

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022619\
 Data File : VF061745.D
 Acq On : 26 Feb 2019 16:34
 Operator : VA/AP
 Sample : K1560-03MDL2.5PPB
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Feb 27 04:59:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	307835	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	460112	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	404931	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	247687	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	125242	55.48	ug/l	-0.04
Spiked Amount			Recovery	=	110.96%	
35) Dibromofluoromethane	4.09	113	185541	54.30	ug/l	-0.03
Spiked Amount			Recovery	=	108.60%	
50) Toluene-d8	7.53	98	525630	53.51	ug/l	-0.03
Spiked Amount			Recovery	=	107.02%	
62) 4-Bromofluorobenzene	11.40	95	219305	55.18	ug/l	-0.02
Spiked Amount			Recovery	=	110.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	9229	2.611	ug/l	92
3) Chloromethane	1.10	50	10937	2.949	ug/l	96
4) Vinyl Chloride	1.14	62	9683	2.808	ug/l #	85
5) Bromomethane	1.34	94	7362	3.102	ug/l #	79
6) Chloroethane	1.38	64	5380	3.166	ug/l	95
7) Trichlorofluoromethane	1.47	101	7108	1.709	ug/l	89
8) Diethyl Ether	1.63	74	2734	2.609	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.83	101	8194	2.731	ug/l #	87
10) Methyl Iodide	1.90	142	11641	2.031	ug/l #	93
11) Tert butyl alcohol	2.56	59	1807	13.831	ug/l #	83
12) 1,1-Dichloroethene	1.78	96	6468	2.452	ug/l	96
13) Acrolein	2.00	56	3446	20.987	ug/l	93
14) Allyl chloride	2.09	41	8369	2.585	ug/l	93
15) Acrylonitrile	2.93	53	6170	13.315	ug/l #	82
16) Acetone	2.23	43	9188	18.970	ug/l	94
17) Carbon Disulfide	1.75	76	3084	0.372	ug/l	97
18) Methyl Acetate	2.37	43	8646	7.924	ug/l #	65
19) Methyl tert-butyl Ether	2.43	73	11411	2.531	ug/l	93
20) Methylene Chloride	2.17	84	4731	Below Cal	#	93
21) trans-1,2-Dichloroethene	2.31	96	7933	2.766	ug/l #	84
22) Diisopropyl ether	2.79	45	21654	2.787	ug/l	95
23) Vinyl Acetate	3.17	43	38777	10.218	ug/l	99
24) 1,1-Dichloroethane	2.86	63	12580	2.675	ug/l #	95
25) 2-Butanone	4.32	43	13575	12.831	ug/l	96
26) 2,2-Dichloropropane	3.59	77	5645	2.834	ug/l	77
27) cis-1,2-Dichloroethene	3.46	96	8949	2.378	ug/l	93
28) Bromochloromethane	3.70	49	6228	2.760	ug/l	99
29) Tetrahydrofuran	4.07	42	6512	13.543	ug/l #	89
30) Chloroform	3.84	83	14376	2.688	ug/l	99
31) Cyclohexane	3.67	56	8073	1.586	ug/l	96
32) 1,1,1-Trichloroethane	4.07	97	8499	2.426	ug/l	95
36) 1,1-Dichloropropene	4.26	75	12805	2.809	ug/l	91
37) Ethyl Acetate	4.10	43	5197	2.455	ug/l #	84
38) Carbon Tetrachloride	4.09	117	2517	0.800	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	13914	2.581	ug/l #	87
40) Benzene	4.61	78	31046	2.604	ug/l #	85
41) Methacrylonitrile	4.73	41	3255	3.006	ug/l #	80
42) 1,2-Dichloroethane	4.93	62	7306	2.562	ug/l	100
43) Isopropyl Acetate	6.95	43	6213	2.479	ug/l #	87
44) Trichloroethene	5.48	130	10586	2.746	ug/l	99
45) 1,2-Dichloropropane	6.22	63	7653	2.656	ug/l	100
46) Dibromomethane	6.07	93	4446	2.506	ug/l #	70
47) Bromodichloromethane	6.36	83	9848	2.535	ug/l #	93
48) Methyl methacrylate	6.70	41	3911	2.593	ug/l #	87
49) 1,4-Dioxane	6.70	88	682	48.108	ug/l #	56
51) 4-Methyl-2-Pentanone	8.24	43	22669	12.660	ug/l	96
52) Toluene	7.60	92	18095	2.503	ug/l	90
53) t-1,3-Dichloropropene	8.26	75	8263	2.555	ug/l	96
54) cis-1,3-Dichloropropene	7.29	75	10472	2.431	ug/l #	89
55) 1,1,2-Trichloroethane	8.48	97	5283	2.487	ug/l #	85
56) Ethyl methacrylate	8.60	69	6168	2.608	ug/l	97
57) 1,3-Dichloropropane	8.83	76	8762	2.471	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.28	63	3861	9.461	ug/l #	54
59) 2-Hexanone	9.48	43	16422	13.084	ug/l	98
60) Dibromochloromethane	8.70	129	6705	2.268	ug/l	91
61) 1,2-Dibromoethane	8.96	107	6052	2.627	ug/l	91
64) Tetrachloroethene	8.13	164	8671	2.620	ug/l	95
65) Chlorobenzene	9.78	112	22133	2.694	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.91	131	7952	2.470	ug/l	82
67) Ethyl Benzene	9.88	91	35719	2.614	ug/l	98
68) m/p-Xylenes	10.12	106	28724	5.492	ug/l	91
69) o-Xylene	10.70	106	15220	2.727	ug/l	90
70) Styrene	10.77	104	21543	2.729	ug/l	94
71) Bromoform	10.76	173	4057	2.320	ug/l	79
73) Isopropylbenzene	11.11	105	40395	2.291	ug/l	98
74) N-amyl acetate	11.36	43	10165	2.401	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.68	83	6578	2.082	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	5406	2.517	ug/l	96
77) Bromobenzene	11.48	156	10510	2.412	ug/l	89
78) n-propylbenzene	11.58	91	50846	2.513	ug/l	93
79) 2-Chlorotoluene	11.70	91	29730	2.623	ug/l	89
80) 1,3,5-Trimethylbenzene	11.81	105	35054	2.487	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	3042	2.954	ug/l	94
82) 4-Chlorotoluene	11.88	91	31414	2.670	ug/l	91
83) tert-Butylbenzene	12.12	119	38969	2.496	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	35158	2.511	ug/l	99
85) sec-Butylbenzene	12.30	105	51336	2.543	ug/l	99
86) p-Isopropyltoluene	12.44	119	43137	2.546	ug/l	96
87) 1,3-Dichlorobenzene	12.46	146	22852	2.691	ug/l	95
88) 1,4-Dichlorobenzene	12.55	146	22281	2.728	ug/l	91
89) n-Butylbenzene	12.83	91	39723	2.483	ug/l	99
90) Hexachloroethane	12.91	117	9494	2.409	ug/l	94
91) 1,2-Dichlorobenzene	12.93	146	21207	2.625	ug/l	86
92) 1,2-Dibromo-3-Chloropropan	13.63	75	925	1.847	ug/l	60

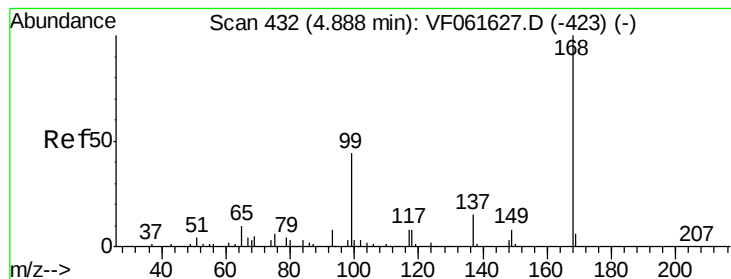
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022619\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	13877	2.397	ug/l	93
94) Hexachlorobutadiene	14.18	225	9465	2.647	ug/l	94
95) Naphthalene	14.45	128	24441	2.412	ug/l	94
96) 1,2,3-Trichlorobenzene	14.59	180	12586	2.368	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

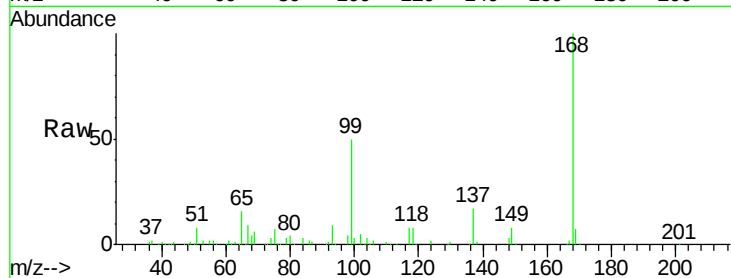
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:168 Resp: 307835

Ion Ratio Lower Upper

168 100

99 50.3 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

100000

80000

60000

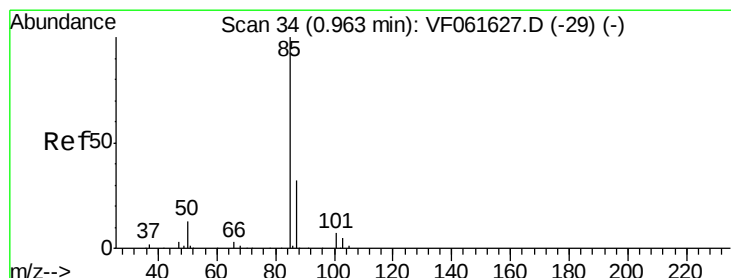
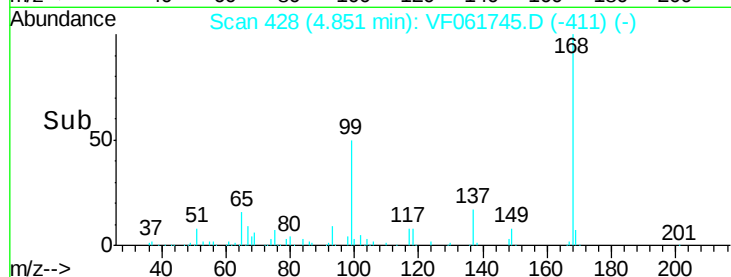
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 2.611 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061745.D

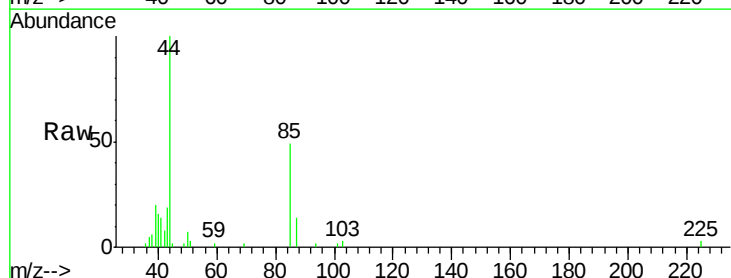
Acq: 26 Feb 2019 16:34

Tgt Ion: 85 Resp: 9229

Ion Ratio Lower Upper

85 100

87 27.8 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

3000

2500

2000

1500

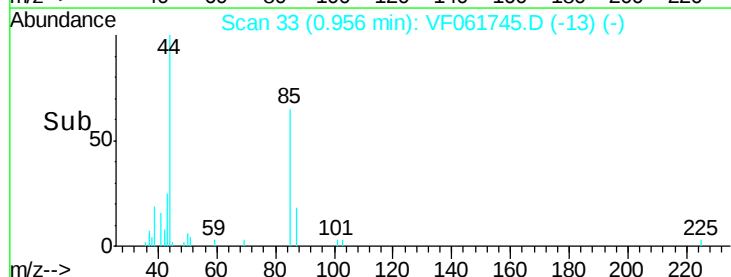
1000

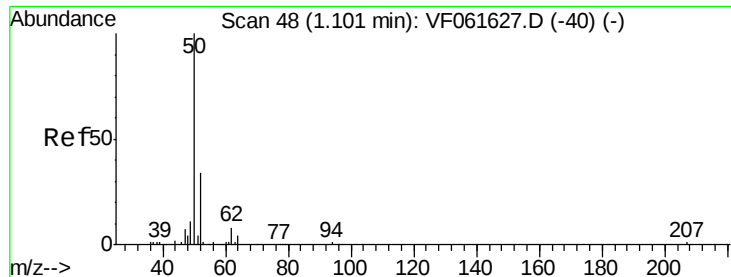
500

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 2.949 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

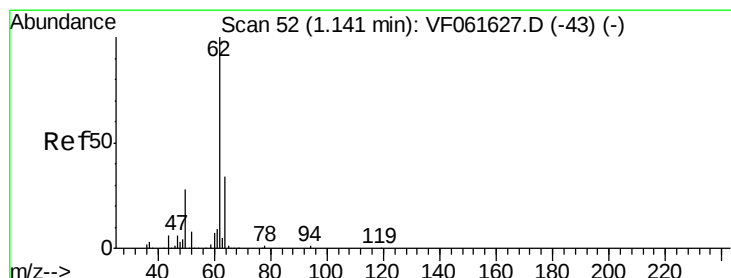
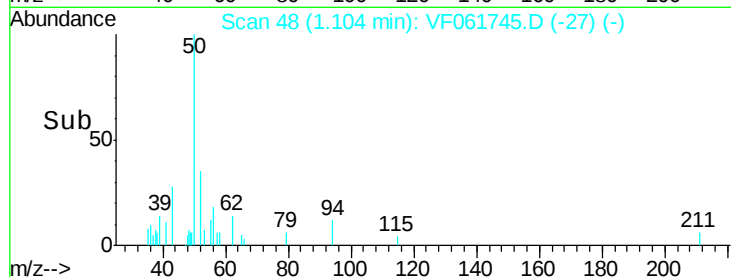
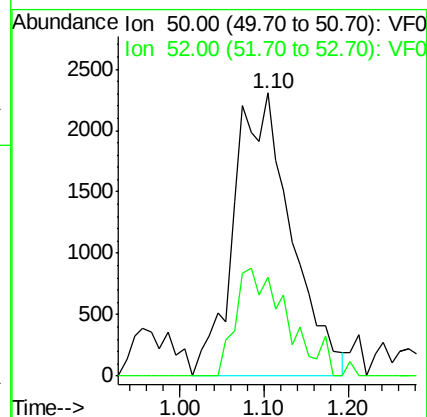
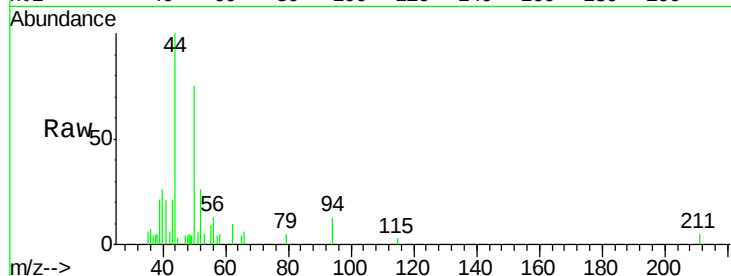
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 50 Resp: 10937

Ion Ratio Lower Upper

50 100

52 34.8 26.2 39.4



#4

Vinyl Chloride

Concen: 2.808 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061745.D

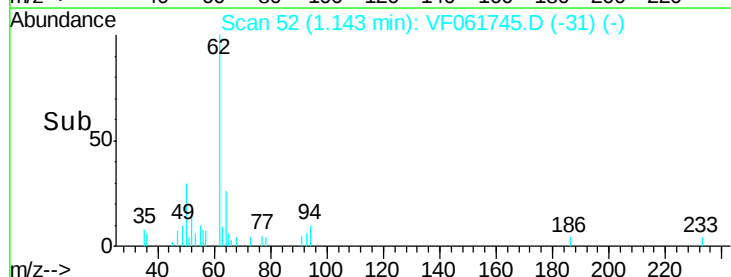
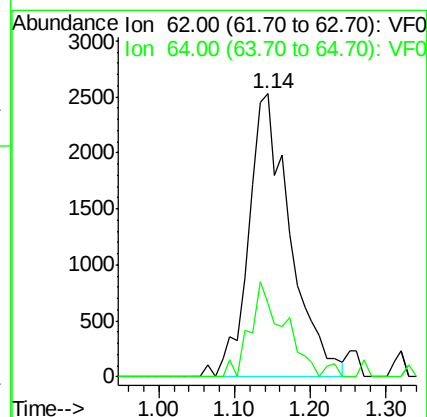
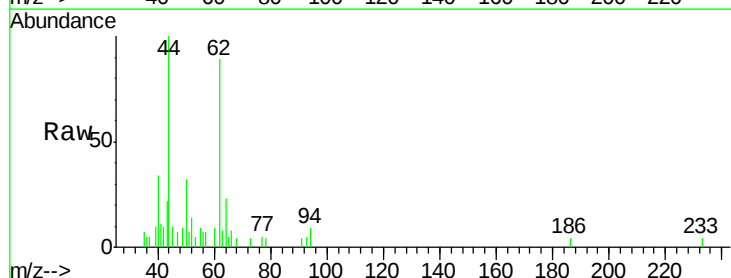
Acq: 26 Feb 2019 16:34

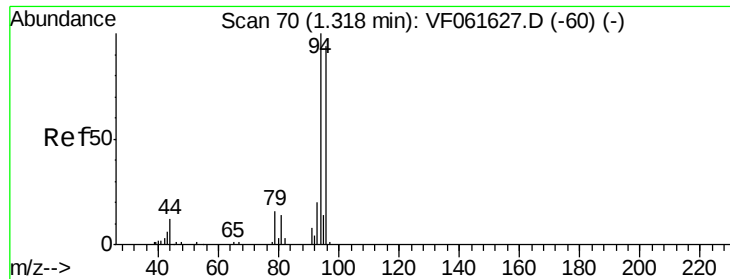
Tgt Ion: 62 Resp: 9683

Ion Ratio Lower Upper

62 100

64 25.9 27.5 41.3#





#5

Bromomethane

Concen: 3.102 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

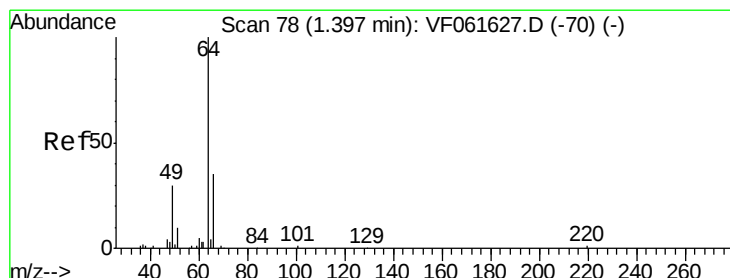
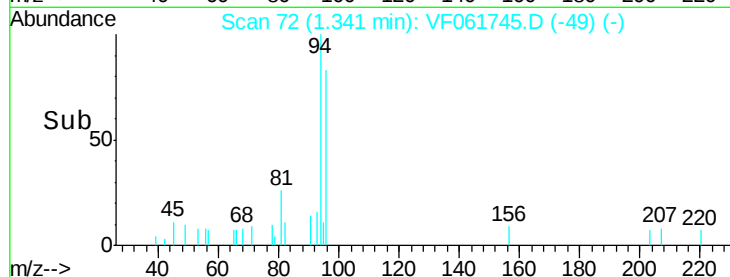
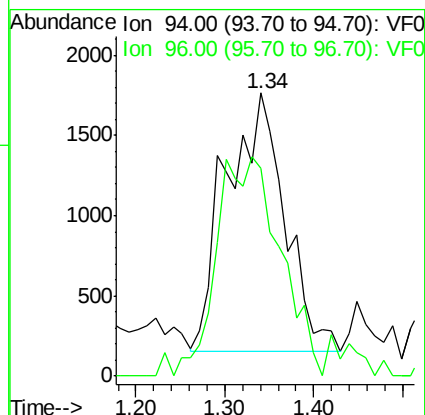
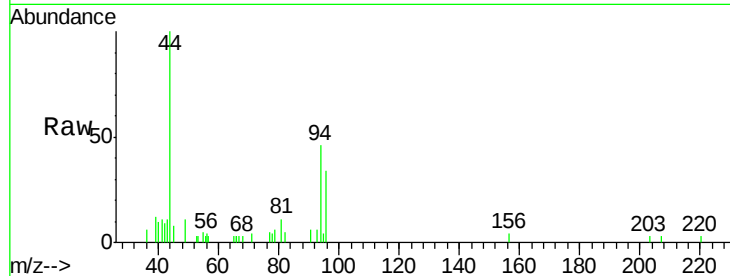
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 94 Resp: 7362

Ion Ratio Lower Upper

94 100

96 73.3 74.6 112.0#



#6

Chloroethane

Concen: 3.166 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.02 min

Lab File: VF061745.D

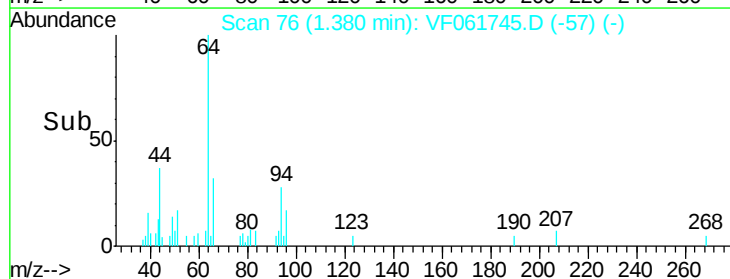
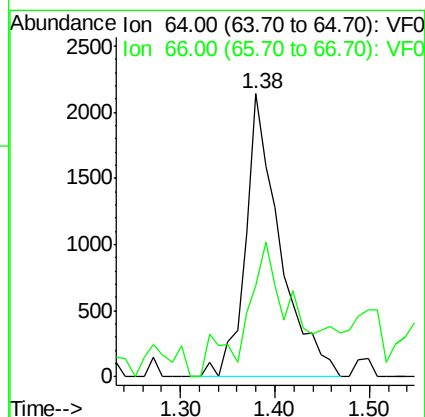
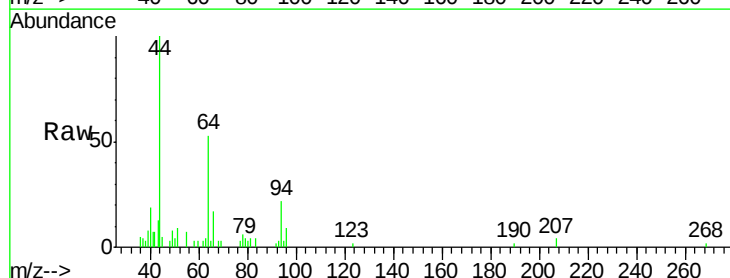
Acq: 26 Feb 2019 16:34

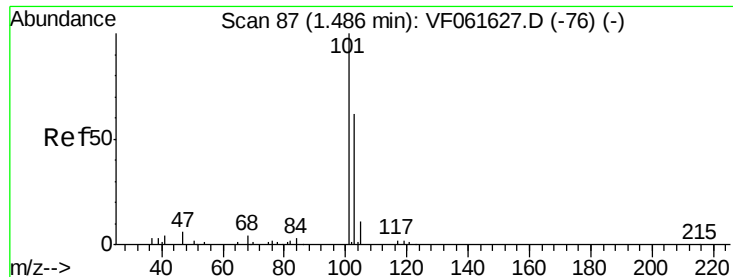
Tgt Ion: 64 Resp: 5380

Ion Ratio Lower Upper

64 100

66 32.1 27.9 41.9





#7

Trichlorofluoromethane

Concen: 1.709 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

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ClientSampleId :

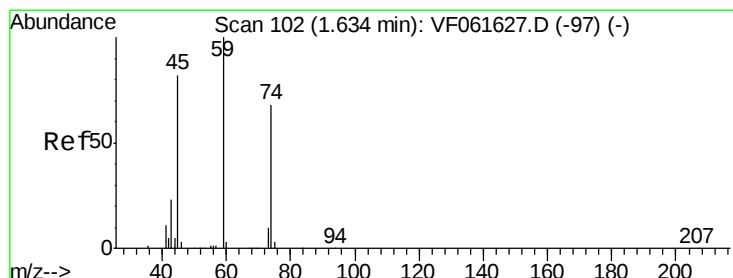
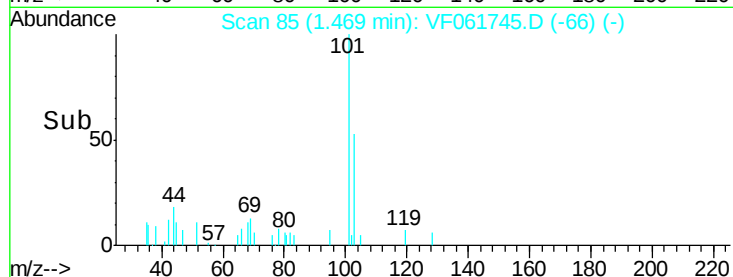
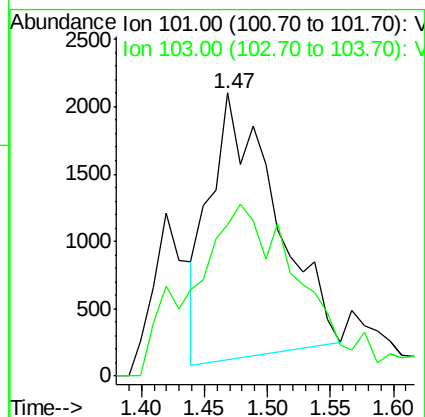
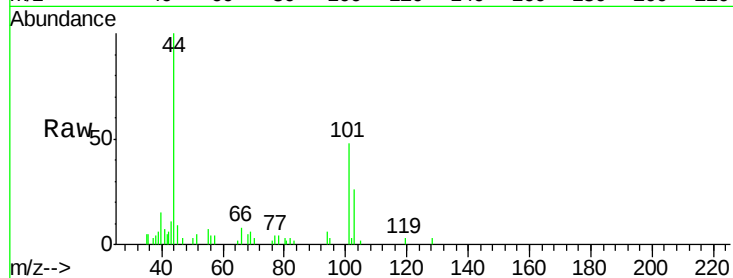
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:101 Resp: 7108

Ion Ratio Lower Upper

101 100

103 53.5 49.3 73.9



#8

Diethyl Ether

Concen: 2.609 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061745.D

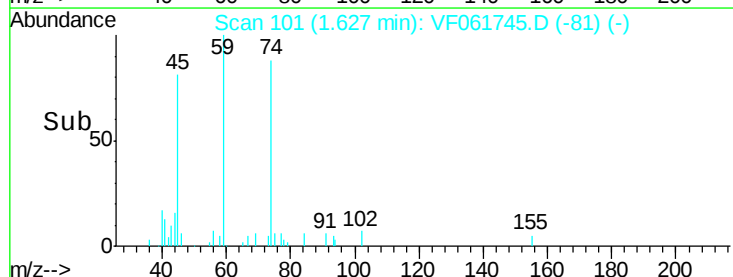
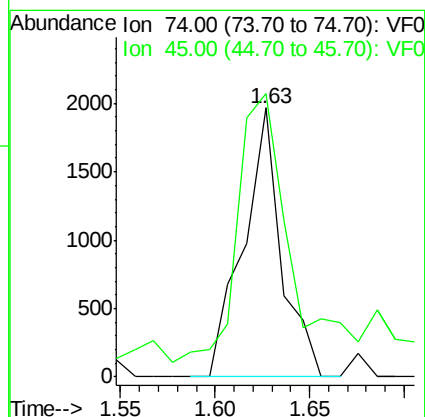
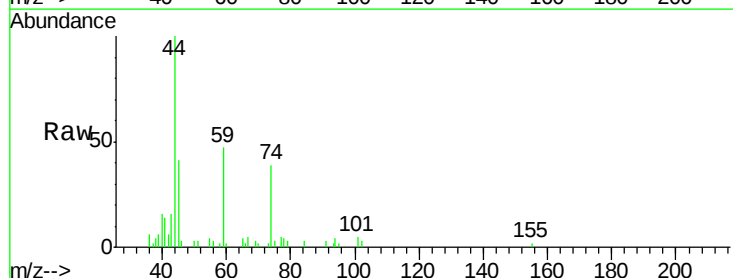
Acq: 26 Feb 2019 16:34

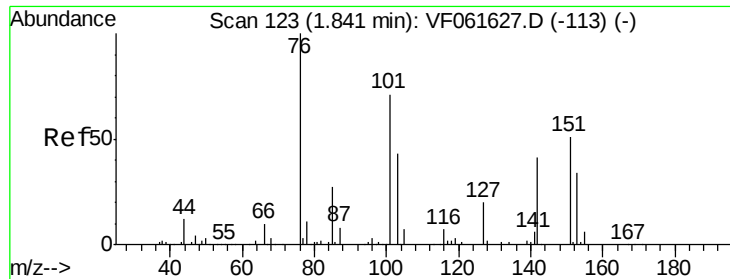
Tgt Ion: 74 Resp: 2734

Ion Ratio Lower Upper

74 100

45 105.3 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.731 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

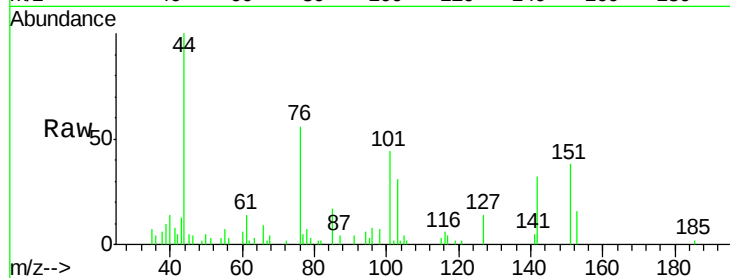
Tot Ion:101 Resp: 8194

Ion Ratio Lower Upper

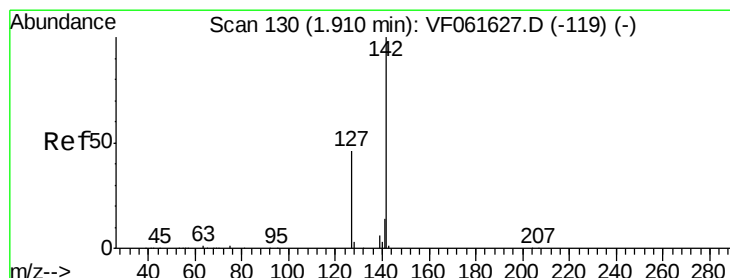
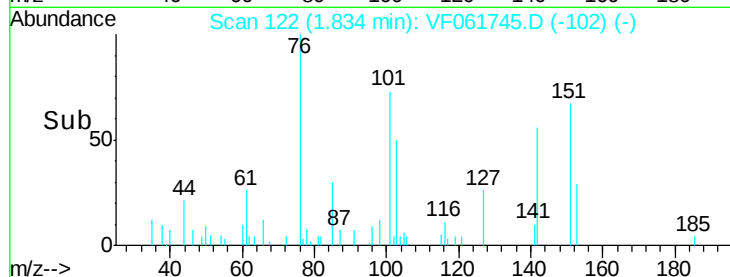
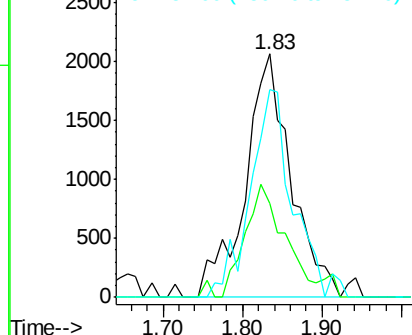
101 100

85 38.8 29.8 44.6

151 85.5 56.3 84.5#



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: 2.031 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

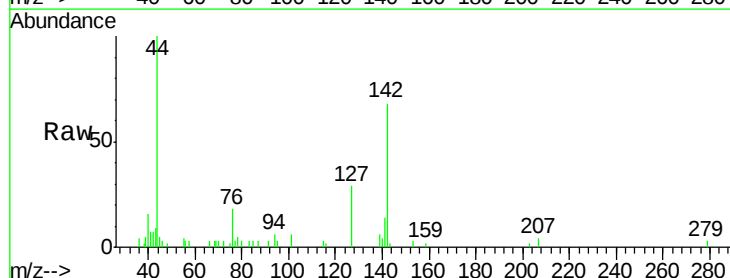
Tgt Ion:142 Resp: 11641

Ion Ratio Lower Upper

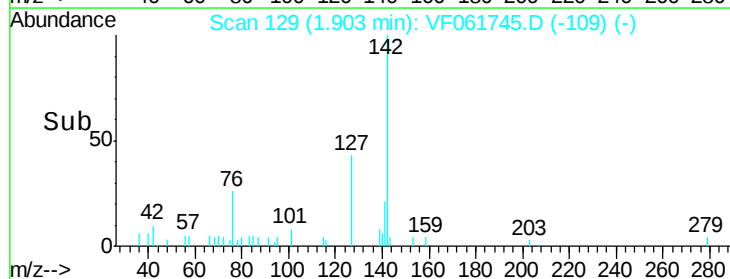
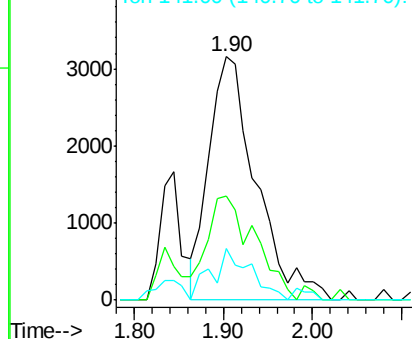
142 100

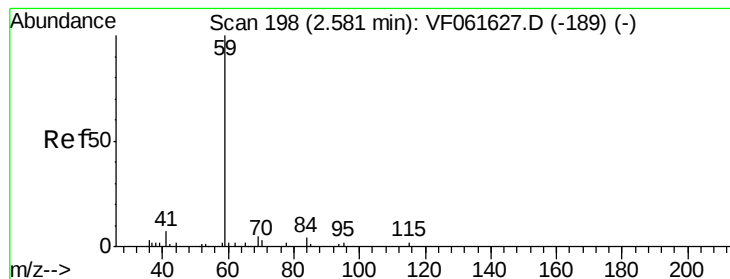
127 43.0 36.6 55.0

141 20.9 11.0 16.6#



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



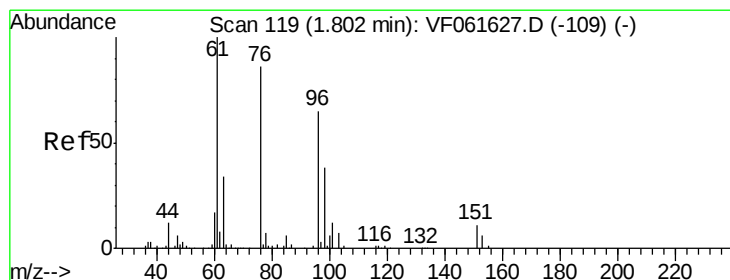
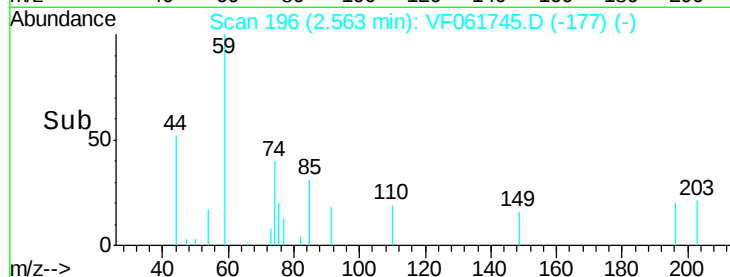
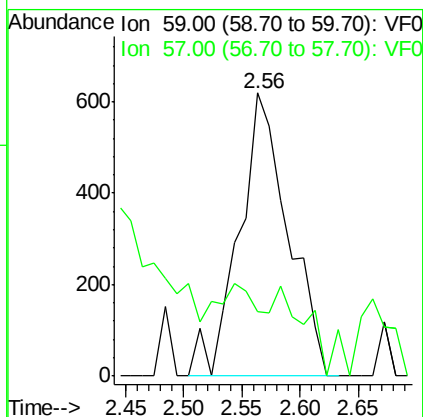
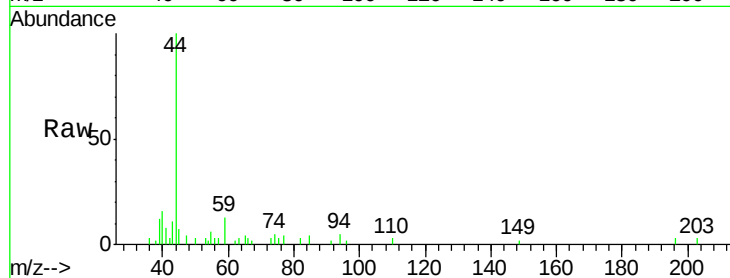


#11

Tert butyl alcohol
 Concen: 13.831 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

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

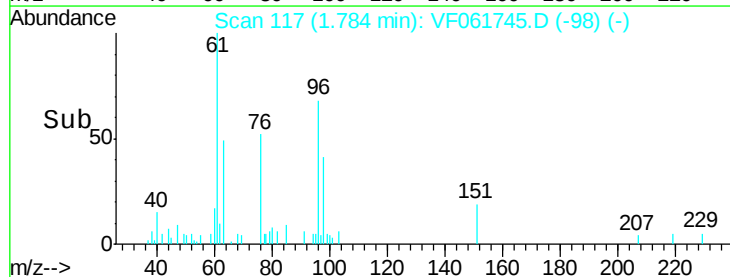
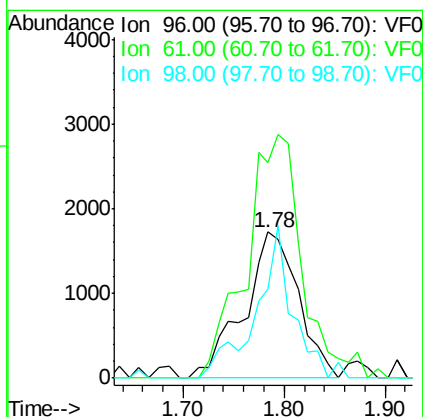
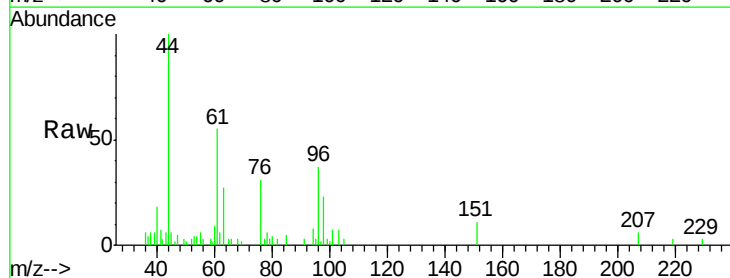
Tot Ion: 59 Resp: 1807
 Ion Ratio Lower Upper
 59 100
 57 22.6 12.5 18.7#

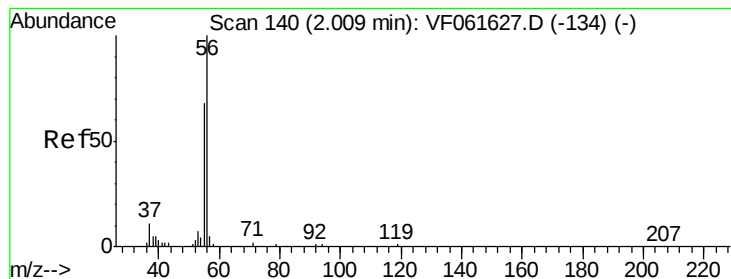


#12

1,1-Dichloroethene
 Concen: 2.452 ug/l
 RT: 1.78 min Scan# 117
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion: 96 Resp: 6468
 Ion Ratio Lower Upper
 96 100
 61 147.4 122.6 184.0
 98 60.8 47.2 70.8





#13

Acrolein

Concen: 20.987 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

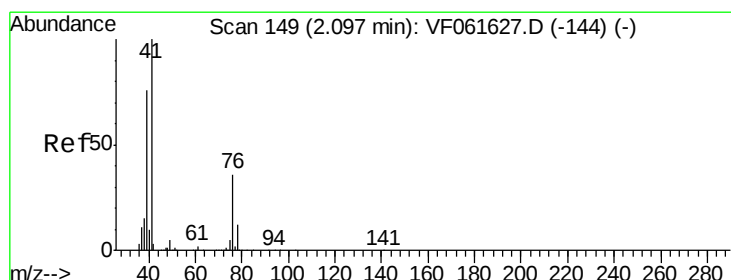
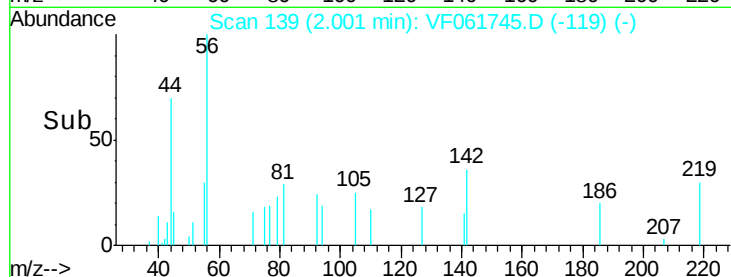
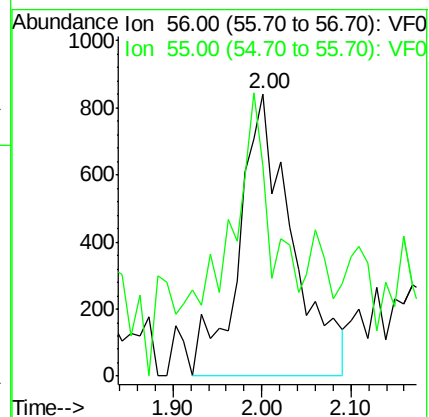
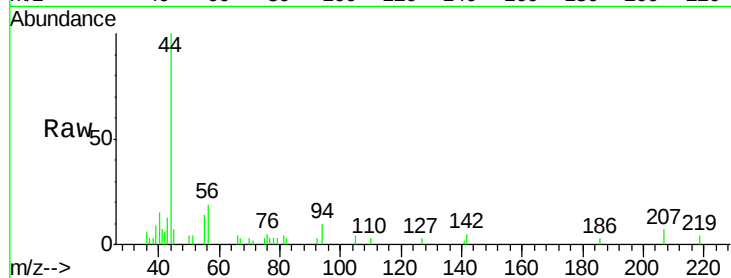
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 56 Resp: 3446

Ion Ratio Lower Upper

56 100

55 74.6 55.0 82.6



#14

Allyl chloride

Concen: 2.585 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

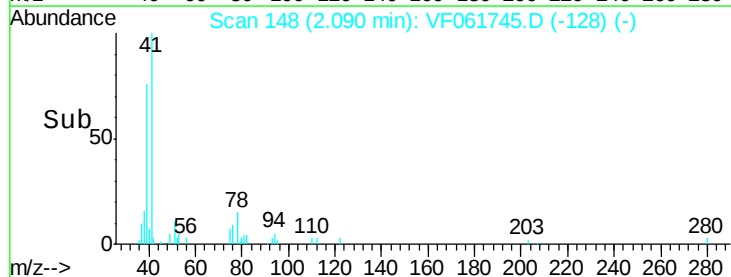
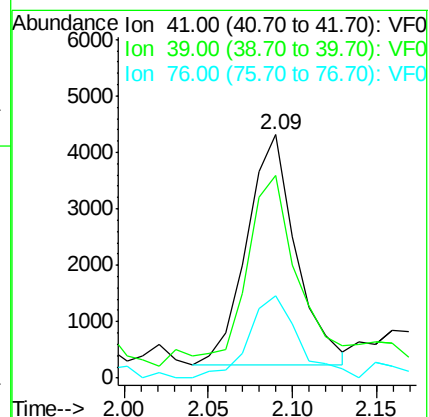
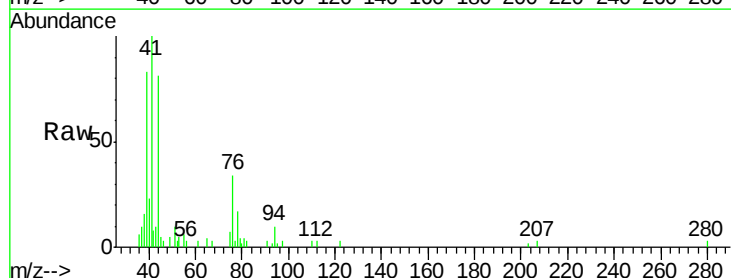
Tgt Ion: 41 Resp: 8369

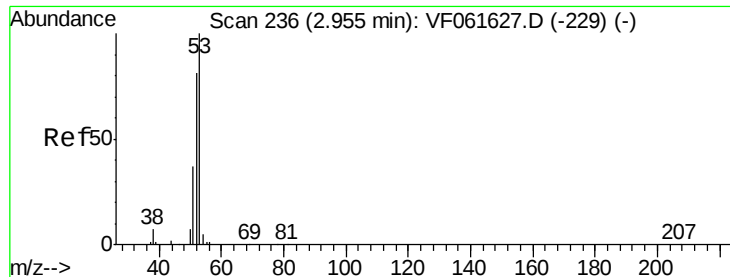
Ion Ratio Lower Upper

41 100

39 83.2 61.6 92.4

76 34.0 30.3 45.5





#15

Acrylonitrile

Concen: 13.315 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

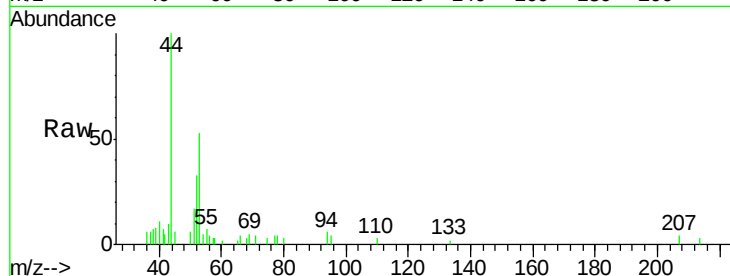
Tot Ion: 53 Resp: 6170

Ion Ratio Lower Upper

53 100

52 61.7 64.6 97.0#

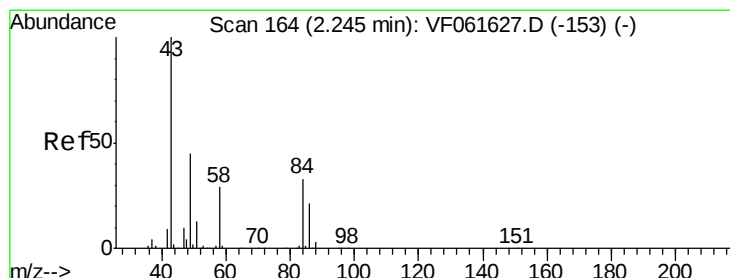
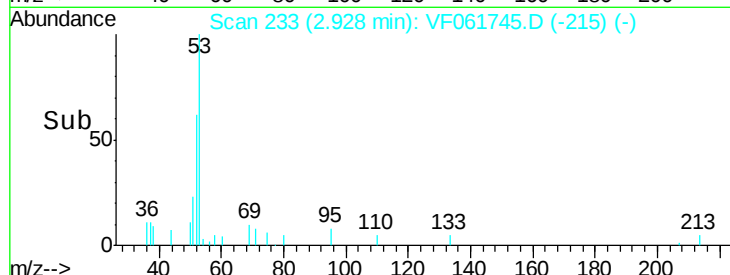
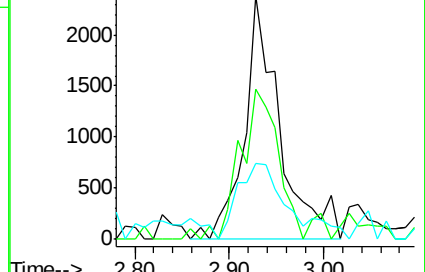
51 31.3 29.8 44.8



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: 18.970 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061745.D

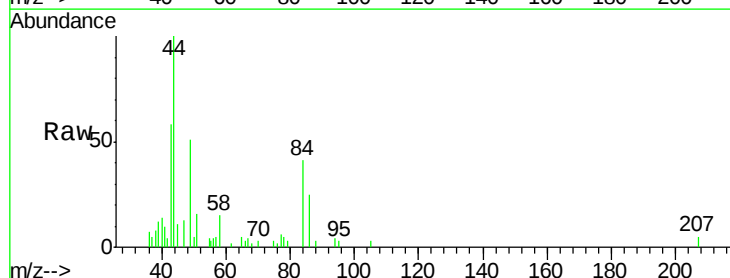
Acq: 26 Feb 2019 16:34

Tgt Ion: 43 Resp: 9188

Ion Ratio Lower Upper

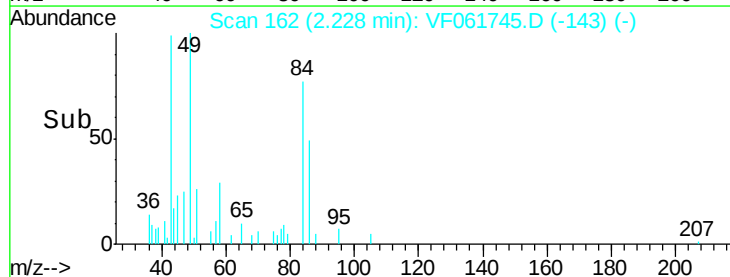
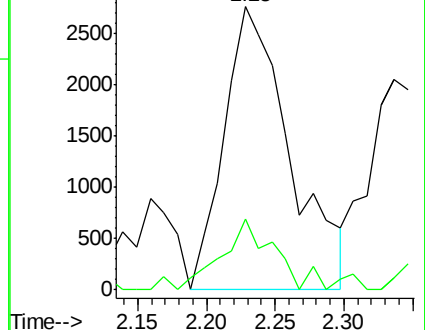
43 100

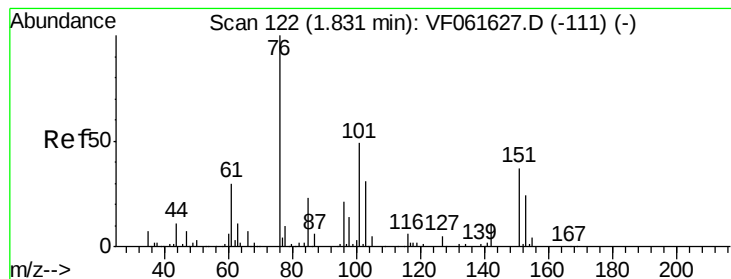
58 25.2 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 0.372 ug/l

RT: 1.75 min Scan# 114

Delta R.T. -0.08 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

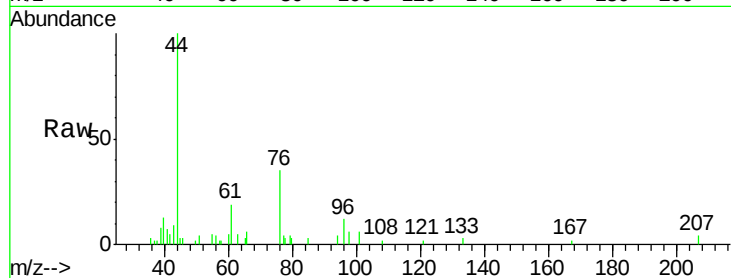
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 3084

Ion Ratio Lower Upper

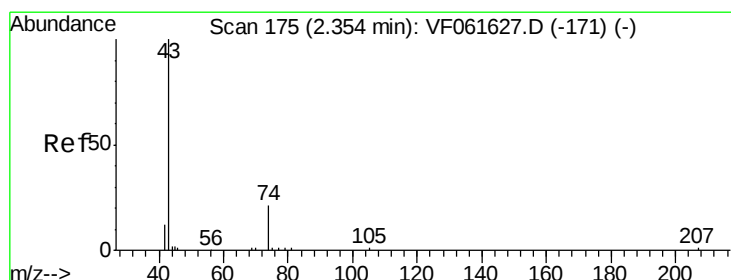
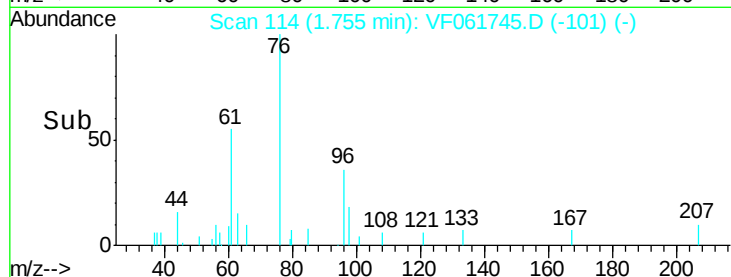
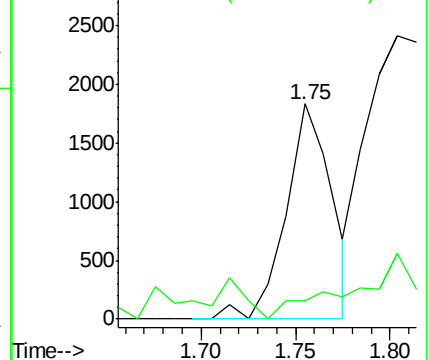
76 100

78 8.7 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 7.924 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF061745.D

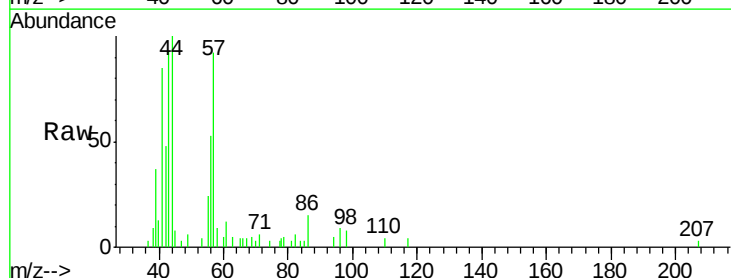
Acq: 26 Feb 2019 16:34

Tgt Ion: 43 Resp: 8646

Ion Ratio Lower Upper

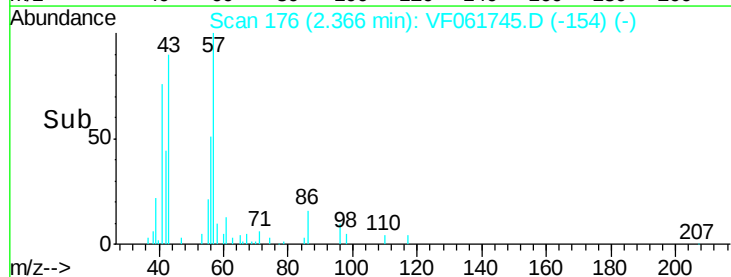
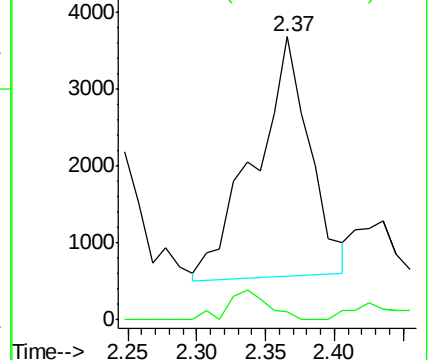
43 100

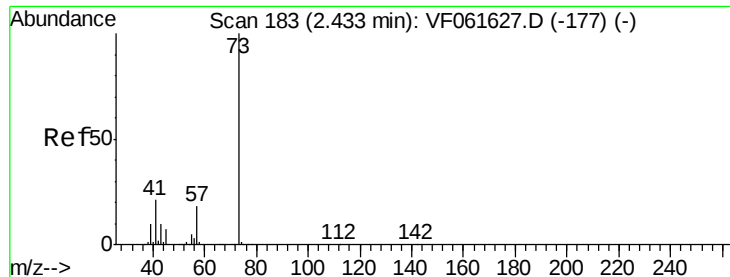
74 2.9 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



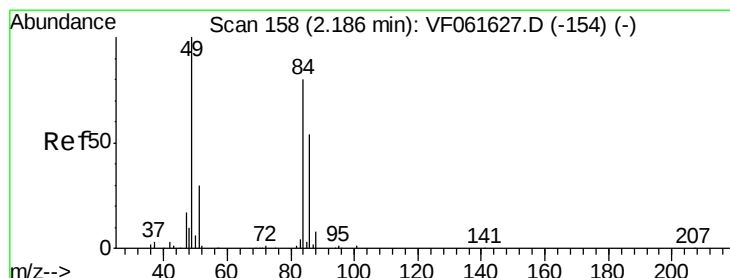
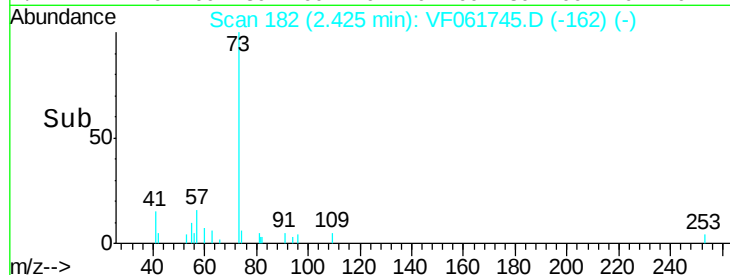
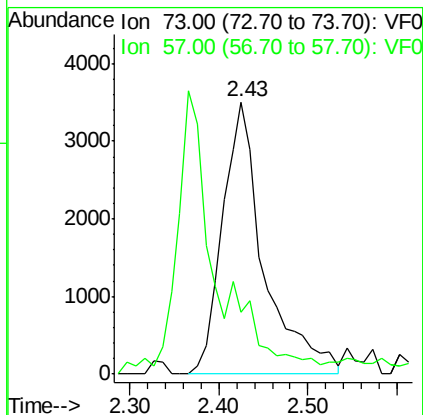
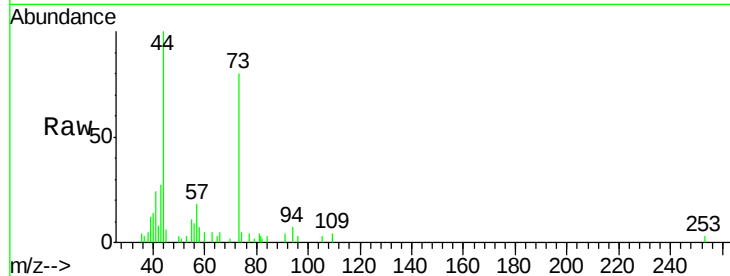


#19

Methyl tert-butyl Ether
 Concen: 2.531 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

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

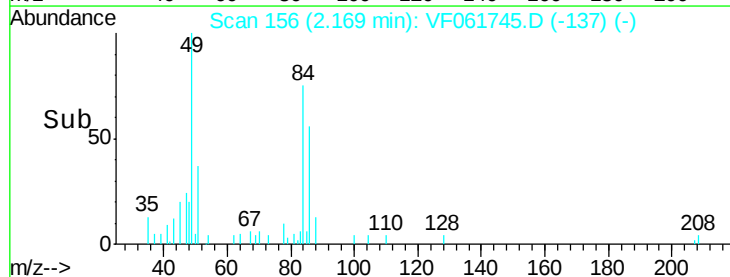
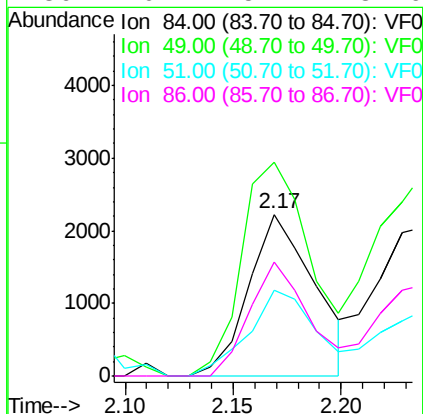
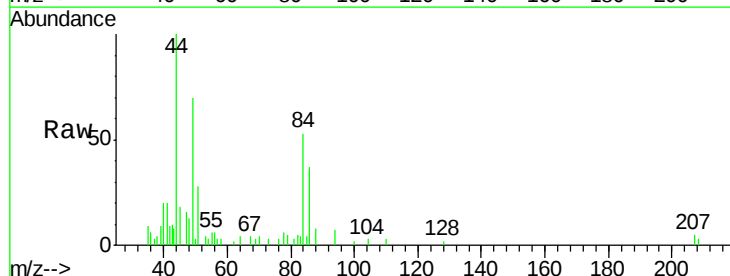
Tot Ion: 73 Resp: 11411
 Ion Ratio Lower Upper
 73 100
 57 23.0 15.8 23.8

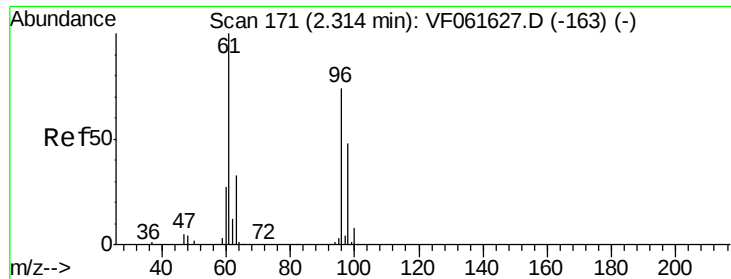


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.17 min Scan# 156
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion: 84 Resp: 4731
 Ion Ratio Lower Upper
 84 100
 49 132.2 101.8 152.8
 51 52.8 31.1 46.7#
 86 70.7 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 2.766 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

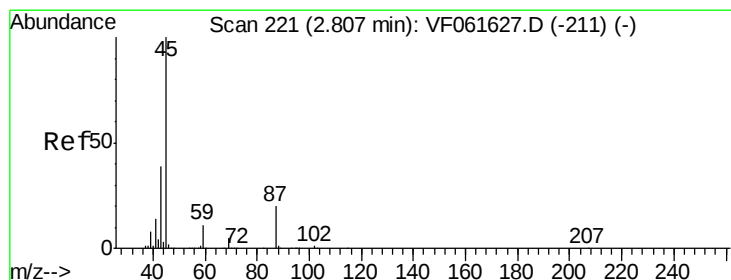
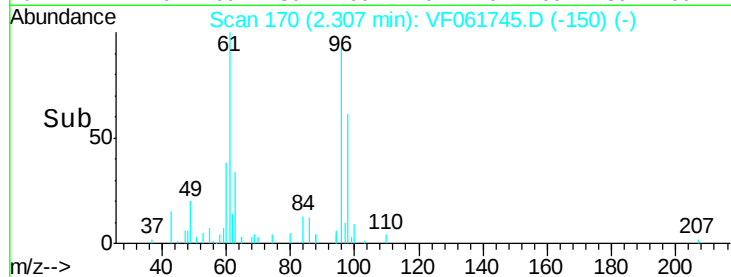
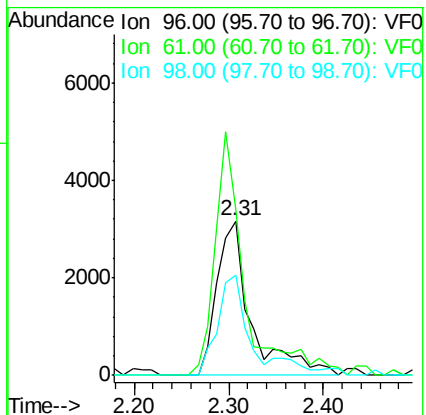
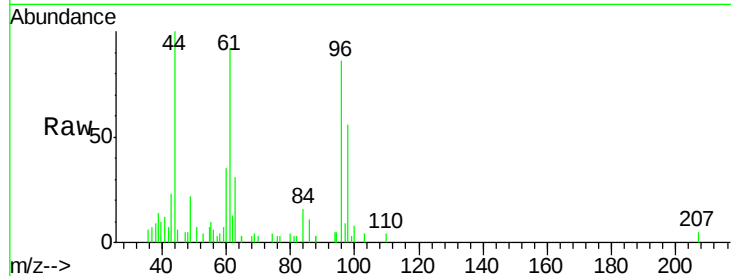
Tot Ion: 96 Resp: 7933

Ion Ratio Lower Upper

96 100

61 107.4 108.2 162.4#

98 65.3 52.2 78.2



#22

Diisopropyl ether

Concen: 2.787 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion: 45 Resp: 21654

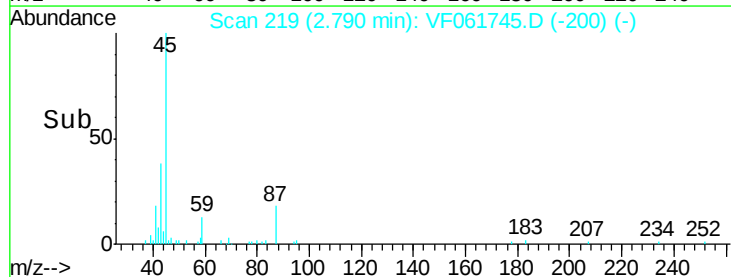
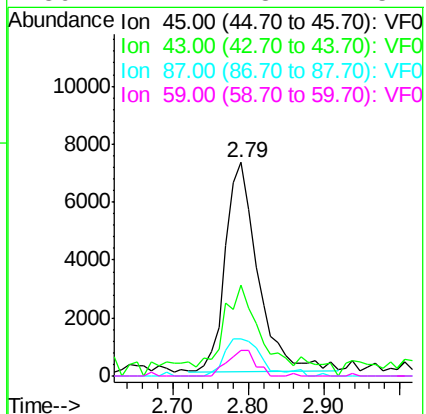
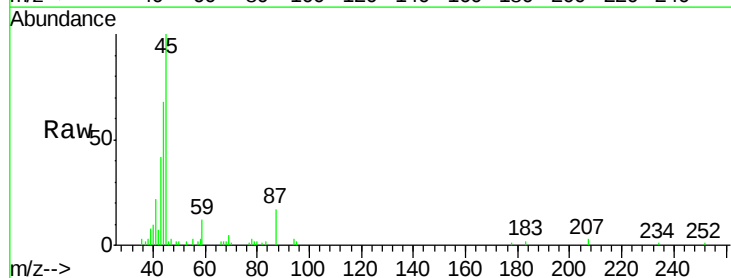
Ion Ratio Lower Upper

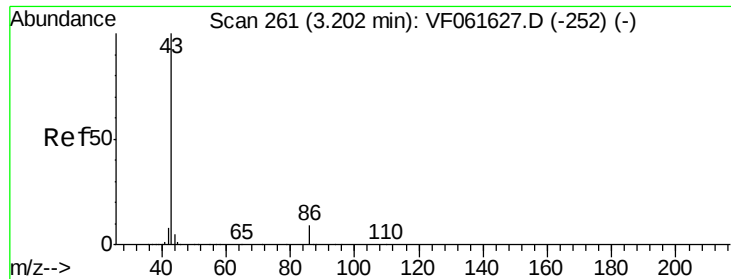
45 100

43 42.4 31.4 47.2

87 17.5 16.3 24.5

59 12.1 8.7 13.1





#23

Vinyl Acetate

Concen: 10.218 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

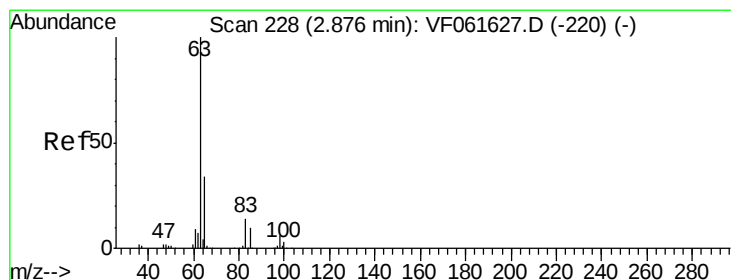
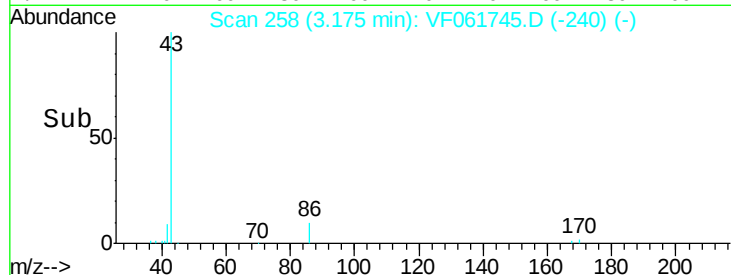
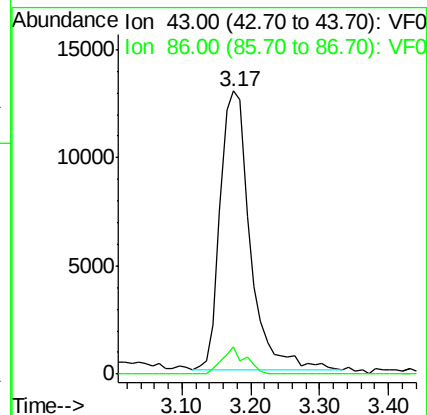
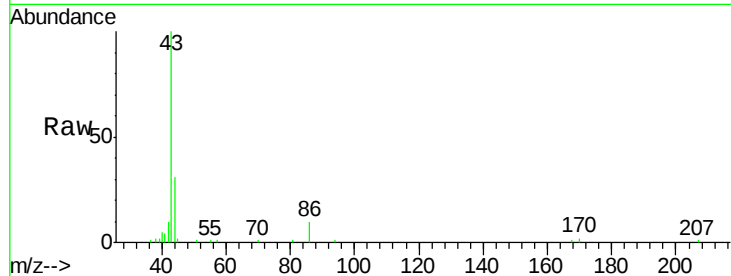
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 38777

Ion Ratio Lower Upper

43 100

86 9.8 7.5 11.3



#24

1,1-Dichloroethane

Concen: 2.675 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

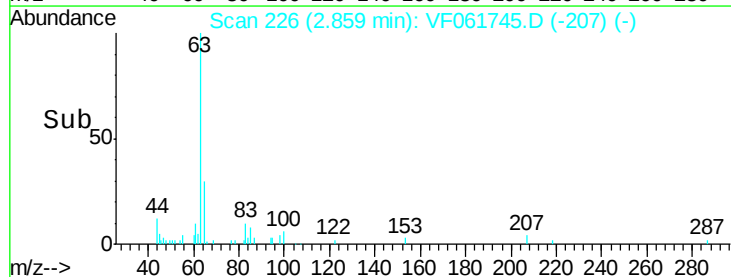
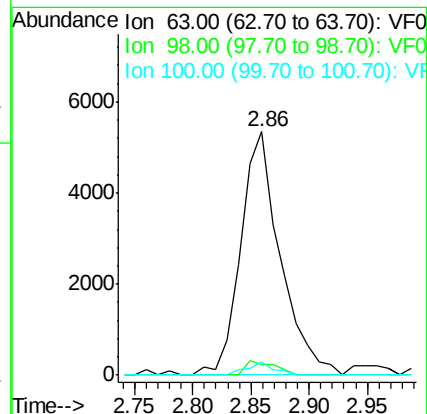
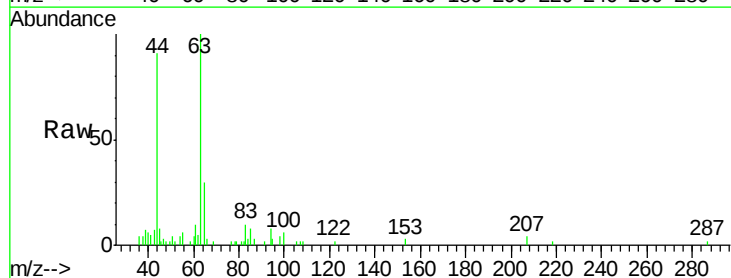
Tgt Ion: 63 Resp: 12580

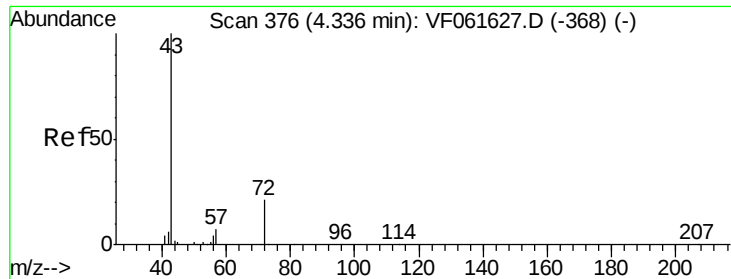
Ion Ratio Lower Upper

63 100

98 4.3 2.8 8.3

100 5.7 1.8 5.4#





#25

2-Butanone

Concen: 12.831 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

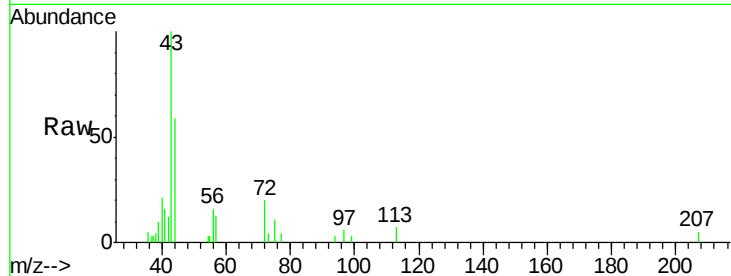
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 13575

Ion Ratio Lower Upper

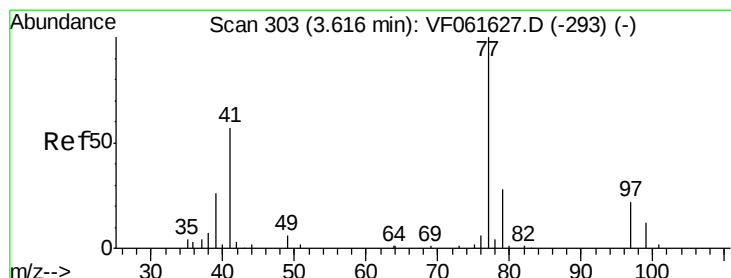
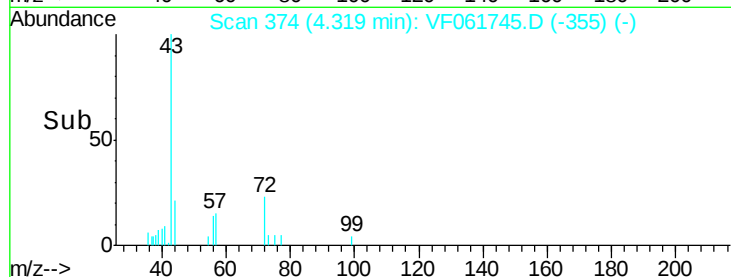
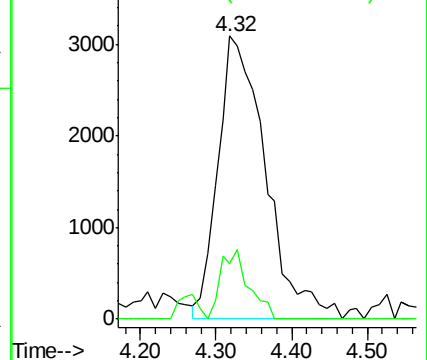
43 100

72 19.5 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 2.834 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.03 min

Lab File: VF061745.D

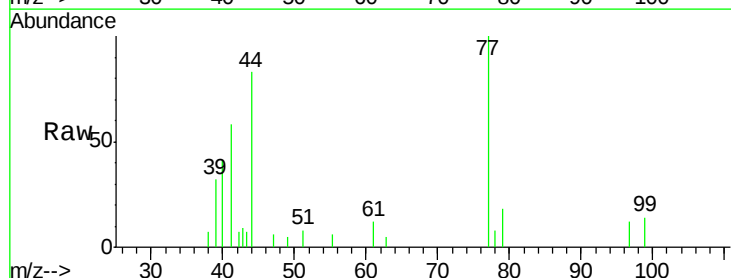
Acq: 26 Feb 2019 16:34

Tgt Ion: 77 Resp: 5645

Ion Ratio Lower Upper

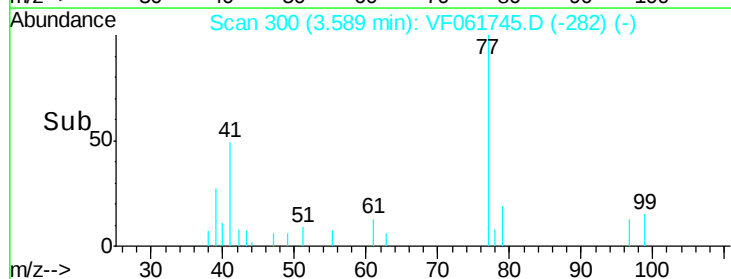
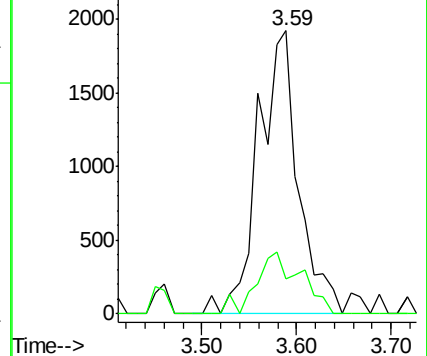
77 100

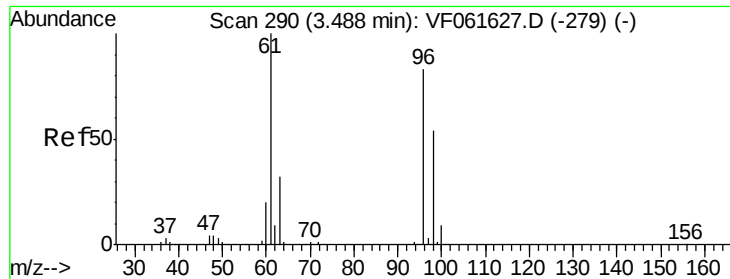
97 12.2 11.7 35.0



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



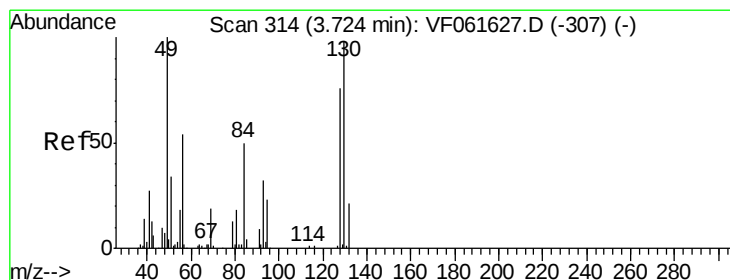
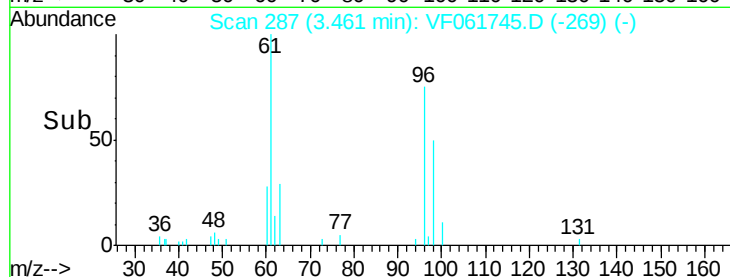
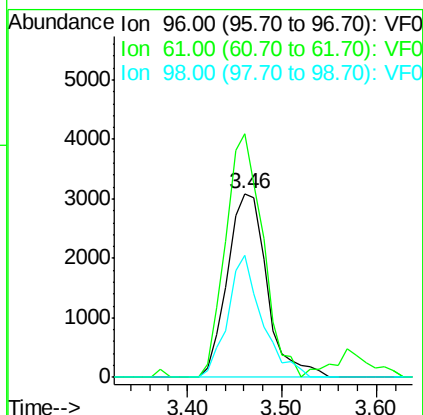
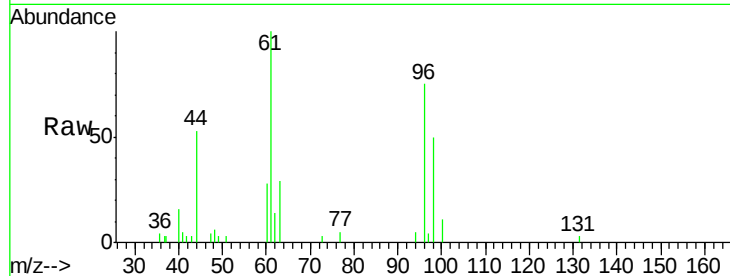


#27

cis-1,2-Dichloroethene
Concen: 2.378 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

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

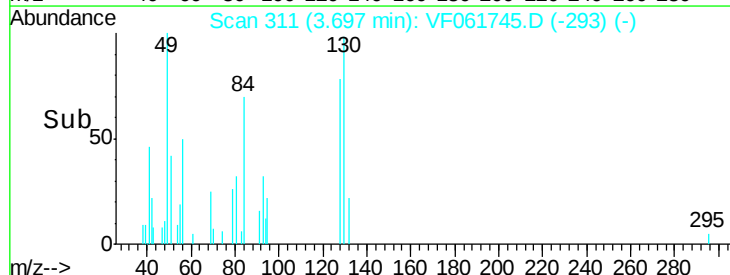
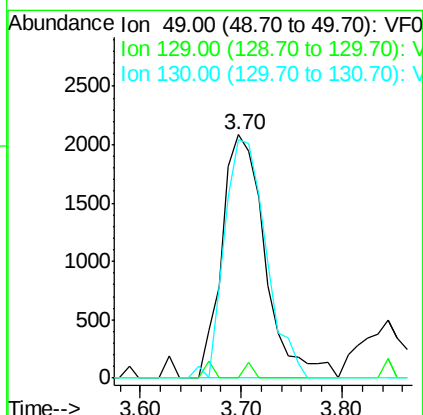
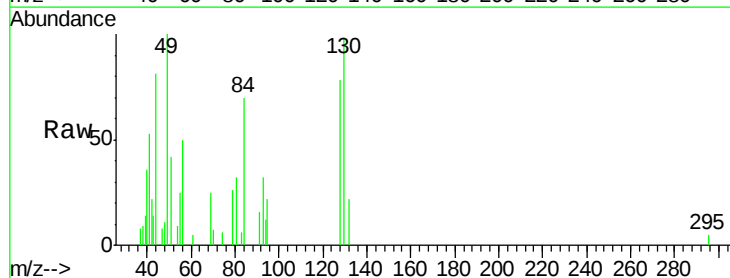
Tot Ion	Ratio	Lower	Upper
96	100		
61	132.6	0.0	241.6
98	66.3	0.0	130.2

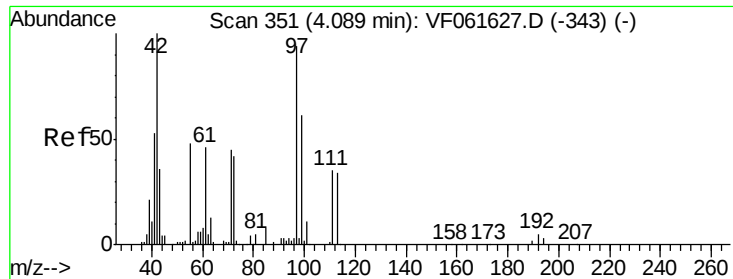


#28

Bromochloromethane
Concen: 2.760 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	98.1	77.7	116.5

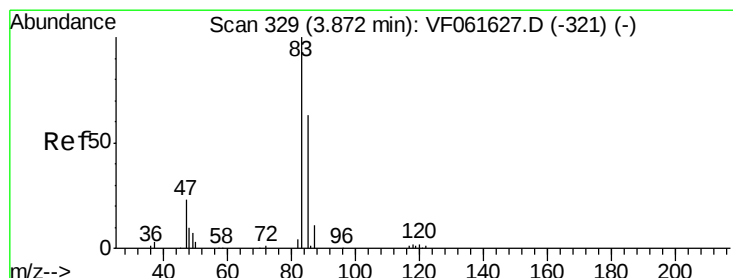
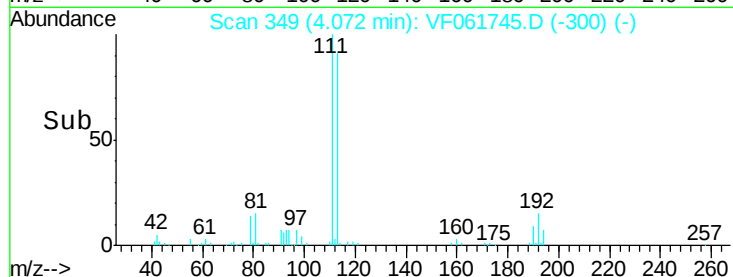
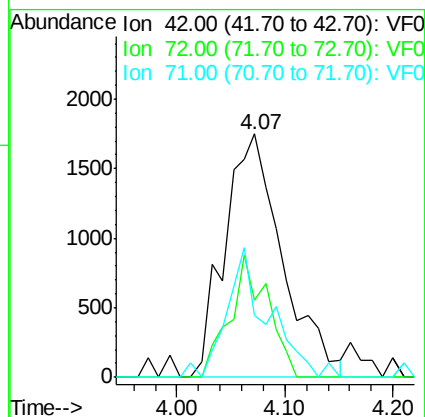
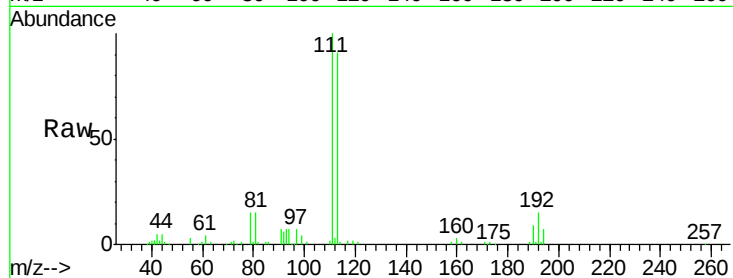




#29
Tetrahydrofuran
Concen: 13.543 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

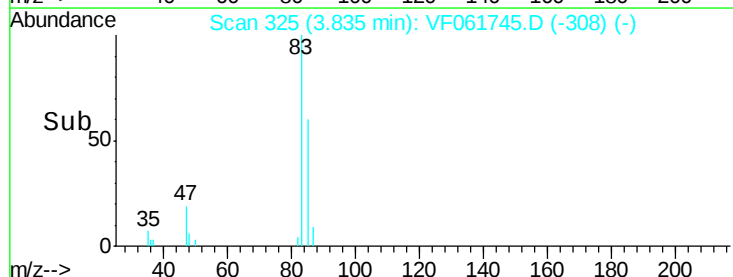
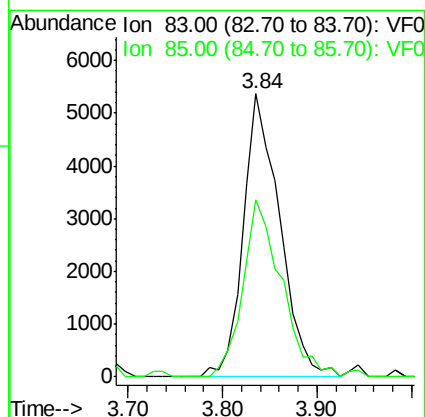
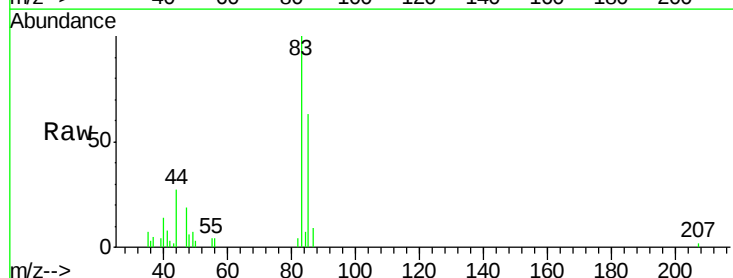
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

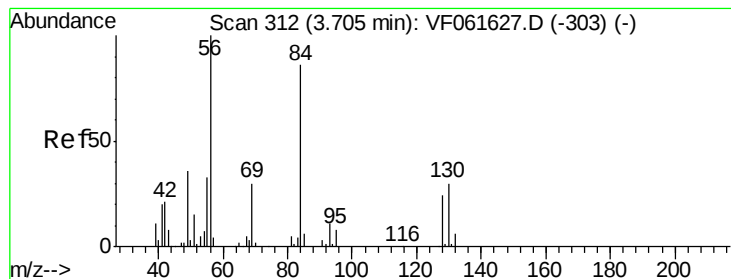
Tot Ion: 42 Resp: 6512
Ion Ratio Lower Upper
42 100
72 33.1 35.2 52.8#
71 38.5 32.9 49.3



#30
Chloroform
Concen: 2.688 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.04 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion: 83 Resp: 14376
Ion Ratio Lower Upper
83 100
85 62.7 51.1 76.7





#31

Cyclohexane

Concen: 1.586 ug/l

RT: 3.67 min Scan# 308

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

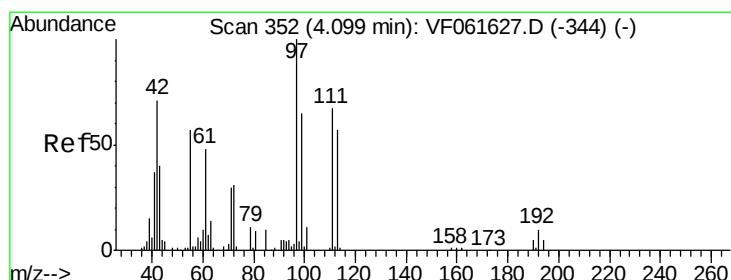
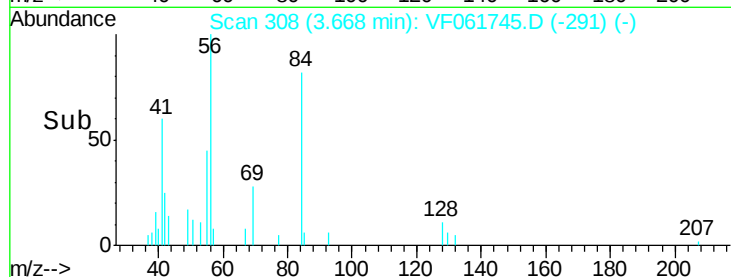
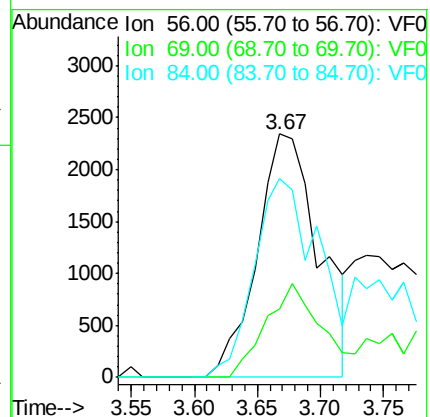
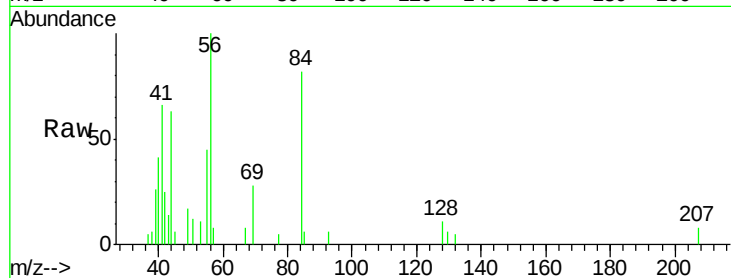
Tot Ion: 56 Resp: 8073

Ion Ratio Lower Upper

56 100

69 27.9 23.8 35.8

84 81.7 68.6 103.0



#32

1,1,1-Trichloroethane

Concen: 2.426 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

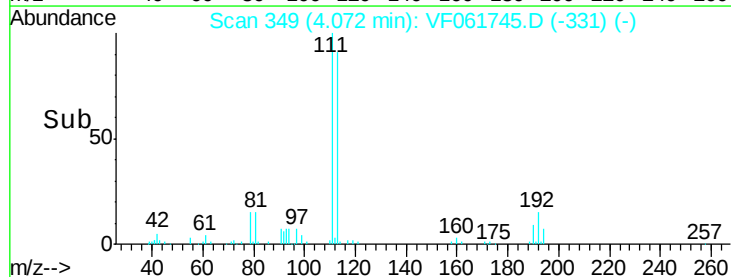
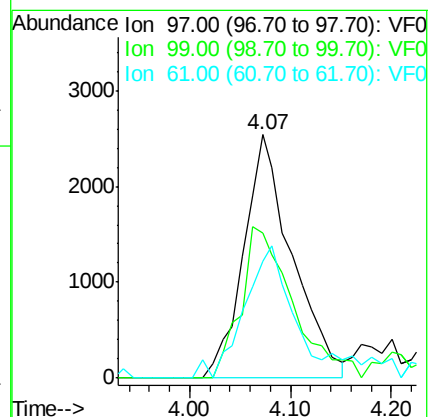
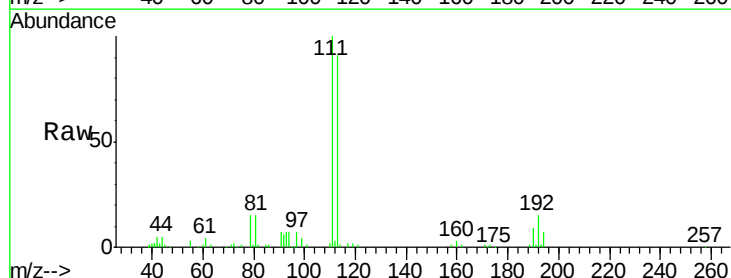
Tgt Ion: 97 Resp: 8499

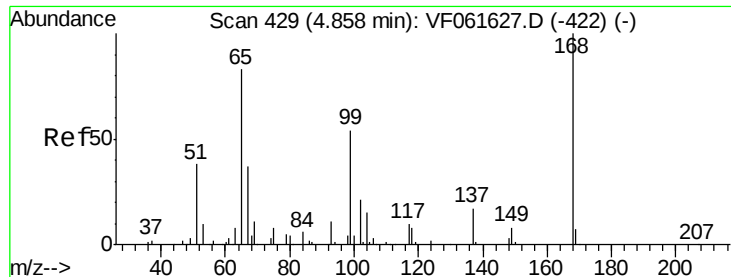
Ion Ratio Lower Upper

97 100

99 59.4 52.2 78.2

61 47.8 39.2 58.8

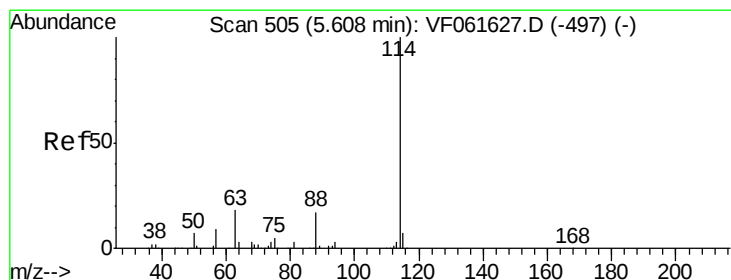
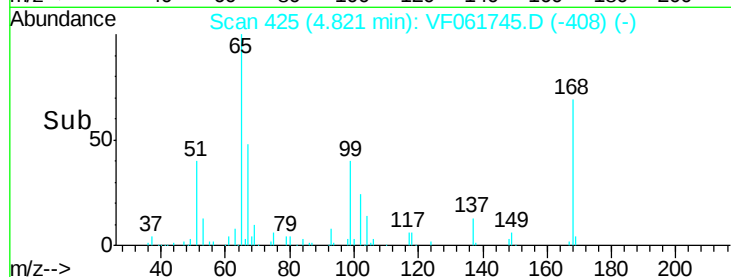
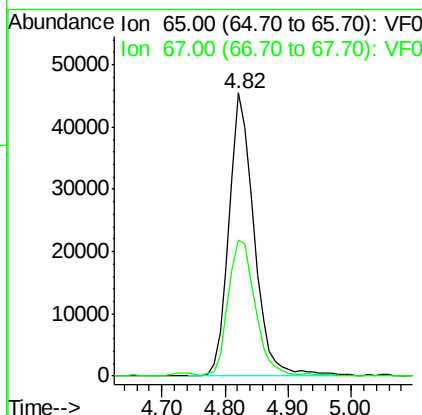
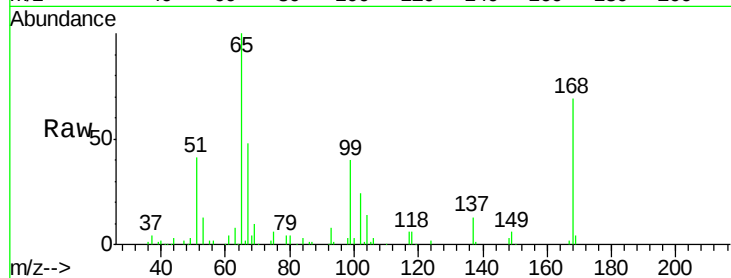




#33
 1,2-Dichloroethane-d4
 Concen: 55.481 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.04 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

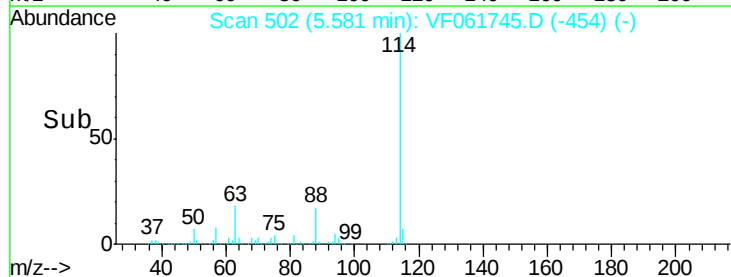
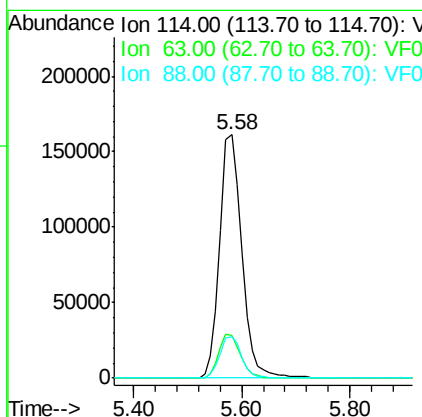
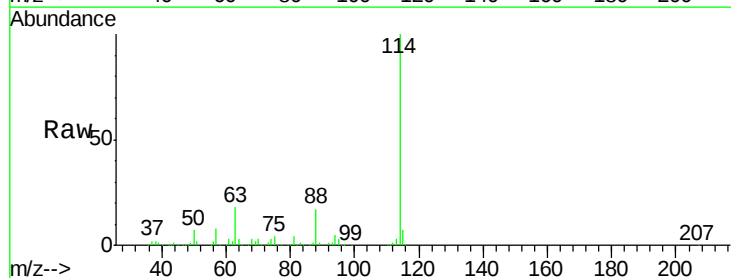
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

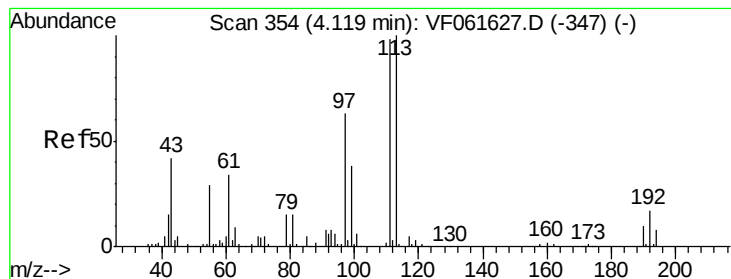
Tot Ion: 65 Resp: 125242
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion: 114 Resp: 460112
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 36.6
 88 17.2 0.0 34.4





#35

Dibromofluoromethane

Concen: 54.302 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

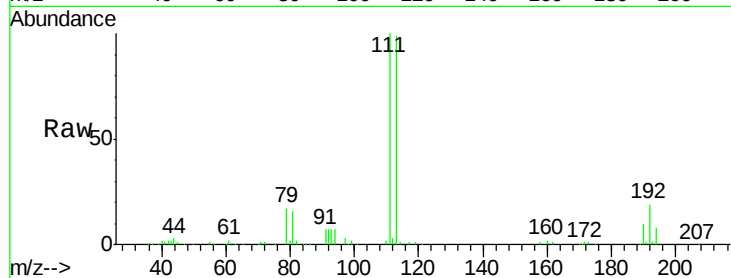
Tot Ion:113 Resp: 185541

Ion Ratio Lower Upper

113 100

111 100.8 78.8 118.2

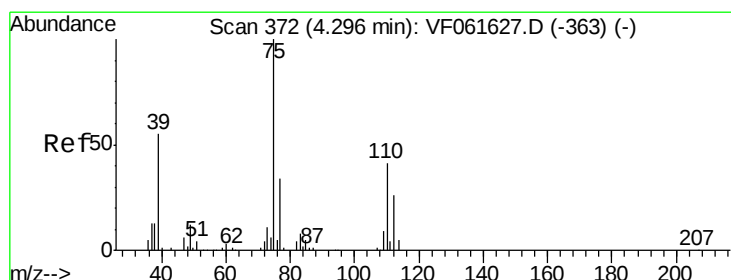
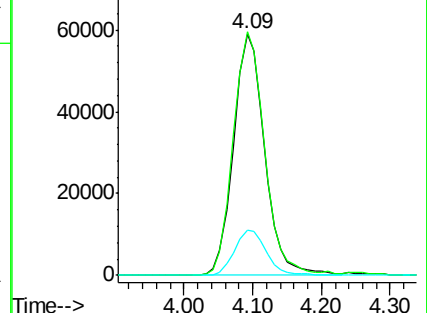
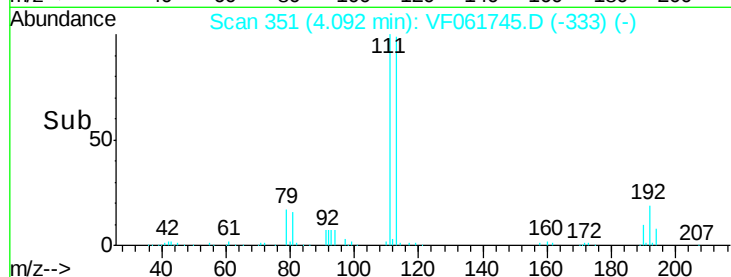
192 18.9 13.4 20.0



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: 2.809 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

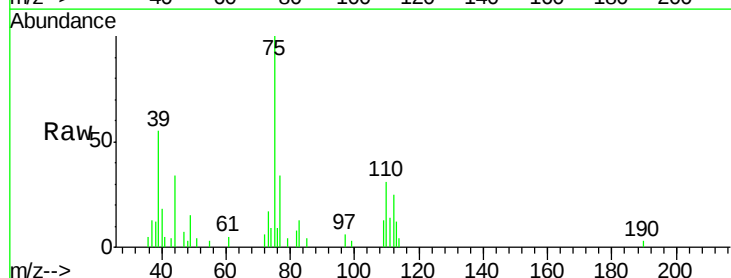
Tgt Ion: 75 Resp: 12805

Ion Ratio Lower Upper

75 100

110 30.8 20.5 61.6

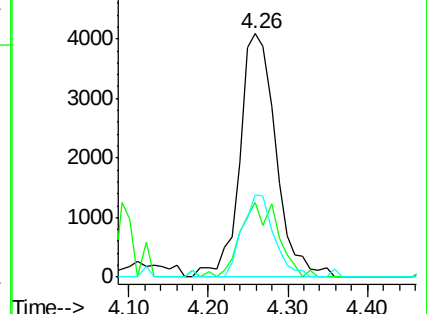
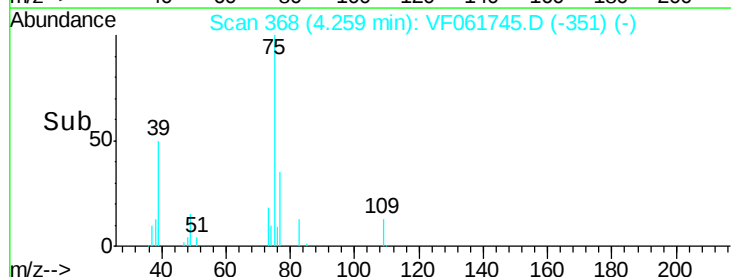
77 33.7 27.0 40.4

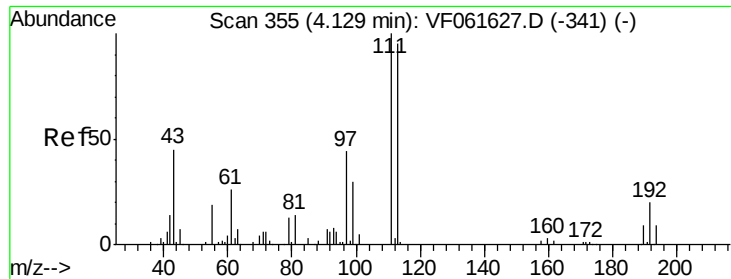


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

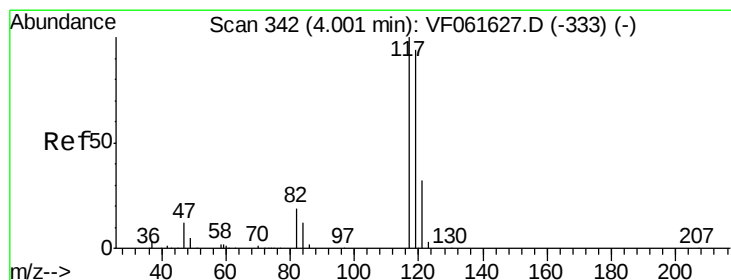
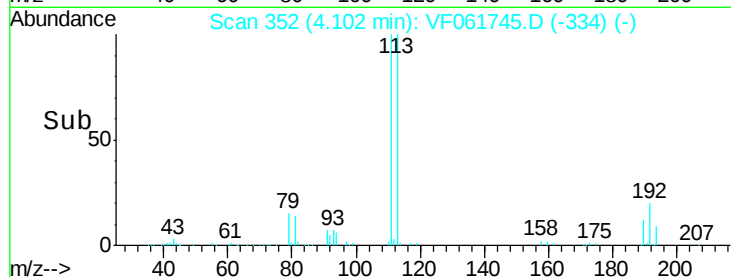
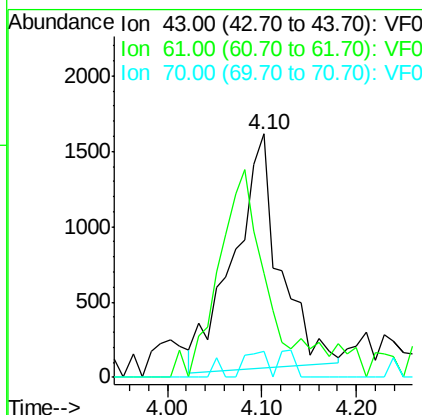
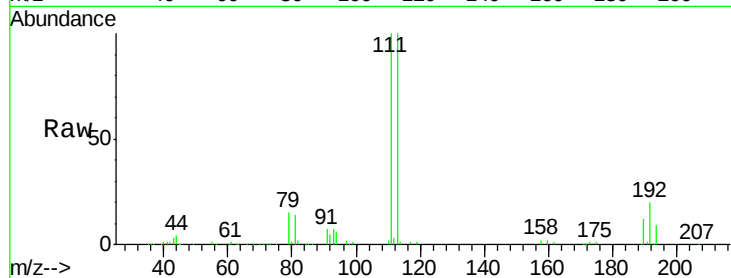




#37
Ethyl Acetate
Concen: 2.455 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

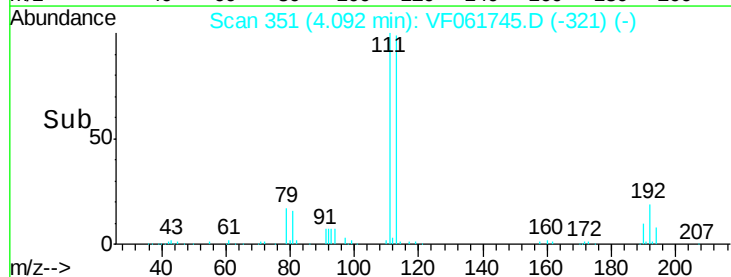
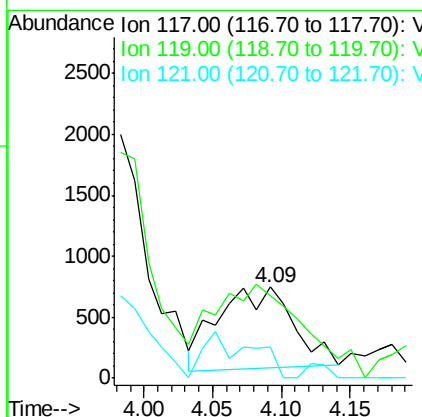
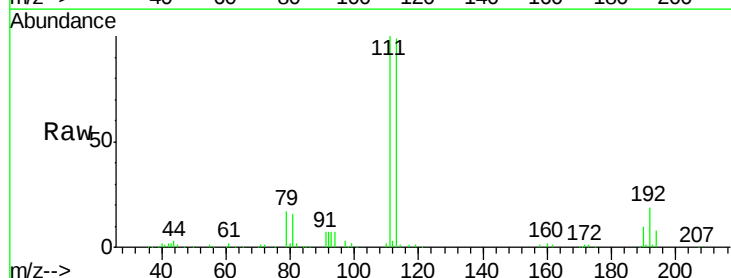
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

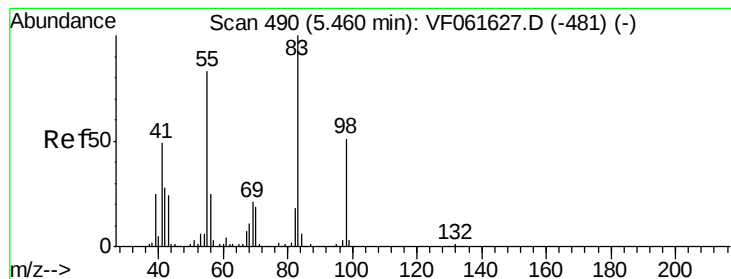
Tot Ion: 43 Resp: 5197
Ion Ratio Lower Upper
43 100
61 42.8 45.7 68.5#
70 10.6 8.5 12.7



#38
Carbon Tetrachloride
Concen: 0.800 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.09 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion: 117 Resp: 2517
Ion Ratio Lower Upper
117 100
119 91.1 75.6 113.4
121 34.7 25.2 37.8





#39

Methvlcvclohexane

Concen: 2.581 ug/l

RT: 5.44 min Scan# 488

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

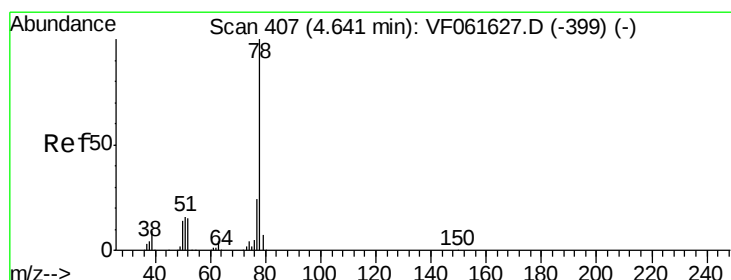
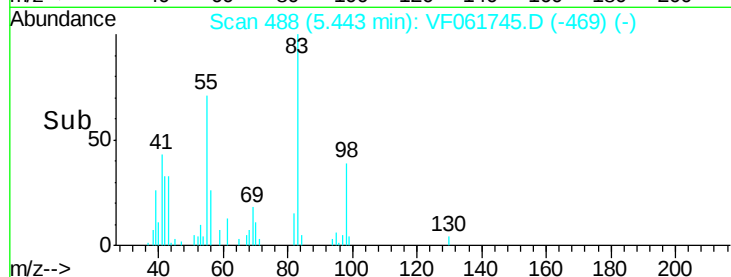
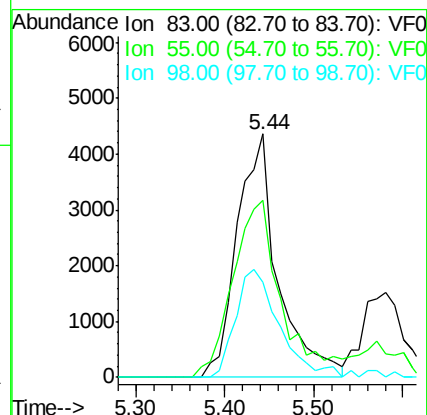
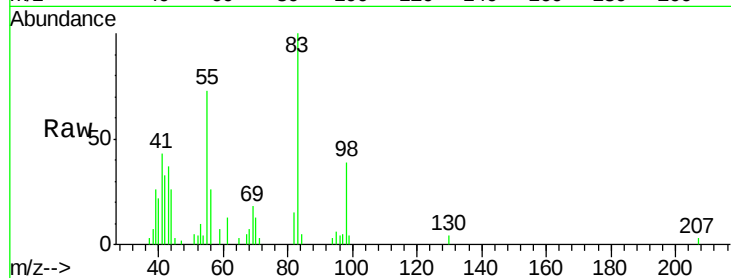
Tot Ion: 83 Resp: 13914

Ion Ratio Lower Upper

83 100

55 72.9 66.6 99.8

98 39.3 40.4 60.6#



#40

Benzene

Concen: 2.604 ug/l

RT: 4.61 min Scan# 404

Delta R.T. -0.03 min

Lab File: VF061745.D

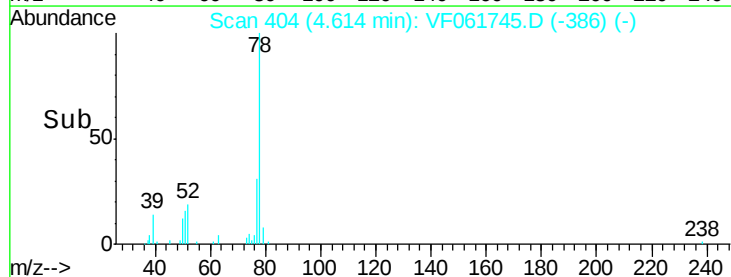
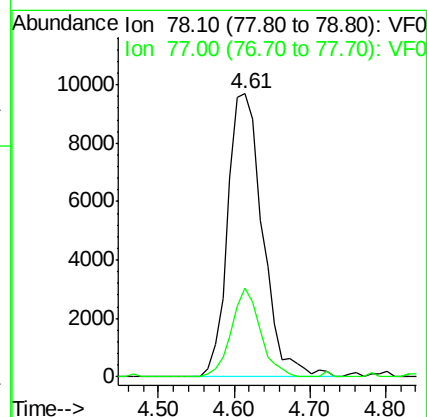
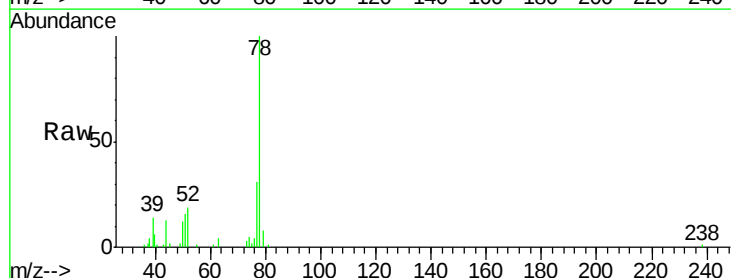
Acq: 26 Feb 2019 16:34

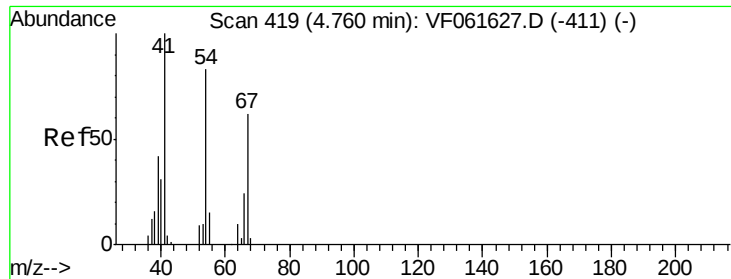
Tgt Ion: 78 Resp: 31046

Ion Ratio Lower Upper

78 100

77 31.2 19.0 28.6#

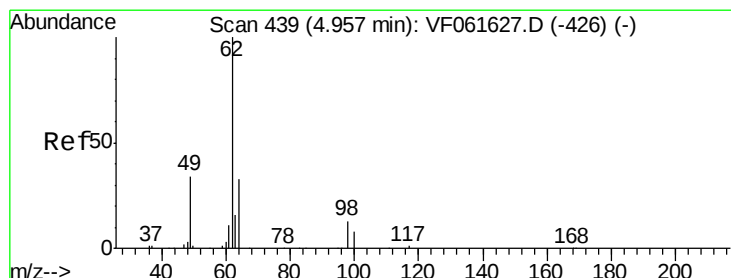
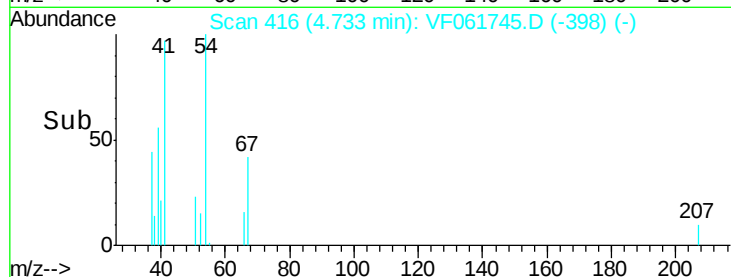
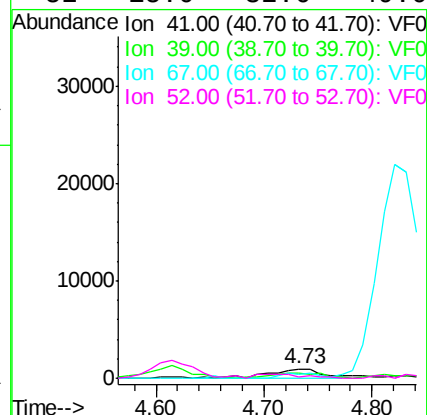
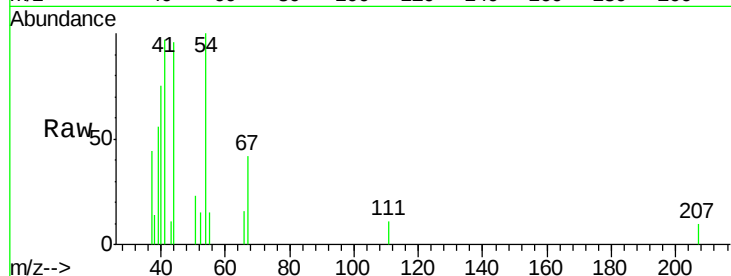




#41
Methacrylonitrile
Concen: 3.006 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

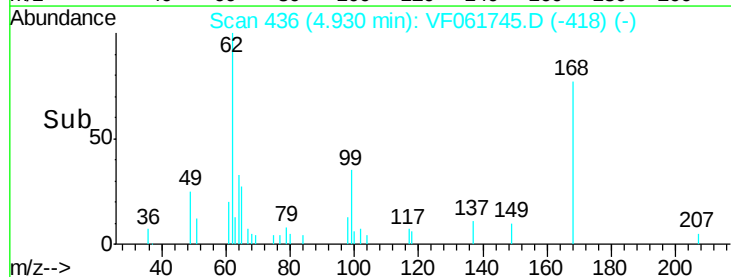
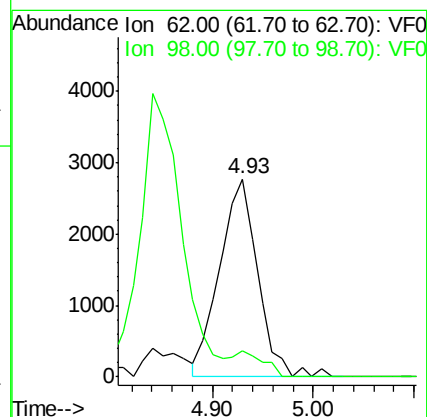
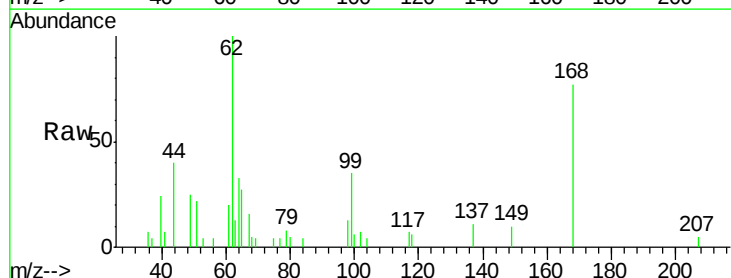
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 41 Resp: 3255
Ion Ratio Lower Upper
41 100
39 57.3 45.3 67.9
67 43.2 49.3 73.9#
52 15.0 32.6 49.0#



#42
1,2-Dichloroethane
Concen: 2.562 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion: 62 Resp: 7306
Ion Ratio Lower Upper
62 100
98 13.0 0.0 26.0





#43

Isopropyl Acetate

Concen: 2.479 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

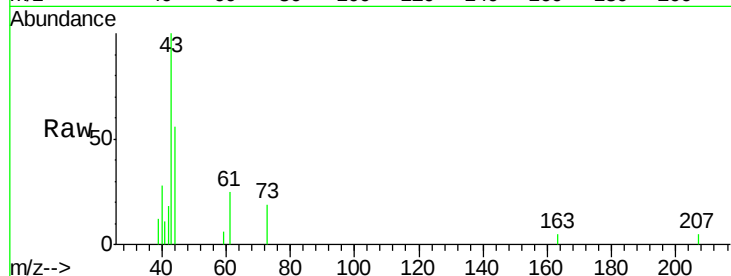
Tot Ion: 43 Resp: 6213

Ion Ratio Lower Upper

43 100

61 24.8 25.8 38.6#

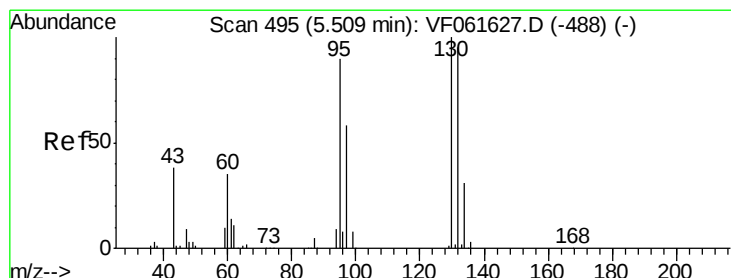
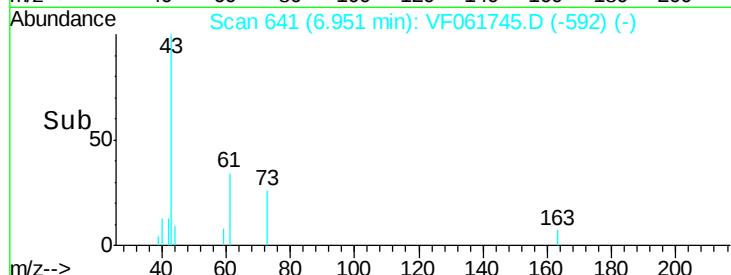
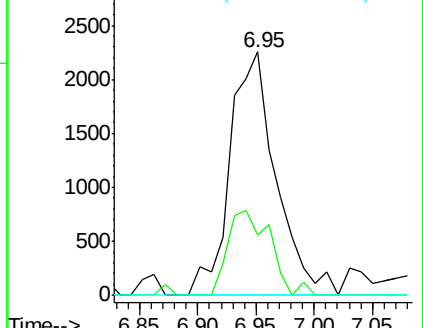
87 0.0 0.4 0.6#



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: 2.746 ug/l

RT: 5.48 min Scan# 492

Delta R.T. -0.03 min

Lab File: VF061745.D

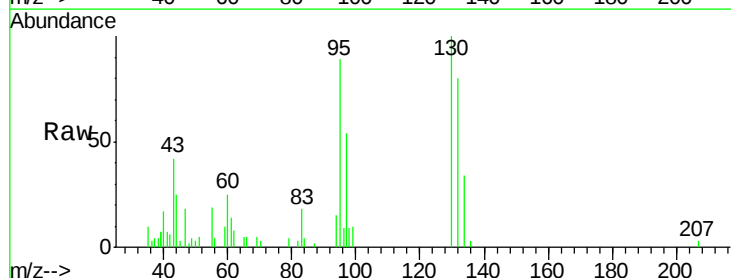
Acq: 26 Feb 2019 16:34

Tgt Ion:130 Resp: 10586

Ion Ratio Lower Upper

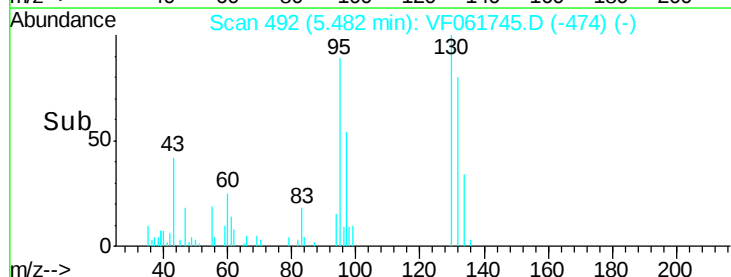
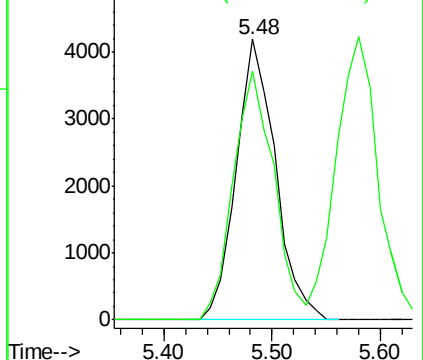
130 100

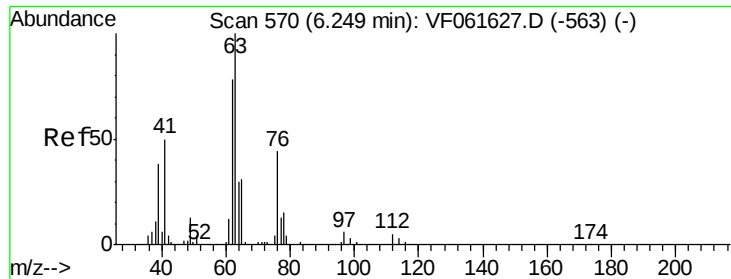
95 88.8 0.0 179.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 2.656 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

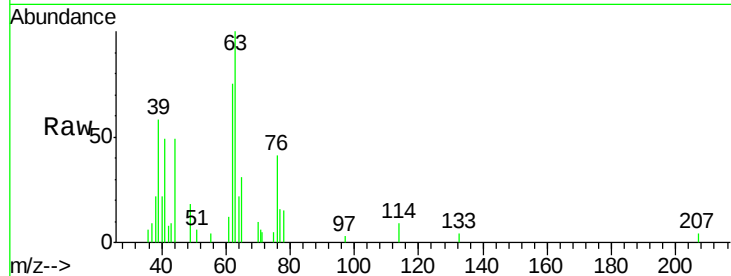
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 63 Resp: 7653

Ion Ratio Lower Upper

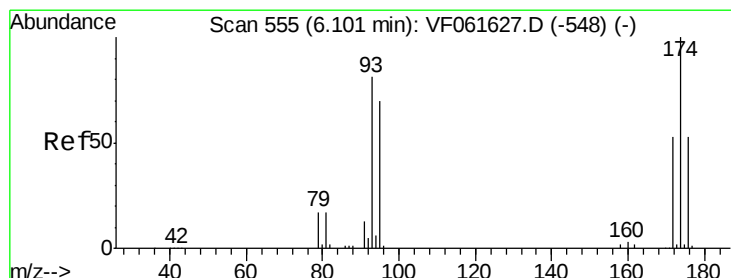
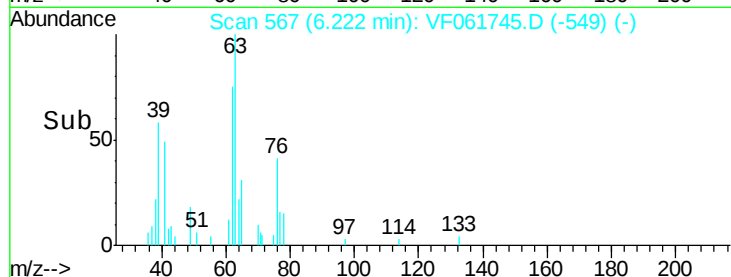
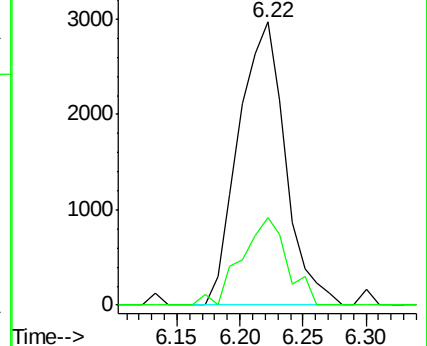
63 100

65 30.9 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 2.506 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

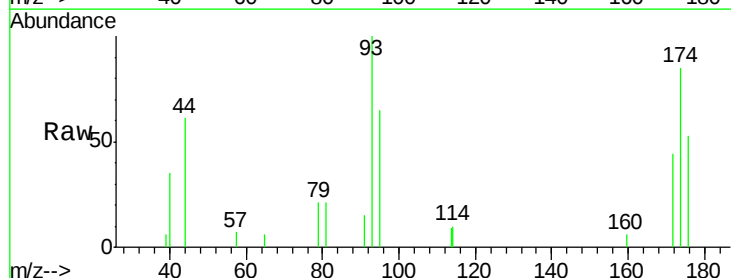
Tgt Ion: 93 Resp: 4446

Ion Ratio Lower Upper

93 100

95 65.3 69.0 103.6#

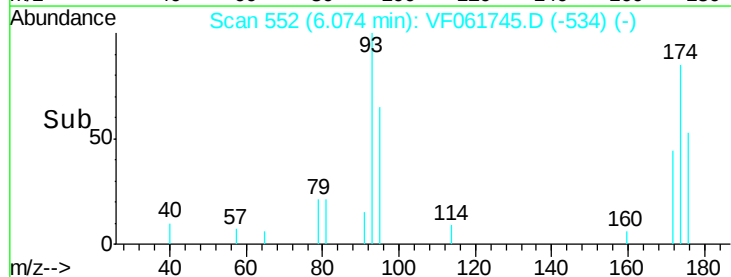
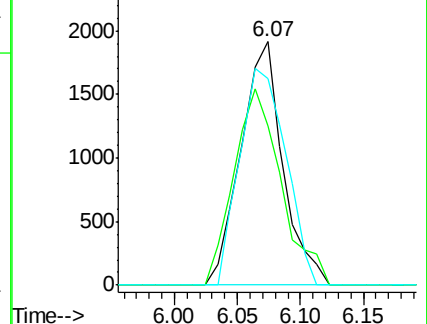
174 85.0 99.3 148.9#

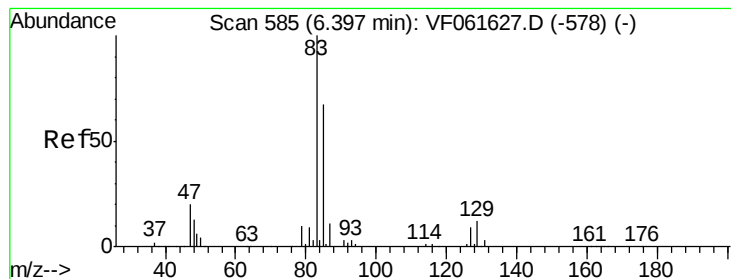


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 2.535 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

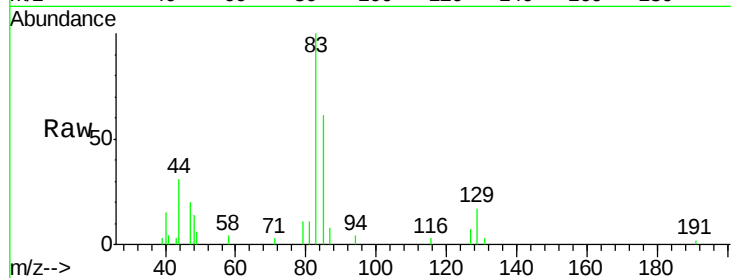
Tot Ion: 83 Resp: 9848

Ion Ratio Lower Upper

83 100

85 61.1 53.4 80.2

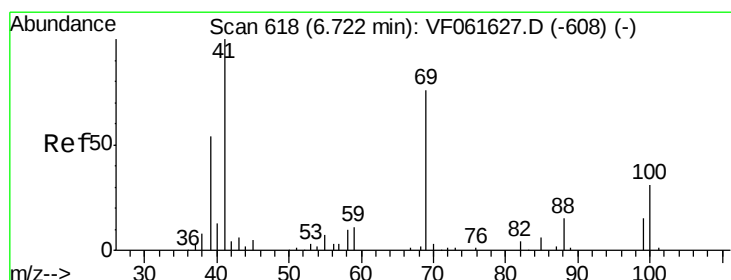
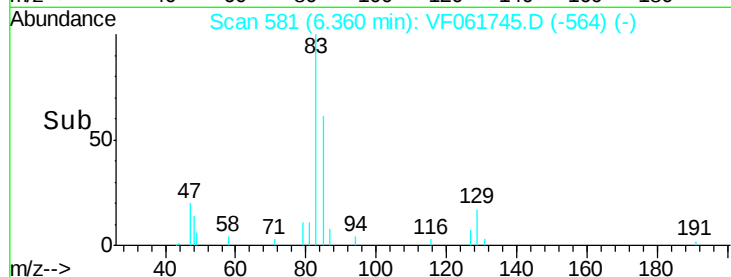
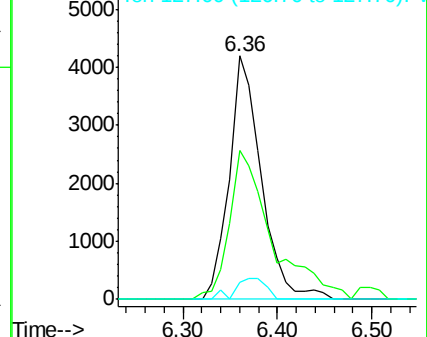
127 7.2 7.5 11.3#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 2.593 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

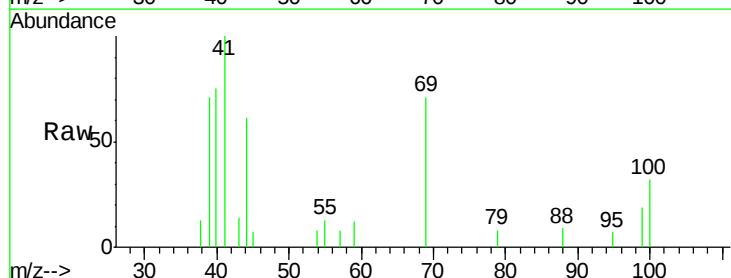
Tgt Ion: 41 Resp: 3911

Ion Ratio Lower Upper

41 100

69 70.9 60.4 90.6

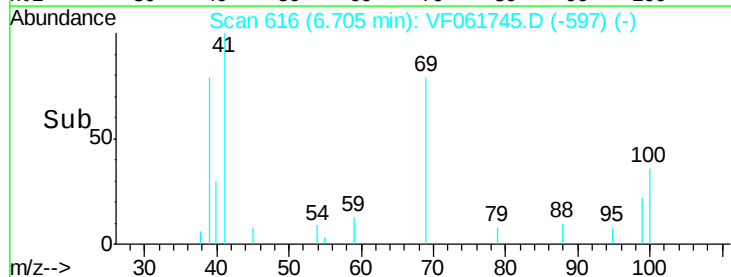
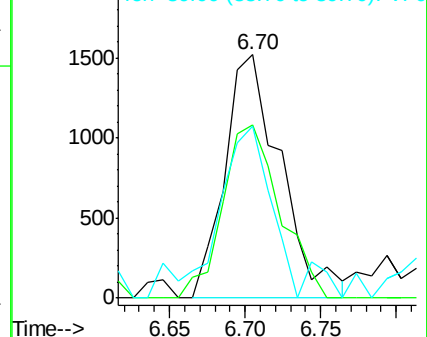
39 70.8 43.7 65.5#

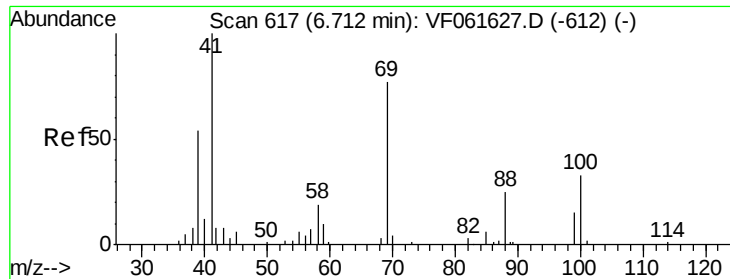


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

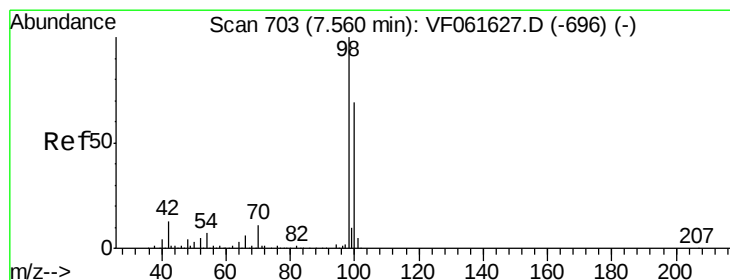
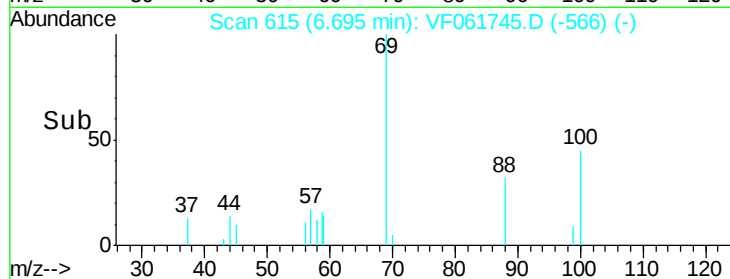
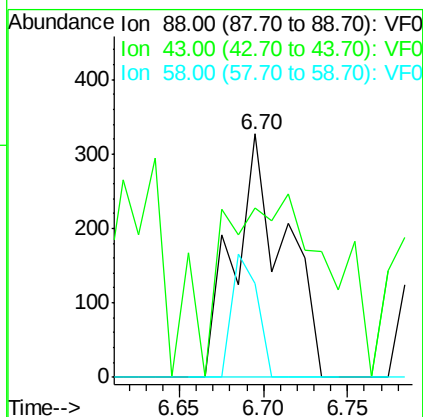
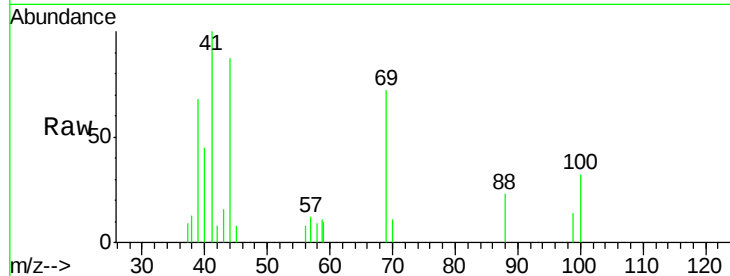




#49
 1,4-Dioxane
 Concen: 48.108 ug/l
 RT: 6.70 min Scan# 615
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

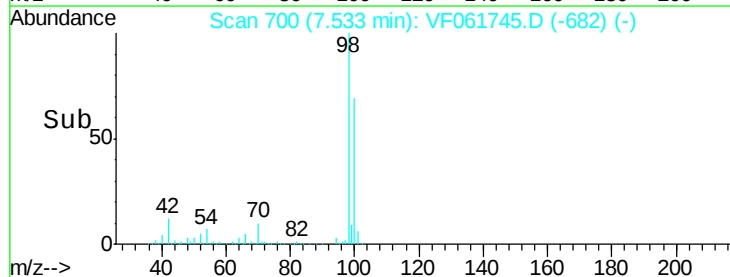
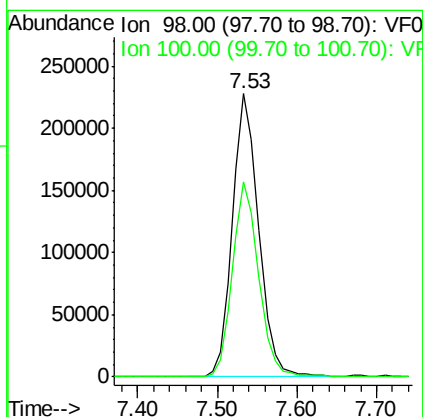
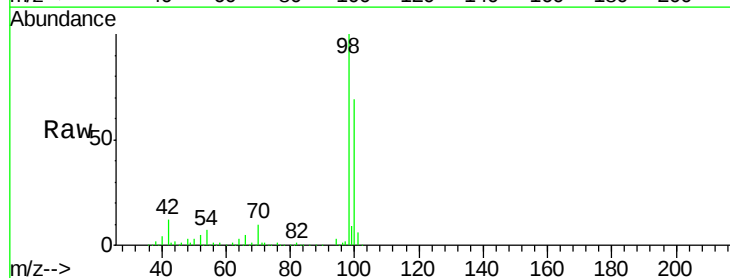
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

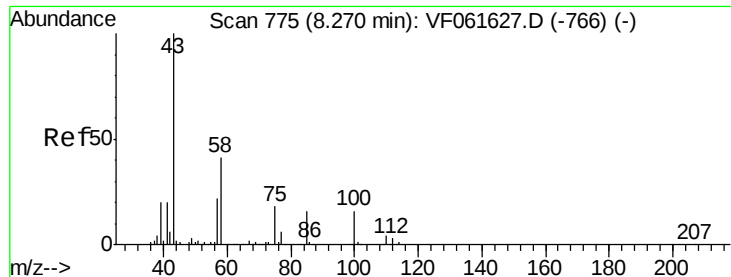
Tot Ion: 88 Resp: 682
 Ion Ratio Lower Upper
 88 100
 43 69.7 32.3 48.5#
 58 38.5 59.4 89.2#



#50
 Toluene-d8
 Concen: 53.513 ug/l
 RT: 7.53 min Scan# 700
 Delta R.T. -0.03 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion: 98 Resp: 525630
 Ion Ratio Lower Upper
 98 100
 100 68.8 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 12.660 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

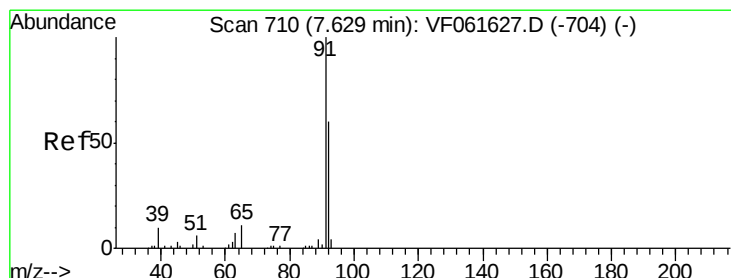
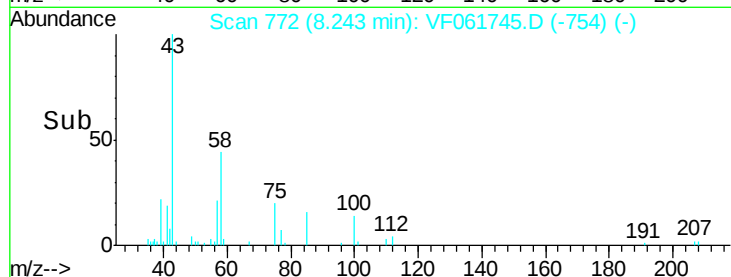
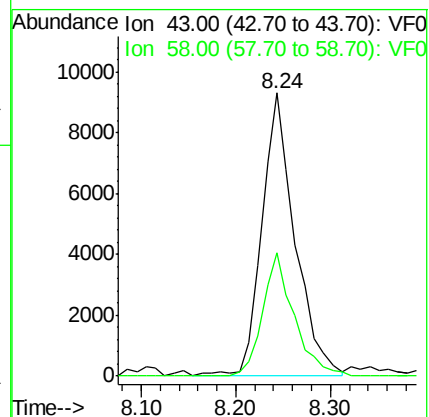
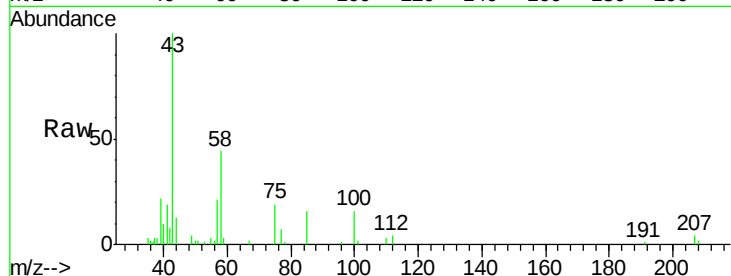
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 22669

Ion Ratio Lower Upper

43 100

58 43.7 33.1 49.7



#52

Toluene

Concen: 2.503 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061745.D

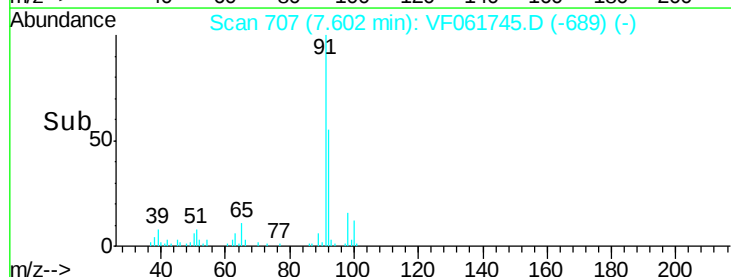
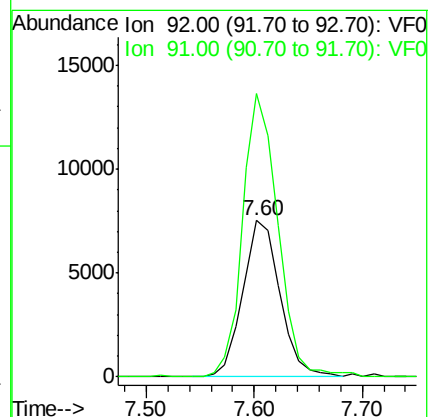
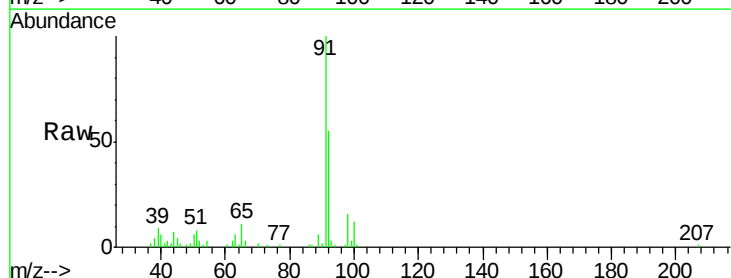
Acq: 26 Feb 2019 16:34

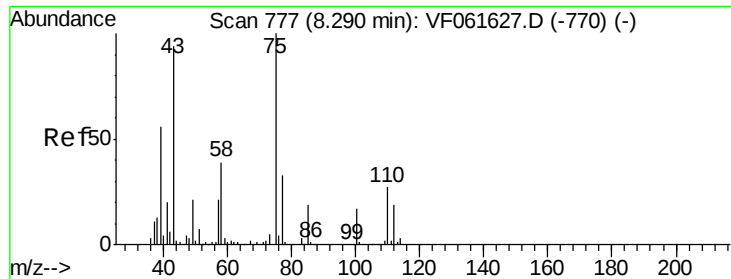
Tgt Ion: 92 Resp: 18095

Ion Ratio Lower Upper

92 100

91 181.2 133.9 200.9





#53

t-1,3-Dichloropropene

Concen: 2.555 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

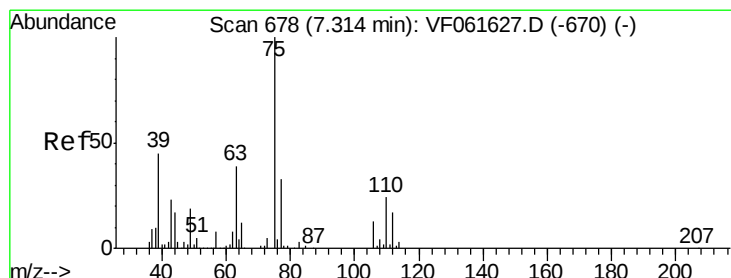
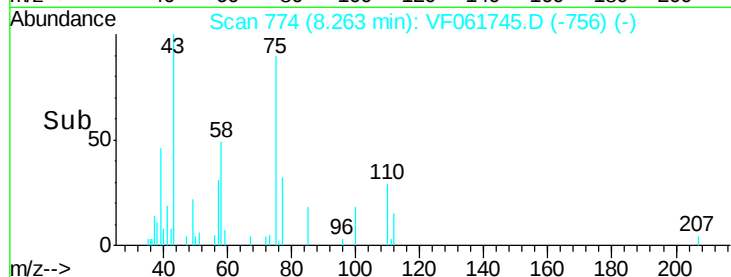
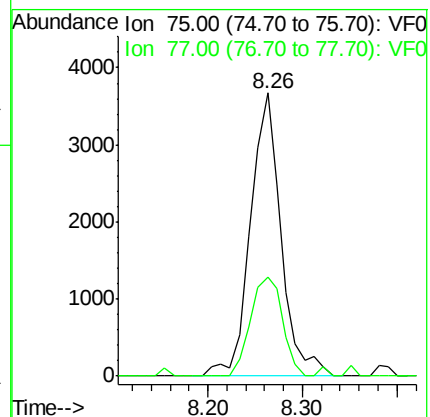
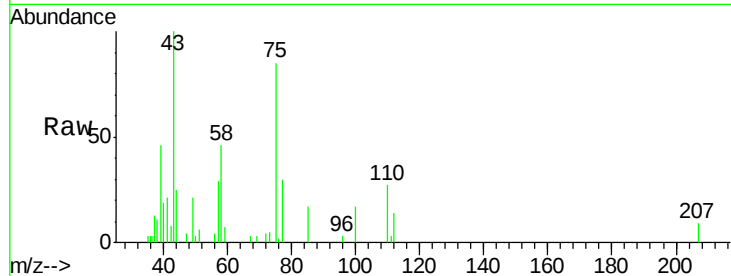
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 75 Resp: 8263

Ion Ratio Lower Upper

75 100

77 35.0 26.2 39.2



#54

cis-1,3-Dichloropropene

Concen: 2.431 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

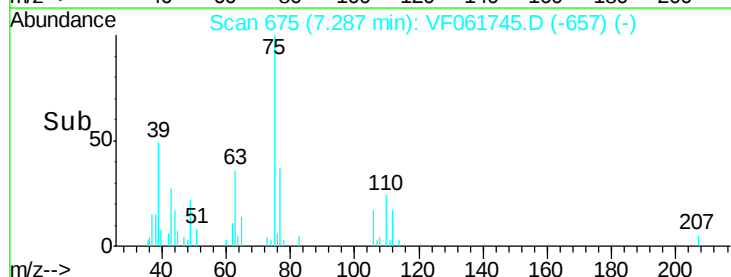
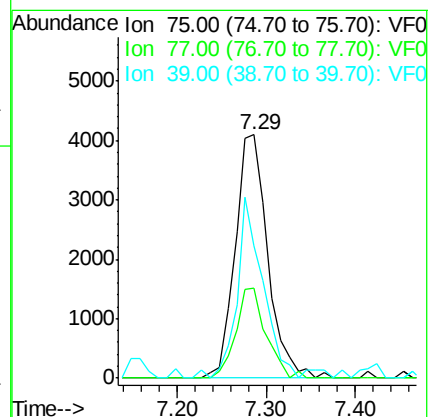
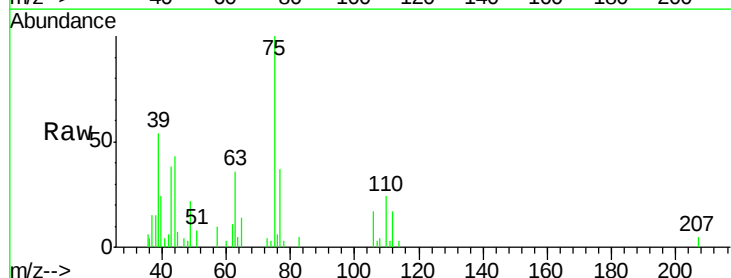
Tgt Ion: 75 Resp: 10472

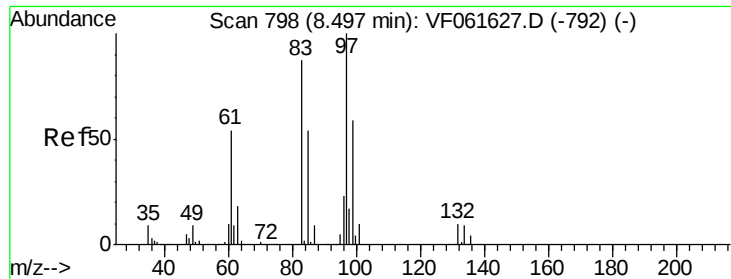
Ion Ratio Lower Upper

75 100

77 37.0 26.4 39.6

39 54.5 36.0 54.0#





#55

1,1,2-Trichloroethane

Concen: 2.487 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 97 Resp: 5283

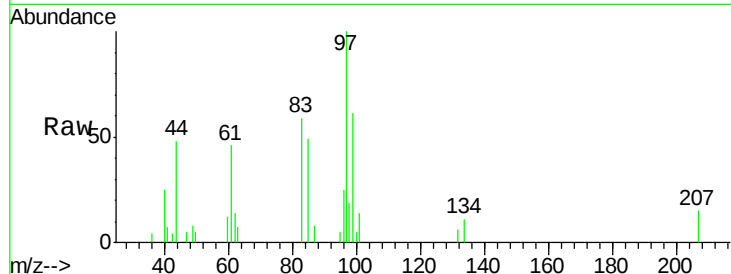
Ion Ratio Lower Upper

97 100

83 59.2 69.2 103.8#

85 49.0 43.0 64.4

99 61.2 47.2 70.8

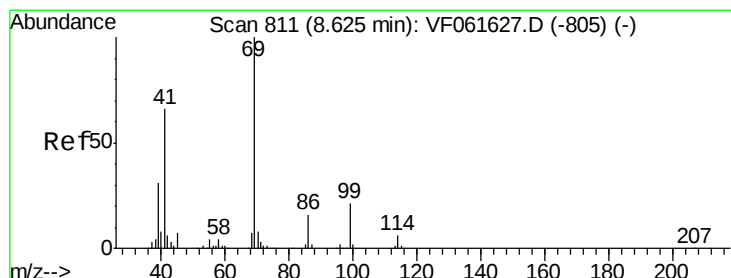
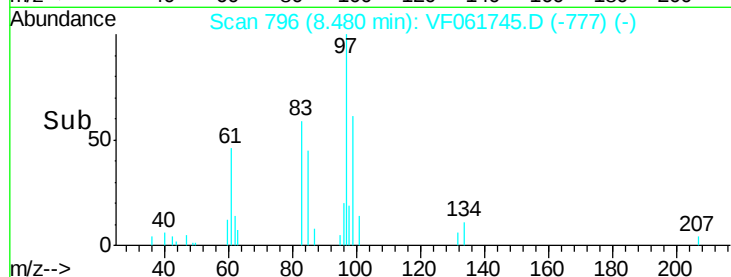
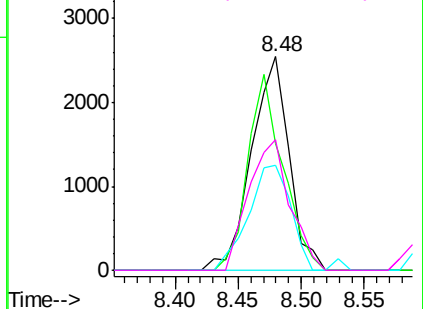


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 2.608 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

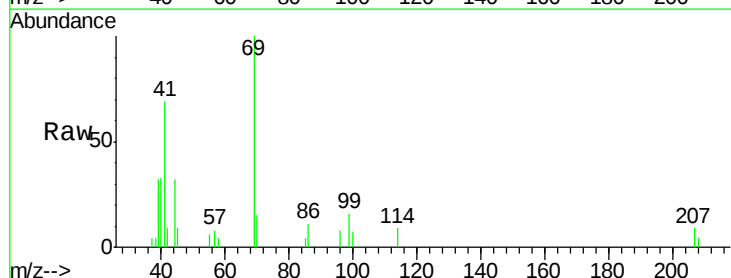
Tgt Ion: 69 Resp: 6168

Ion Ratio Lower Upper

69 100

41 69.4 52.9 79.3

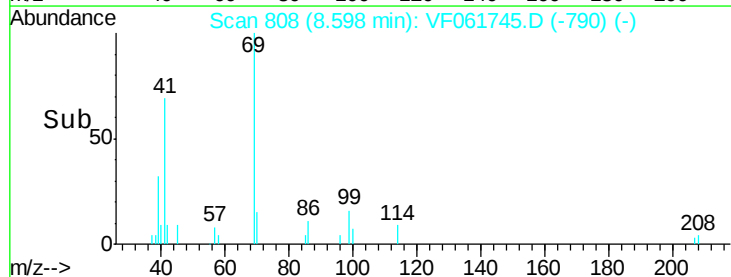
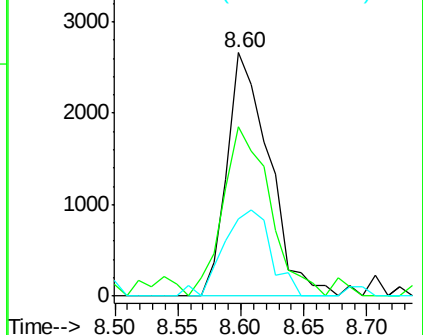
39 31.7 24.5 36.7

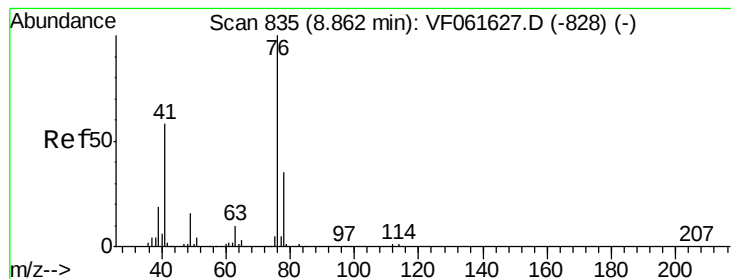


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 2.471 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

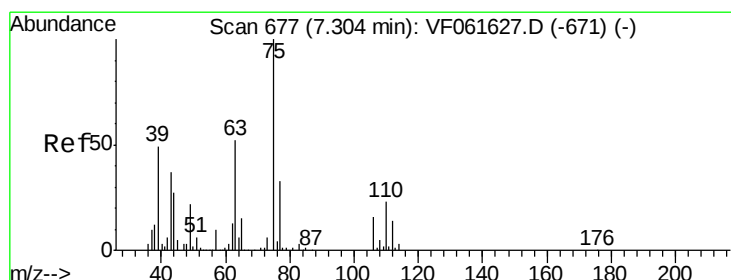
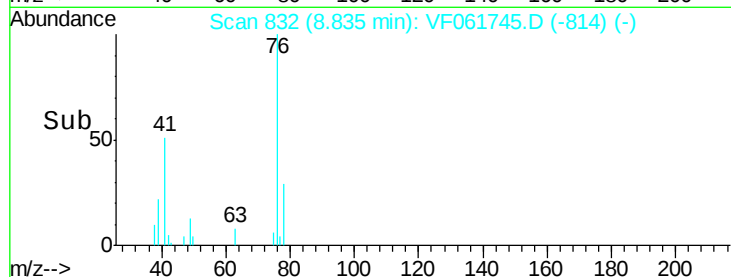
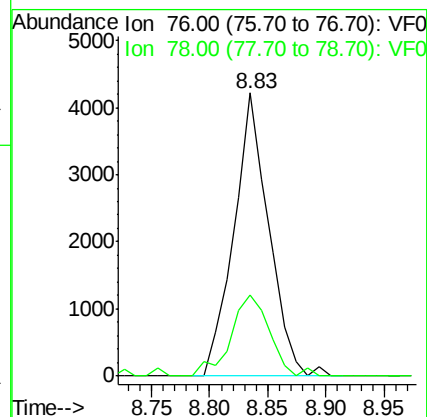
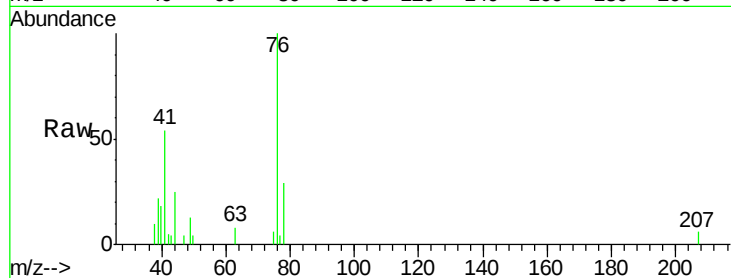
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 8762

Ion Ratio Lower Upper

76 100

78 28.8 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 9.461 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061745.D

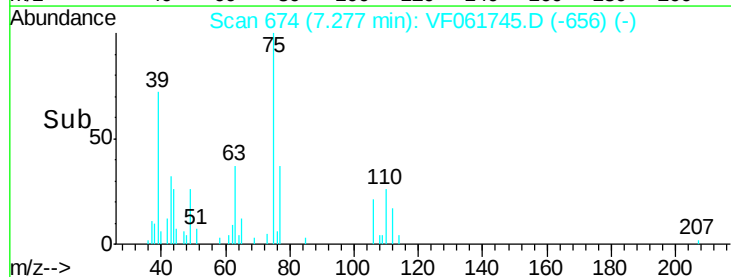
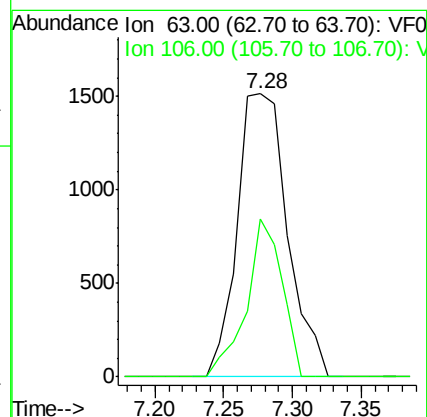
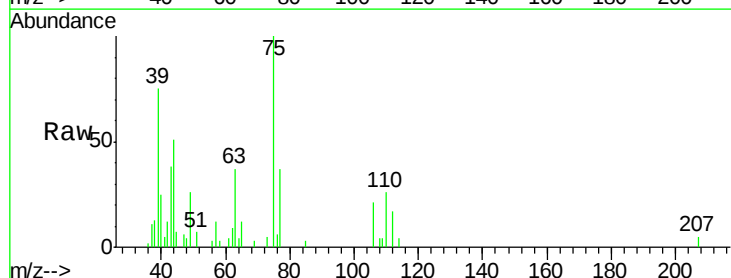
Acq: 26 Feb 2019 16:34

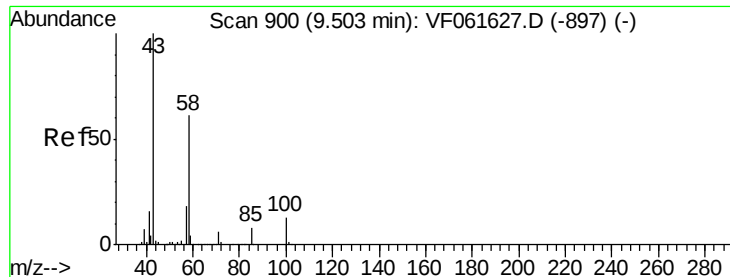
Tgt Ion: 63 Resp: 3861

Ion Ratio Lower Upper

63 100

106 55.9 24.6 36.8#





#59

2-Hexanone

Concen: 13.084 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

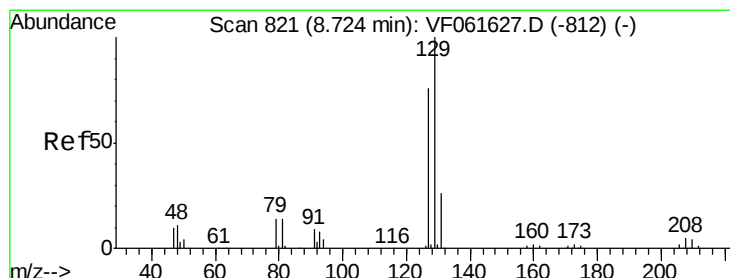
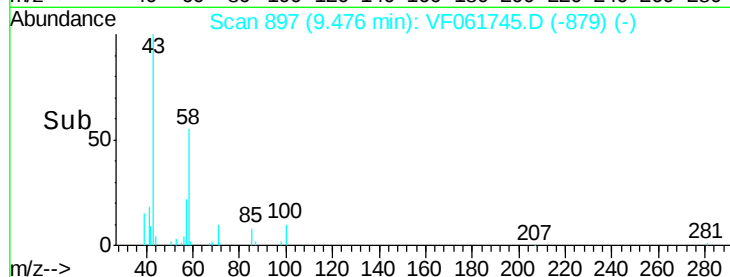
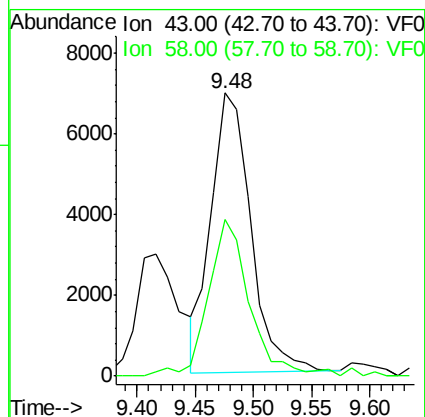
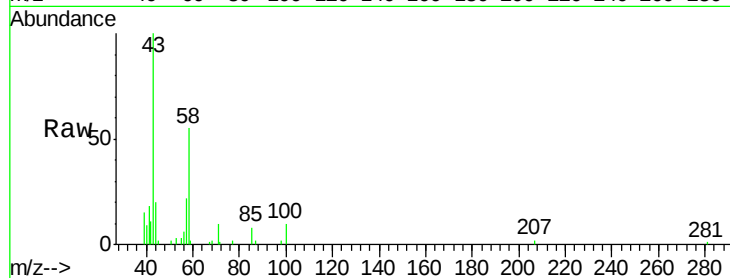
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 16422

Ion Ratio Lower Upper

43 100

58 55.4 28.5 85.5



#60

Dibromochloromethane

Concen: 2.268 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061745.D

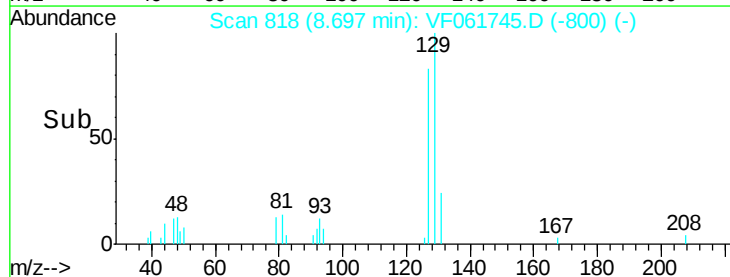
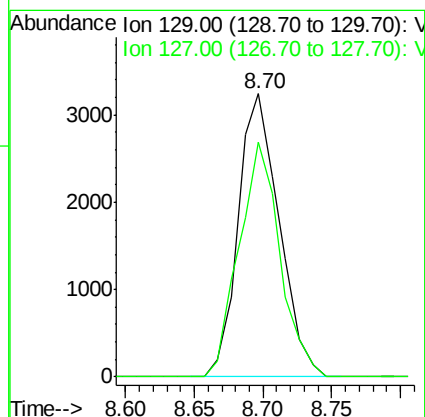
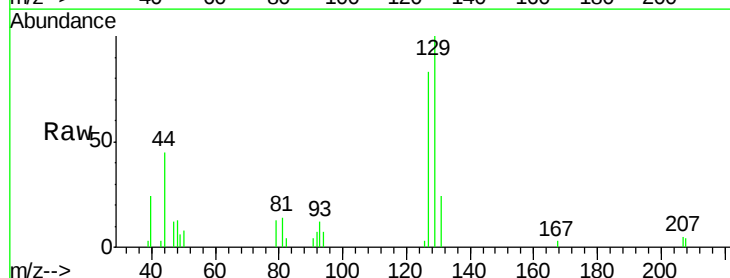
Acq: 26 Feb 2019 16:34

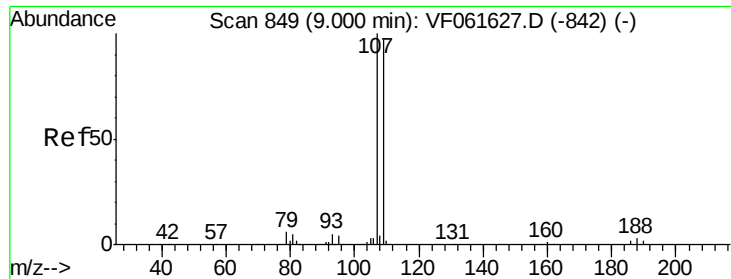
Tgt Ion: 129 Resp: 6705

Ion Ratio Lower Upper

129 100

127 83.1 37.8 113.4





#61

1,2-Dibromoethane

Concen: 2.627 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

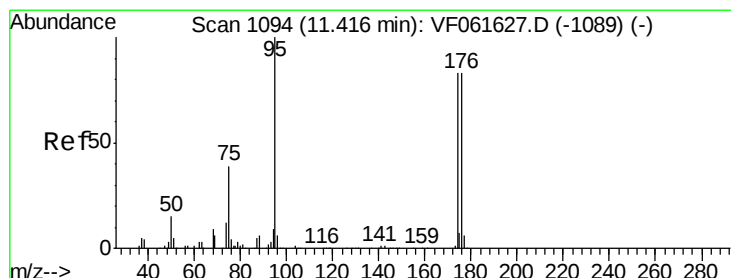
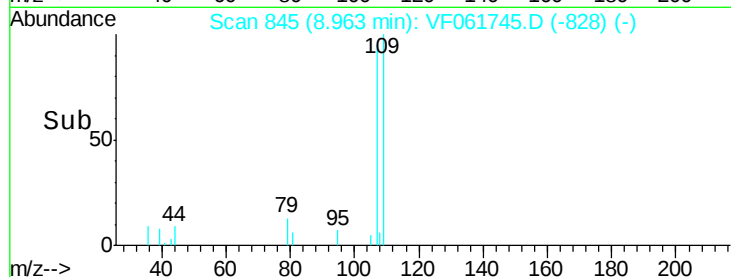
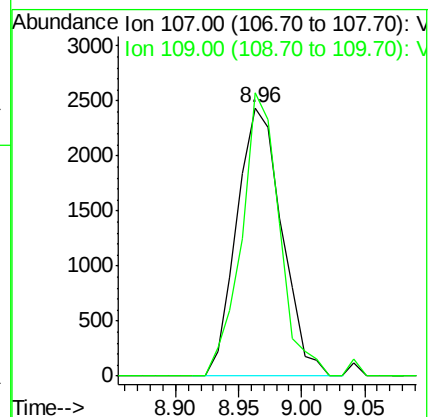
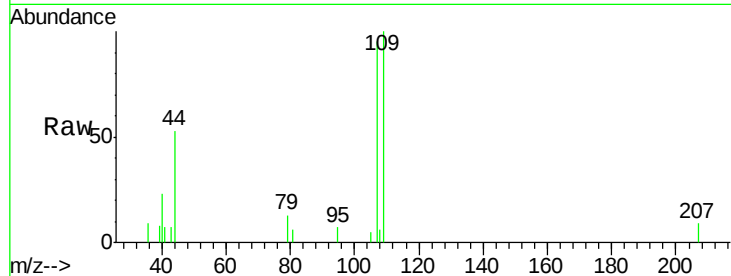
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:107 Resp: 6052

Ion Ratio Lower Upper

107 100

109 105.5 77.4 116.0



#62

4-Bromofluorobenzene

Concen: 55.181 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

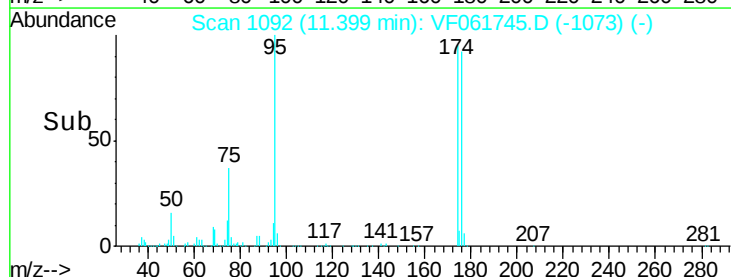
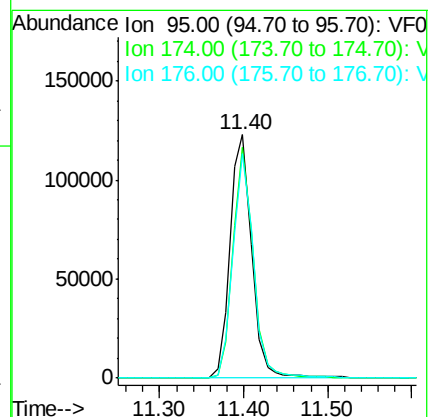
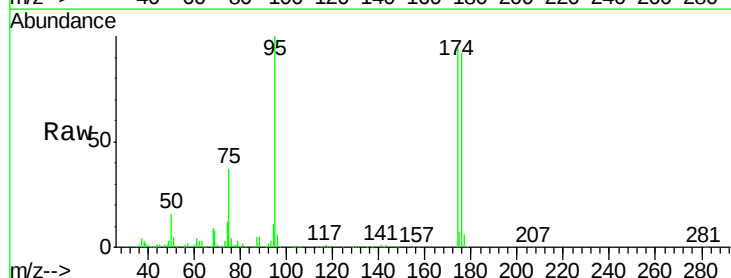
Tgt Ion: 95 Resp: 219305

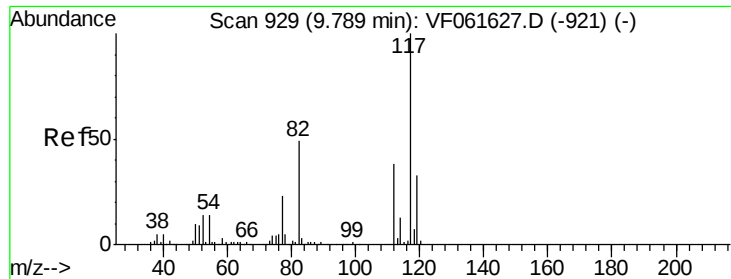
Ion Ratio Lower Upper

95 100

174 94.7 0.0 165.8

176 92.0 0.0 167.0

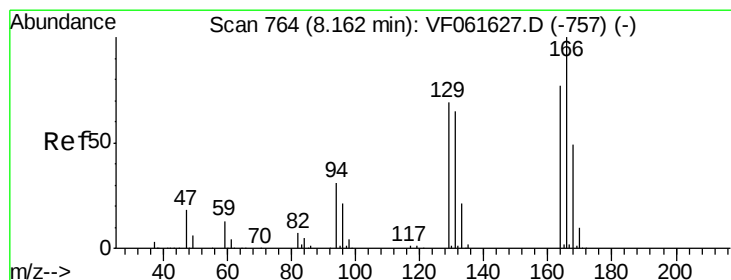
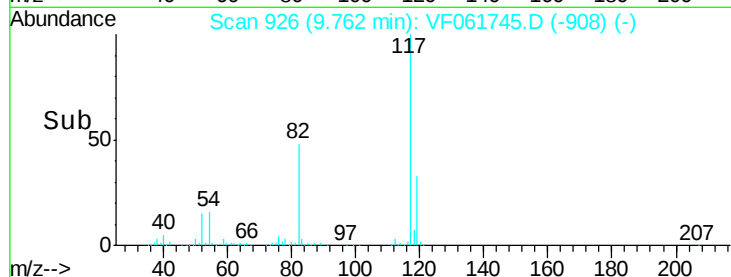
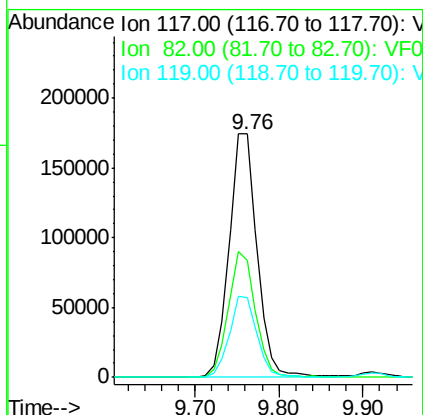
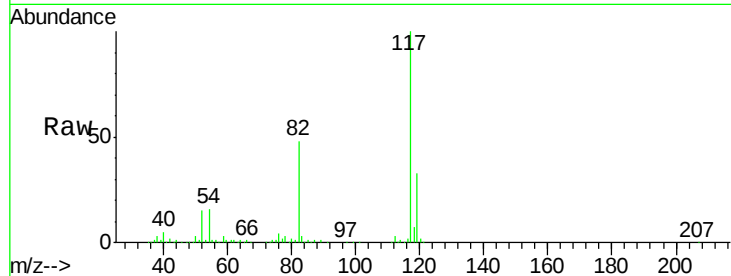




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

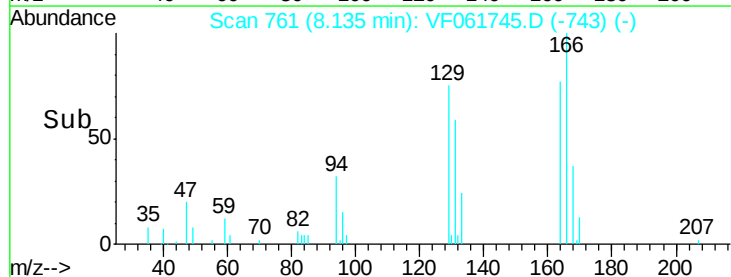
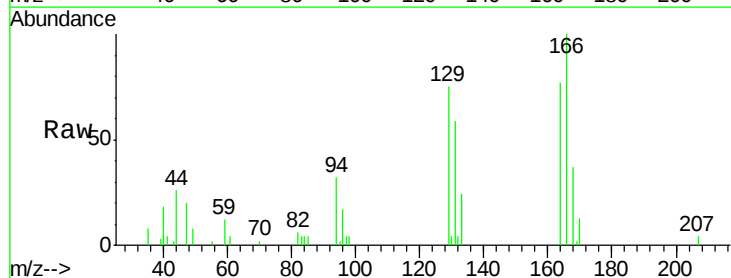
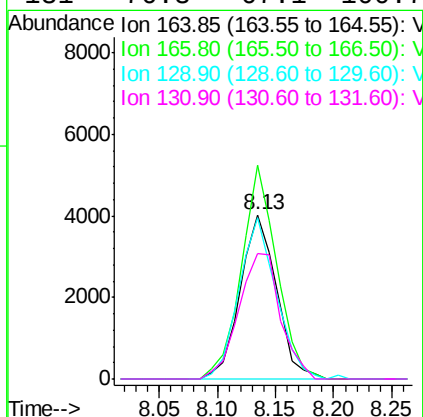
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

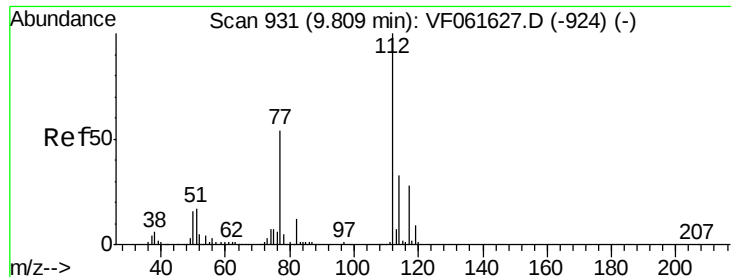
Tot Ion:117 Resp: 404931
Ion Ratio Lower Upper
117 100
82 47.8 39.3 58.9
119 33.0 26.6 40.0



#64
Tetrachloroethene
Concen: 2.620 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion:164 Resp: 8671
Ion Ratio Lower Upper
164 100
166 130.4 103.9 155.9
129 98.4 71.3 106.9
131 76.3 67.1 100.7

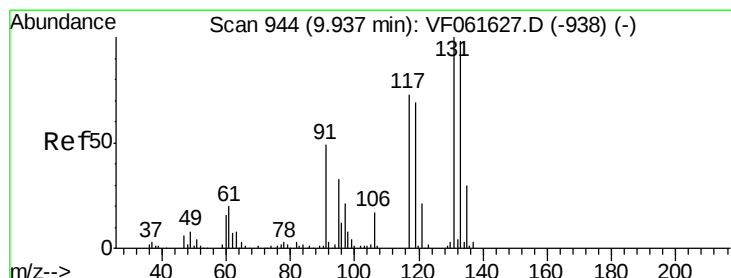
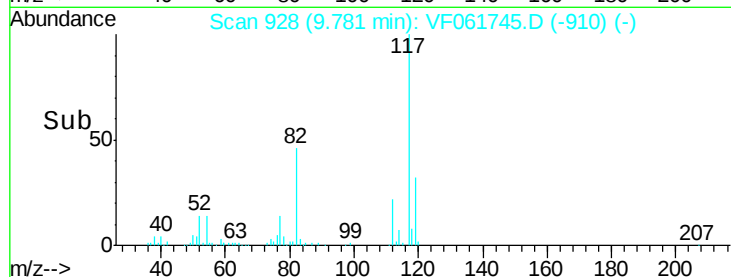
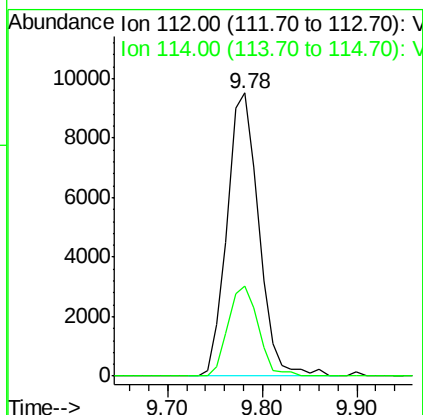
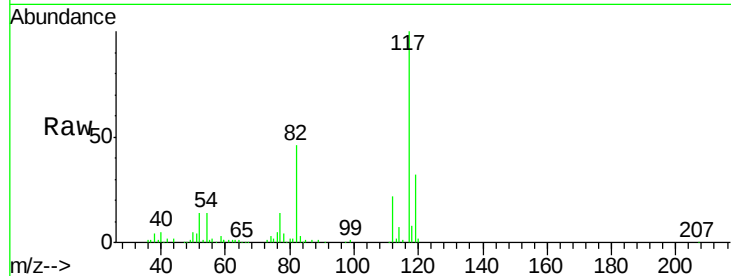




#65
Chlorobenzene
Concen: 2.694 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

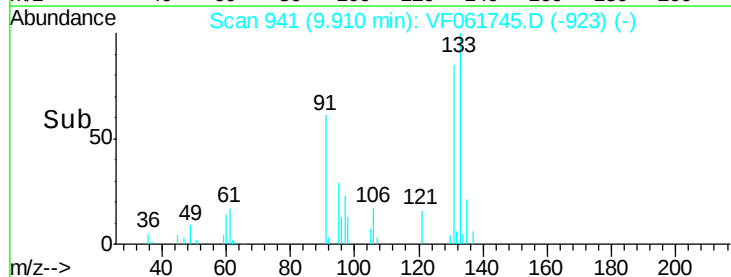
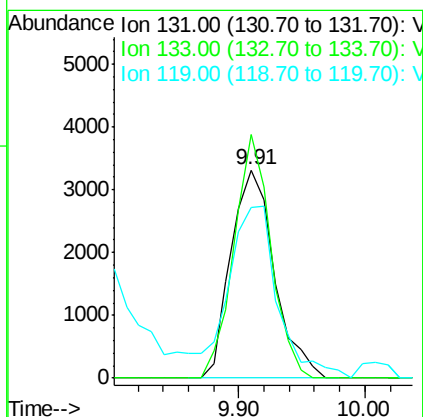
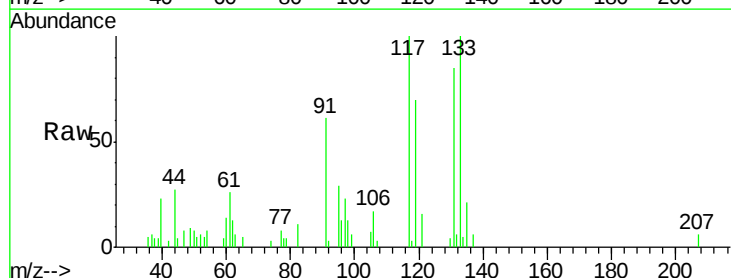
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

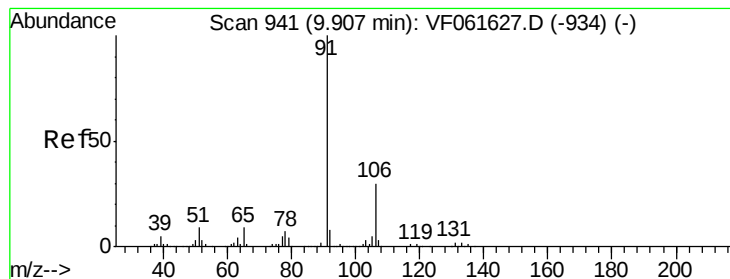
Tot Ion:112 Resp: 22133
Ion Ratio Lower Upper
112 100
114 31.7 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 2.470 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion:131 Resp: 7952
Ion Ratio Lower Upper
131 100
133 117.1 48.9 146.6
119 81.8 34.8 104.3





#67

Ethyl Benzene

Concen: 2.614 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

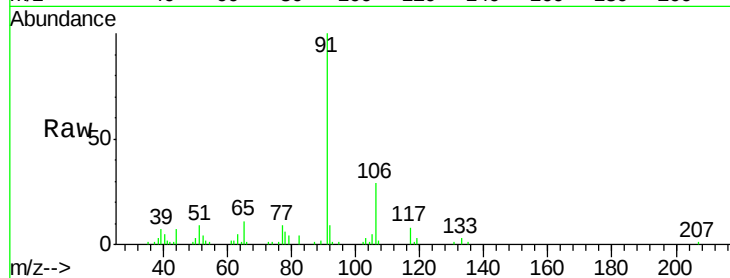
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 35719

Ion Ratio Lower Upper

91 100

106 29.1 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

20000

15000

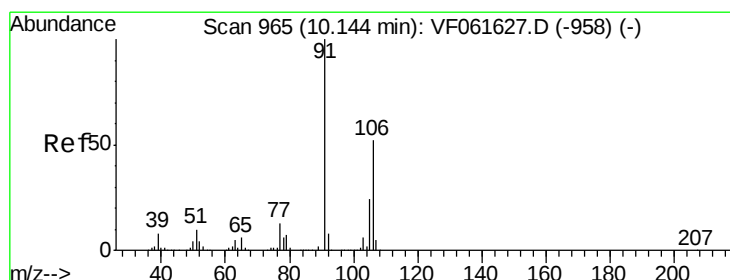
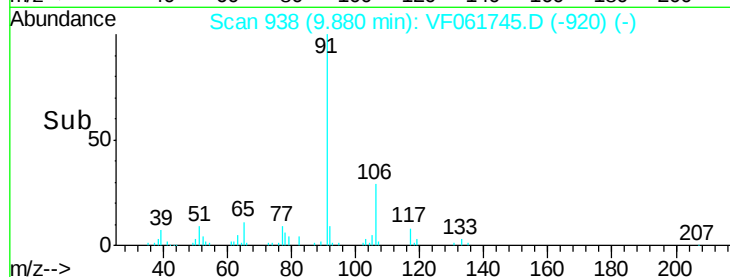
10000

5000

0

9.80 9.90

Time-->



#68

m/p-Xylenes

Concen: 5.492 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061745.D

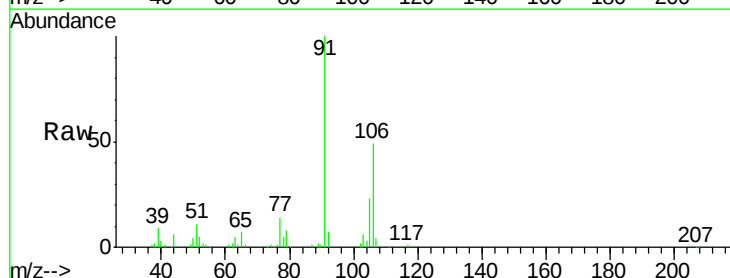
Acq: 26 Feb 2019 16:34

Tgt Ion: 106 Resp: 28724

Ion Ratio Lower Upper

106 100

91 204.2 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

30000

25000

20000

15000

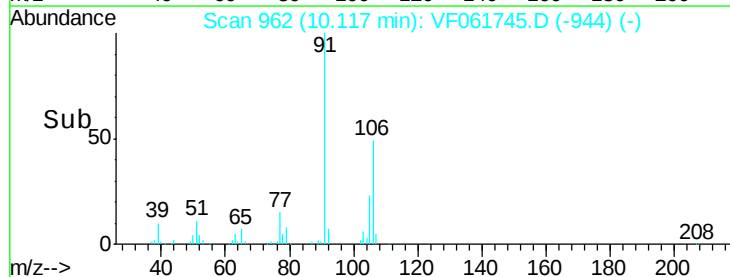
10000

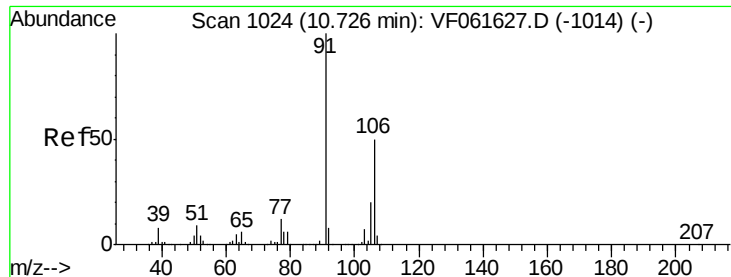
5000

0

10.00 10.10 10.20

Time-->

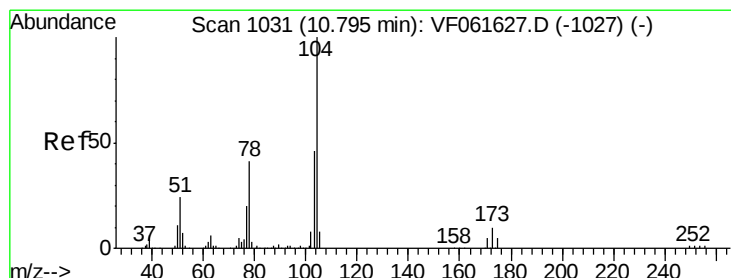
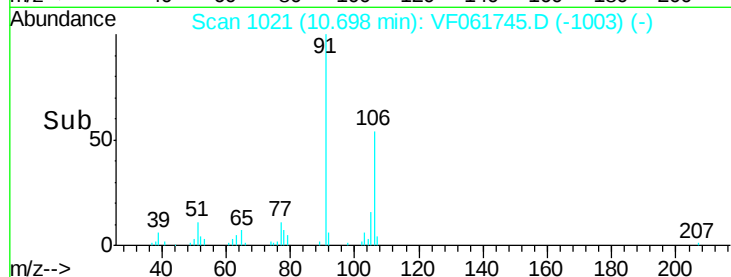
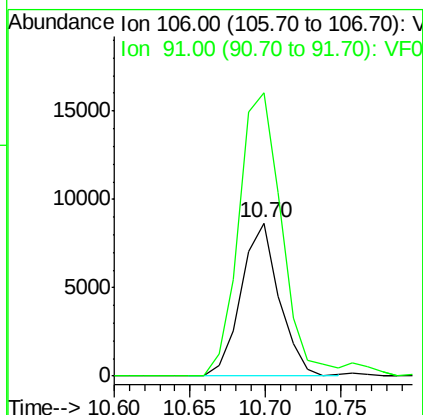
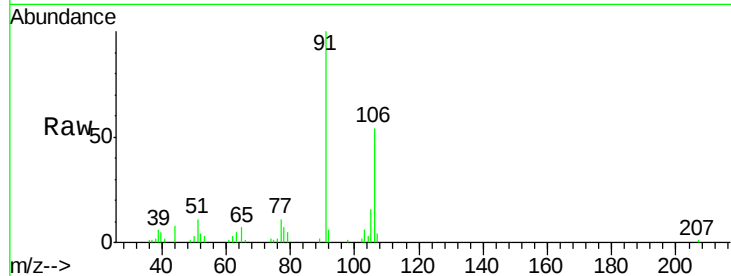




#69
o-Xylene
Concen: 2.727 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

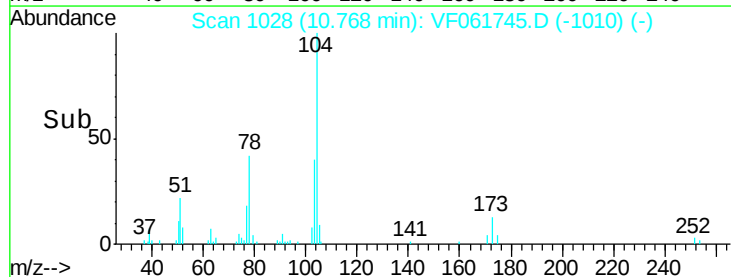
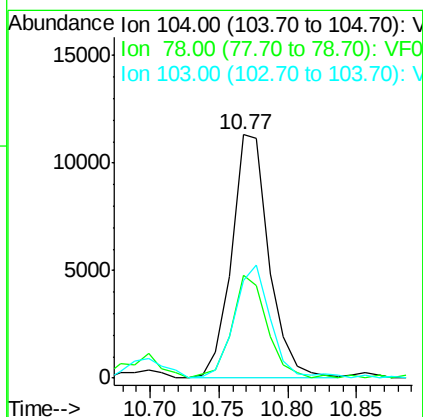
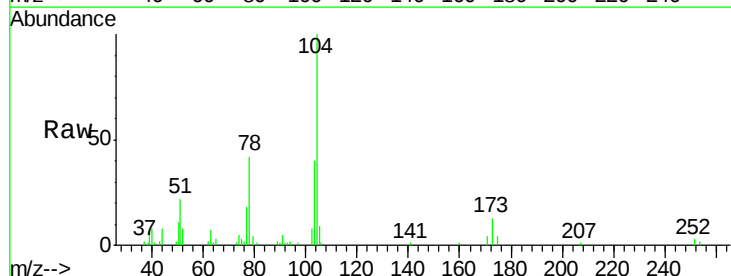
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

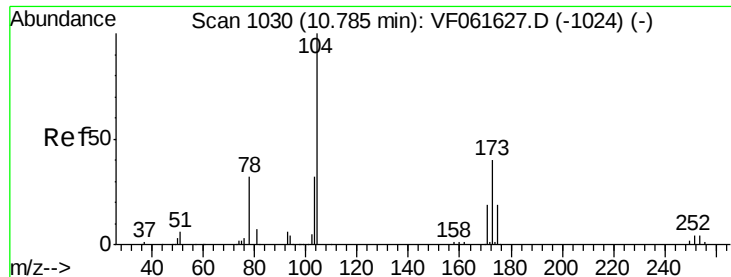
Tot Ion:106 Resp: 15220
Ion Ratio Lower Upper
106 100
91 184.6 100.1 300.1



#70
Styrene
Concen: 2.729 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion:104 Resp: 21543
Ion Ratio Lower Upper
104 100
78 42.1 33.2 49.8
103 39.9 37.2 55.8





#71

Bromoform

Concen: 2.320 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

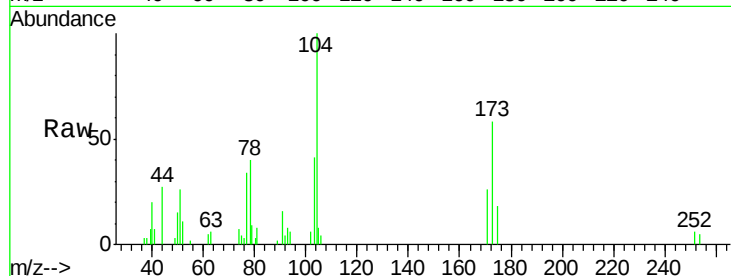
Tot Ion:173 Resp: 4057

Ion Ratio Lower Upper

173 100

175 31.1 24.0 72.0

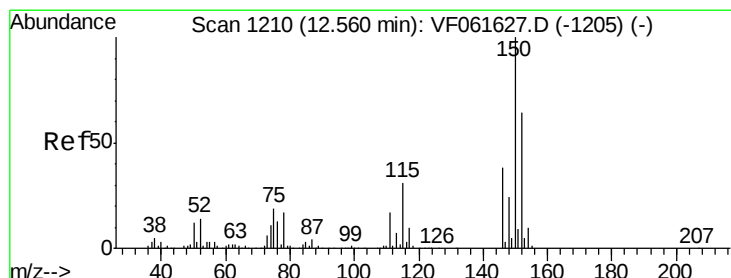
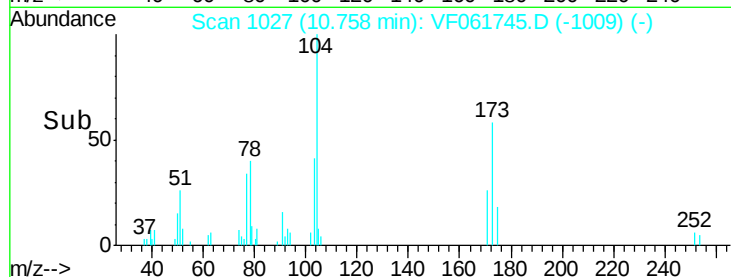
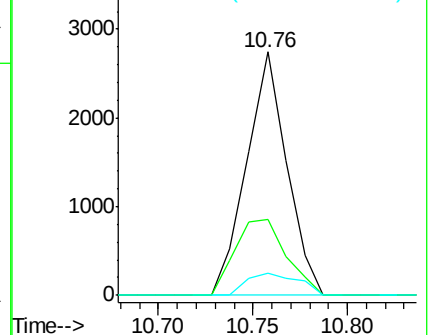
254 9.3 8.2 12.2



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

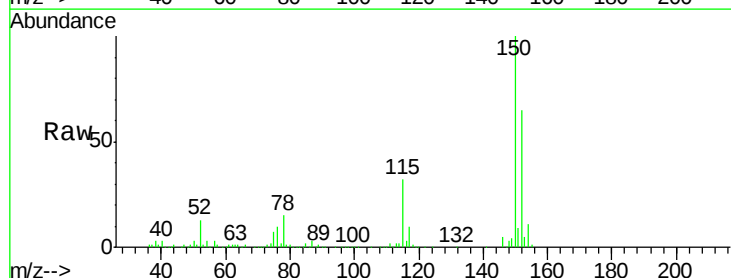
Tgt Ion:152 Resp: 247687

Ion Ratio Lower Upper

152 100

115 48.7 24.3 72.8

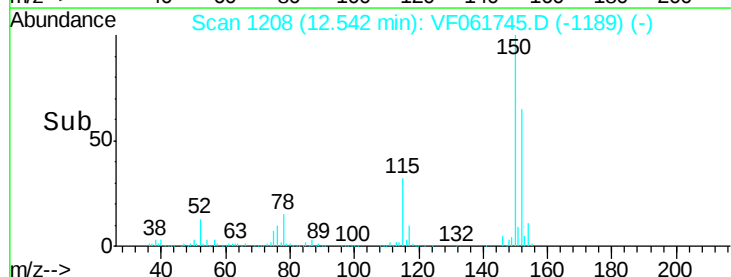
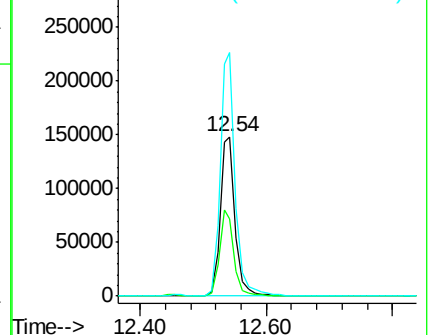
150 153.0 0.0 312.0

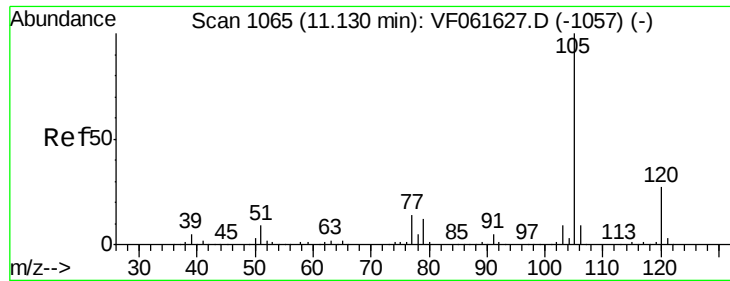


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 2.291 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

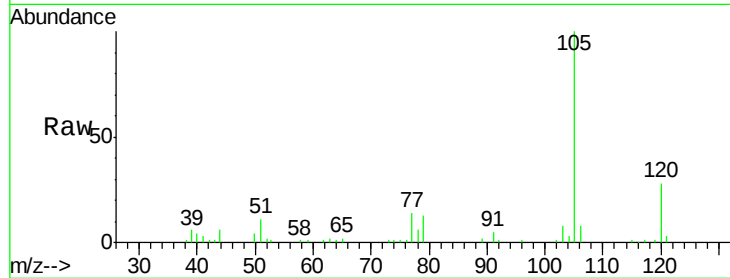
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:105 Resp: 40395

Ion Ratio Lower Upper

105 100

120 27.7 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

25000

20000

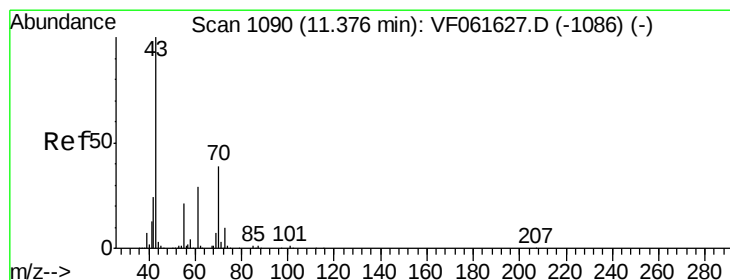
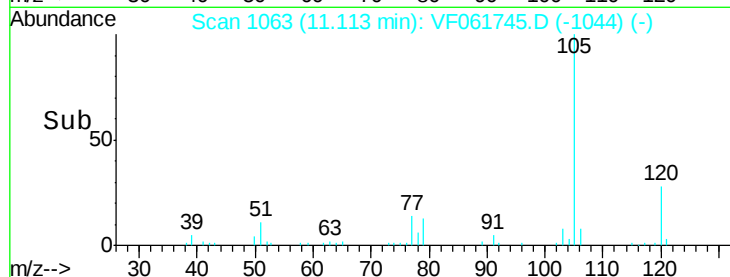
15000

10000

5000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 2.401 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion: 43 Resp: 10165

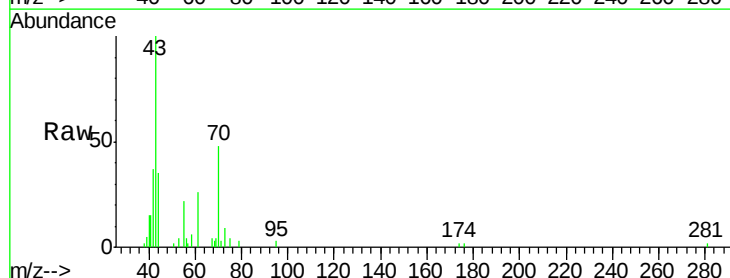
Ion Ratio Lower Upper

43 100

70 48.4 31.5 47.3#

55 22.2 16.7 25.1

61 25.9 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

8000

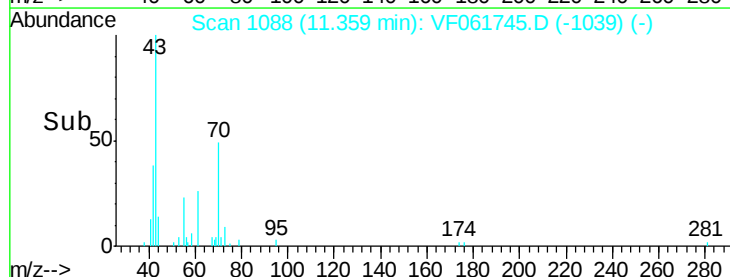
6000

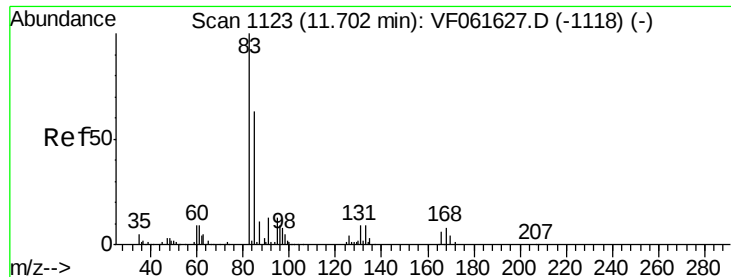
4000

2000

0

Time--> 11.30 11.35 11.40 11.45





#75

1,1,2,2-Tetrachloroethane

Concen: 2.082 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

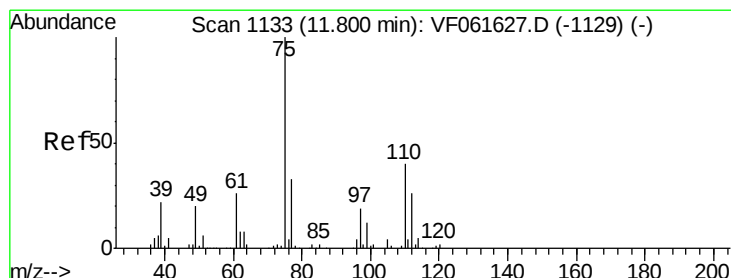
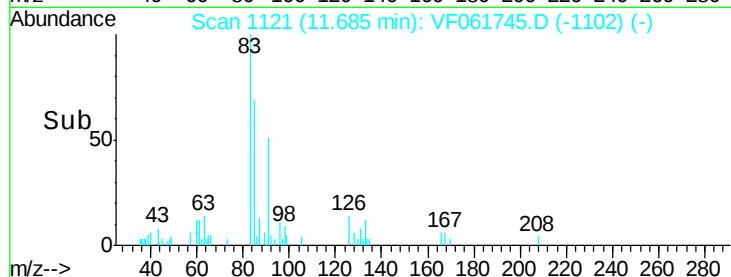
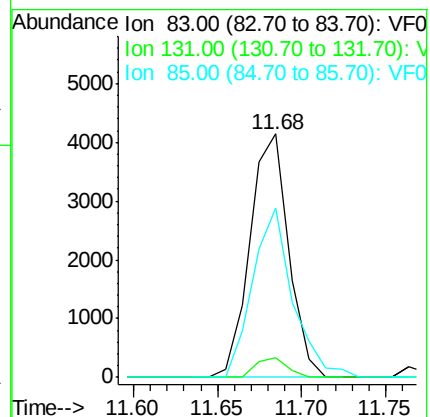
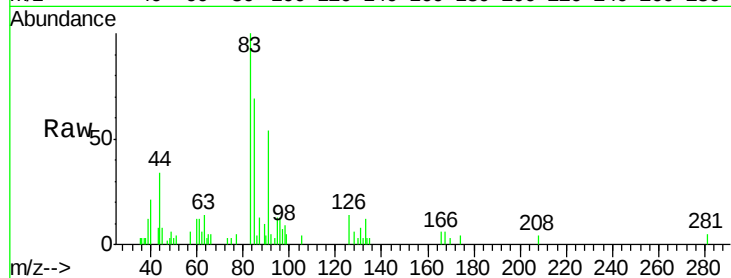
Tot Ion: 83 Resp: 6578

Ion Ratio Lower Upper

83 100

131 8.0 4.4 13.2

85 69.4 31.5 94.5



#76

1,2,3-Trichloropropane

Concen: 2.517 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061745.D

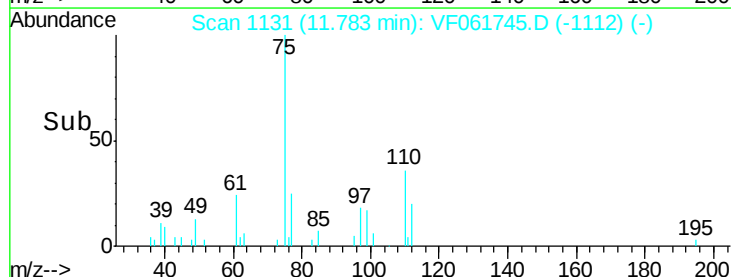
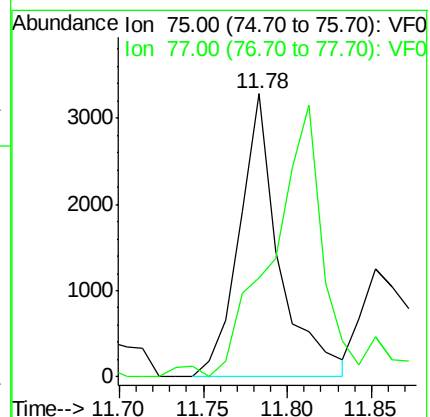
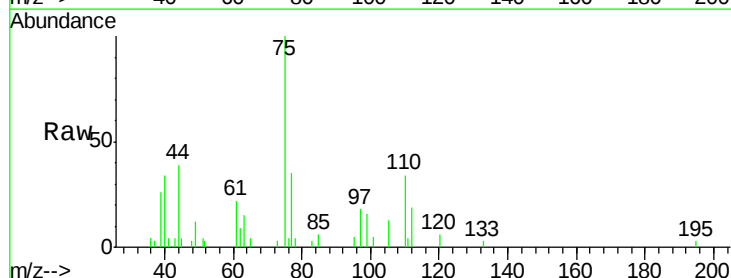
Acq: 26 Feb 2019 16:34

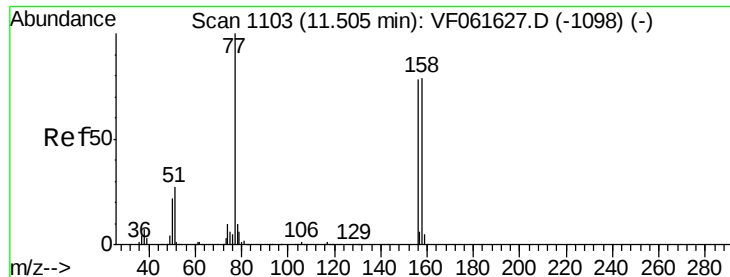
Tgt Ion: 75 Resp: 5406

Ion Ratio Lower Upper

75 100

77 35.1 16.6 49.7





#77

Bromobenzene

Concen: 2.412 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

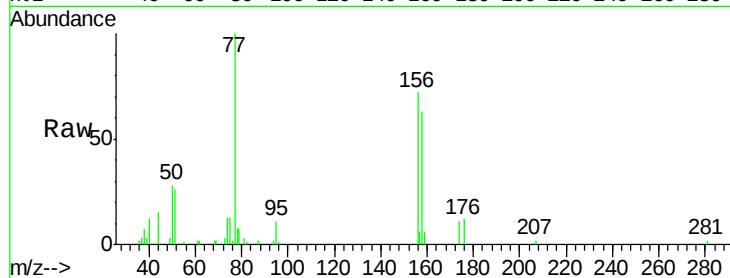
Tot Ion:156 Resp: 10510

Ion Ratio Lower Upper

156 100

77 138.6 64.3 192.7

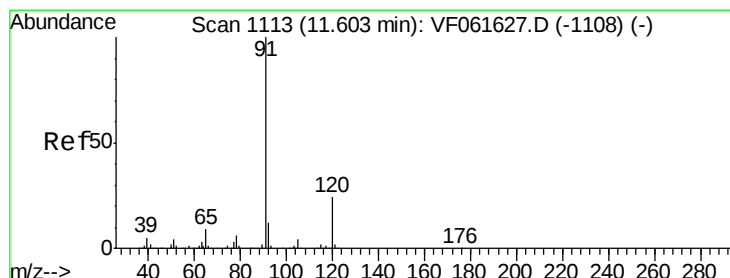
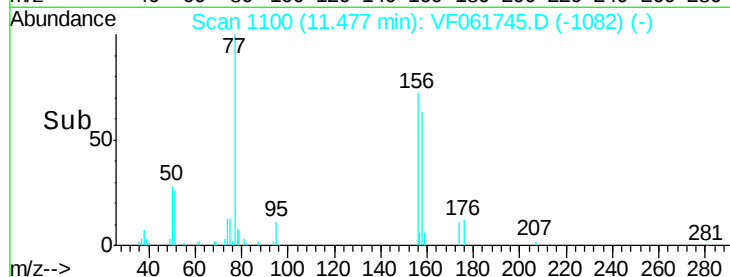
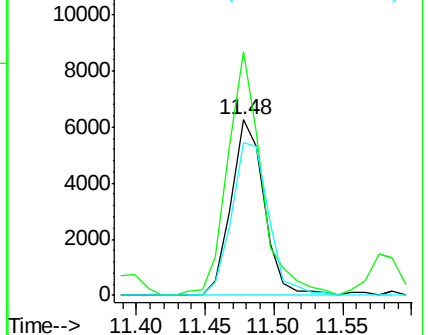
158 87.0 50.9 152.7



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: 2.513 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.03 min

Lab File: VF061745.D

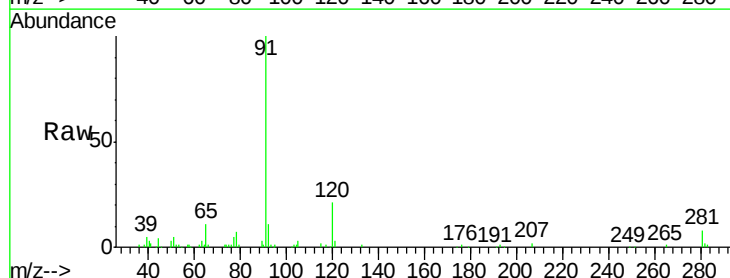
Acq: 26 Feb 2019 16:34

Tgt Ion: 91 Resp: 50846

Ion Ratio Lower Upper

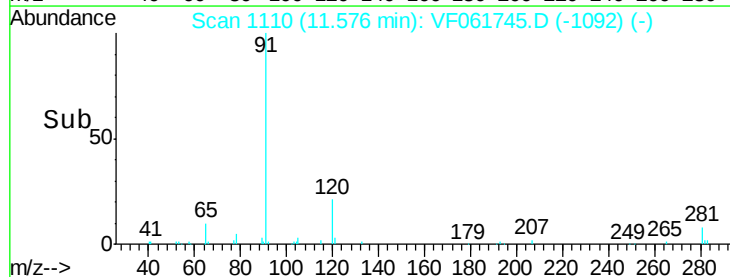
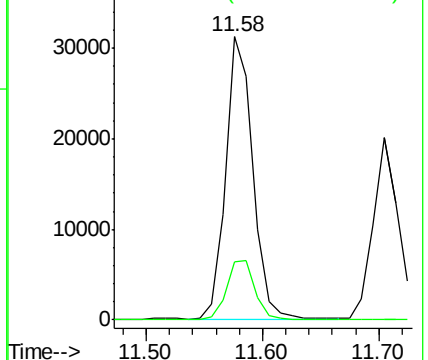
91 100

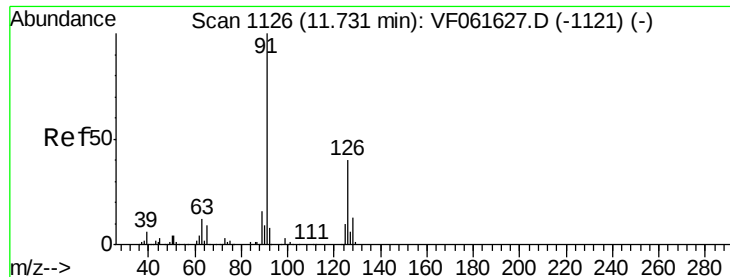
120 20.5 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.623 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

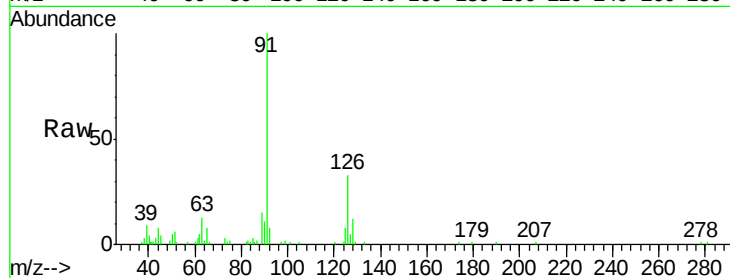
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 29730

Ion Ratio Lower Upper

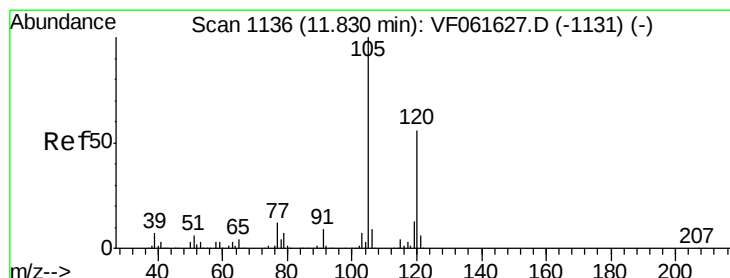
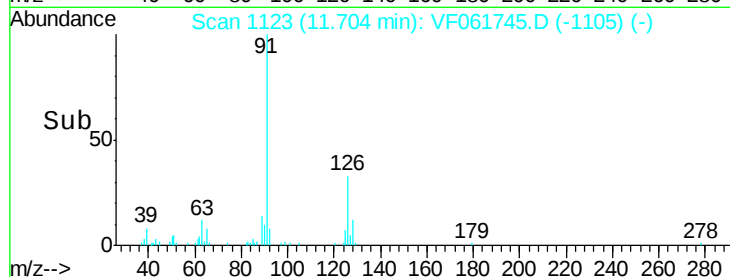
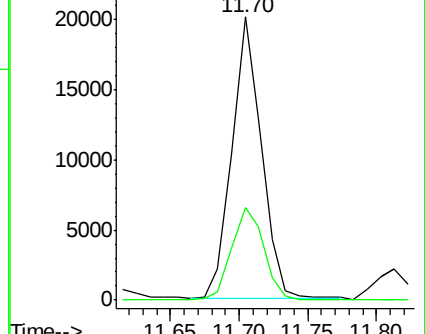
91 100

126 32.5 19.8 59.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.487 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061745.D

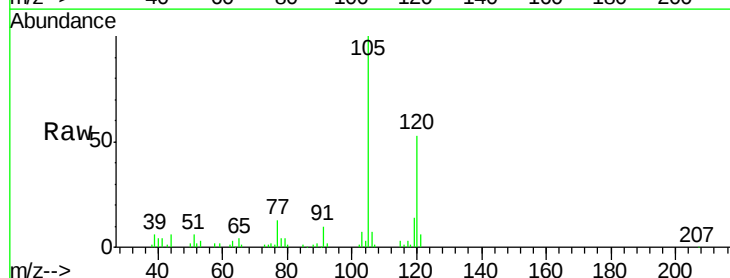
Acq: 26 Feb 2019 16:34

Tgt Ion:105 Resp: 35054

Ion Ratio Lower Upper

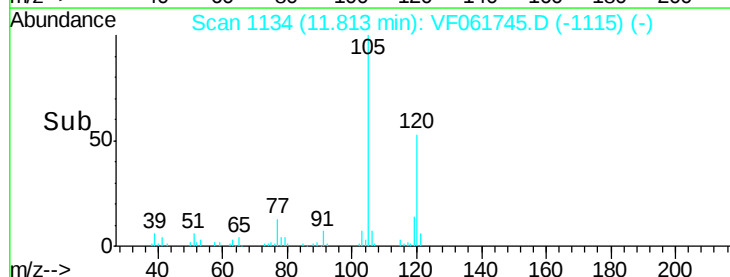
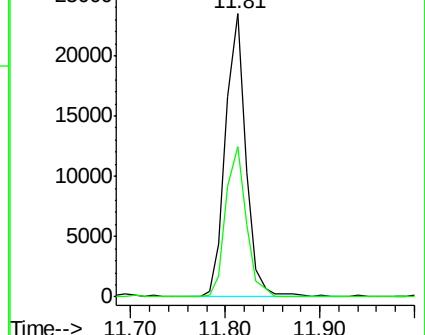
105 100

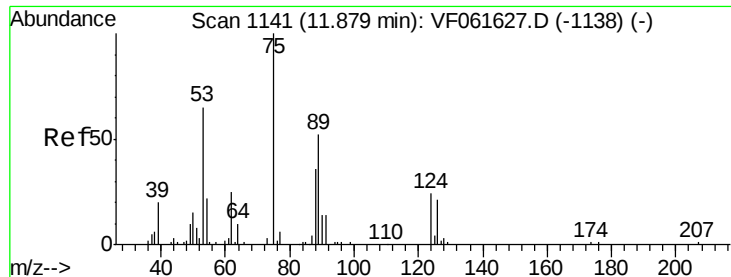
120 53.2 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 2.954 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

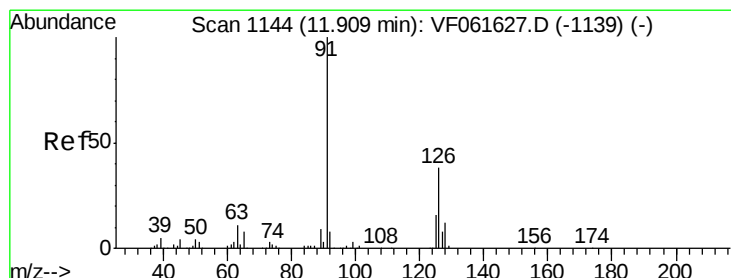
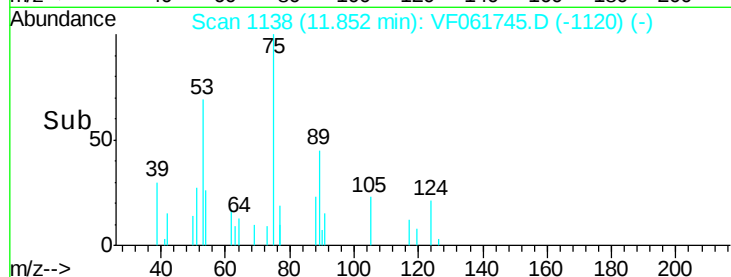
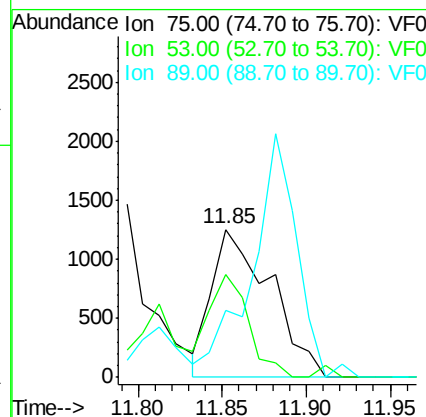
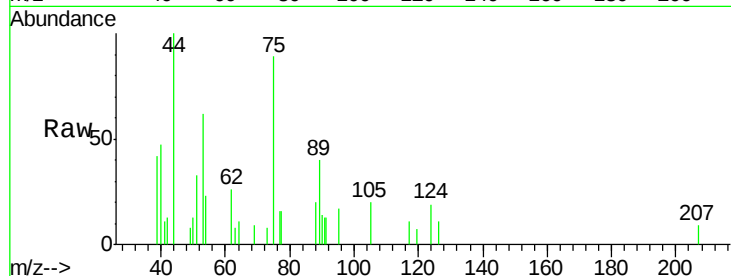
Tot Ion: 75 Resp: 3042

Ion Ratio Lower Upper

75 100

53 69.4 53.7 80.5

89 45.4 41.6 62.4



#82

4-Chlorotoluene

Concen: 2.670 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.03 min

Lab File: VF061745.D

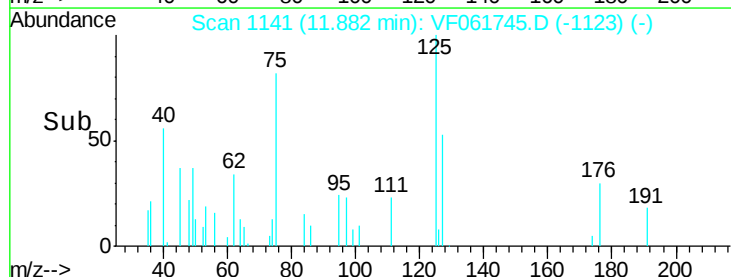
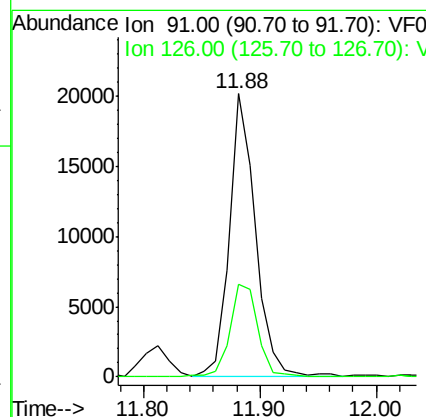
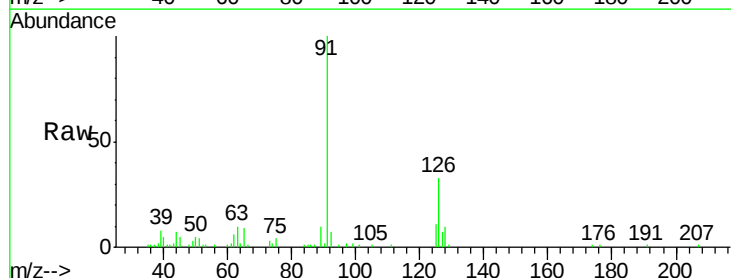
Acq: 26 Feb 2019 16:34

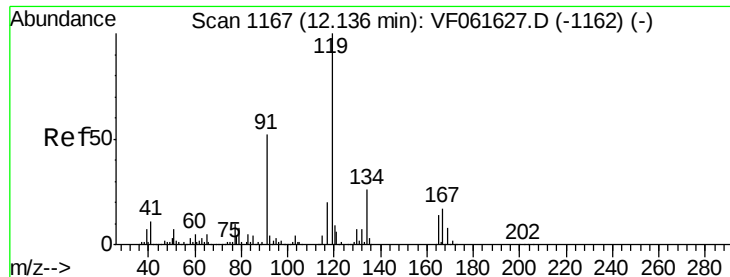
Tgt Ion: 91 Resp: 31414

Ion Ratio Lower Upper

91 100

126 32.8 19.1 57.1





#83

tert-Butylbenzene

Concen: 2.496 ug/l

RT: 12.12 min Scan# 1165

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

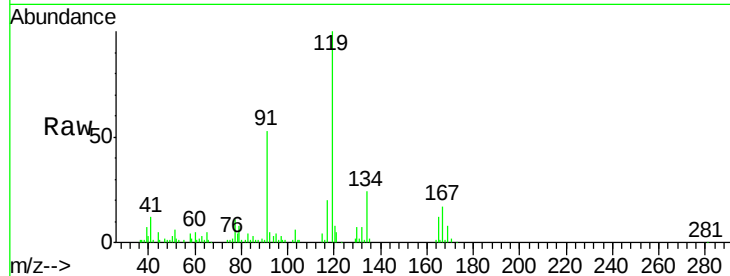
Tot Ion:119 Resp: 38969

Ion Ratio Lower Upper

119 100

91 52.7 26.3 78.8

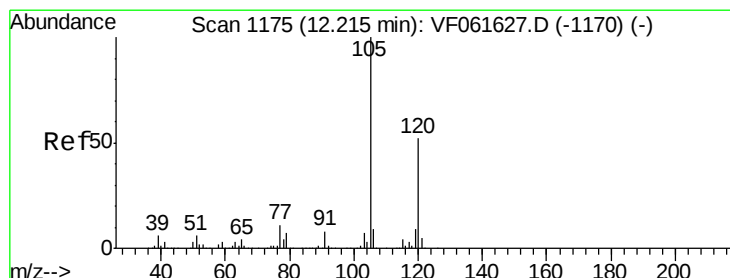
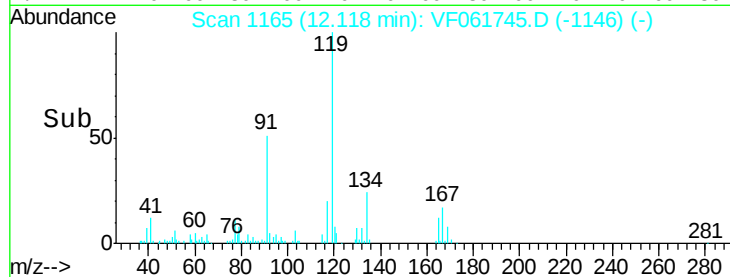
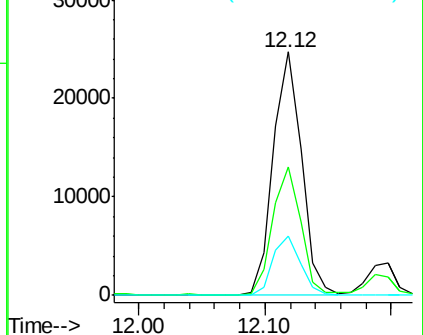
134 24.3 12.9 38.7



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: 2.511 ug/l

RT: 12.19 min Scan# 1172

Delta R.T. -0.03 min

Lab File: VF061745.D

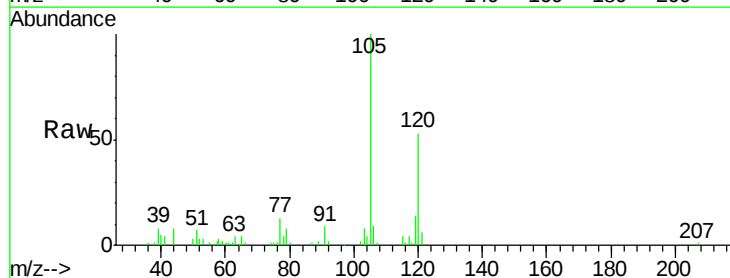
Acq: 26 Feb 2019 16:34

Tgt Ion:105 Resp: 35158

Ion Ratio Lower Upper

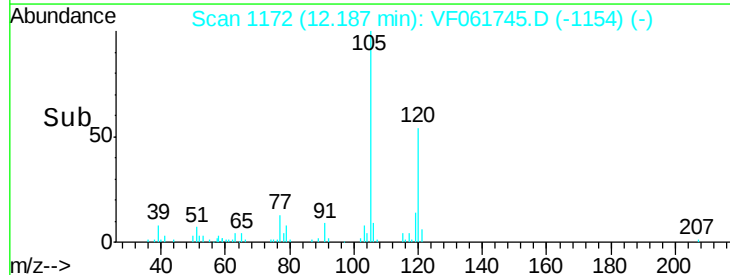
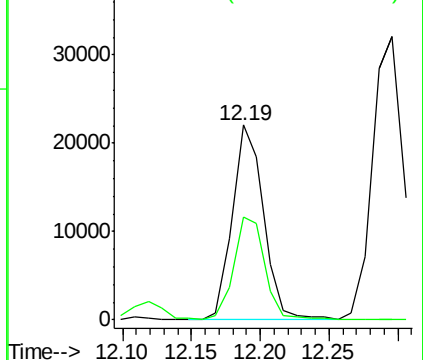
105 100

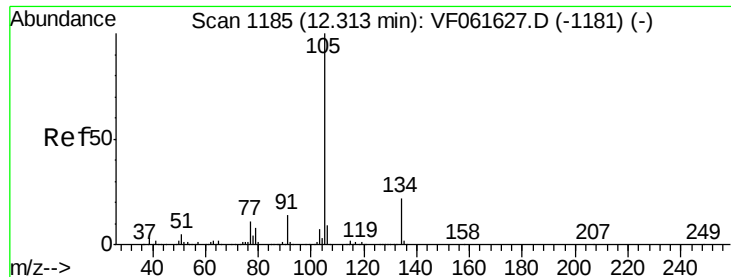
120 53.2 26.1 78.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.543 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

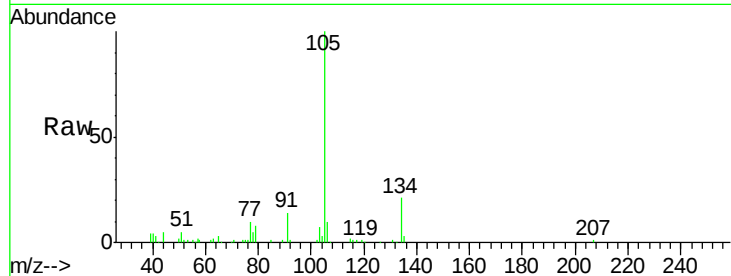
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:105 Resp: 51336

Ion Ratio Lower Upper

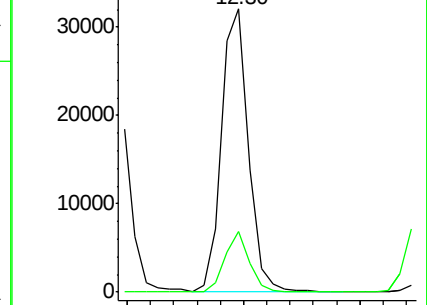
105 100

134 21.2 10.8 32.4

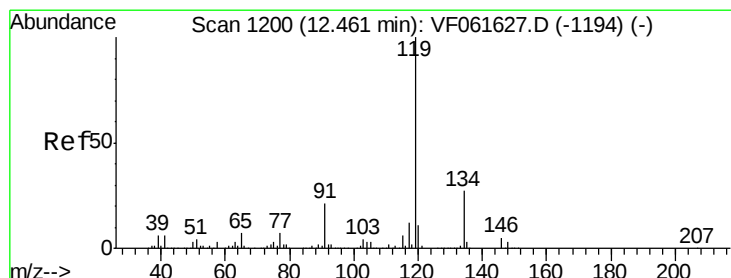
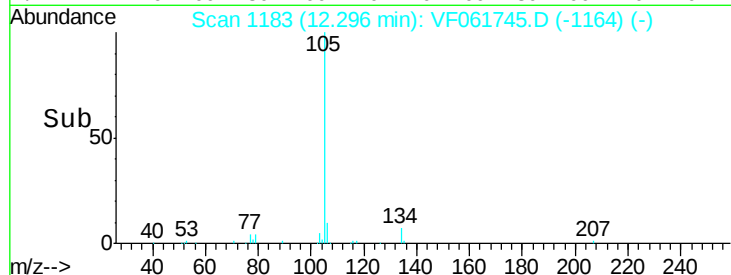


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 2.546 ug/l

RT: 12.44 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

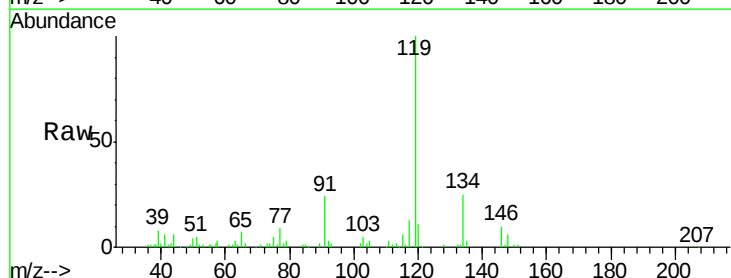
Tgt Ion:119 Resp: 43137

Ion Ratio Lower Upper

119 100

134 25.4 13.7 41.1

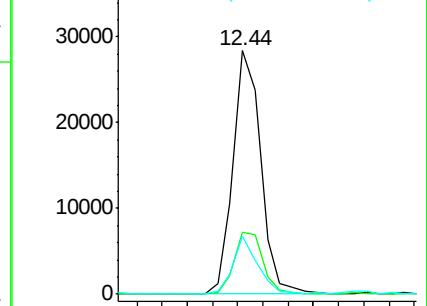
91 23.7 10.8 32.4



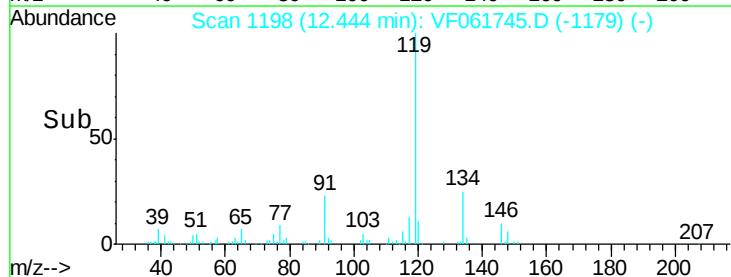
Abundance Ion 119.00 (118.70 to 119.70): V

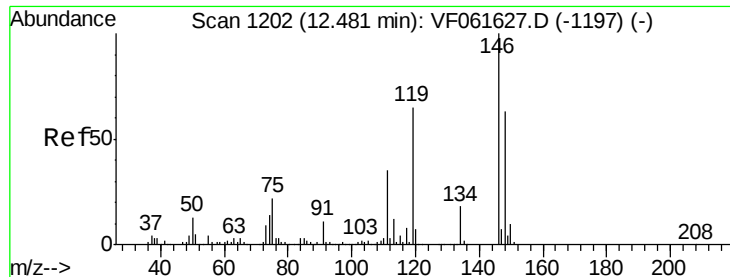
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0



Time-->

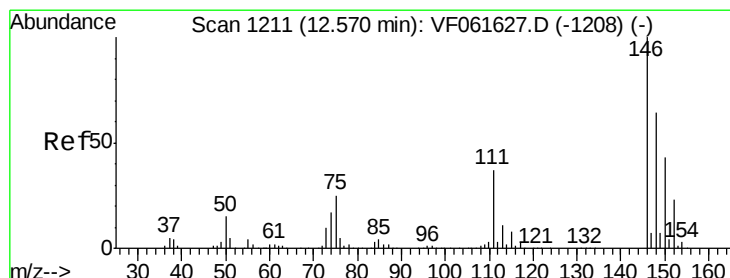
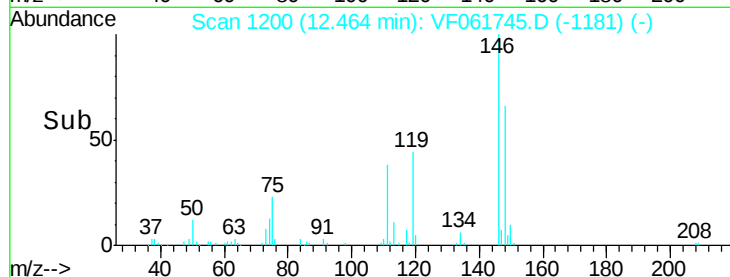
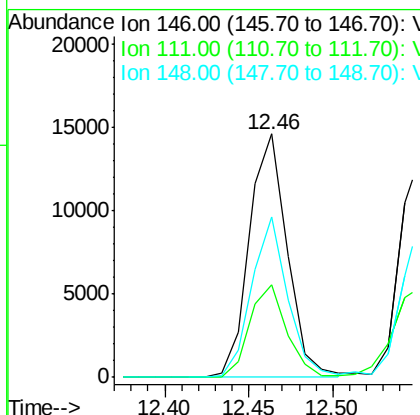
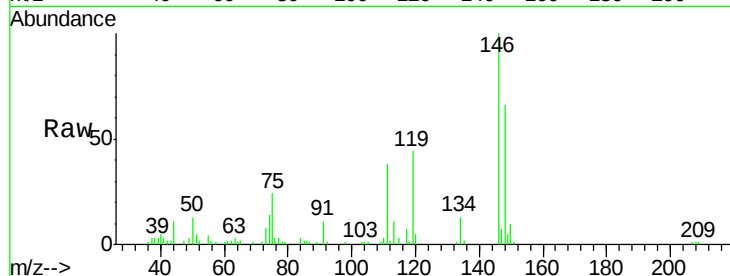




#87
 1,3-Dichlorobenzene
 Concen: 2.691 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

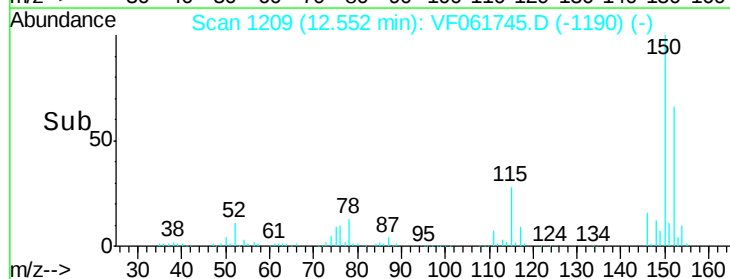
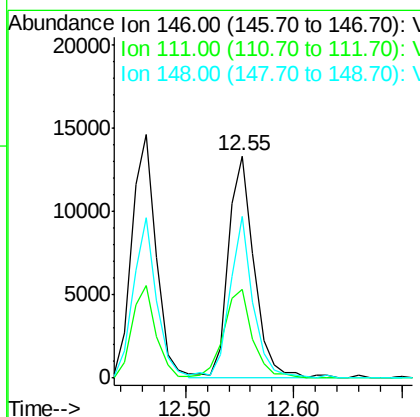
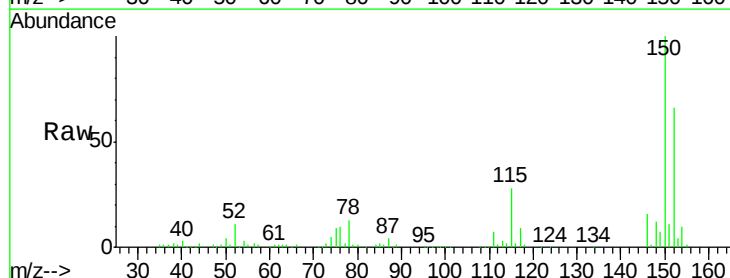
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

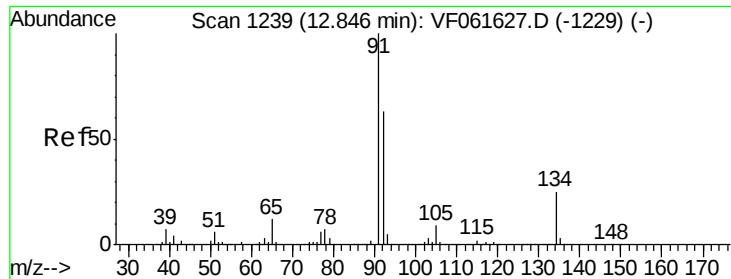
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	17.5	52.6
148	66.1	31.4	94.3



#88
 1,4-Dichlorobenzene
 Concen: 2.728 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.4	55.4
148	72.9	32.2	96.6

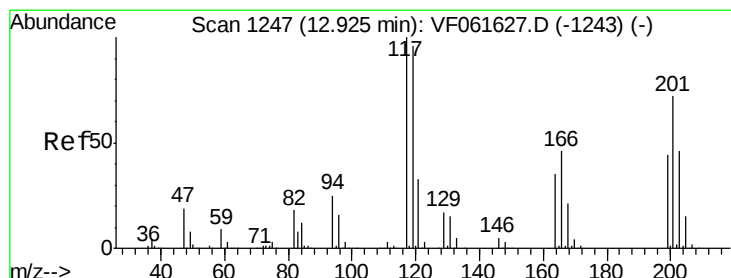
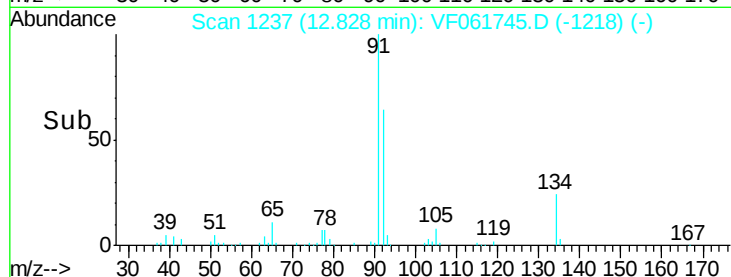
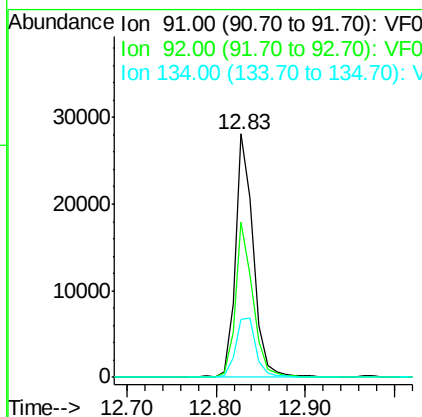
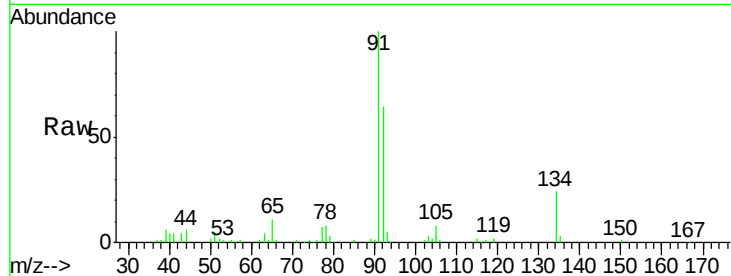




#89
n-Butylbenzene
Concen: 2.483 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

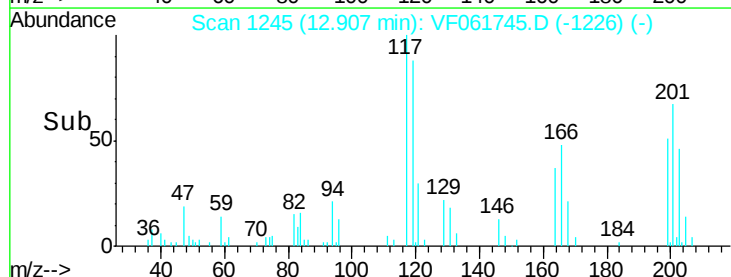
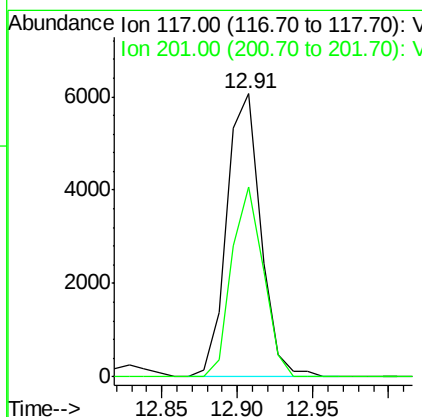
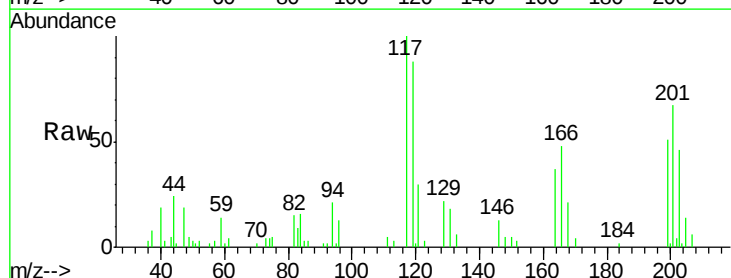
Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

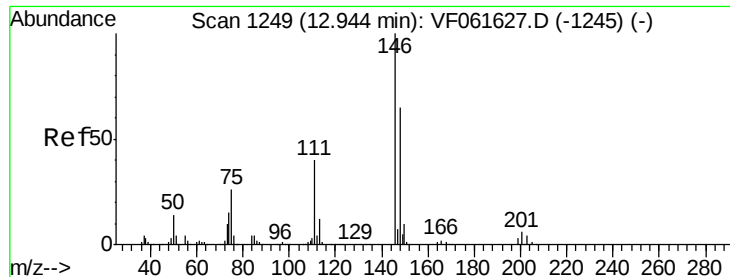
Tot Ion: 91 Resp: 39723
Ion Ratio Lower Upper
91 100
92 63.8 31.4 94.3
134 23.9 12.3 36.9



#90
Hexachloroethane
Concen: 2.409 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion: 117 Resp: 9494
Ion Ratio Lower Upper
117 100
201 67.1 36.2 108.6





#91

1,2-Dichlorobenzene

Concen: 2.625 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

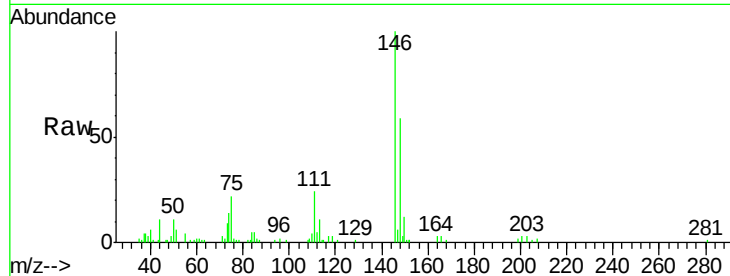
Tot Ion:146 Resp: 21207

Ion Ratio Lower Upper

146 100

111 23.9 20.2 60.5

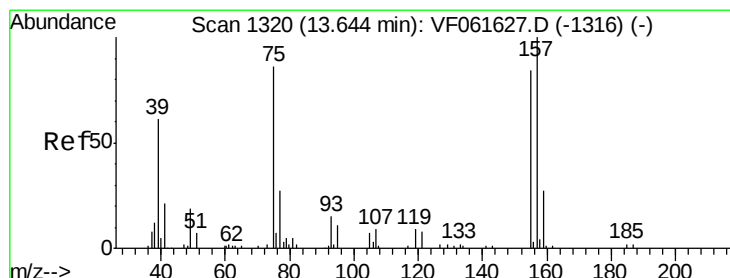
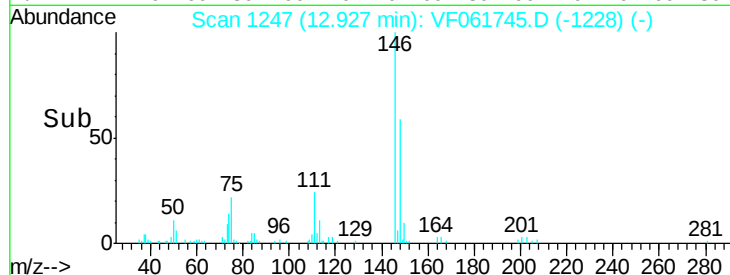
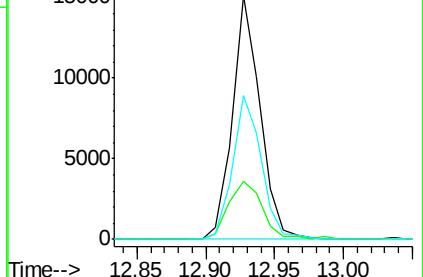
148 59.2 32.3 96.9



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.847 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

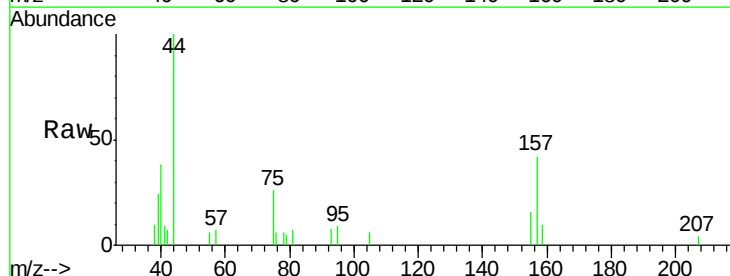
Tgt Ion: 75 Resp: 925

Ion Ratio Lower Upper

75 100

155 63.8 48.9 146.8

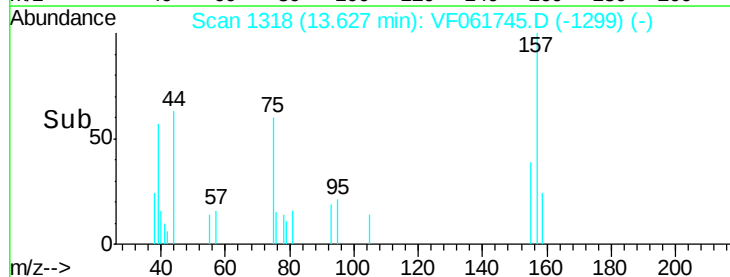
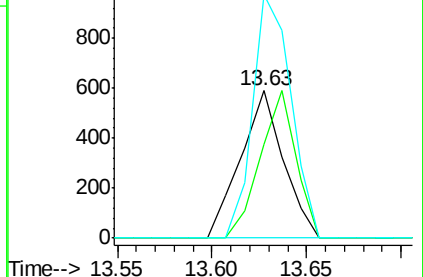
157 165.4 58.3 174.8

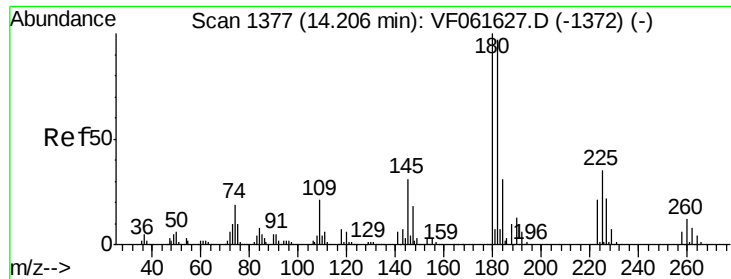


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

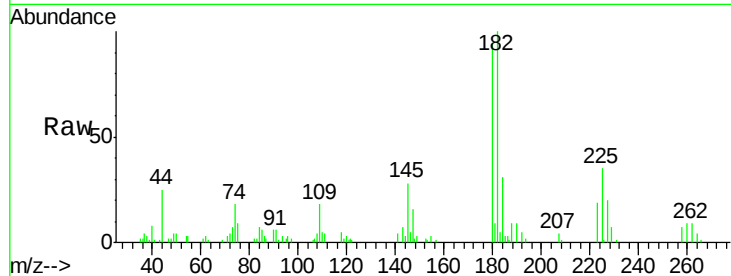




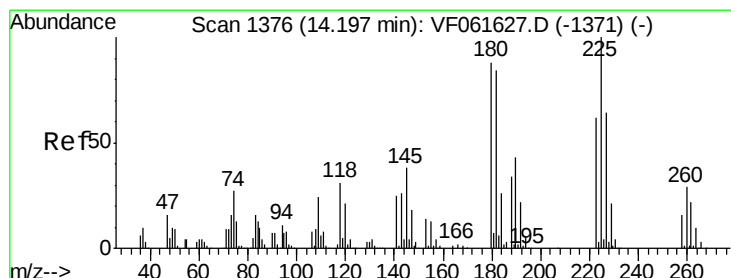
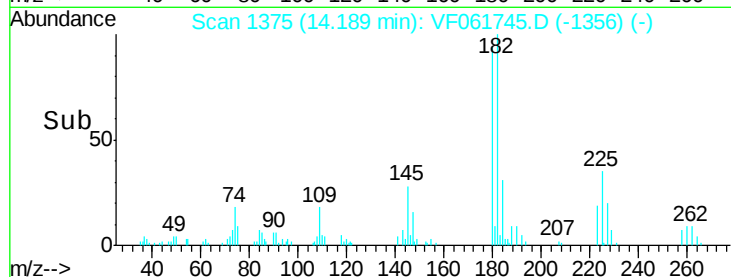
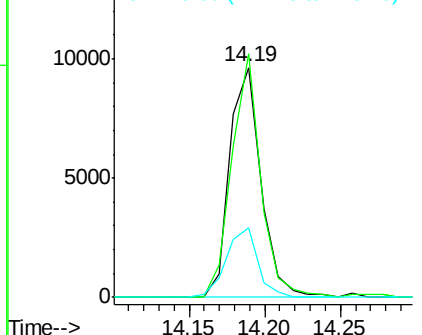
#93
 1,2,4-Trichlorobenzene
 Concen: 2.397 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

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

Tot Ion:180 Resp: 13877
 Ion Ratio Lower Upper
 180 100
 182 106.1 48.6 145.9
 145 30.0 15.3 45.9

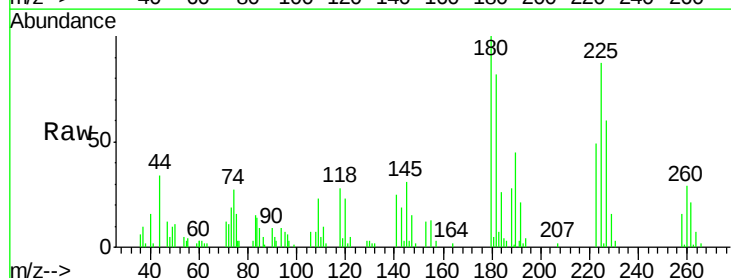


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

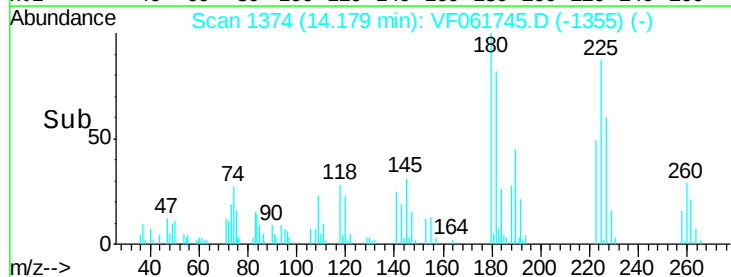
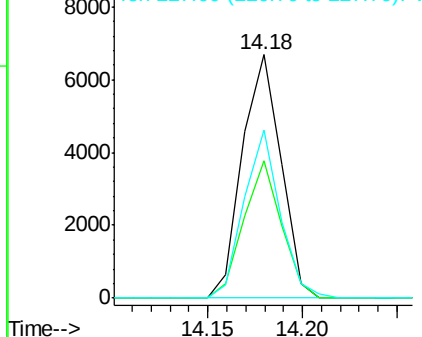


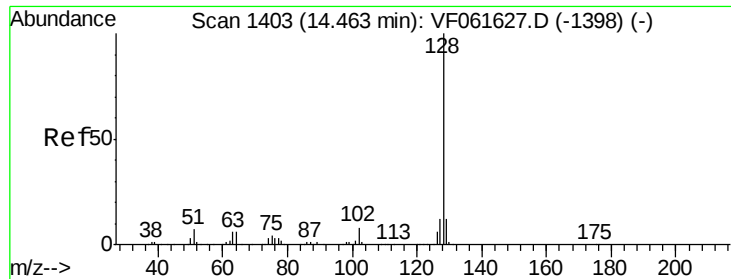
#94
 Hexachlorobutadiene
 Concen: 2.647 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion:225 Resp: 9465
 Ion Ratio Lower Upper
 225 100
 223 56.6 30.9 92.7
 227 69.0 32.1 96.3



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

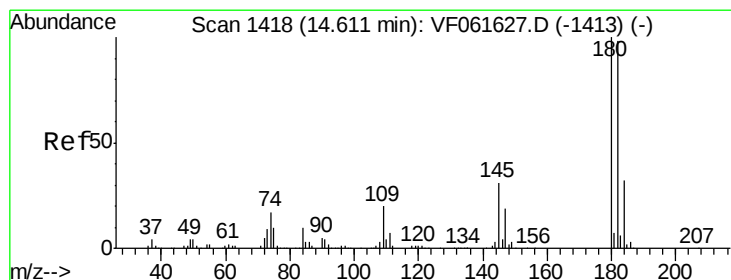
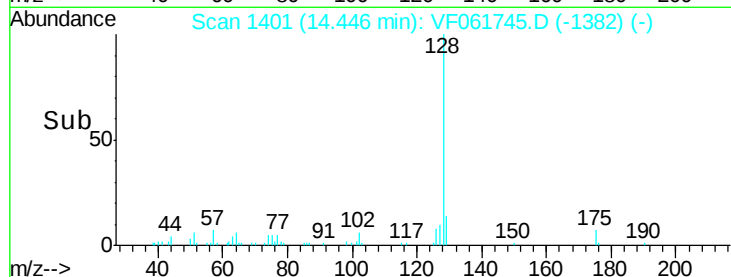
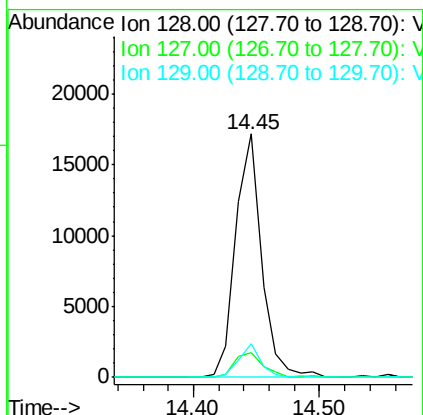
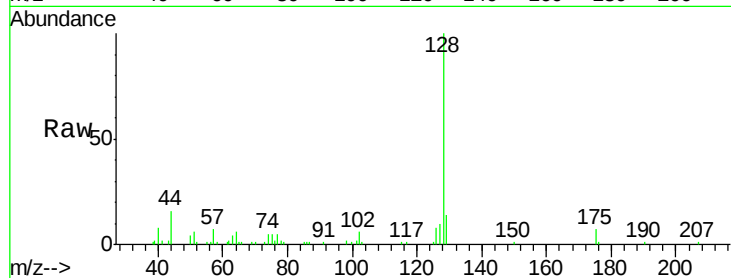




#95
Naphthalene
Concen: 2.412 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

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

Tot Ion:128 Resp: 24441
Ion Ratio Lower Upper
128 100
127 10.1 9.8 14.6
129 14.0 9.4 14.2



#96
1,2,3-Trichlorobenzene
Concen: 2.368 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion:180 Resp: 12586
Ion Ratio Lower Upper
180 100
182 87.5 49.0 147.2
145 30.4 15.4 46.1

