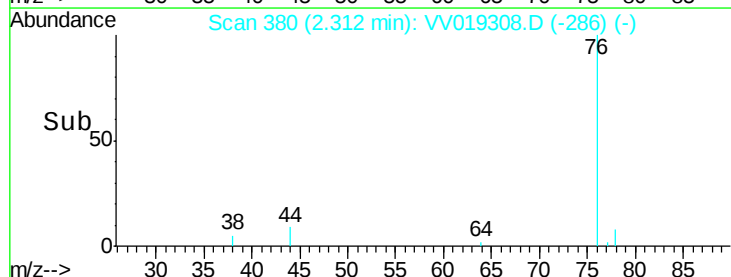
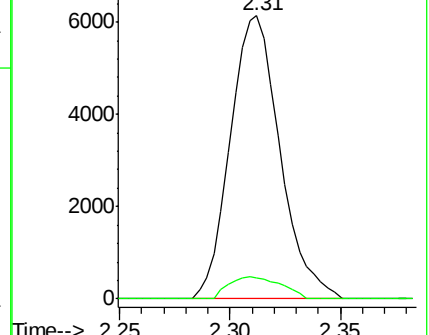
76 100

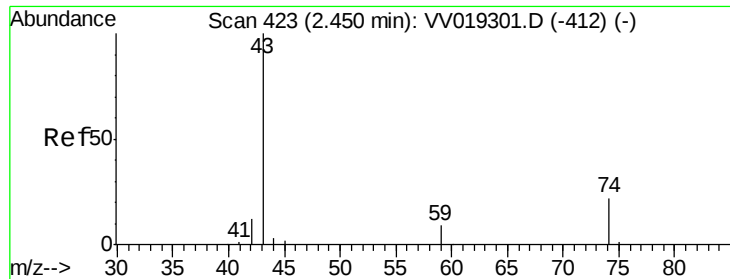
78 7.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019308.D (-286) (-)

Ion 78.00 (77.70 to 78.70): VV019308.D (-286) (-)





#15

Methvl Acetate

Concen: 2.725 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

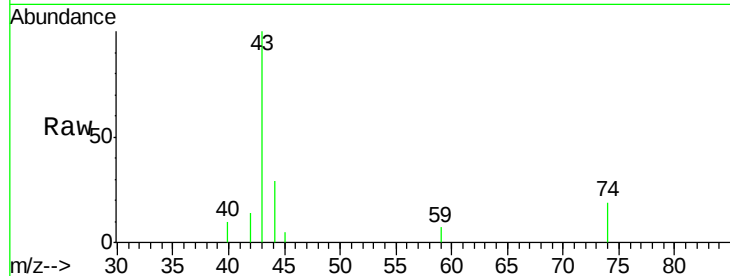
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 4433

Ion Ratio Lower Upper

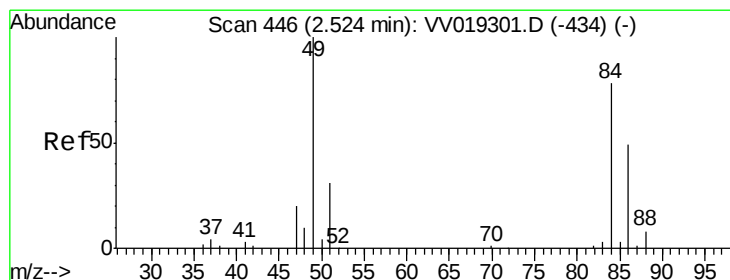
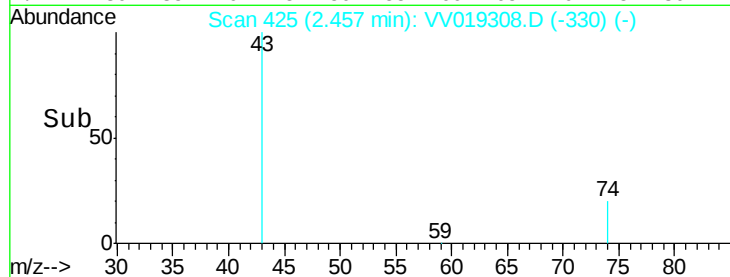
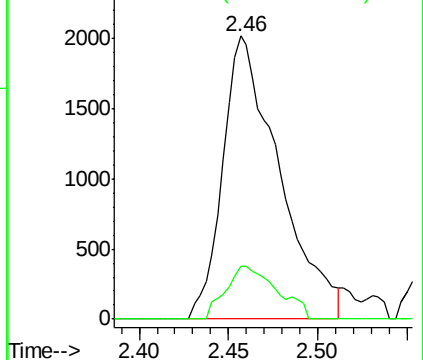
43 100

74 15.2 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 2.627 ug/L

RT: 2.52 min Scan# 446

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

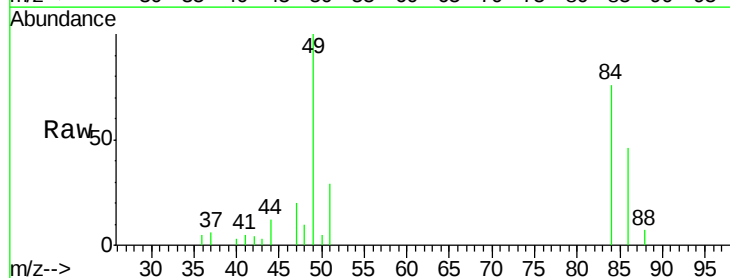
Tgt Ion: 84 Resp: 4375

Ion Ratio Lower Upper

84 100

86 60.4 45.6 84.8

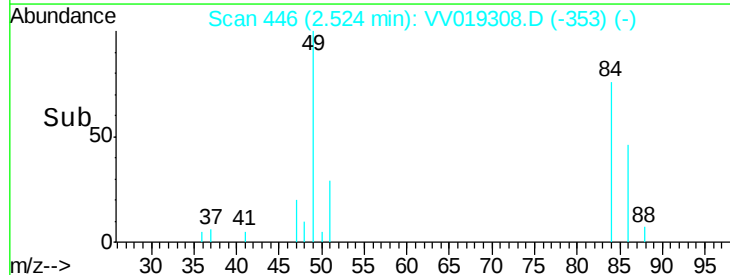
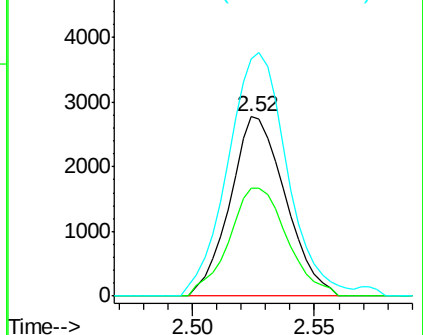
49 132.2 89.3 165.9

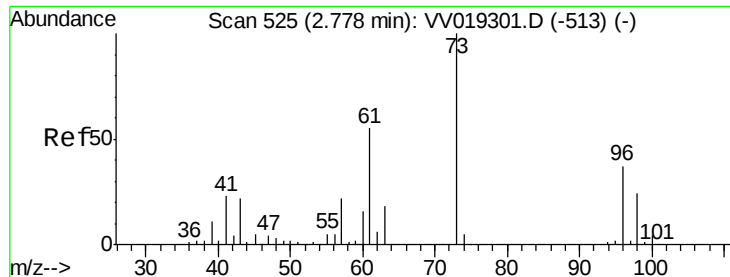


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

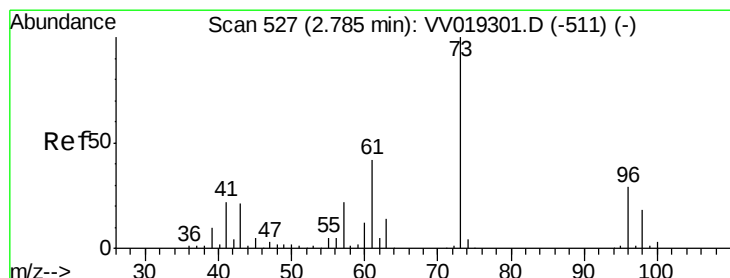
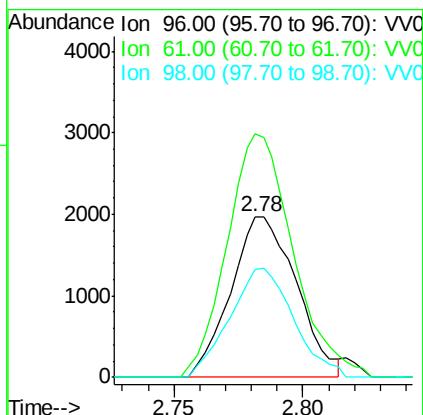
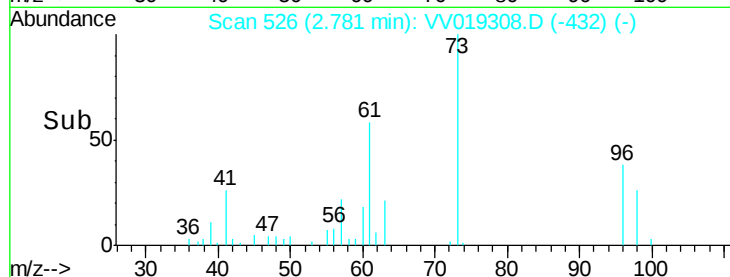
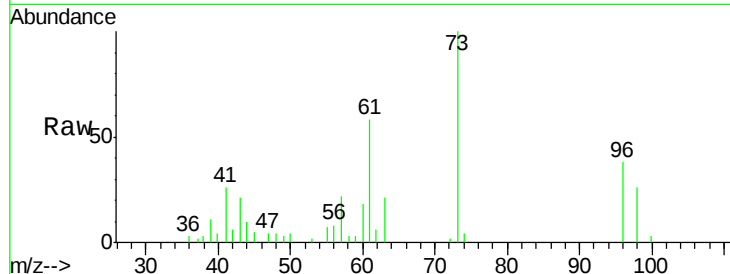




#17
trans-1,2-Dichloroethene
Concen: 2.304 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

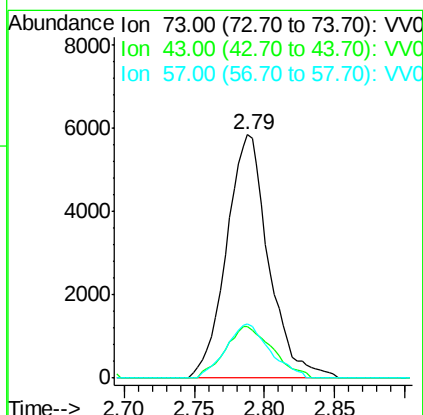
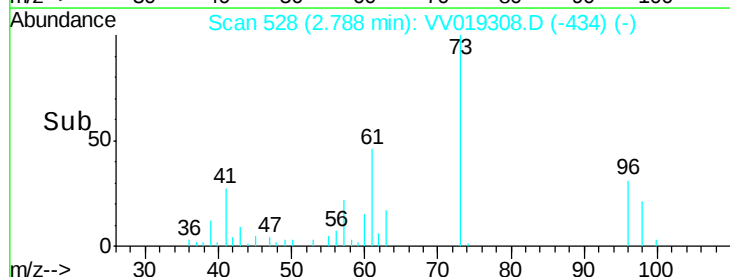
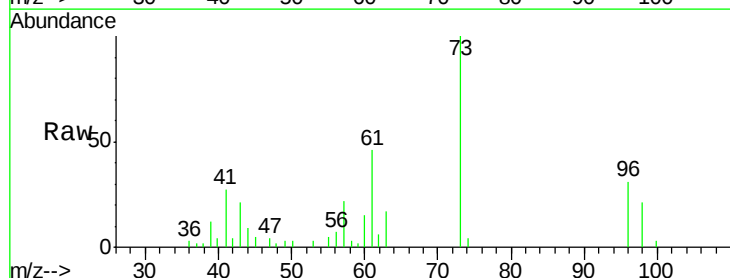
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

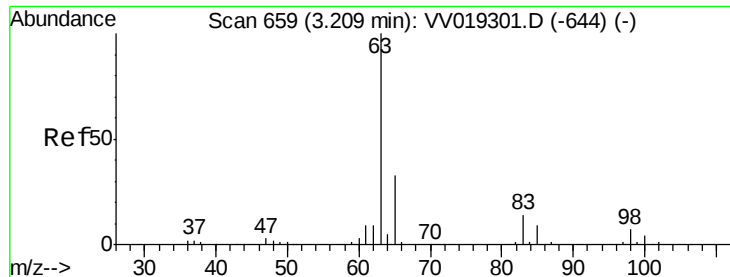
Tot Ion: 96 Resp: 3501
Ion Ratio Lower Upper
96 100
61 151.3 100.7 187.1
98 67.2 42.9 79.7



#18
Methyl tert-butyl Ether
Concen: 2.287 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

Tgt Ion: 73 Resp: 12218
Ion Ratio Lower Upper
73 100
43 23.7 17.9 26.9
57 23.1 17.1 25.7





#19

1,1-Dichloroethane

Concen: 2.544 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

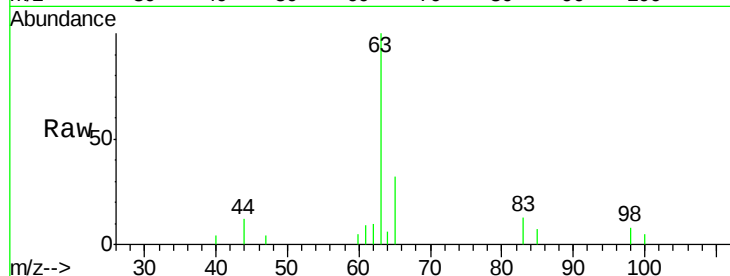
Tot Ion: 63 Resp: 7574

Ion Ratio Lower Upper

63 100

65 32.3 21.8 40.6

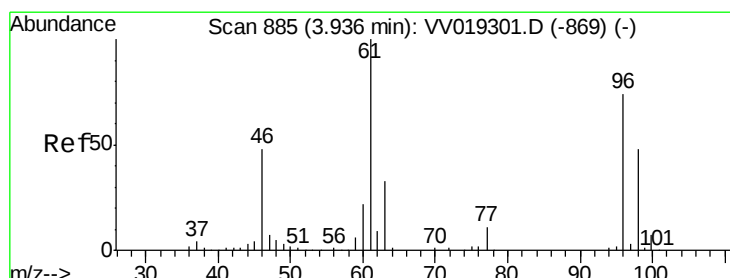
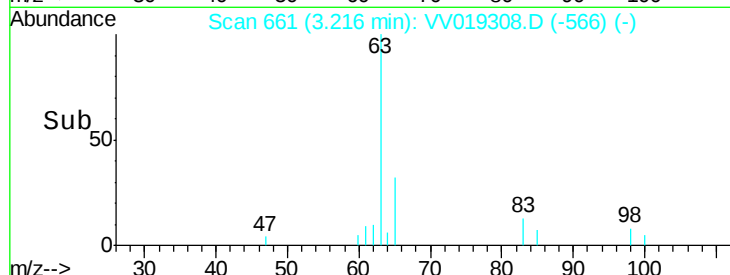
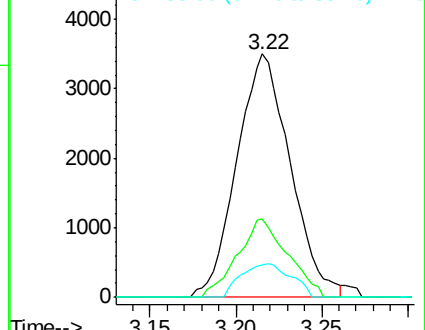
83 13.2 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.431 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

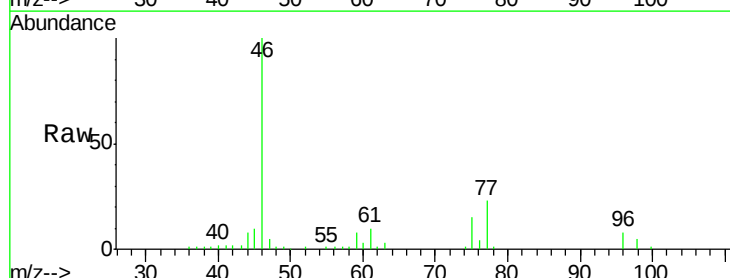
Tgt Ion: 96 Resp: 4083

Ion Ratio Lower Upper

96 100

61 127.5 95.6 177.6

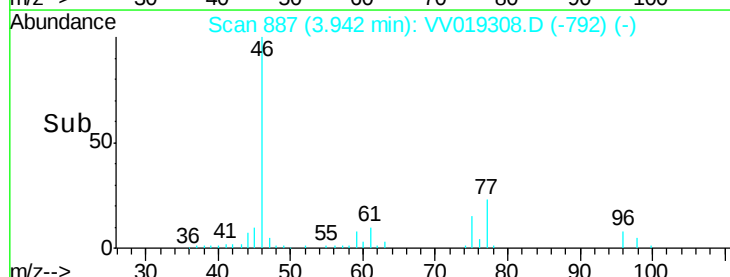
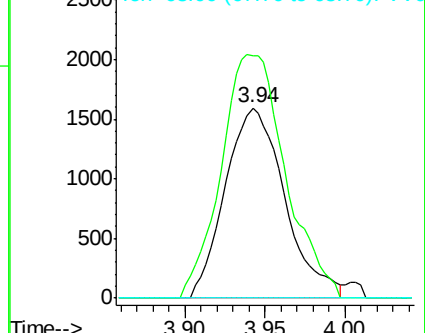
68 0.0 0.0 0.0

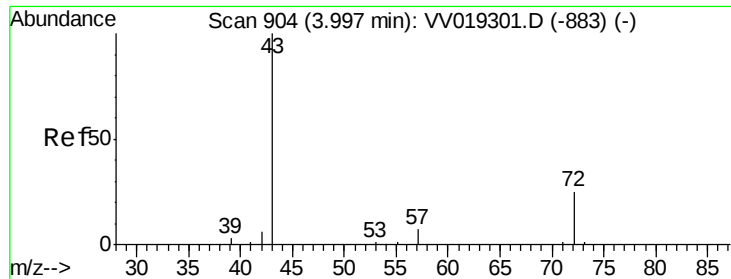


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 5.246 ug/L m

RT: 4.04 min Scan# 917

Delta R.T. 0.04 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

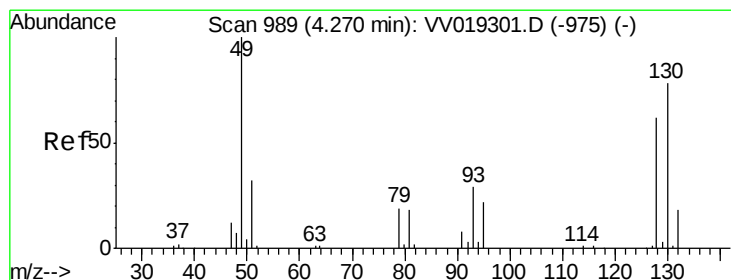
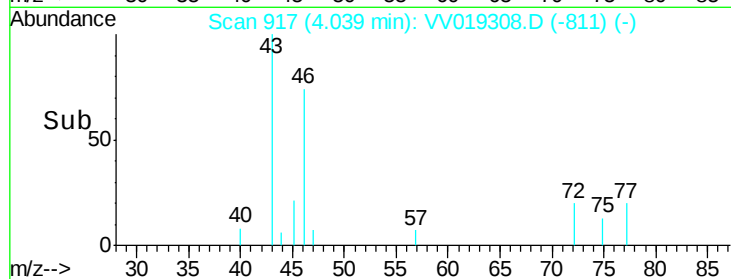
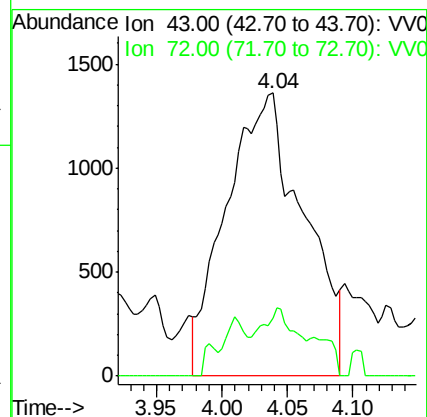
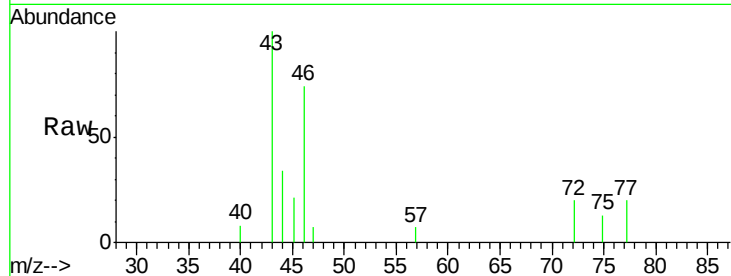
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 5592

Ion Ratio Lower Upper

43 100

72 3.9 12.7 38.0#



#23

Bromochloromethane

Concen: 2.267 ug/L

RT: 4.28 min Scan# 992

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Tgt Ion: 128 Resp: 2096

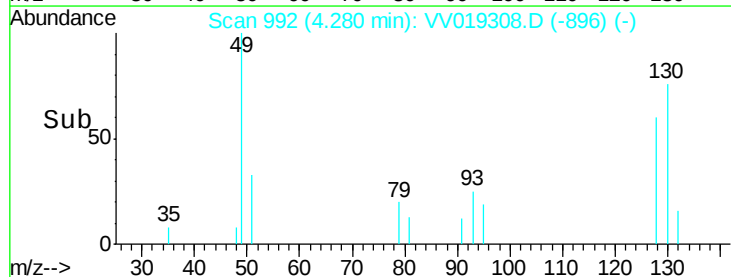
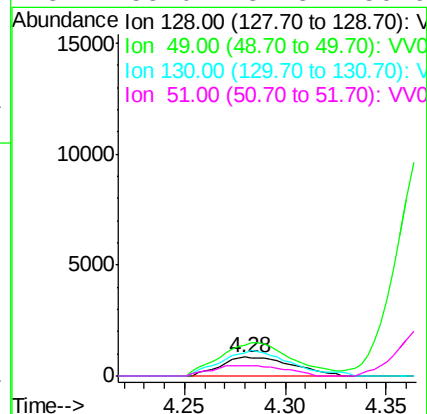
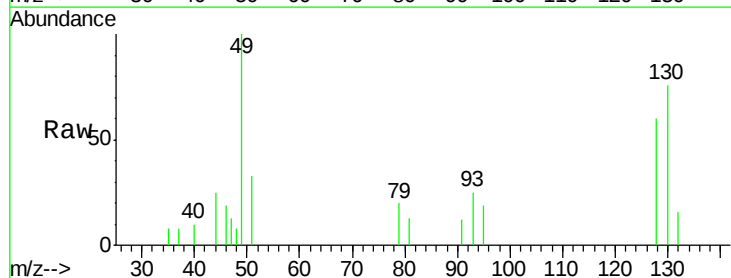
Ion Ratio Lower Upper

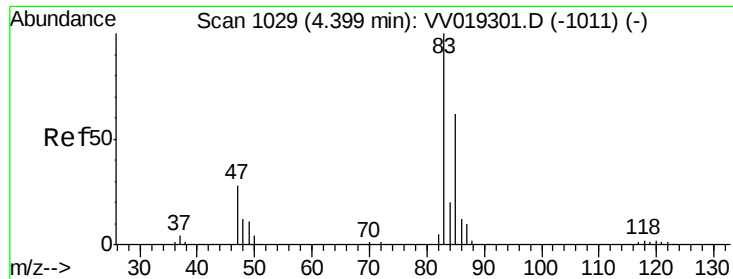
128 100

49 166.4 108.8 202.2

130 125.9 88.5 164.3

51 55.0 37.8 56.6

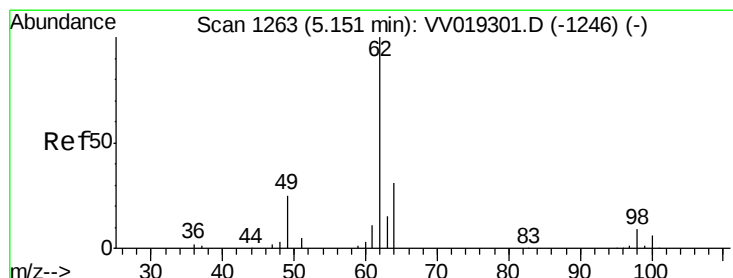
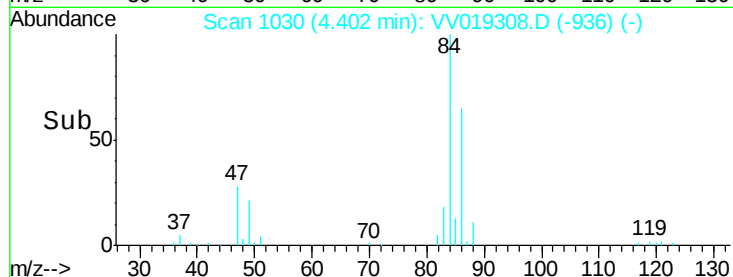
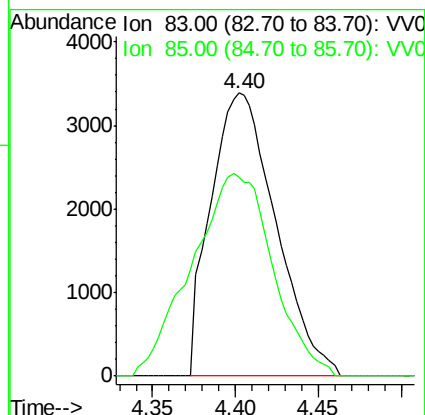
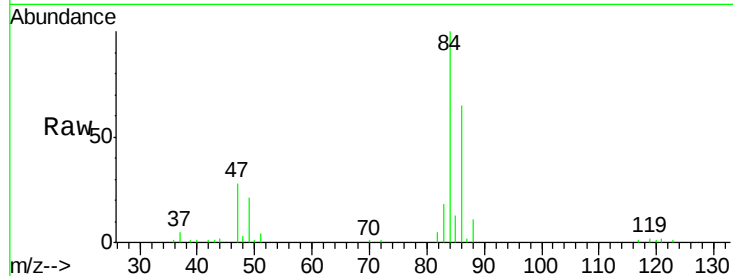




#25
Chloroform
Concen: 2.888 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

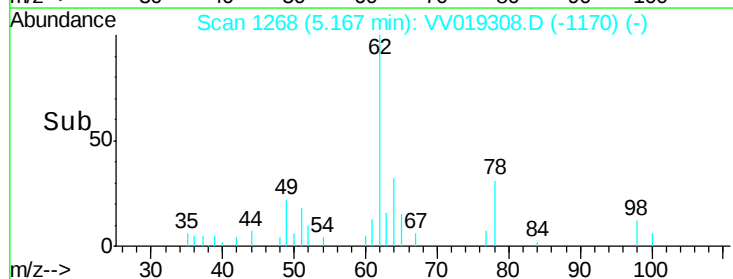
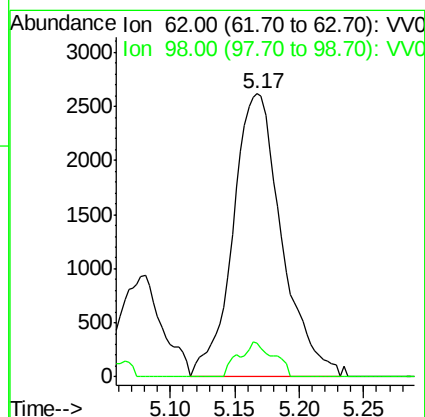
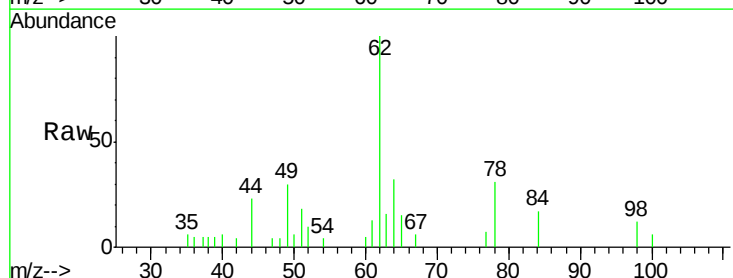
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

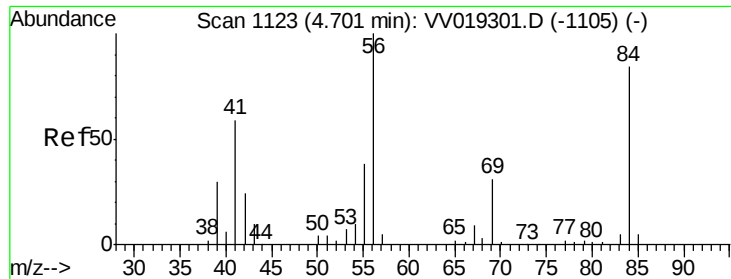
Tot Ion: 83 Resp: 9220
Ion Ratio Lower Upper
83 100
85 70.3 45.4 84.4



#27
1,2-Dichloroethane
Concen: 2.536 ug/L
RT: 5.17 min Scan# 1268
Delta R.T. 0.02 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

Tgt Ion: 62 Resp: 6882
Ion Ratio Lower Upper
62 100
98 12.0 6.8 10.2#

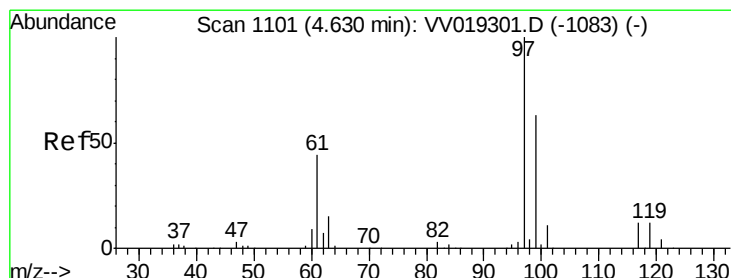
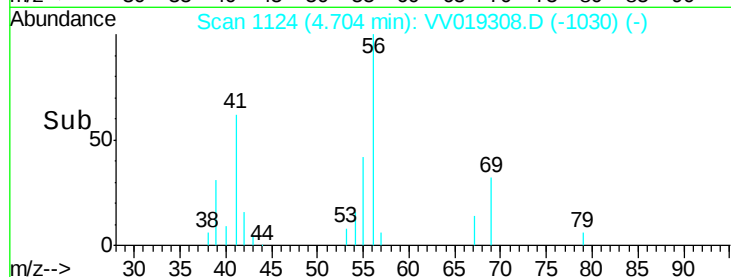
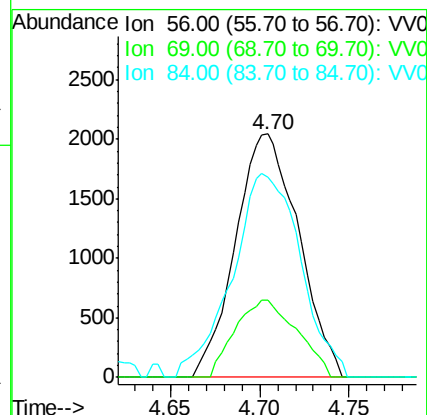
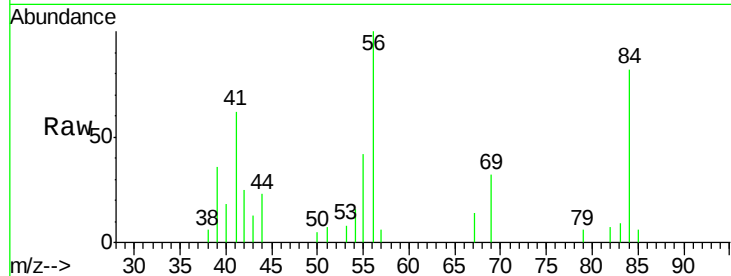




#29
Cyclohexane
Concen: 2.356 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. 0.00 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

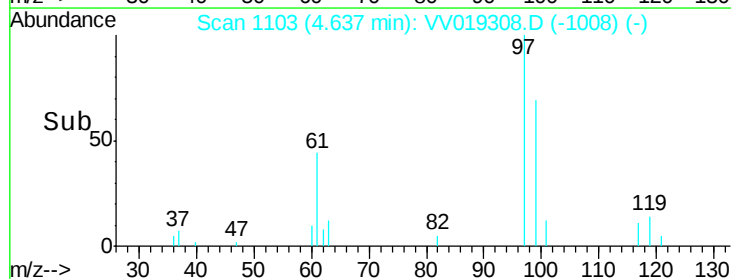
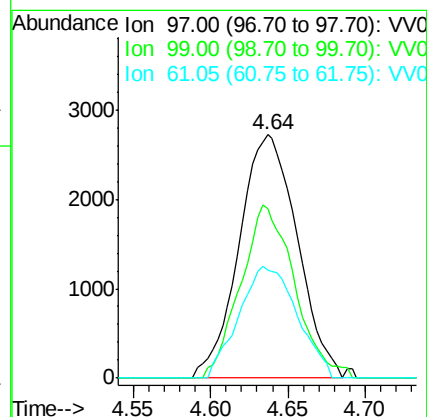
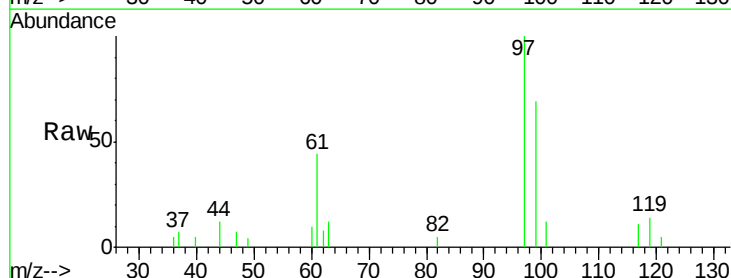
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

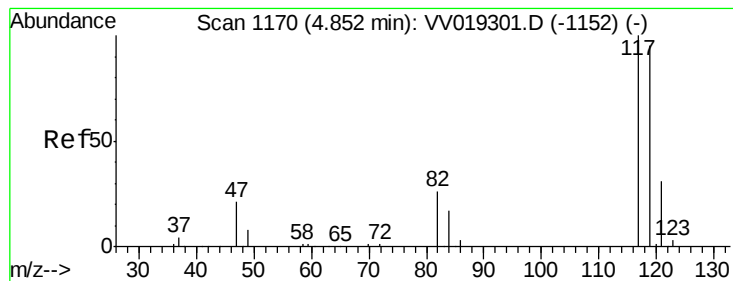
Tot Ion: 56 Resp: 5036
Ion Ratio Lower Upper
56 100
69 31.1 24.6 36.8
84 90.9 70.5 105.7



#30
1,1,1-Trichloroethane
Concen: 2.457 ug/L
RT: 4.64 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

Tgt Ion: 97 Resp: 7118
Ion Ratio Lower Upper
97 100
99 65.3 52.0 78.0
61 45.9 35.3 52.9





#31

Carbon tetrachloride

Concen: 2.528 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

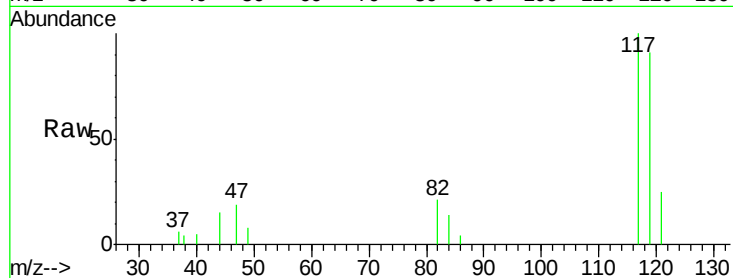
MDL-ME-SOIL-04

Tot Ion:117 Resp: 6325

Ion Ratio Lower Upper

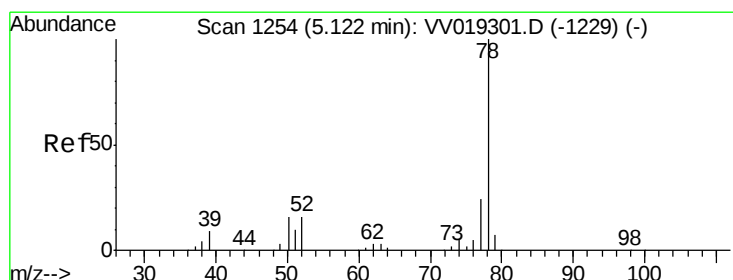
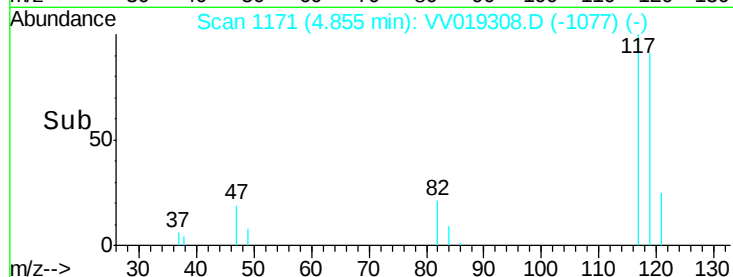
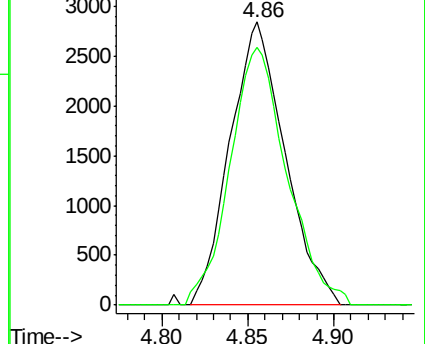
117 100

119 93.9 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.595 ug/L

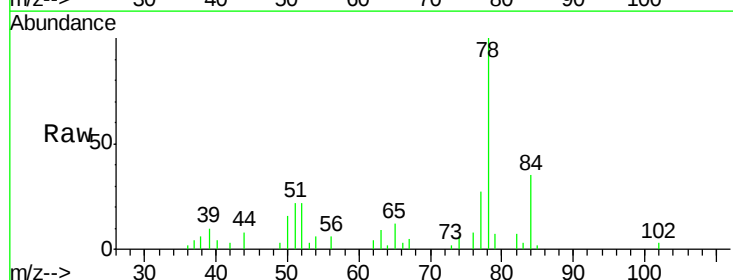
RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

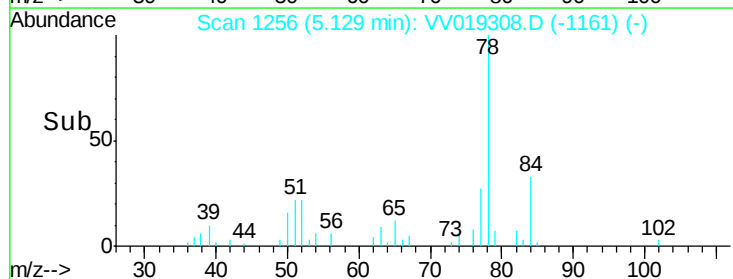
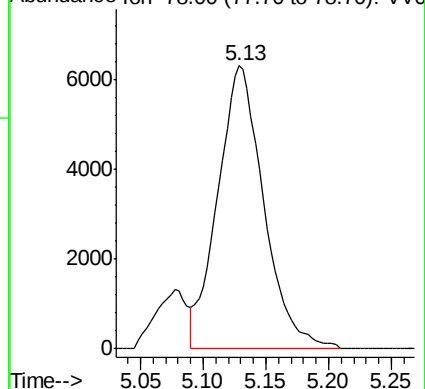
Lab File: VV019308.D

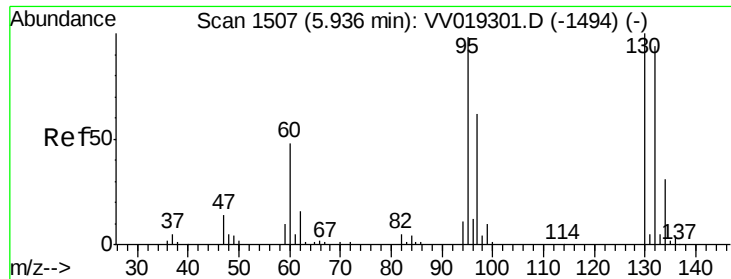
Acq: 09 Nov 2020 17:35

Tgt Ion: 78 Resp: 16114



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.749 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 95 Resp: 4639

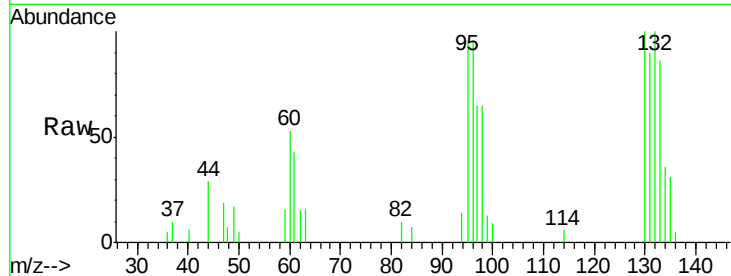
Ion Ratio Lower Upper

95 100

97 68.4 45.4 84.4

132 104.5 68.5 127.3

130 104.4 72.0 133.6

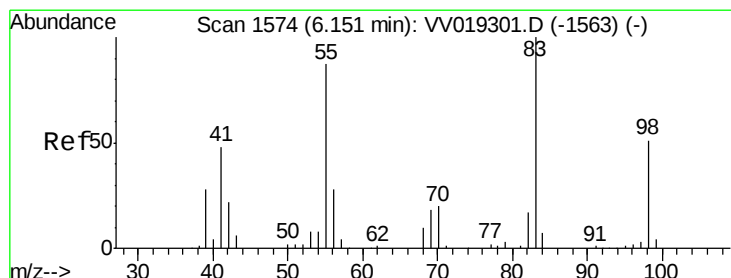
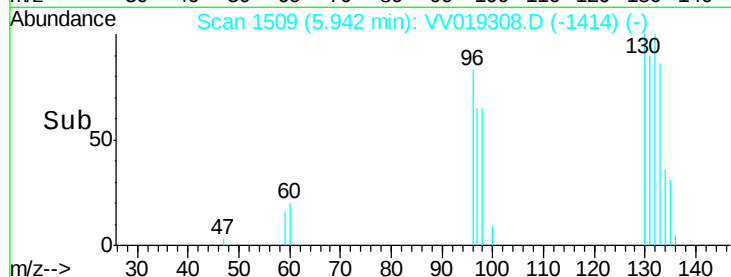
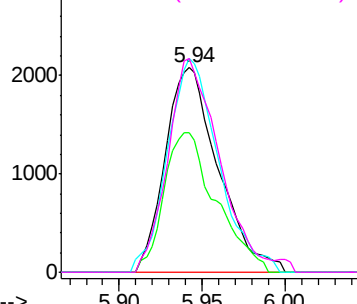


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 2.574 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

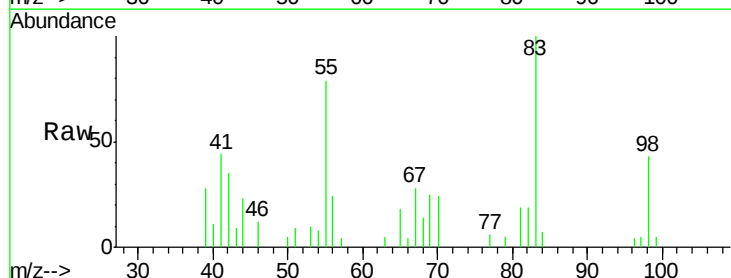
Tgt Ion: 83 Resp: 5257

Ion Ratio Lower Upper

83 100

55 81.6 62.8 94.2

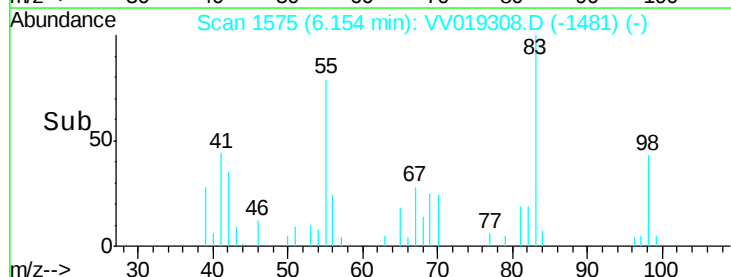
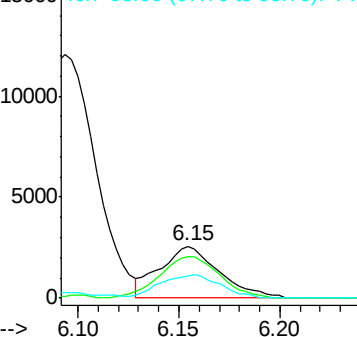
98 45.5 38.6 58.0

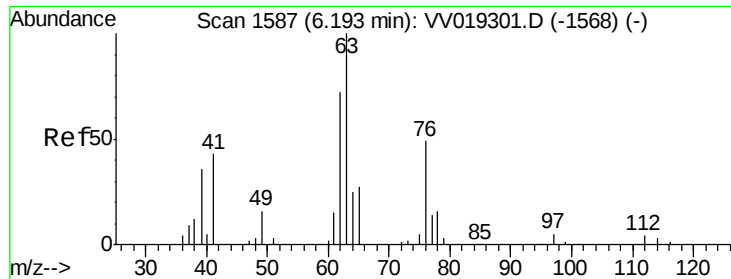


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 2.386 ug/L

RT: 6.20 min Scan# 1590

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

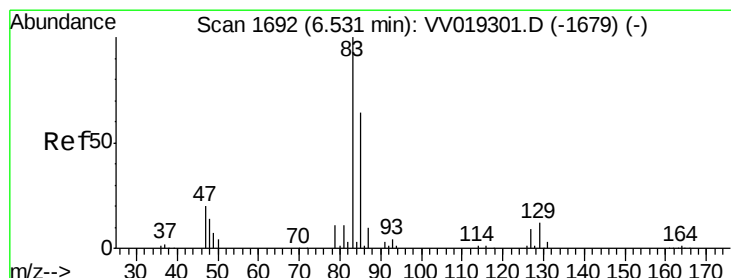
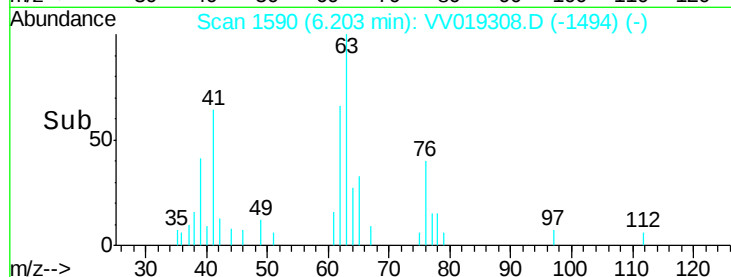
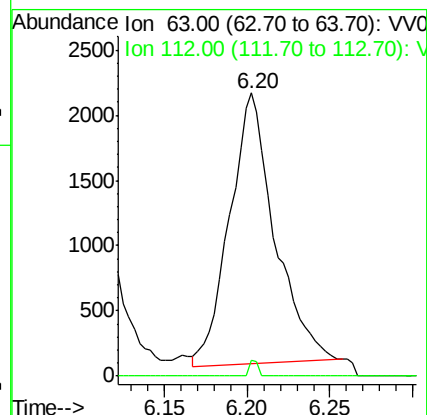
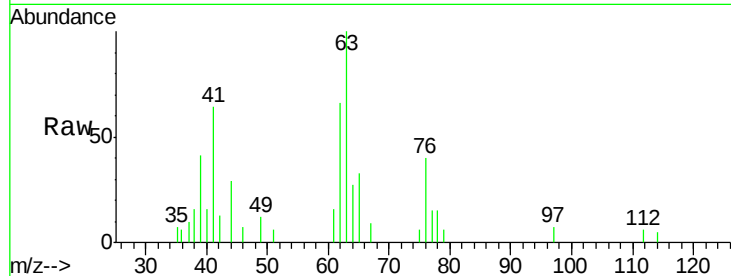
MDL-ME-SOIL-04

Tot Ion: 63 Resp: 3953

Ion Ratio Lower Upper

63 100

112 1.1 4.2 6.2#



#38

Bromodichloromethane

Concen: 2.287 ug/L

RT: 6.54 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

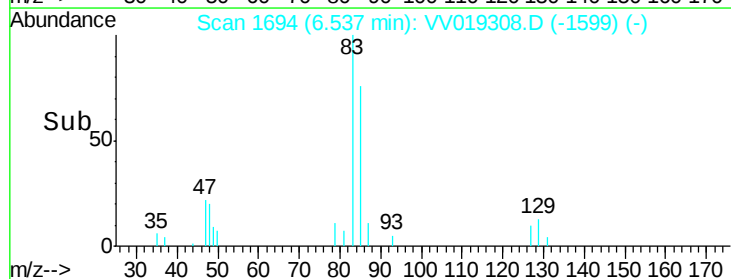
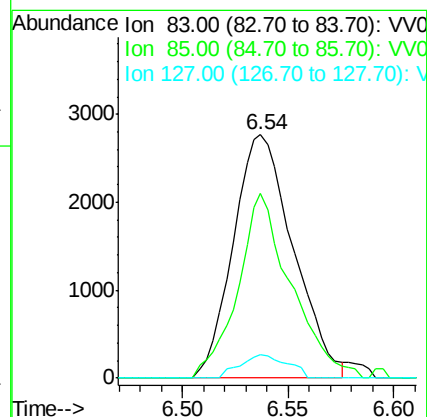
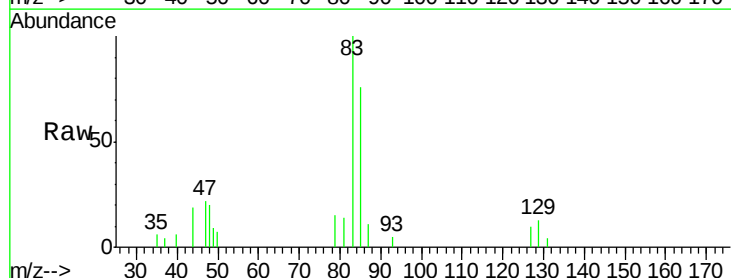
Tgt Ion: 83 Resp: 5454

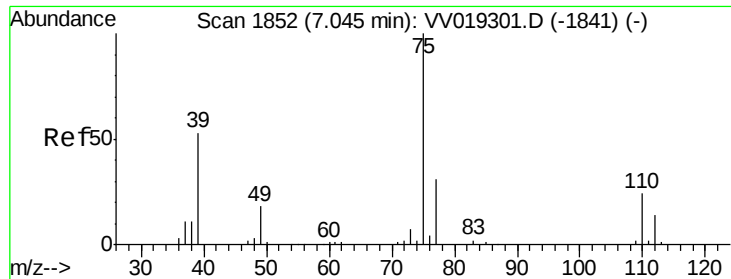
Ion Ratio Lower Upper

83 100

85 76.0 44.0 81.8

127 9.6 7.3 10.9

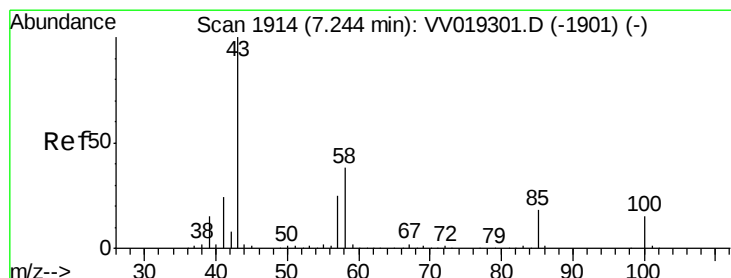
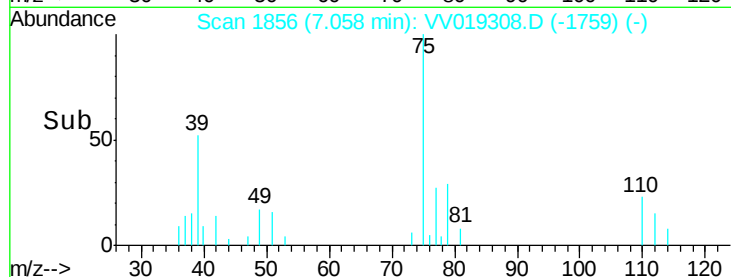
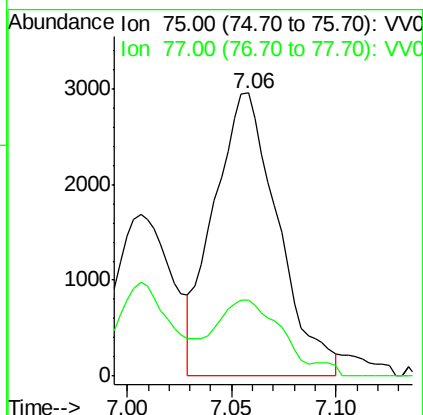
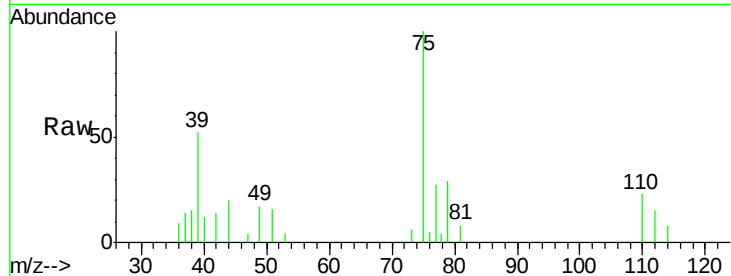




#39
 cis-1,3-Dichloropropene
 Concen: 2.389 ug/L m
 RT: 7.06 min Scan# 1856
 Delta R.T. 0.01 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

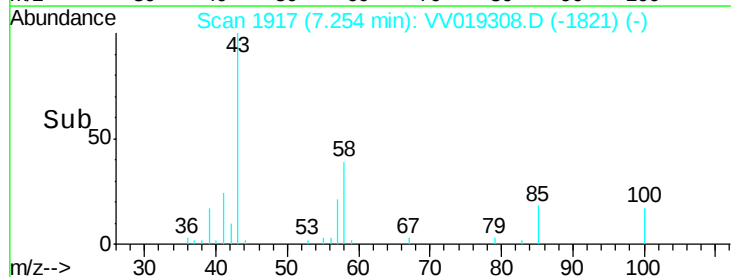
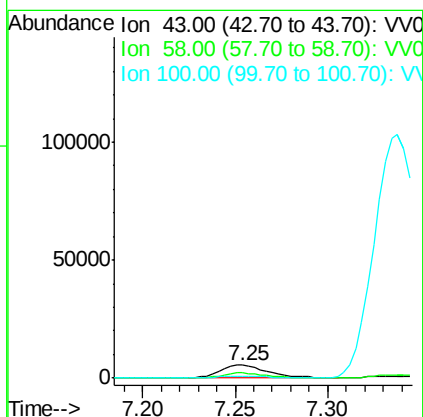
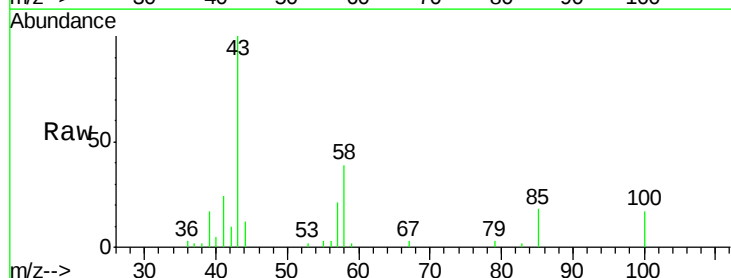
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

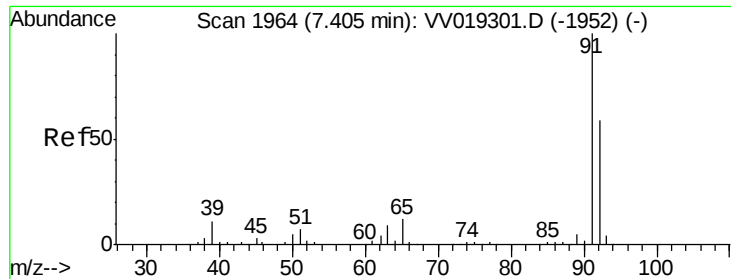
Tot Ion: 75 Resp: 6333
 Ion Ratio Lower Upper
 75 100
 77 26.8 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 4.475 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.01 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

Tgt Ion: 43 Resp: 9962
 Ion Ratio Lower Upper
 43 100
 58 36.6 30.5 45.7
 100 15.4 12.7 19.1





#42

Toluene

Concen: 2.659 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

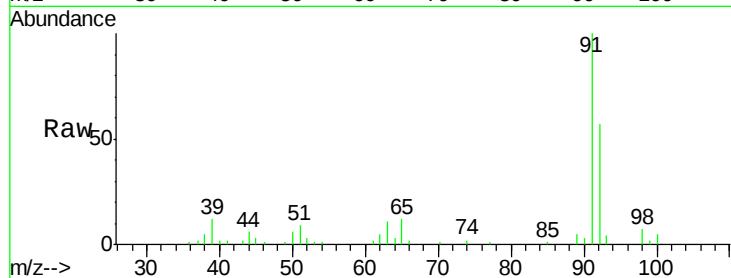
MDL-ME-SOIL-04

Tot Ion: 91 Resp: 17846

Ion Ratio Lower Upper

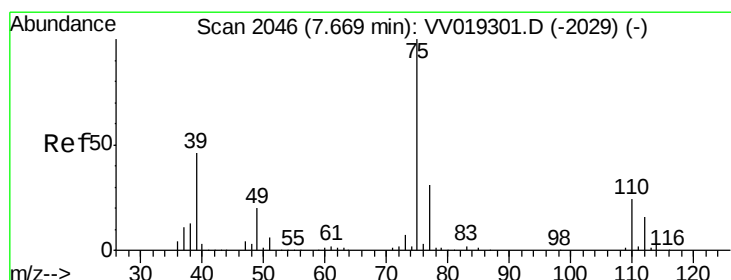
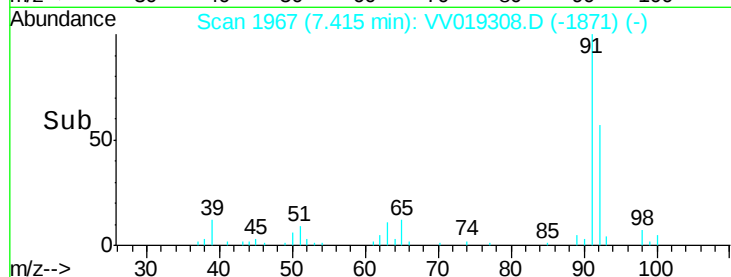
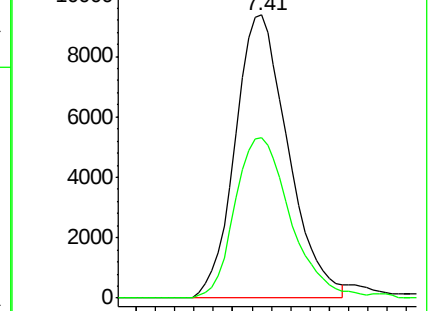
91 100

92 56.7 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VV019308.D (-1953) (-)

Ion 92.00 (91.70 to 92.70): VV019308.D (-1953) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.434 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019308.D

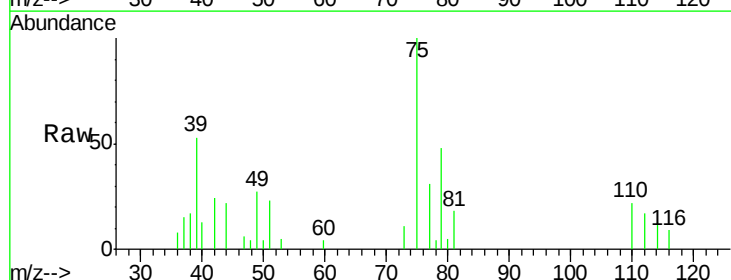
Acq: 09 Nov 2020 17:35

Tgt Ion: 75 Resp: 6613

Ion Ratio Lower Upper

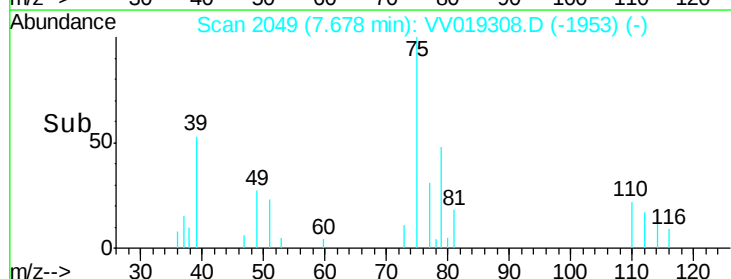
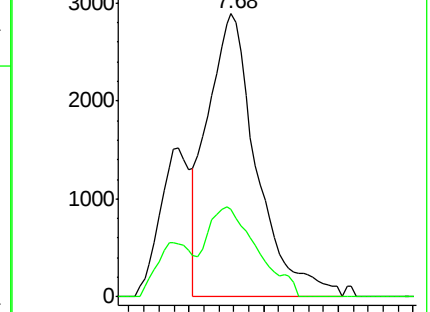
75 100

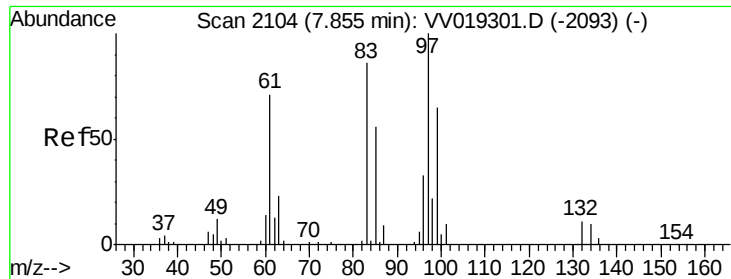
77 30.8 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV019308.D (-1953) (-)

Ion 77.00 (76.70 to 77.70): VV019308.D (-1953) (-)





#45

1,1,2-Trichloroethane

Concen: 2.361 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 97 Resp: 3866

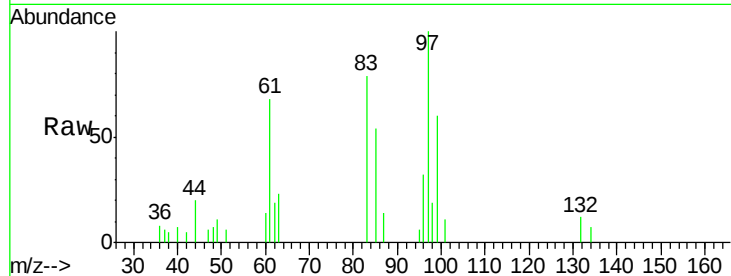
Ion Ratio Lower Upper

97 100

99 59.9 45.1 83.9

83 78.8 57.6 107.0

85 54.4 37.8 70.2

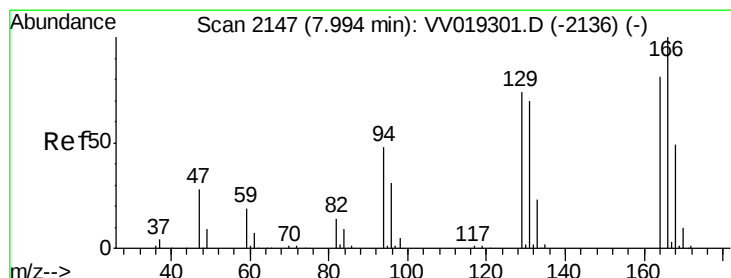
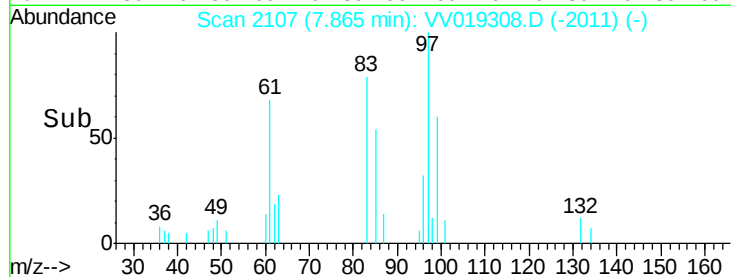
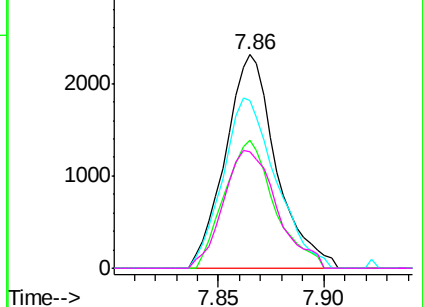


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 2.567 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Tgt Ion: 164 Resp: 3534

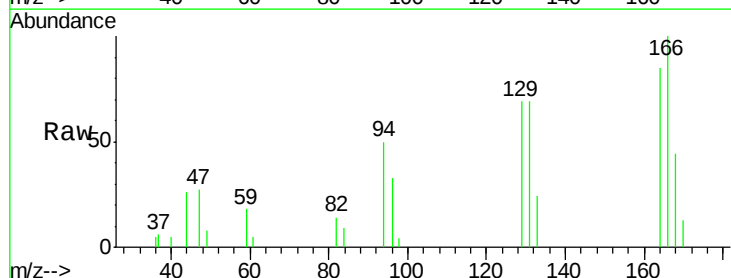
Ion Ratio Lower Upper

164 100

129 81.2 62.6 116.3

131 81.2 59.0 109.6

166 117.3 88.0 163.4

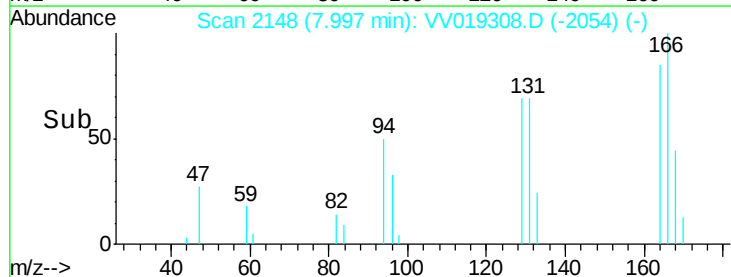
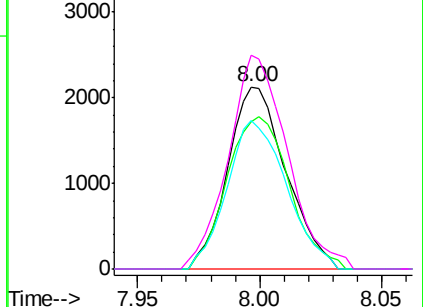


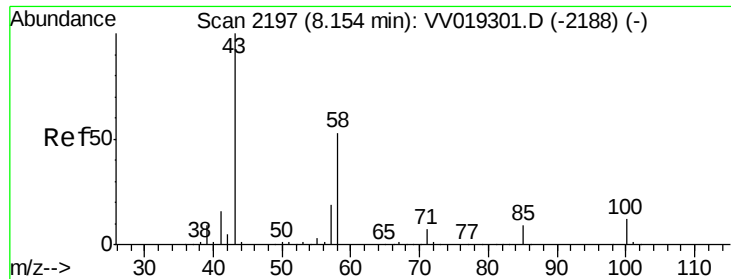
Abundance Ion 164.00 (163.70 to 164.70): V

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

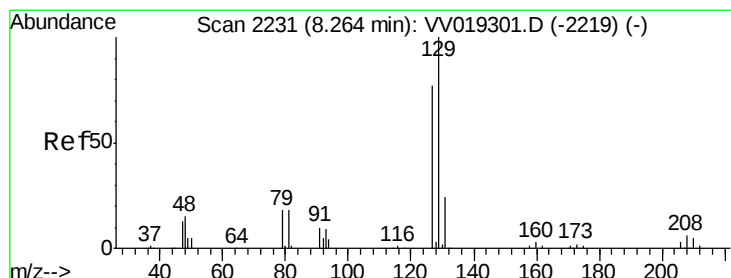
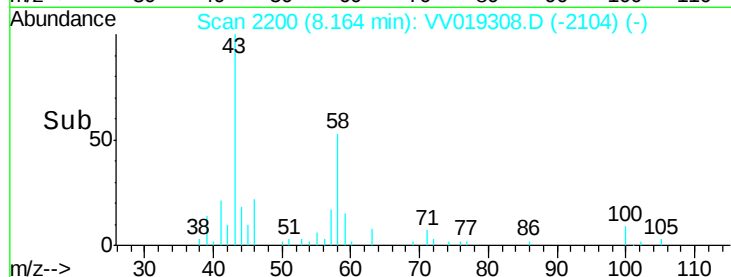
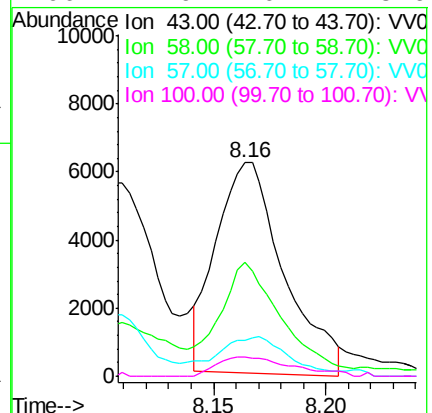
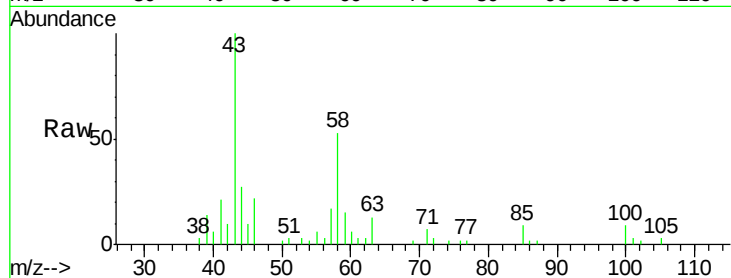




#48
2-Hexanone
Concen: 7.748 ug/L m
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

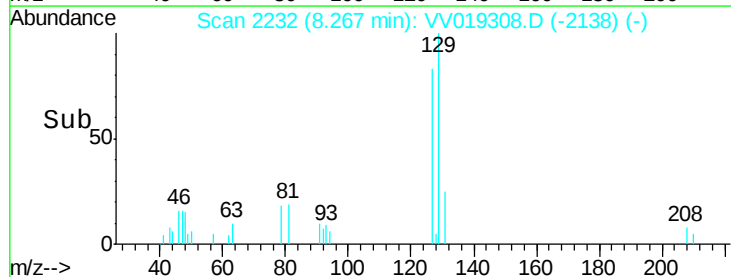
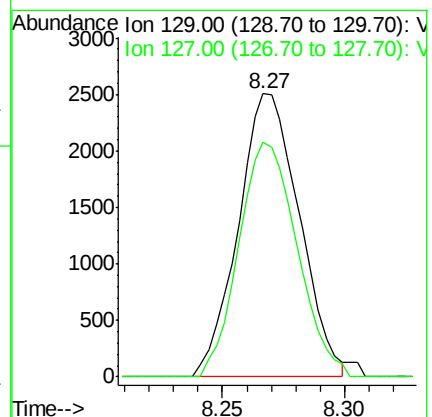
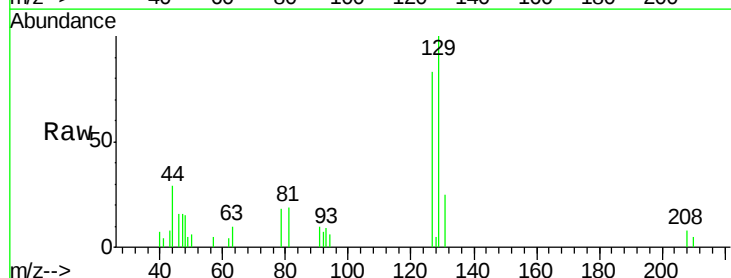
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

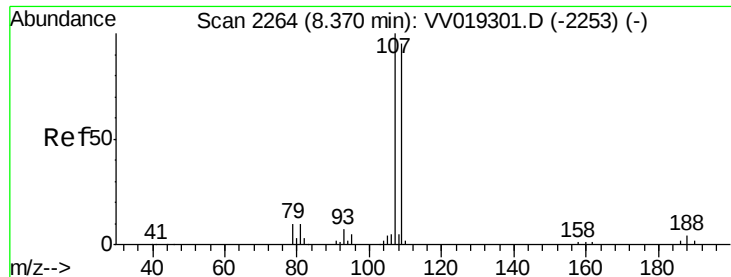
Tot Ion: 43 Resp: 13039
Ion Ratio Lower Upper
43 100
58 45.1 42.6 63.8
57 18.3 15.8 23.8
100 4.9 10.4 15.6#



#49
Dibromochloromethane
Concen: 2.222 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

Tgt Ion: 129 Resp: 4340
Ion Ratio Lower Upper
129 100
127 82.7 54.4 101.0

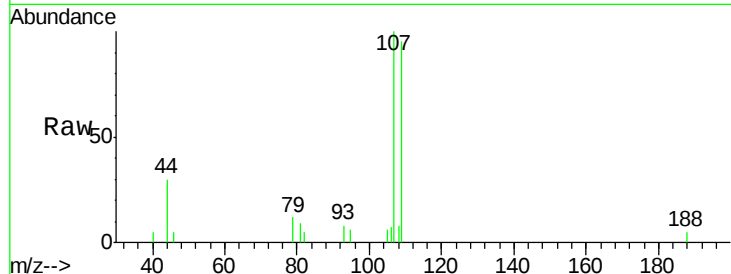




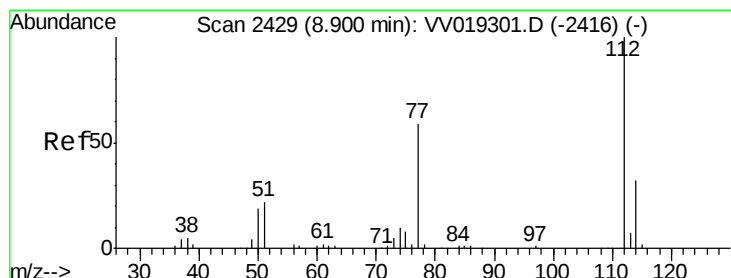
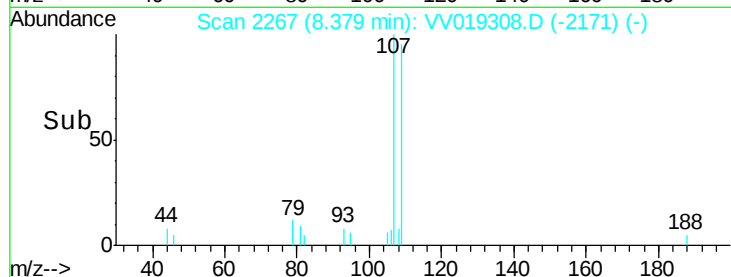
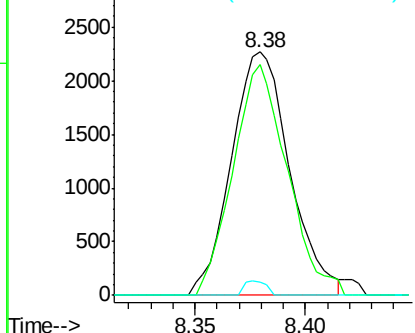
#50
 1,2-Dibromoethane
 Concen: 2.448 ug/L
 RT: 8.38 min Scan# 2267
 Delta R.T. 0.01 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion:107 Resp: 4155
 Ion Ratio Lower Upper
 107 100
 109 94.6 64.8 120.4
 188 5.4 3.8 5.8

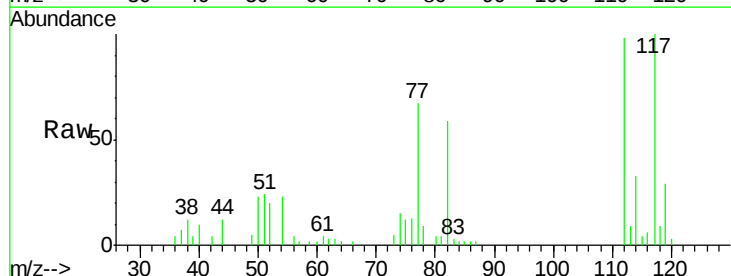


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

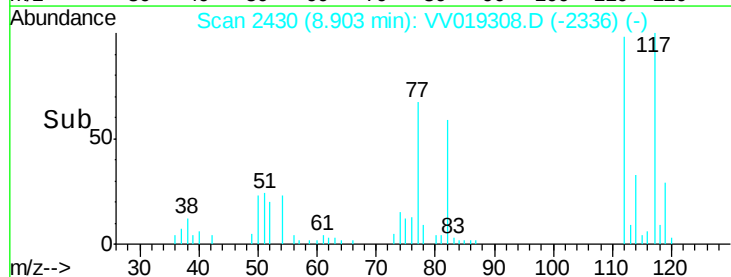
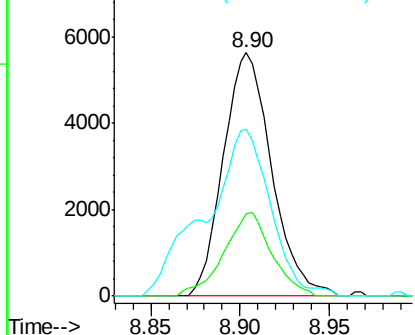


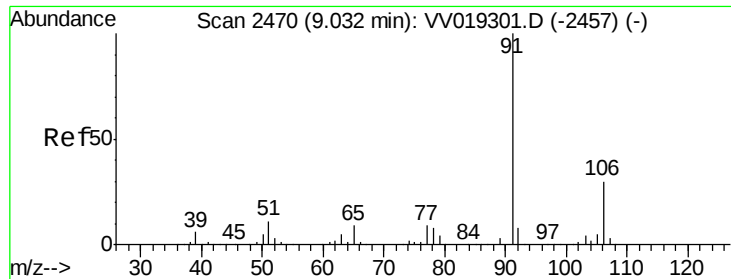
#51
 Chlorobenzene
 Concen: 2.370 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

Tgt Ion:112 Resp: 10637
 Ion Ratio Lower Upper
 112 100
 114 33.8 22.7 42.1
 77 68.7 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: 2.224 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

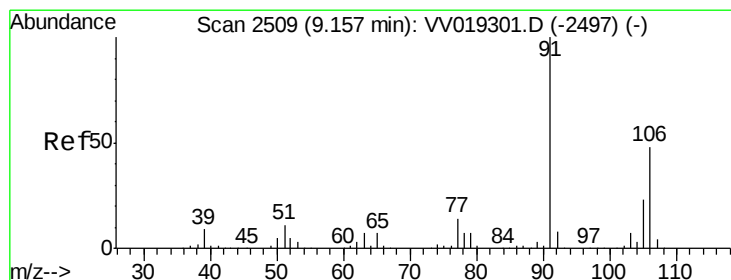
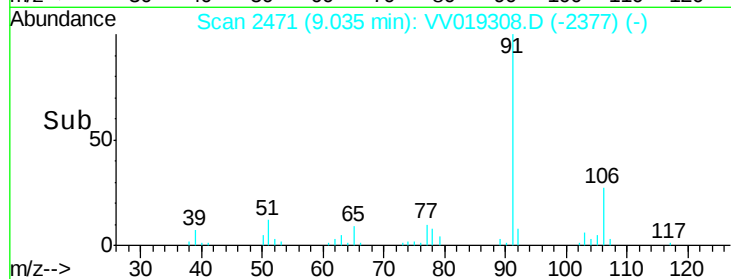
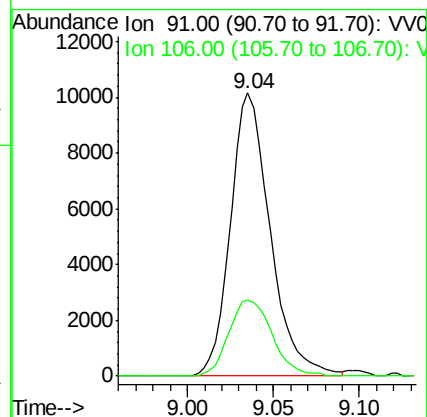
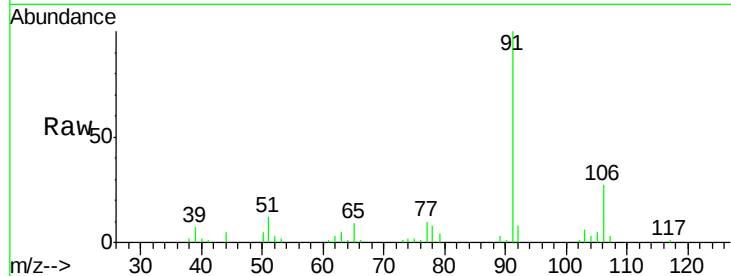
MDL-ME-SOIL-04

Tot Ion: 91 Resp: 16464

Ion Ratio Lower Upper

91 100

106 27.1 21.6 40.0



#53

m,p-Xylene

Concen: 2.261 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019308.D

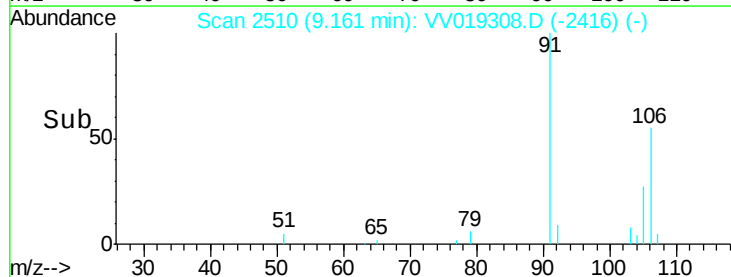
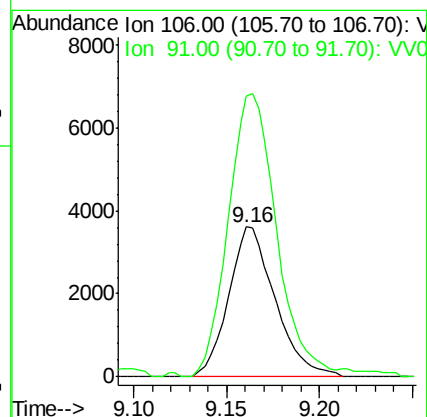
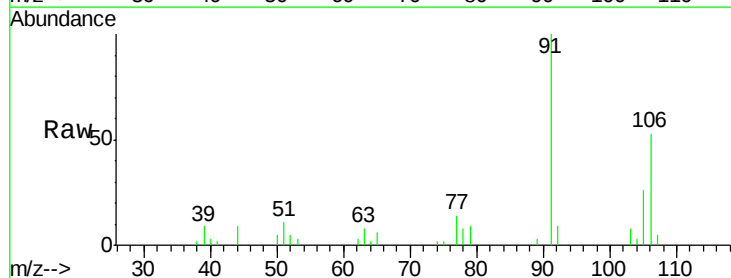
Acq: 09 Nov 2020 17:35

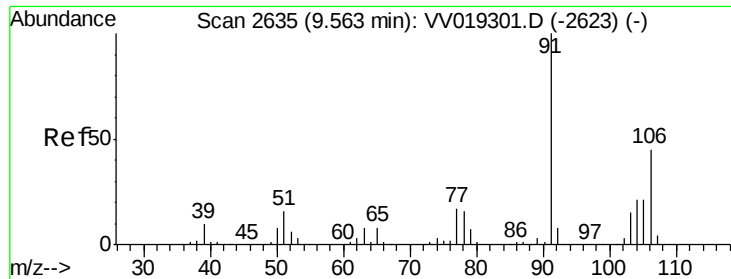
Tgt Ion: 106 Resp: 6266

Ion Ratio Lower Upper

106 100

91 187.0 147.2 273.4





#54

o-Xylene

Concen: 2.124 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

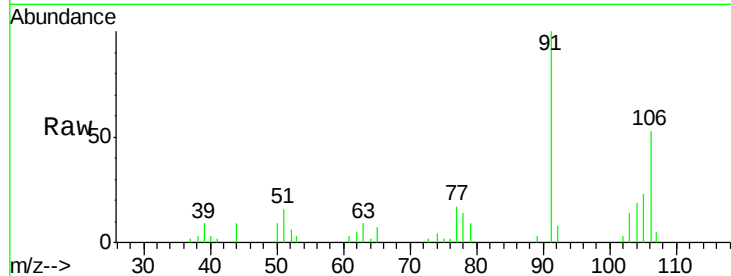
MDL-ME-SOIL-04

Tot Ion:106 Resp: 5803

Ion Ratio Lower Upper

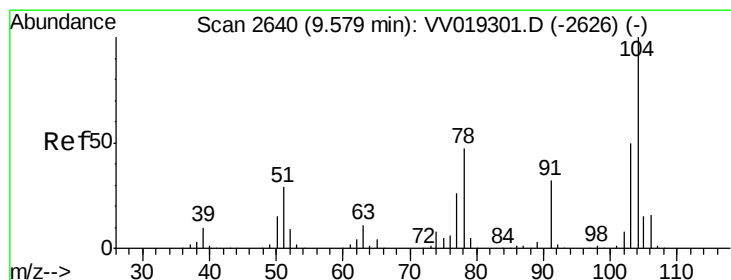
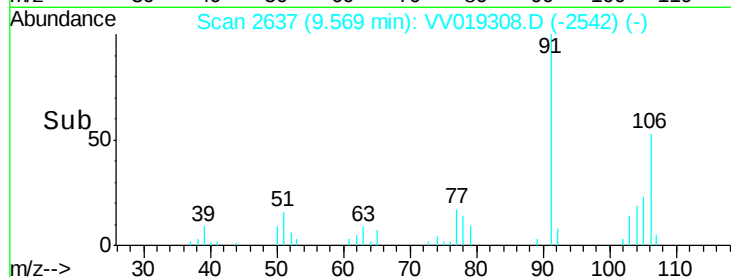
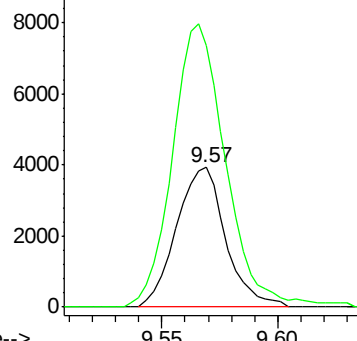
106 100

91 187.7 151.6 281.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.908 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VV019308.D

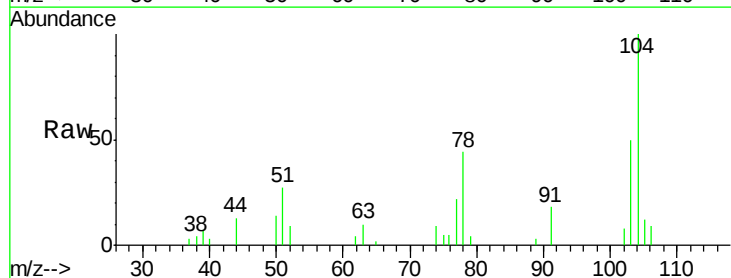
Acq: 09 Nov 2020 17:35

Tgt Ion:104 Resp: 9278

Ion Ratio Lower Upper

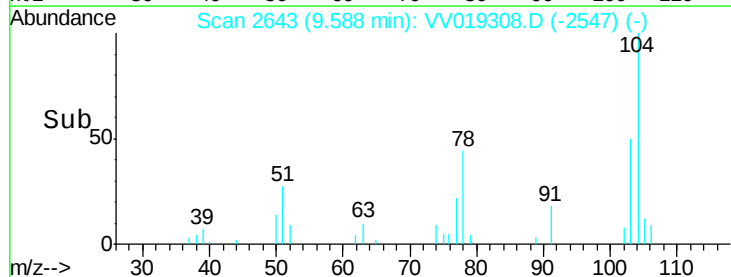
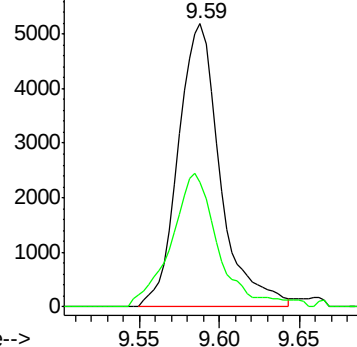
104 100

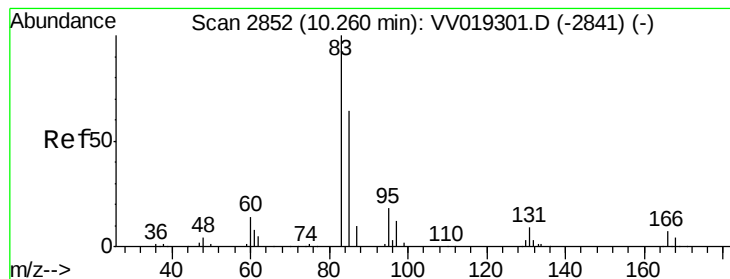
78 44.3 32.6 60.5



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: 2.427 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

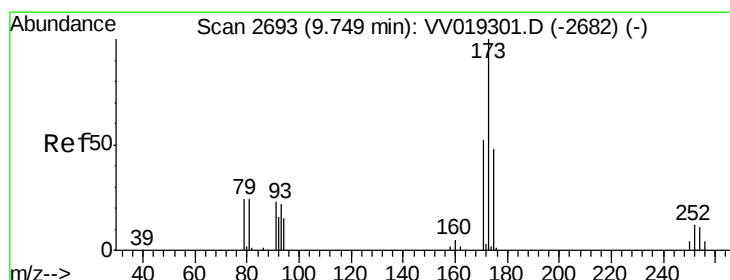
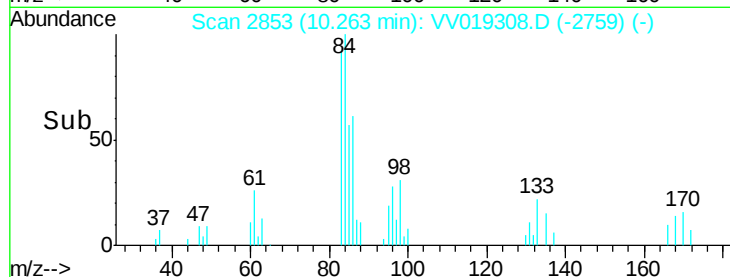
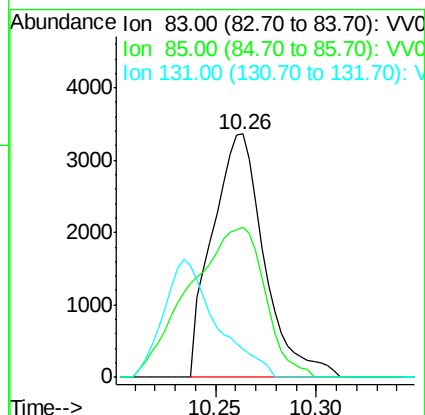
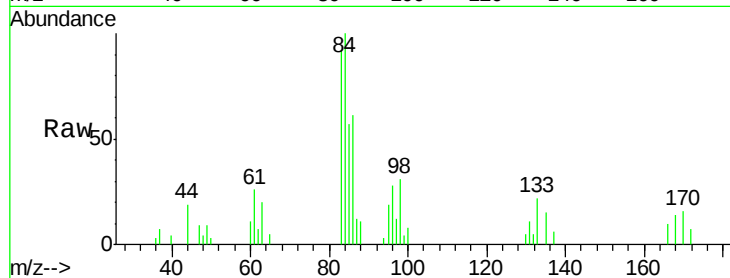
Tot Ion: 83 Resp: 6013

Ion Ratio Lower Upper

83 100

85 61.8 45.0 83.6

131 11.5 8.9 13.3



#59

Bromoform

Concen: 2.300 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

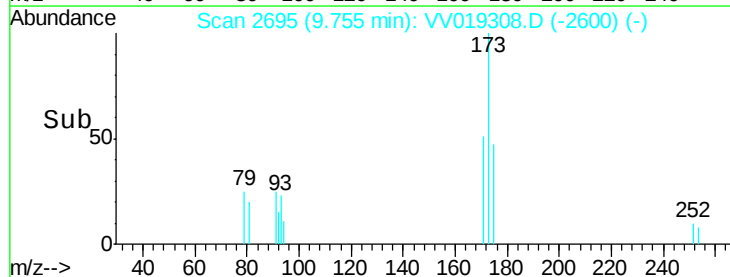
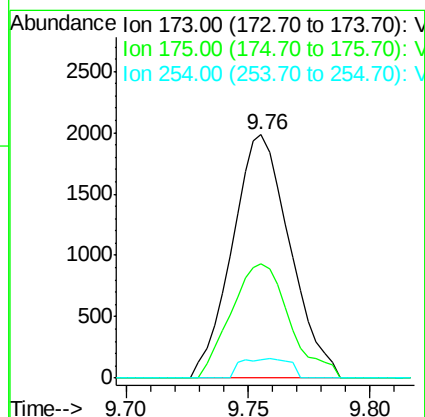
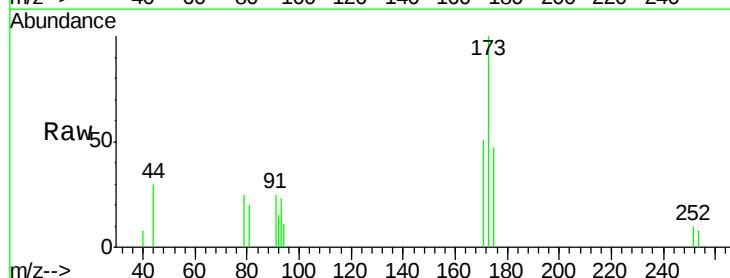
Tgt Ion: 173 Resp: 3254

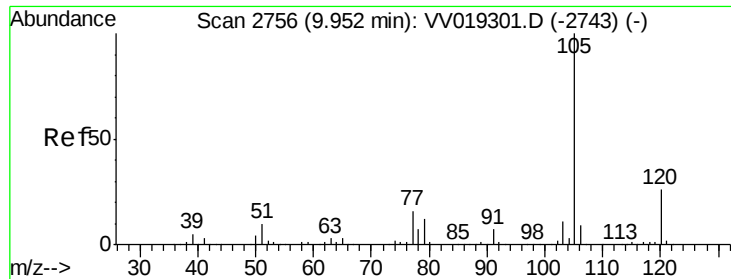
Ion Ratio Lower Upper

173 100

175 47.6 38.4 57.6

254 2.5 9.0 13.6#





#60

Isopropylbenzene

Concen: 2.250 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

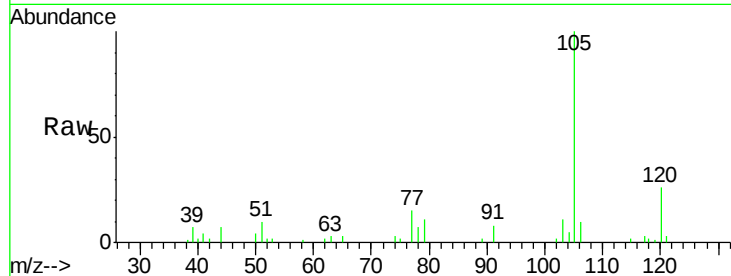
Tot Ion:105 Resp: 15031

Ion Ratio Lower Upper

105 100

120 24.7 21.0 31.4

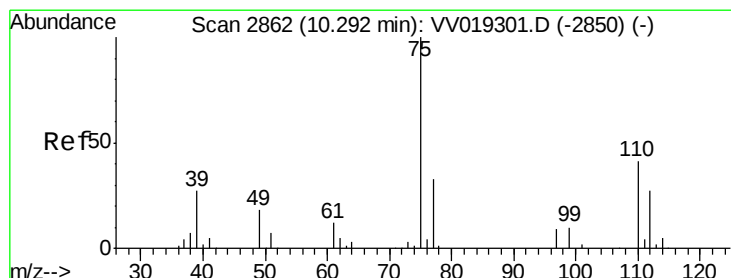
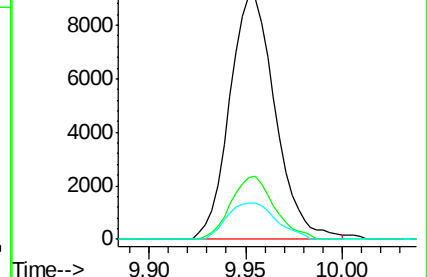
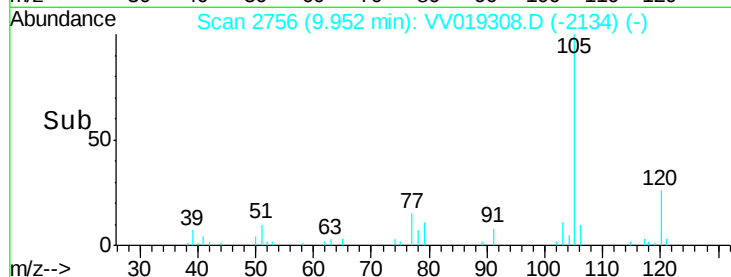
77 16.2 13.0 19.6



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: 2.655 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

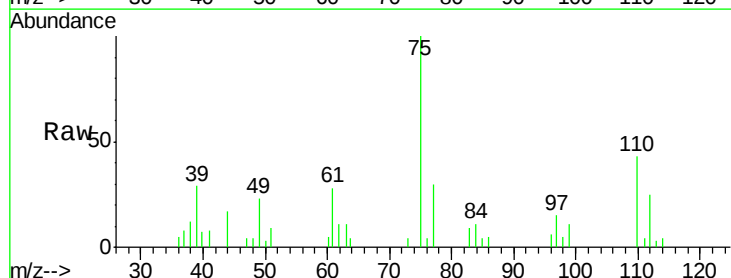
Tgt Ion: 75 Resp: 5257

Ion Ratio Lower Upper

75 100

77 29.5 24.8 37.2

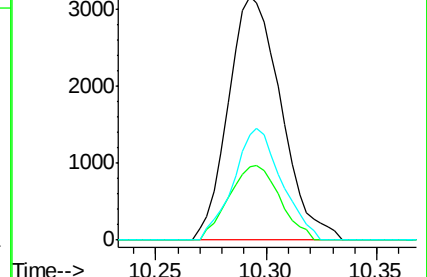
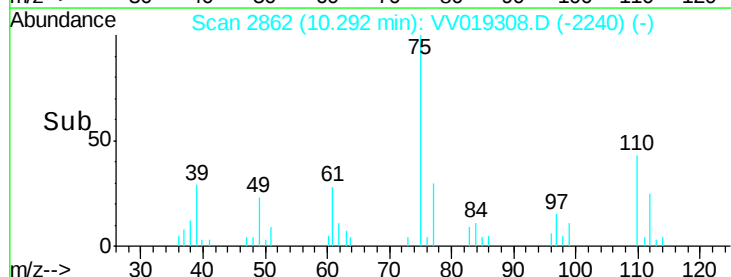
110 41.7 33.4 50.2

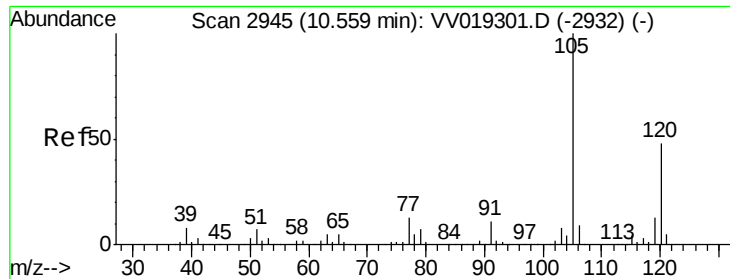


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

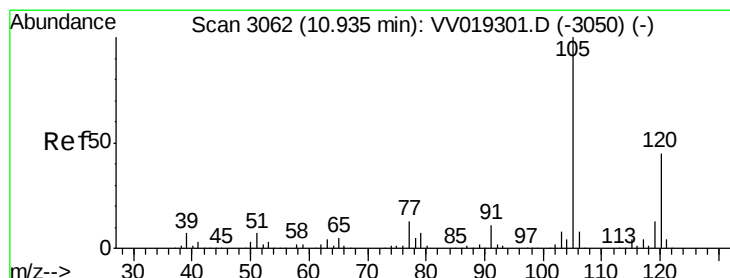
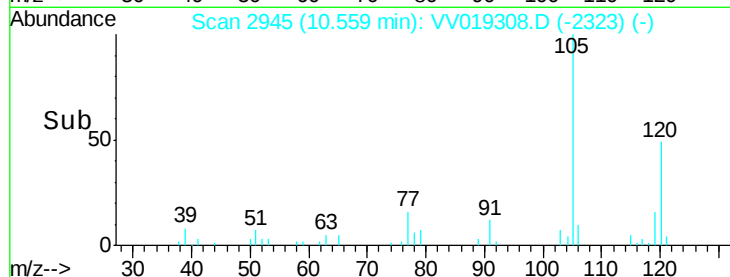
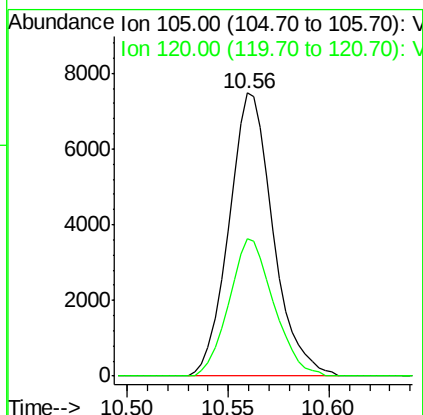
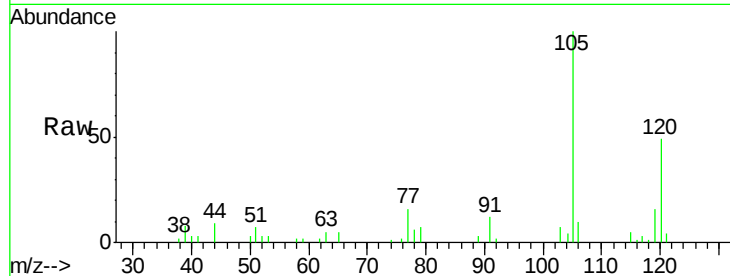




#62
 1,3,5-Trimethylbenzene
 Concen: 2.061 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.00 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

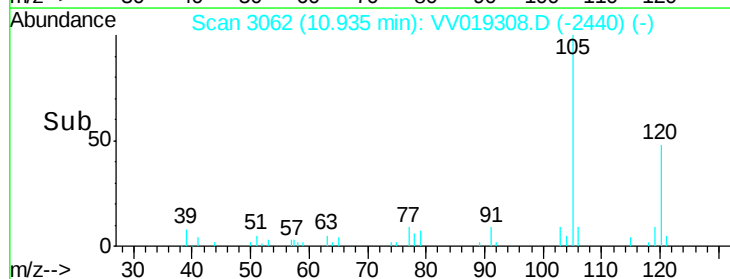
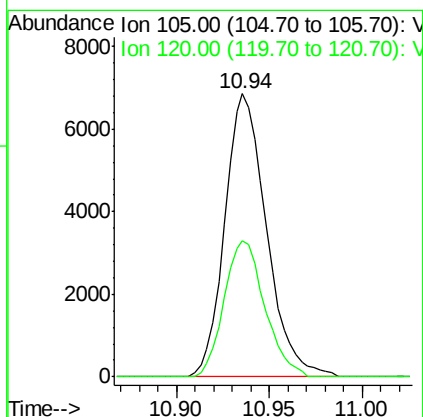
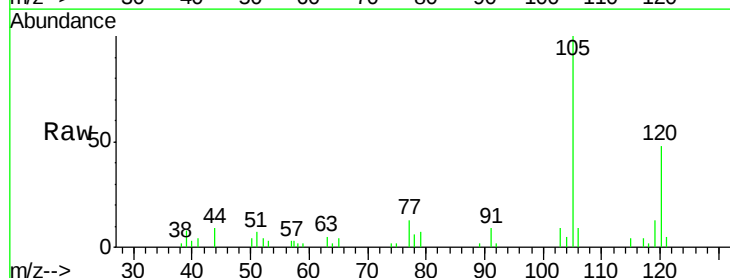
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

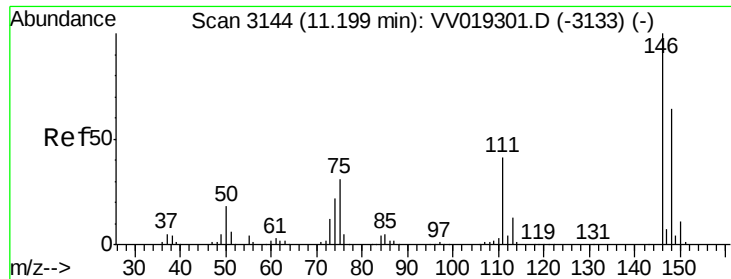
Tot Ion:105 Resp: 11468
 Ion Ratio Lower Upper
 105 100
 120 49.0 38.3 57.5



#63
 1,2,4-Trimethylbenzene
 Concen: 1.966 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

Tgt Ion:105 Resp: 10703
 Ion Ratio Lower Upper
 105 100
 120 46.9 35.7 53.5





#64

1,3-Dichlorobenzene

Concen: 2.367 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.01 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

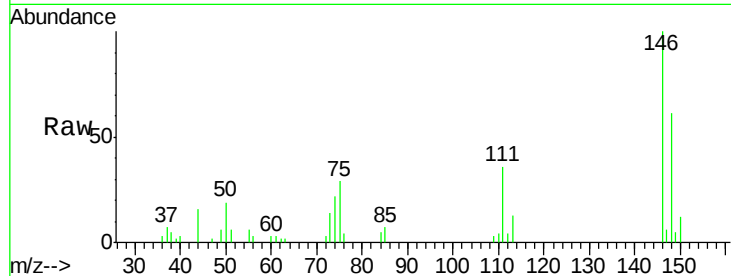
Tot Ion:146 Resp: 8271

Ion Ratio Lower Upper

146 100

111 36.4 27.3 50.7

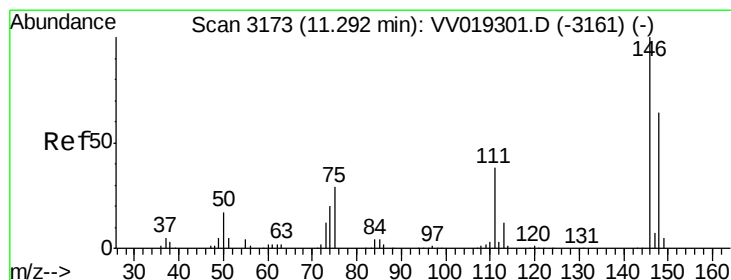
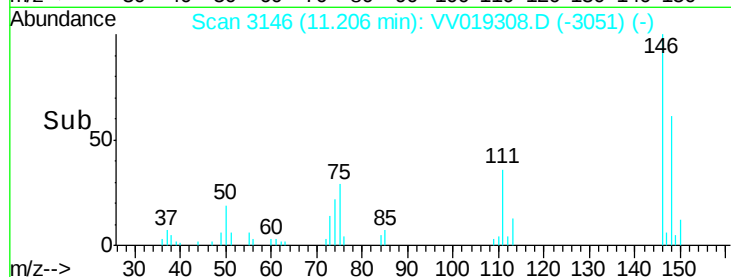
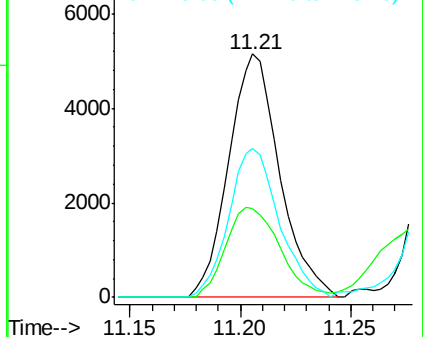
148 61.0 45.2 84.0



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: 2.578 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV019308.D

Acq: 09 Nov 2020 17:35

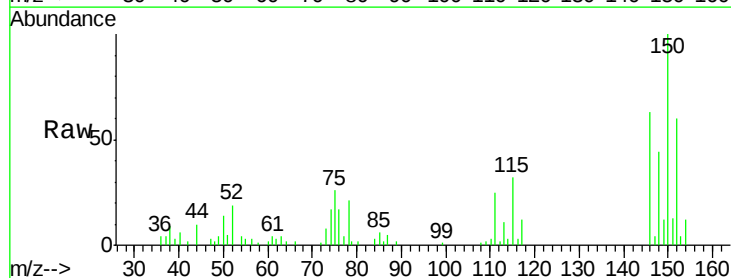
Tgt Ion:146 Resp: 9322

Ion Ratio Lower Upper

146 100

111 38.9 25.9 48.1

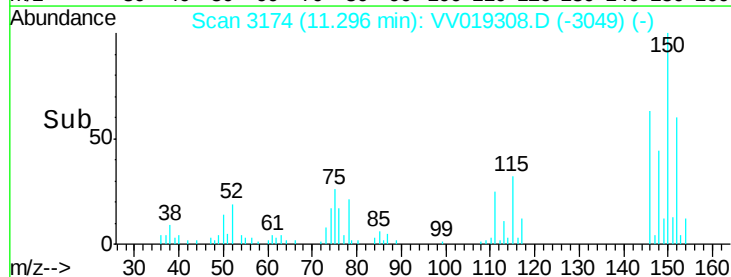
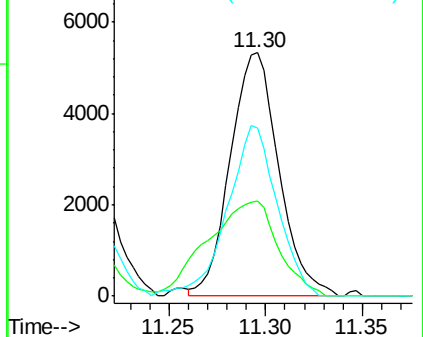
148 69.1 44.9 83.5

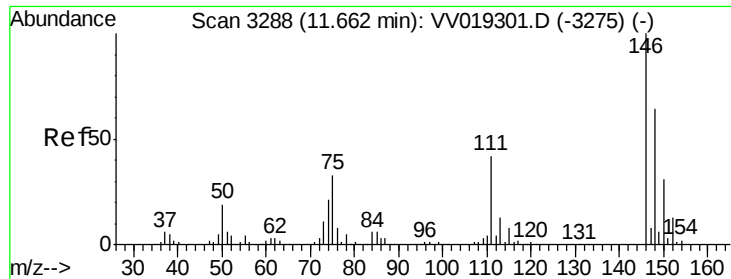


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

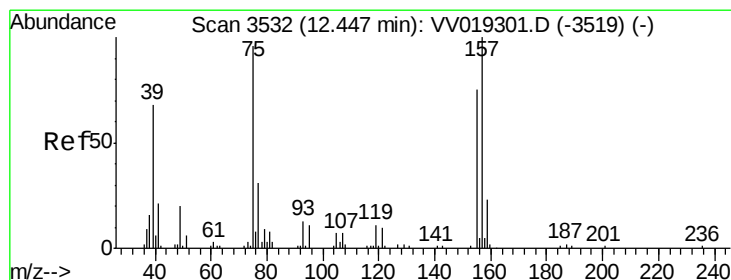
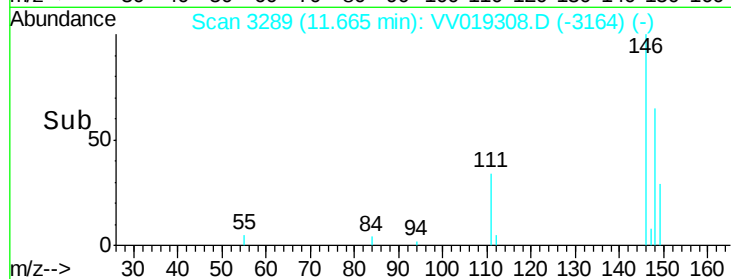
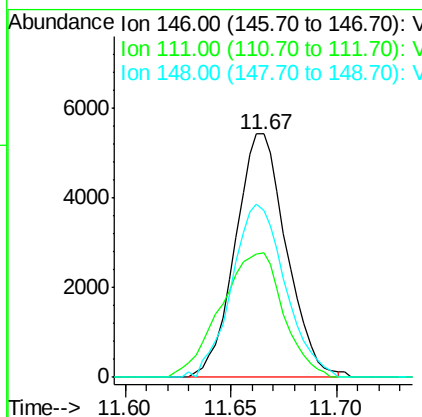
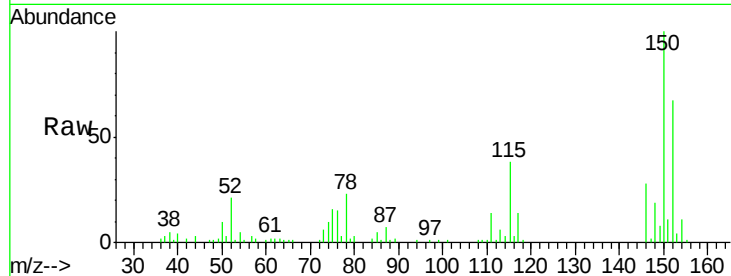




#67
 1,2-Dichlorobenzene
 Concen: 2.551 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

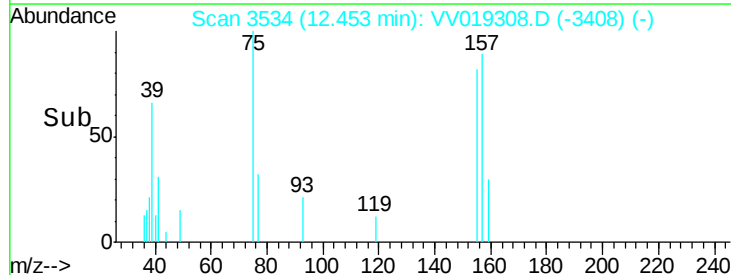
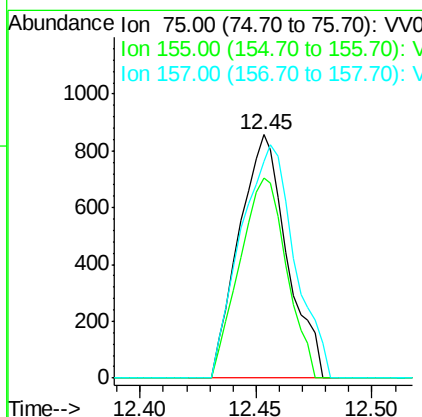
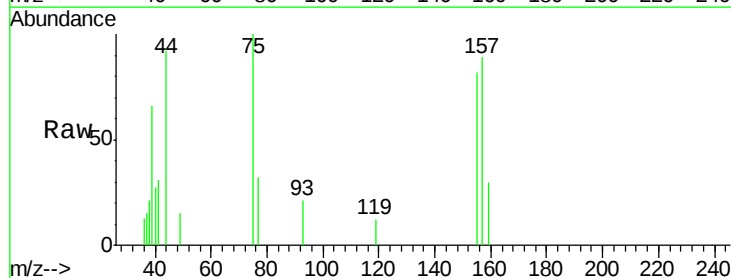
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

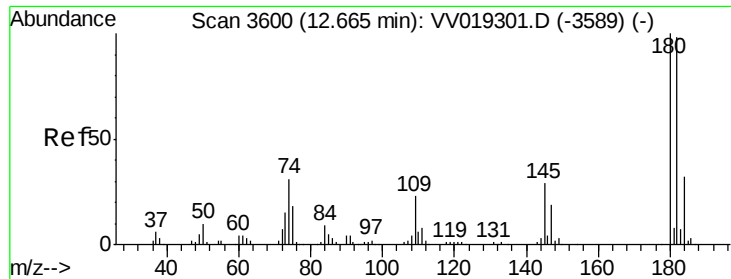
Tot Ion:146 Resp: 9121
 Ion Ratio Lower Upper
 146 100
 111 51.2 32.6 48.8#
 148 68.5 50.1 75.1



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.136 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.01 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

Tgt Ion: 75 Resp: 1234
 Ion Ratio Lower Upper
 75 100
 155 82.3 65.8 98.6
 157 89.3 86.3 129.5

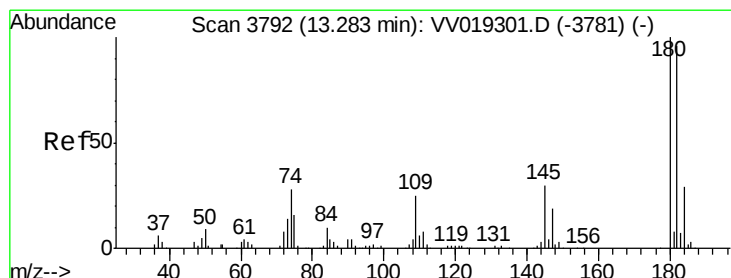
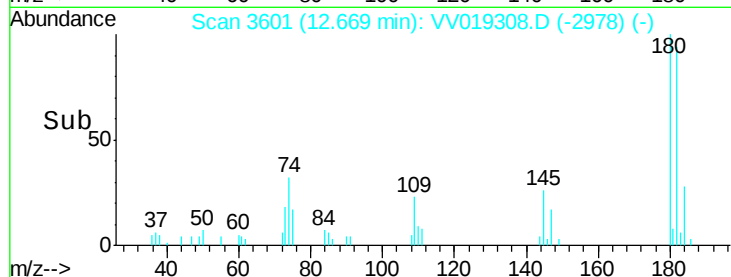
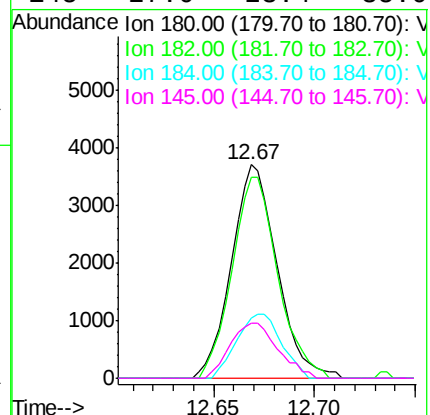
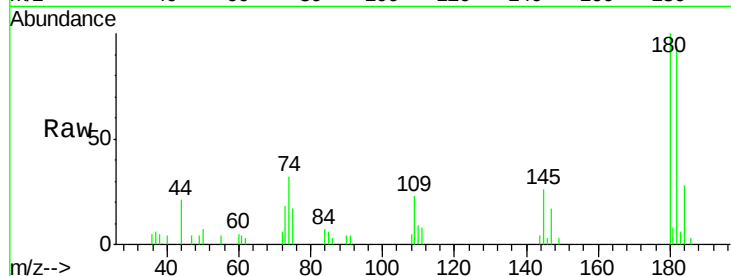




#69
 1,3,5-Trichlorobenzene
 Concen: 2.335 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

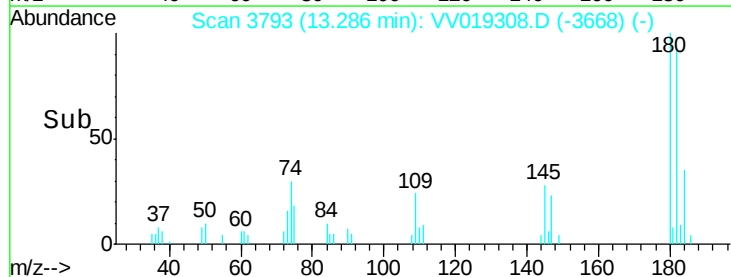
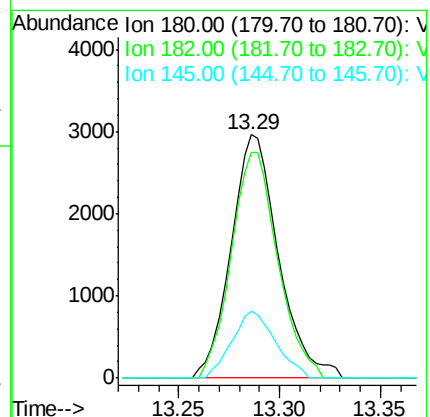
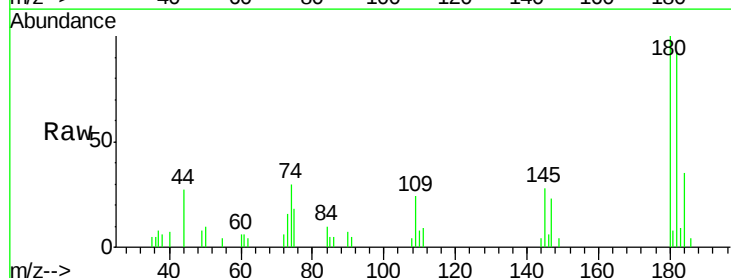
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

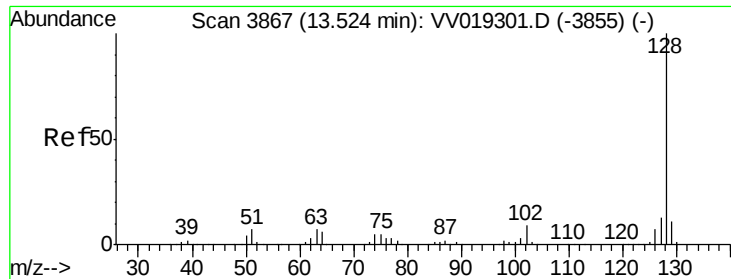
Tot Ion:180 Resp: 5857
 Ion Ratio Lower Upper
 180 100
 182 94.5 77.7 116.5
 184 29.5 24.9 37.3
 145 27.0 23.4 35.0



#70
 1,2,4-trichlorobenzene
 Concen: 2.061 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019308.D
 Acq: 09 Nov 2020 17:35

Tgt Ion:180 Resp: 4864
 Ion Ratio Lower Upper
 180 100
 182 90.7 76.6 114.8
 145 25.3 23.2 34.8

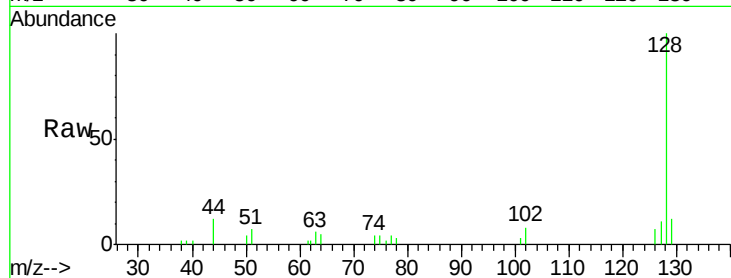




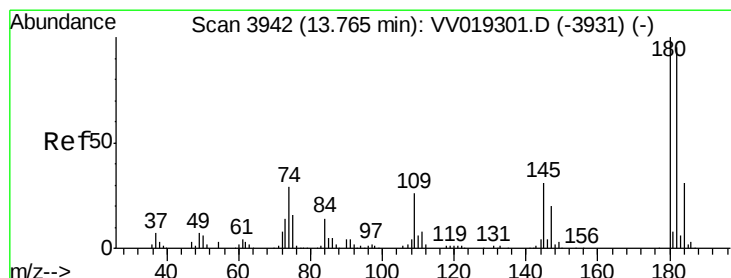
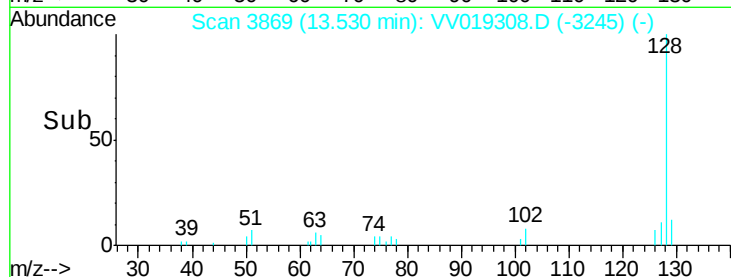
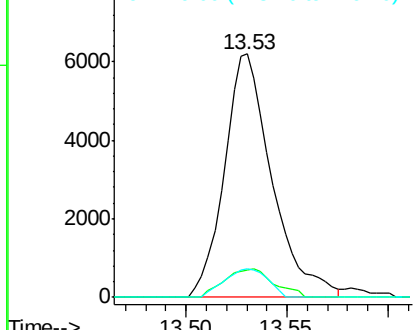
#71
Naphthalene
Concen: 1.534 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion:128 Resp: 10209
Ion Ratio Lower Upper
128 100
127 12.2 10.7 16.1
129 10.6 8.6 13.0

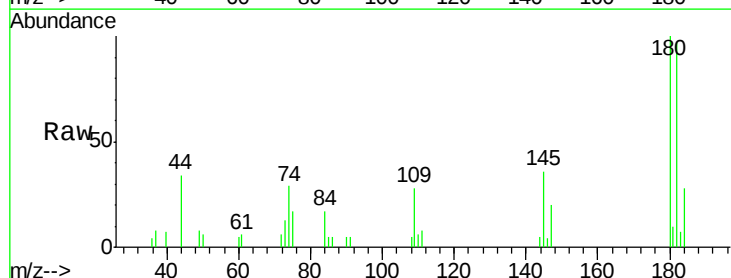


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 1.988 ug/L
RT: 13.77 min Scan# 3944
Delta R.T. 0.01 min
Lab File: VV019308.D
Acq: 09 Nov 2020 17:35

Tgt Ion:180 Resp: 4652
Ion Ratio Lower Upper
180 100
182 90.9 77.4 116.0
145 33.3 24.7 37.1



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

