

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110220\
 Data File : VX019216.D
 Acq On : 02 Nov 2020 17:04
 Operator : JC/MD
 Sample : L4485-15 2.5PPB MDL
 Misc : 5.0µ/5mL/100µL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-01

Quant Time: Nov 03 07:26:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM110220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Nov 02 14:52:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	439775	50.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	407343	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.06	152	177114	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	179479	47.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.82%
7) Chloroethane-d5	1.70	69	141421	50.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.62%
11) 1,1-Dichloroethene-d2	2.34	63	234980	37.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.24%
21) 2-Butanone-d5	4.53	46	210130	108.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.79%
24) Chloroform-d	5.14	84	291289	47.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.48%
26) 1,2-Dichloroethane-d4	6.03	65	203451	46.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.88%
32) Benzene-d6	6.05	84	617782	48.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.72%
36) 1,2-Dichloropropane-d6	7.37	67	187149	50.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.26%
41) Toluene-d8	8.70	98	568811	44.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.62%
43) trans-1,3-Dichloropropene-	8.99	79	95555	48.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.50%
47) 2-Hexanone-d5	9.43	63	171020	110.89	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.89%
56) 1,1,2,2-Tetrachloroethane-	11.23	84	221320	50.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.48%
66) 1,2-Dichlorobenzene-d4	12.36	152	180792	50.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.68%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	5711	2.049 ug/L	99
3) Chloromethane	1.31	50	7187	2.538 ug/L	98
5) Vinyl chloride	1.39	62	8251	2.585 ug/L #	57
6) Bromomethane	1.64	94	5484	2.600 ug/L	99
8) Chloroethane	1.72	64	4915	2.471 ug/L	93
9) Trichlorofluoromethane	1.92	101	10337	2.183 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	7629	2.793 ug/L #	76
12) 1,1-Dichloroethene	2.36	96	7604	2.869 ug/L #	1
13) Acetone	2.43	43	6046	5.065 ug/L	98
14) Carbon disulfide	2.56	76	17769	2.222 ug/L	99
15) Methyl Acetate	2.75	43	7641	2.933 ug/L	100
16) Methylene chloride	2.84	84	7288	2.466 ug/L	96
17) trans-1,2-Dichloroethene	3.15	96	6491	2.278 ug/L	98
18) Methyl tert-butyl Ether	3.17	73	21349	2.370 ug/L	98
19) 1,1-Dichloroethane	3.67	63	11756	2.322 ug/L	94
20) cis-1,2-Dichloroethene	4.56	96	7325	2.341 ug/L	100
22) 2-Butanone	4.64	43	10039	5.325 ug/L #	72

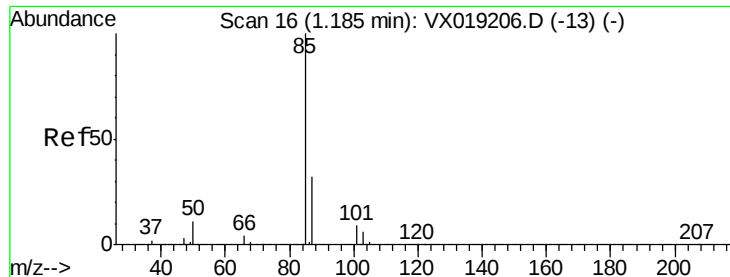
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110220\
 Data File : VX019216.D
 Acq On : 02 Nov 2020 17:04
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 Quant Title : VOC Analysis
 QLast Update : Mon Nov 02 14:52:07 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.98	128	3839	2.436	ug/L	85
25) Chloroform	5.17	83	21316	4.011	ug/L	99
27) 1,2-Dichloroethane	6.17	62	10096	2.413	ug/L	99
29) Cyclohexane	5.55	56	8870	1.892	ug/L	98
30) 1,1,1-Trichloroethane	5.46	97	10715	2.182	ug/L	98
31) Carbon tetrachloride	5.76	117	8558	2.029	ug/L	97
33) Benzene	6.12	78	26888	2.299	ug/L	100
34) Trichloroethene	7.18	95	6832	2.140	ug/L	95
35) Methylcyclohexane	7.44	83	9422	1.865	ug/L	98
37) 1,2-Dichloropropane	7.49	63	6849	2.358	ug/L #	95
38) Bromodichloromethane	7.87	83	8850	2.191	ug/L	95
39) cis-1,3-Dichloropropene	8.42	75	10697	2.216	ug/L	100
40) 4-Methyl-2-pentanone	8.62	43	17602	4.955	ug/L	99
42) Toluene	8.76	91	36506	2.870	ug/L	100
44) trans-1,3-Dichloropropene	9.02	75	10729	2.282	ug/L	99
45) 1,1,2-Trichloroethane	9.20	97	6845	2.399	ug/L	95
46) Tetrachloroethene	9.32	164	4924	2.045	ug/L	97
48) 2-Hexanone	9.47	43	15676	5.600	ug/L	99
49) Dibromochloromethane	9.56	129	6495	2.081	ug/L	100
50) 1,2-Dibromoethane	9.65	107	7265	2.434	ug/L	97
51) Chlorobenzene	10.12	112	18270	2.309	ug/L	99
52) Ethylbenzene	10.23	91	29440	2.141	ug/L	99
53) m,p-Xylene	10.34	106	10842	2.099	ug/L	99
54) o-Xylene	10.68	106	10584	2.116	ug/L	88
55) Styrene	10.70	104	16973	2.011	ug/L	96
57) 1,1,2,2-Tetrachloroethane	11.25	83	10032	2.565	ug/L #	94
59) Bromoform	10.84	173	4139	2.157	ug/L	97
60) Isopropylbenzene	11.00	105	26661	2.218	ug/L	98
61) 1,2,3-Trichloropropane	11.28	75	7959	2.638	ug/L	100
62) 1,3,5-Trimethylbenzene	11.49	105	21132	2.137	ug/L	98
63) 1,2,4-Trimethylbenzene	11.79	105	21649	2.315	ug/L	99
64) 1,3-Dichlorobenzene	12.01	146	11982	2.309	ug/L	95
65) 1,4-Dichlorobenzene	12.08	146	12514	2.376	ug/L	98
67) 1,2-Dichlorobenzene	12.38	146	11891	2.366	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.98	75	2033	2.474	ug/L #	81
69) 1,3,5-Trichlorobenzene	13.15	180	7906	2.175	ug/L	97
70) 1,2,4-trichlorobenzene	13.63	180	7382	2.204	ug/L	99
71) Naphthalene	13.82	128	22847	2.109	ug/L	98
72) 1,2,3-Trichlorobenzene	14.00	180	7384	2.253	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 2.049 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

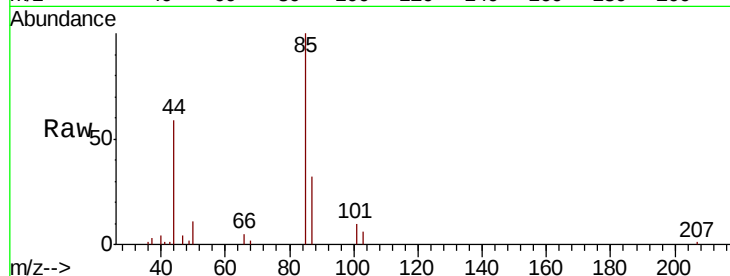
MDL-ME-SOIL-01

Tot Ion: 85 Resp: 5711

Ion Ratio Lower Upper

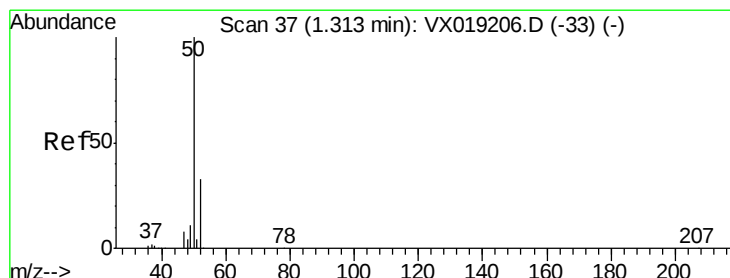
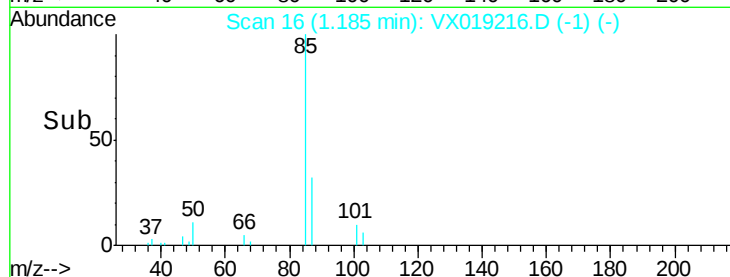
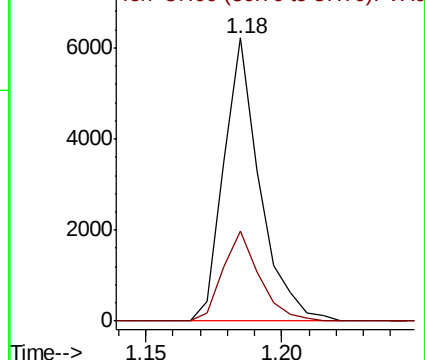
85 100

87 32.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#3

Chloromethane

Concen: 2.538 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019216.D

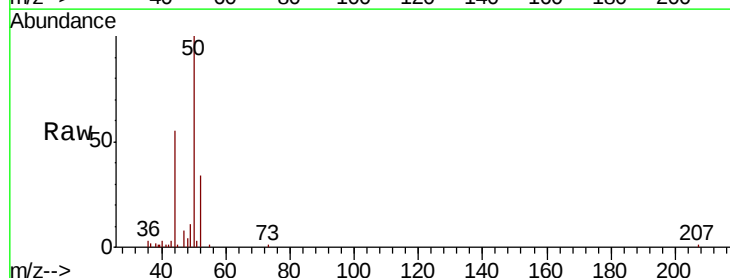
Acq: 02 Nov 2020 17:04

Tgt Ion: 50 Resp: 7187

Ion Ratio Lower Upper

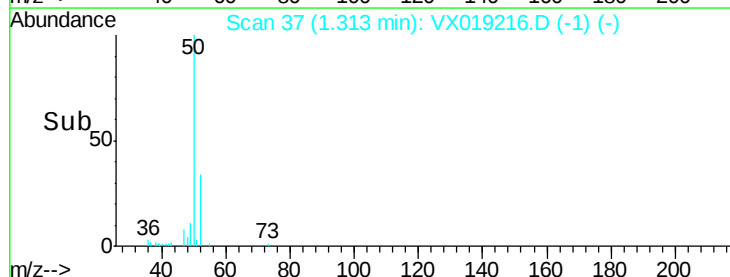
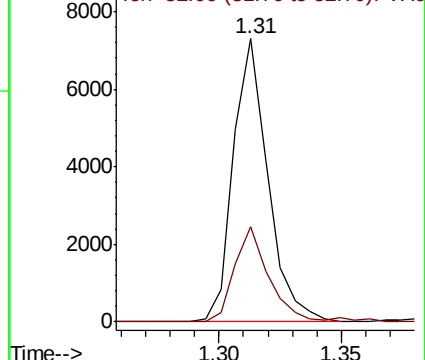
50 100

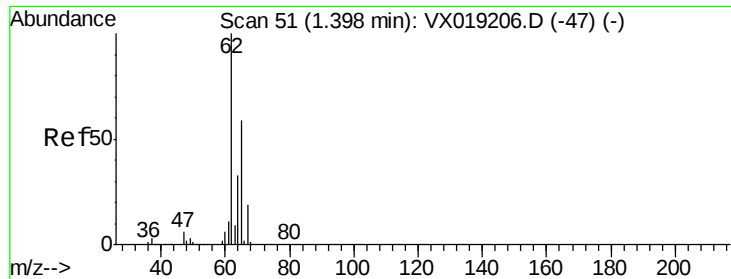
52 33.7 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Vinyl chloride

Concen: 2.585 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

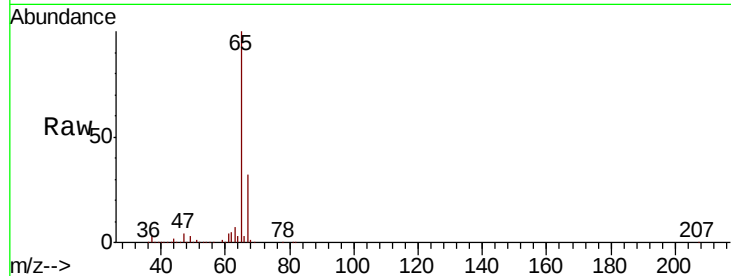
MDL-ME-SOIL-01

Tot Ion: 62 Resp: 8251

Ion Ratio Lower Upper

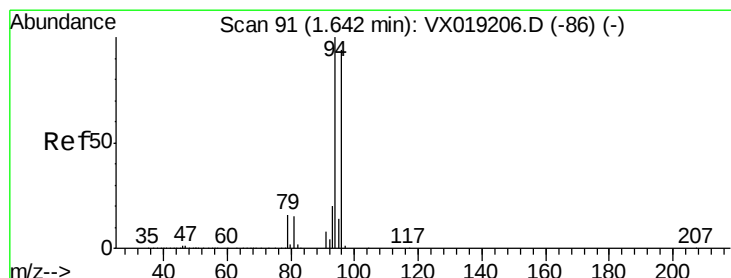
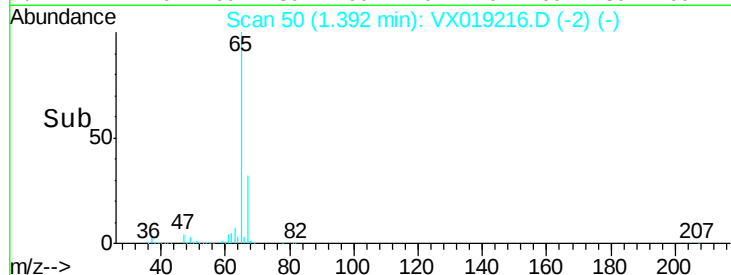
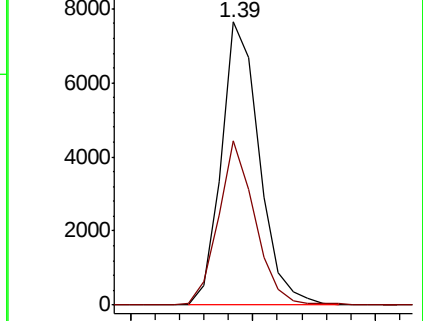
62 100

64 57.9 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0



#6

Bromomethane

Concen: 2.600 ug/L

RT: 1.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX019216.D

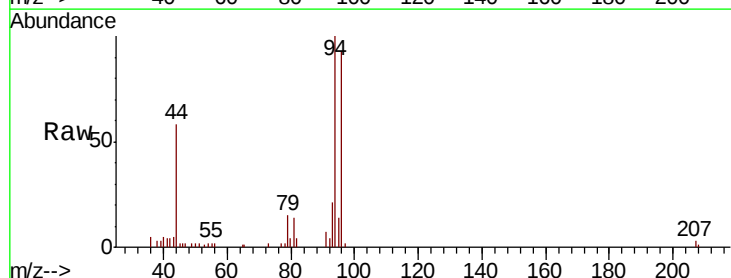
Acq: 02 Nov 2020 17:04

Tgt Ion: 94 Resp: 5484

Ion Ratio Lower Upper

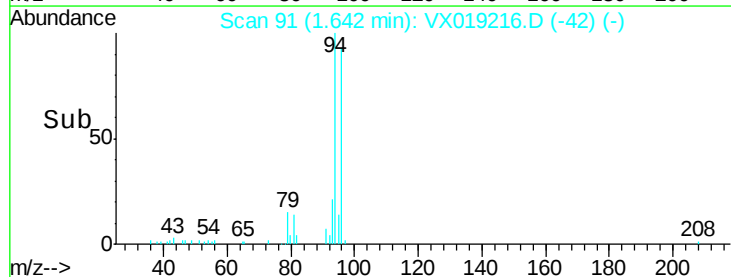
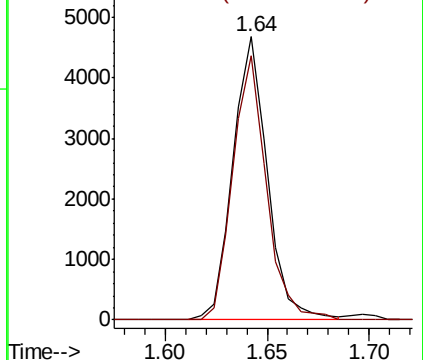
94 100

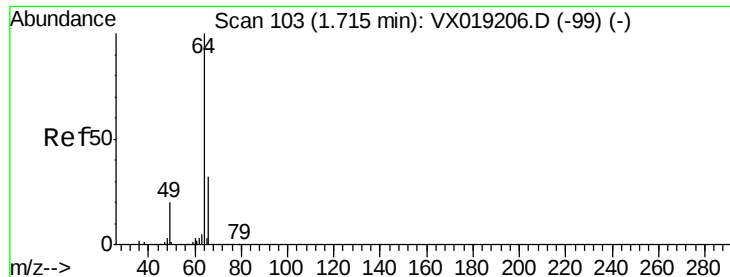
96 93.1 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

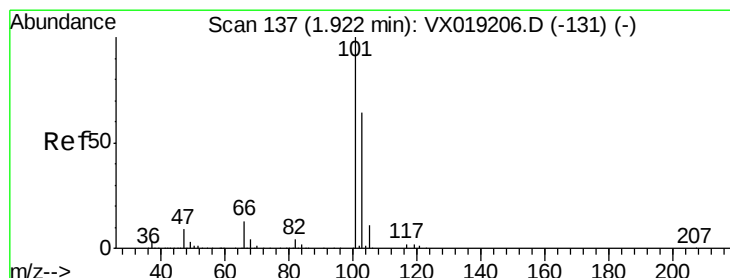
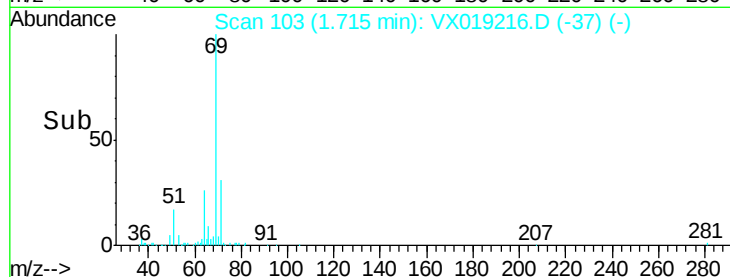
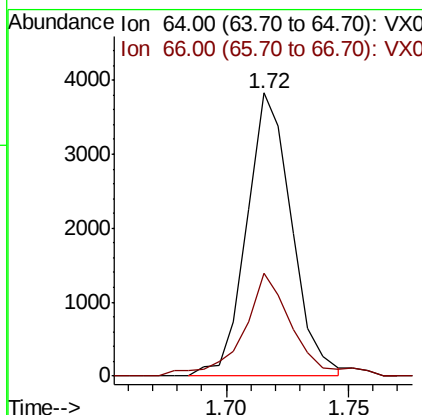
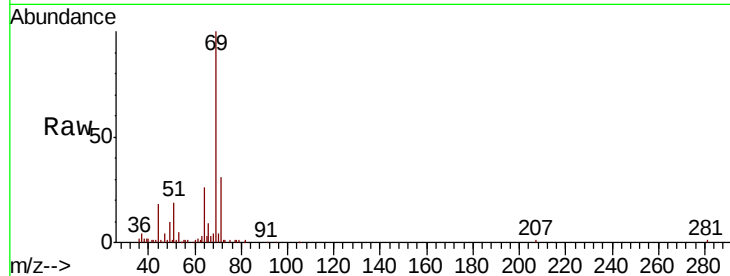




#8
Chloroethane
Concen: 2.471 ug/L
RT: 1.72 min Scan# 103
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

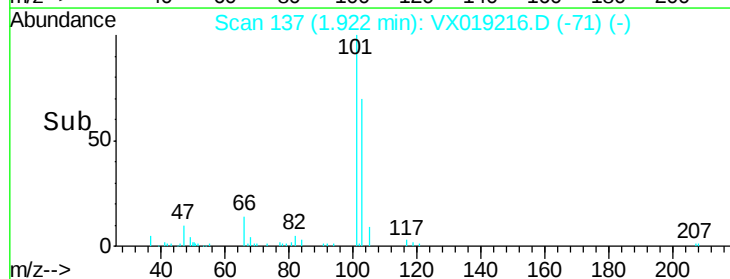
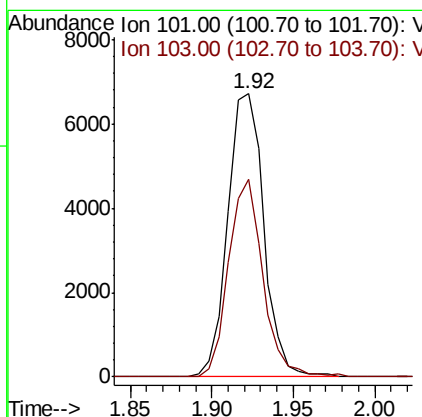
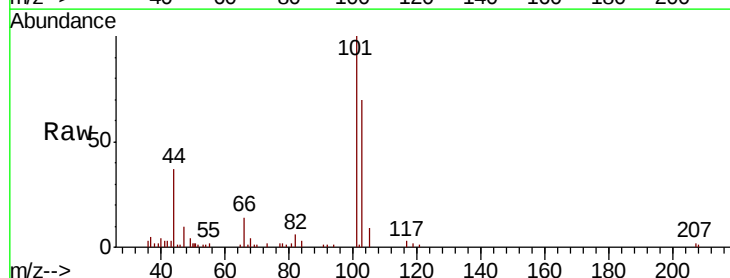
Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-01

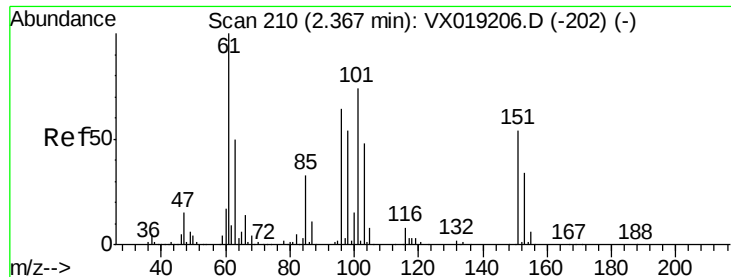
Tot Ion: 64 Resp: 4915
Ion Ratio Lower Upper
64 100
66 36.3 22.5 41.9



#9
Trichlorofluoromethane
Concen: 2.183 ug/L
RT: 1.92 min Scan# 137
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Tgt Ion: 101 Resp: 10337
Ion Ratio Lower Upper
101 100
103 66.1 51.3 76.9





#10

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

Concen: 2.793 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

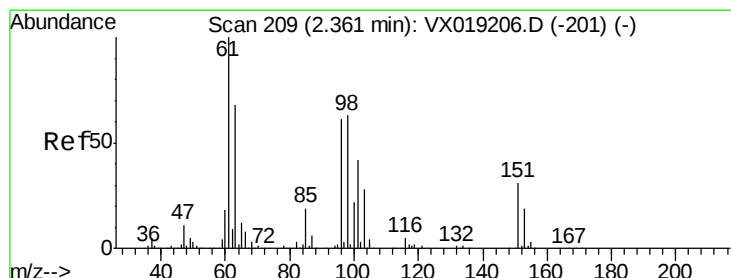
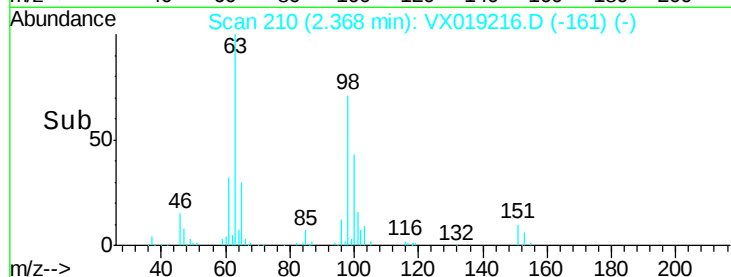
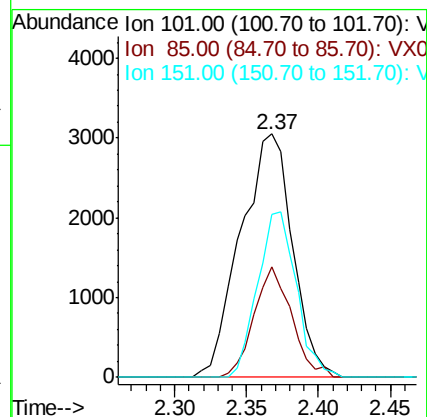
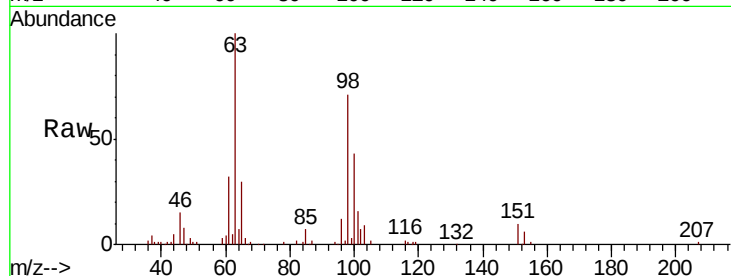
Tot Ion:101 Resp: 7629

Ion Ratio Lower Upper

101 100

85 32.7 35.0 52.4#

151 50.5 59.9 89.9#



#12

1,1-Dichloroethene

Concen: 2.869 ug/L

RT: 2.36 min Scan# 208

Delta R.T. -0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

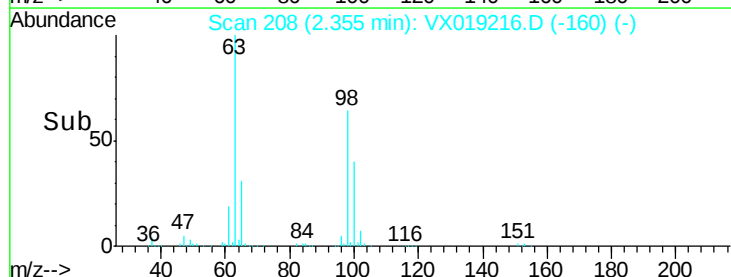
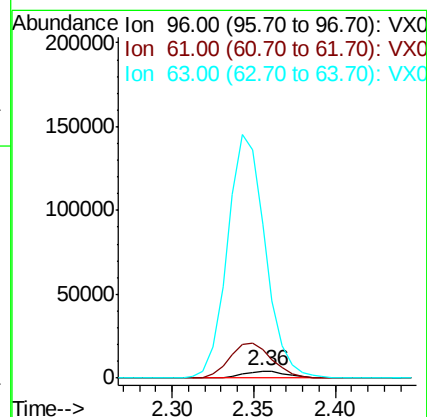
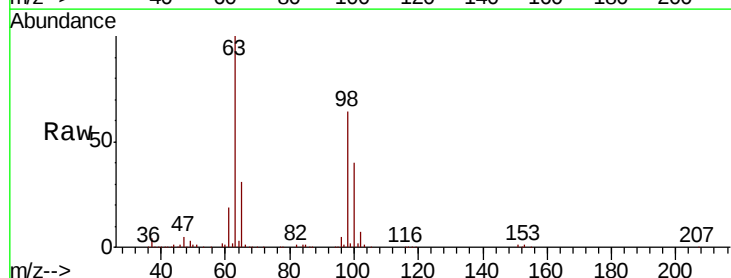
Tgt Ion: 96 Resp: 7604

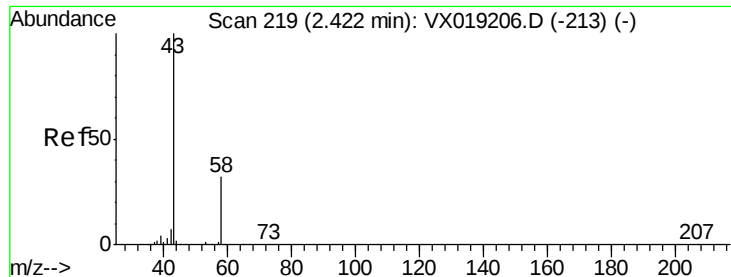
Ion Ratio Lower Upper

96 100

61 395.6 115.1 213.8#

63 2120.7 78.3 145.5#





#13

Acetone

Concen: 5.065 ug/L

RT: 2.43 min Scan# 221

Delta R.T. 0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

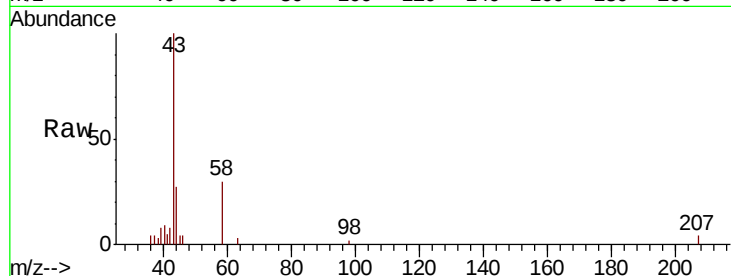
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 6046

Ion Ratio Lower Upper

43 100

58 33.3 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

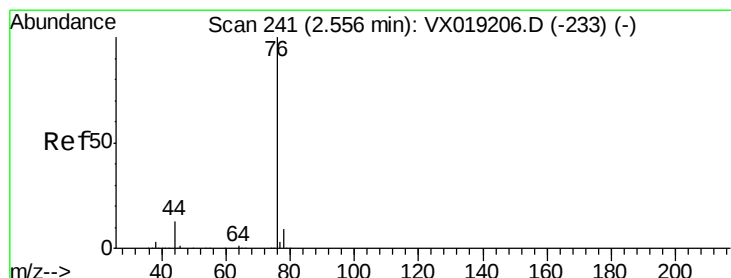
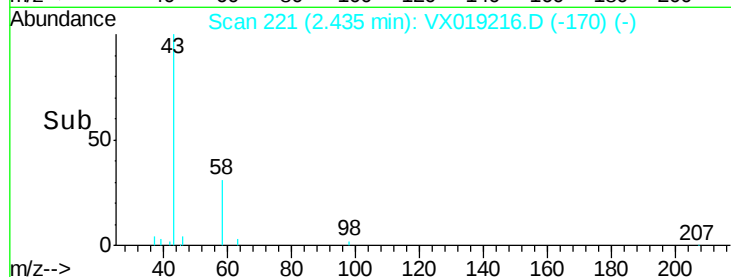
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50



#14

Carbon disulfide

Concen: 2.222 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VX019216.D

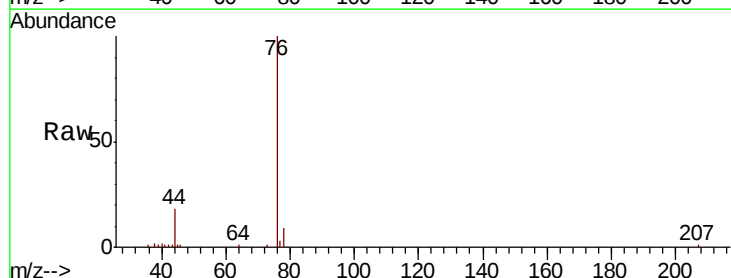
Acq: 02 Nov 2020 17:04

Tgt Ion: 76 Resp: 17769

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

2.56

12000

10000

8000

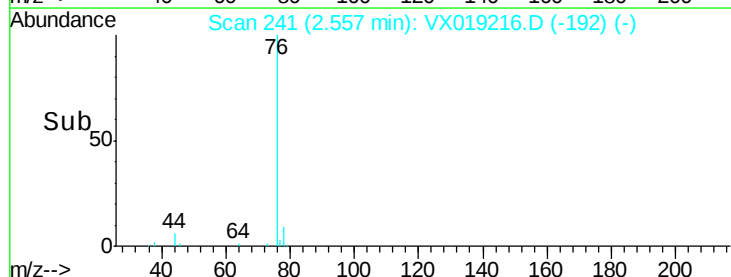
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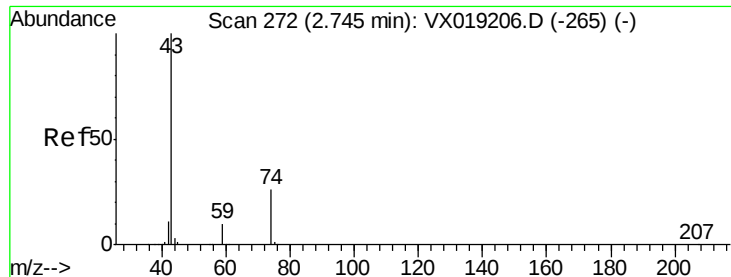
4000

2000

0

Time--> 2.50 2.55 2.60

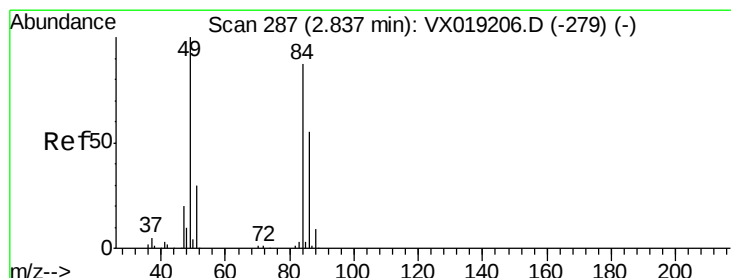
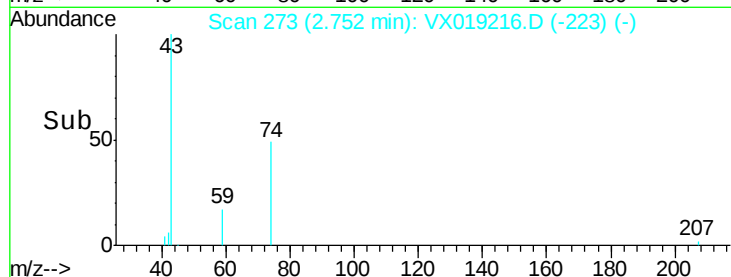
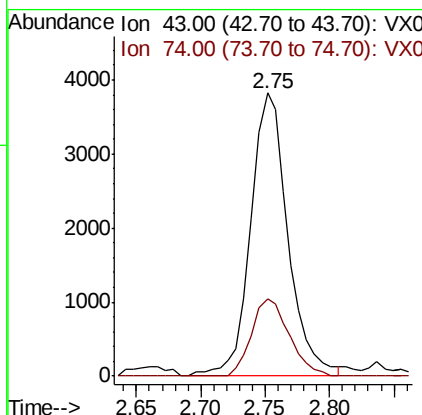
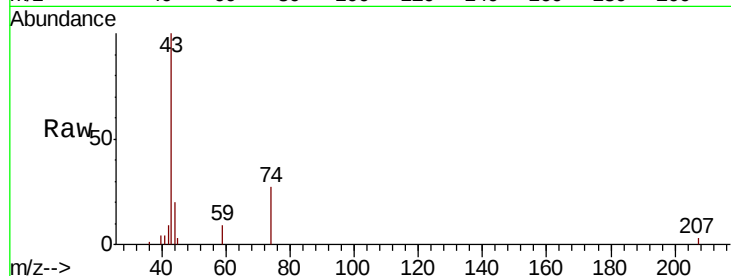




#15
Methyl Acetate
Concen: 2.933 ug/L
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

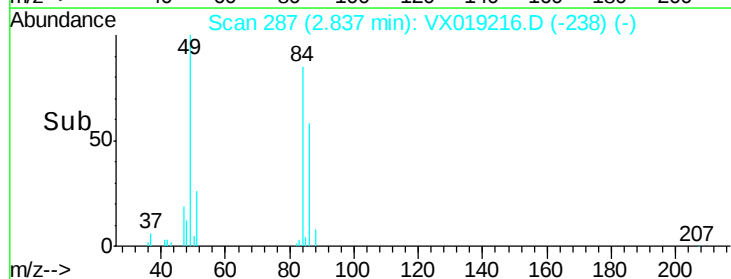
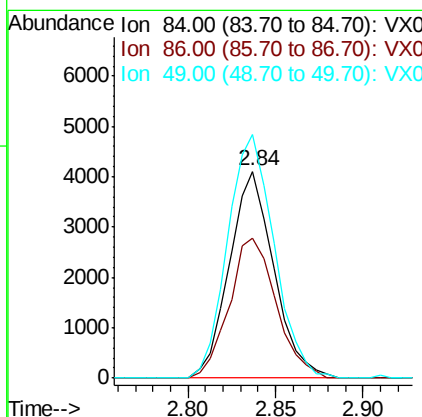
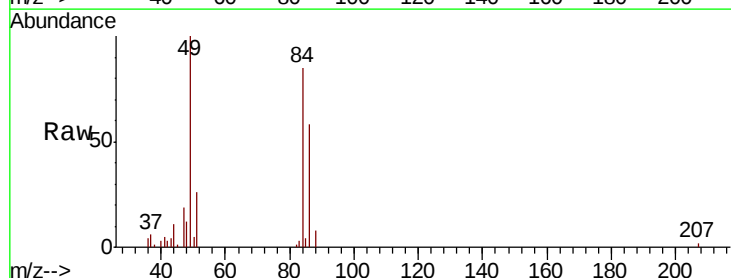
Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-01

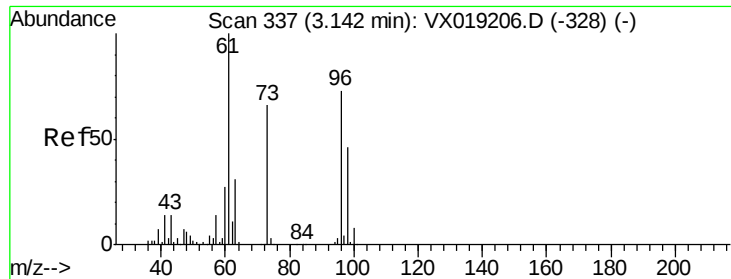
Tot Ion: 43 Resp: 7641
Ion Ratio Lower Upper
43 100
74 27.4 21.8 32.8



#16
Methylene chloride
Concen: 2.466 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Tgt Ion: 84 Resp: 7288
Ion Ratio Lower Upper
84 100
86 67.7 44.0 81.6
49 117.7 80.6 149.6





#17

trans-1,2-Dichloroethene

Concen: 2.278 ug/L

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

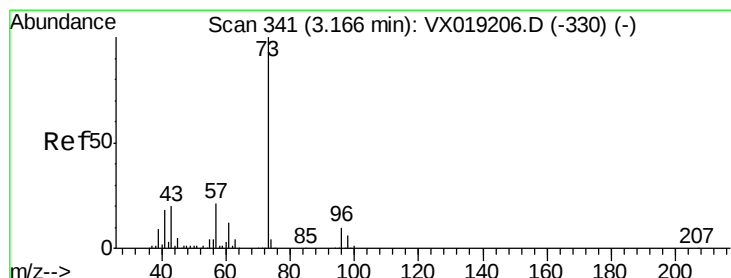
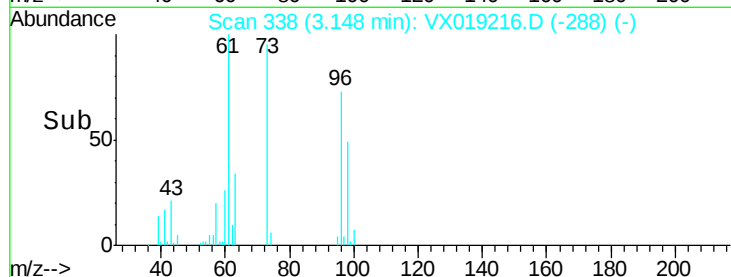
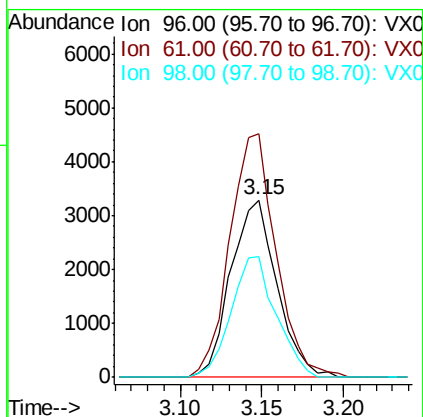
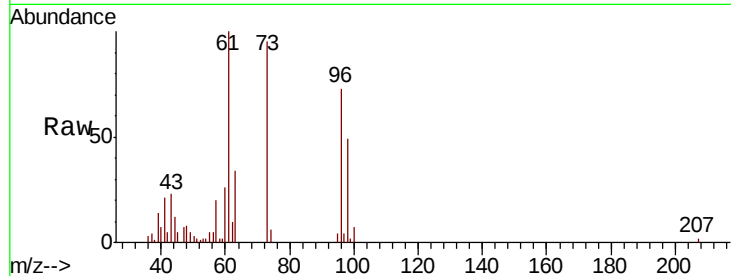
Tot Ion: 96 Resp: 6491

Ion Ratio Lower Upper

96 100

61 137.2 95.7 177.7

98 67.8 44.2 82.0



#18

Methyl tert-butyl Ether

Concen: 2.370 ug/L

RT: 3.17 min Scan# 341

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

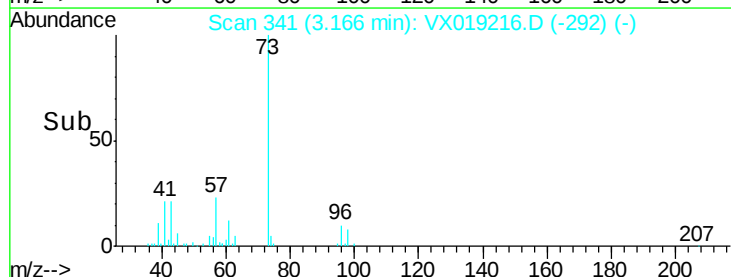
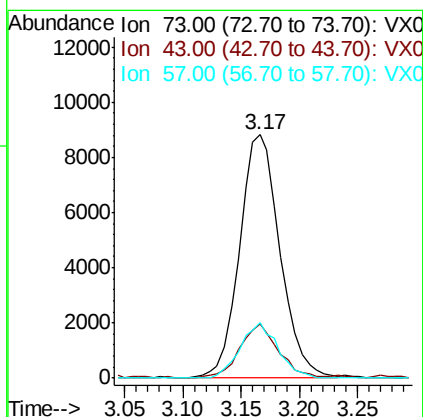
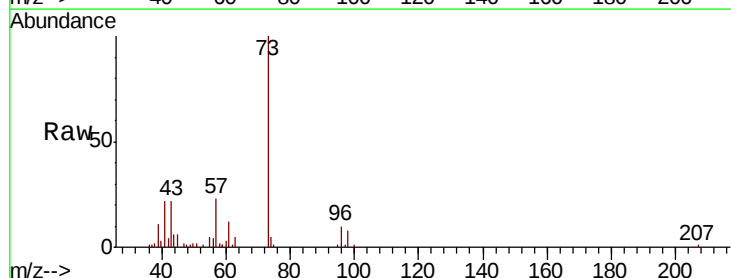
Tgt Ion: 73 Resp: 21349

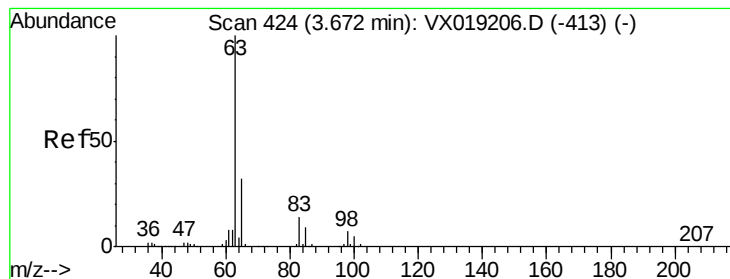
Ion Ratio Lower Upper

73 100

43 21.5 15.8 23.6

57 21.1 17.0 25.4





#19

1,1-Dichloroethane

Concen: 2.322 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

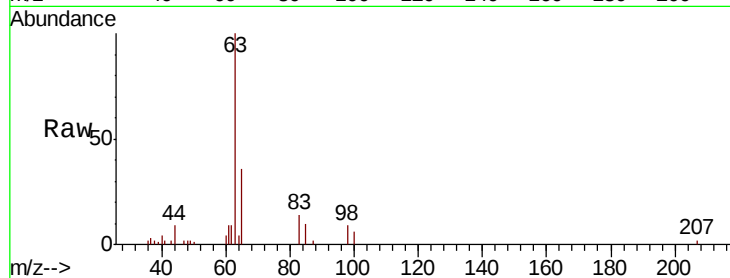
Tot Ion: 63 Resp: 11756

Ion Ratio Lower Upper

63 100

65 36.2 22.3 41.3

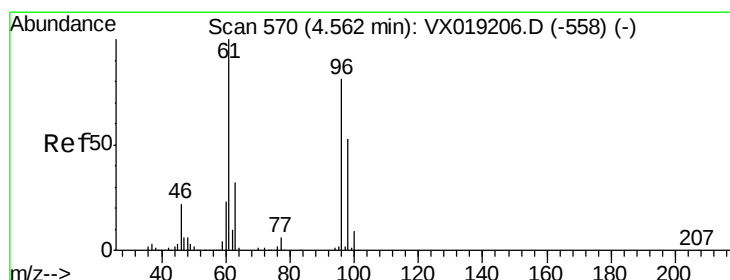
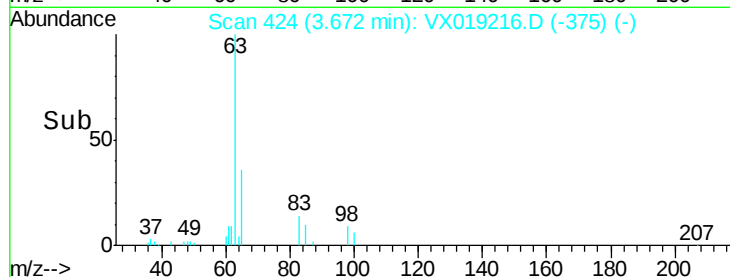
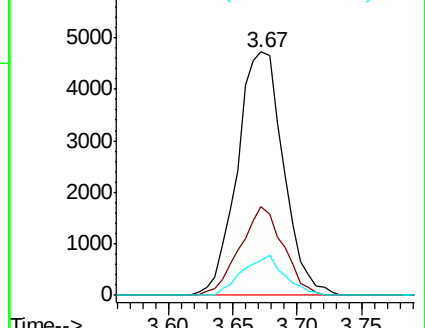
83 14.1 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 83.00 (82.70 to 83.70): VX0



#20

cis-1,2-Dichloroethene

Concen: 2.341 ug/L

RT: 4.56 min Scan# 570

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

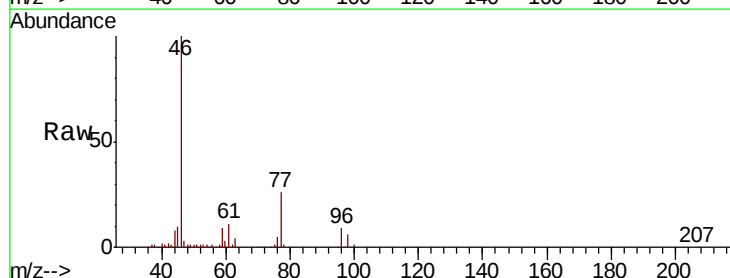
Tgt Ion: 96 Resp: 7325

Ion Ratio Lower Upper

96 100

61 122.5 86.1 159.9

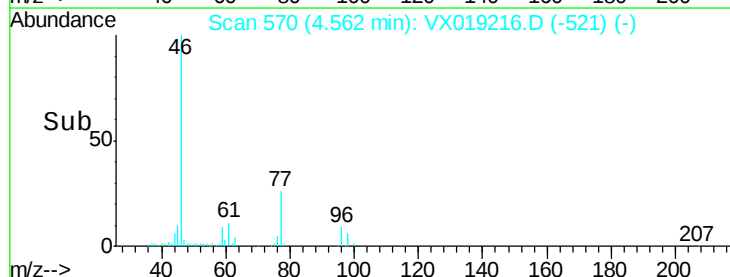
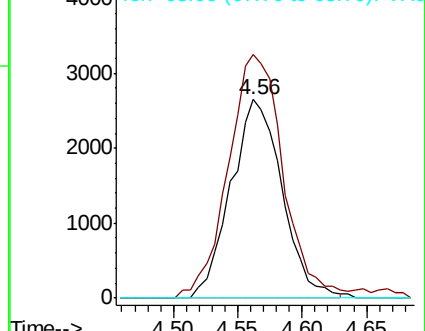
68 0.0 0.0 0.0

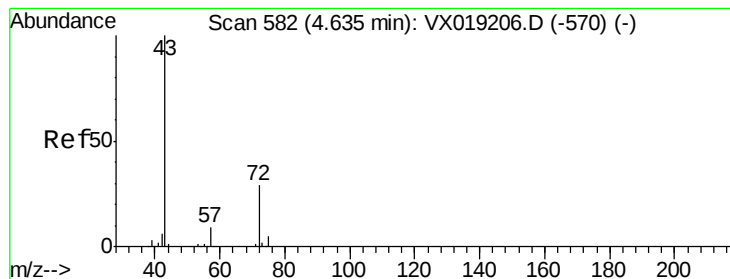


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 68.00 (67.70 to 68.70): VX0





#22

2-Butanone

Concen: 5.325 ug/L

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

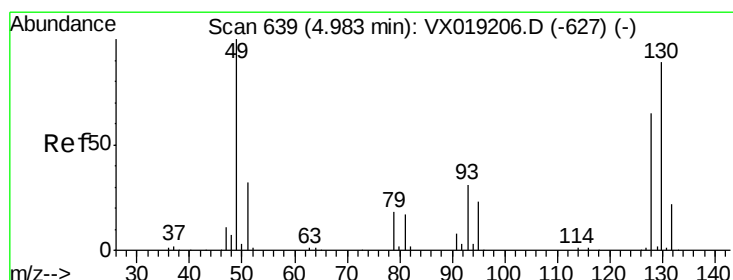
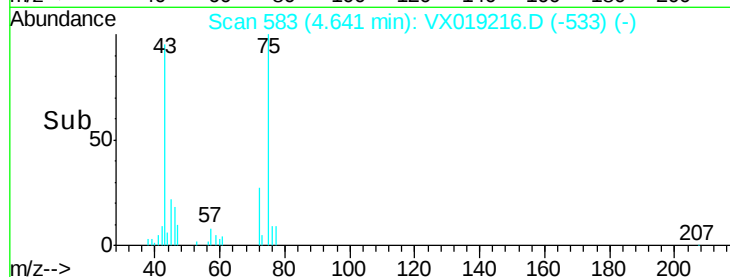
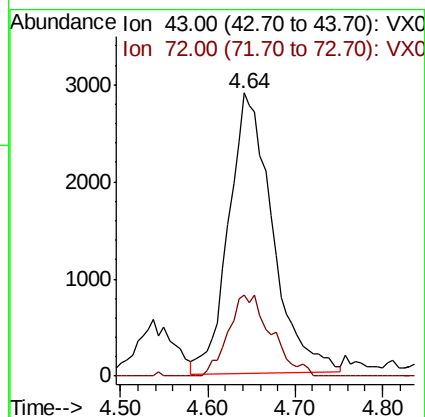
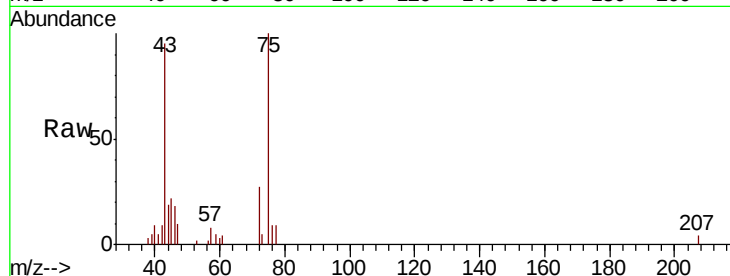
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 10039

Ion Ratio Lower Upper

43 100

72 14.9 15.0 45.0#



#23

Bromochloromethane

Concen: 2.436 ug/L

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Tgt Ion: 128 Resp: 3839

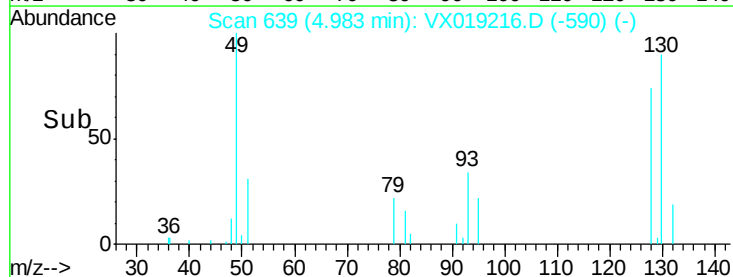
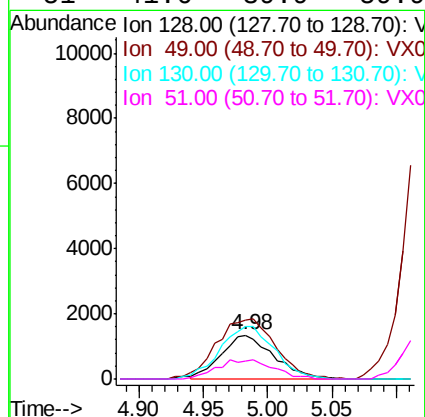
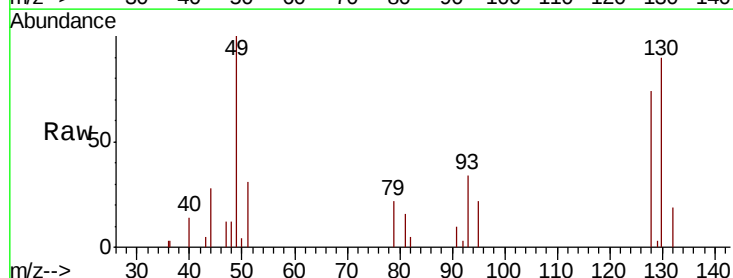
Ion Ratio Lower Upper

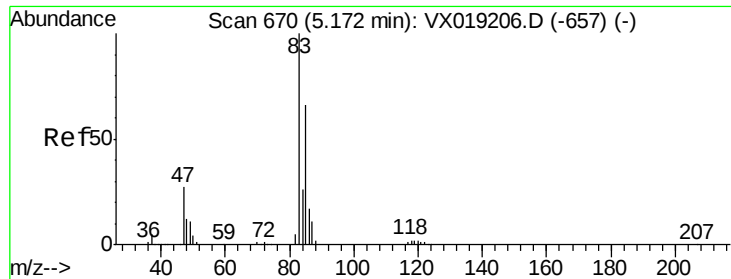
128 100

49 134.8 108.4 201.4

130 120.9 96.7 179.7

51 41.6 39.9 59.9

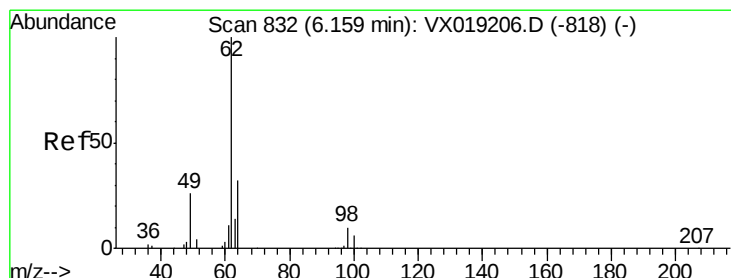
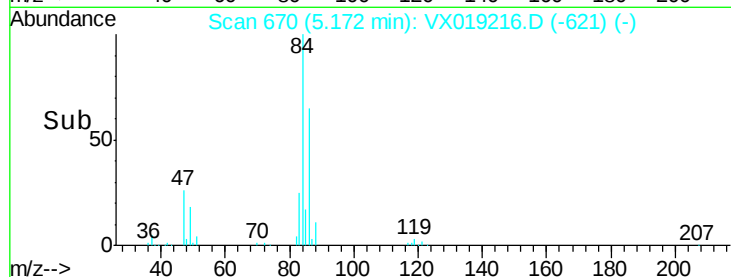
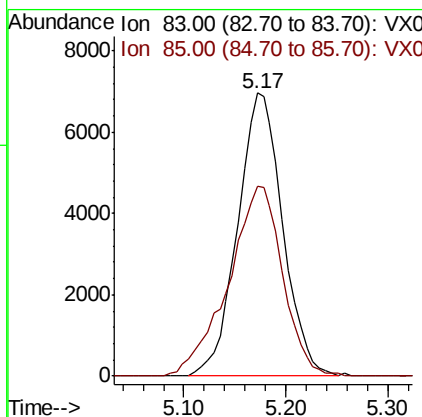
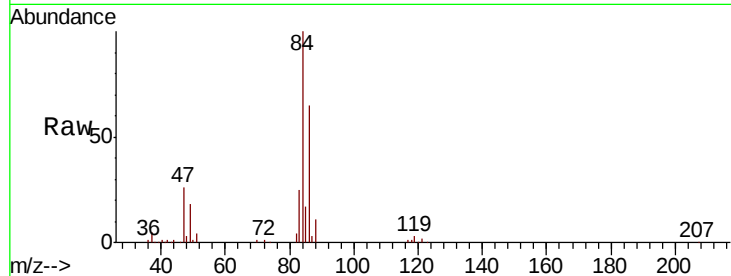




#25
Chloroform
Concen: 4.011 ug/L
RT: 5.17 min Scan# 670
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

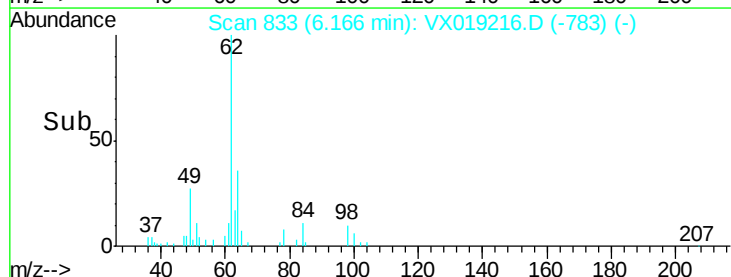
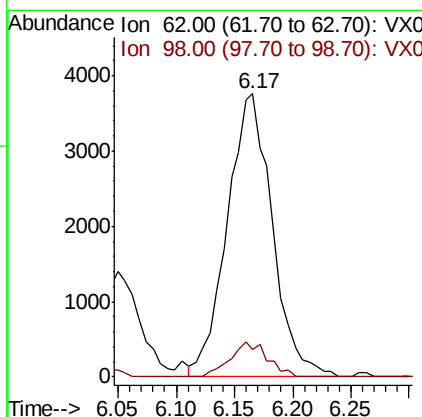
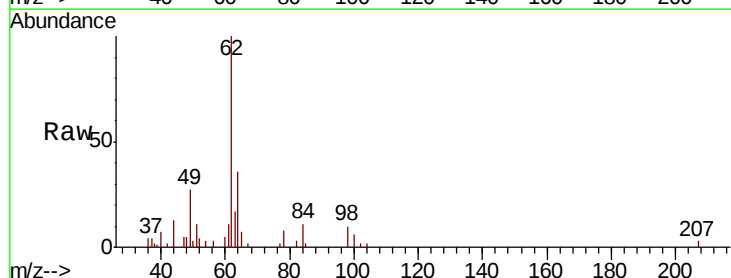
Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-01

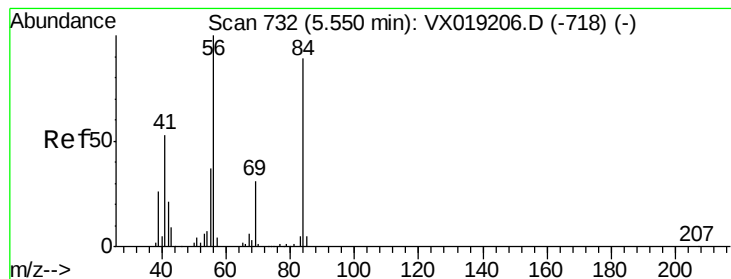
Tot Ion: 83 Resp: 21316
Ion Ratio Lower Upper
83 100
85 67.0 46.5 86.3



#27
1,2-Dichloroethane
Concen: 2.413 ug/L
RT: 6.17 min Scan# 833
Delta R.T. 0.01 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Tgt Ion: 62 Resp: 10096
Ion Ratio Lower Upper
62 100
98 9.9 7.6 11.4





#29

Cyclohexane

Concen: 1.892 ug/L

RT: 5.55 min Scan# 732

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

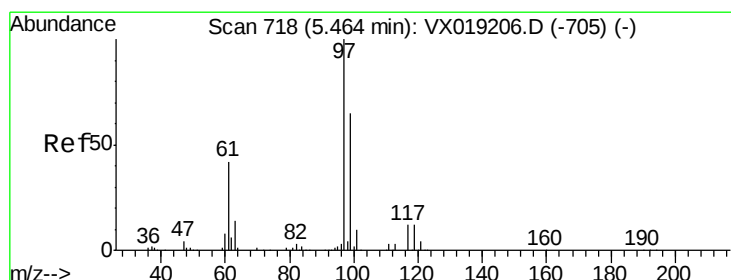
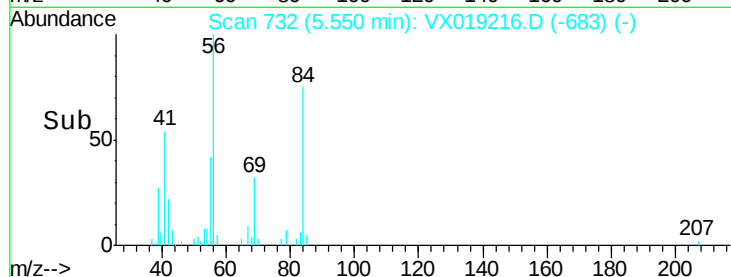
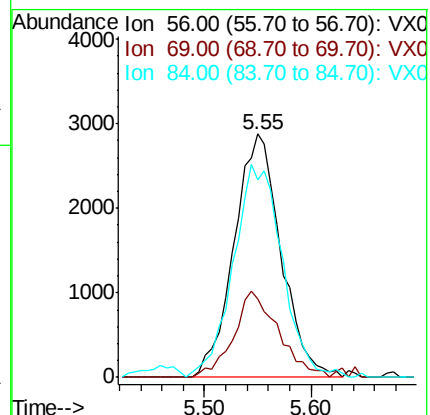
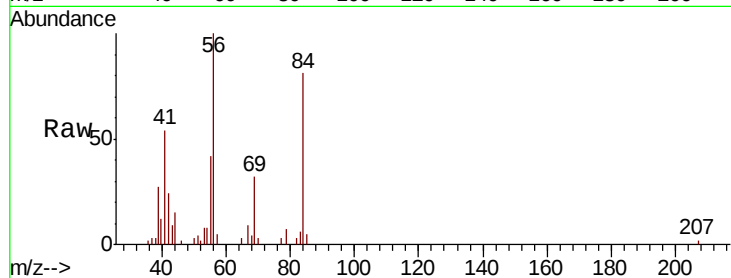
Tot Ion: 56 Resp: 8870

Ion Ratio Lower Upper

56 100

69 33.5 25.2 37.8

84 90.8 73.6 110.4



#30

1,1,1-Trichloroethane

Concen: 2.182 ug/L

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

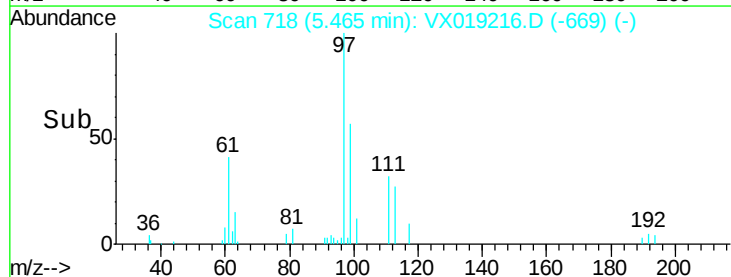
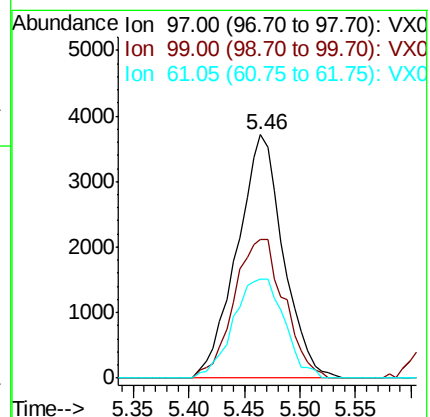
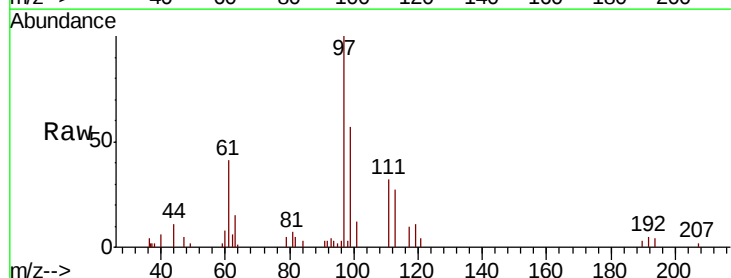
Tgt Ion: 97 Resp: 10715

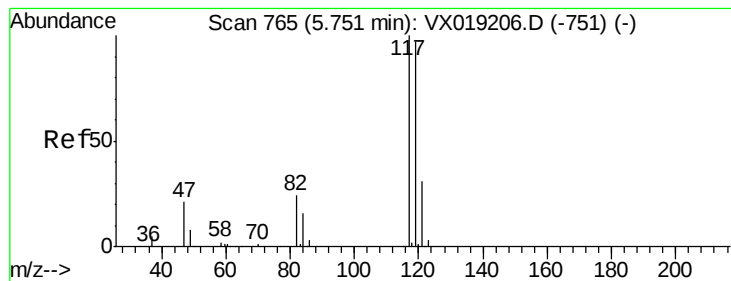
Ion Ratio Lower Upper

97 100

99 62.1 51.0 76.6

61 44.6 34.8 52.2





#31

Carbon tetrachloride

Concen: 2.029 ug/L

RT: 5.76 min Scan# 766

Delta R.T. 0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

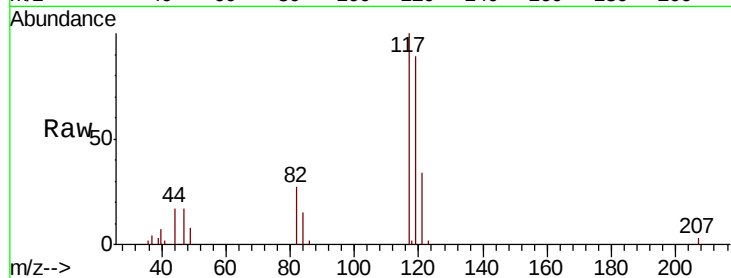
MDL-ME-SOIL-01

Tot Ion:117 Resp: 8558

Ion Ratio Lower Upper

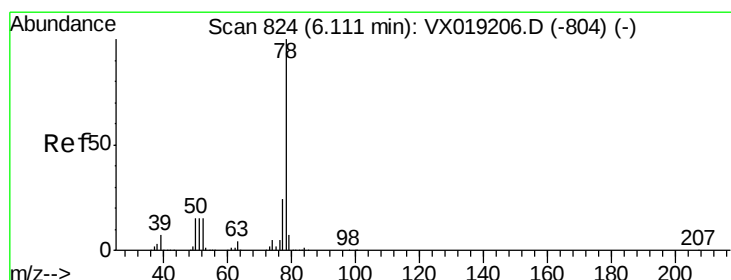
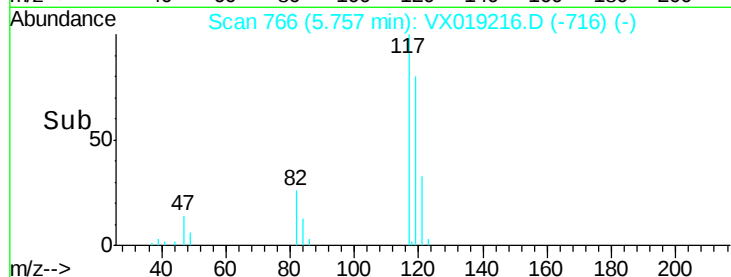
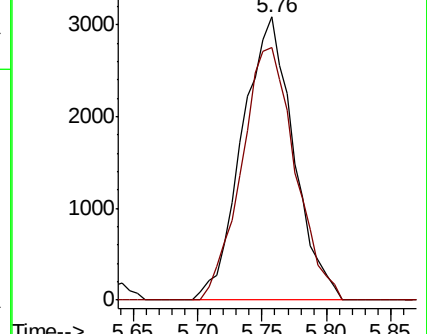
117 100

119 92.8 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.299 ug/L

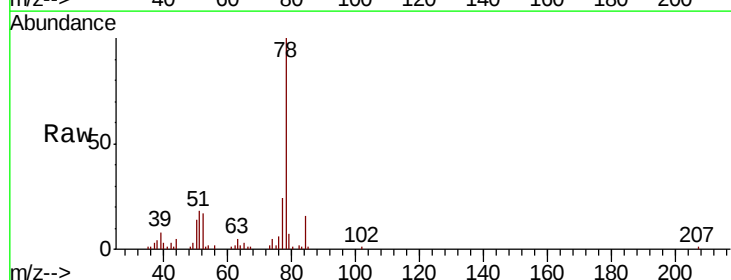
RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

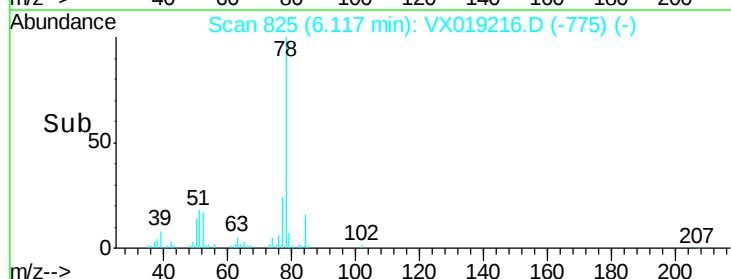
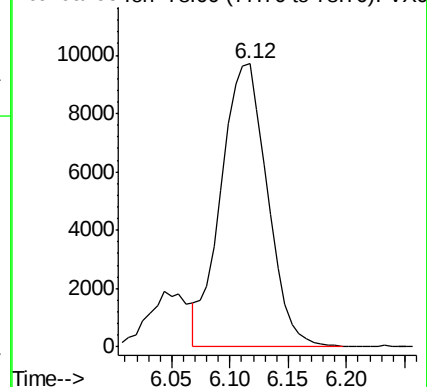
Lab File: VX019216.D

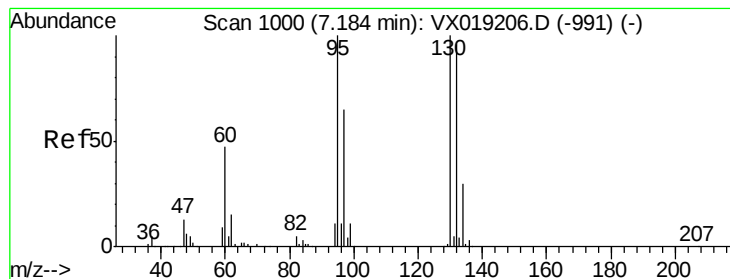
Acq: 02 Nov 2020 17:04

Tgt Ion: 78 Resp: 26888



Abundance Ion 78.00 (77.70 to 78.70): VX0





#34

Trichloroethene

Concen: 2.140 ug/L

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion: 95 Resp: 6832

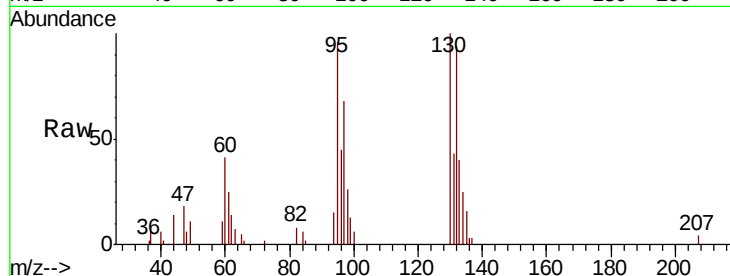
Ion Ratio Lower Upper

95 100

97 71.4 45.1 83.9

132 98.6 67.3 124.9

130 104.5 69.9 129.9



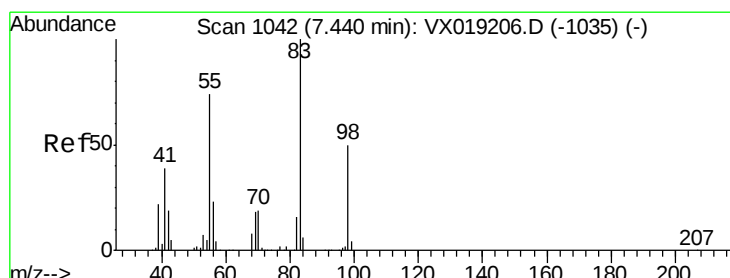
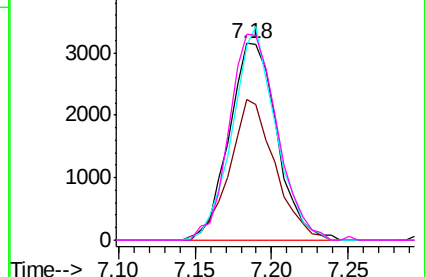
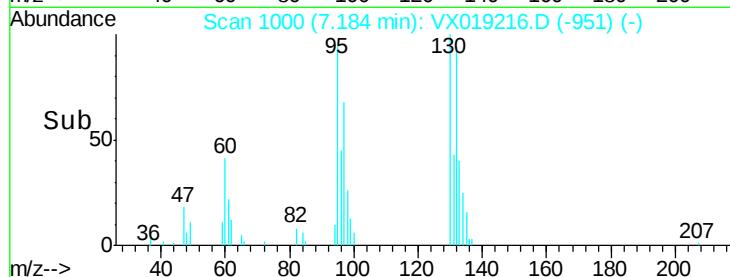
Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 97.00 (96.70 to 97.70): VX0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Time--> 7.10 7.15 7.20 7.25



#35

Methylcyclohexane

Concen: 1.865 ug/L

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

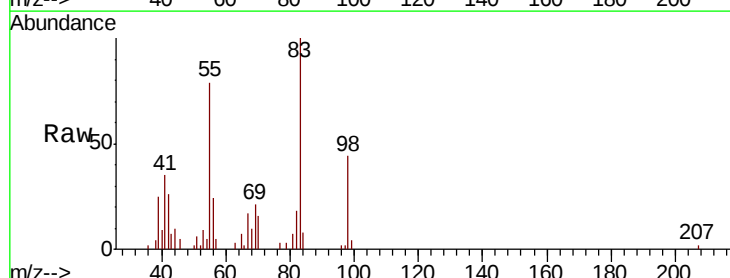
Tgt Ion: 83 Resp: 9422

Ion Ratio Lower Upper

83 100

55 70.2 58.6 87.8

98 48.8 39.0 58.6

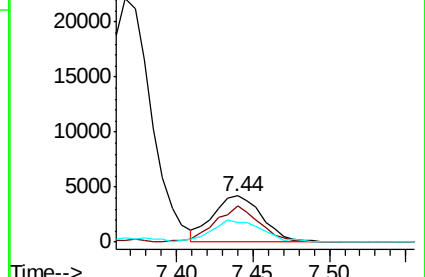
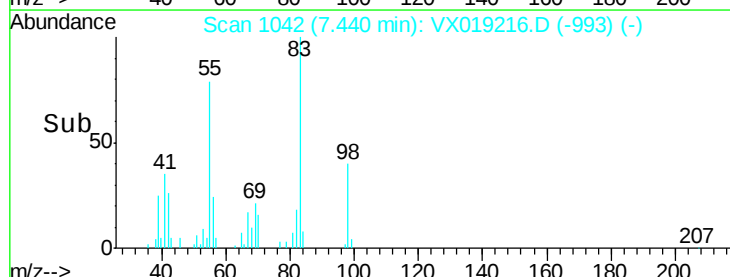


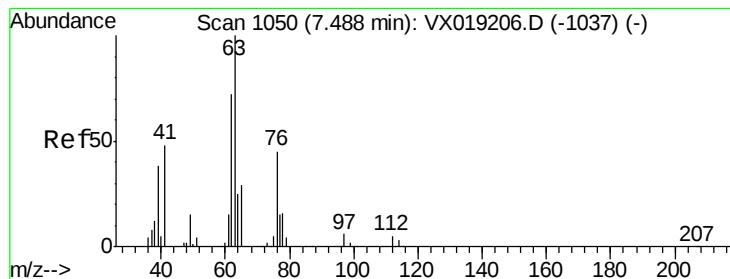
Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

Time--> 7.40 7.45 7.50





#37

1,2-Dichloropropane

Concen: 2.358 ug/L

RT: 7.49 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

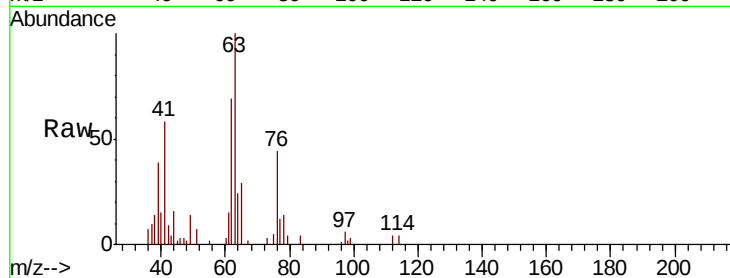
MDL-ME-SOIL-01

Tot Ion: 63 Resp: 6849

Ion Ratio Lower Upper

63 100

112 2.9 3.8 5.6#



Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 112.00 (111.70 to 112.70): V

8000

6000

4000

2000

0

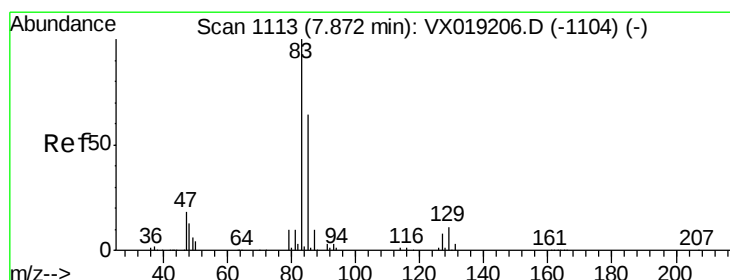
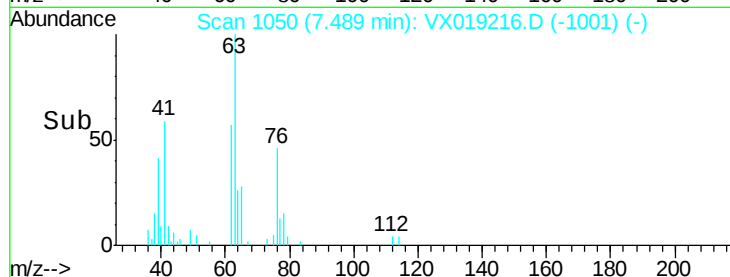
7.40

7.45

7.50

7.55

Time-->



#38

Bromodichloromethane

Concen: 2.191 ug/L

RT: 7.87 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

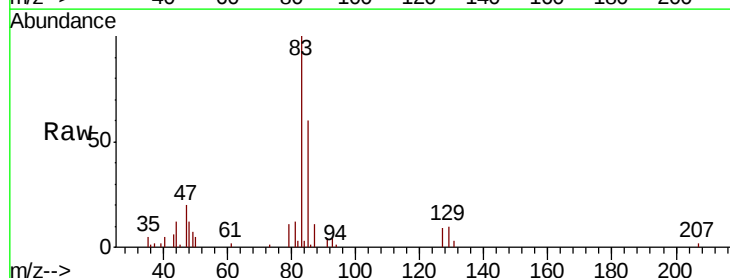
Tgt Ion: 83 Resp: 8850

Ion Ratio Lower Upper

83 100

85 59.7 44.6 82.8

127 8.5 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V

6000

4000

2000

0

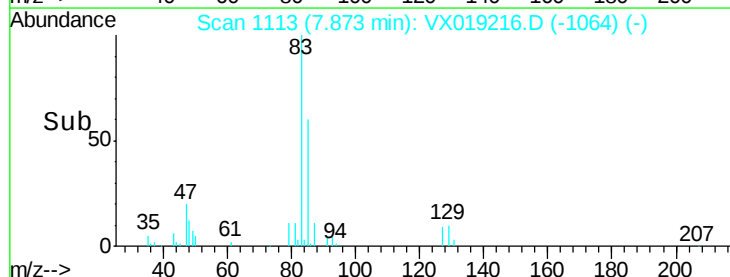
7.80

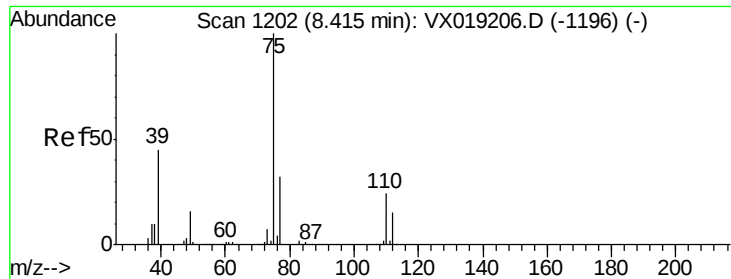
7.85

7.90

7.95

Time-->





#39

cis-1,3-Dichloropropene

Concen: 2.216 ug/L

RT: 8.42 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

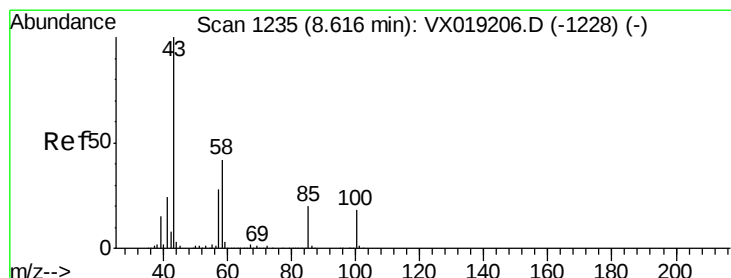
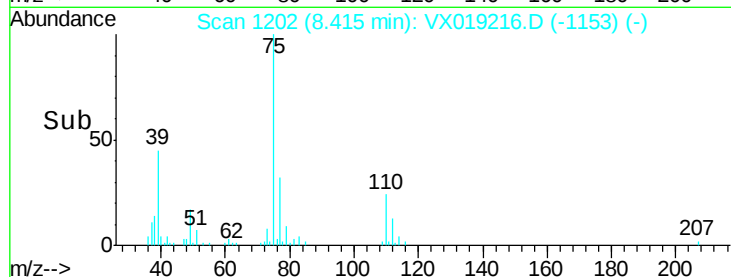
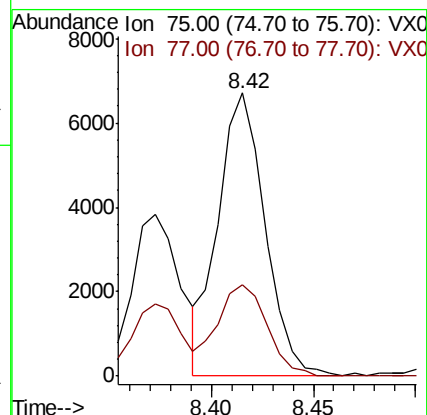
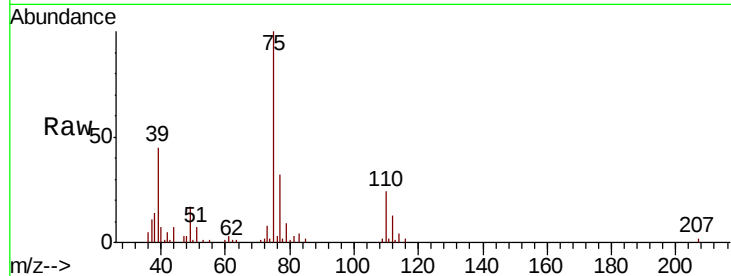
MDL-ME-SOIL-01

Tot Ion: 75 Resp: 10697

Ion Ratio Lower Upper

75 100

77 32.2 22.5 41.7



#40

4-Methyl-2-pentanone

Concen: 4.955 ug/L

RT: 8.62 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

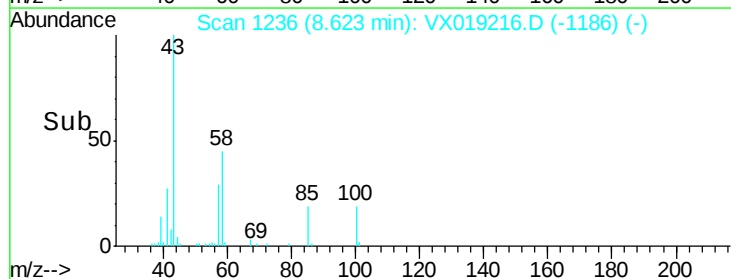
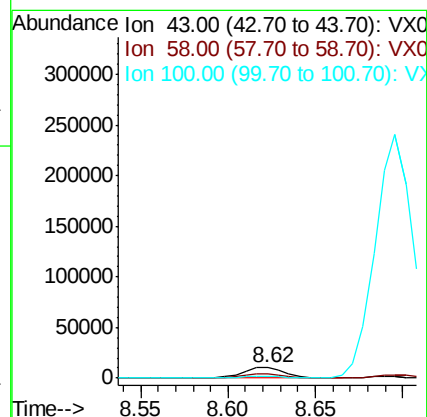
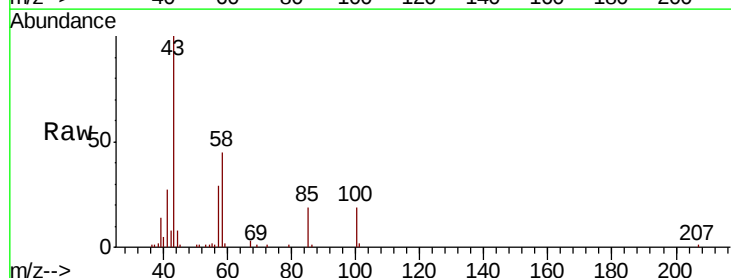
Tgt Ion: 43 Resp: 17602

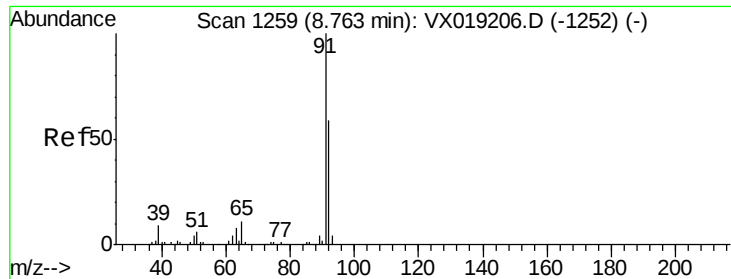
Ion Ratio Lower Upper

43 100

58 41.6 34.1 51.1

100 18.0 14.8 22.2





#42

Toluene

Concen: 2.870 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

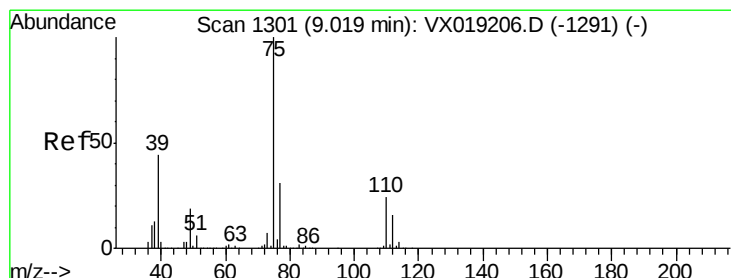
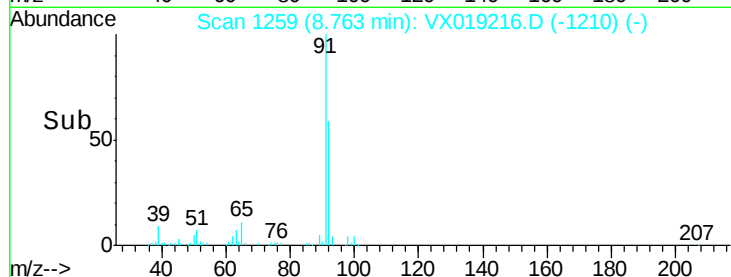
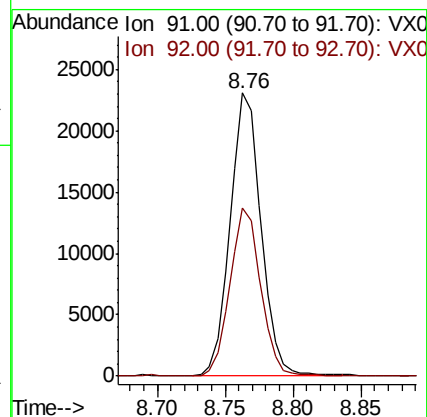
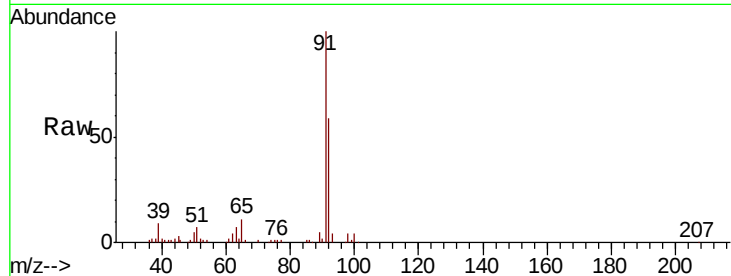
MDL-ME-SOIL-01

Tot Ion: 91 Resp: 36506

Ion Ratio Lower Upper

91 100

92 59.2 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 2.282 ug/L

RT: 9.02 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VX019216.D

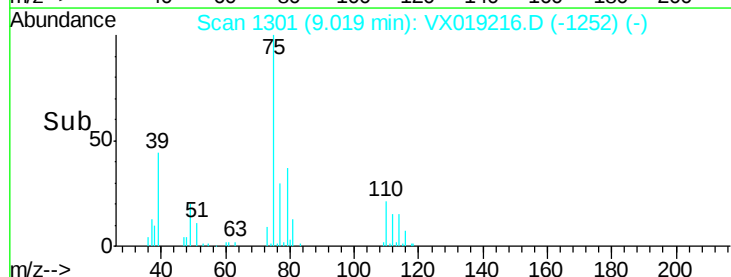
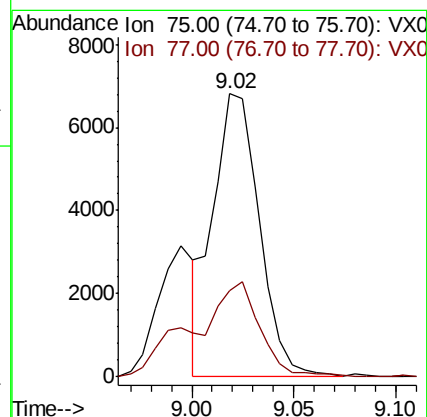
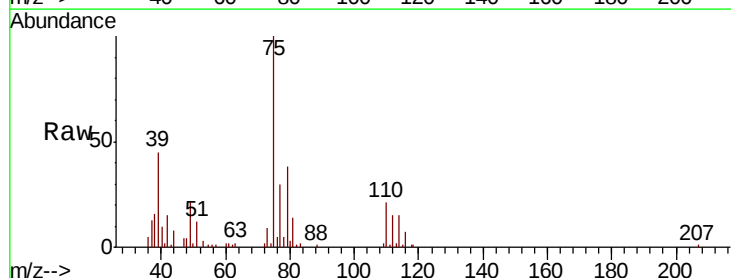
Acq: 02 Nov 2020 17:04

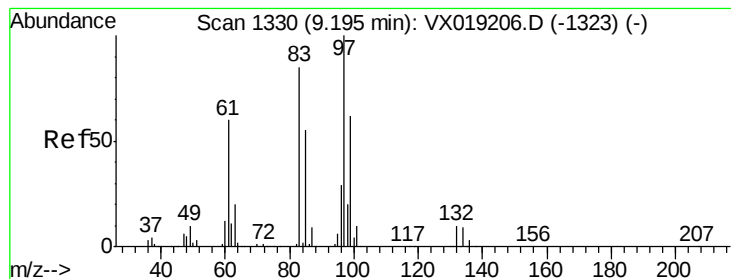
Tgt Ion: 75 Resp: 10729

Ion Ratio Lower Upper

75 100

77 30.5 21.8 40.6





#45

1,1,2-Trichloroethane

Concen: 2.399 ug/L

RT: 9.20 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion: 97 Resp: 6845

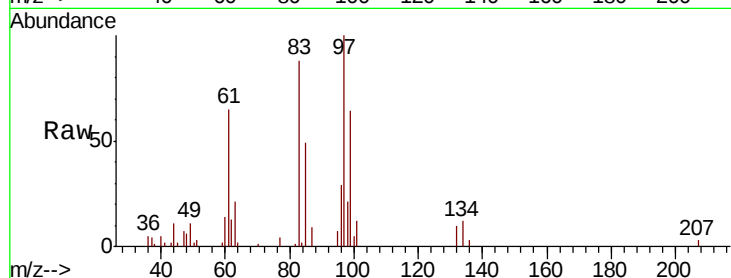
Ion Ratio Lower Upper

97 100

99 64.2 43.3 80.3

83 87.9 59.4 110.4

85 49.0 38.7 71.9

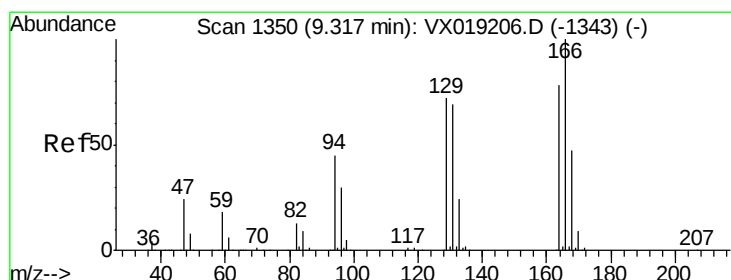
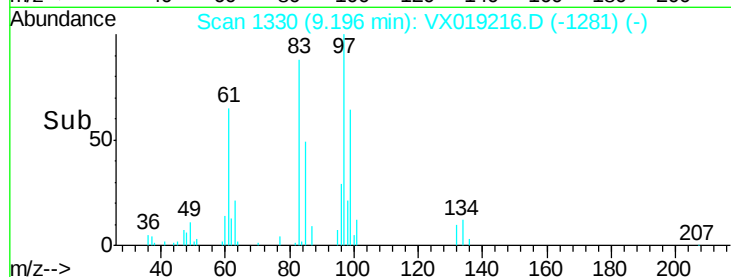
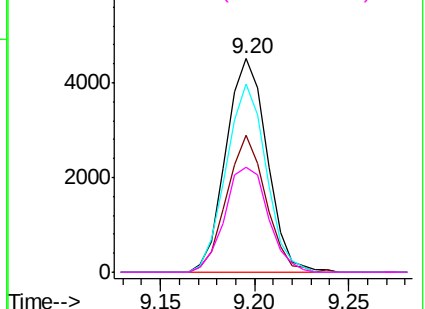


Abundance Ion 97.00 (96.70 to 97.70): VX0

Ion 99.00 (98.70 to 99.70): VX0

Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#46

Tetrachloroethene

Concen: 2.045 ug/L

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Tgt Ion: 164 Resp: 4924

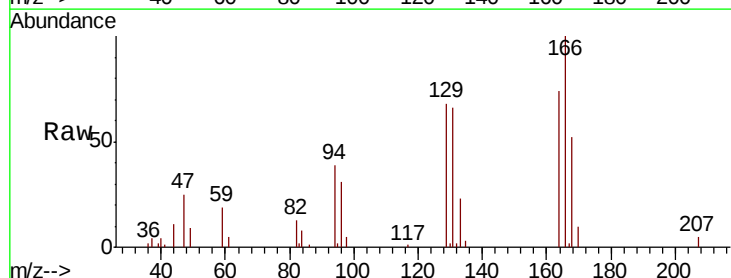
Ion Ratio Lower Upper

164 100

129 92.1 65.2 121.2

131 89.2 62.5 116.1

166 134.8 90.2 167.6

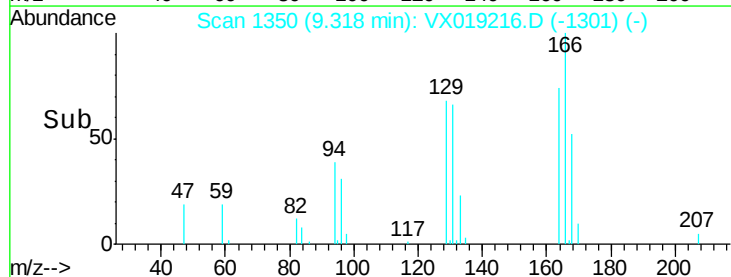
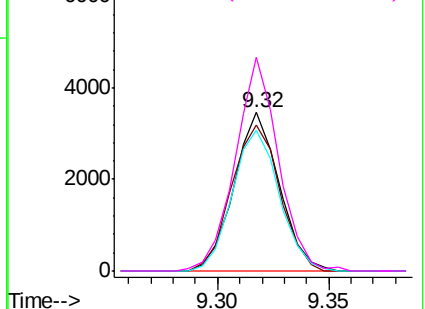


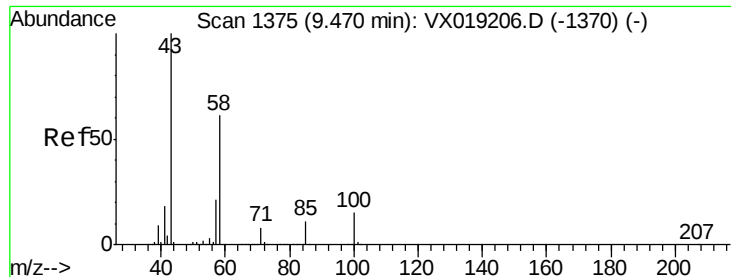
Abundance Ion 164.00 (163.70 to 164.70): V

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

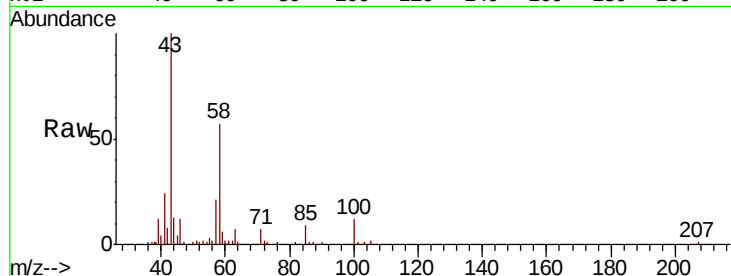




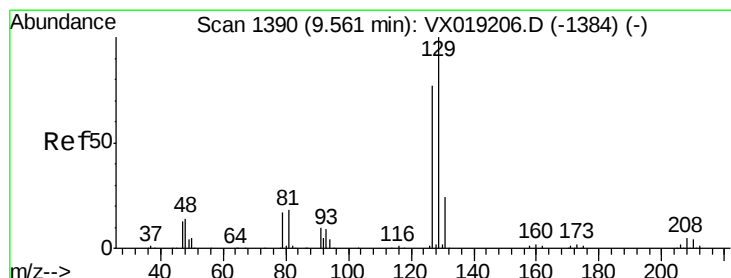
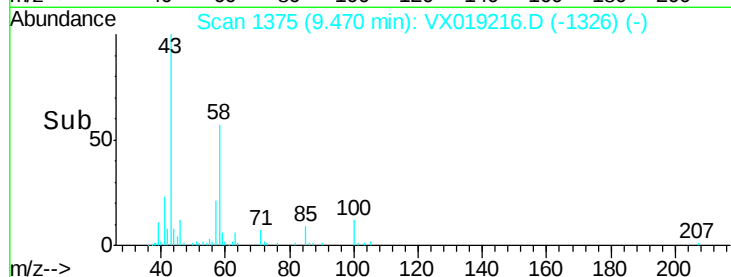
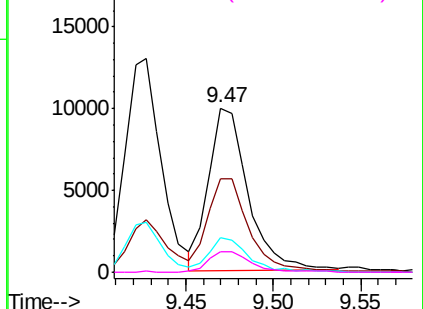
#48
2-Hexanone
Concen: 5.600 ug/L
RT: 9.47 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 15676
Ion Ratio Lower Upper
43 100
58 59.8 48.2 72.2
57 21.7 17.1 25.7
100 13.3 11.8 17.8

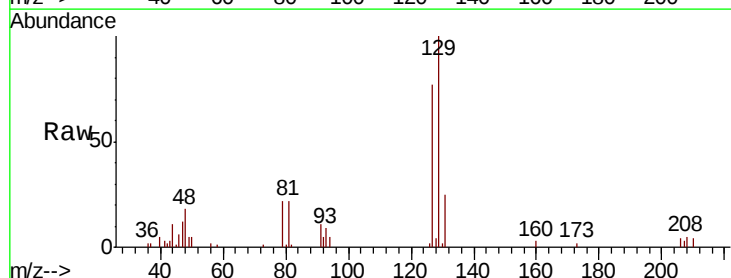


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 57.00 (56.70 to 57.70): VX0
Ion 100.00 (99.70 to 100.70): V

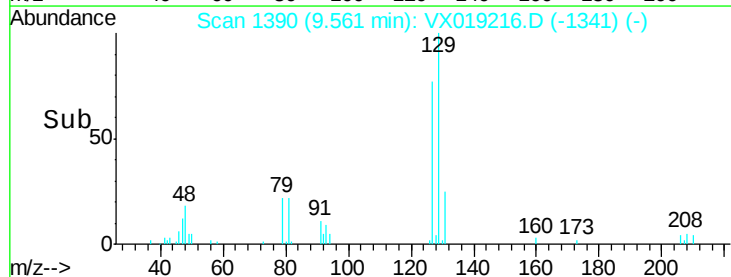
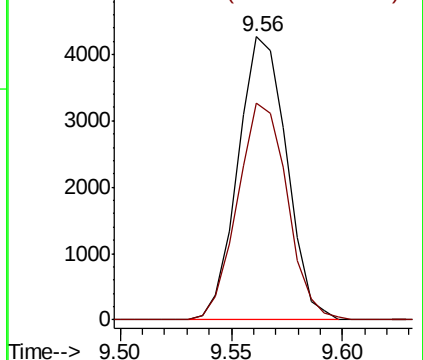


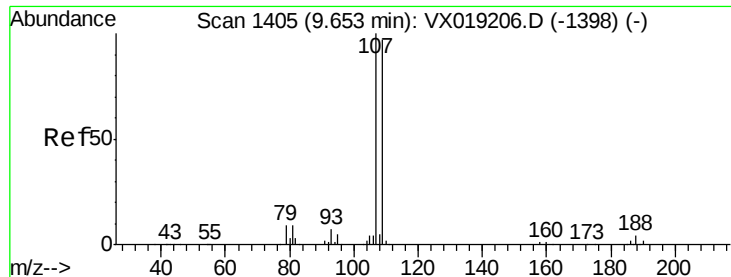
#49
Dibromochloromethane
Concen: 2.081 ug/L
RT: 9.56 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Tgt Ion: 129 Resp: 6495
Ion Ratio Lower Upper
129 100
127 76.7 54.0 100.2



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

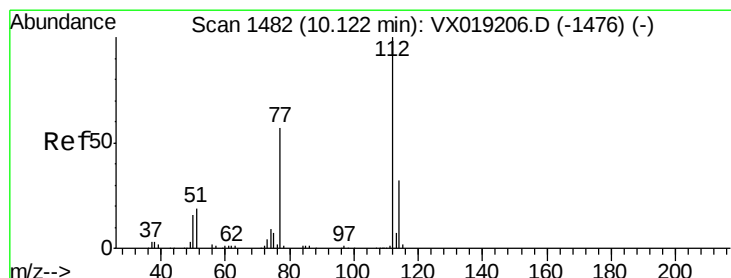
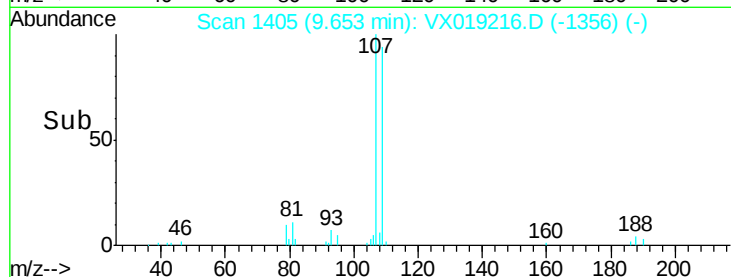
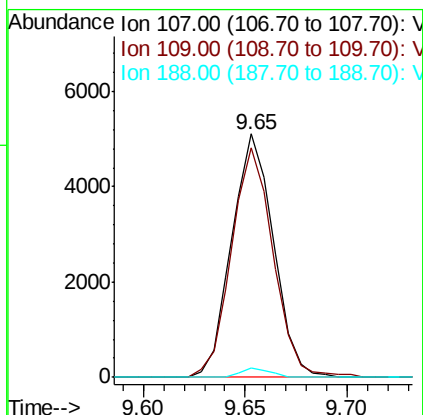
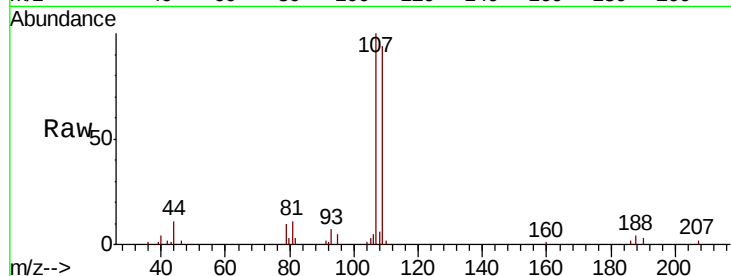




#50
1,2-Dibromoethane
Concen: 2.434 ug/L
RT: 9.65 min Scan# 1405
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

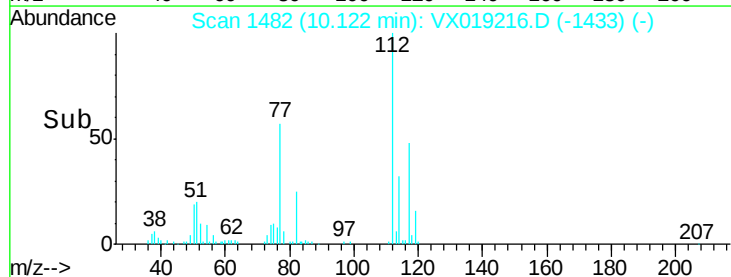
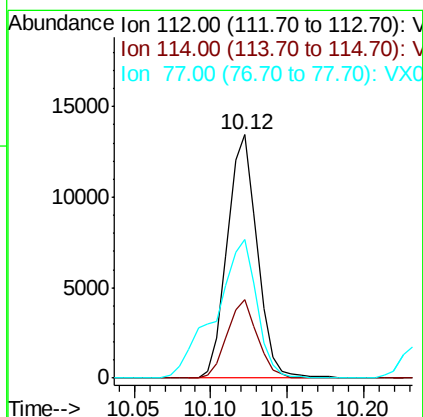
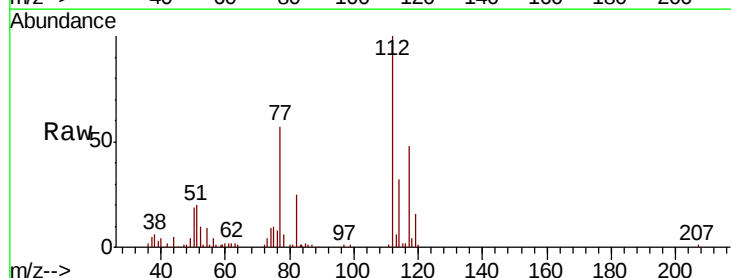
Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-01

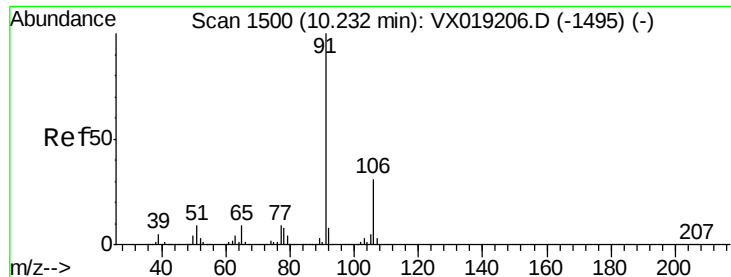
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.1	68.1	126.5
188	4.1	3.0	4.4



#51
Chlorobenzene
Concen: 2.309 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.2	41.2
77	57.0	46.2	69.4





#52

Ethylbenzene

Concen: 2.141 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

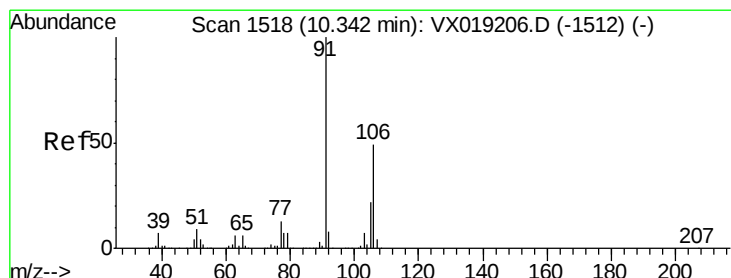
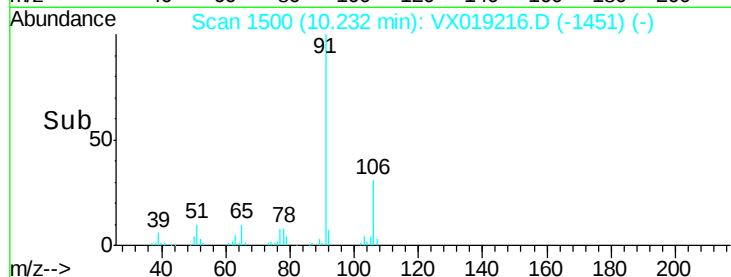
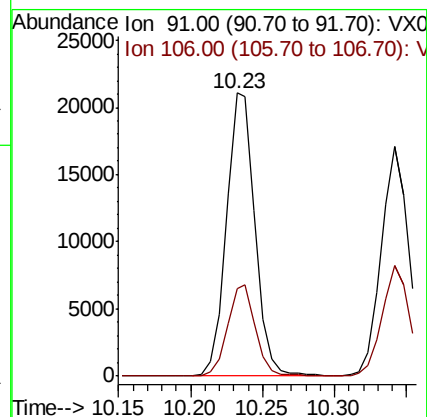
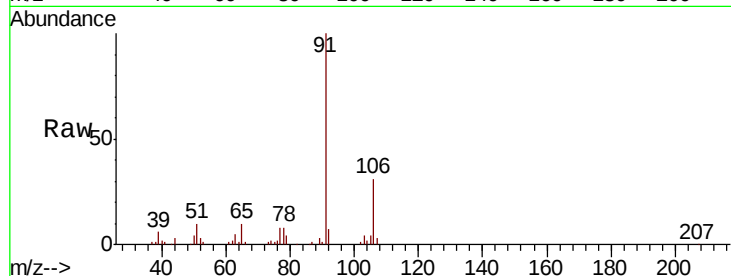
MDL-ME-SOIL-01

Tot Ion: 91 Resp: 29440

Ion Ratio Lower Upper

91 100

106 31.1 21.5 39.9



#53

m,p-Xylene

Concen: 2.099 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX019216.D

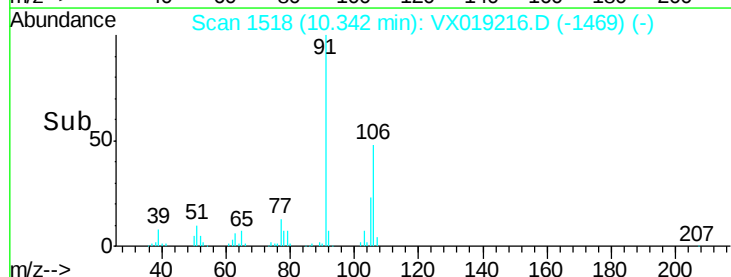
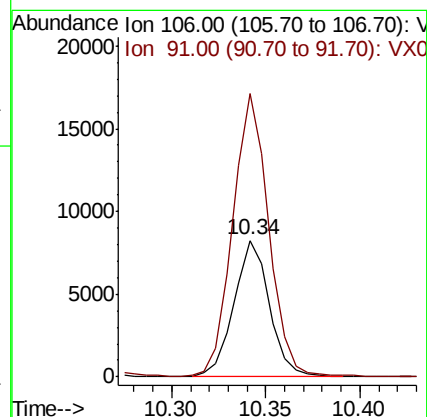
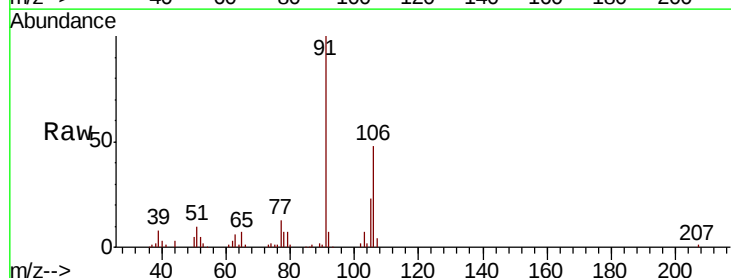
Acq: 02 Nov 2020 17:04

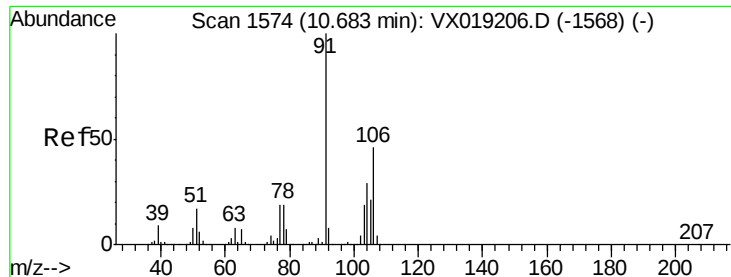
Tgt Ion: 106 Resp: 10842

Ion Ratio Lower Upper

106 100

91 206.9 144.2 267.8





#54

o-Xylene

Concen: 2.116 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

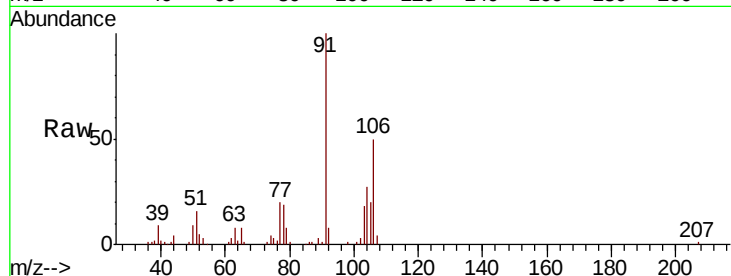
MDL-ME-SOIL-01

Tot Ion:106 Resp: 10584

Ion Ratio Lower Upper

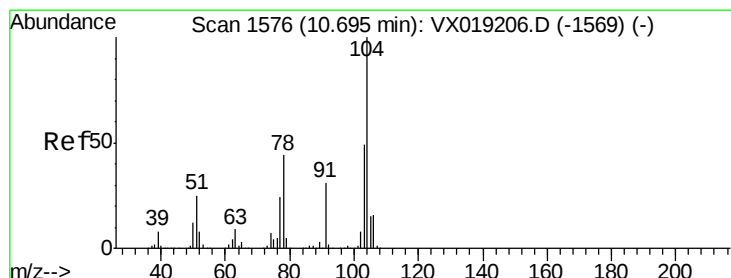
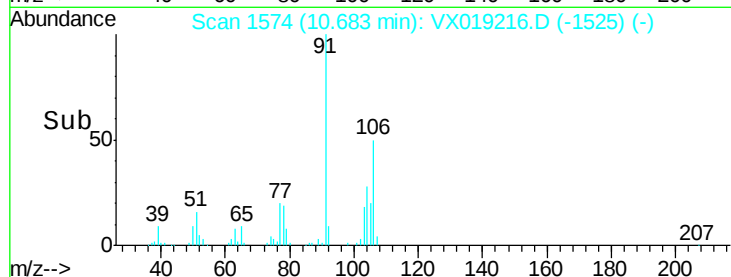
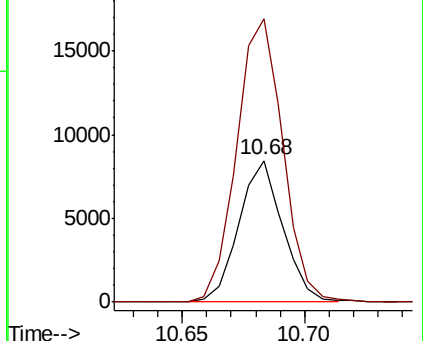
106 100

91 200.0 153.3 284.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#55

Styrene

Concen: 2.011 ug/L

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX019216.D

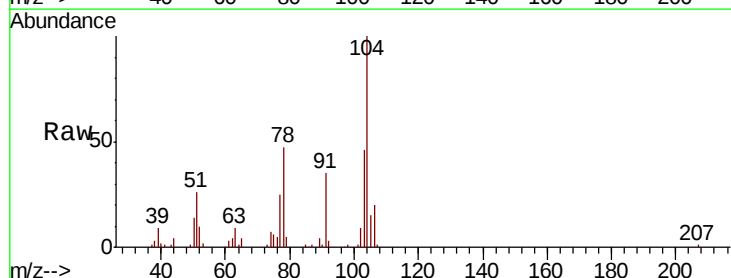
Acq: 02 Nov 2020 17:04

Tgt Ion:104 Resp: 16973

Ion Ratio Lower Upper

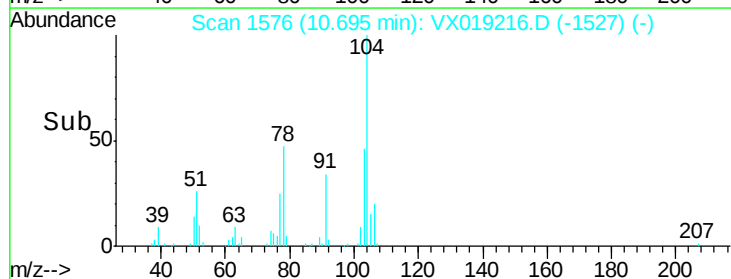
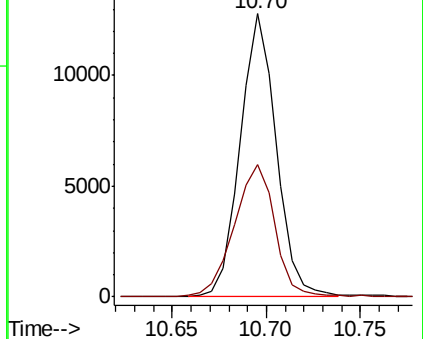
104 100

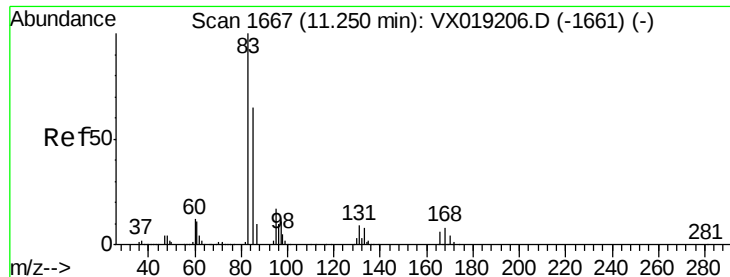
78 46.7 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.565 ug/L

RT: 11.25 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

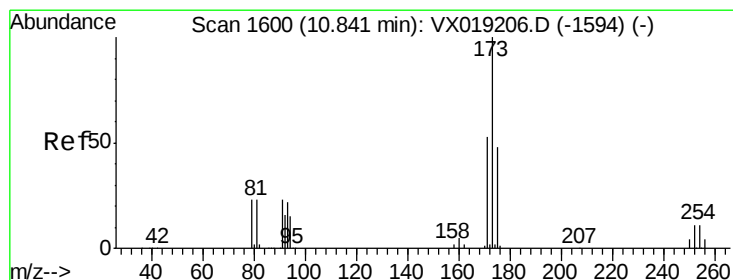
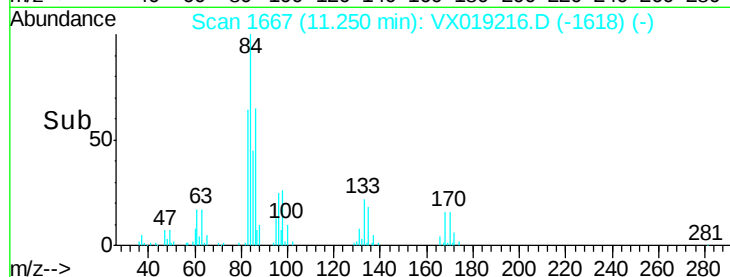
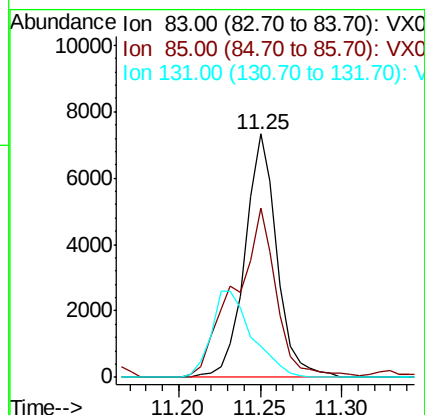
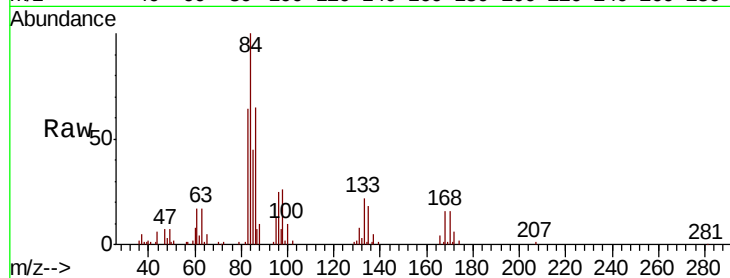
Tot Ion: 83 Resp: 10032

Ion Ratio Lower Upper

83 100

85 69.8 45.9 85.3

131 12.9 7.7 11.5#



#59

Bromoform

Concen: 2.157 ug/L

RT: 10.84 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

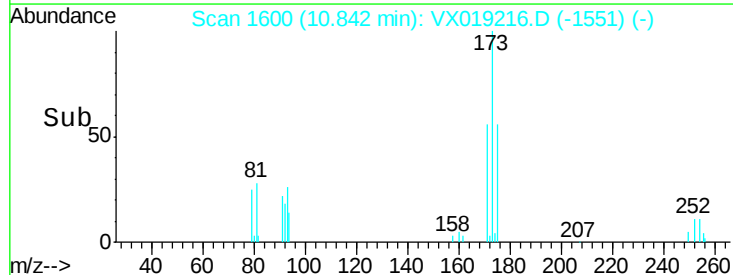
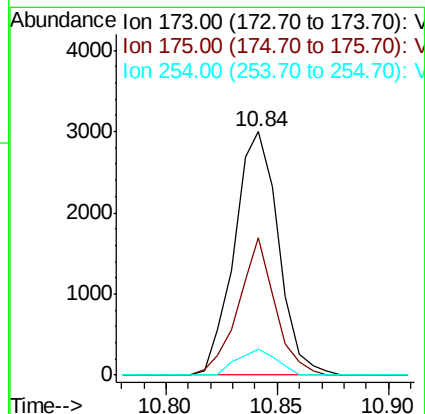
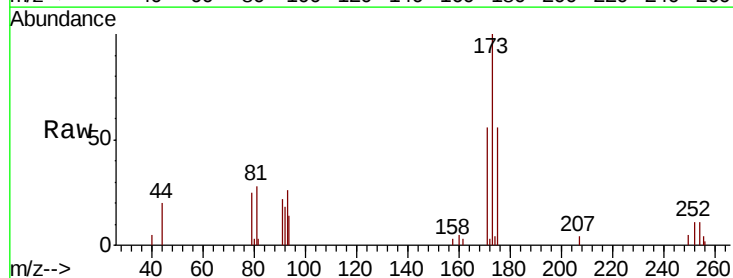
Tgt Ion: 173 Resp: 4139

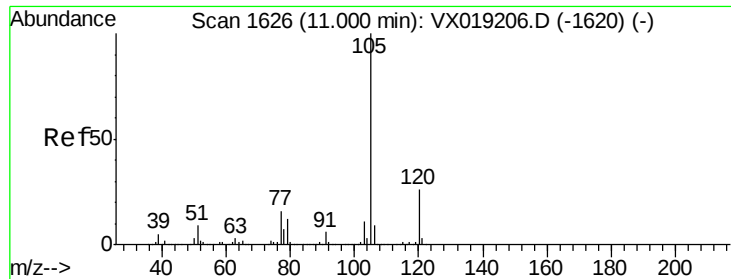
Ion Ratio Lower Upper

173 100

175 47.3 39.7 59.5

254 9.4 8.2 12.4





#60

Isopropylbenzene

Concen: 2.218 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

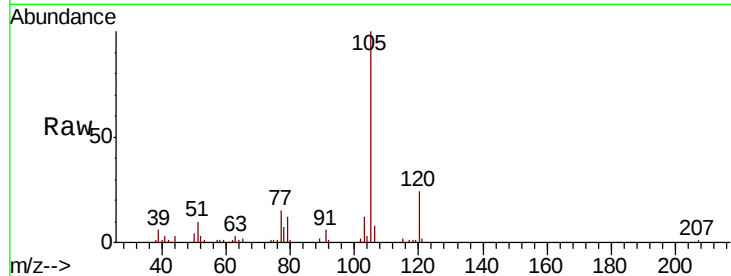
Tot Ion:105 Resp: 26661

Ion Ratio Lower Upper

105 100

120 25.0 21.1 31.7

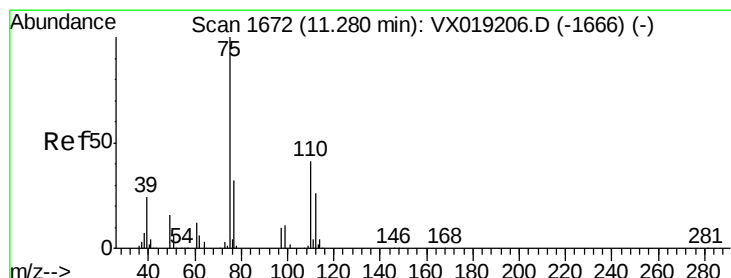
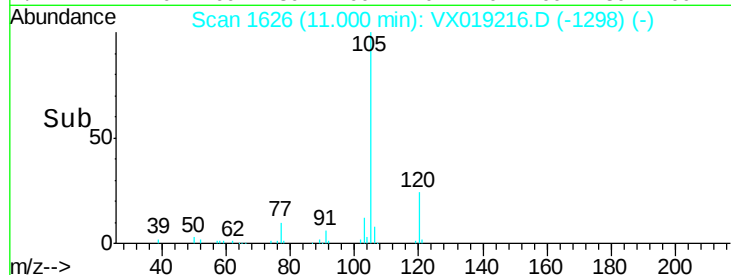
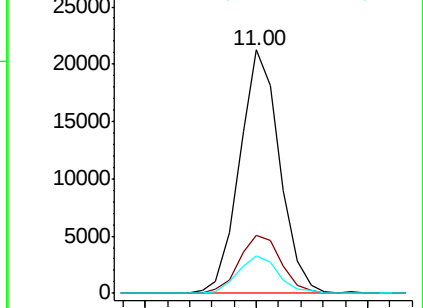
77 15.8 12.6 19.0



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: 2.638 ug/L

RT: 11.28 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

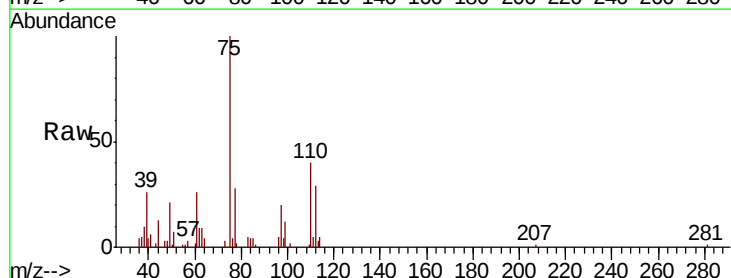
Tgt Ion: 75 Resp: 7959

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.0

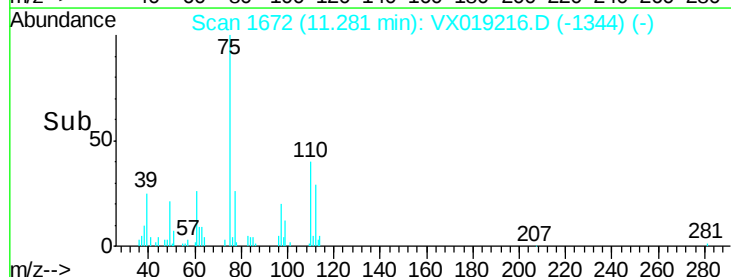
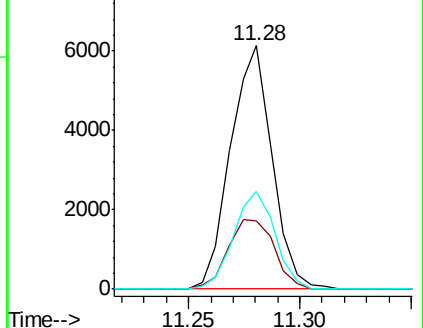
110 40.0 32.2 48.2

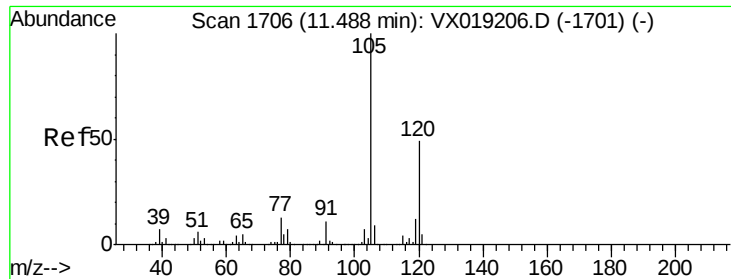


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 2.137 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

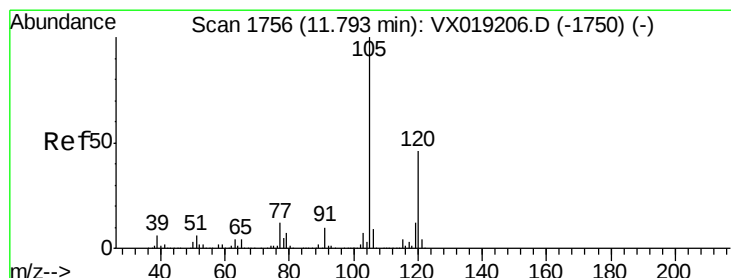
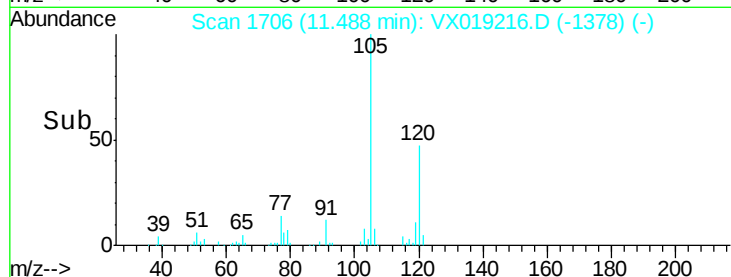
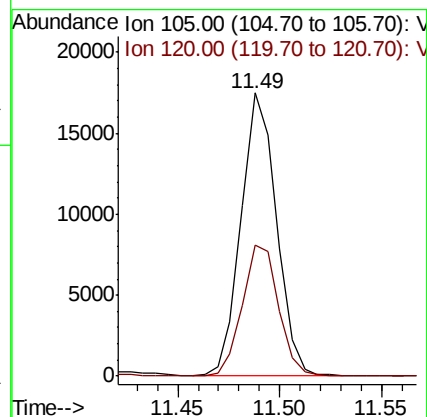
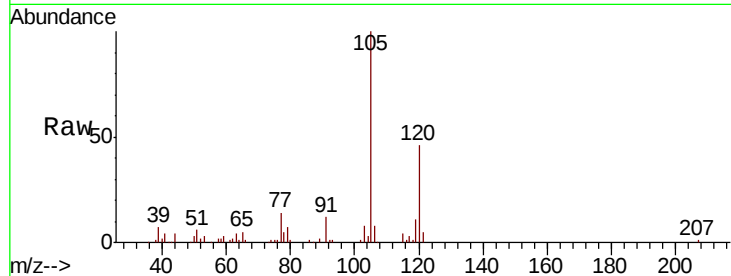
MDL-ME-SOIL-01

Tot Ion:105 Resp: 21132

Ion Ratio Lower Upper

105 100

120 47.2 38.8 58.2



#63

1,2,4-Trimethylbenzene

Concen: 2.315 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX019216.D

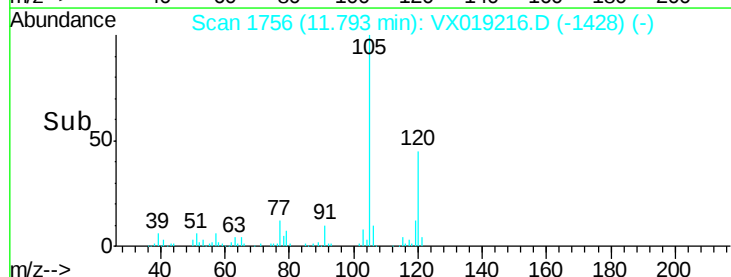
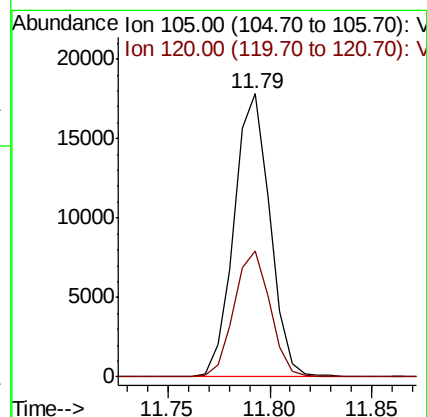
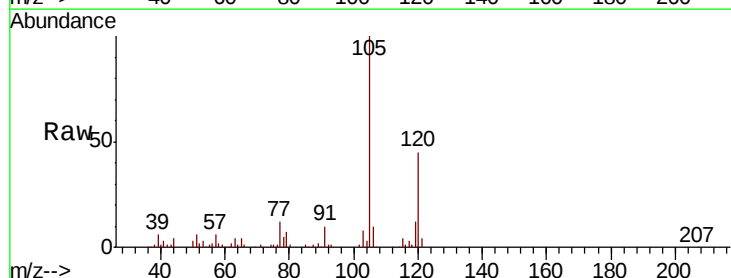
Acq: 02 Nov 2020 17:04

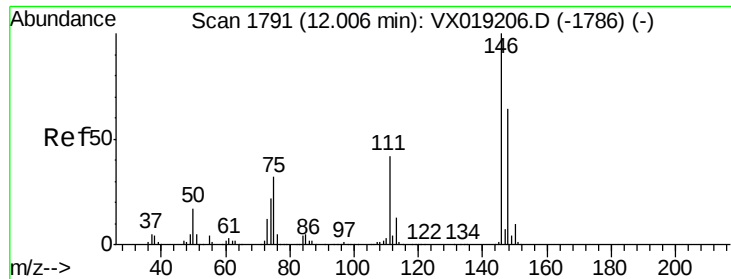
Tgt Ion:105 Resp: 21649

Ion Ratio Lower Upper

105 100

120 44.4 36.0 54.0





#64

1,3-Dichlorobenzene

Concen: 2.309 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-01

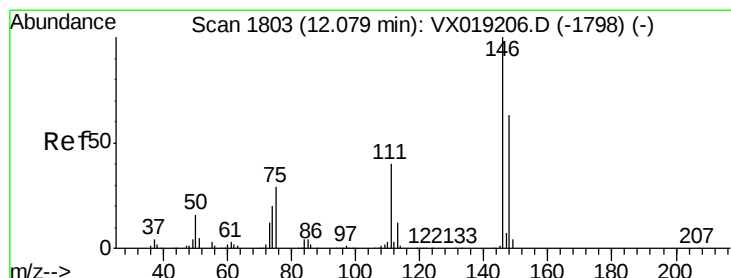
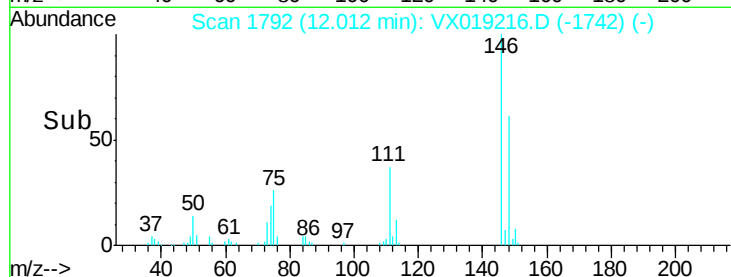
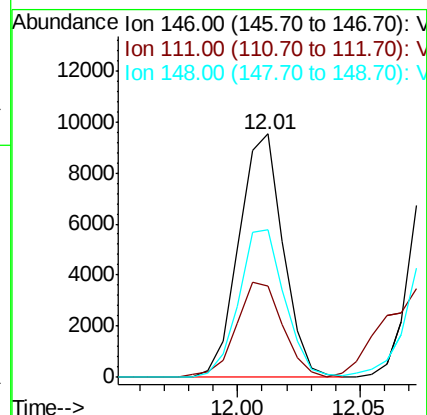
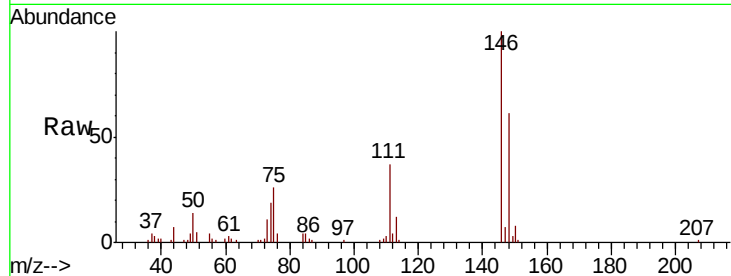
Tot Ion:146 Resp: 11982

Ion Ratio Lower Upper

146 100

111 37.3 29.7 55.1

148 60.7 44.5 82.7



#65

1,4-Dichlorobenzene

Concen: 2.376 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX019216.D

Acq: 02 Nov 2020 17:04

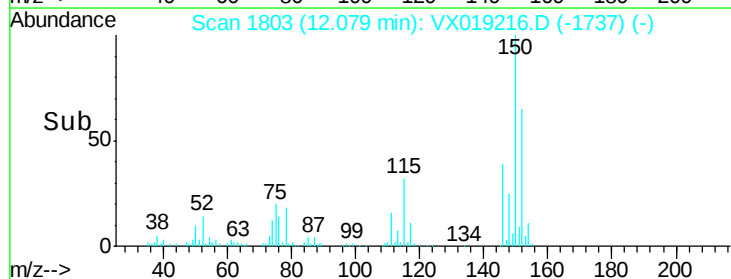
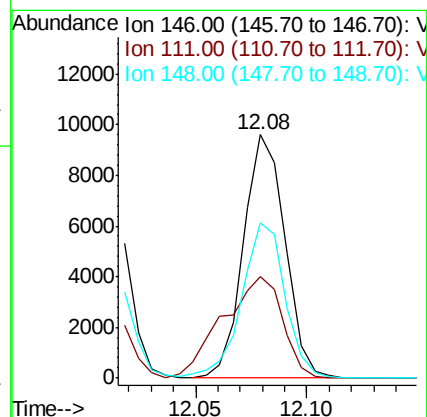
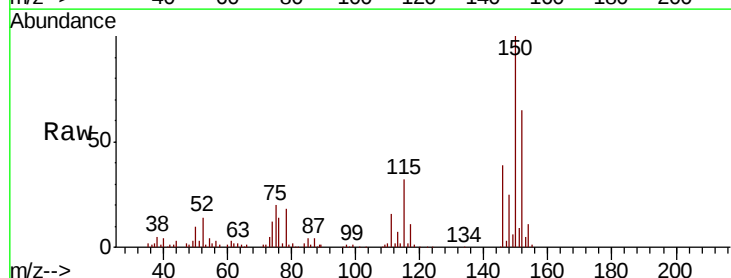
Tgt Ion:146 Resp: 12514

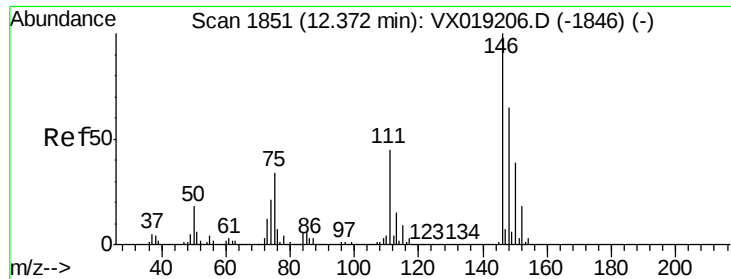
Ion Ratio Lower Upper

146 100

111 41.5 28.1 52.3

148 63.7 43.8 81.4

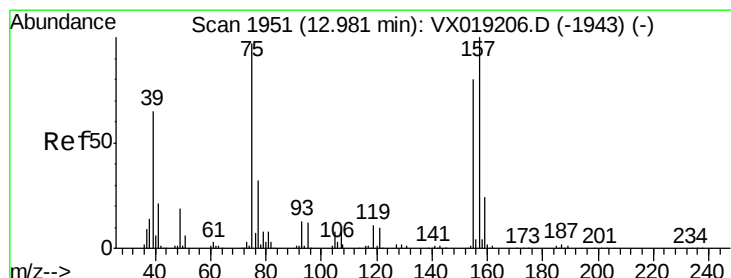
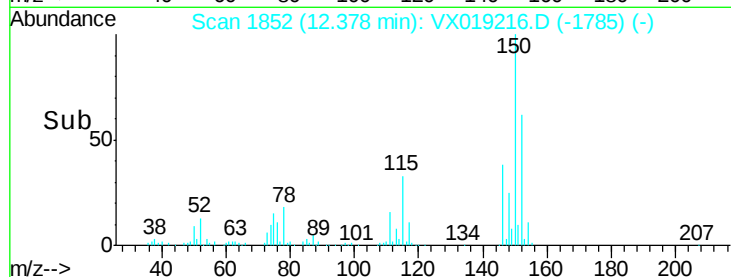
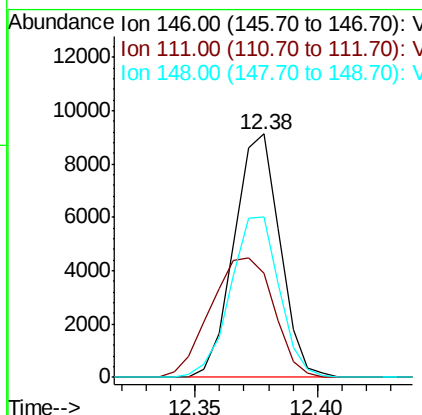
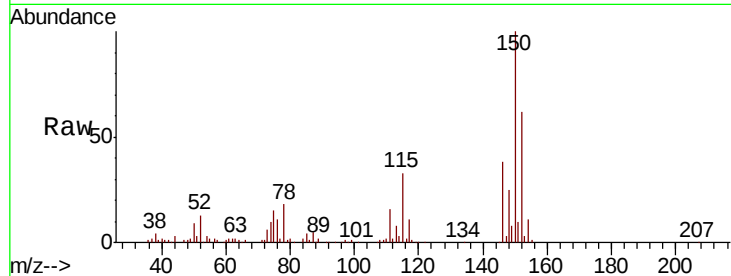




#67
 1,2-Dichlorobenzene
 Concen: 2.366 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.01 min
 Lab File: VX019216.D
 Acq: 02 Nov 2020 17:04

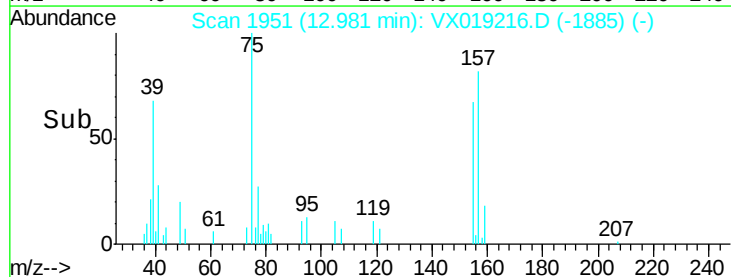
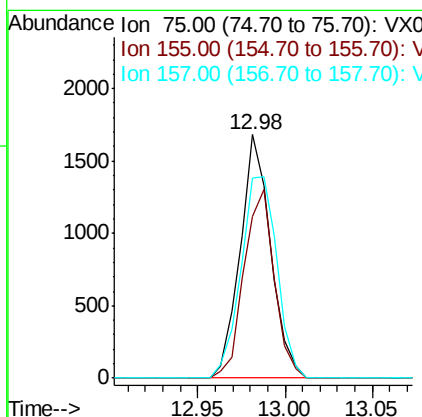
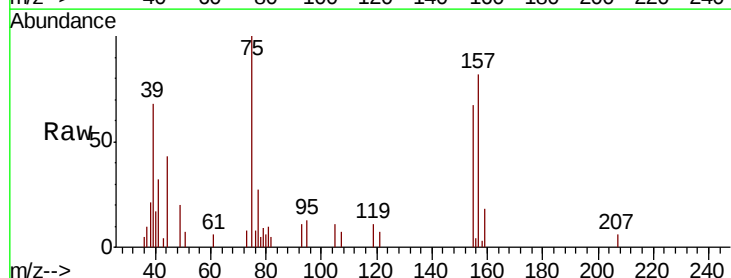
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-01

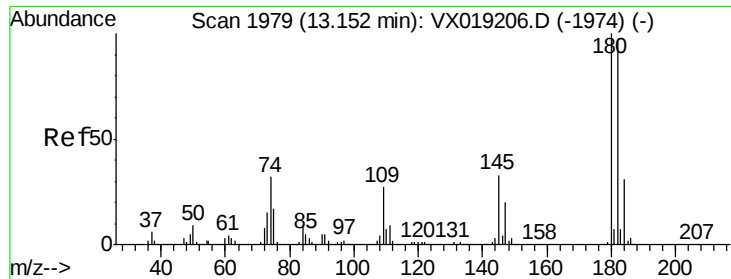
Tot Ion:146 Resp: 11891
 Ion Ratio Lower Upper
 146 100
 111 42.8 35.9 53.9
 148 66.0 52.2 78.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.474 ug/L
 RT: 12.98 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VX019216.D
 Acq: 02 Nov 2020 17:04

Tgt Ion: 75 Resp: 2033
 Ion Ratio Lower Upper
 75 100
 155 66.5 65.8 98.8
 157 82.3 82.6 123.8#

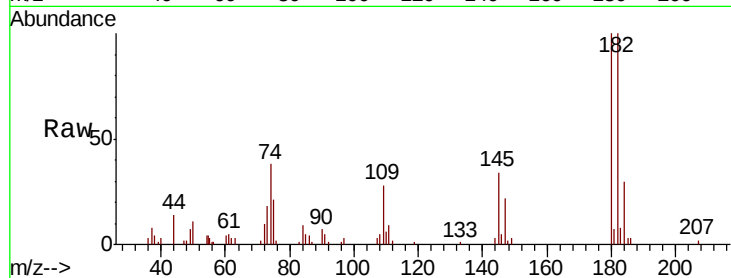




#69
 1,3,5-Trichlorobenzene
 Concen: 2.175 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VX019216.D
 Acq: 02 Nov 2020 17:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	78.8	118.2
184	28.9	25.2	37.8
145	30.6	25.8	38.6

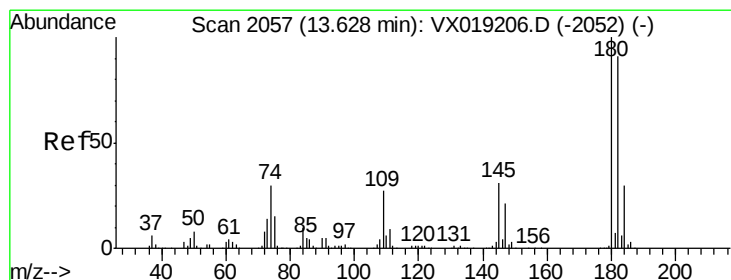
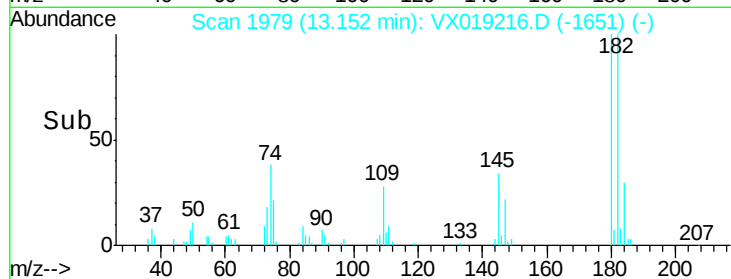
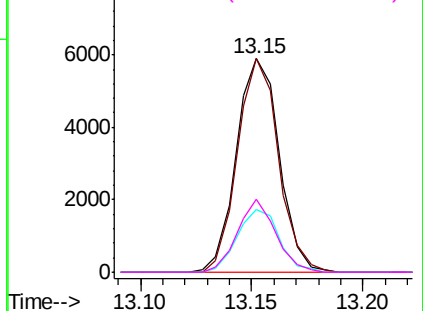


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

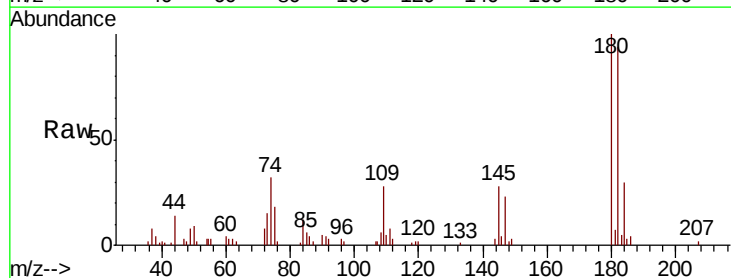
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 2.204 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX019216.D
 Acq: 02 Nov 2020 17:04

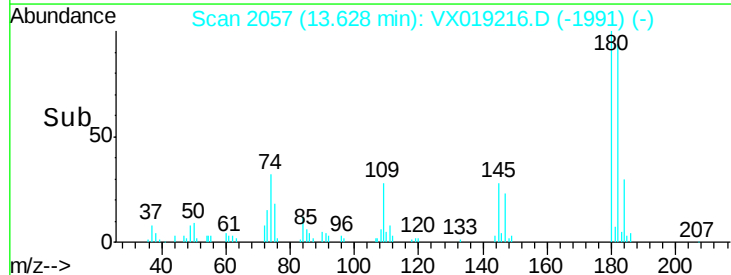
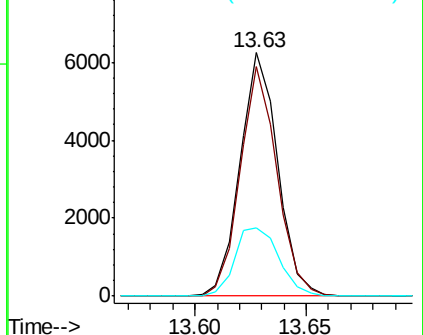
Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.9	74.6	111.8
145	32.5	25.4	38.0

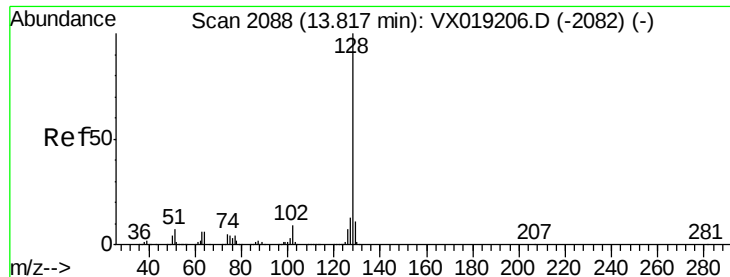


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

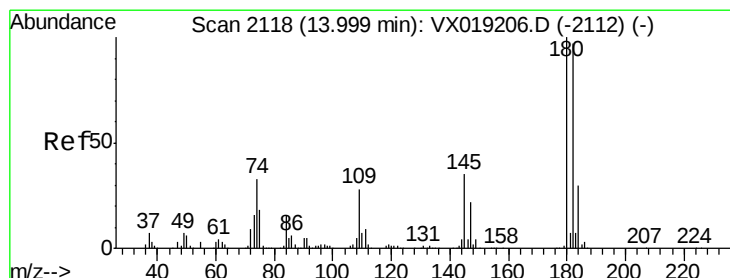
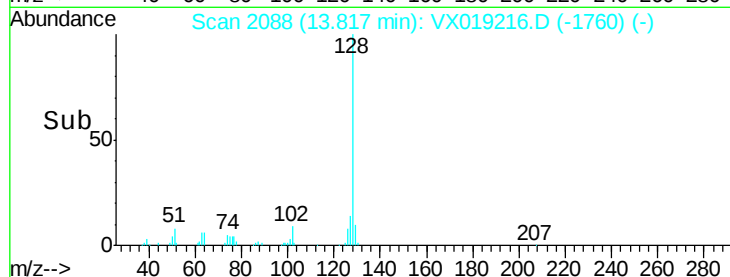
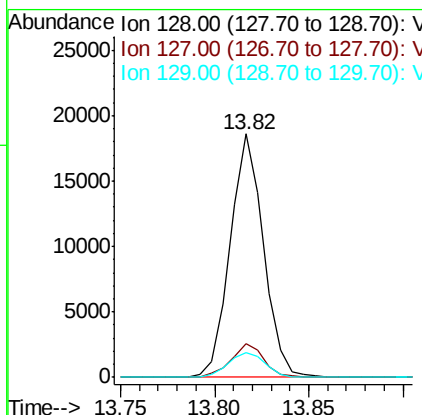
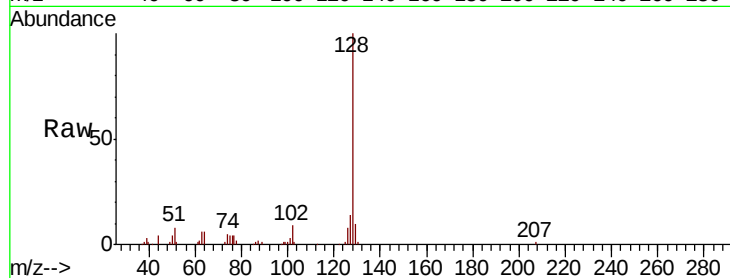




#71
Naphthalene
Concen: 2.109 ug/L
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion:128 Resp: 22847
Ion Ratio Lower Upper
128 100
127 13.5 10.1 15.1
129 11.5 8.5 12.7



#72
1,2,3-Trichlorobenzene
Concen: 2.253 ug/L
RT: 14.00 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VX019216.D
Acq: 02 Nov 2020 17:04

Tgt Ion:180 Resp: 7384
Ion Ratio Lower Upper
180 100
182 91.0 75.3 112.9
145 31.6 27.1 40.7

