

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061858.D
 Acq On : 5 Mar 2019 21:24
 Operator : VA/AP
 Sample : K1560-032.5MDL
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Quant Time: Mar 06 06:32:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	309832	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	481643	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	392934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	231606	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	121612	53.90	ug/l	-0.01
Spiked Amount			Recovery	=	107.80%	
35) Dibromofluoromethane	4.11	113	170288	50.66	ug/l	-0.01
Spiked Amount			Recovery	=	101.32%	
50) Toluene-d8	7.55	98	473997	47.44	ug/l	-0.01
Spiked Amount			Recovery	=	94.88%	
62) 4-Bromofluorobenzene	11.41	95	194936	49.81	ug/l	-0.01
Spiked Amount			Recovery	=	99.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	9596	2.523	ug/l	93
3) Chloromethane	1.10	50	9891	2.683	ug/l #	83
4) Vinyl Chloride	1.13	62	8261	2.361	ug/l #	78
5) Bromomethane	1.34	94	7149	2.998	ug/l #	77
6) Chloroethane	1.39	64	4159	2.500	ug/l #	48
7) Trichlorofluoromethane	1.48	101	11279	2.639	ug/l	91
8) Diethyl Ether	1.63	74	2856	2.938	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.82	101	8659	2.983	ug/l #	82
10) Methyl Iodide	1.91	142	11726	2.123	ug/l	97
11) Tert butyl alcohol	2.57	59	1534	11.978	ug/l #	78
12) 1,1-Dichloroethene	1.79	96	7846	2.961	ug/l #	80
13) Acrolein	2.01	56	2385	14.697	ug/l #	73
14) Allyl chloride	2.10	41	7511	2.573	ug/l #	79
15) Acrylonitrile	2.95	53	6355	15.584	ug/l	86
16) Acetone	2.25	43	6500	13.753	ug/l	100
17) Carbon Disulfide	1.83	76	16042	1.945	ug/l #	90
18) Methyl Acetate	2.34	43	3361	Below Cal	#	80
19) Methyl tert-butyl Ether	2.43	73	11263	2.513	ug/l #	91
20) Methylene Chloride	2.18	84	4445	Below Cal	#	88
21) trans-1,2-Dichloroethene	2.31	96	7251	2.907	ug/l #	90
22) Diisopropyl ether	2.80	45	21754	2.865	ug/l #	90
23) Vinyl Acetate	3.19	43	42157	12.427	ug/l	98
24) 1,1-Dichloroethane	2.88	63	12689	2.796	ug/l #	94
25) 2-Butanone	4.34	43	13919	14.478	ug/l #	86
26) 2,2-Dichloropropane	3.60	77	4562	2.252	ug/l #	71
27) cis-1,2-Dichloroethene	3.48	96	8734	2.528	ug/l	82
28) Bromochloromethane	3.71	49	4615	2.333	ug/l #	73
29) Tetrahydrofuran	4.09	42	6299	15.192	ug/l #	83
30) Chloroform	3.85	83	14109	2.721	ug/l	85
31) Cyclohexane	3.68	56	6221	1.309	ug/l	91
32) 1,1,1-Trichloroethane	4.09	97	8516	2.665	ug/l #	85
36) 1,1-Dichloropropene	4.28	75	13513	2.970	ug/l	94
37) Ethyl Acetate	4.11	43	6500	3.404	ug/l #	92
38) Carbon Tetrachloride	3.98	117	8978	2.788	ug/l #	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	12765	2.375	ug/l	95
40) Benzene	4.63	78	29379	2.470	ug/l	95
41) Methacrylonitrile	4.75	41	2452	2.344	ug/l #	83
42) 1,2-Dichloroethane	4.94	62	8436	2.846	ug/l	100
43) Isopropyl Acetate	6.97	43	5832	2.478	ug/l	100
44) Trichloroethene	5.51	130	9488	2.567	ug/l	67
45) 1,2-Dichloropropane	6.23	63	6393	2.261	ug/l #	67
46) Dibromomethane	6.08	93	4182	2.350	ug/l #	85
47) Bromodichloromethane	6.38	83	10154	2.582	ug/l #	96
48) Methyl methacrylate	6.72	41	4012	2.693	ug/l	96
49) 1,4-Dioxane	6.71	88	609	44.718	ug/l #	88
51) 4-Methyl-2-Pentanone	8.26	43	21996	13.520	ug/l	100
52) Toluene	7.62	92	16489	2.344	ug/l	97
53) t-1,3-Dichloropropene	8.28	75	9183	2.829	ug/l #	82
54) cis-1,3-Dichloropropene	7.30	75	10823	2.418	ug/l #	88
55) 1,1,2-Trichloroethane	8.49	97	4785	2.361	ug/l #	80
56) Ethyl methacrylate	8.63	69	5638	2.468	ug/l	91
57) 1,3-Dichloropropane	8.85	76	7712	2.326	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.29	63	4366	12.082	ug/l #	73
59) 2-Hexanone	9.49	43	14971	12.756	ug/l	88
60) Dibromochloromethane	8.71	129	6799	2.353	ug/l	100
61) 1,2-Dibromoethane	8.98	107	5099	2.288	ug/l	97
64) Tetrachloroethene	8.15	164	9185	3.042	ug/l	95
65) Chlorobenzene	9.80	112	19965	2.645	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	7852	2.685	ug/l	82
67) Ethyl Benzene	9.90	91	33982	2.716	ug/l	93
68) m/p-Xylenes	10.13	106	24663	5.145	ug/l	92
69) o-Xylene	10.71	106	12805	2.481	ug/l	96
70) Styrene	10.78	104	20008	2.754	ug/l	95
71) Bromoform	10.76	173	3973	2.570	ug/l	92
73) Isopropylbenzene	11.12	105	35973	2.256	ug/l	99
74) N-amyl acetate	11.38	43	9696	2.641	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.69	83	7003	2.643	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	5038	2.785	ug/l	82
77) Bromobenzene	11.49	156	8594	2.240	ug/l	94
78) n-propylbenzene	11.59	91	47264	2.625	ug/l	96
79) 2-Chlorotoluene	11.72	91	27987	2.719	ug/l	91
80) 1,3,5-Trimethylbenzene	11.82	105	31919	2.493	ug/l	86
81) trans-1,4-Dichloro-2-buten	11.87	75	2833	3.425	ug/l	89
82) 4-Chlorotoluene	11.90	91	28227	2.681	ug/l	100
83) tert-Butylbenzene	12.13	119	32639	2.401	ug/l	84
84) 1,2,4-Trimethylbenzene	12.20	105	30860	2.459	ug/l	93
85) sec-Butylbenzene	12.30	105	44608	2.522	ug/l	100
86) p-Isopropyltoluene	12.46	119	37886	2.520	ug/l	94
87) 1,3-Dichlorobenzene	12.47	146	21450	2.944	ug/l	94
88) 1,4-Dichlorobenzene	12.56	146	18987	2.701	ug/l	97
89) n-Butylbenzene	12.85	91	35488	2.470	ug/l	97
90) Hexachloroethane	12.91	117	8026	2.218	ug/l	77
91) 1,2-Dichlorobenzene	12.94	146	18900	2.738	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	1140	6.058	ug/l #	43

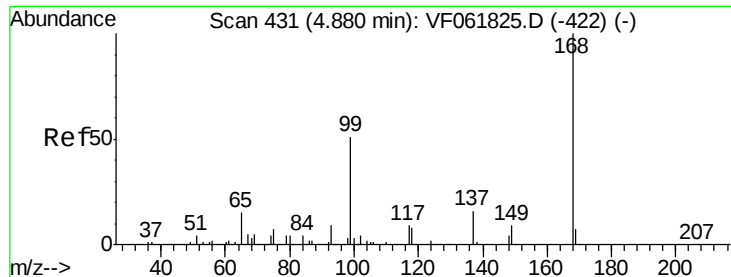
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030519\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	13493	2.788	ug/l	92
94) Hexachlorobutadiene	14.19	225	7992	2.385	ug/l	92
95) Naphthalene	14.45	128	18871	2.189	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	11368	2.544	ug/l	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

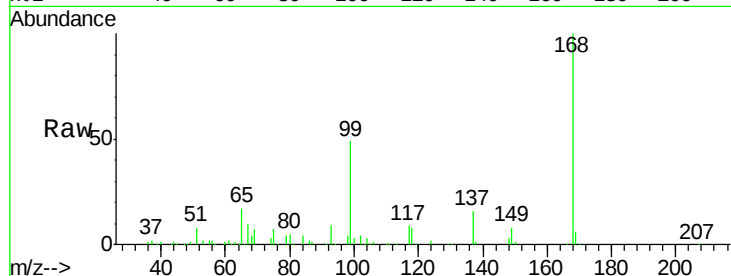
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:168 Resp: 309832

Ion Ratio Lower Upper

168 100

99 48.9 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

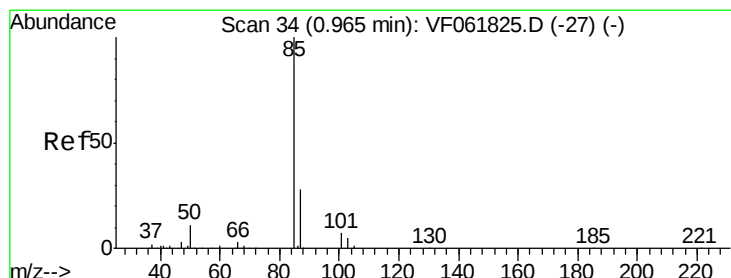
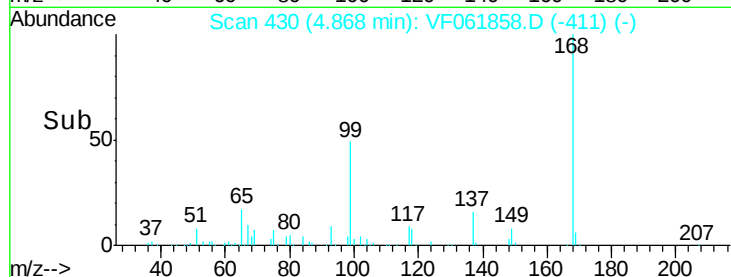
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 2.523 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061858.D

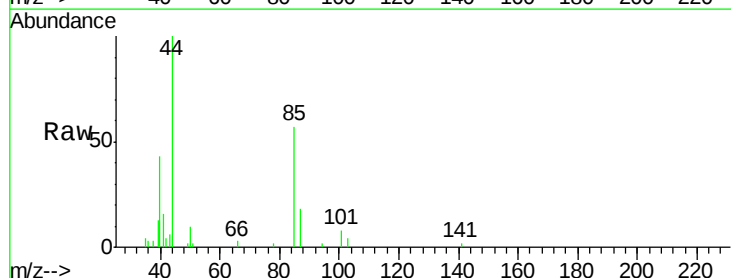
Acq: 5 Mar 2019 21:24

Tgt Ion: 85 Resp: 9596

Ion Ratio Lower Upper

85 100

87 32.0 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

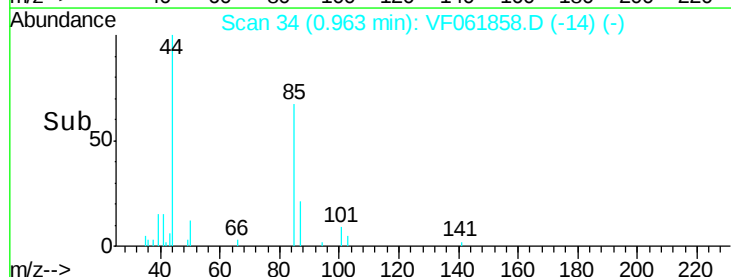
3000

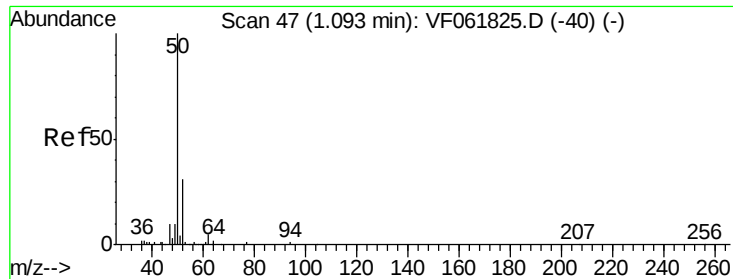
2000

1000

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 2.683 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

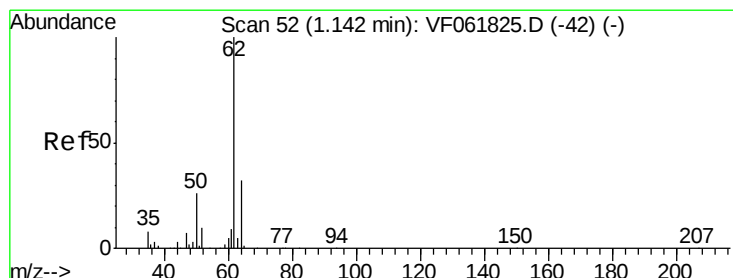
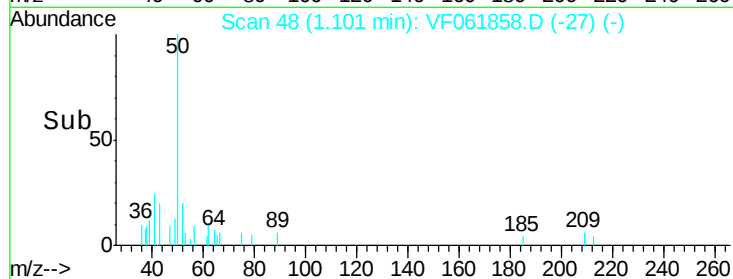
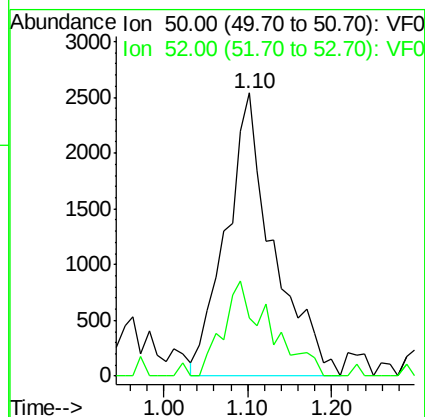
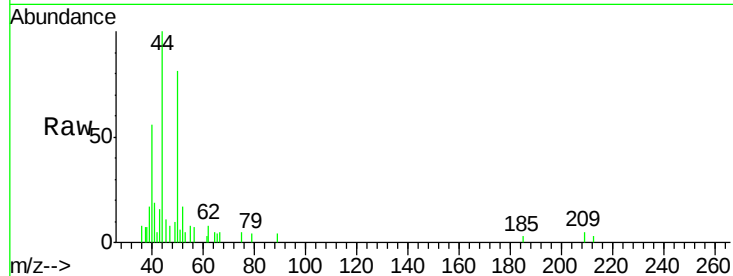
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 50 Resp: 9891

Ion Ratio Lower Upper

50 100

52 20.5 23.8 35.8#



#4

Vinyl Chloride

Concen: 2.361 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061858.D

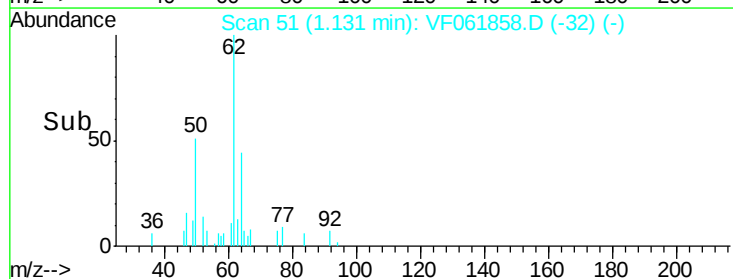
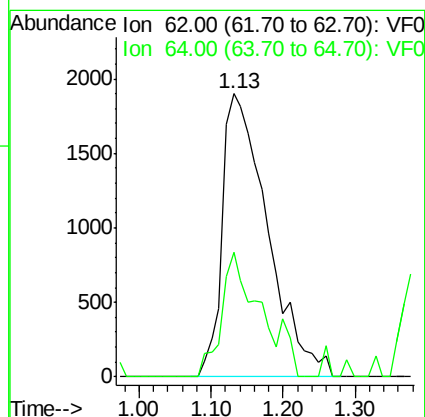
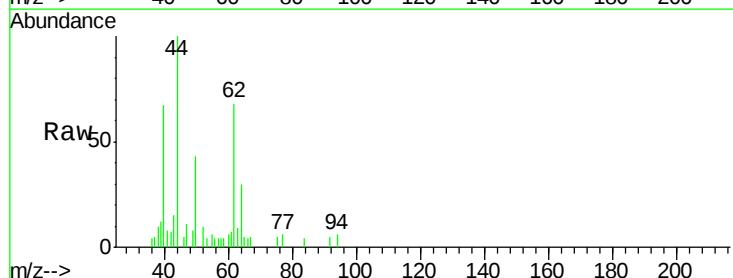
Acq: 5 Mar 2019 21:24

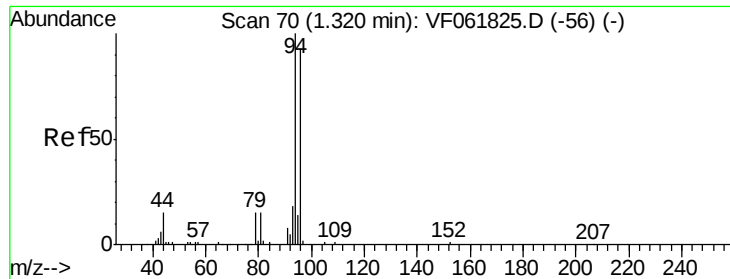
Tgt Ion: 62 Resp: 8261

Ion Ratio Lower Upper

62 100

64 43.9 25.2 37.8#





#5

Bromomethane

Concen: 2.998 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

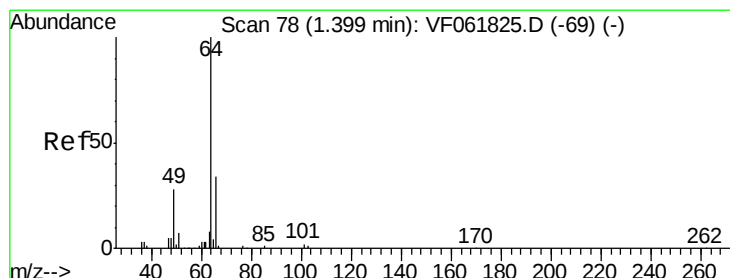
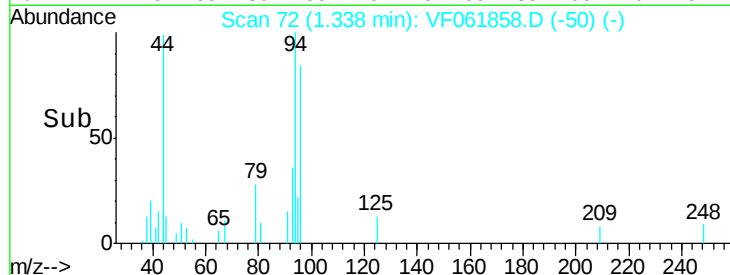
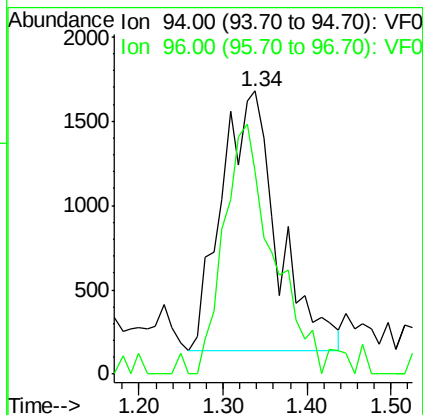
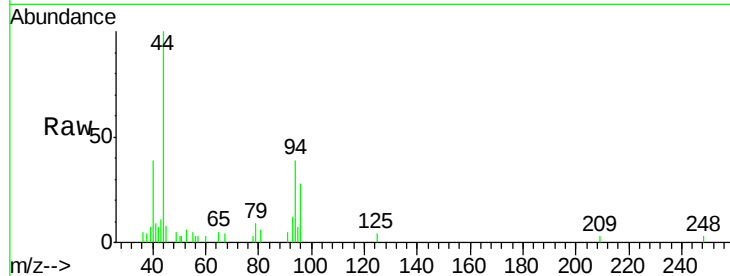
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 94 Resp: 7149

Ion Ratio Lower Upper

94 100

96 71.9 75.2 112.8#



#6

Chloroethane

Concen: 2.500 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061858.D

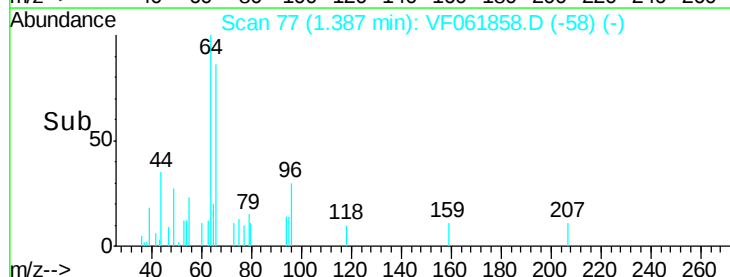
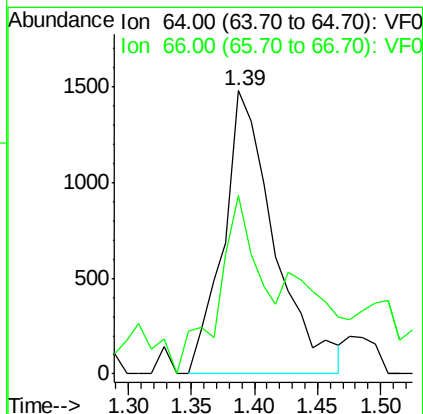
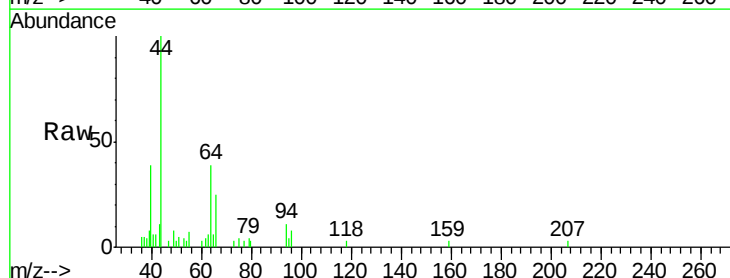
Acq: 5 Mar 2019 21:24

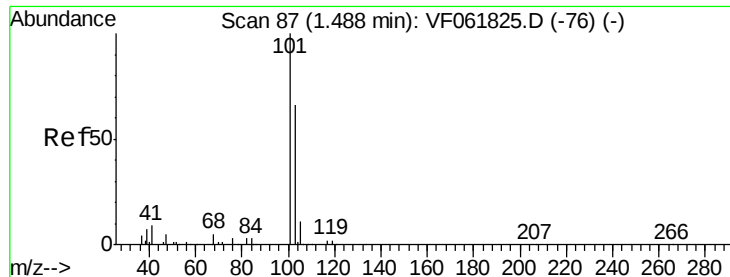
Tgt Ion: 64 Resp: 4159

Ion Ratio Lower Upper

64 100

66 63.2 27.0 40.4#





#7

Trichlorofluoromethane

Concen: 2.639 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

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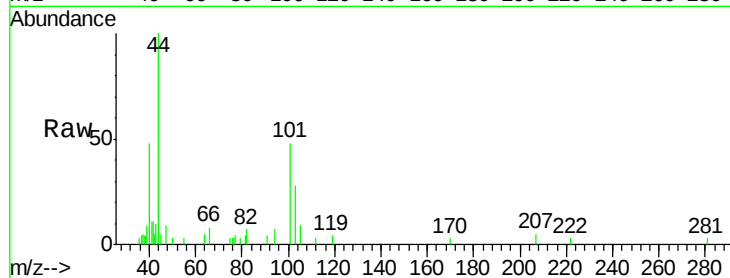
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:101 Resp: 11279

Ion Ratio Lower Upper

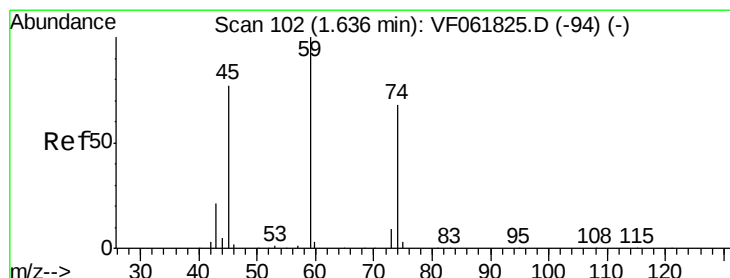
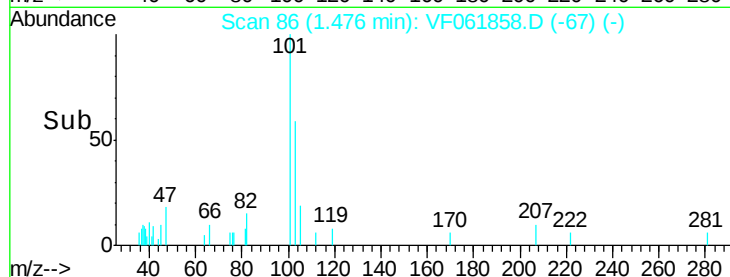
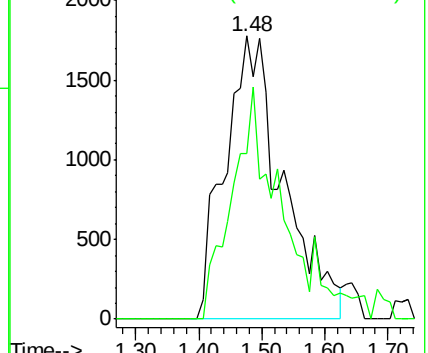
101 100

103 58.6 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.938 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061858.D

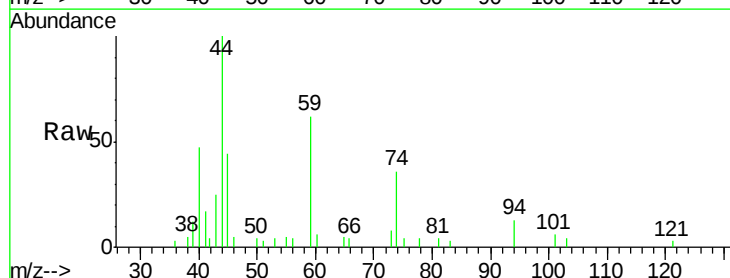
Acq: 5 Mar 2019 21:24

Tgt Ion: 74 Resp: 2856

Ion Ratio Lower Upper

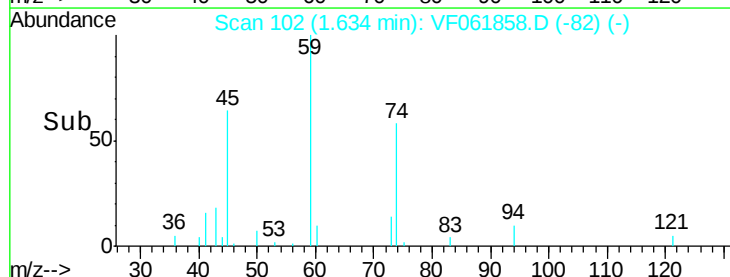
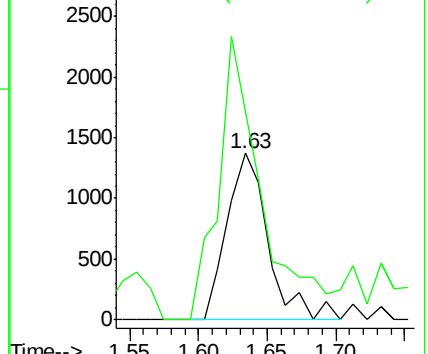
74 100

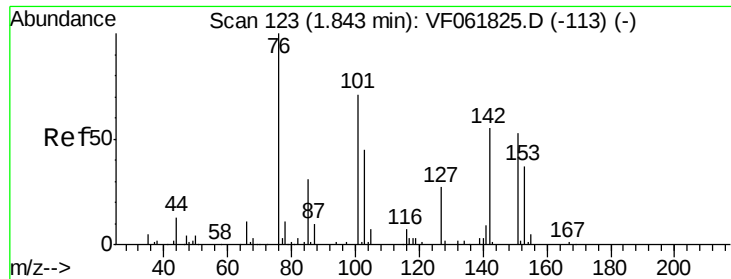
45 124.8 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.983 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

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ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

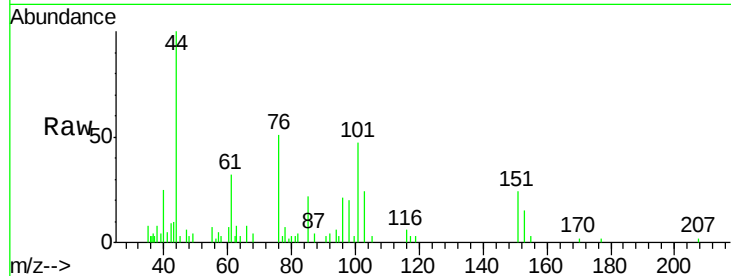
Tot Ion:101 Resp: 8659

Ion Ratio Lower Upper

101 100

85 46.7 34.0 51.0

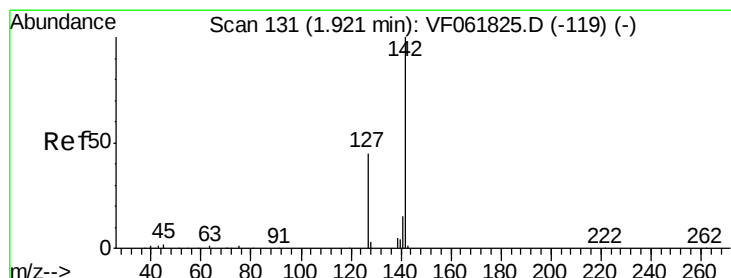
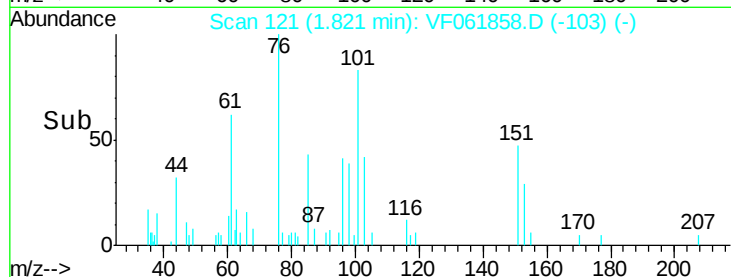
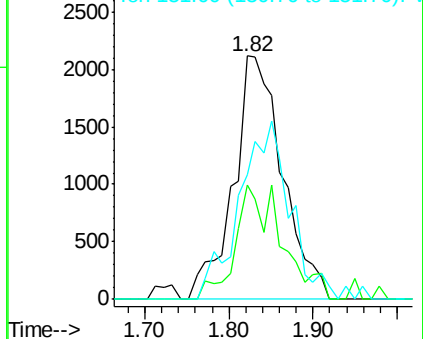
151 51.0 57.3 85.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 2.123 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

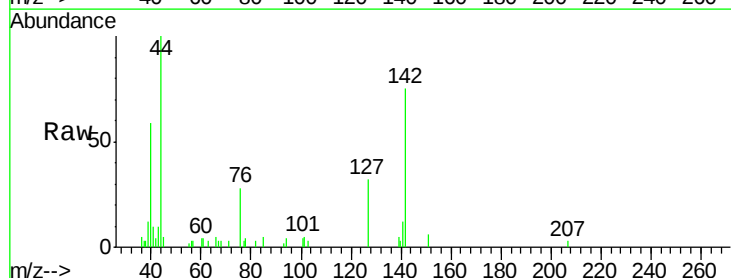
Tgt Ion:142 Resp: 11726

Ion Ratio Lower Upper

142 100

127 42.7 35.8 53.6

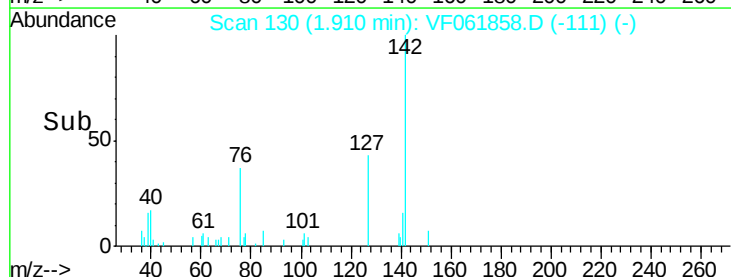
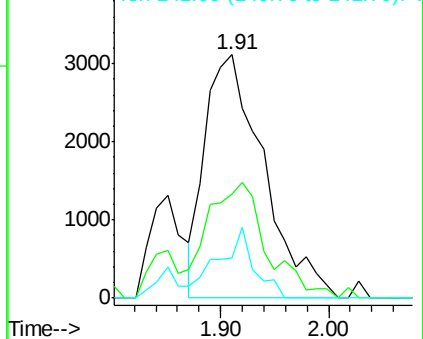
141 16.5 11.7 17.5

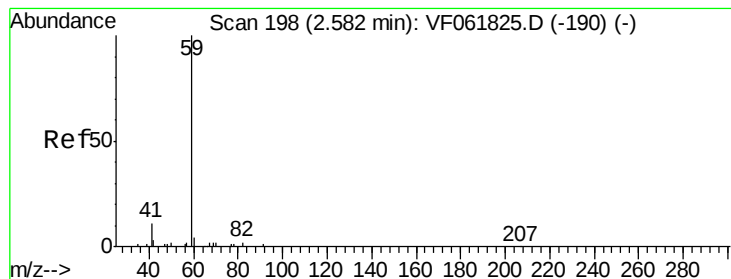


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



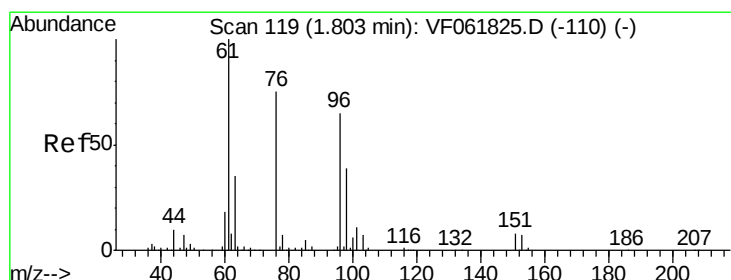
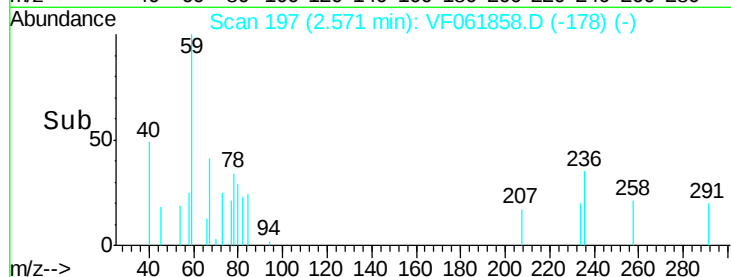
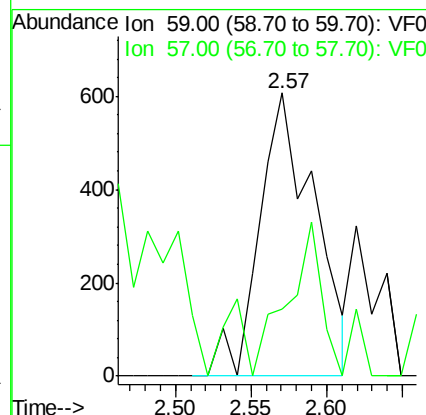
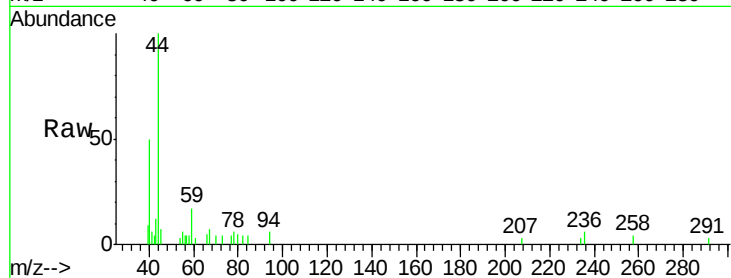


#11

Tert butyl alcohol
Concen: 11.978 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

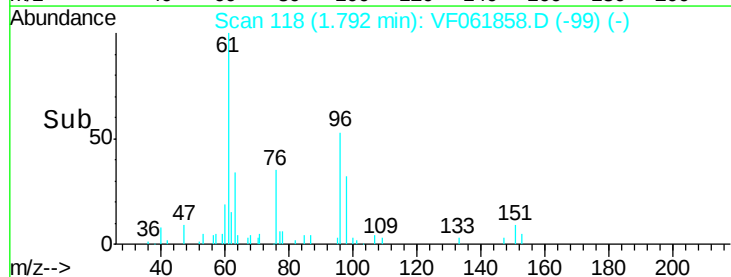
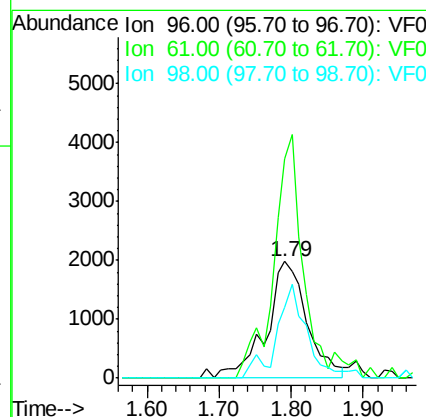
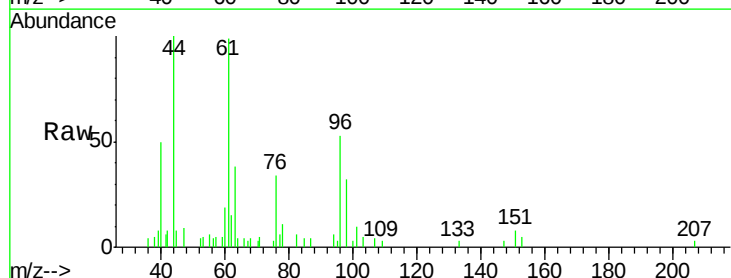
Tot Ion: 59 Resp: 1534
Ion Ratio Lower Upper
59 100
57 23.7 11.8 17.6#

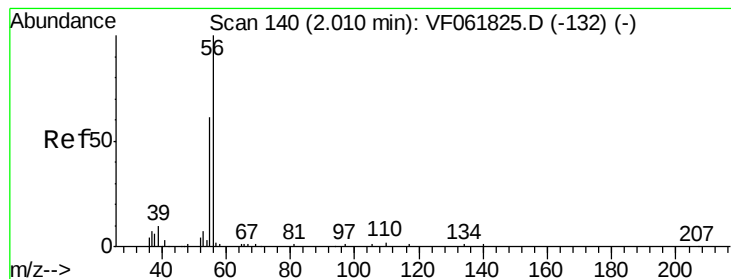


#12

1,1-Dichloroethene
Concen: 2.961 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 96 Resp: 7846
Ion Ratio Lower Upper
96 100
61 188.2 122.5 183.7#
98 60.6 47.1 70.7





#13

Acrolein

Concen: 14.697 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

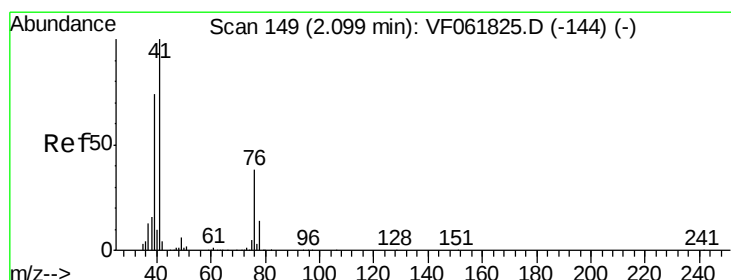
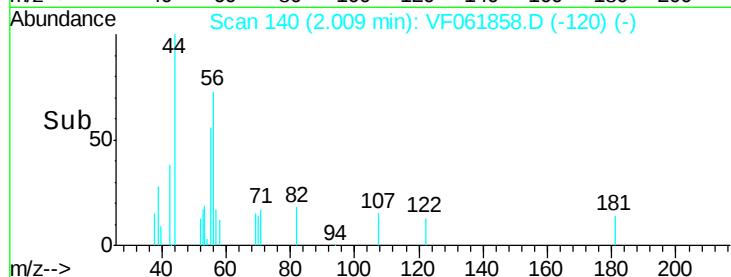
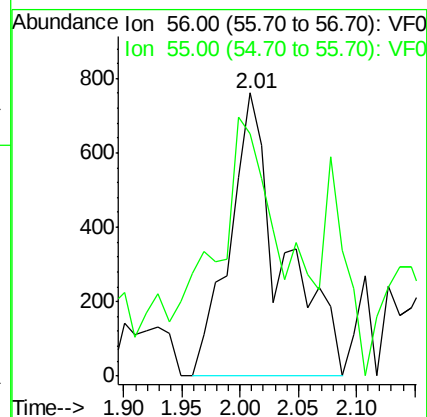
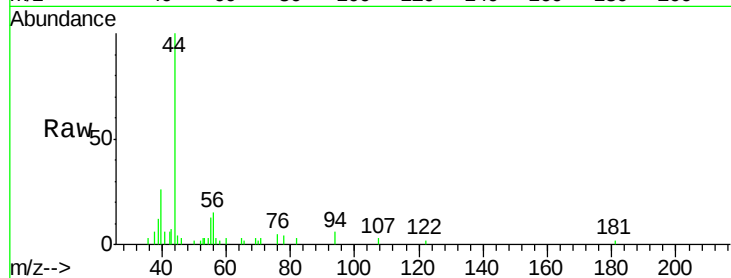
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 56 Resp: 2385

Ion Ratio Lower Upper

56 100

55 85.4 51.3 76.9#



#14

Allyl chloride

Concen: 2.573 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

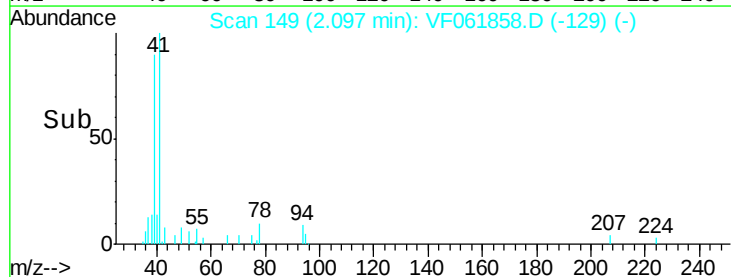
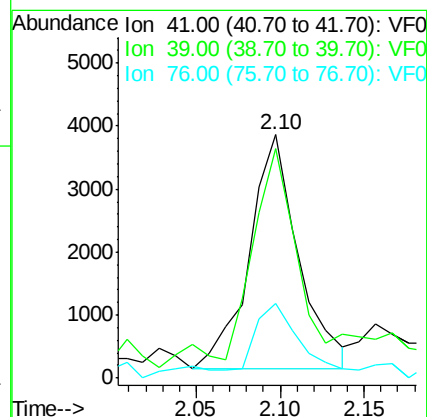
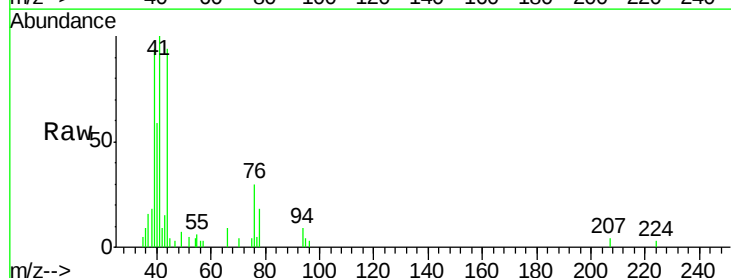
Tgt Ion: 41 Resp: 7511

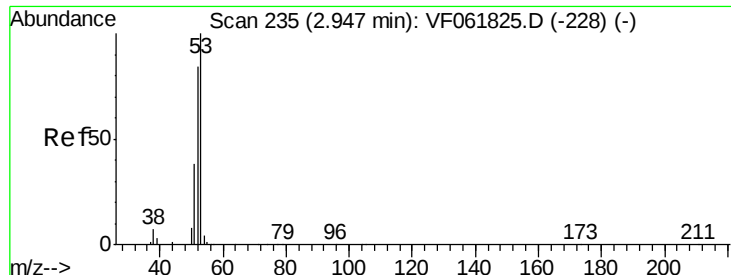
Ion Ratio Lower Upper

41 100

39 94.3 59.6 89.4#

76 30.4 32.3 48.5#





#15

Acrylonitrile

Concen: 15.584 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

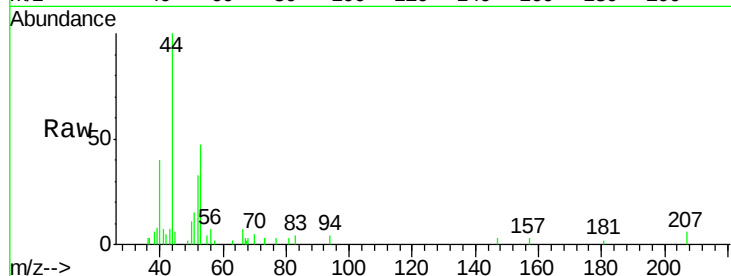
Tot Ion: 53 Resp: 6355

Ion Ratio Lower Upper

53 100

52 69.6 67.4 101.0

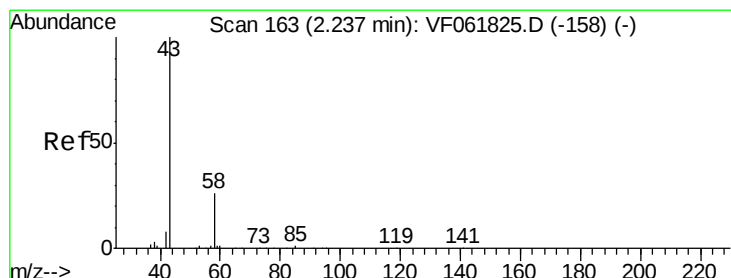
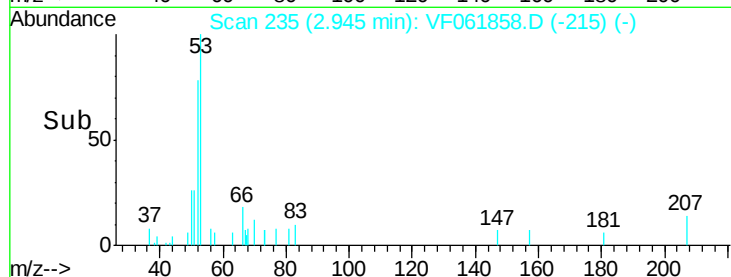
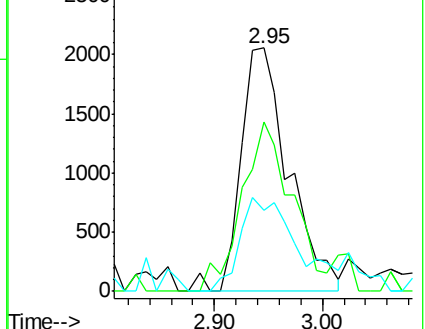
51 33.0 30.7 46.1



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 13.753 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061858.D

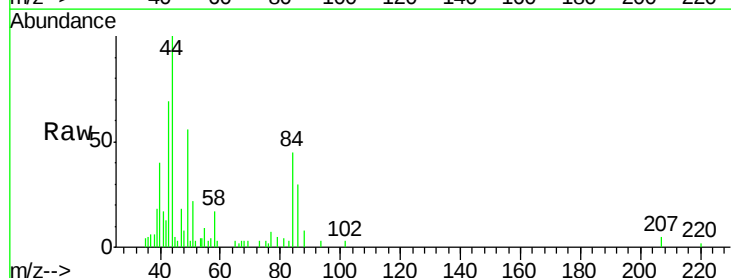
Acq: 5 Mar 2019 21:24

Tgt Ion: 43 Resp: 6500

Ion Ratio Lower Upper

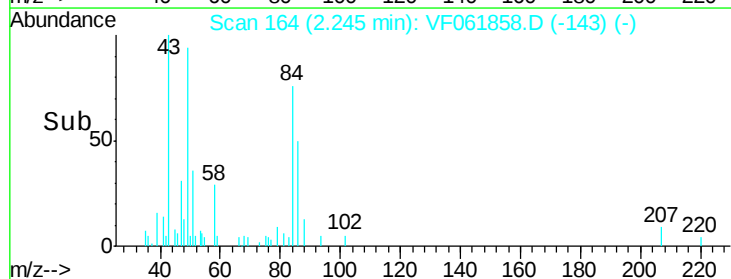
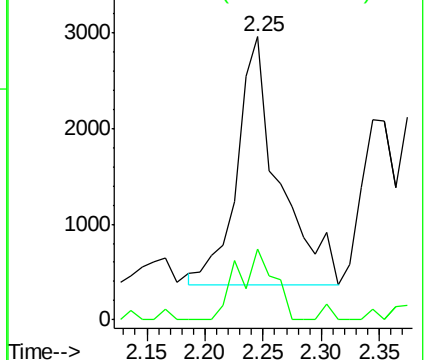
43 100

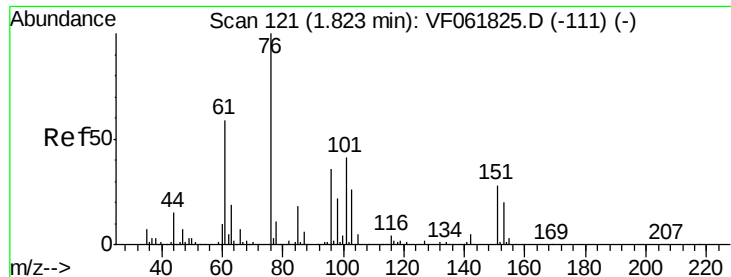
58 25.2 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 1.945 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

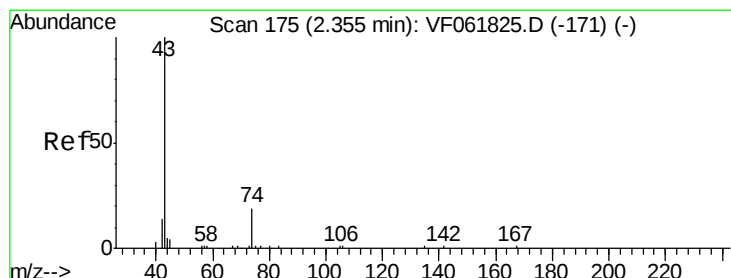
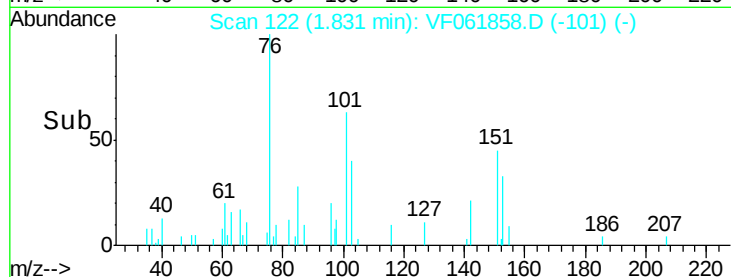
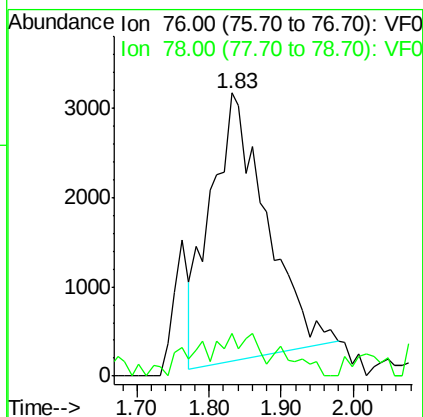
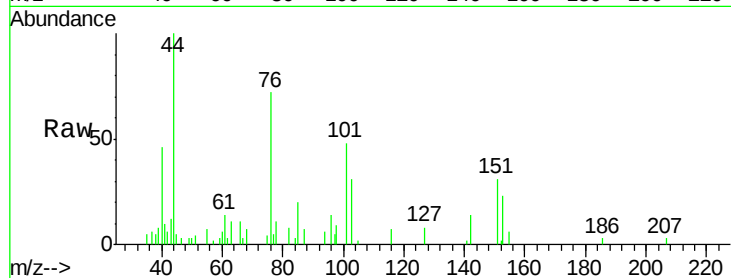
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 16042

Ion Ratio Lower Upper

76 100

78 15.3 9.1 13.7#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061858.D

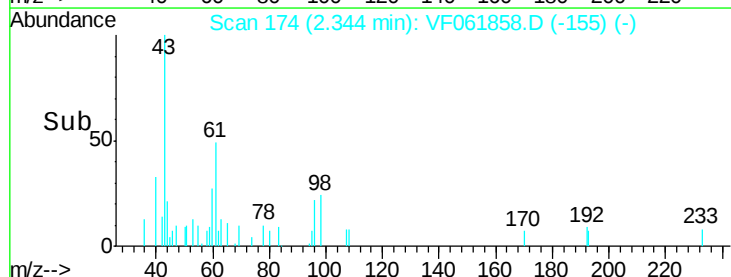
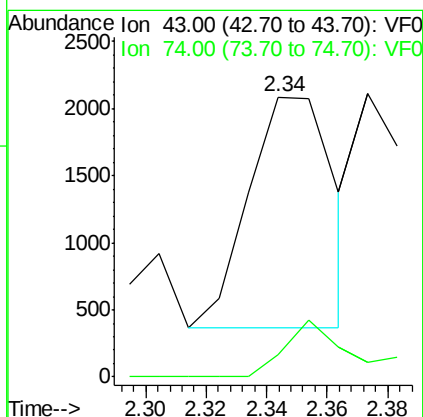
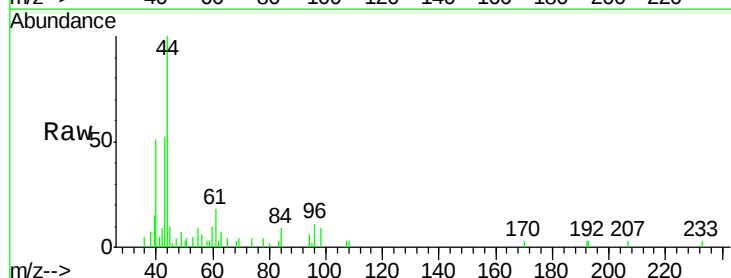
Acq: 5 Mar 2019 21:24

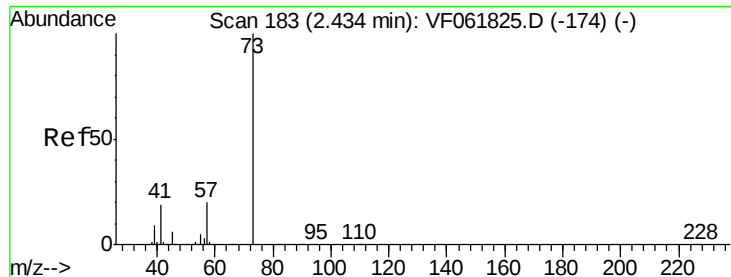
Tgt Ion: 43 Resp: 3361

Ion Ratio Lower Upper

43 100

74 8.1 13.2 19.8#



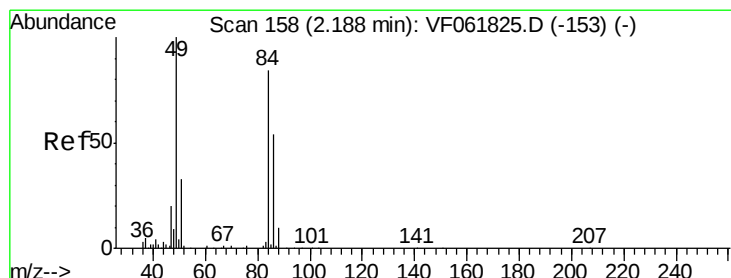
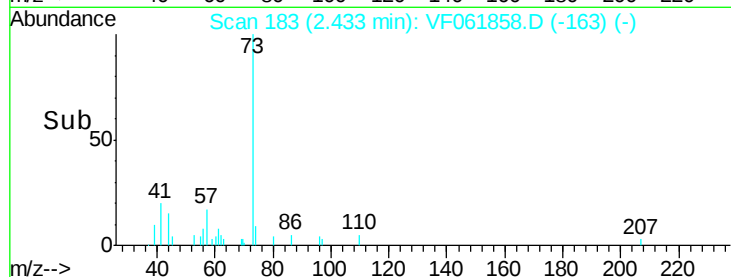
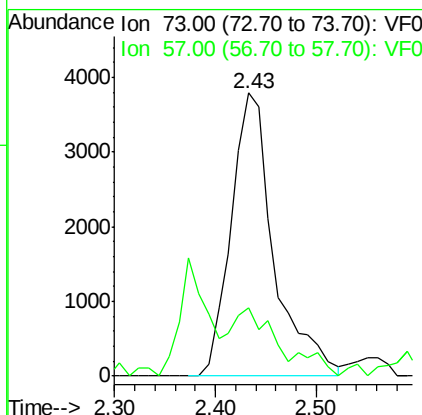
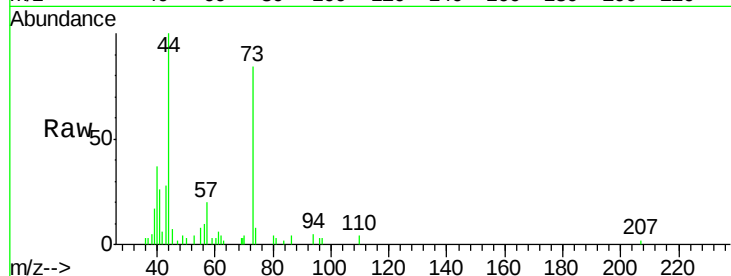


#19

Methyl tert-butyl Ether
 Concen: 2.513 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

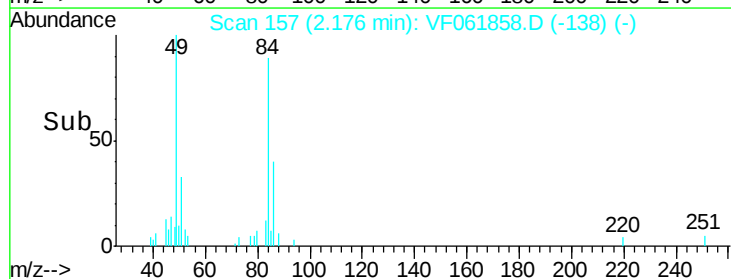
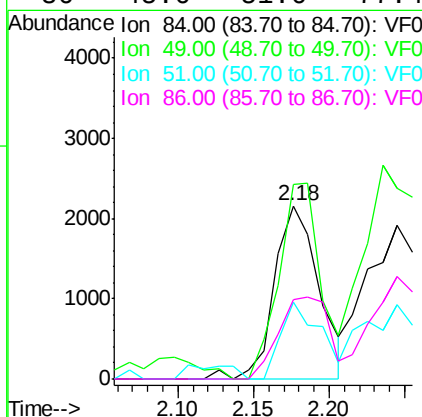
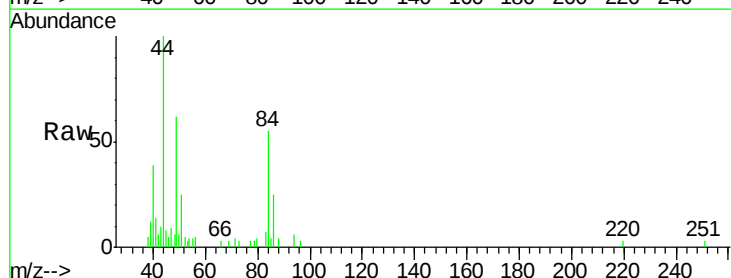
Tot Ion: 73 Resp: 11263
 Ion Ratio Lower Upper
 73 100
 57 24.3 16.1 24.1#

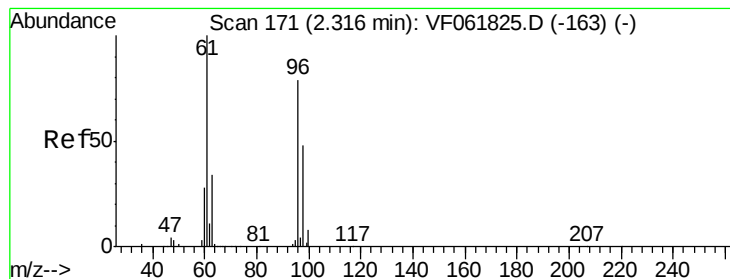


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.18 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion: 84 Resp: 4445
 Ion Ratio Lower Upper
 84 100
 49 112.8 96.8 145.2
 51 44.6 31.8 47.6
 86 45.6 51.6 77.4#





#21

trans-1,2-Dichloroethene

Concen: 2.907 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

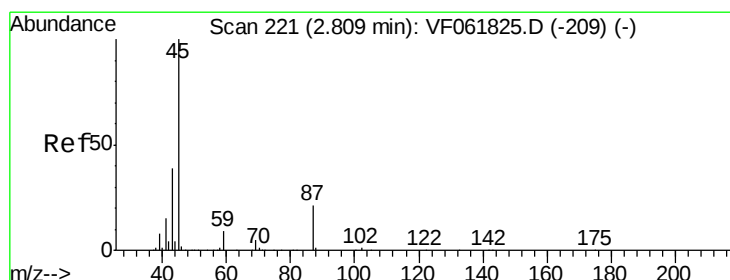
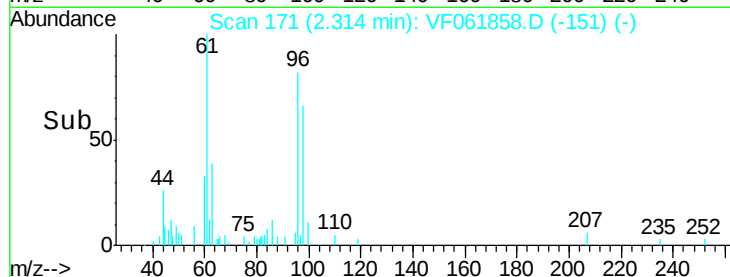
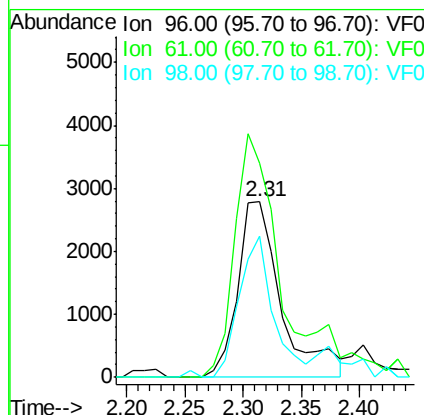
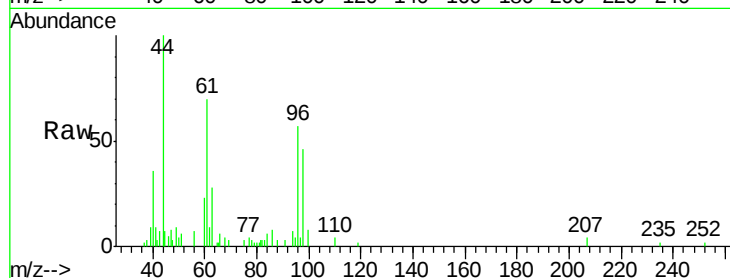
Tot Ion: 96 Resp: 7251

Ion Ratio Lower Upper

96 100

61 122.6 101.0 151.6

98 80.3 48.8 73.2#



#22

Diisopropyl ether

Concen: 2.865 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion: 45 Resp: 21754

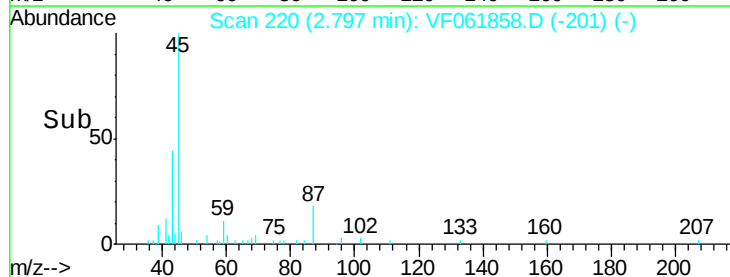
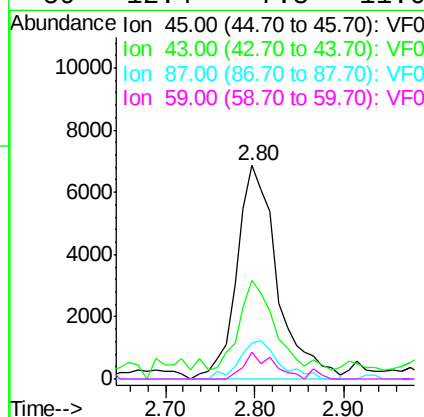
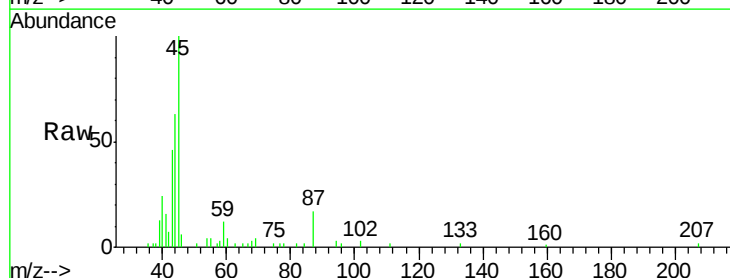
Ion Ratio Lower Upper

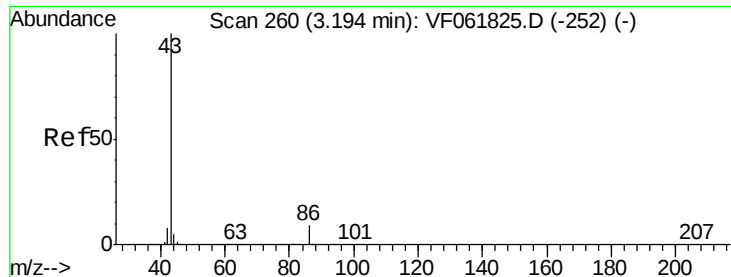
45 100

43 46.2 31.8 47.8

87 16.7 17.1 25.7#

59 12.4 7.8 11.6#





#23

Vinyl Acetate

Concen: 12.427 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

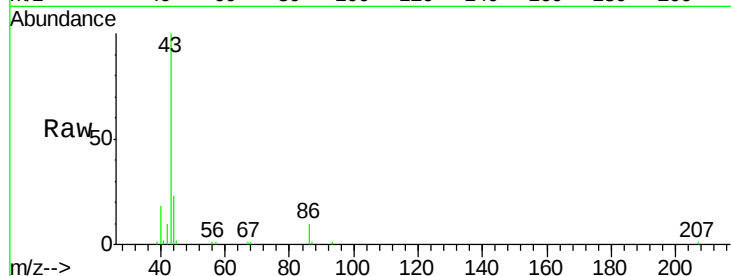
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 42157

Ion Ratio Lower Upper

43 100

86 9.5 7.0 10.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

15000

10000

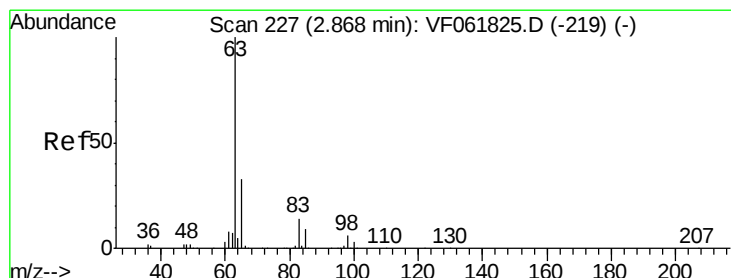
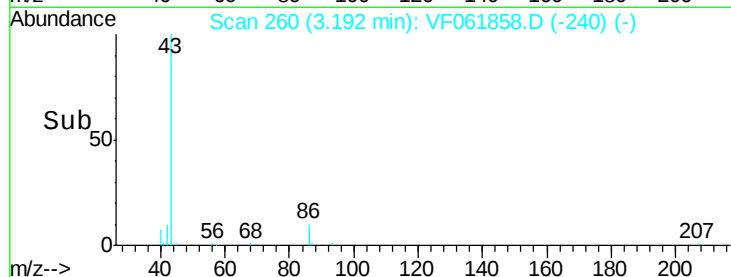
5000

0

Time-->

3.10 3.20 3.30

3.19



#24

1,1-Dichloroethane

Concen: 2.796 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

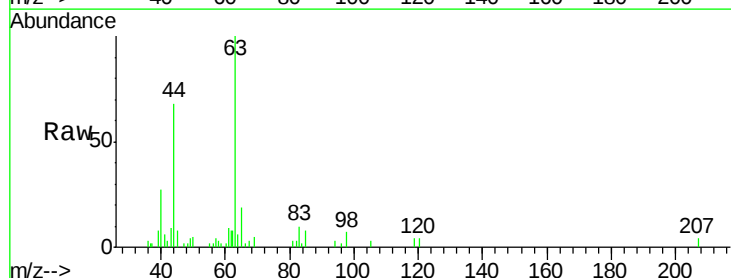
Tgt Ion: 63 Resp: 12689

Ion Ratio Lower Upper

63 100

98 6.7 2.9 8.6

100 0.0 1.8 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

6000

4000

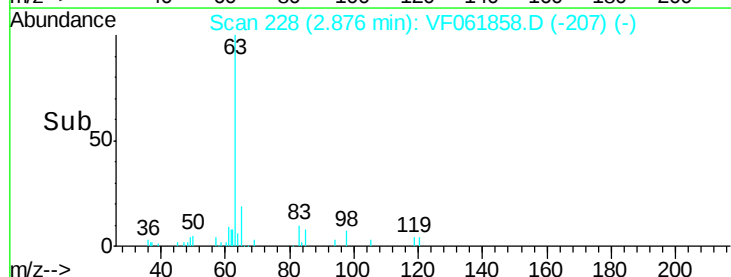
2000

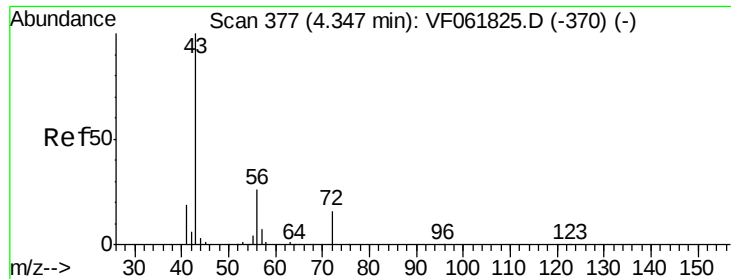
0

Time-->

2.80 2.90 3.00

2.88

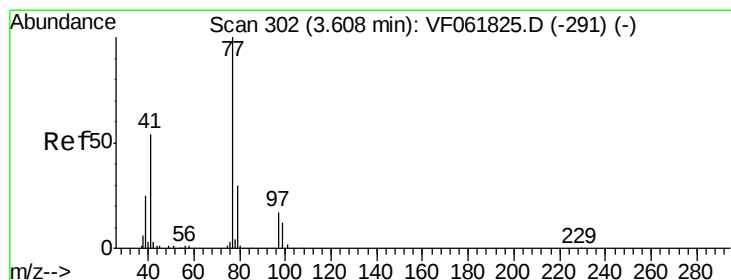
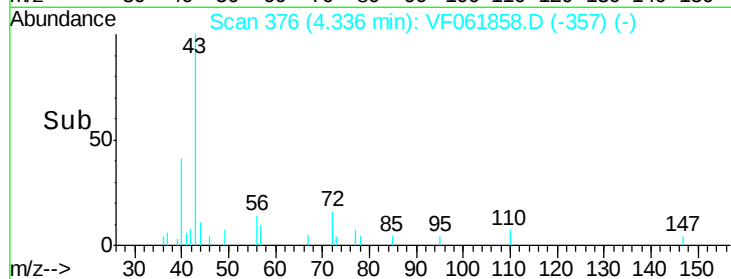
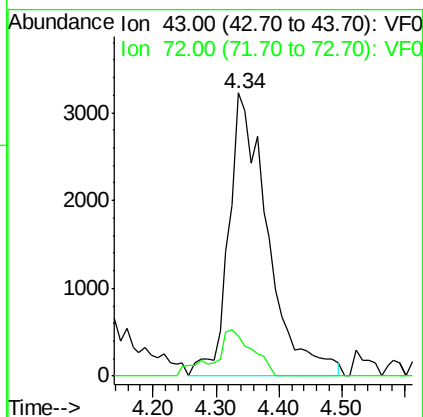
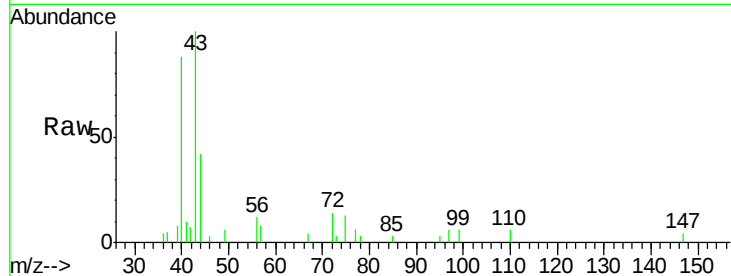




#25
2-Butanone
Concen: 14.478 ug/l
RT: 4.34 min Scan# 376
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

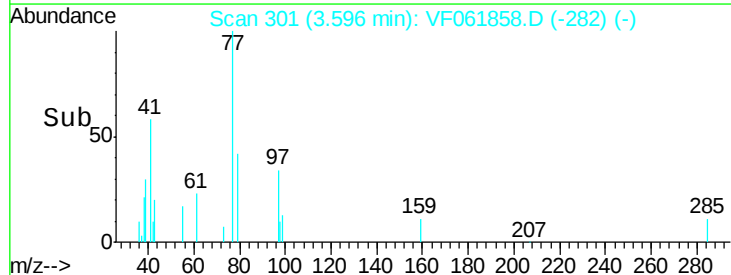
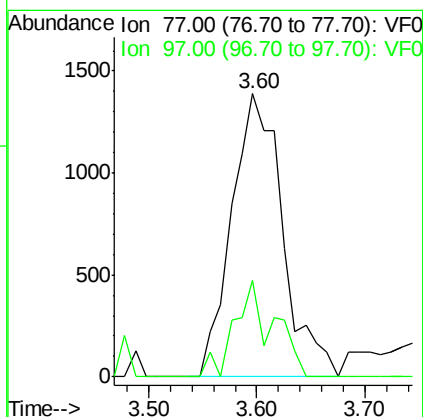
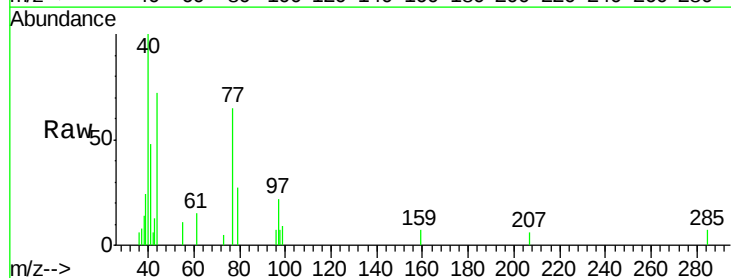
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

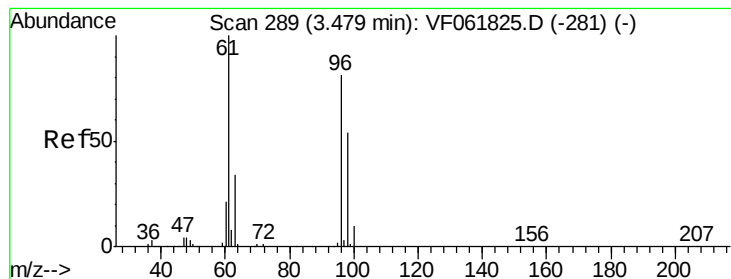
Tot Ion: 43 Resp: 13919
Ion Ratio Lower Upper
43 100
72 14.0 16.2 24.4#



#26
2,2-Dichloropropane
Concen: 2.252 ug/l
RT: 3.60 min Scan# 301
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 77 Resp: 4562
Ion Ratio Lower Upper
77 100
97 34.3 10.4 31.4#



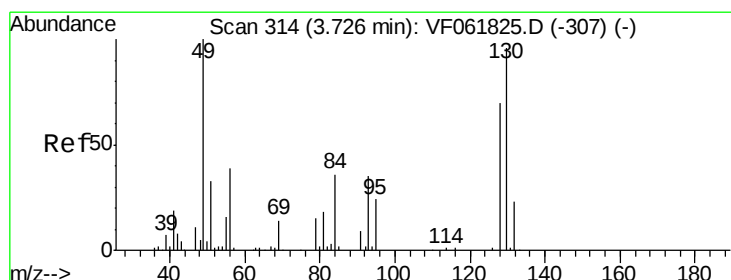
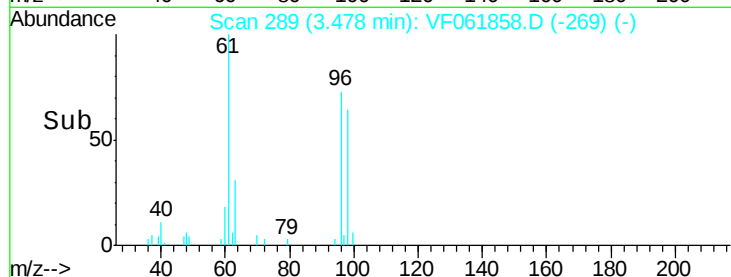
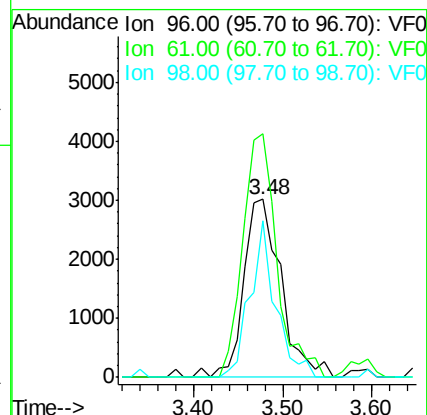
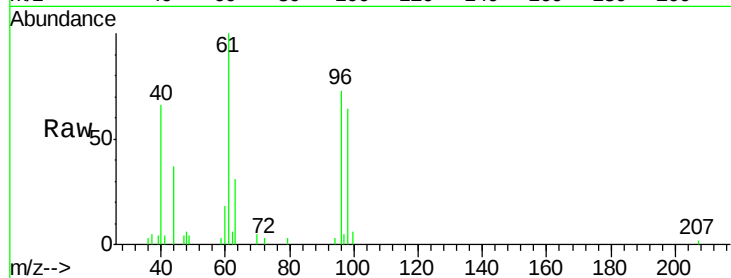


#27

cis-1,2-Dichloroethene
 Concen: 2.528 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

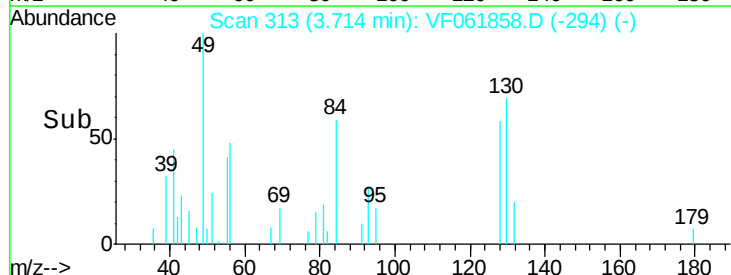
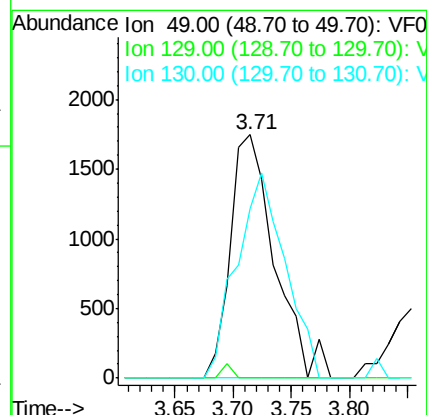
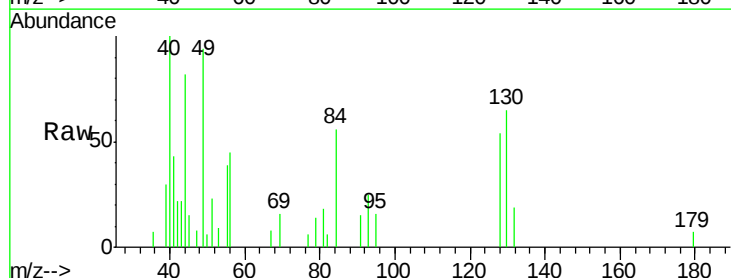
Tot Ion: 96 Resp: 8734
 Ion Ratio Lower Upper
 96 100
 61 137.0 0.0 245.8
 98 88.3 0.0 132.6

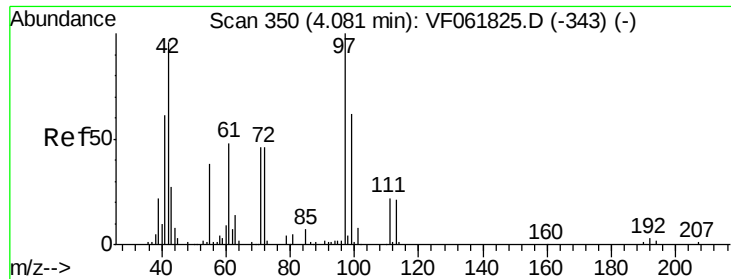


#28

Bromochloromethane
 Concen: 2.333 ug/l
 RT: 3.71 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion: 49 Resp: 4615
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 0.0
 130 69.3 76.9 115.3#

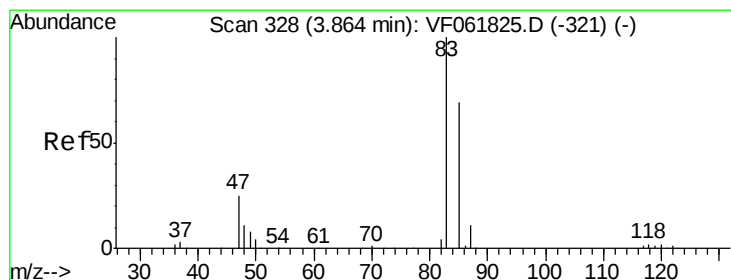
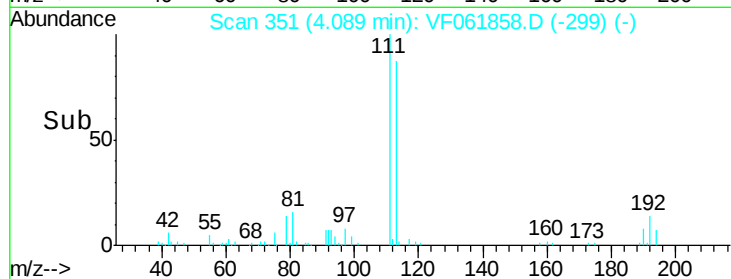
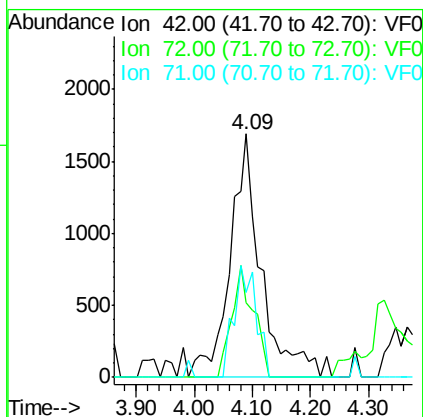
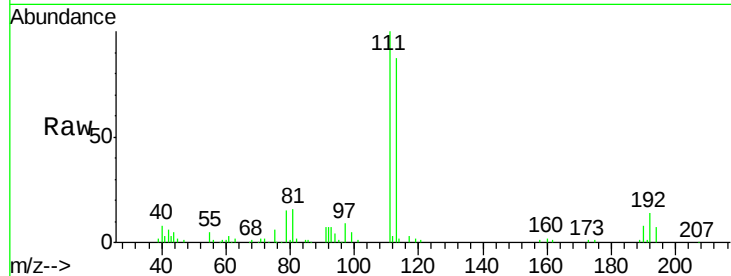




#29
Tetrahydrofuran
Concen: 15.192 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

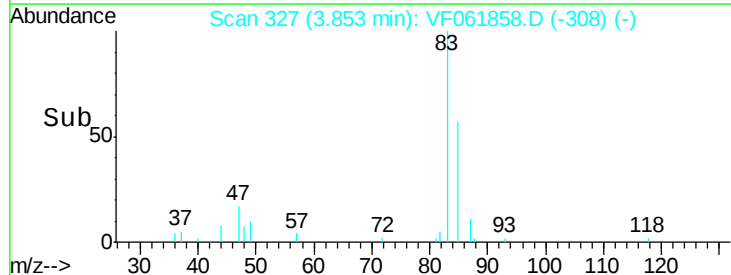
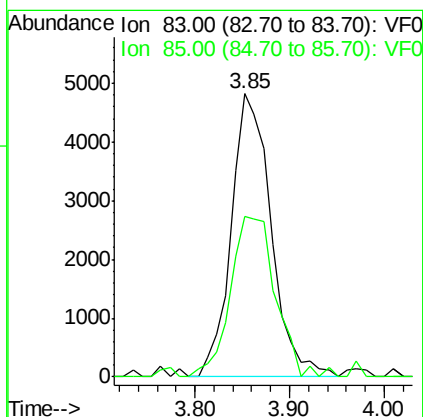
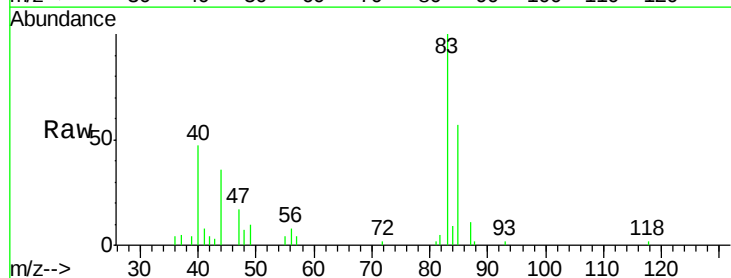
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

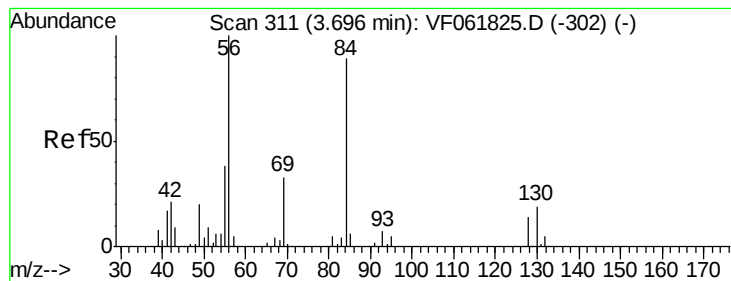
Tot Ion: 42 Resp: 6299
Ion Ratio Lower Upper
42 100
72 31.8 34.4 51.6#
71 32.7 34.6 52.0#



#30
Chloroform
Concen: 2.721 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 83 Resp: 14109
Ion Ratio Lower Upper
83 100
85 56.9 55.3 82.9





#31

Cyclohexane

Concen: 1.309 ug/l

RT: 3.68 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

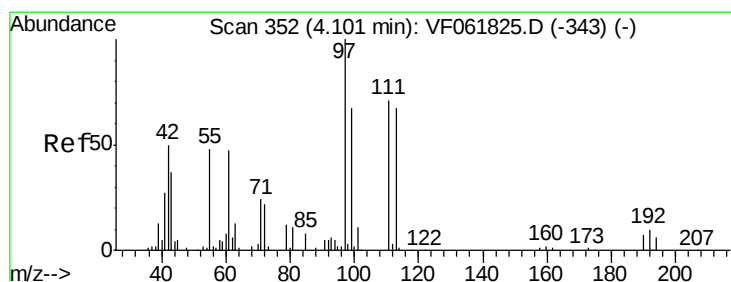
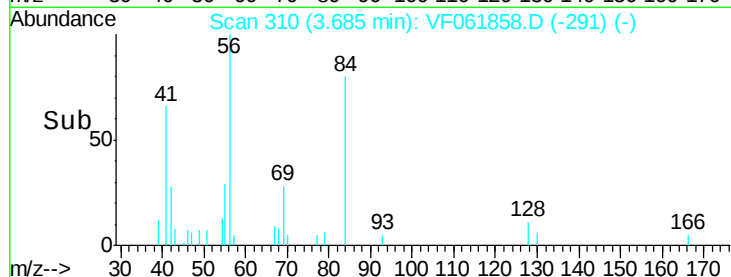
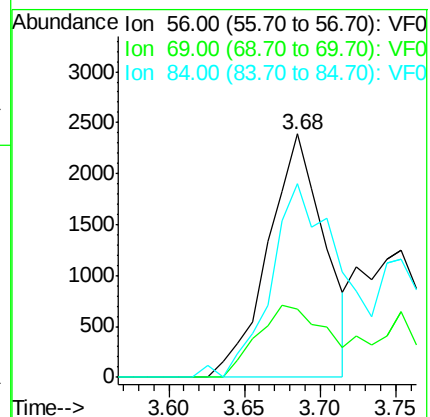
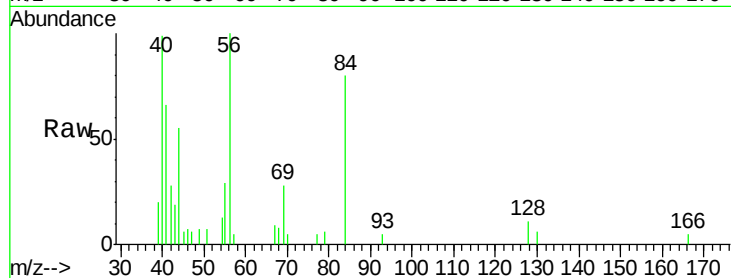
Tot Ion: 56 Resp: 6221

Ion Ratio Lower Upper

56 100

69 28.2 26.0 39.0

84 79.6 71.0 106.6



#32

1,1,1-Trichloroethane

Concen: 2.665 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

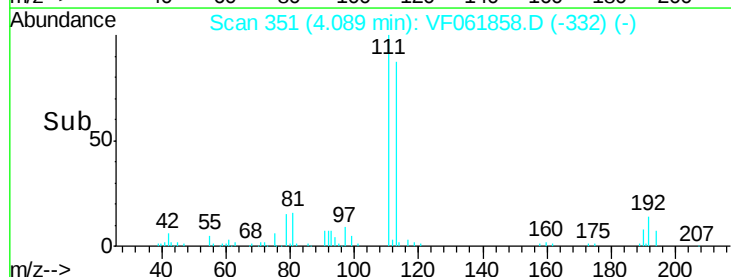
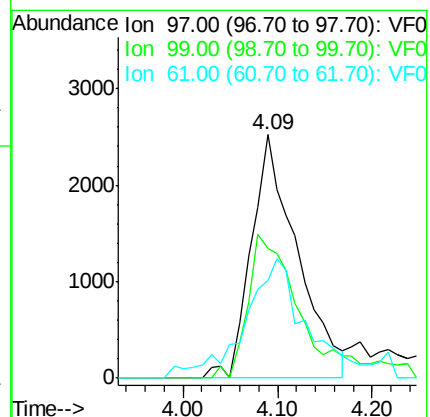
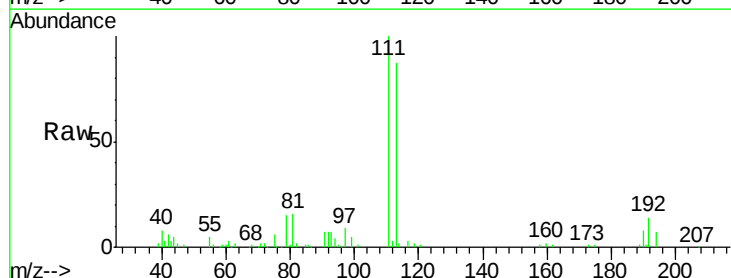
Tgt Ion: 97 Resp: 8516

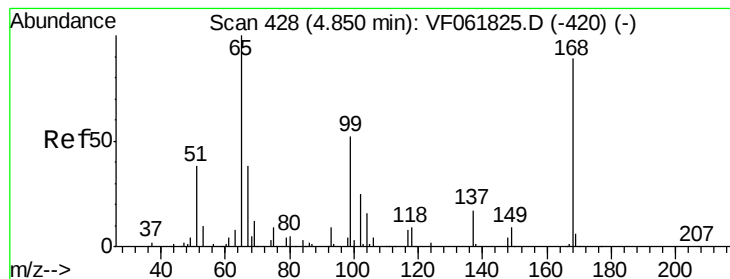
Ion Ratio Lower Upper

97 100

99 53.1 53.8 80.8#

61 39.9 37.9 56.9





#33

1,2-Dichloroethane-d4

Concen: 53.898 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

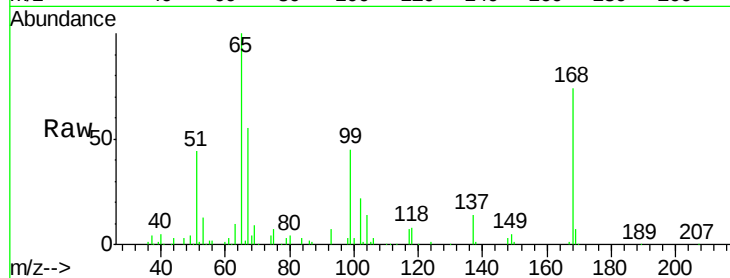
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 65 Resp: 121612

Ion Ratio Lower Upper

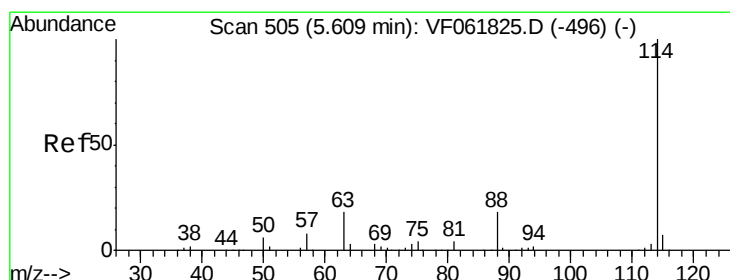
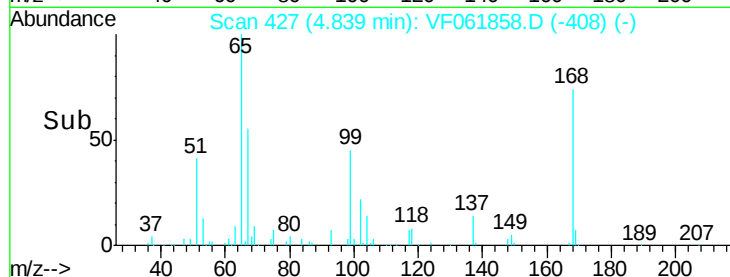
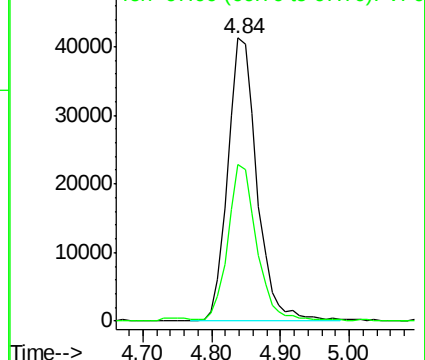
65 100

67 55.2 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

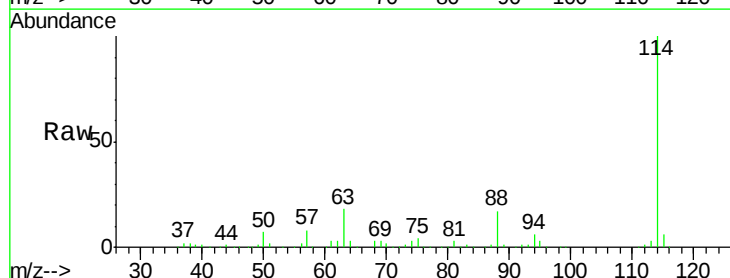
Tgt Ion: 114 Resp: 481643

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

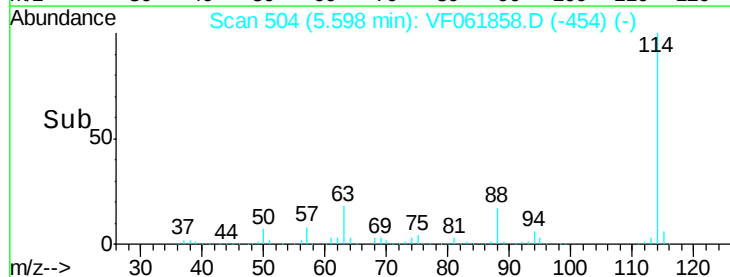
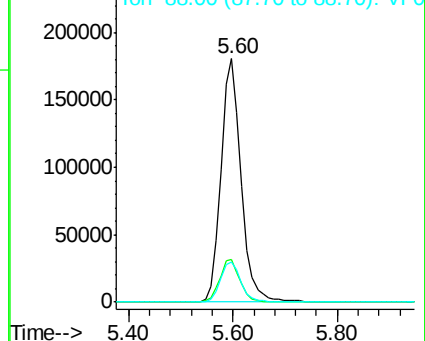
88 16.6 0.0 35.6

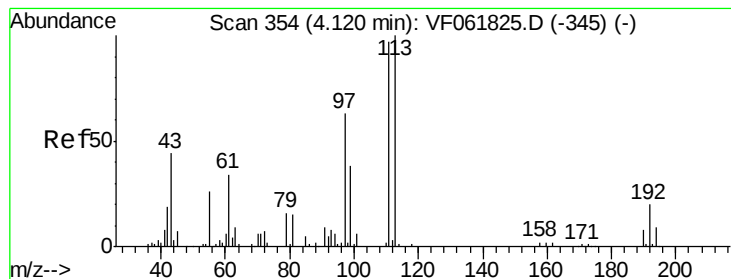


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 50.662 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

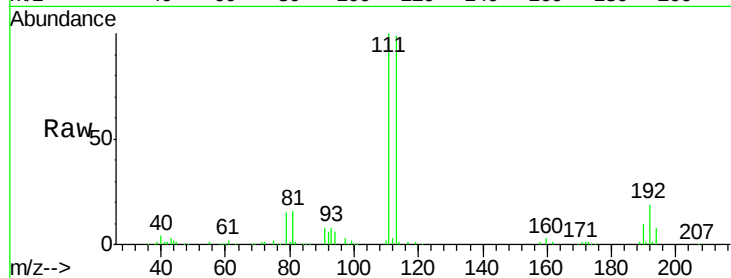
Tot Ion:113 Resp: 170288

Ion Ratio Lower Upper

113 100

111 101.2 77.6 116.4

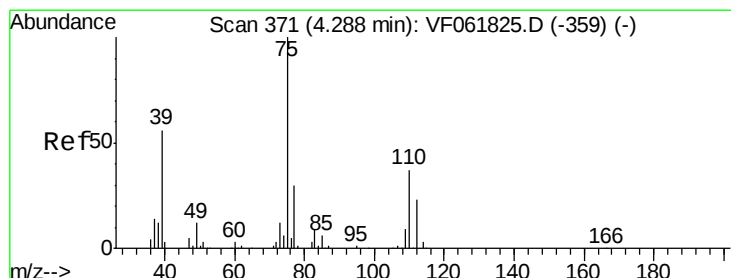
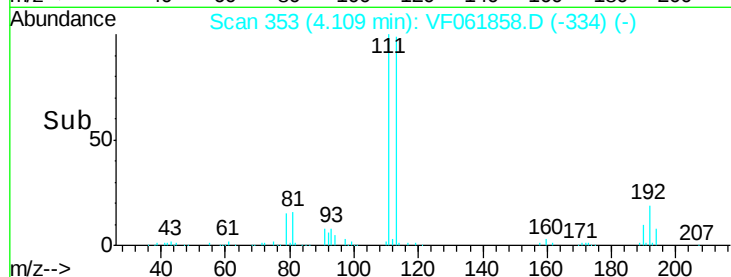
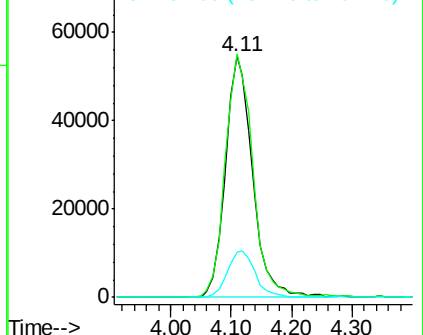
192 18.8 15.9 23.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 2.970 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

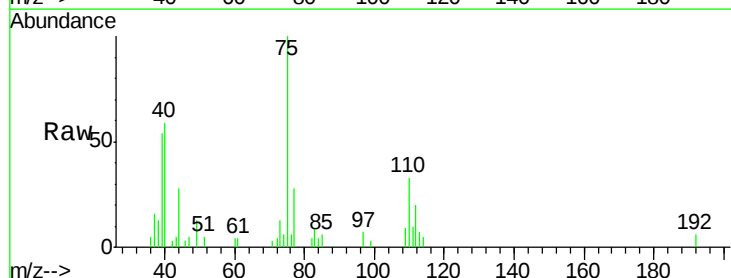
Tgt Ion: 75 Resp: 13513

Ion Ratio Lower Upper

75 100

110 32.8 18.6 55.6

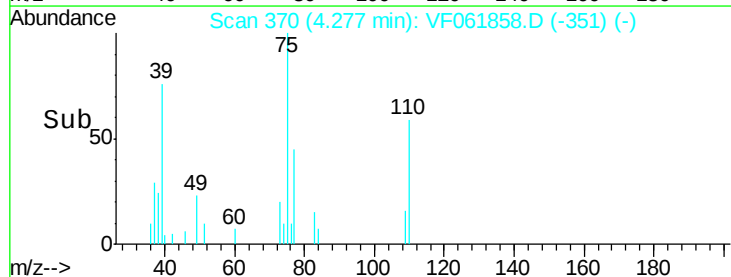
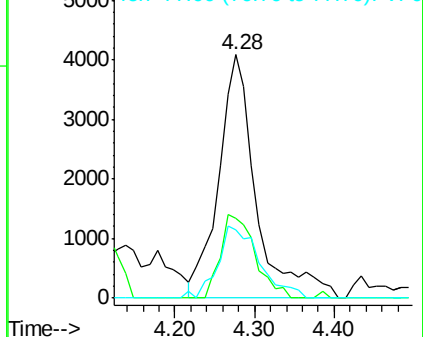
77 28.1 24.2 36.2

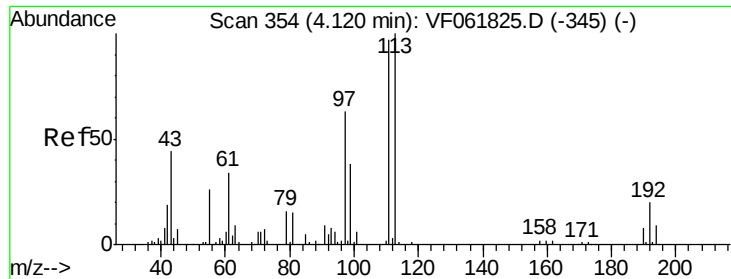


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

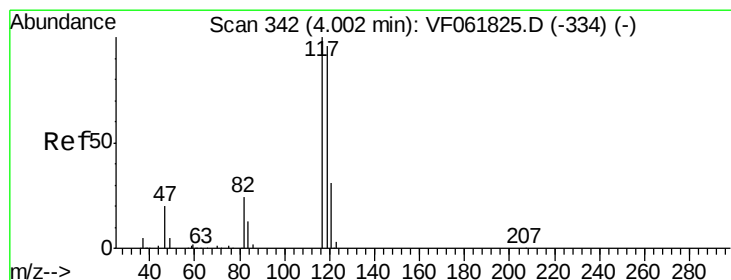
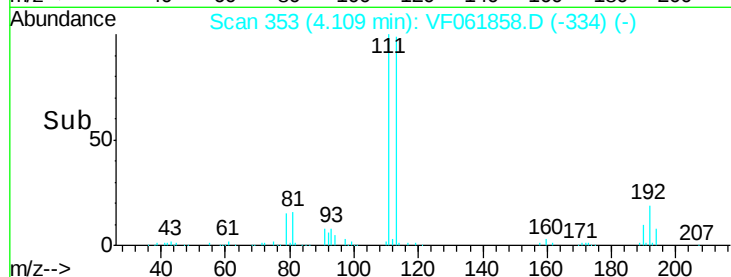
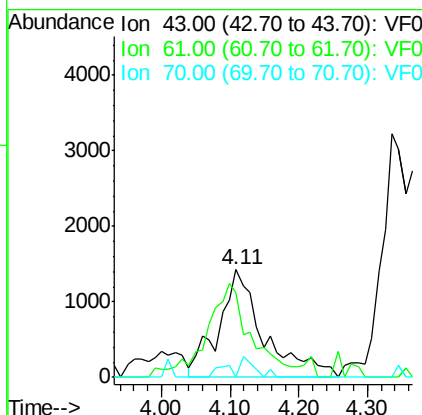
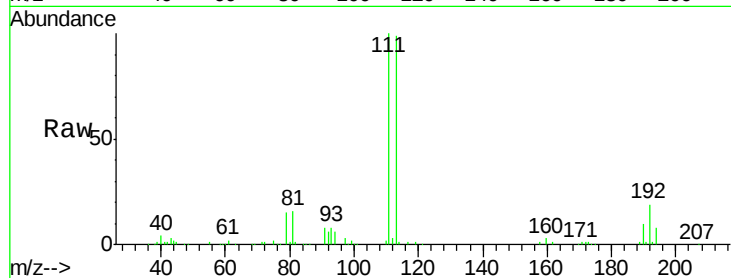




#37
Ethyl Acetate
Concen: 3.404 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

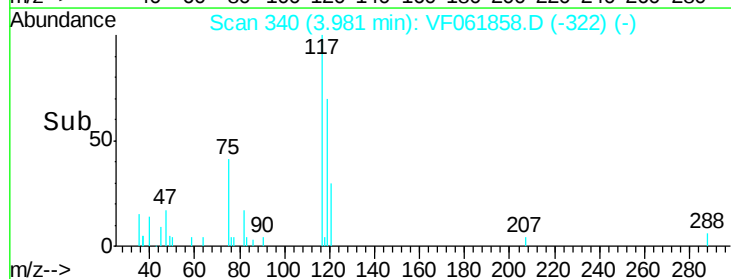
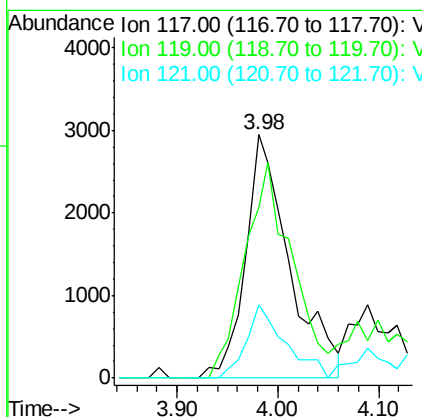
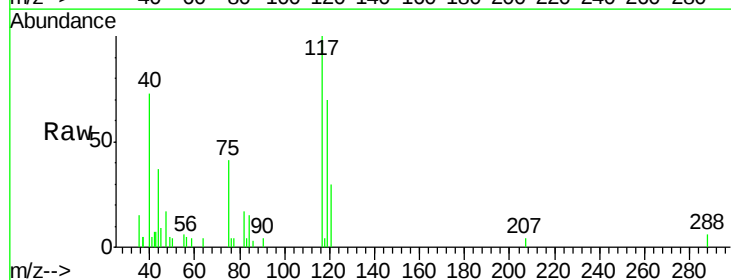
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

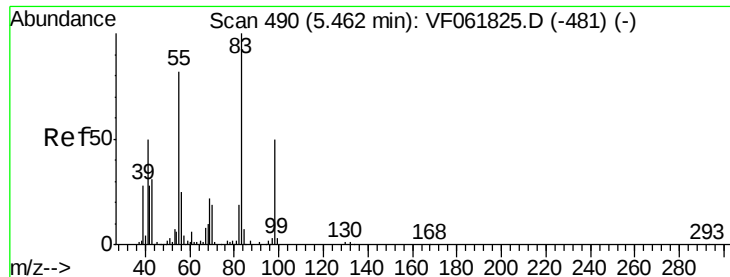
Tot Ion: 43 Resp: 6500
Ion Ratio Lower Upper
43 100
61 78.8 60.7 91.1
70 0.0 10.6 15.8#



#38
Carbon Tetrachloride
Concen: 2.788 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 117 Resp: 8978
Ion Ratio Lower Upper
117 100
119 70.2 76.6 114.8#
121 30.3 24.4 36.6

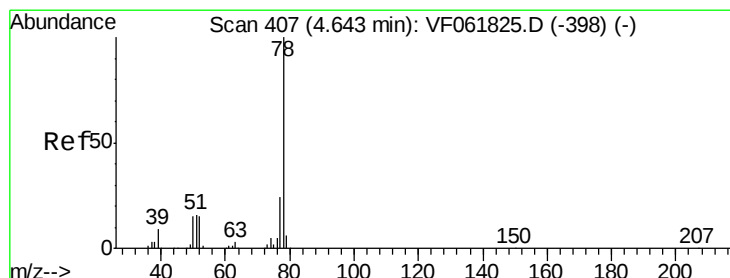
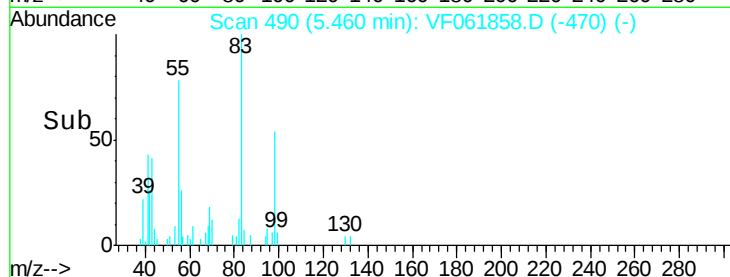
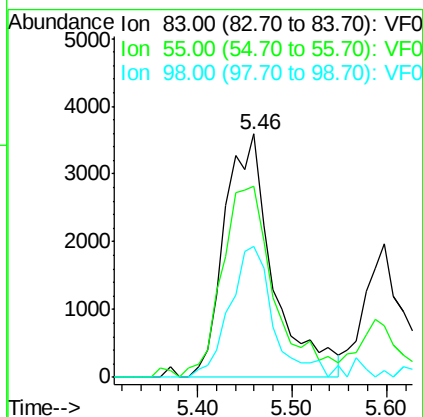
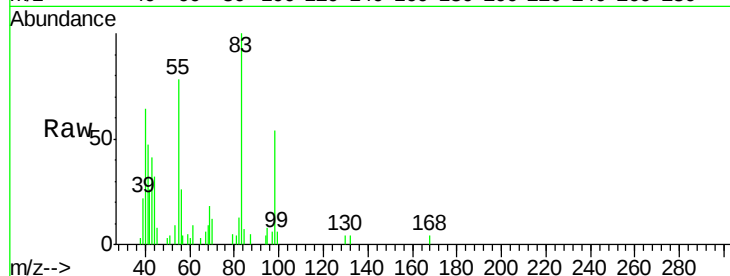




#39
Methvlcvclohexane
Concen: 2.375 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

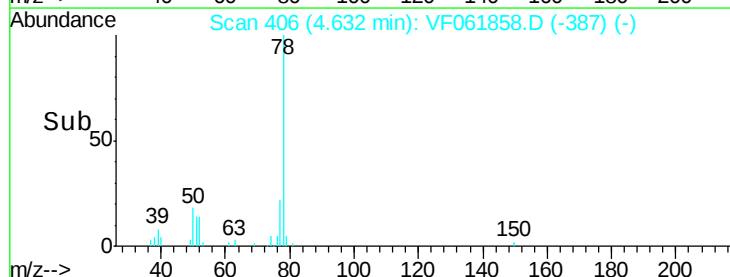
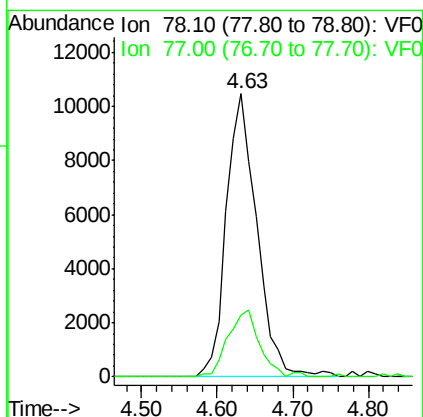
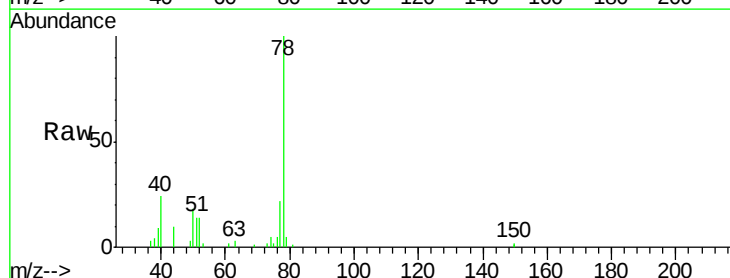
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

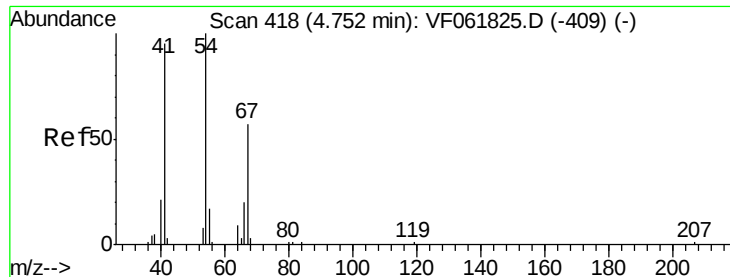
Tot Ion: 83 Resp: 12765
Ion Ratio Lower Upper
83 100
55 78.4 66.0 99.0
98 53.9 39.8 59.6



#40
Benzene
Concen: 2.470 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 78 Resp: 29379
Ion Ratio Lower Upper
78 100
77 22.0 19.5 29.3

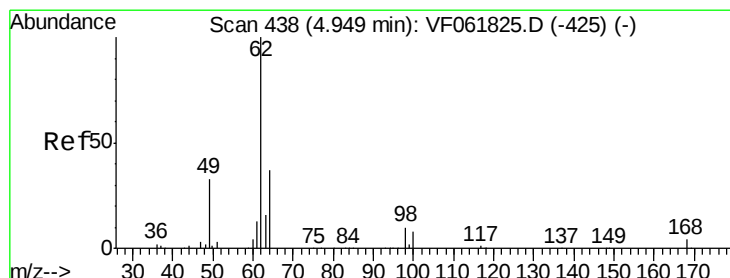
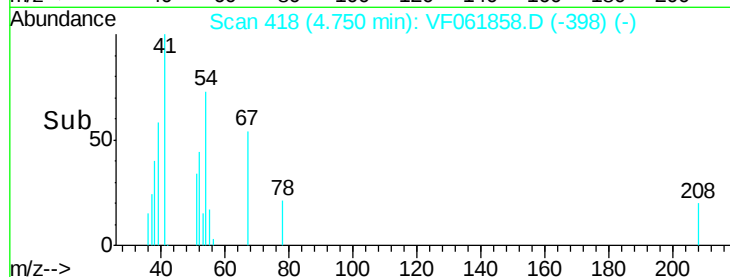
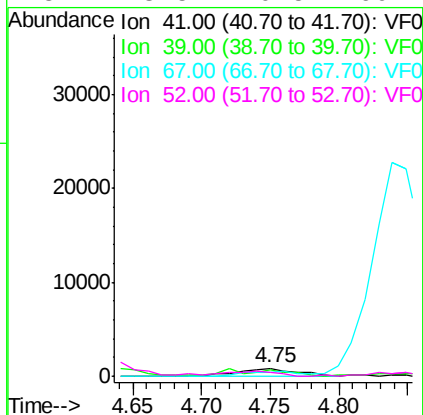
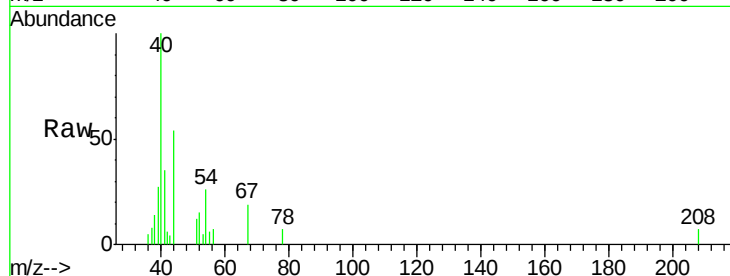




#41
Methacrylonitrile
Concen: 2.344 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

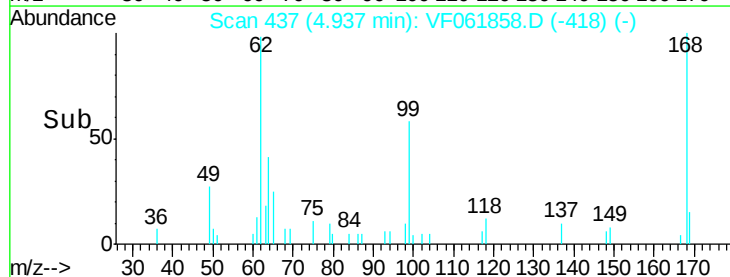
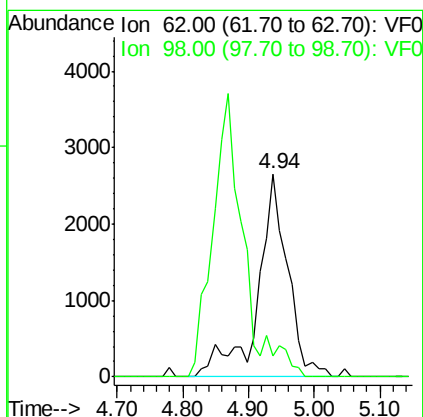
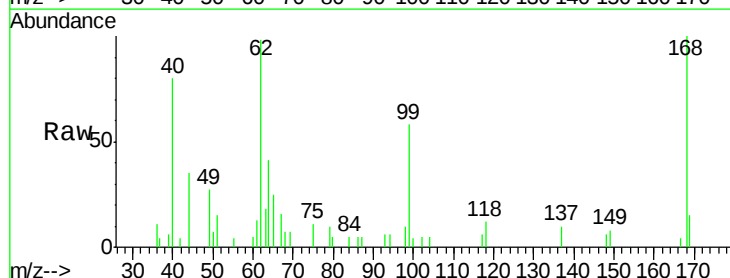
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

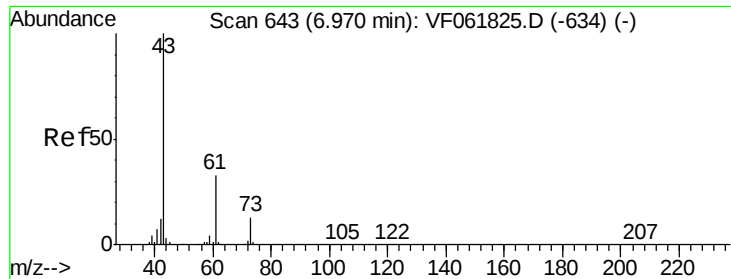
Tot Ion:	41	Resp:	2452
Ion	Ratio	Lower	Upper
41	100		
39	77.7	43.0	64.6#
67	53.9	47.8	71.8
52	43.5	40.5	60.7



#42
1,2-Dichloroethane
Concen: 2.846 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion:	62	Resp:	8436
Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	21.0





#43

Isopropyl Acetate

Concen: 2.478 ug/l

RT: 6.97 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

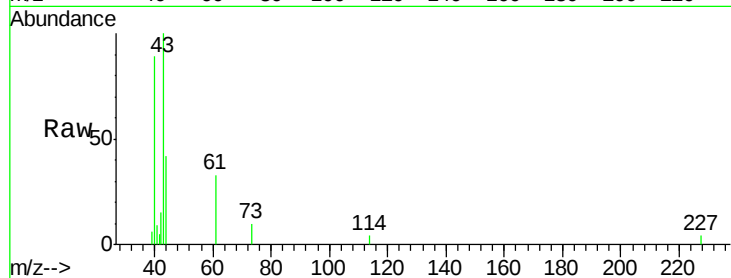
Tot Ion: 43 Resp: 5832

Ion Ratio Lower Upper

43 100

61 32.6 26.1 39.1

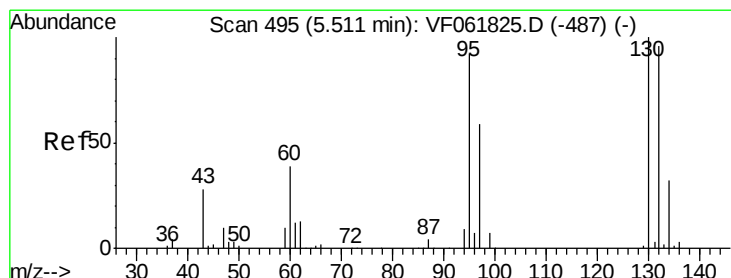
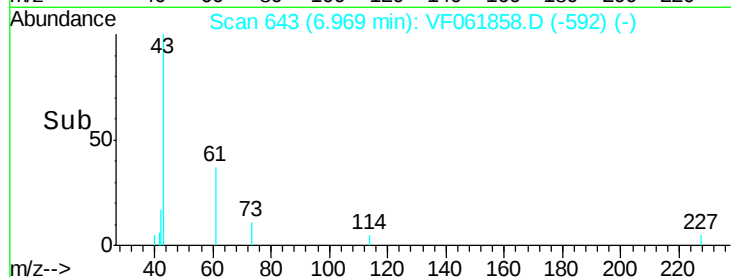
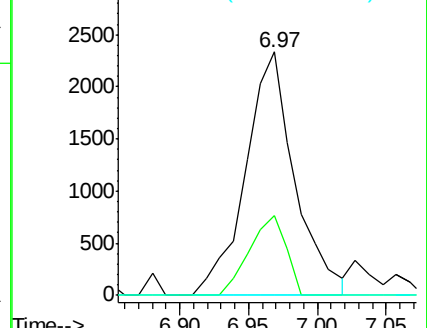
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 2.567 ug/l

RT: 5.51 min Scan# 495

Delta R.T. -0.00 min

Lab File: VF061858.D

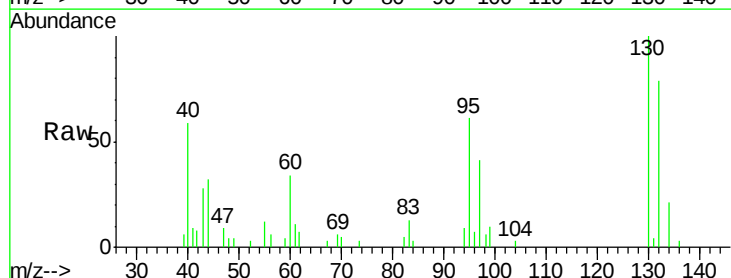
Acq: 5 Mar 2019 21:24

Tgt Ion: 130 Resp: 9488

Ion Ratio Lower Upper

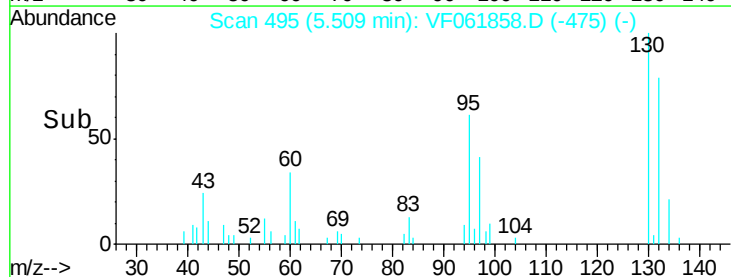
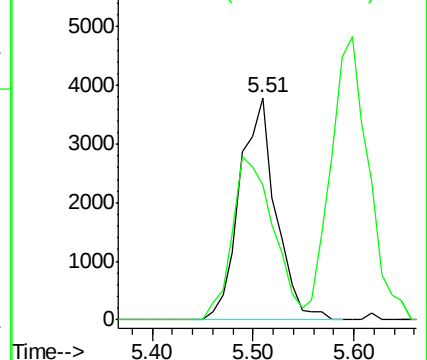
130 100

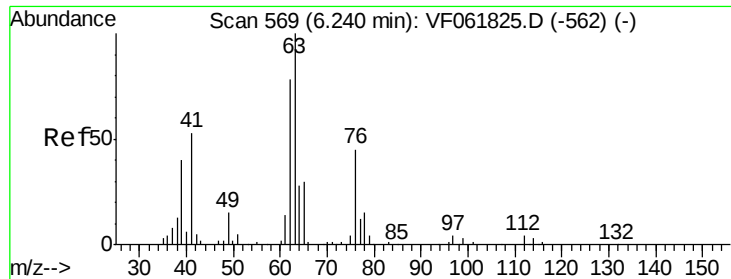
95 60.7 0.0 184.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 2.261 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

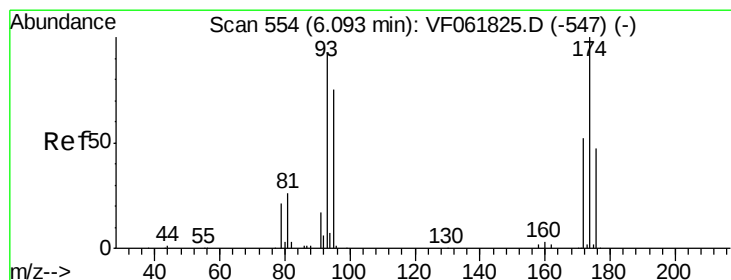
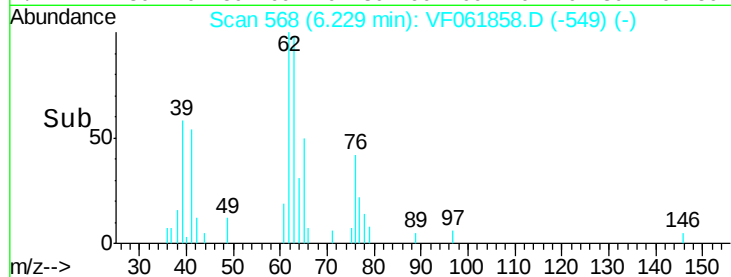
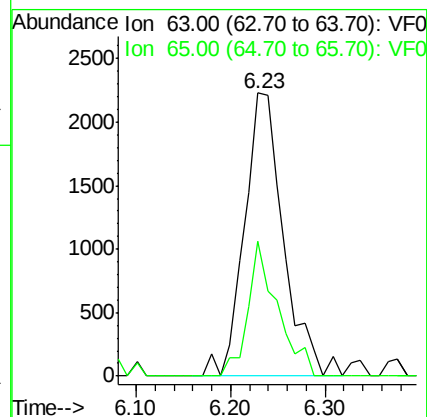
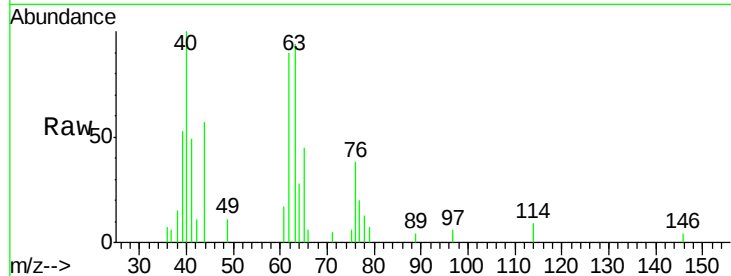
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 63 Resp: 6393

Ion Ratio Lower Upper

63 100

65 47.9 24.0 36.0#



#46

Dibromomethane

Concen: 2.350 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

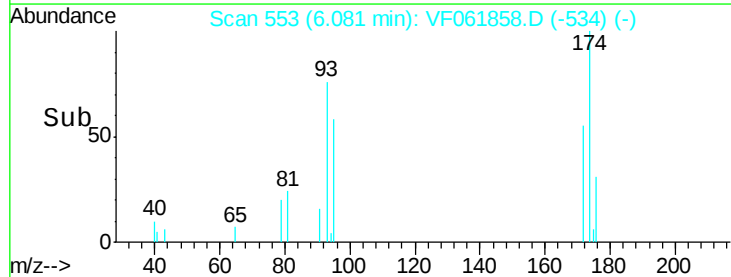
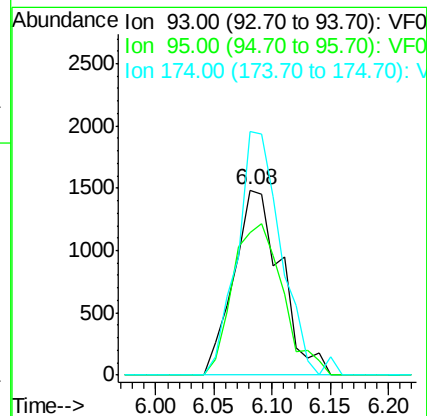
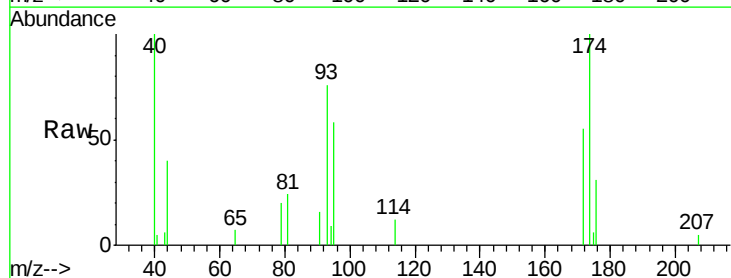
Tgt Ion: 93 Resp: 4182

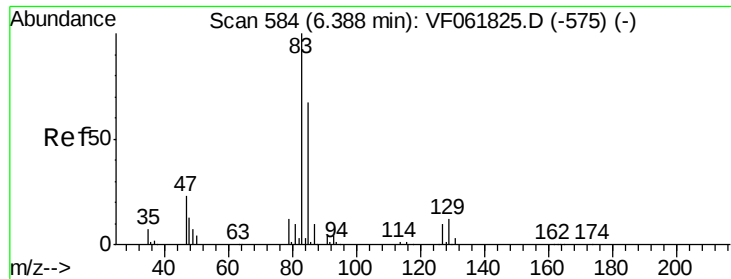
Ion Ratio Lower Upper

93 100

95 76.8 64.4 96.6

174 131.6 85.8 128.6#





#47

Bromodichloromethane

Concen: 2.582 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

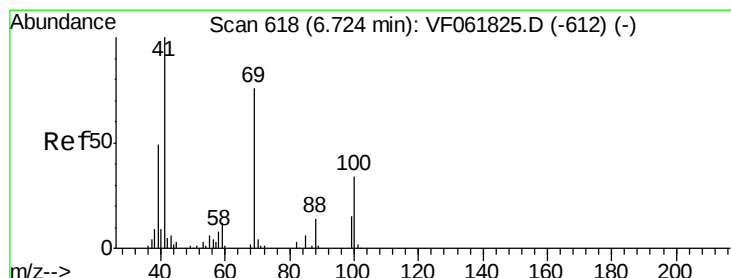
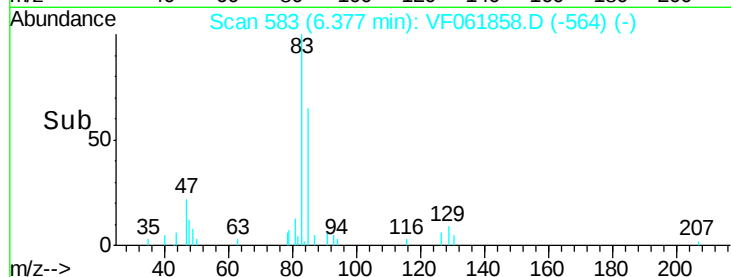
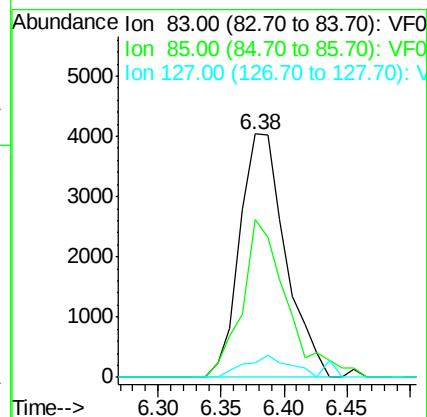
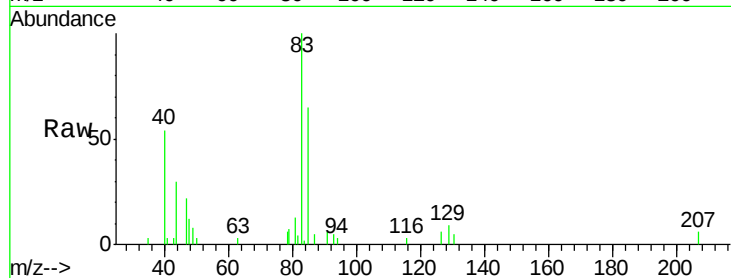
Tot Ion: 83 Resp: 10154

Ion Ratio Lower Upper

83 100

85 65.0 53.6 80.4

127 6.2 8.1 12.1#



#48

Methyl methacrylate

Concen: 2.693 ug/l

RT: 6.72 min Scan# 618

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

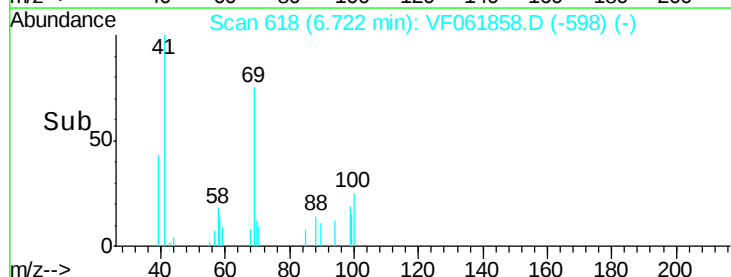
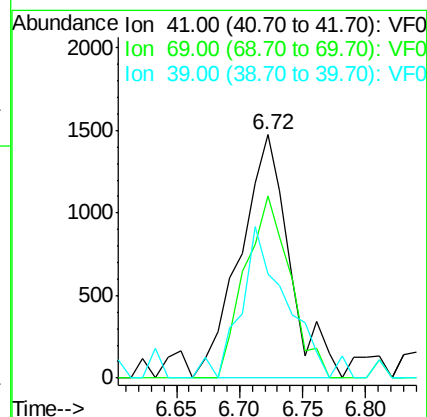
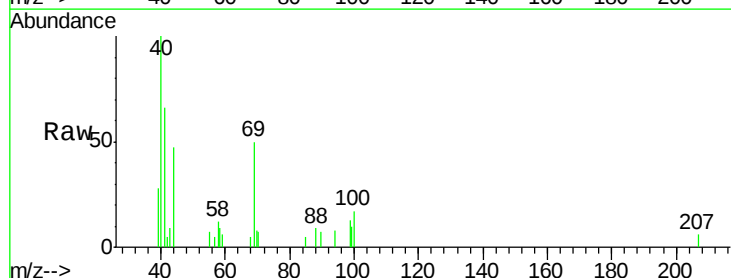
Tgt Ion: 41 Resp: 4012

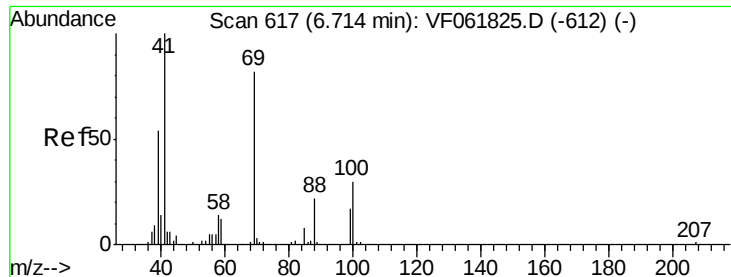
Ion Ratio Lower Upper

41 100

69 74.9 60.4 90.6

39 42.6 39.7 59.5





#49

1,4-Dioxane

Concen: 44.718 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

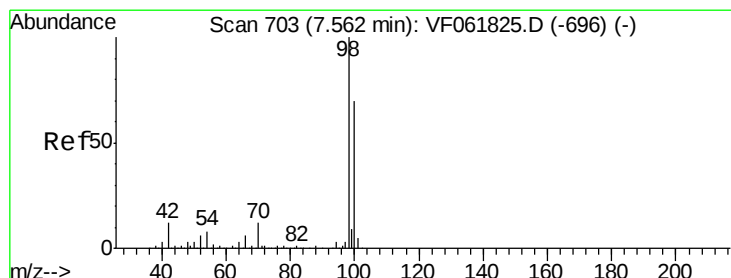
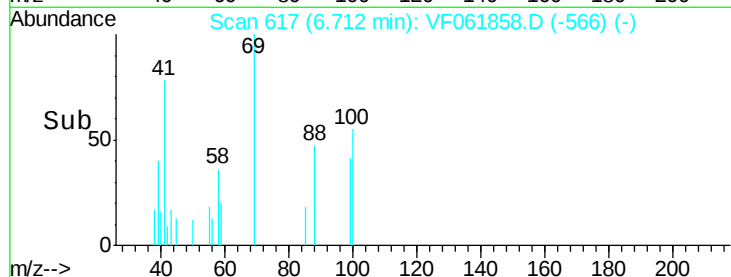
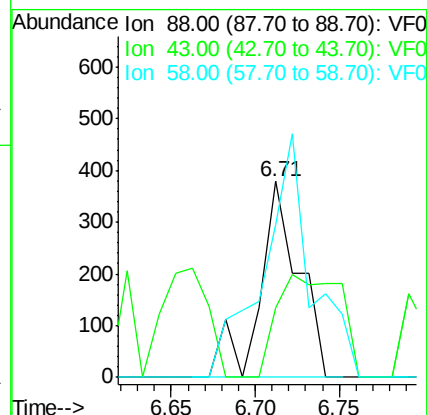
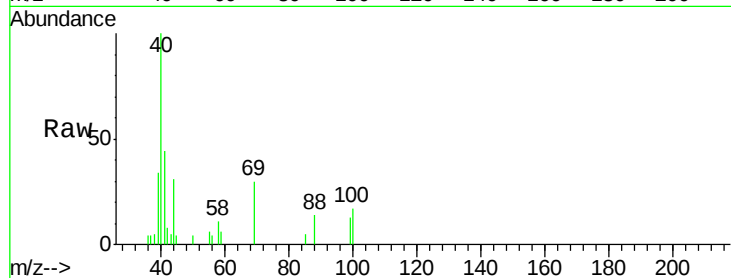
Tot Ion: 88 Resp: 609

Ion Ratio Lower Upper

88 100

43 35.4 28.4 42.6

58 77.8 50.7 76.1#



#50

Toluene-d8

Concen: 47.444 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061858.D

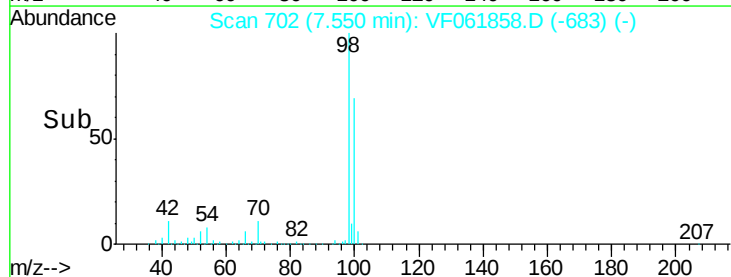
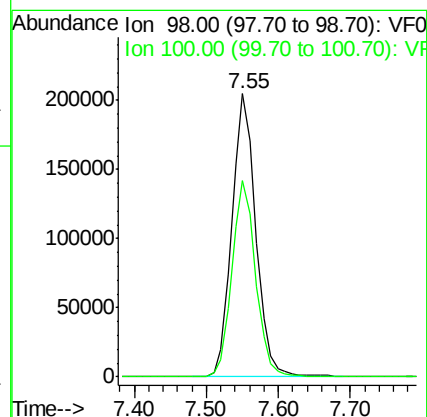
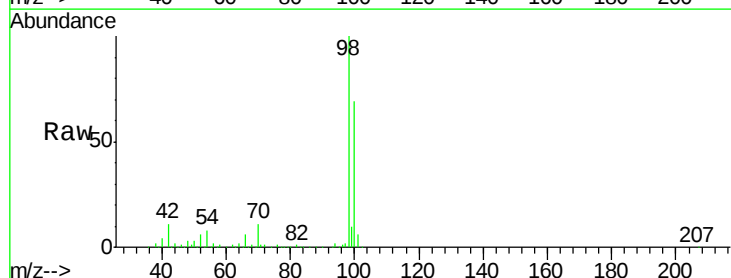
Acq: 5 Mar 2019 21:24

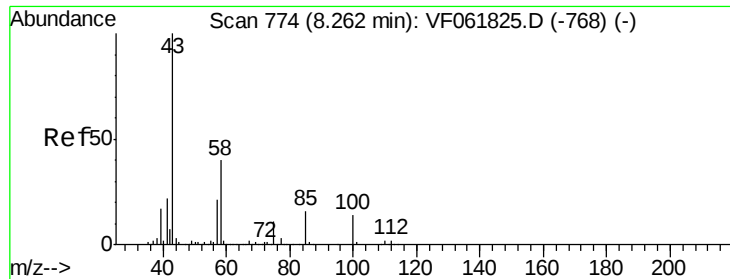
Tgt Ion: 98 Resp: 473997

Ion Ratio Lower Upper

98 100

100 69.3 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 13.520 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

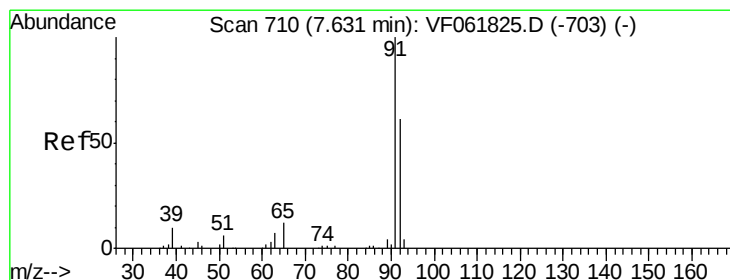
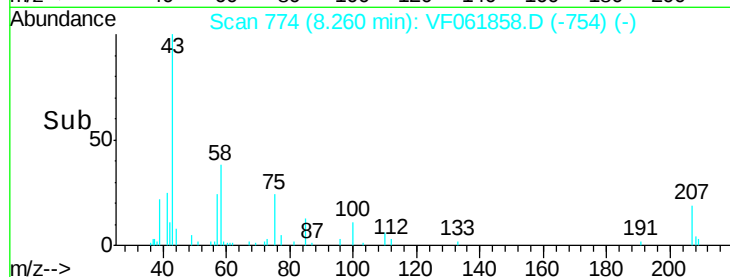
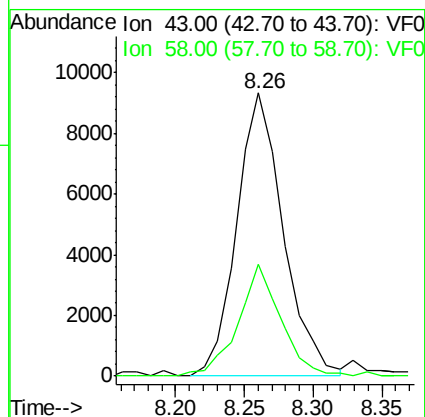
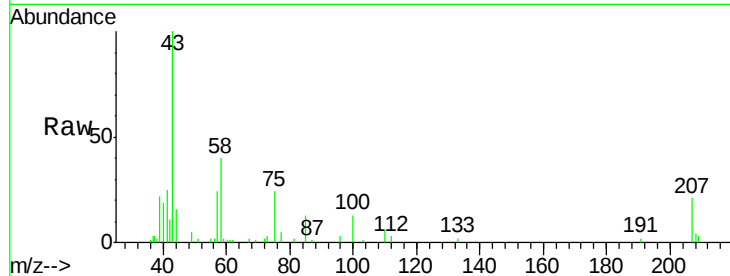
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 21996

Ion Ratio Lower Upper

43 100

58 39.5 31.8 47.8



#52

Toluene

Concen: 2.344 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061858.D

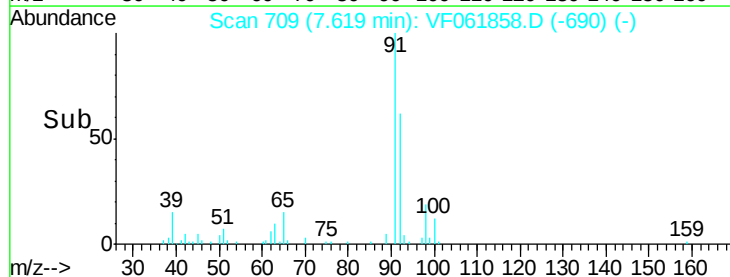
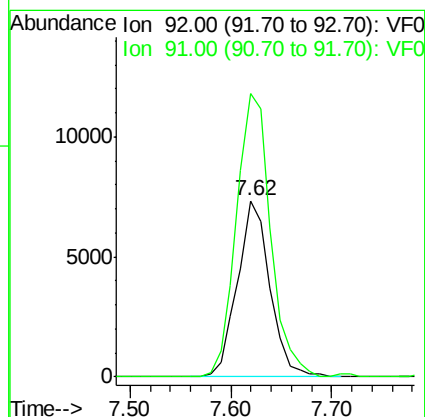
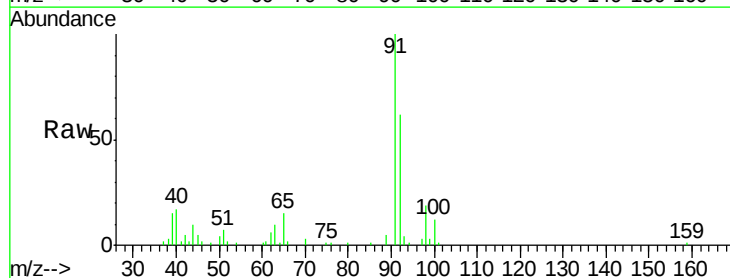
Acq: 5 Mar 2019 21:24

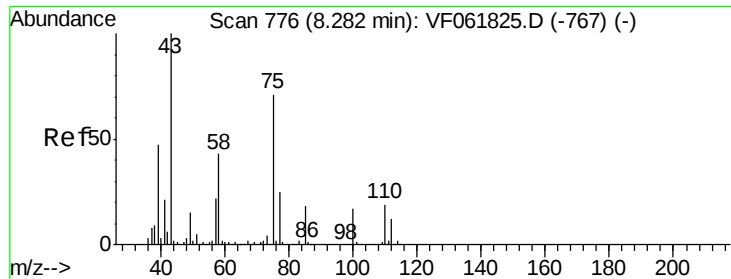
Tgt Ion: 92 Resp: 16489

Ion Ratio Lower Upper

92 100

91 160.5 132.0 198.0





#53

t-1,3-Dichloropropene

Concen: 2.829 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

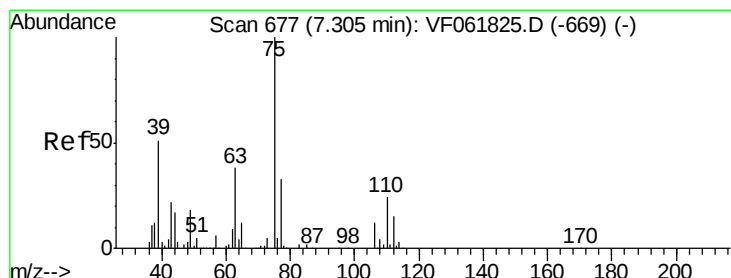
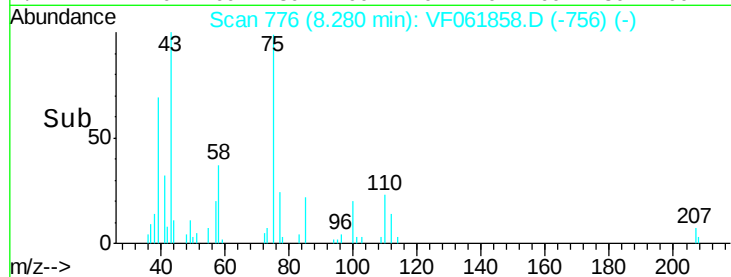
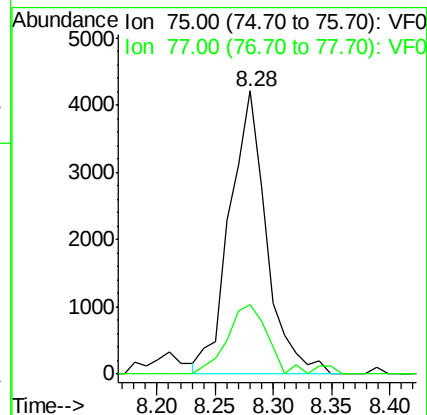
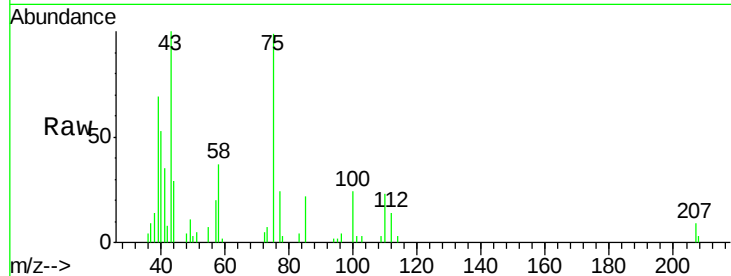
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 75 Resp: 9183

Ion Ratio Lower Upper

75 100

77 24.6 28.0 42.0#



#54

cis-1,3-Dichloropropene

Concen: 2.418 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

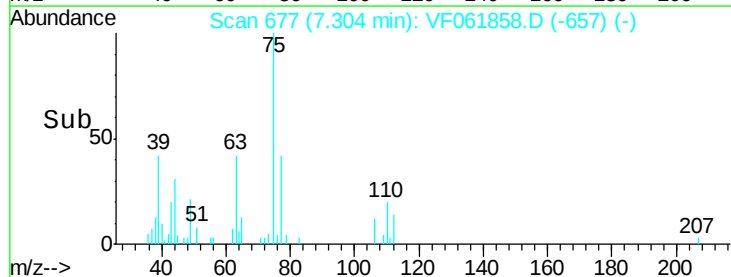
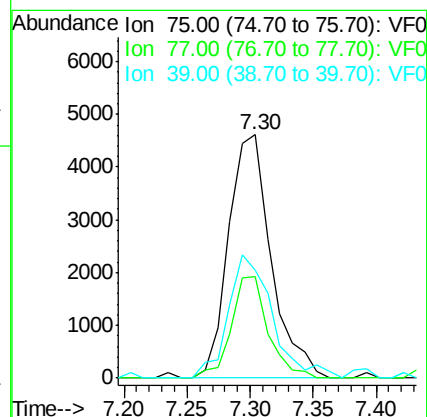
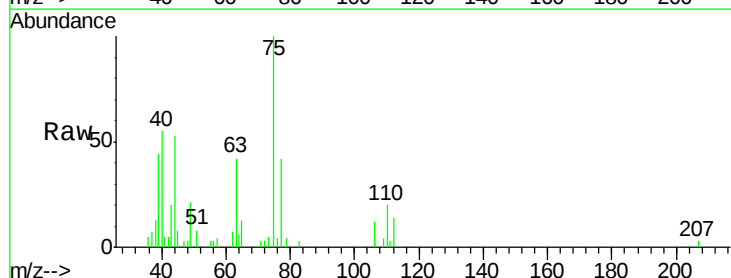
Tgt Ion: 75 Resp: 10823

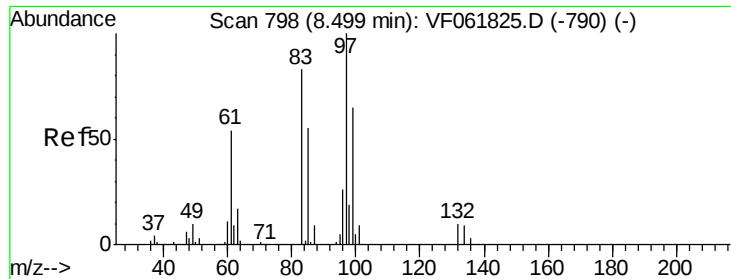
Ion Ratio Lower Upper

75 100

77 41.9 26.3 39.5#

39 44.3 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 2.361 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 97 Resp: 4785

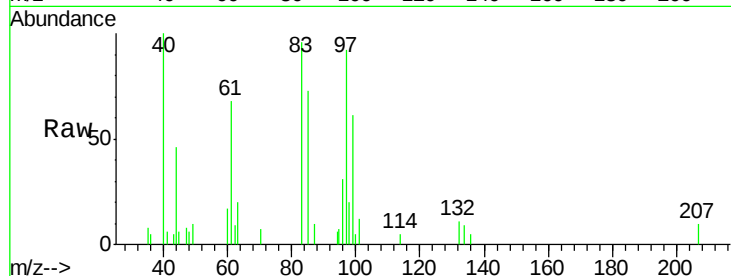
Ion Ratio Lower Upper

97 100

83 104.8 66.5 99.7#

85 79.2 44.2 66.2#

99 66.9 51.8 77.6

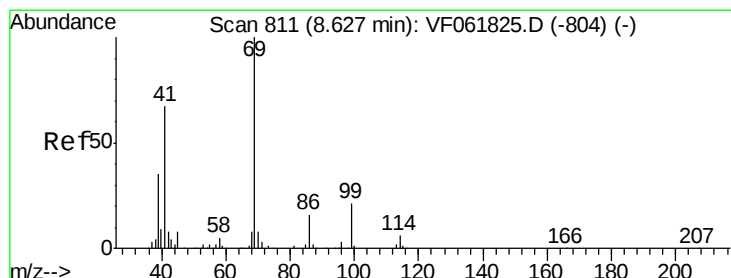
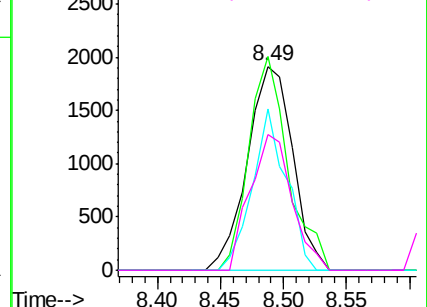
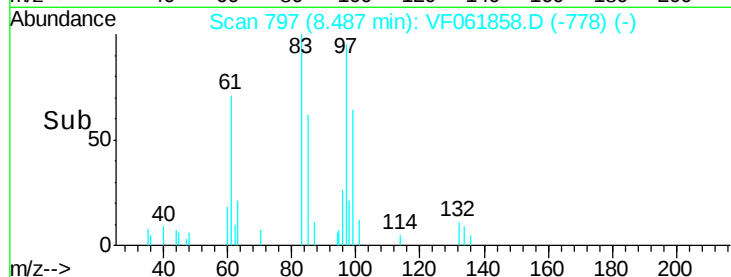


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 2.468 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

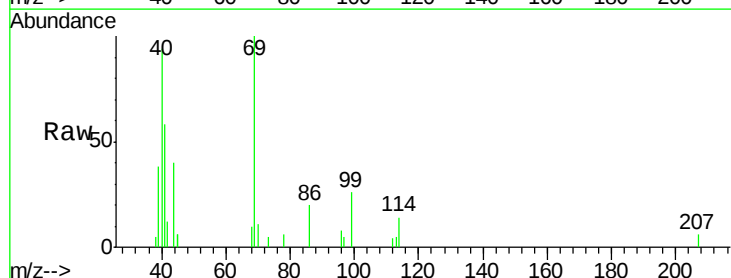
Tgt Ion: 69 Resp: 5638

Ion Ratio Lower Upper

69 100

41 58.2 53.9 80.9

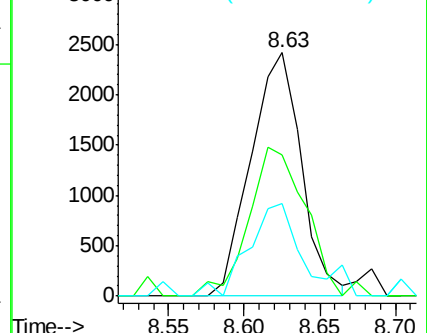
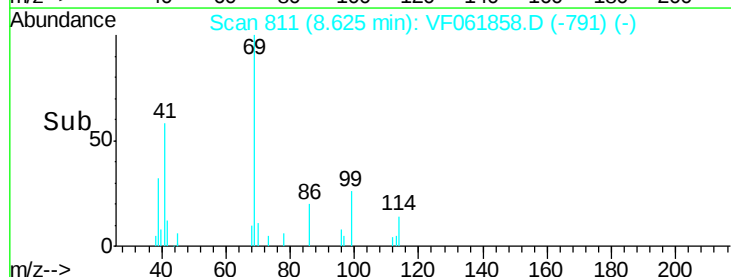
39 37.9 28.3 42.5

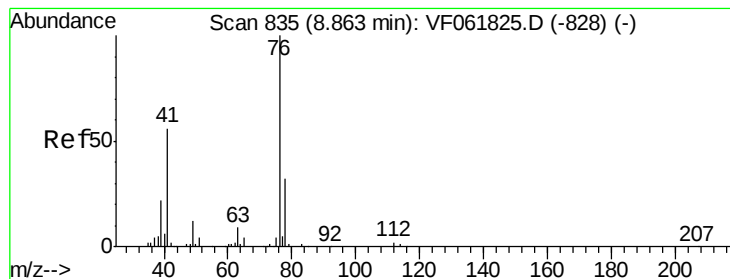


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 2.326 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

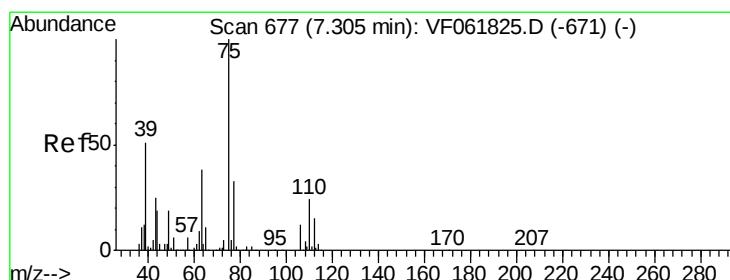
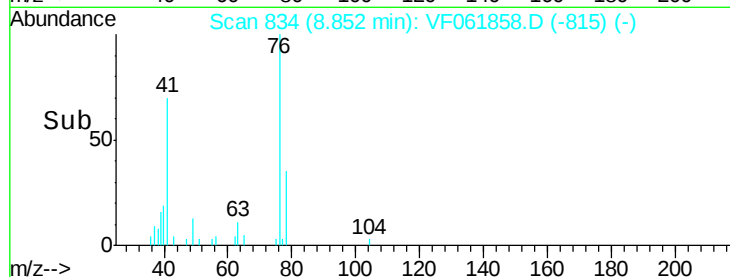
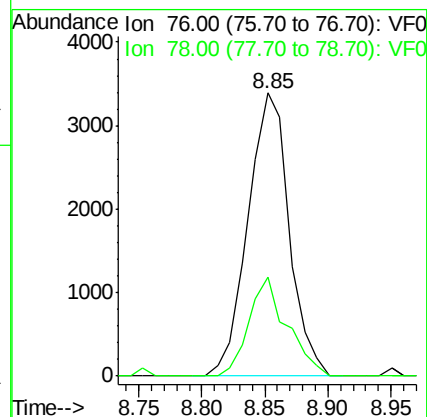
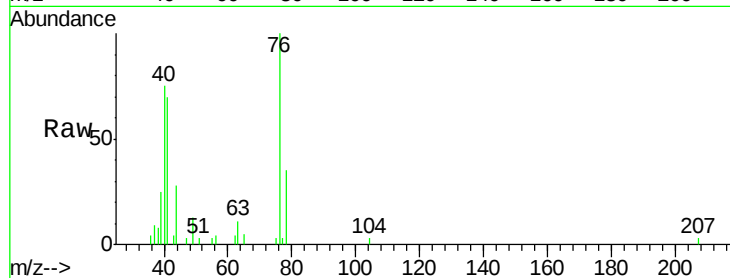
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 7712

Ion Ratio Lower Upper

76 100

78 34.9 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 12.082 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061858.D

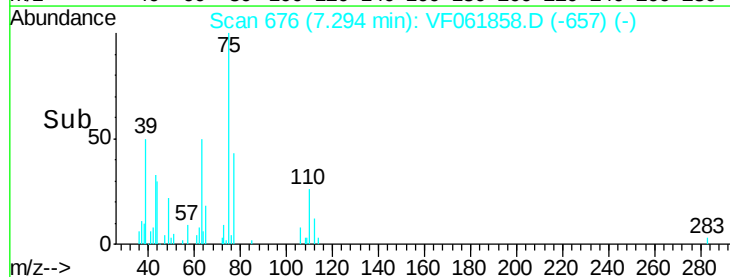
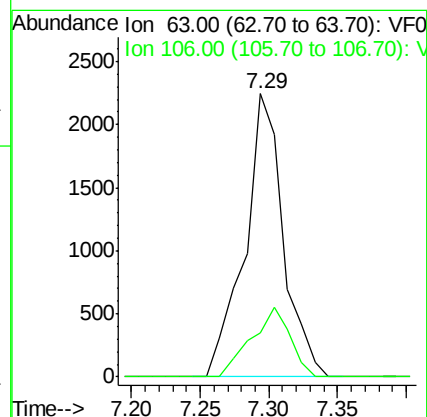
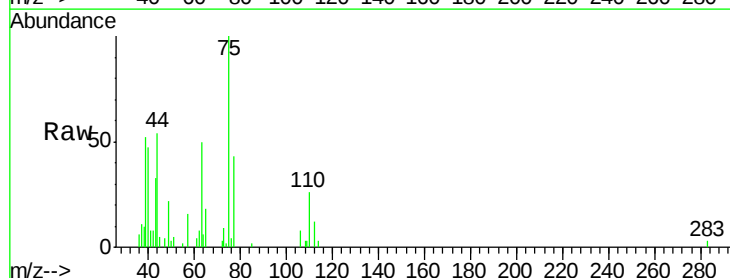
Acq: 5 Mar 2019 21:24

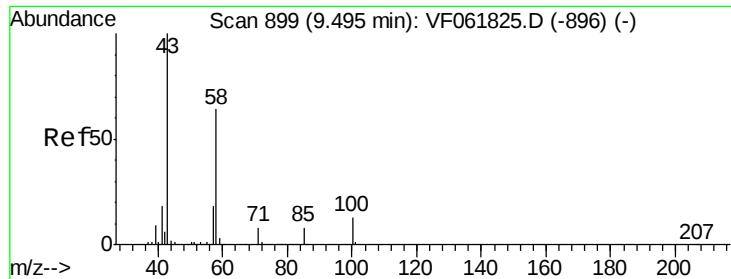
Tgt Ion: 63 Resp: 4366

Ion Ratio Lower Upper

63 100

106 15.6 24.3 36.5#

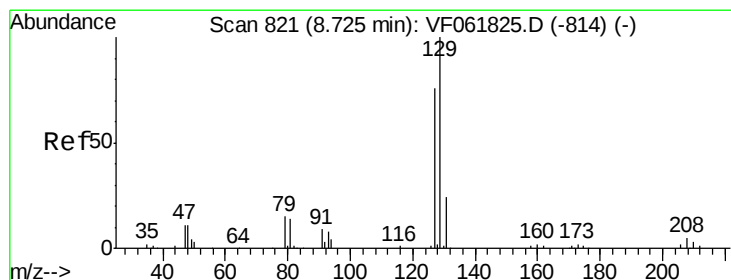
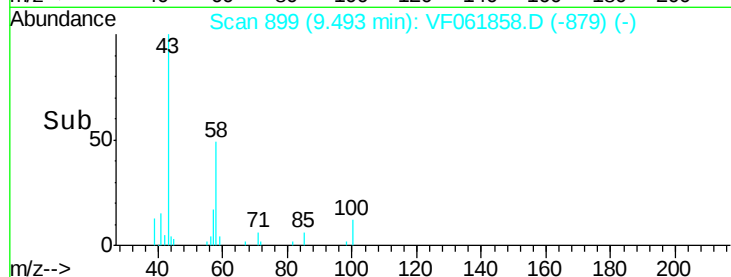
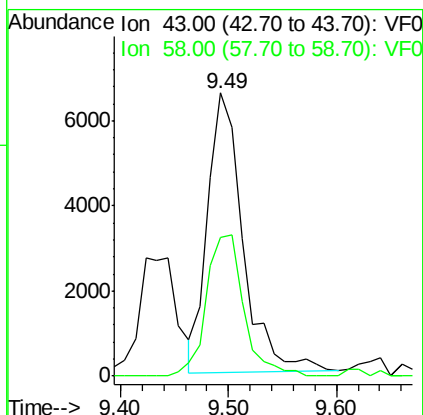
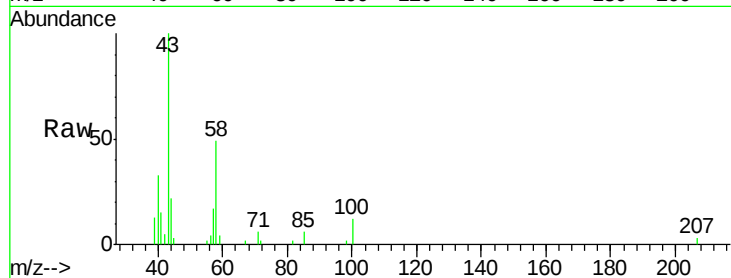




#59
2-Hexanone
Concen: 12.756 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

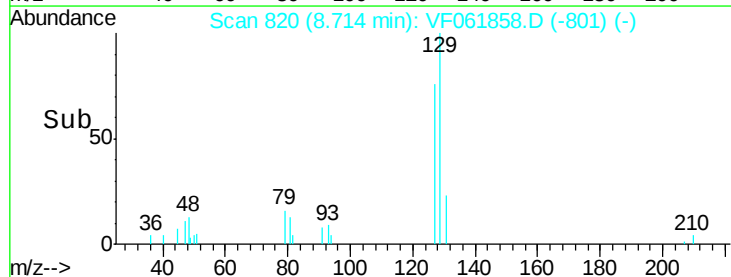
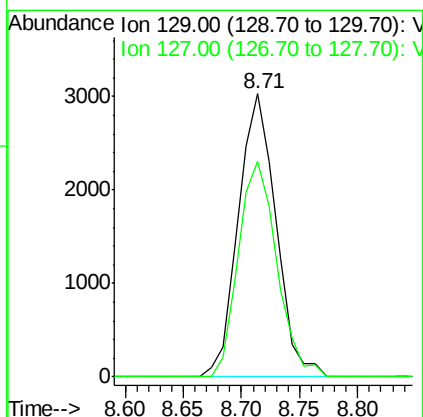
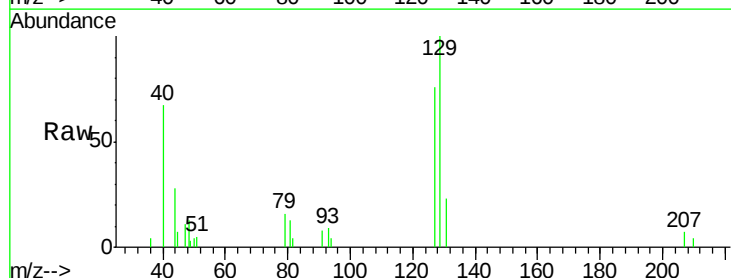
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

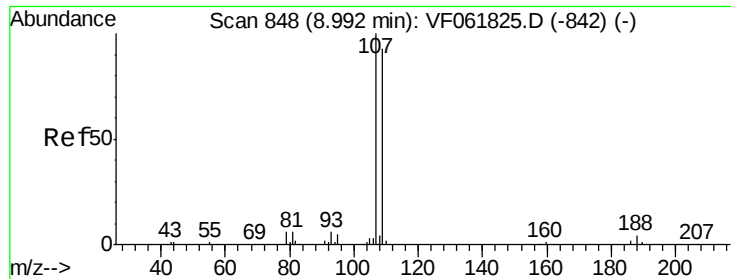
Tot Ion: 43 Resp: 14971
Ion Ratio Lower Upper
43 100
58 49.1 28.8 86.4



#60
Dibromochloromethane
Concen: 2.353 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 129 Resp: 6799
Ion Ratio Lower Upper
129 100
127 76.1 38.2 114.6





#61

1,2-Dibromoethane

Concen: 2.288 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

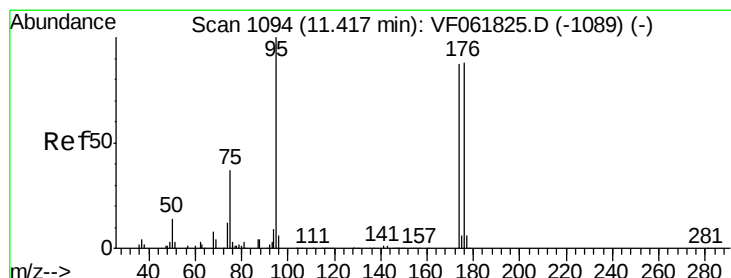
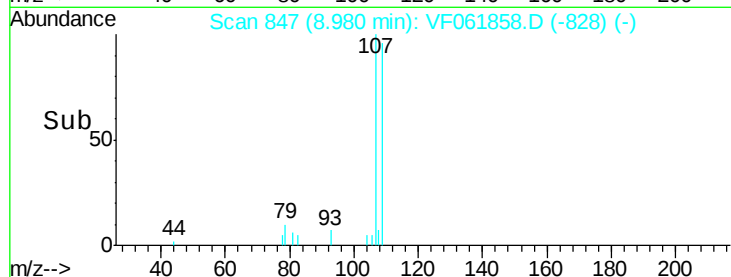
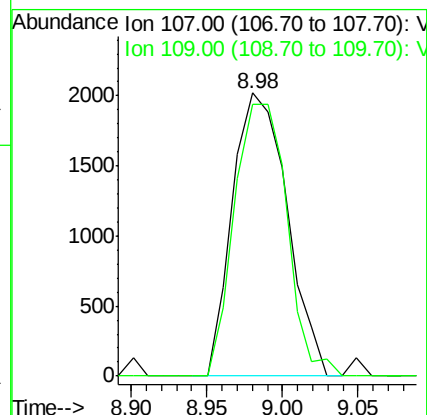
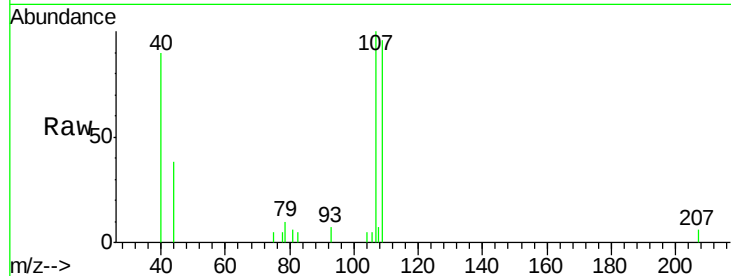
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:107 Resp: 5099

Ion Ratio Lower Upper

107 100

109 95.8 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 49.810 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

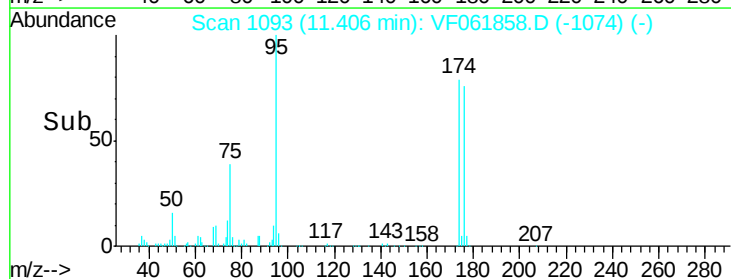
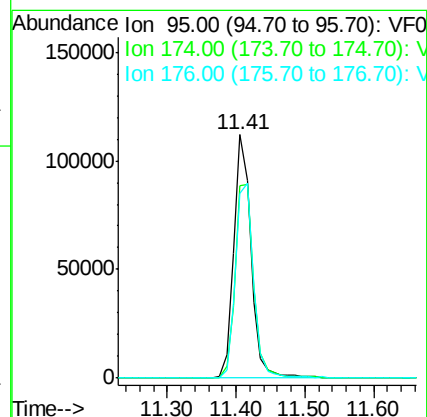
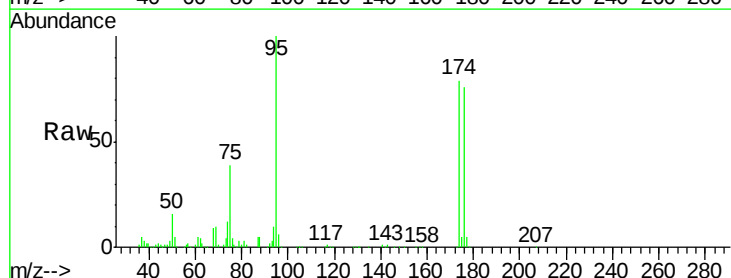
Tgt Ion: 95 Resp: 194936

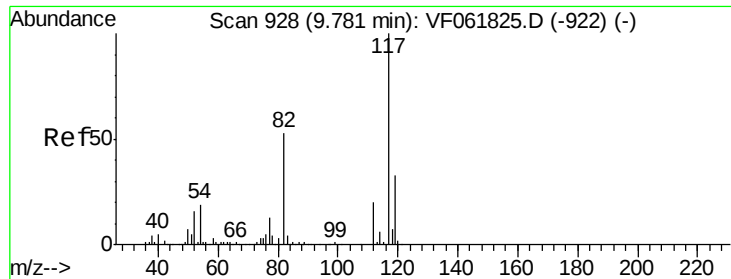
Ion Ratio Lower Upper

95 100

174 79.3 0.0 174.0

176 76.0 0.0 175.2

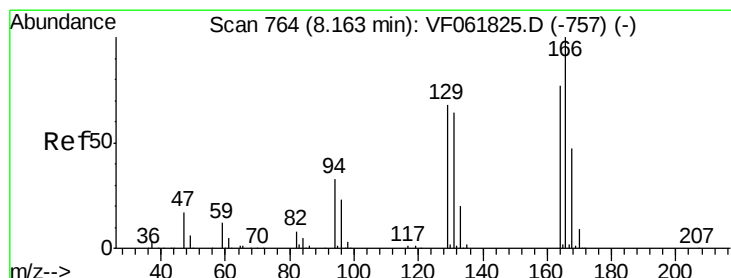
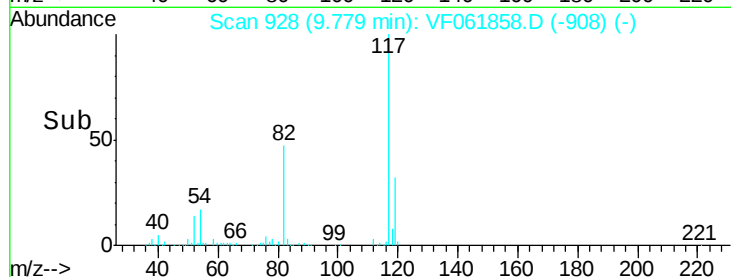
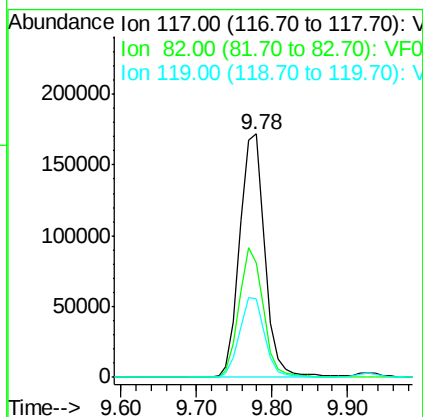
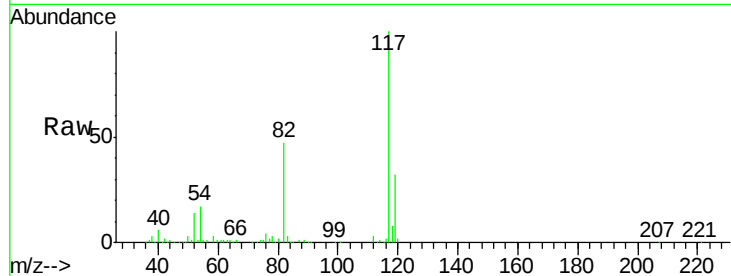




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

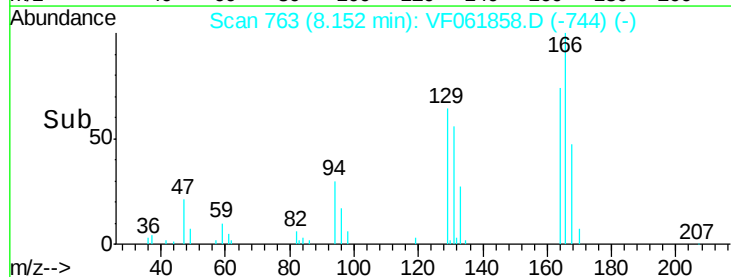
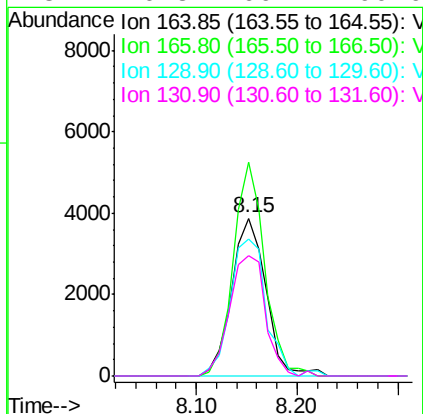
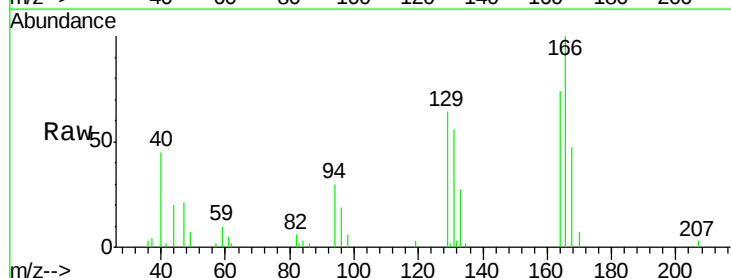
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

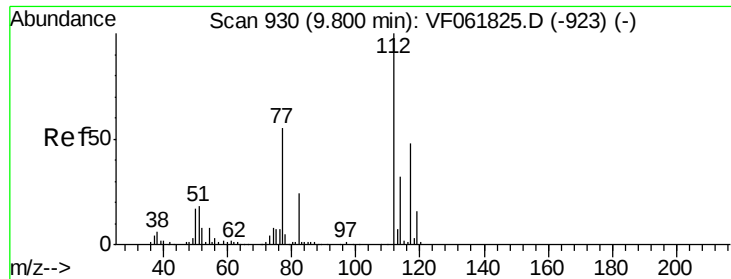
Tot Ion:117 Resp: 392934
Ion Ratio Lower Upper
117 100
82 46.8 42.6 63.8
119 32.1 26.0 39.0



#64
Tetrachloroethene
Concen: 3.042 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion:164 Resp: 9185
Ion Ratio Lower Upper
164 100
166 135.5 103.4 155.0
129 86.9 69.9 104.9
131 76.3 66.4 99.6

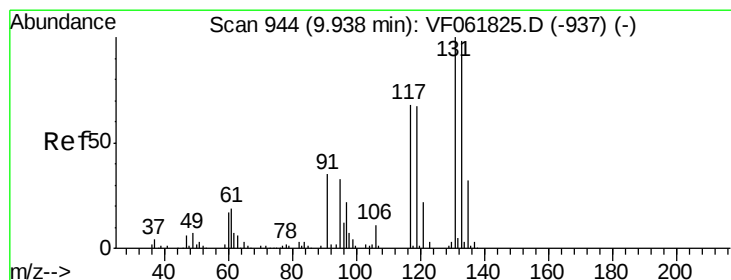
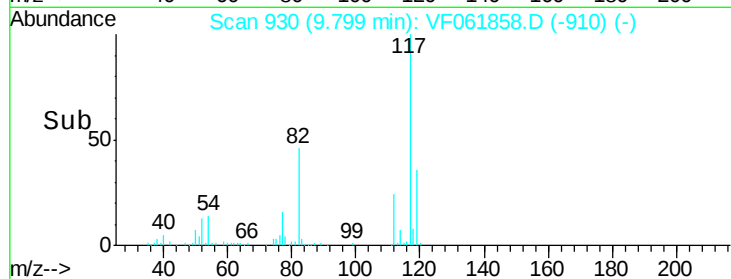
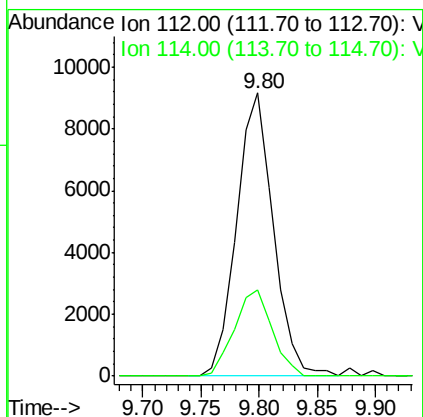
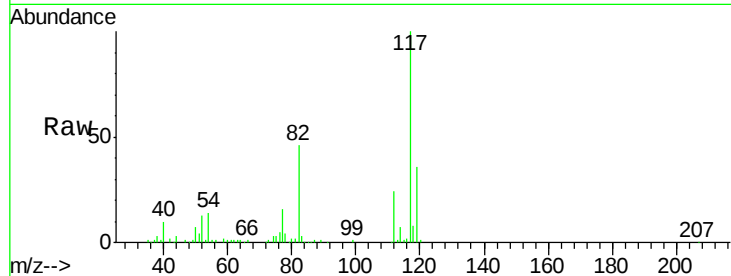




#65
Chlorobenzene
Concen: 2.645 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

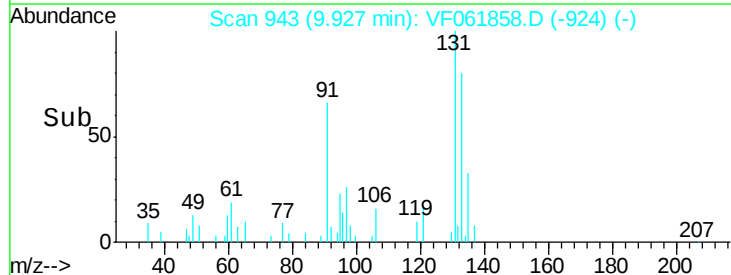
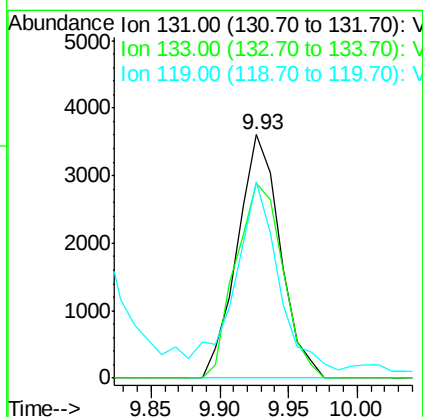
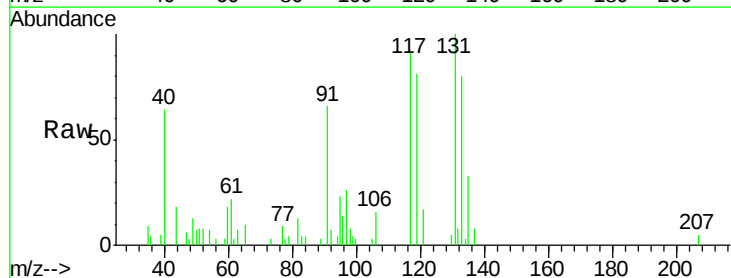
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

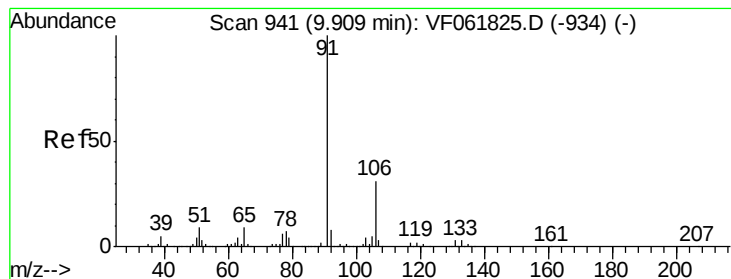
Tot Ion:112 Resp: 19965
Ion Ratio Lower Upper
112 100
114 30.6 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 2.685 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion:131 Resp: 7852
Ion Ratio Lower Upper
131 100
133 79.9 48.9 146.7
119 80.7 33.6 100.8





#67

Ethyl Benzene

Concen: 2.716 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

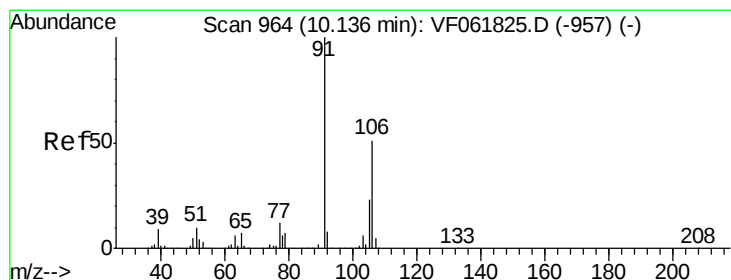
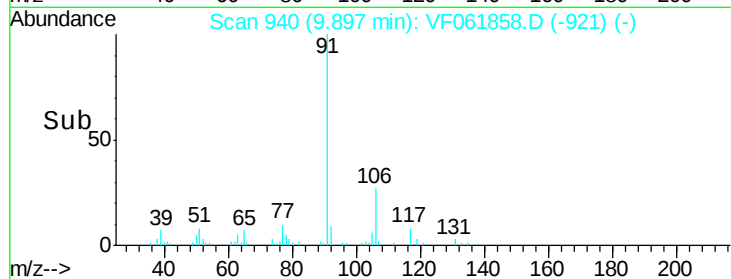
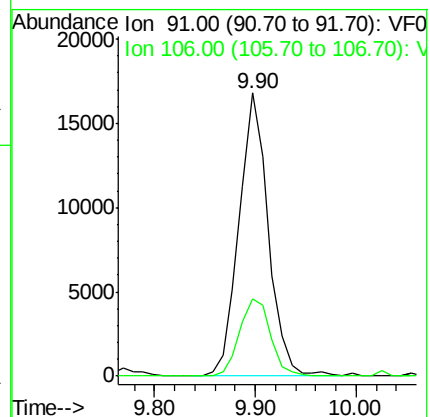
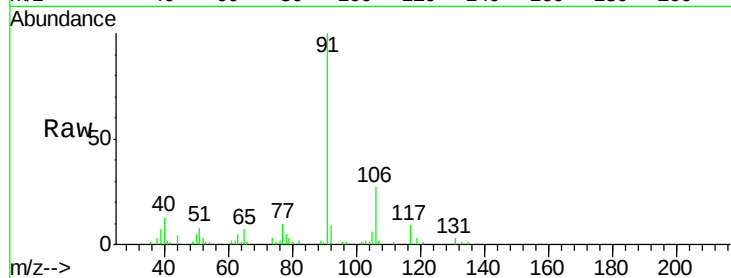
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 33982

Ion Ratio Lower Upper

91 100

106 27.3 25.0 37.4



#68

m/p-Xylenes

Concen: 5.145 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF061858.D

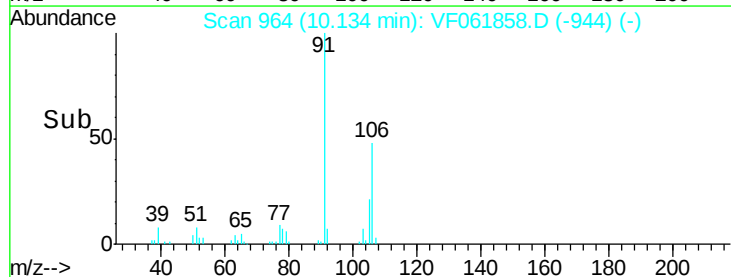
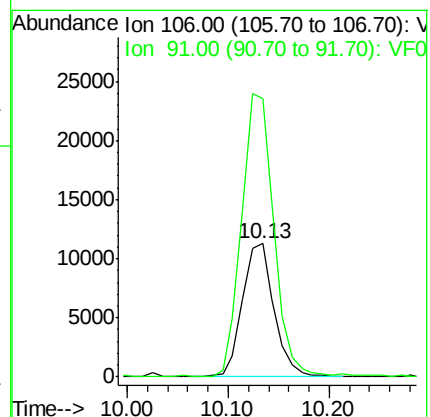
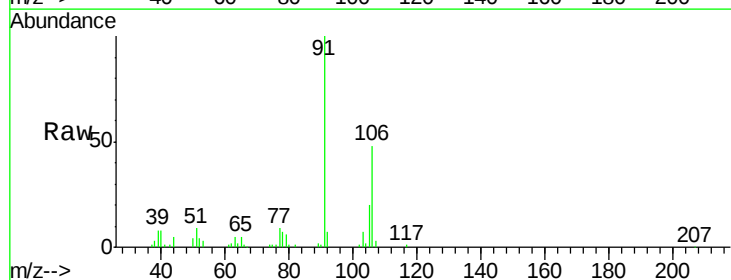
Acq: 5 Mar 2019 21:24

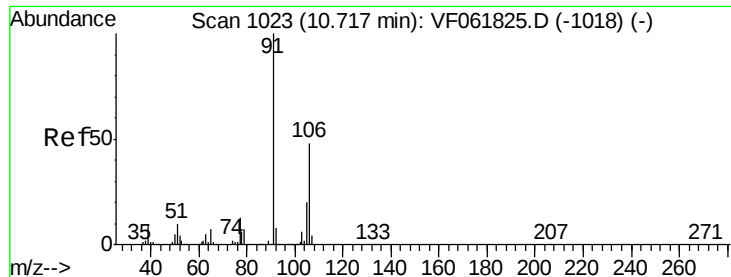
Tgt Ion: 106 Resp: 24663

Ion Ratio Lower Upper

106 100

91 208.7 157.5 236.3

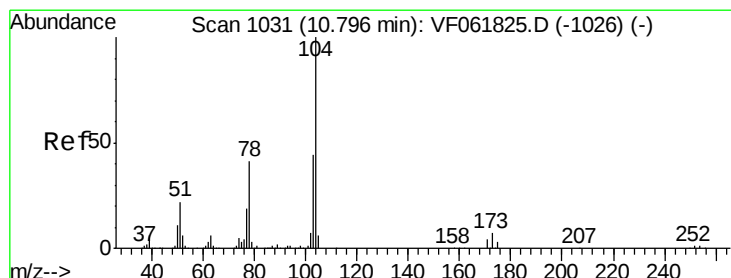
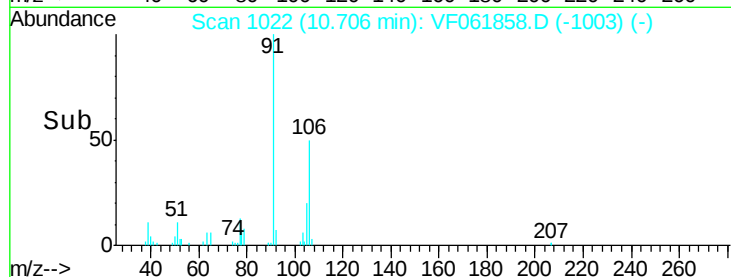
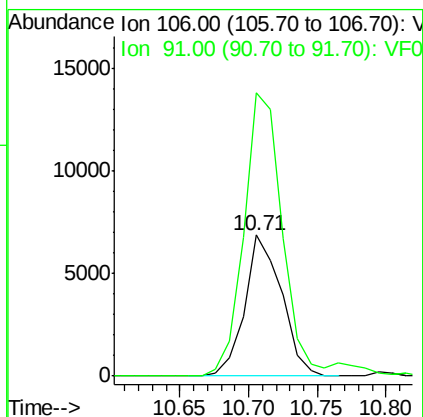
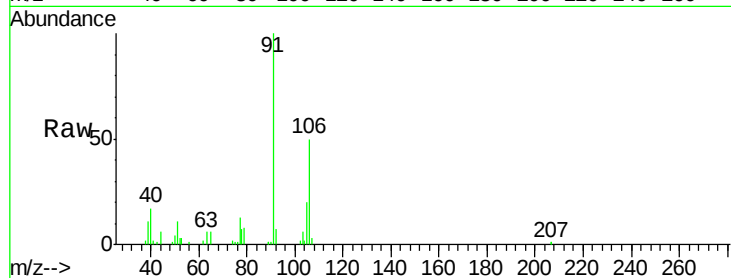




#69
o-Xylene
Concen: 2.481 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

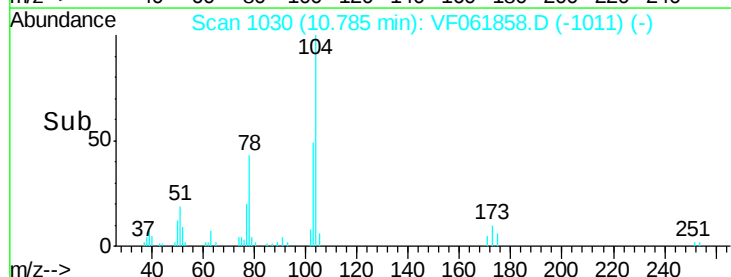
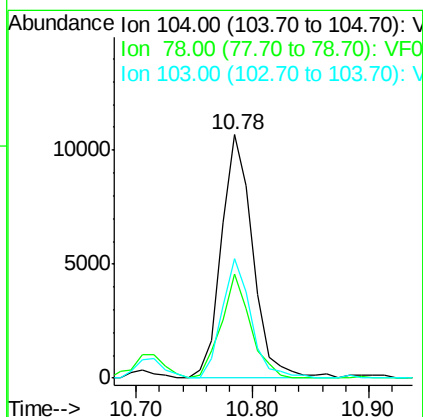
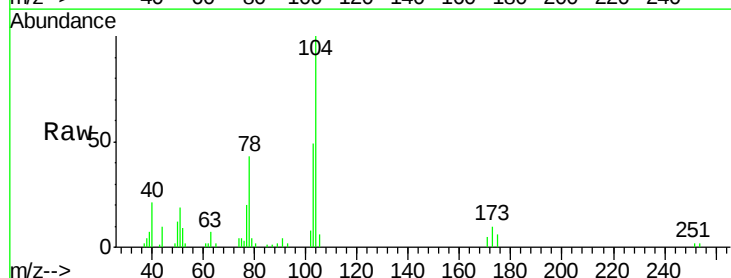
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

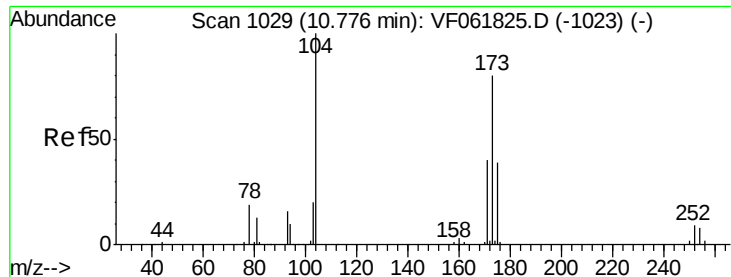
Tot Ion:106 Resp: 12805
Ion Ratio Lower Upper
106 100
91 200.6 103.5 310.3



#70
Styrene
Concen: 2.754 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion:104 Resp: 20008
Ion Ratio Lower Upper
104 100
78 42.7 33.3 49.9
103 48.9 35.4 53.0

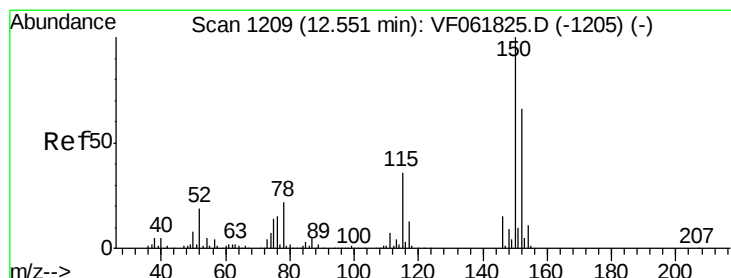
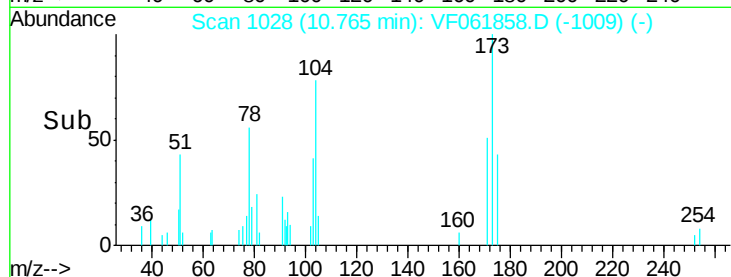
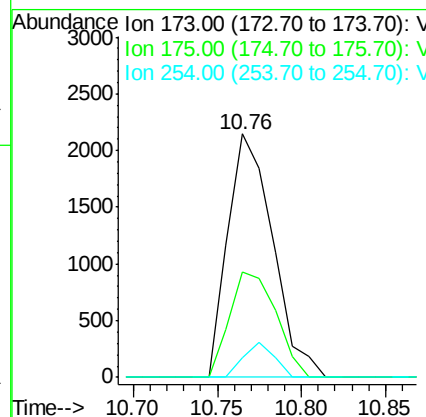
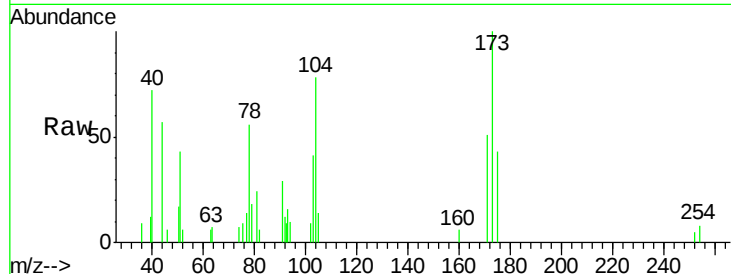




#71
Bromoform
Concen: 2.570 ug/l
RT: 10.76 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

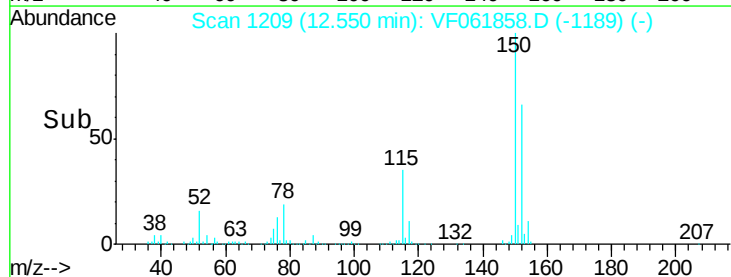
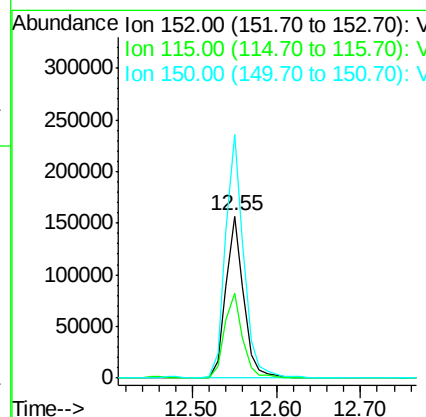
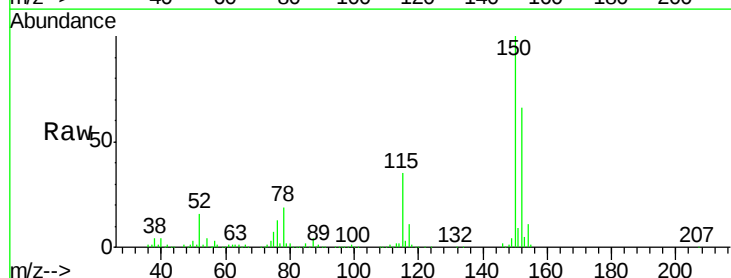
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

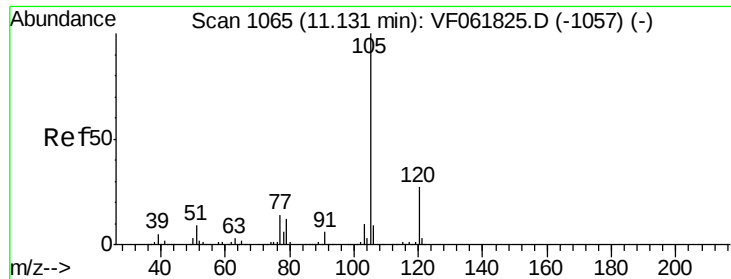
Tot Ion:173 Resp: 3973
Ion Ratio Lower Upper
173 100
175 43.2 24.5 73.5
254 8.1 8.0 12.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion:152 Resp: 231606
Ion Ratio Lower Upper
152 100
115 52.2 27.7 83.1
150 150.6 0.0 304.2





#73

Isopropylbenzene

Concen: 2.256 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

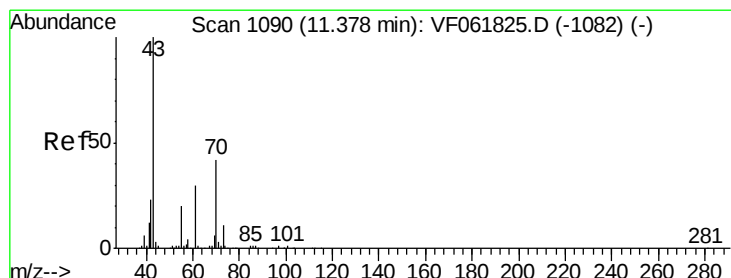
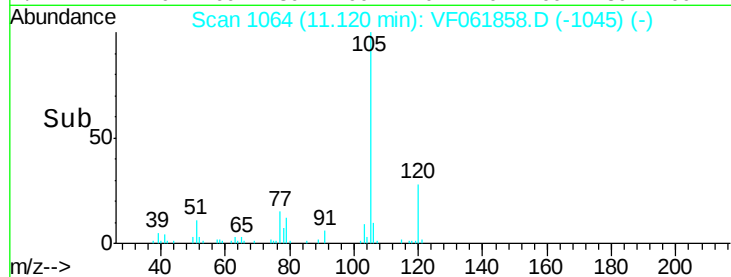
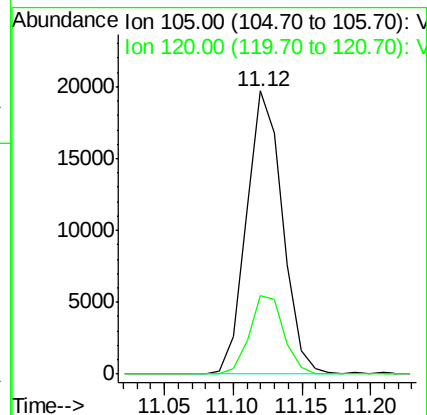
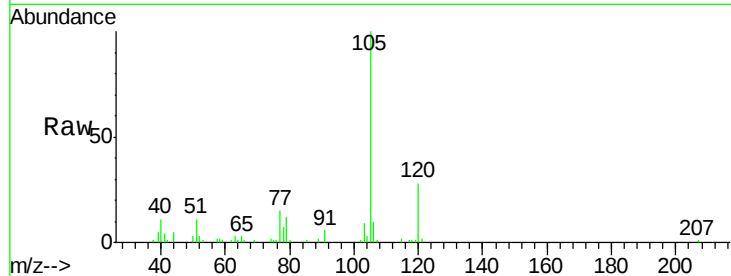
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:105 Resp: 35973

Ion Ratio Lower Upper

105 100

120 27.6 13.7 41.0



#74

N-ethyl acetate

Concen: 2.641 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion: 43 Resp: 9696

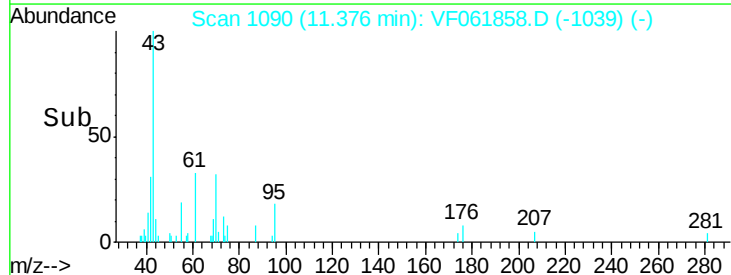
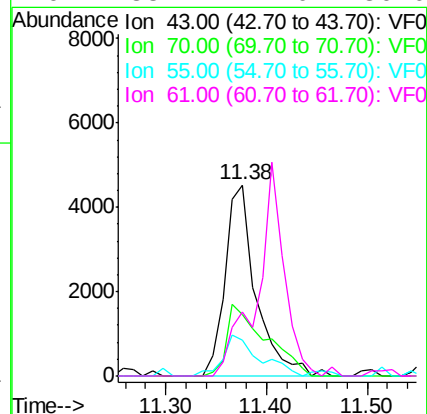
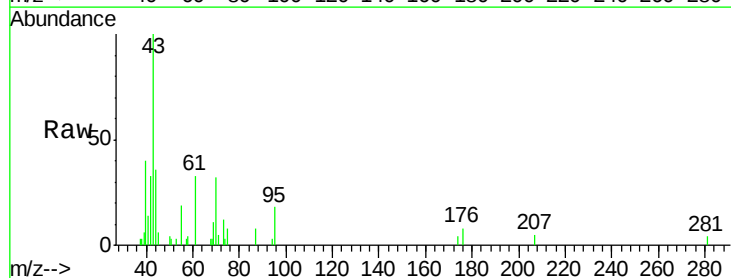
Ion Ratio Lower Upper

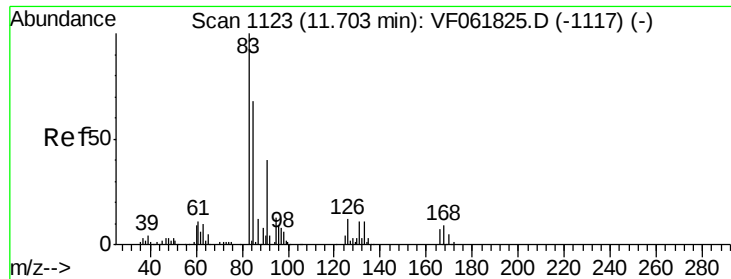
43 100

70 32.1 33.4 50.0#

55 18.8 16.3 24.5

61 33.2 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.643 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

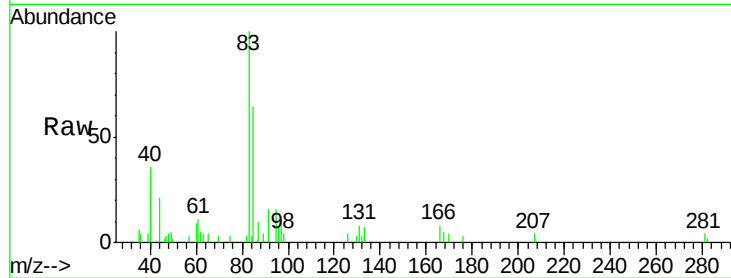
Tot Ion: 83 Resp: 7003

Ion Ratio Lower Upper

83 100

131 8.1 5.5 16.7

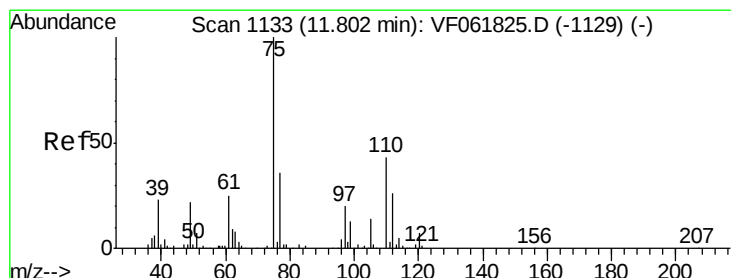
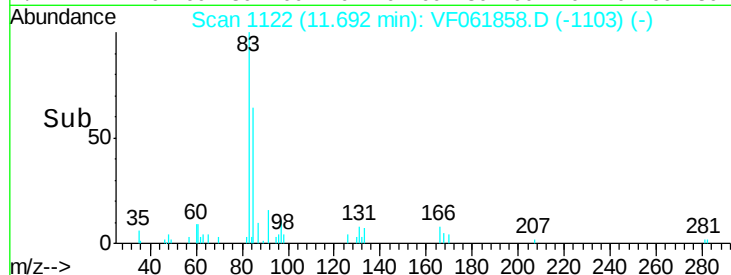
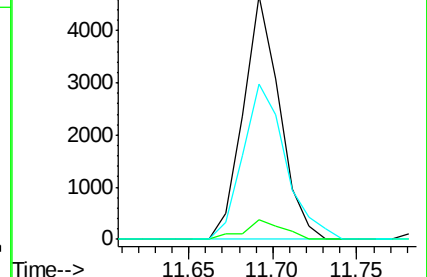
85 63.5 34.2 102.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 2.785 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF061858.D

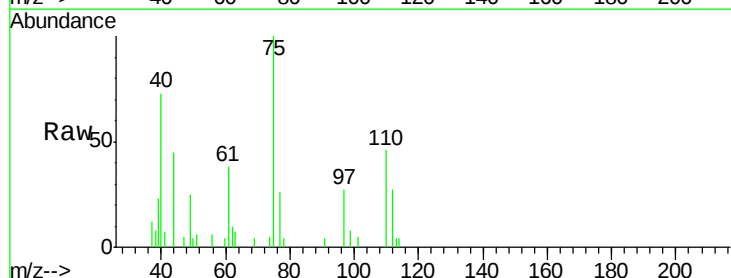
Acq: 5 Mar 2019 21:24

Tgt Ion: 75 Resp: 5038

Ion Ratio Lower Upper

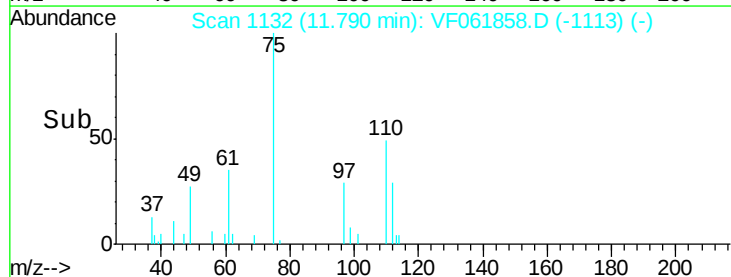
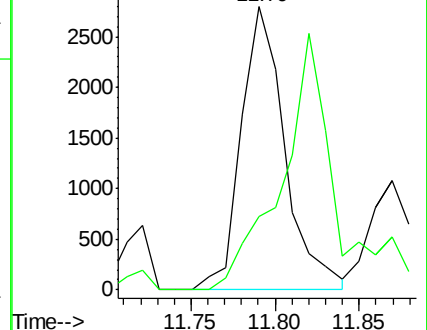
75 100

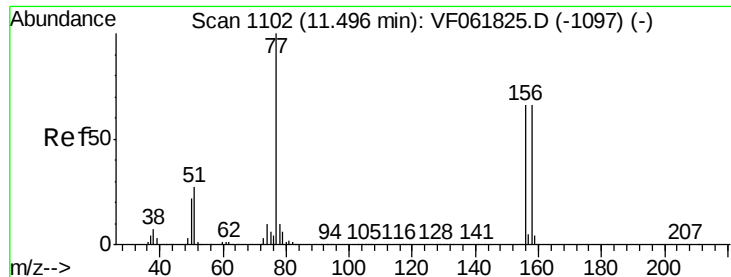
77 25.8 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 2.240 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

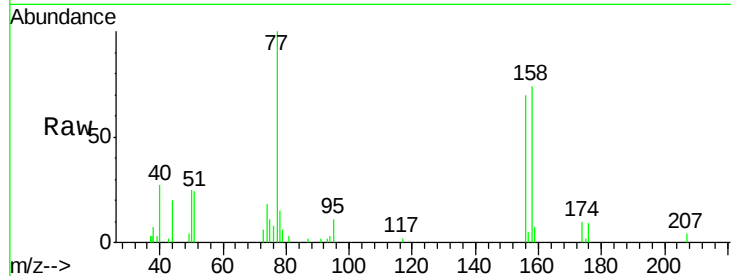
Tot Ion:156 Resp: 8594

Ion Ratio Lower Upper

156 100

77 143.5 75.7 227.1

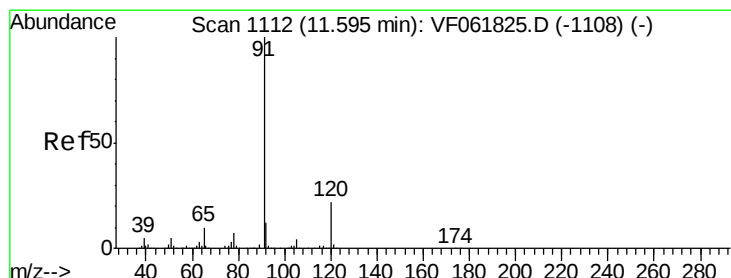
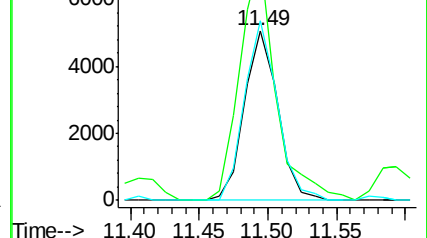
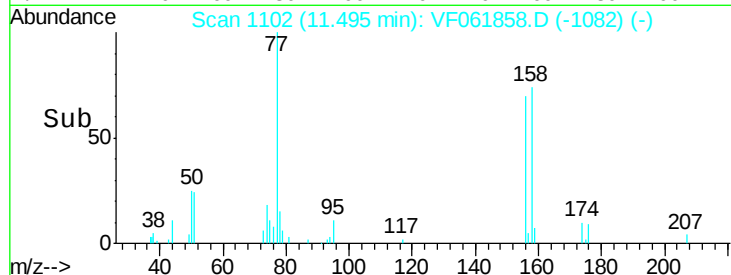
158 105.7 50.0 150.1



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 2.625 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061858.D

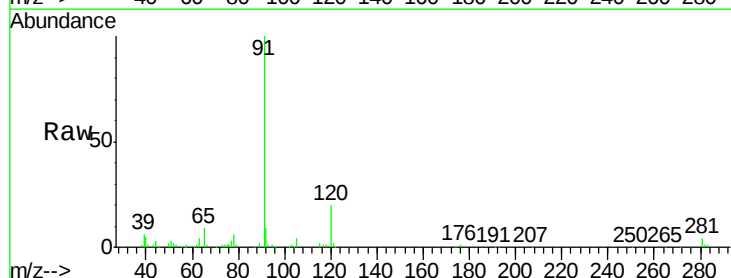
Acq: 5 Mar 2019 21:24

Tgt Ion: 91 Resp: 47264

Ion Ratio Lower Upper

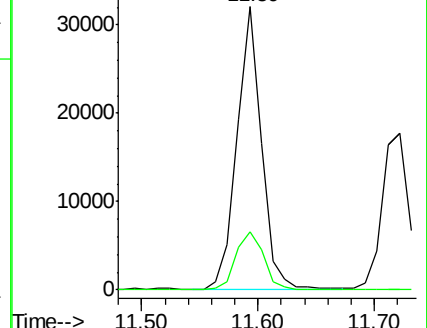
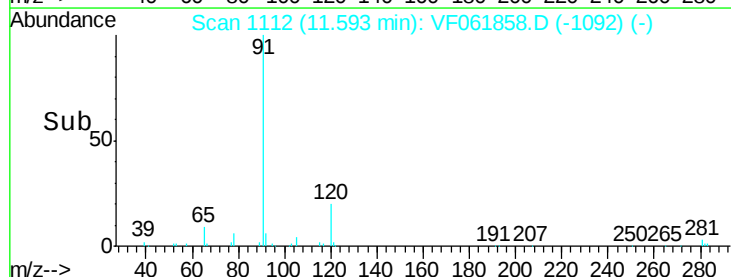
91 100

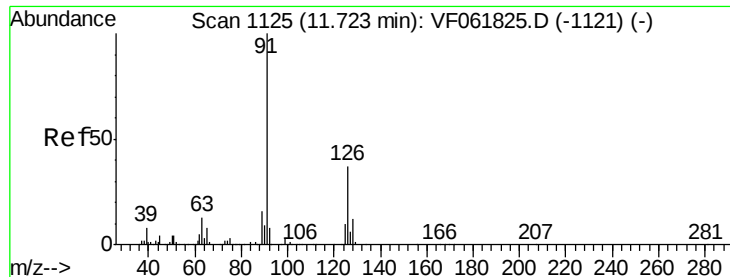
120 20.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.719 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

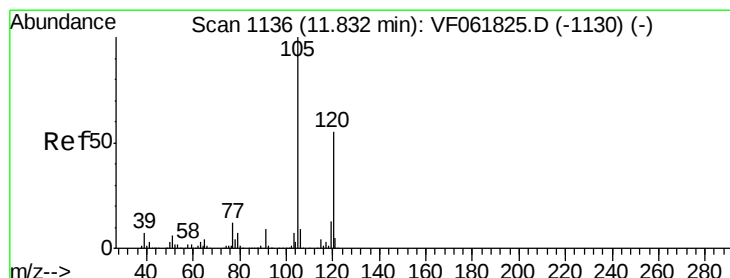
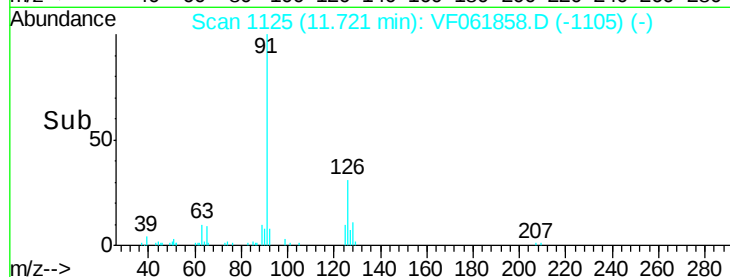
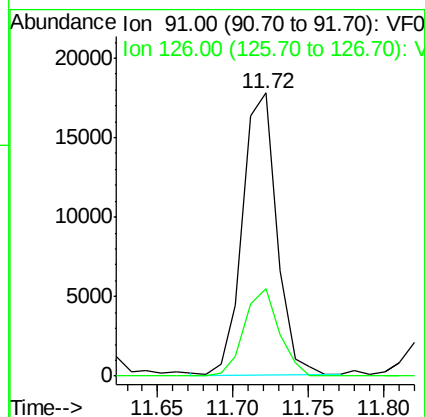
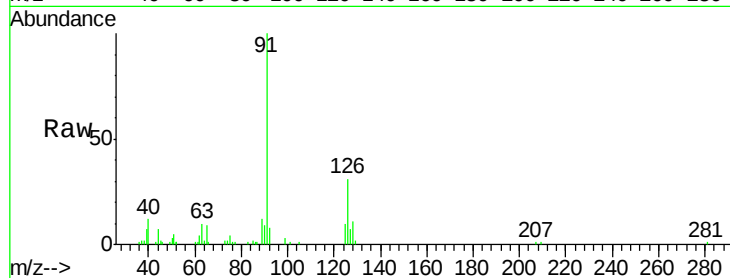
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 27987

Ion Ratio Lower Upper

91 100

126 31.0 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 2.493 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061858.D

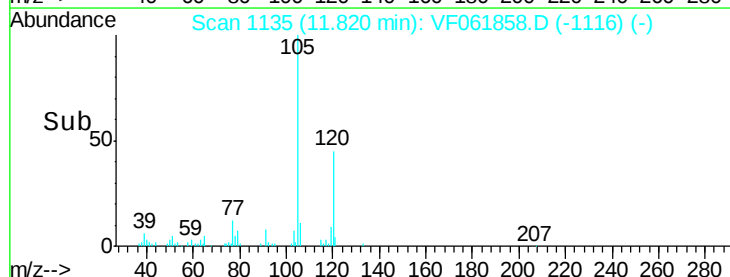
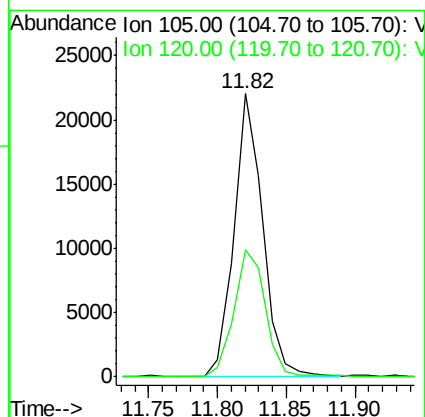
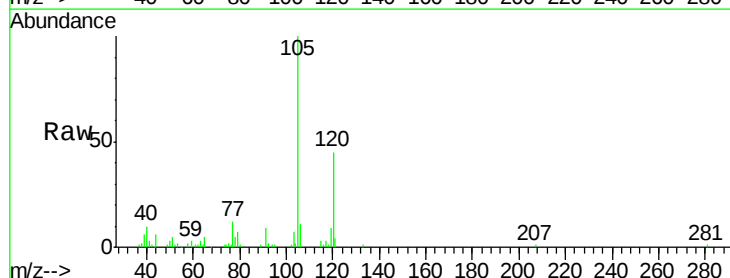
Acq: 5 Mar 2019 21:24

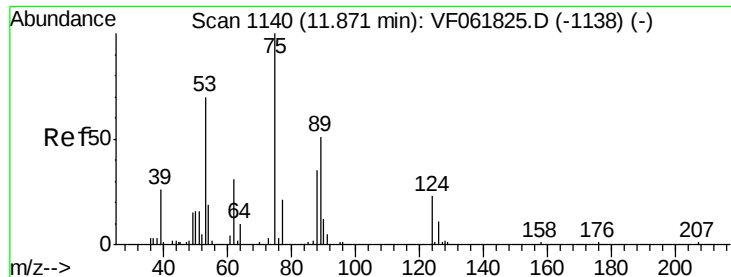
Tgt Ion:105 Resp: 31919

Ion Ratio Lower Upper

105 100

120 45.1 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 3.425 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

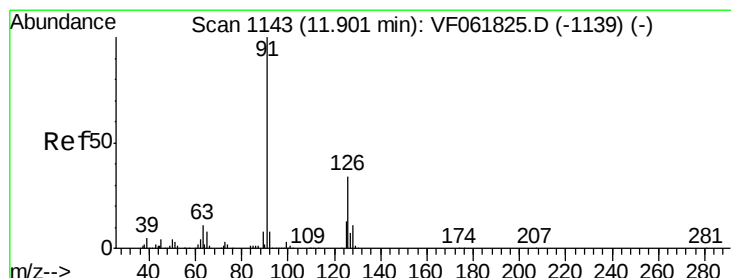
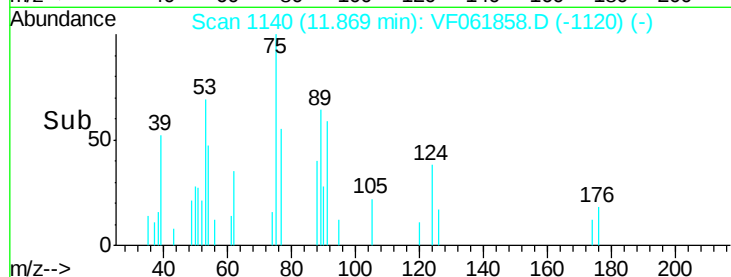
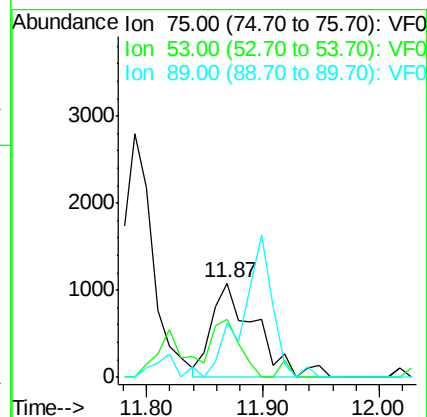
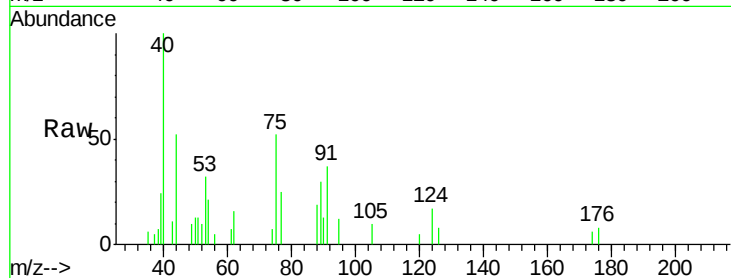
Tot Ion: 75 Resp: 2833

Ion Ratio Lower Upper

75 100

53 61.6 58.6 88.0

89 57.1 41.4 62.0



#82

4-Chlorotoluene

Concen: 2.681 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF061858.D

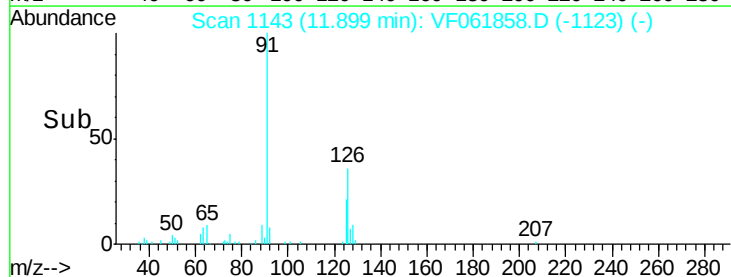
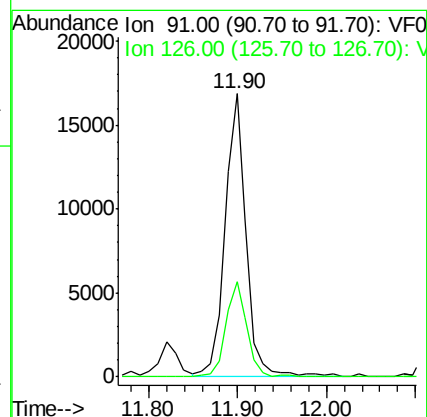
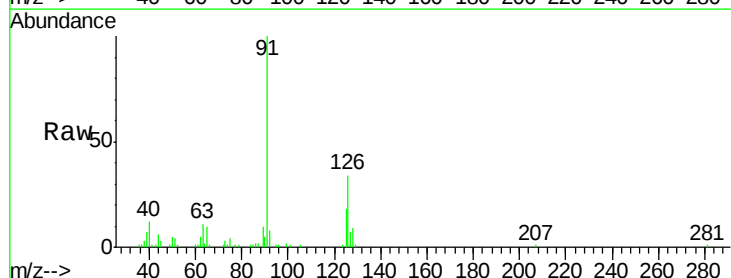
Acq: 5 Mar 2019 21:24

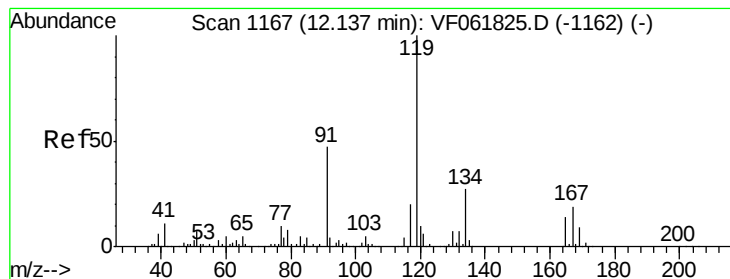
Tgt Ion: 91 Resp: 28227

Ion Ratio Lower Upper

91 100

126 33.8 17.0 50.9





#83

tert-Butylbenzene

Concen: 2.401 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

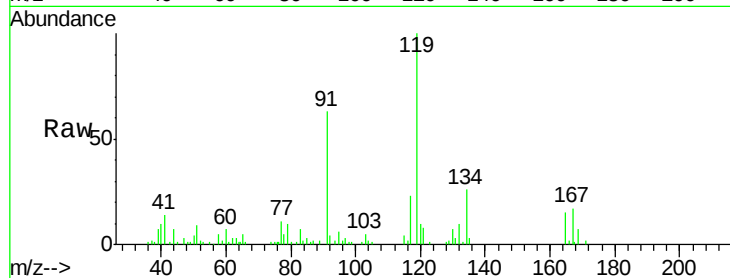
Tot Ion:119 Resp: 32639

Ion Ratio Lower Upper

119 100

91 62.8 23.5 70.5

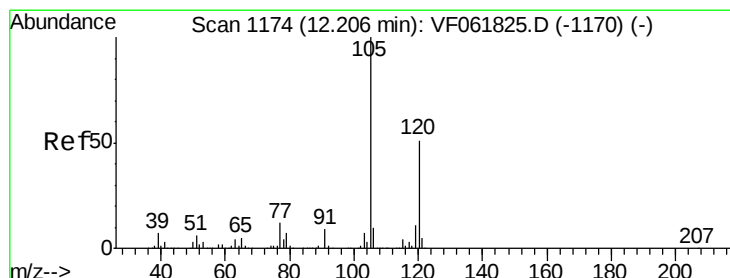
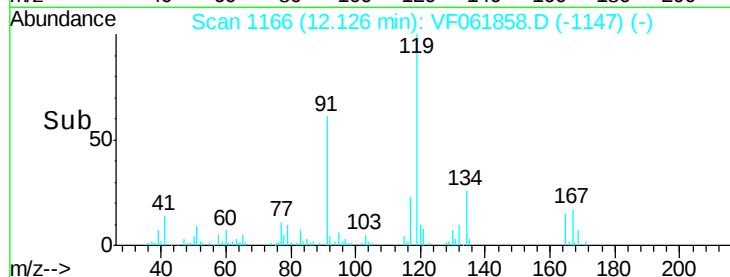
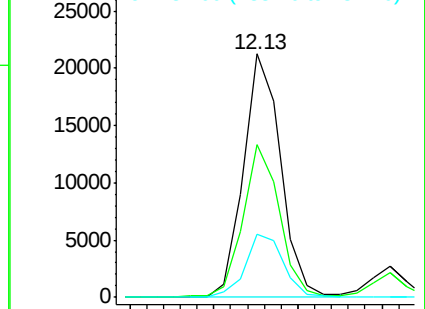
134 25.8 13.3 39.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.459 ug/l

RT: 12.20 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VF061858.D

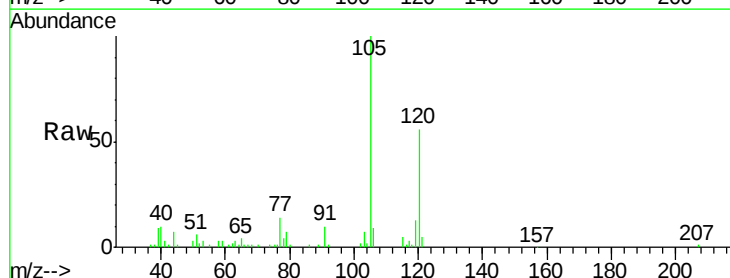
Acq: 5 Mar 2019 21:24

Tgt Ion:105 Resp: 30860

Ion Ratio Lower Upper

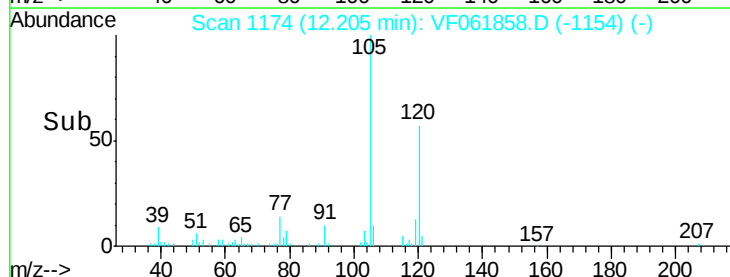
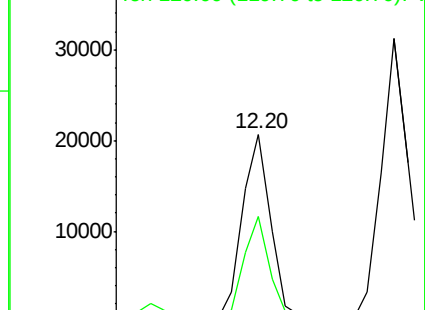
105 100

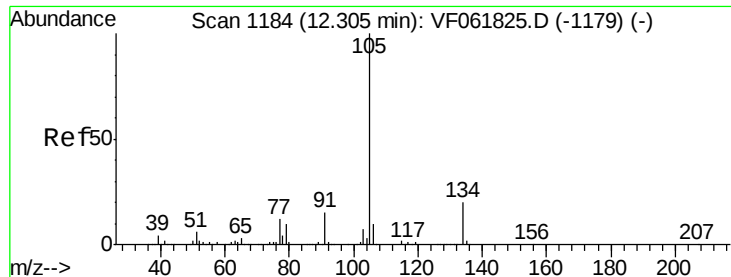
120 56.2 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

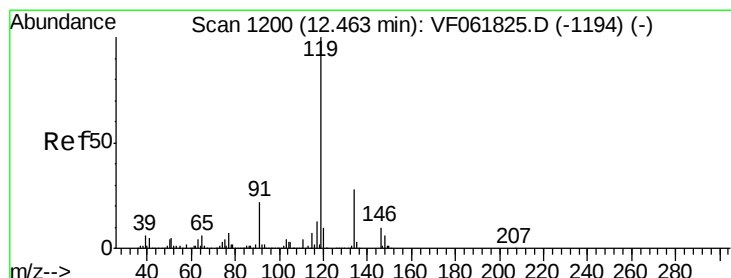
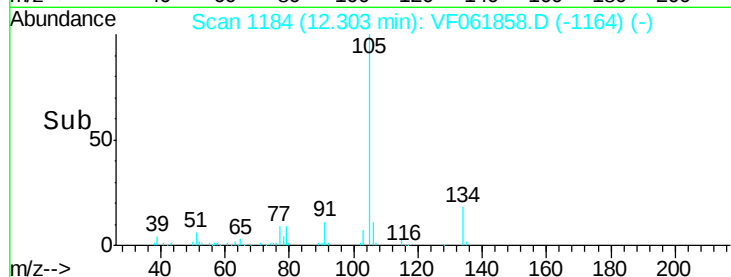
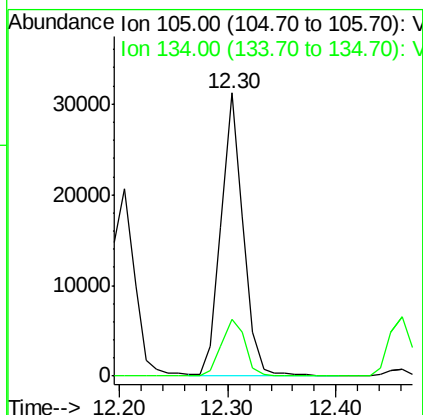
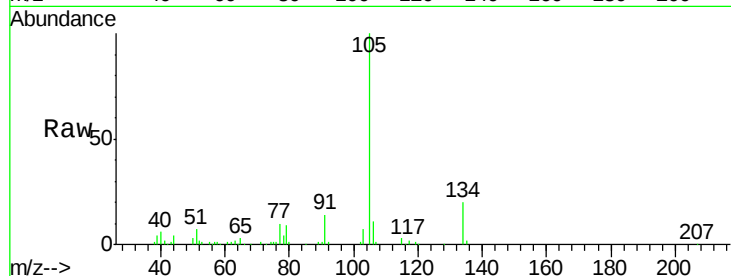




#85
 sec-Butylbenzene
 Concen: 2.522 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

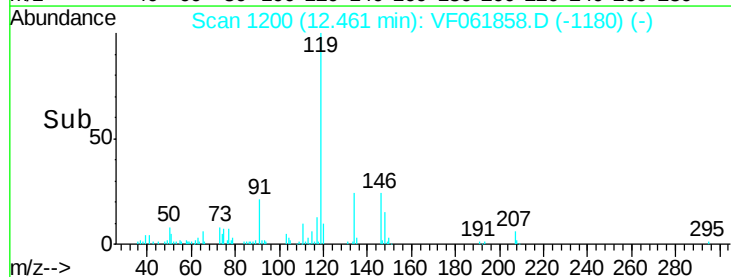
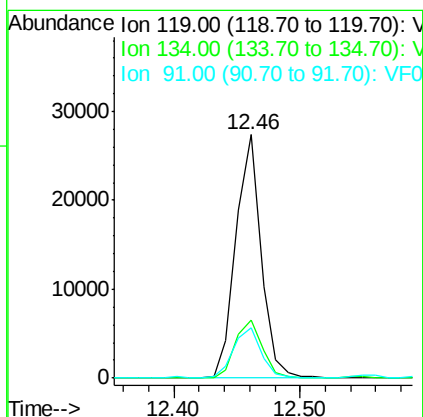
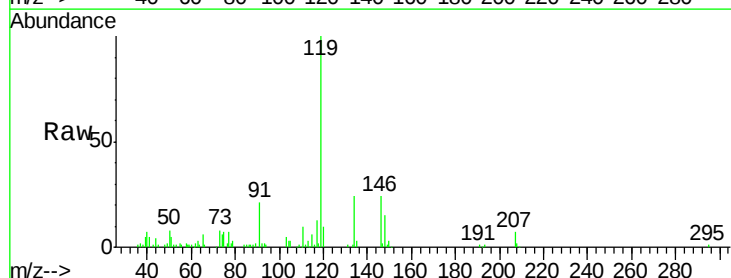
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

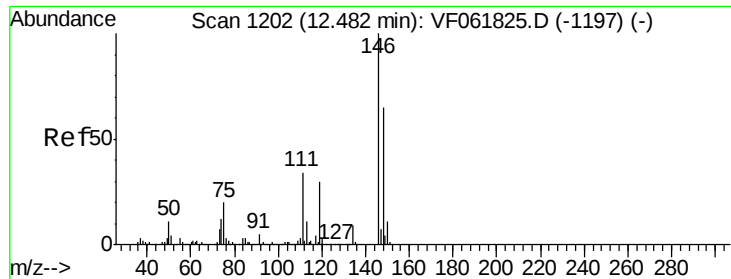
Tot Ion:105 Resp: 44608
 Ion Ratio Lower Upper
 105 100
 134 19.9 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 2.520 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion:119 Resp: 37886
 Ion Ratio Lower Upper
 119 100
 134 23.8 14.0 42.0
 91 20.6 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 2.944 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

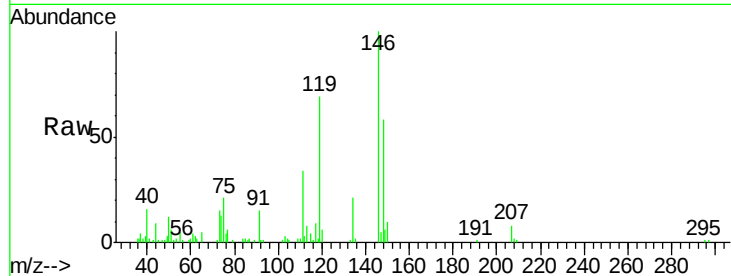
Tot Ion:146 Resp: 21450

Ion Ratio Lower Upper

146 100

111 34.1 17.0 51.0

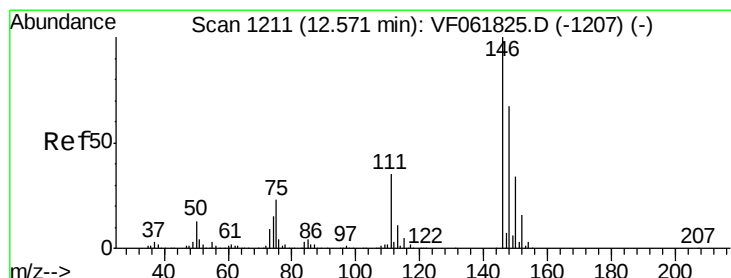
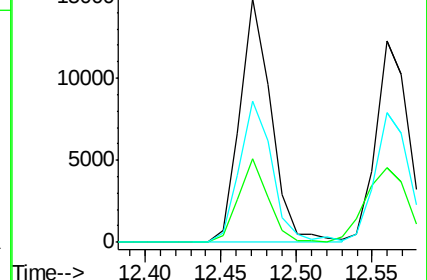
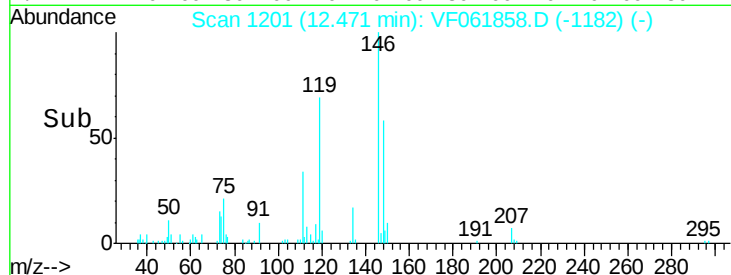
148 58.2 32.5 97.5



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



#88

1,4-Dichlorobenzene

Concen: 2.701 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

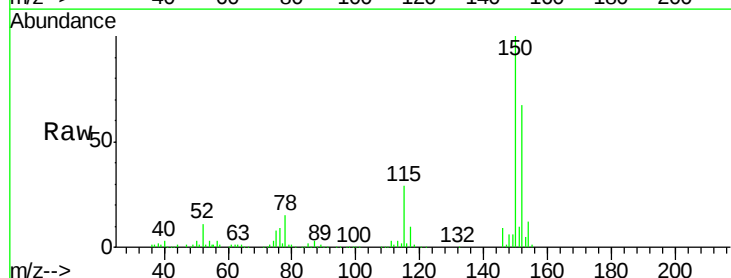
Tgt Ion:146 Resp: 18987

Ion Ratio Lower Upper

146 100

111 37.0 17.6 52.9

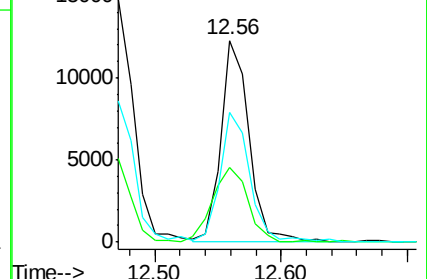
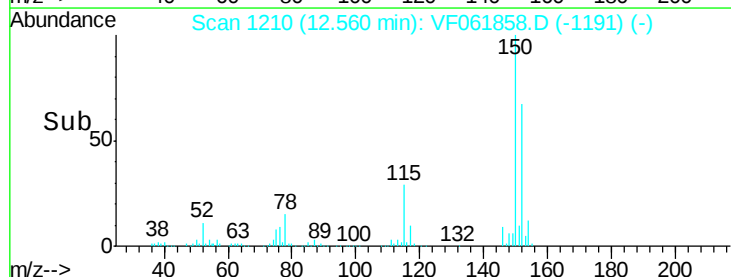
148 64.6 33.5 100.4

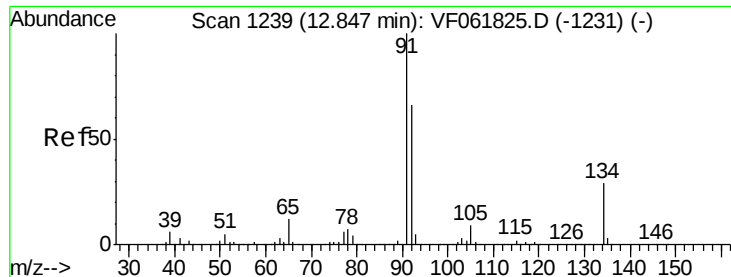


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

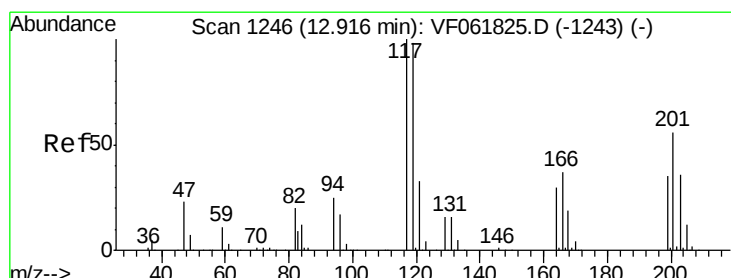
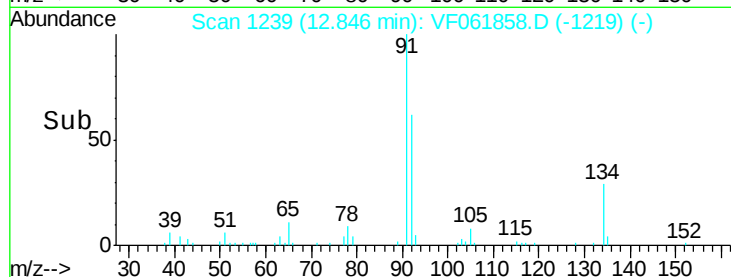
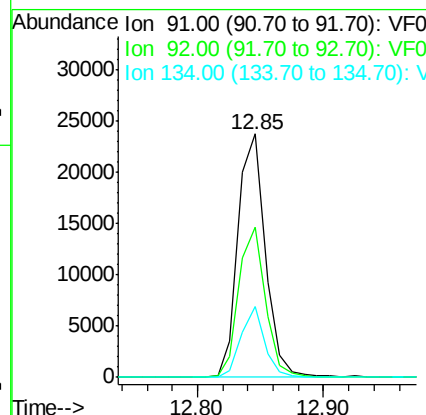
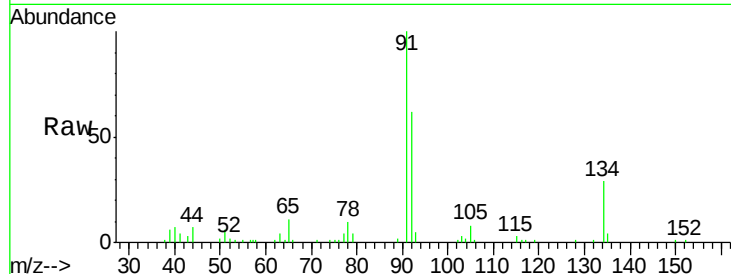




#89
n-Butylbenzene
Concen: 2.470 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

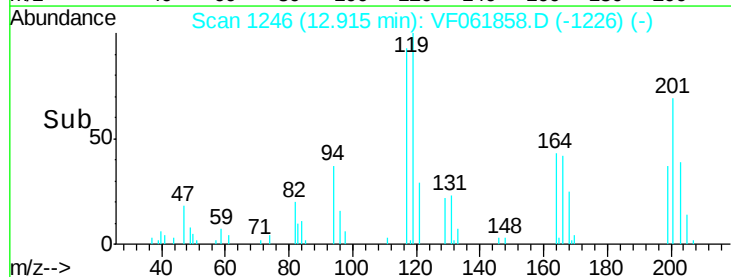
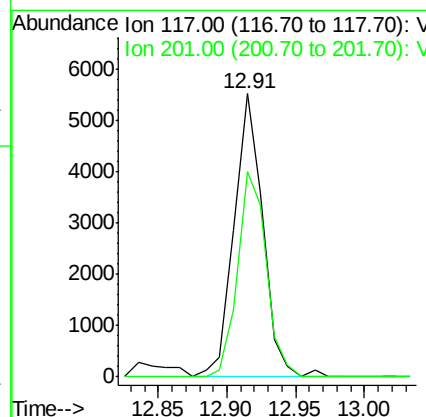
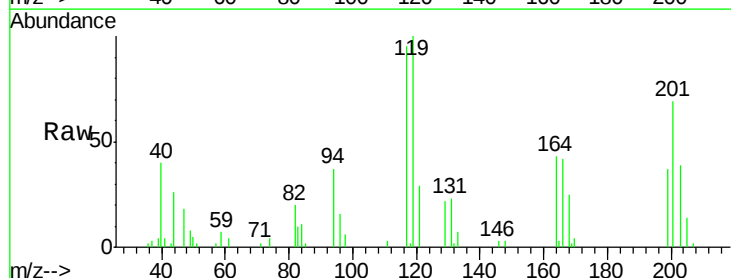
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

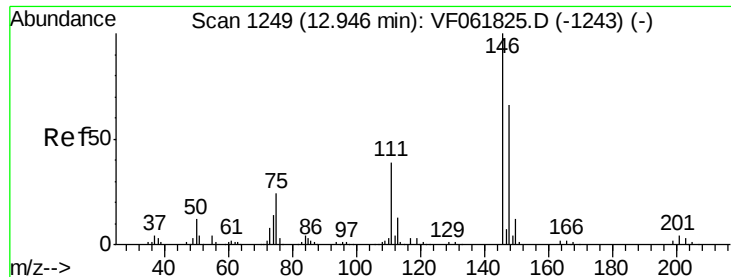
Tot Ion: 91 Resp: 35488
Ion Ratio Lower Upper
91 100
92 61.9 32.9 98.6
134 28.9 14.5 43.6



#90
Hexachloroethane
Concen: 2.218 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 117 Resp: 8026
Ion Ratio Lower Upper
117 100
201 72.6 27.8 83.4

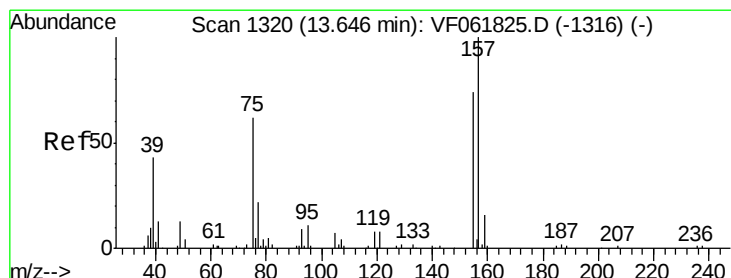
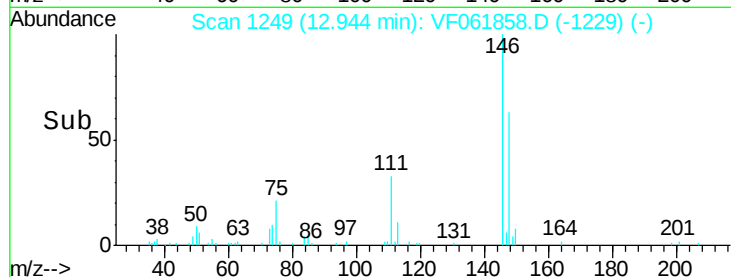
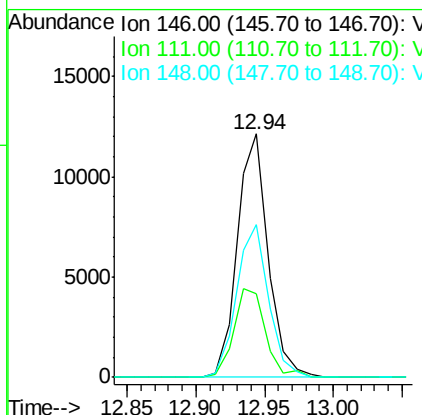
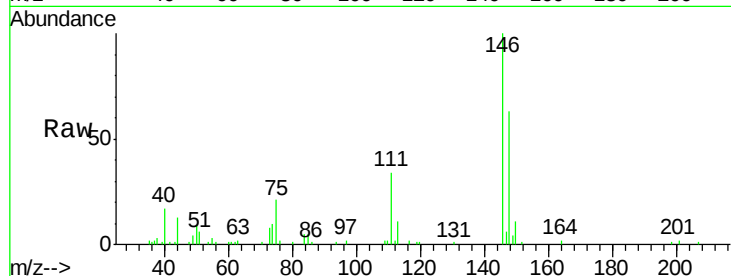




#91
 1,2-Dichlorobenzene
 Concen: 2.738 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

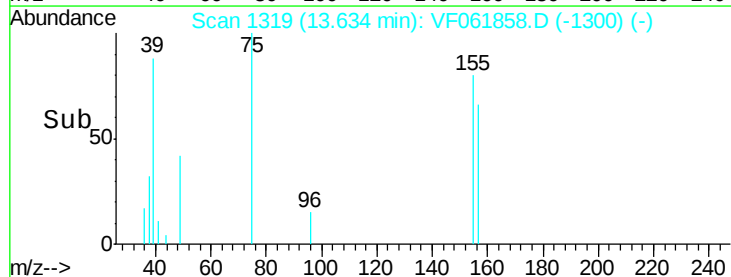
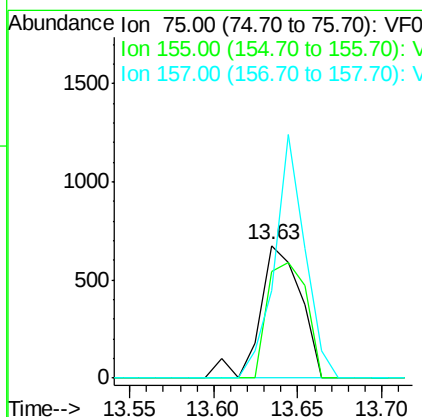
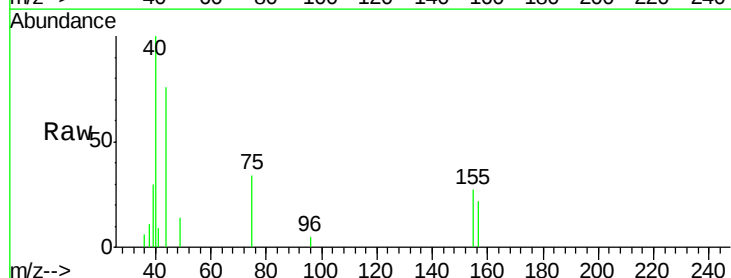
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

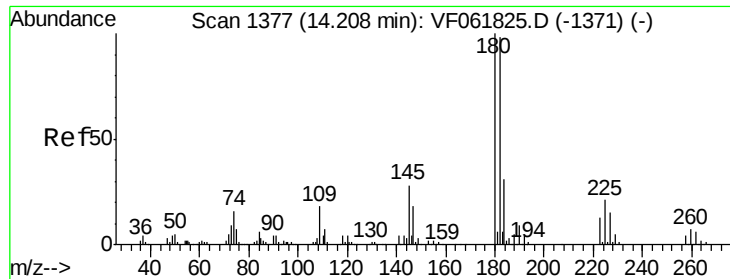
Tot Ion	Ratio	Lower	Upper
146	100		
111	34.3	19.4	58.4
148	62.7	33.0	98.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 6.058 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.2	59.8	179.4
157	65.6	81.2	243.4#

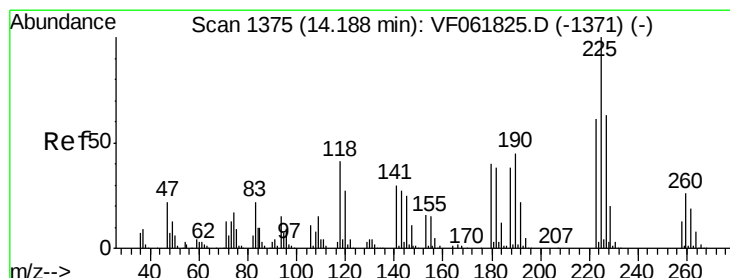
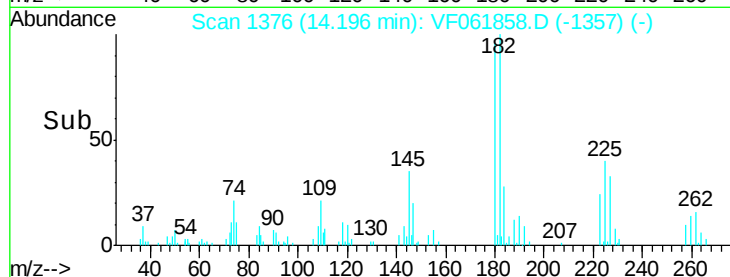
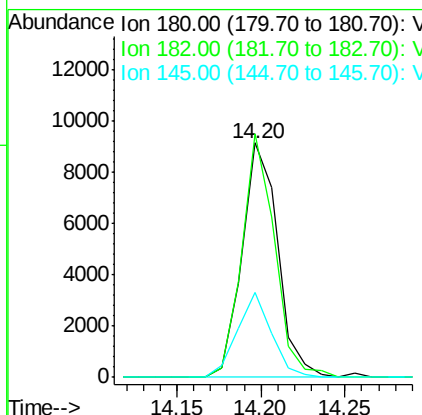
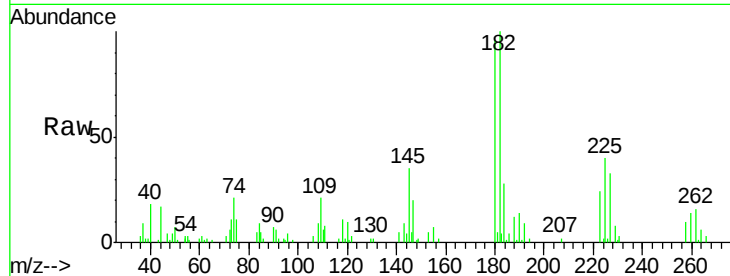




#93
 1,2,4-Trichlorobenzene
 Concen: 2.788 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

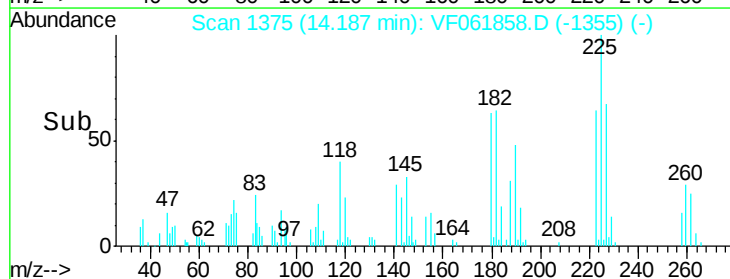
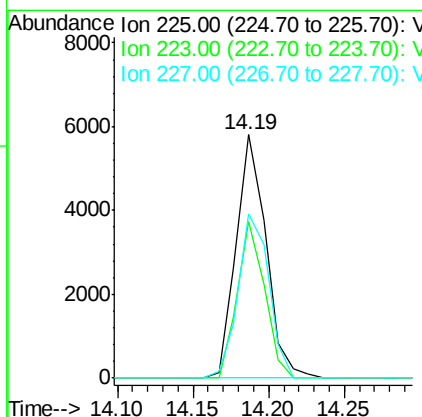
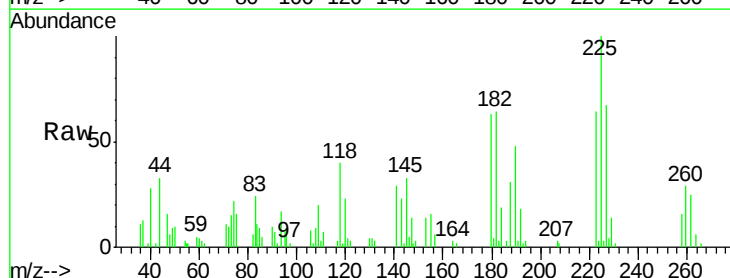
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

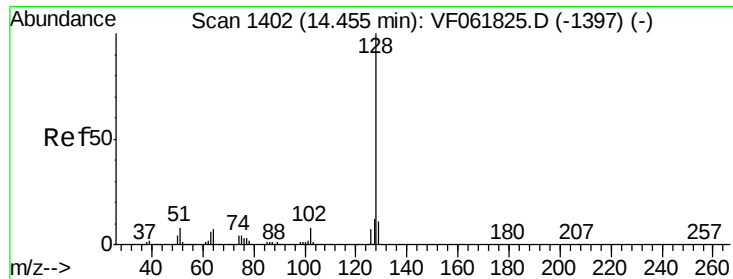
Tot Ion:180 Resp: 13493
 Ion Ratio Lower Upper
 180 100
 182 104.0 49.0 147.2
 145 36.4 14.1 42.4



#94
 Hexachlorobutadiene
 Concen: 2.385 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion:225 Resp: 7992
 Ion Ratio Lower Upper
 225 100
 223 67.8 30.3 90.9
 227 67.3 31.3 93.8

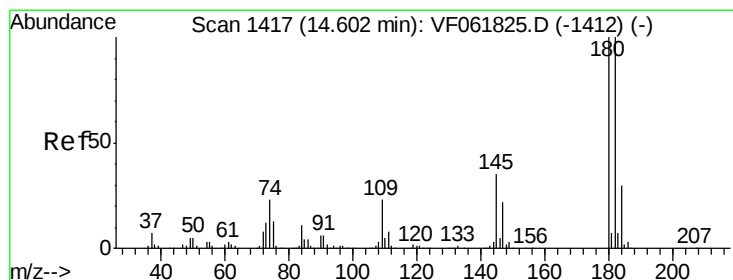
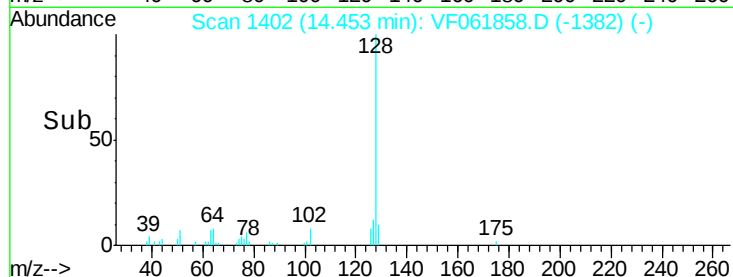
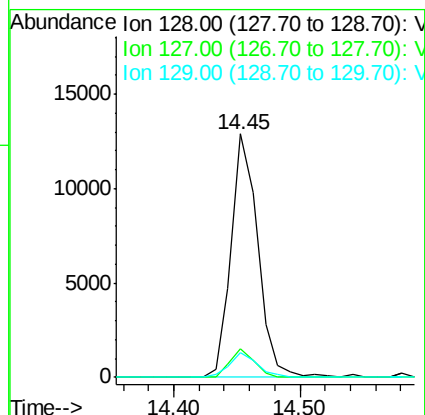
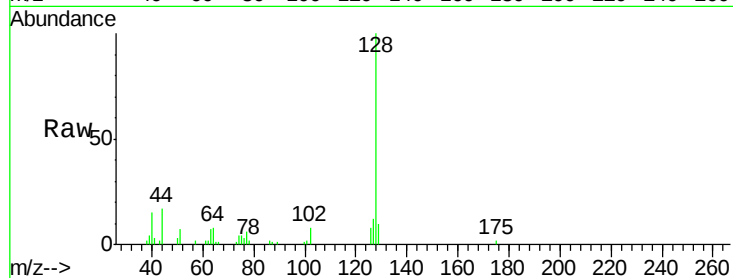




#95
Naphthalene
Concen: 2.189 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:128 Resp: 18871
Ion Ratio Lower Upper
128 100
127 12.0 9.3 13.9
129 10.2 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 2.544 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion:180 Resp: 11368
Ion Ratio Lower Upper
180 100
182 85.1 50.2 150.7
145 29.1 17.5 52.5

