

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022519\
 Data File : VF061732.D
 Acq On : 25 Feb 2019 16:07
 Operator : VA/AP
 Sample : K1560-01LOD
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Quant Time: Feb 26 04:55:23 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	4.87	168	298953	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	471341	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	413178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	239591	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	124702	56.88	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	113.76%	
35) Dibromofluoromethane	4.12	113	179987	51.42	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.84%	
50) Toluene-d8	7.55	98	510059	50.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.41	95	210039	51.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	9476	2.760	ug/l	93
3) Chloromethane	1.10	50	10760	2.987	ug/l	89
4) Vinyl Chloride	1.13	62	8553	2.554	ug/l #	82
5) Bromomethane	1.32	94	8538	3.705	ug/l #	59
6) Chloroethane	1.39	64	3920	2.375	ug/l	89
7) Trichlorofluoromethane	1.47	101	10908	2.701	ug/l	89
8) Diethyl Ether	1.63	74	2519	2.475	ug/l	50
9) 1,1,2-Trichlorotrifluoroet	1.83	101	8329	2.859	ug/l	93
10) Methyl Iodide	1.90	142	15433m	2.773	ug/l	
11) Tert butyl alcohol	2.59	59	1969	15.519	ug/l #	68
12) 1,1-Dichloroethene	1.78	96	7959	3.107	ug/l #	69
13) Acrolein	2.00	56	3409	21.379	ug/l #	58
14) Allyl chloride	2.10	41	8055	2.562	ug/l	89
15) Acrylonitrile	2.95	53	6463	14.361	ug/l	89
16) Acetone	2.25	43	6909	14.689	ug/l #	72
17) Carbon Disulfide	1.84	76	21787	2.706	ug/l	98
18) Methyl Acetate	2.37	43	10076	9.509	ug/l #	72
19) Methyl tert-butyl Ether	2.43	73	12326	2.815	ug/l #	90
20) Methylene Chloride	2.25	84	14319m	3.328	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	8052	2.891	ug/l	91
22) Diisopropyl ether	2.81	45	20086	2.662	ug/l #	86
23) Vinyl Acetate	3.19	43	40794	11.069	ug/l	99
24) 1,1-Dichloroethane	2.88	63	12454	2.727	ug/l	99
25) 2-Butanone	4.34	43	14296	13.914	ug/l #	82
26) 2,2-Dichloropropane	3.60	77	5745	2.970	ug/l	97
27) cis-1,2-Dichloroethene	3.48	96	9844	2.693	ug/l	89
28) Bromochloromethane	3.71	49	6236	2.846	ug/l	87
29) Tetrahydrofuran	4.08	42	6667	14.277	ug/l #	86
30) Chloroform	3.86	83	14620	2.815	ug/l	97
31) Cyclohexane	3.71	56	14622	2.958	ug/l #	90
32) 1,1,1-Trichloroethane	4.10	97	9597	2.821	ug/l #	83
36) 1,1-Dichloropropene	4.29	75	12849	2.752	ug/l	88
37) Ethyl Acetate	4.12	43	4588	2.116	ug/l	93
38) Carbon Tetrachloride	3.99	117	8929	2.769	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	13466	2.439	ug/l	97
40) Benzene	4.63	78	28907	2.367	ug/l	97
41) Methacrylonitrile	4.75	41	3782	3.410	ug/l #	81
42) 1,2-Dichloroethane	4.95	62	7489	2.563	ug/l	98
43) Isopropyl Acetate	6.96	43	5628	2.192	ug/l #	87
44) Trichloroethene	5.51	130	10087	2.554	ug/l	64
45) 1,2-Dichloropropane	6.23	63	6723	2.277	ug/l #	84
46) Dibromomethane	6.09	93	4163	2.290	ug/l	91
47) Bromodichloromethane	6.39	83	9611	2.415	ug/l	97
48) Methyl methacrylate	6.72	41	3914	2.534	ug/l #	87
49) 1,4-Dioxane	6.71	88	419	28.852	ug/l #	42
51) 4-Methyl-2-Pentanone	8.26	43	21561	11.755	ug/l	98
52) Toluene	7.62	92	21279	2.873	ug/l	100
53) t-1,3-Dichloropropene	8.28	75	7785	2.350	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	10199	2.311	ug/l	91
55) 1,1,2-Trichloroethane	8.49	97	4968	2.283	ug/l	87
56) Ethyl methacrylate	8.62	69	6213	2.564	ug/l	90
57) 1,3-Dichloropropane	8.85	76	8602	2.368	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.29	63	4245	10.154	ug/l	91
59) 2-Hexanone	9.49	43	15346	11.935	ug/l	92
60) Dibromochloromethane	8.70	129	6784	2.240	ug/l	99
61) 1,2-Dibromoethane	8.99	107	5877	2.490	ug/l	84
64) Tetrachloroethene	8.15	164	9454	2.799	ug/l	94
65) Chlorobenzene	9.80	112	22722	2.710	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	8709	2.651	ug/l	93
67) Ethyl Benzene	9.90	91	41860	3.002	ug/l	96
68) m/p-Xylenes	10.13	106	32218	6.038	ug/l	100
69) o-Xylene	10.72	106	15237	2.676	ug/l	94
70) Styrene	10.78	104	20052	2.489	ug/l	94
71) Bromoform	10.77	173	3939	2.208	ug/l	92
73) Isopropylbenzene	11.12	105	41282	2.420	ug/l	98
74) N-amyl acetate	11.38	43	9562	2.335	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.69	83	7574	2.478	ug/l	95
76) 1,2,3-Trichloropropane	11.79	75	4516	2.173	ug/l	100
77) Bromobenzene	11.49	156	10115	2.400	ug/l	91
78) n-propylbenzene	11.59	91	53795	2.748	ug/l	95
79) 2-Chlorotoluene	11.72	91	29654	2.705	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	37782	2.771	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	2690	2.700	ug/l #	83
82) 4-Chlorotoluene	11.90	91	29798	2.619	ug/l	87
83) tert-Butylbenzene	12.13	119	38232	2.532	ug/l	96
84) 1,2,4-Trimethylbenzene	12.20	105	43220	3.191	ug/l	98
85) sec-Butylbenzene	12.30	105	49475	2.534	ug/l	95
86) p-Isopropyltoluene	12.46	119	45125	2.753	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	23290	2.835	ug/l	92
88) 1,4-Dichlorobenzene	12.56	146	20944	2.651	ug/l	96
89) n-Butylbenzene	12.85	91	41103	2.656	ug/l	97
90) Hexachloroethane	12.91	117	9363	2.456	ug/l	86
91) 1,2-Dichlorobenzene	12.94	146	20083	2.570	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	883	1.822	ug/l	77

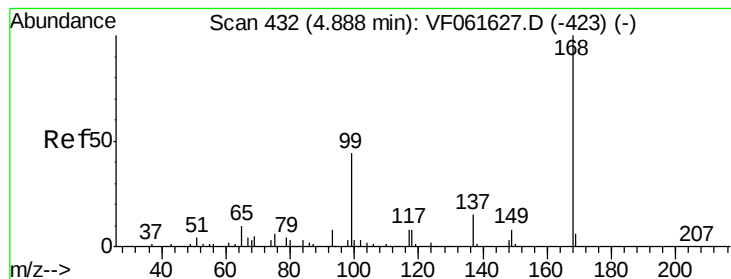
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	13911	2.484	ug/l	96
94) Hexachlorobutadiene	14.19	225	8493	2.455	ug/l	91
95) Naphthalene	14.45	128	20918	2.135	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.60	180	11923	2.319	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

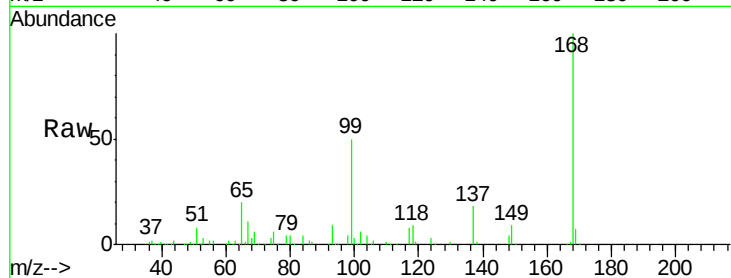
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:168 Resp: 298953

Ion Ratio Lower Upper

168 100

99 49.8 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

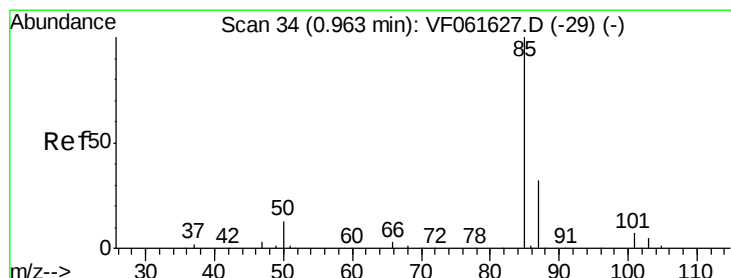
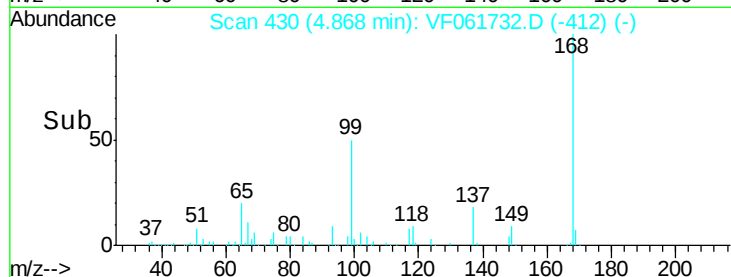
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 2.760 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061732.D

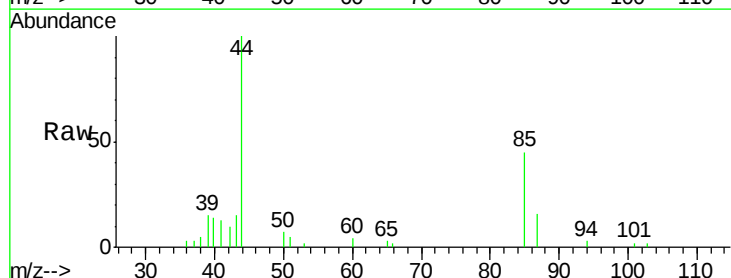
Acq: 25 Feb 2019 16:07

Tgt Ion: 85 Resp: 9476

Ion Ratio Lower Upper

85 100

87 35.9 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

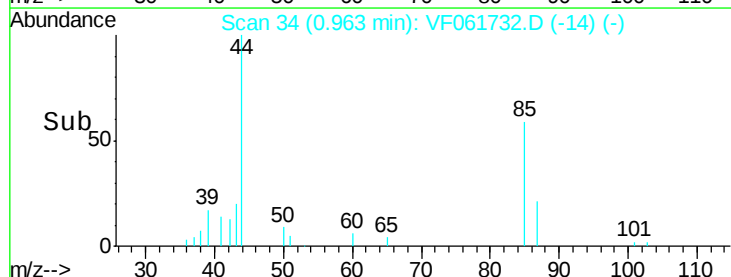
1500

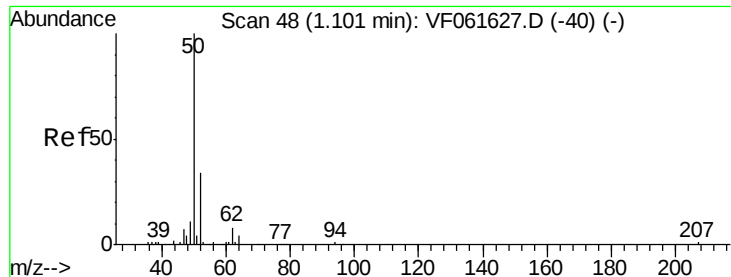
1000

500

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 2.987 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

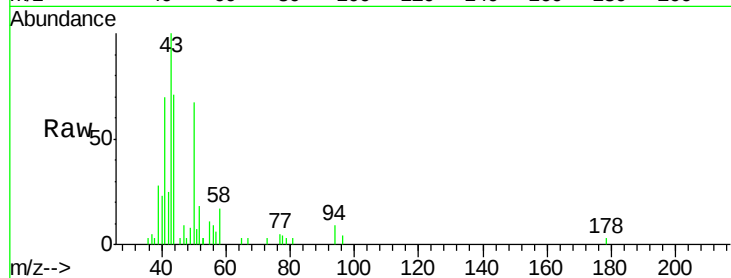
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 50 Resp: 10760

Ion Ratio Lower Upper

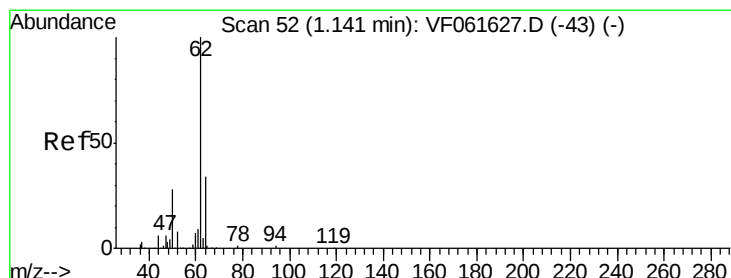
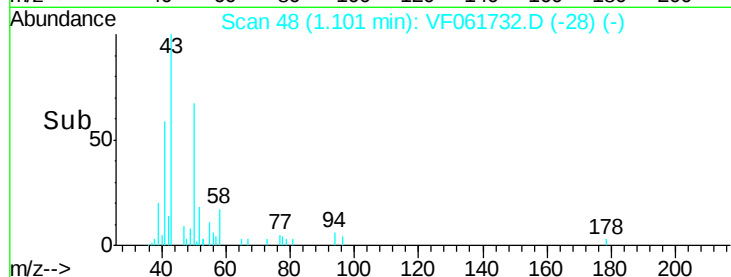
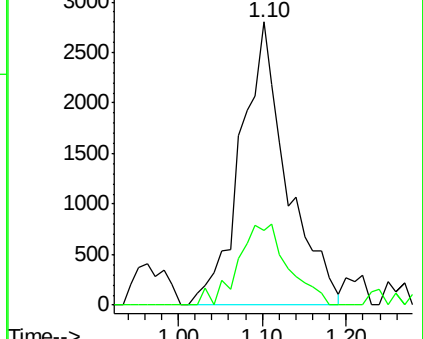
50 100

52 26.6 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 2.554 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061732.D

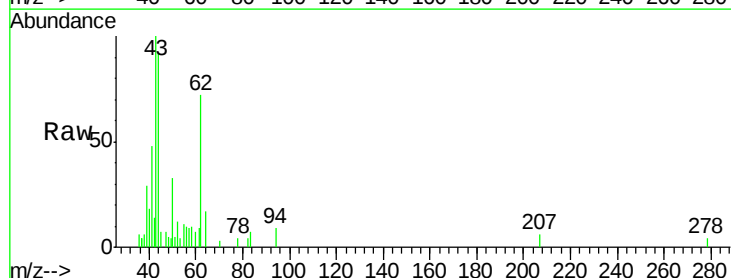
Acq: 25 Feb 2019 16:07

Tgt Ion: 62 Resp: 8553

Ion Ratio Lower Upper

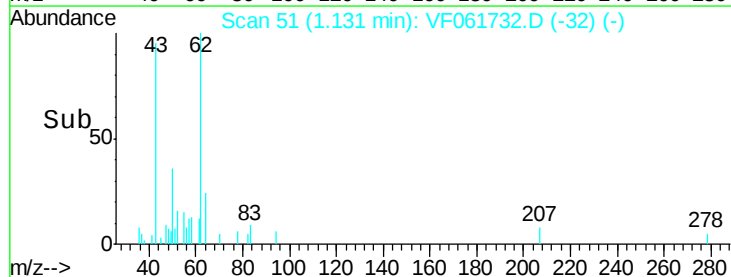
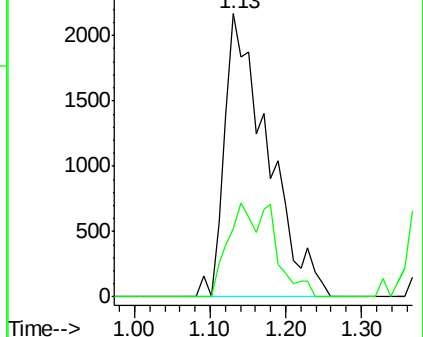
62 100

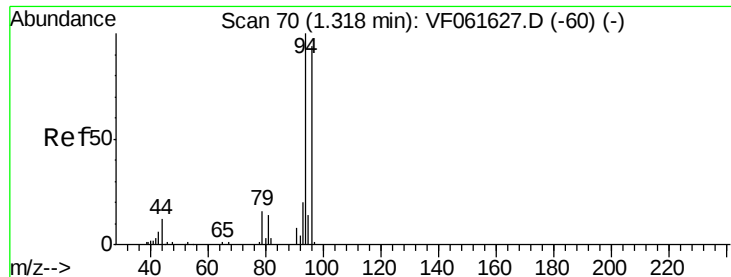
64 24.1 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 3.705 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

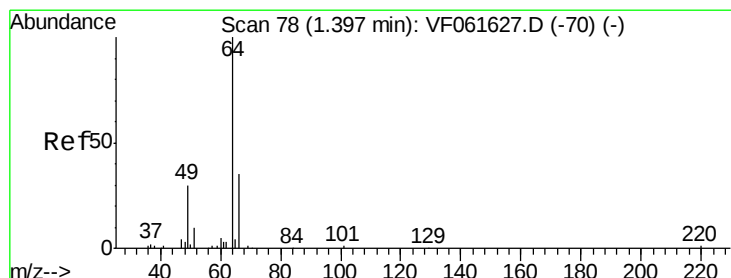
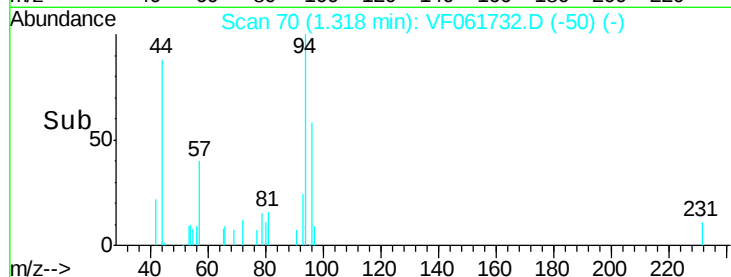
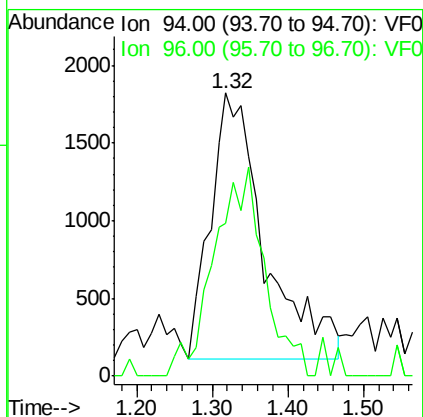
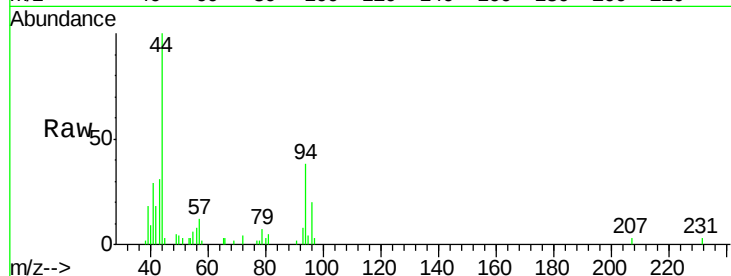
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 94 Resp: 8538

Ion Ratio Lower Upper

94 100

96 54.2 74.6 112.0#



#6

Chloroethane

Concen: 2.375 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061732.D

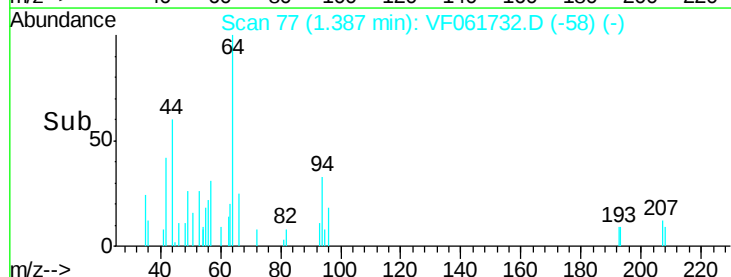
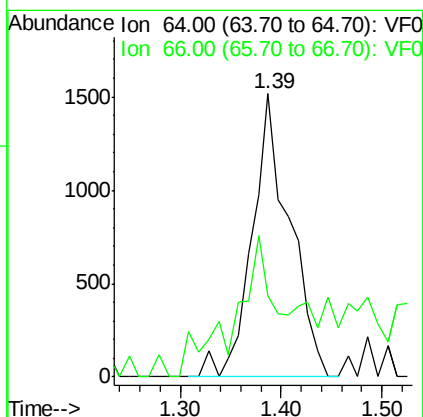
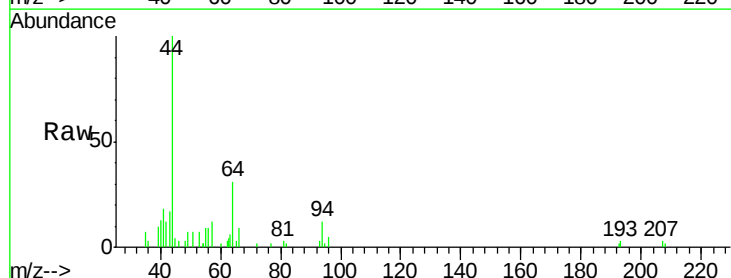
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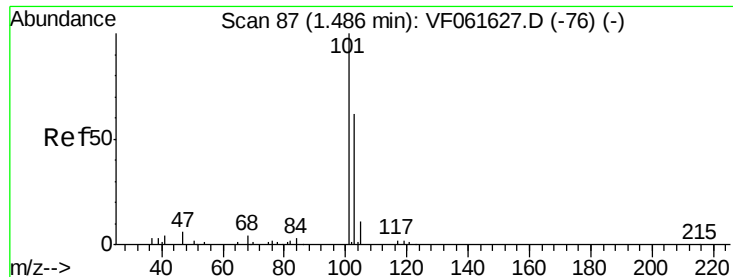
Tgt Ion: 64 Resp: 3920

Ion Ratio Lower Upper

64 100

66 28.5 27.9 41.9





#7

Trichlorofluoromethane

Concen: 2.701 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

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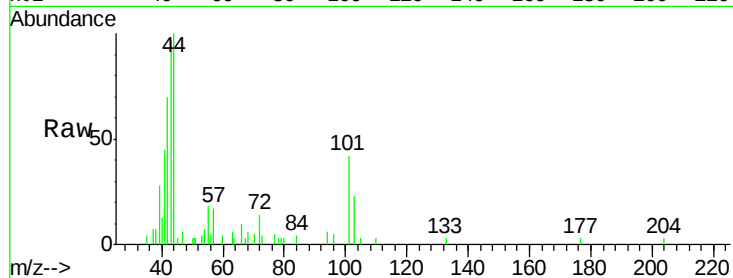
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:101 Resp: 10908

Ion Ratio Lower Upper

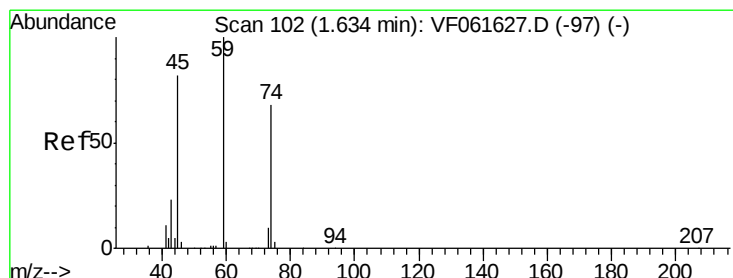
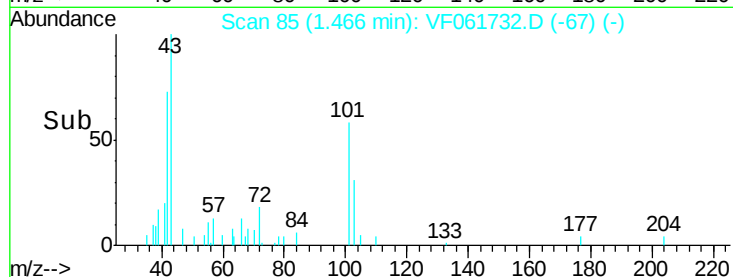
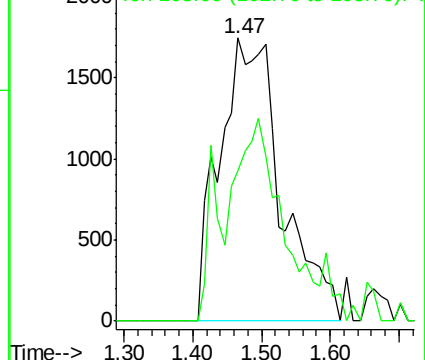
101 100

103 53.2 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.475 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061732.D

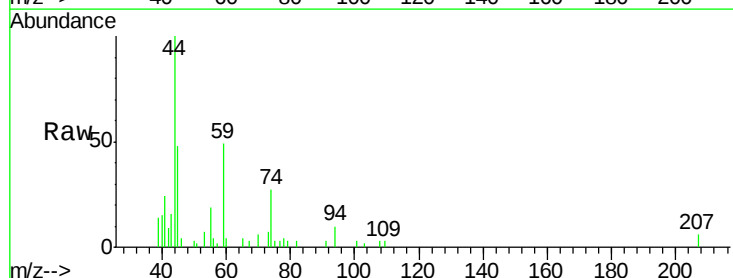
Acq: 25 Feb 2019 16:07

Tgt Ion: 74 Resp: 2519

Ion Ratio Lower Upper

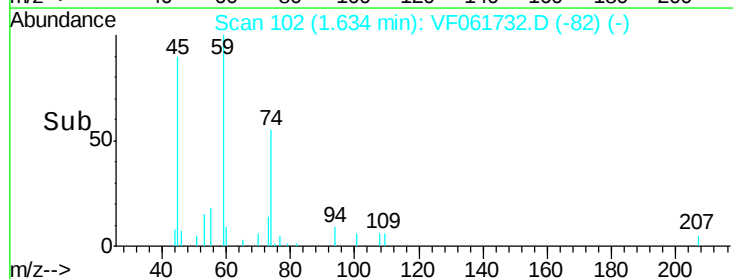
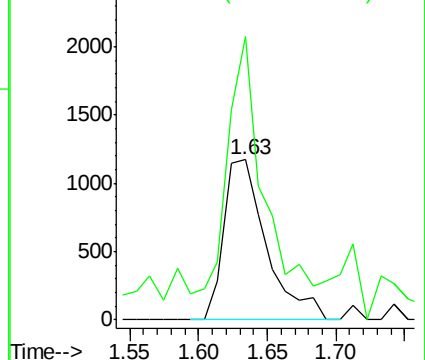
74 100

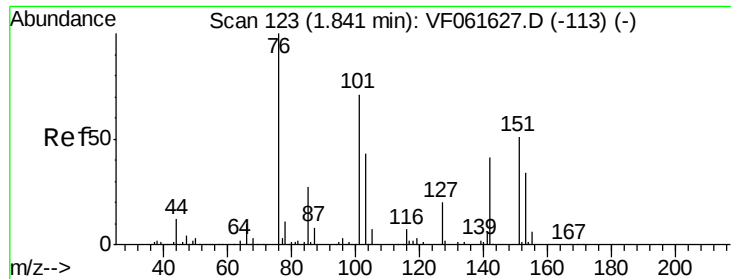
45 176.9 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.859 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

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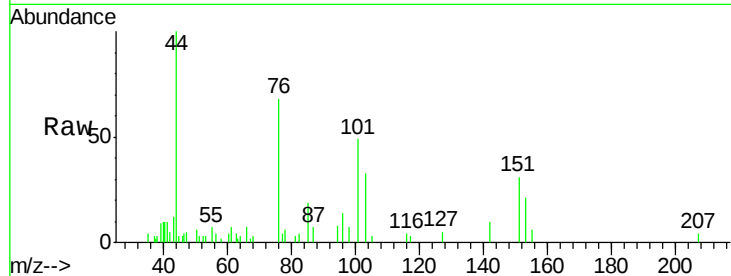
Tot Ion:101 Resp: 8329

Ion Ratio Lower Upper

101 100

85 39.7 29.8 44.6

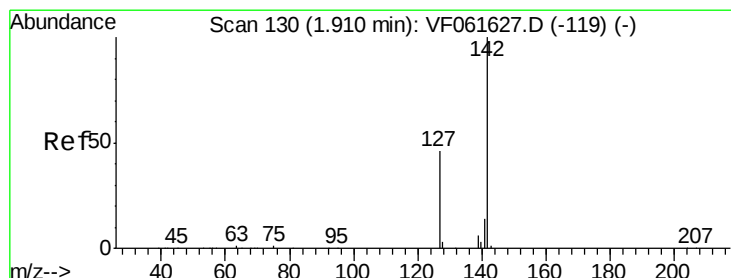
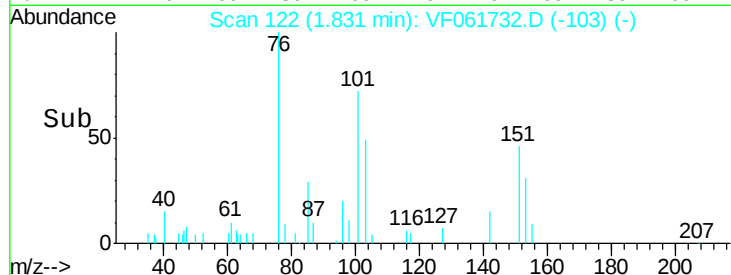
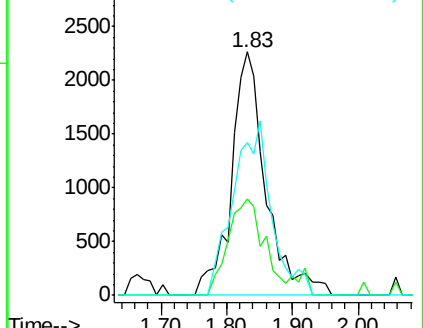
151 63.0 56.3 84.5



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: 2.773 ug/l m

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

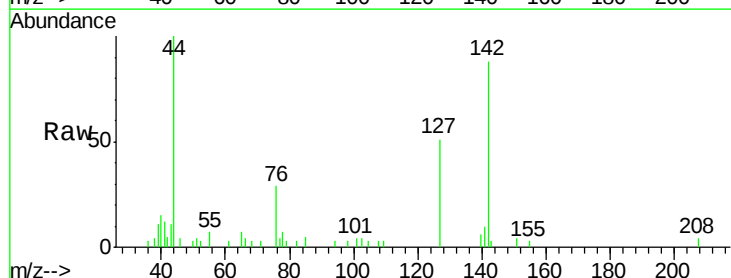
Tgt Ion:142 Resp: 15433

Ion Ratio Lower Upper

142 100

127 58.0 36.6 55.0#

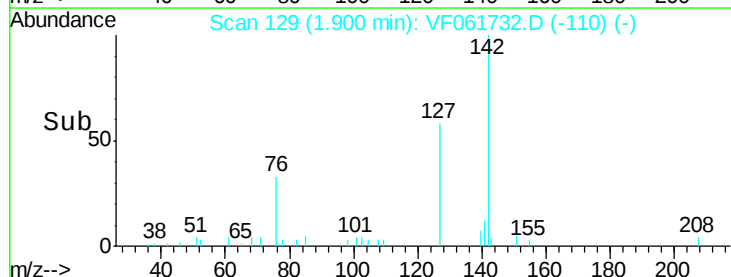
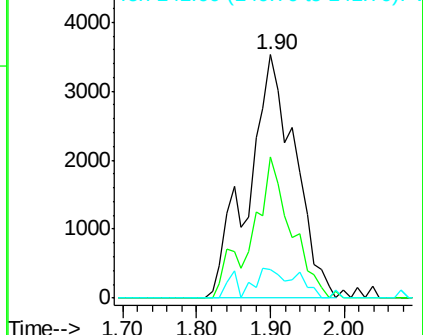
141 11.6 11.0 16.6

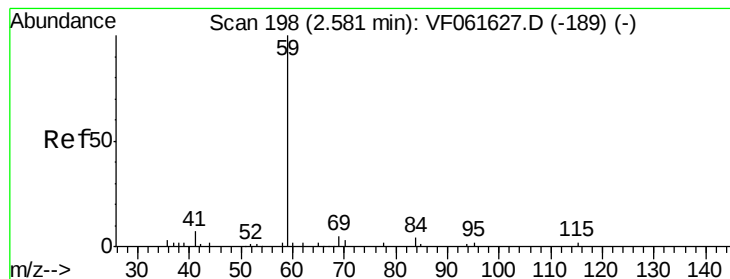


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



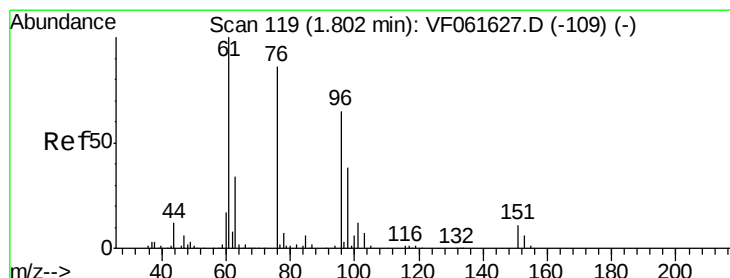
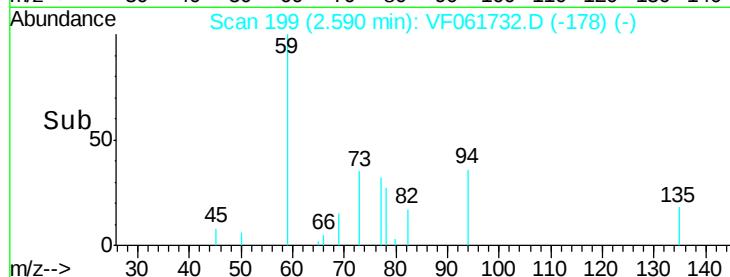
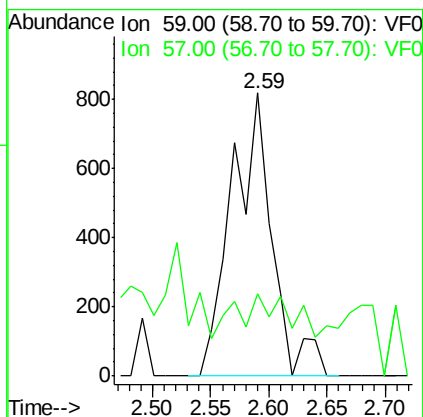
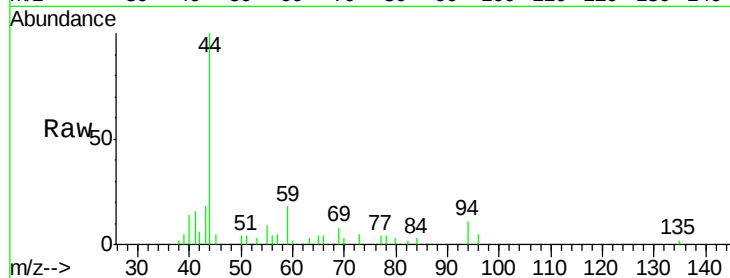


#11

Tert butyl alcohol
 Concen: 15.519 ug/l
 RT: 2.59 min Scan# 199
 Delta R.T. 0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

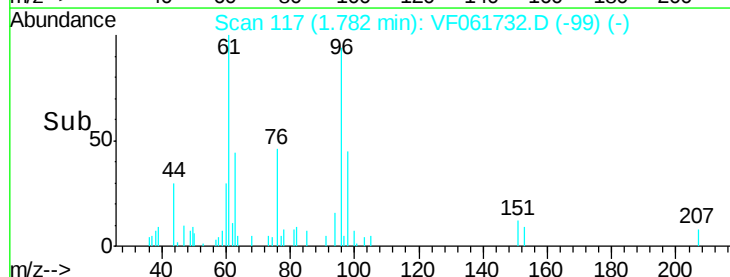
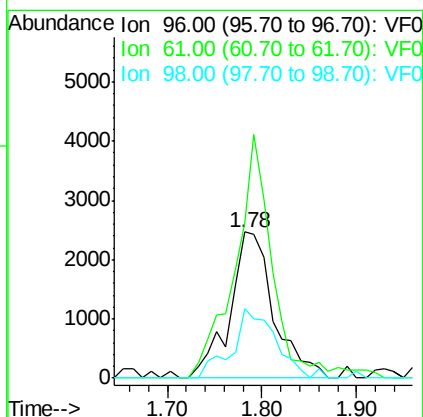
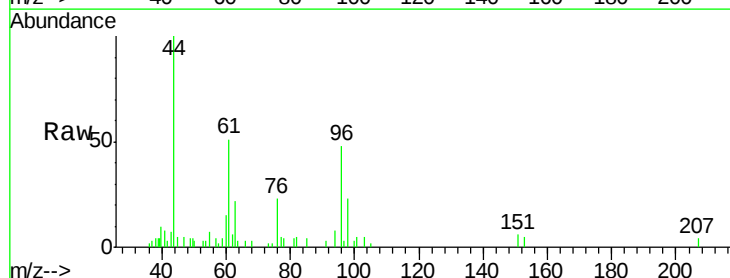
Tot Ion: 59 Resp: 1969
 Ion Ratio Lower Upper
 59 100
 57 29.0 12.5 18.7#

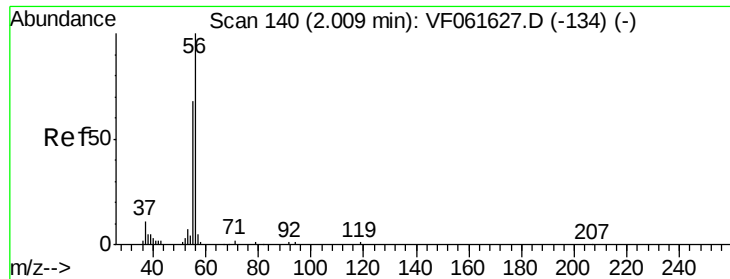


#12

1,1-Dichloroethene
 Concen: 3.107 ug/l
 RT: 1.78 min Scan# 117
 Delta R.T. -0.02 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 96 Resp: 7959
 Ion Ratio Lower Upper
 96 100
 61 106.3 122.6 184.0#
 98 47.5 47.2 70.8





#13

Acrolein

Concen: 21.379 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

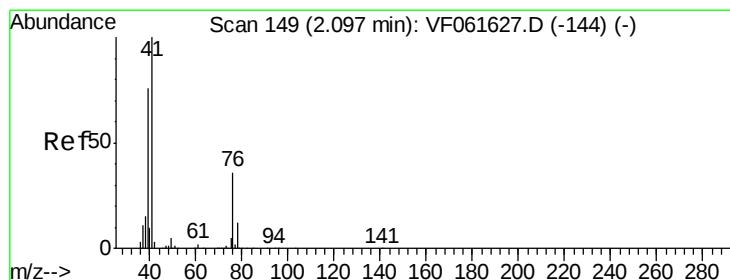
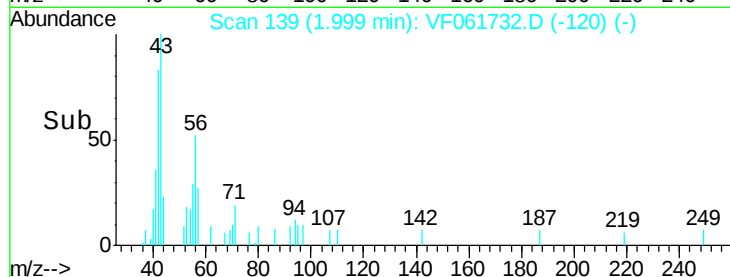
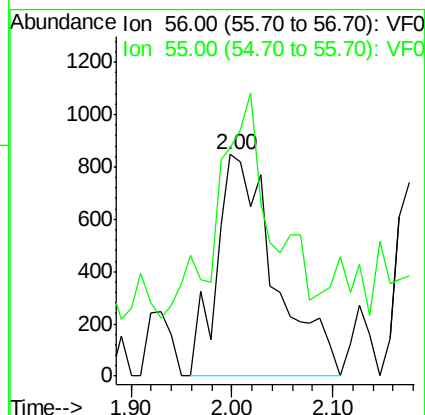
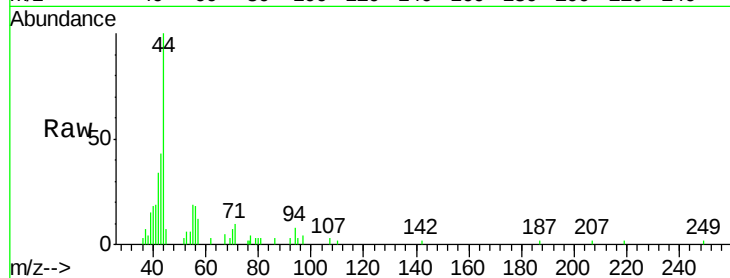
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 56 Resp: 3409

Ion Ratio Lower Upper

56 100

55 103.3 55.0 82.6#



#14

Allyl chloride

Concen: 2.562 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

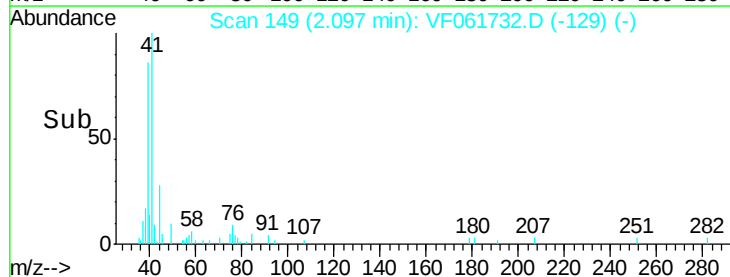
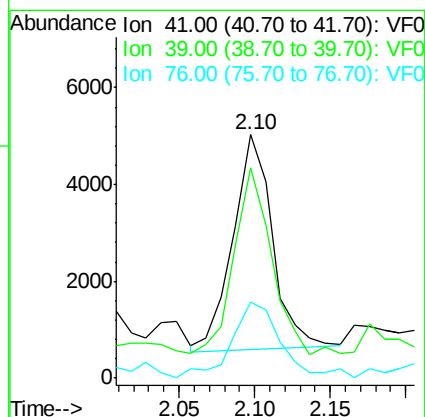
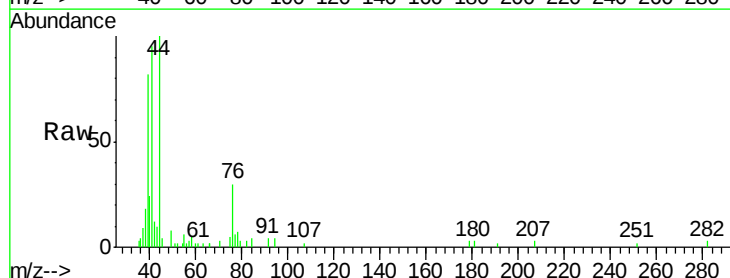
Tgt Ion: 41 Resp: 8055

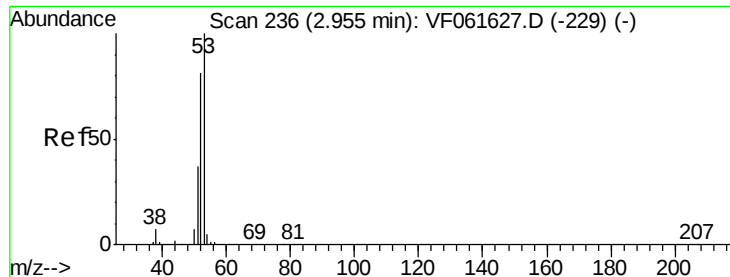
Ion Ratio Lower Upper

41 100

39 86.2 61.6 92.4

76 31.4 30.3 45.5





#15

Acrylonitrile

Concen: 14.361 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

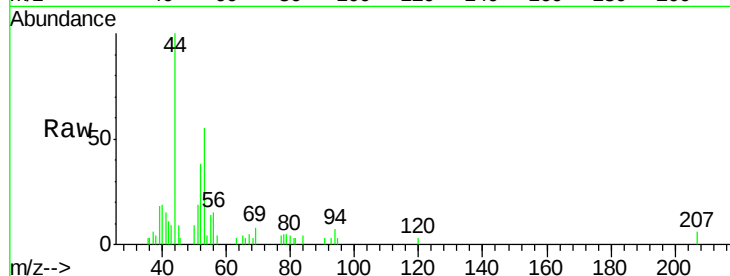
Tot Ion: 53 Resp: 6463

Ion Ratio Lower Upper

53 100

52 68.7 64.6 97.0

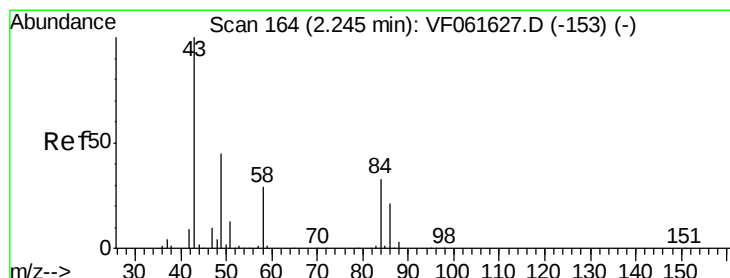
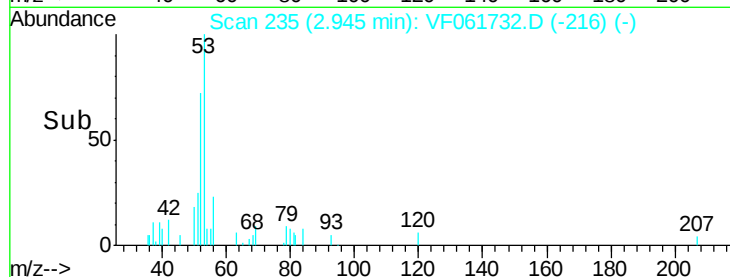
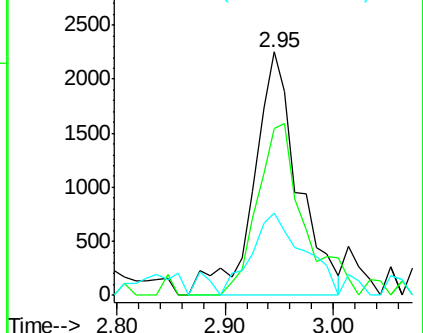
51 33.8 29.8 44.8



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: 14.689 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF061732.D

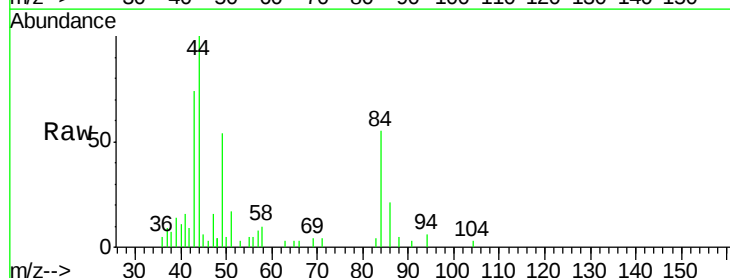
Acq: 25 Feb 2019 16:07

Tgt Ion: 43 Resp: 6909

Ion Ratio Lower Upper

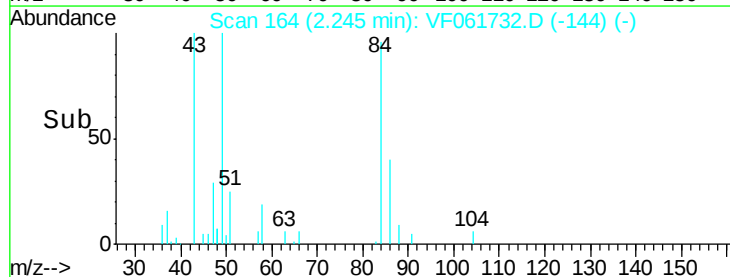
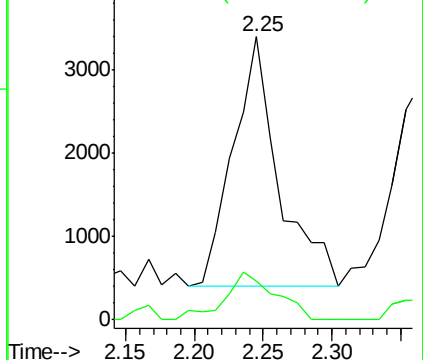
43 100

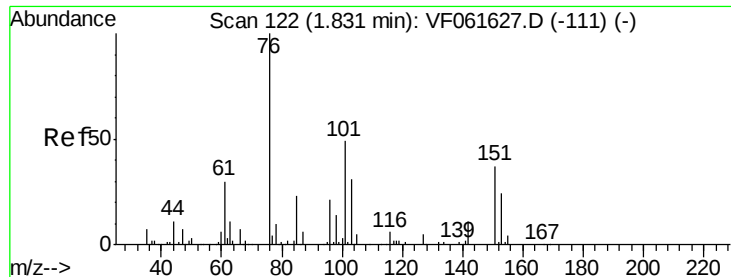
58 13.8 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

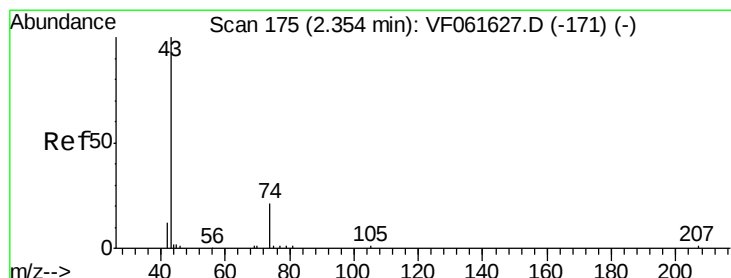
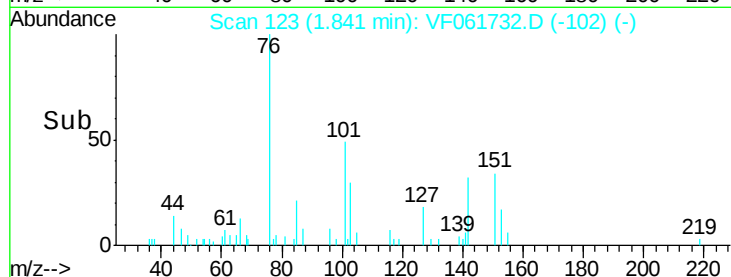
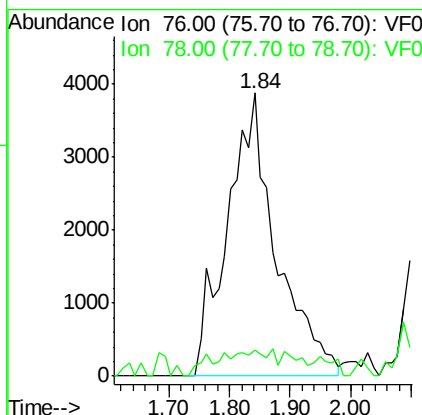
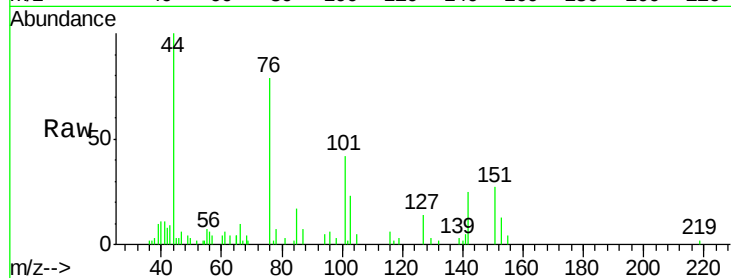




#17
Carbon Disulfide
Concen: 2.706 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

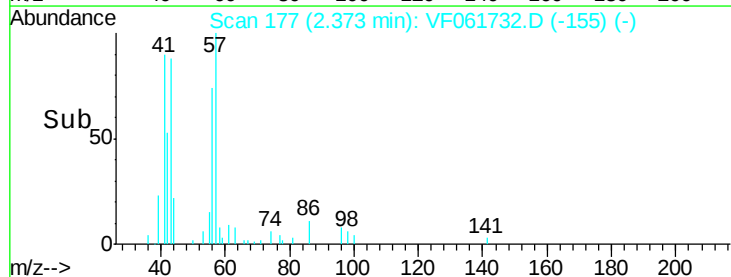
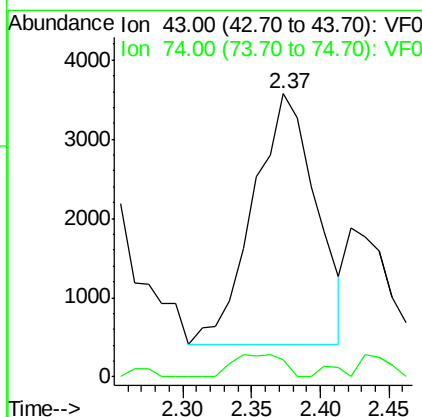
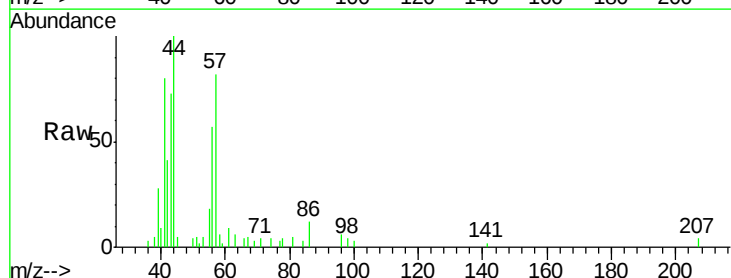
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

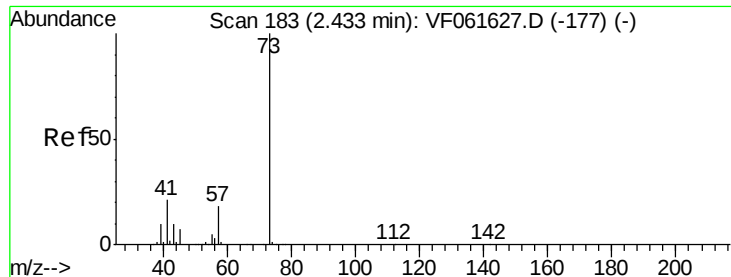
Tot Ion: 76 Resp: 21787
Ion Ratio Lower Upper
76 100
78 9.3 7.9 11.9



#18
Methyl Acetate
Concen: 9.509 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 43 Resp: 10076
Ion Ratio Lower Upper
43 100
74 5.9 14.6 21.8#



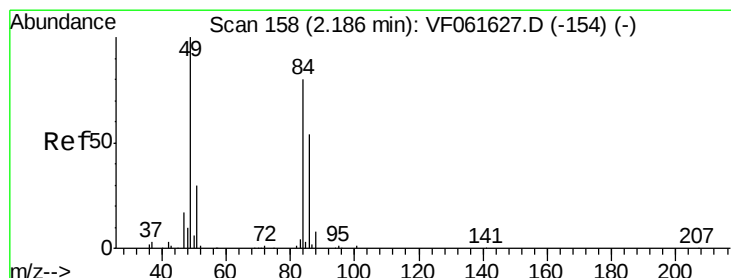
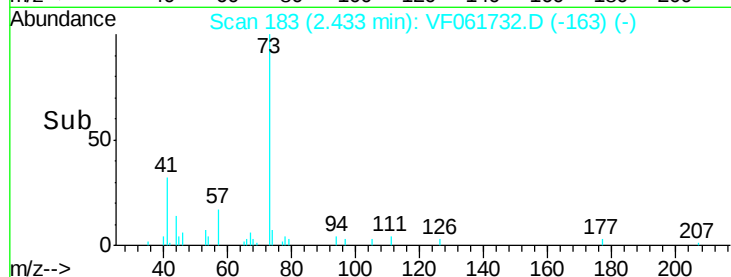
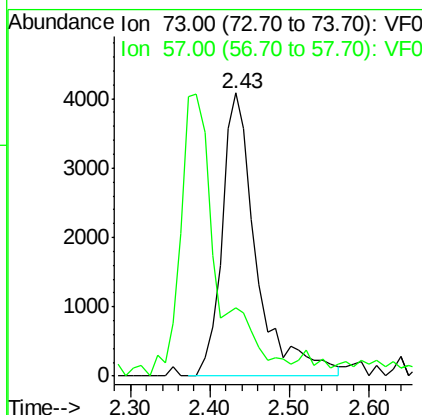
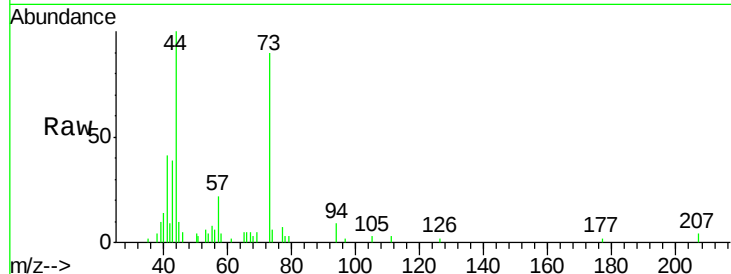


#19

Methyl tert-butyl Ether
 Concen: 2.815 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

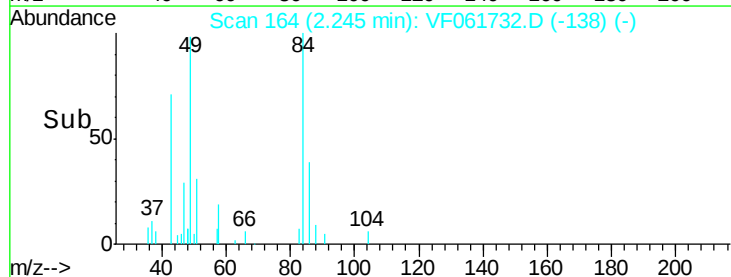
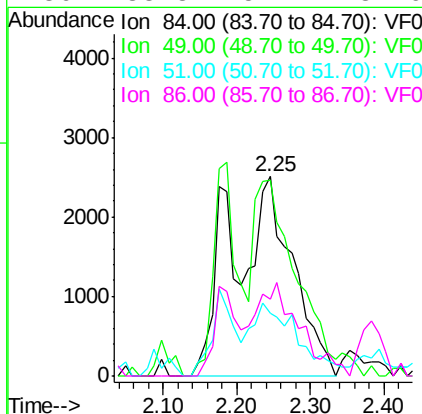
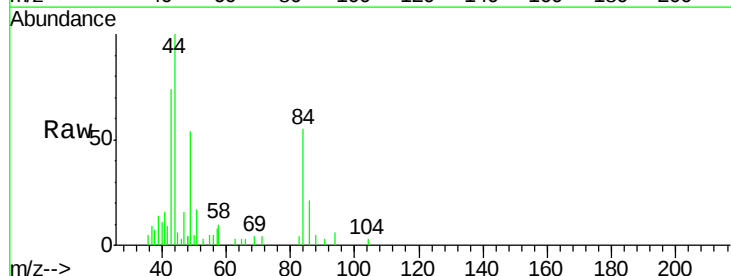
Tot Ion: 73 Resp: 12326
 Ion Ratio Lower Upper
 73 100
 57 24.3 15.8 23.8#

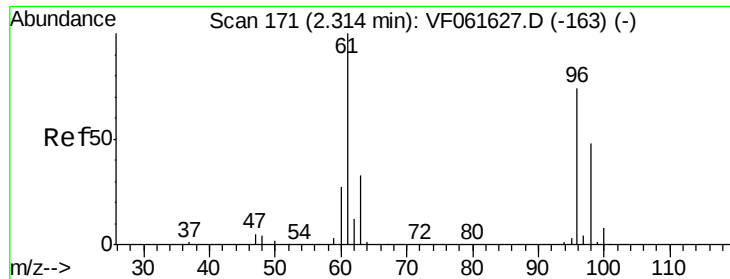


#20

Methylene Chloride
 Concen: 3.328 ug/l m
 RT: 2.25 min Scan# 164
 Delta R.T. 0.06 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 84 Resp: 14319
 Ion Ratio Lower Upper
 84 100
 49 98.2 101.8 152.8#
 51 31.4 31.1 46.7
 86 38.8 54.4 81.6#





#21

trans-1,2-Dichloroethene

Concen: 2.891 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

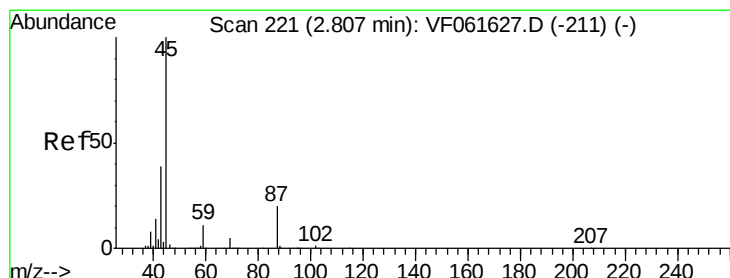
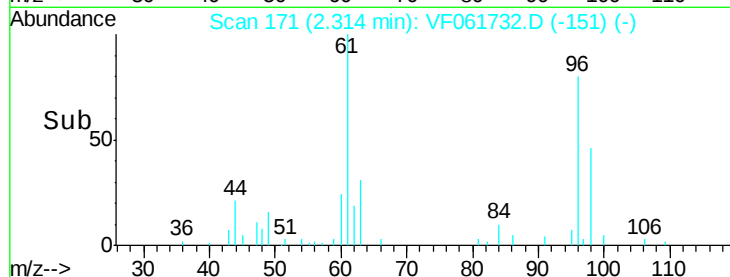
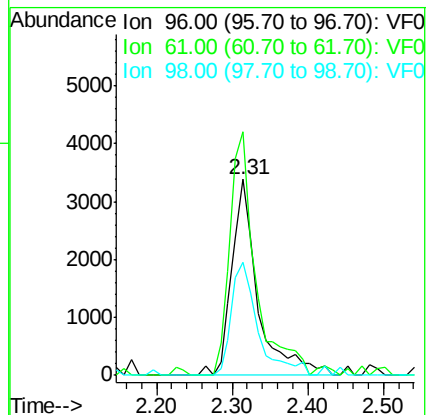
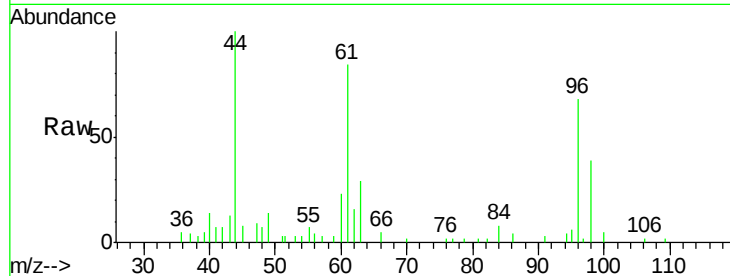
Tot Ion: 96 Resp: 8052

Ion Ratio Lower Upper

96 100

61 124.3 108.2 162.4

98 57.6 52.2 78.2



#22

Diisopropyl ether

Concen: 2.662 ug/l

RT: 2.81 min Scan# 221

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Tgt Ion: 45 Resp: 20086

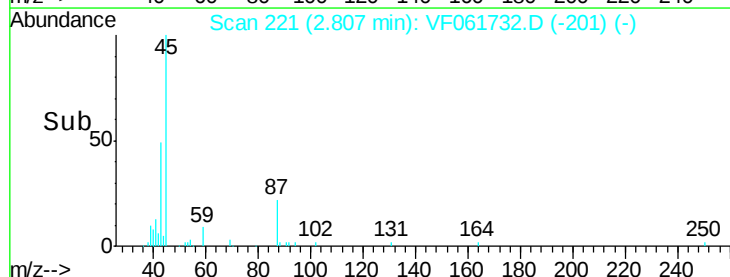
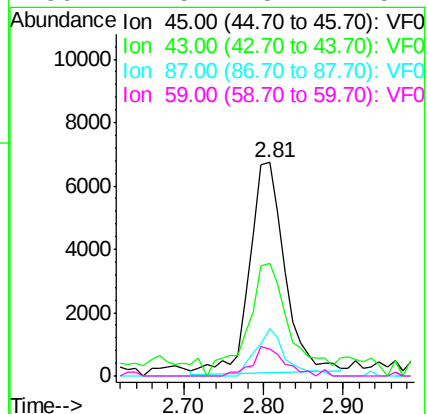
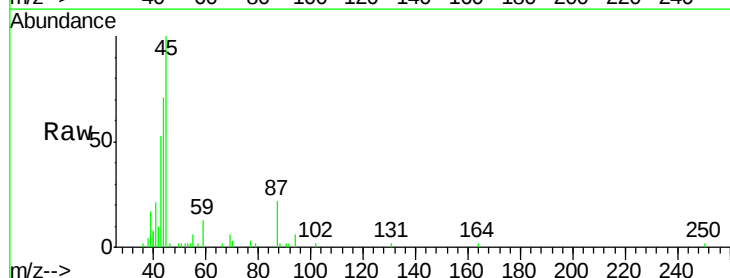
Ion Ratio Lower Upper

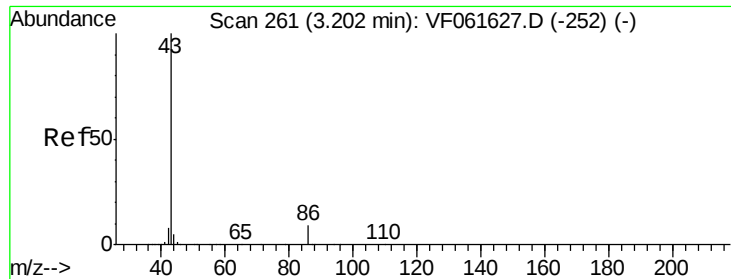
45 100

43 52.8 31.4 47.2#

87 22.0 16.3 24.5

59 12.5 8.7 13.1





#23

Vinyl Acetate

Concen: 11.069 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

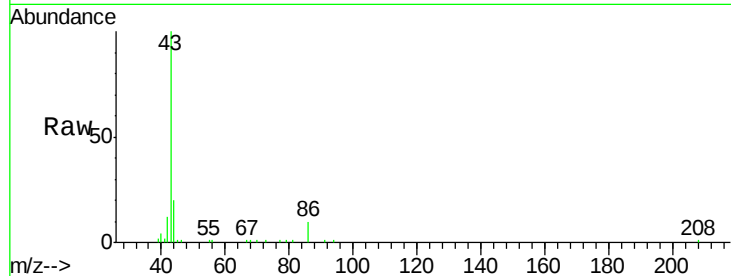
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 40794

Ion Ratio Lower Upper

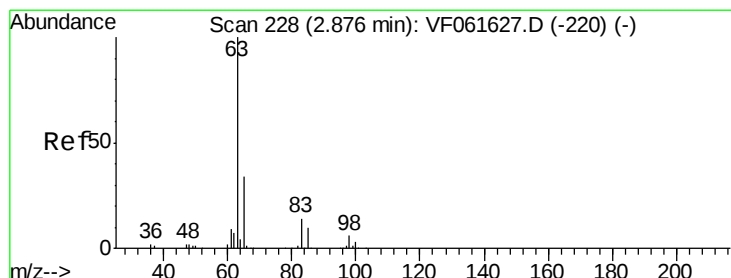
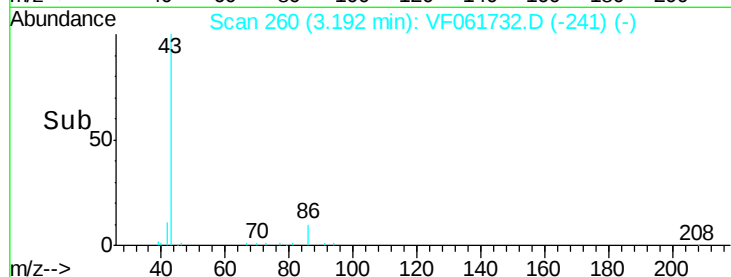
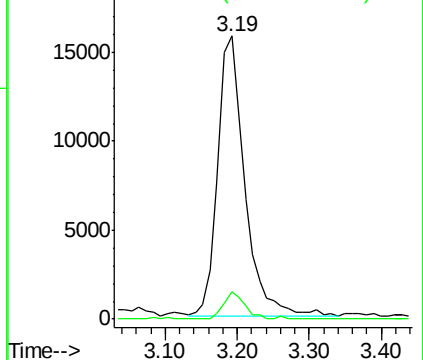
43 100

86 9.8 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 2.727 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

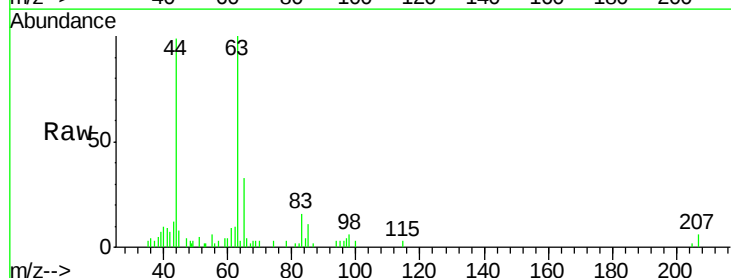
Tgt Ion: 63 Resp: 12454

Ion Ratio Lower Upper

63 100

98 6.0 2.8 8.3

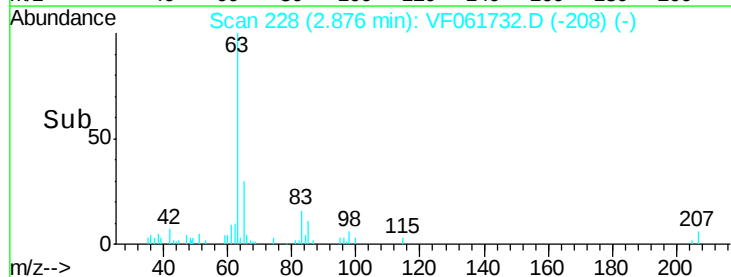
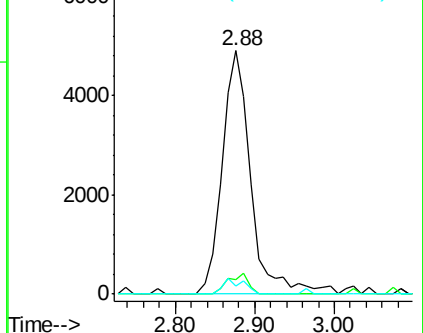
100 3.4 1.8 5.4

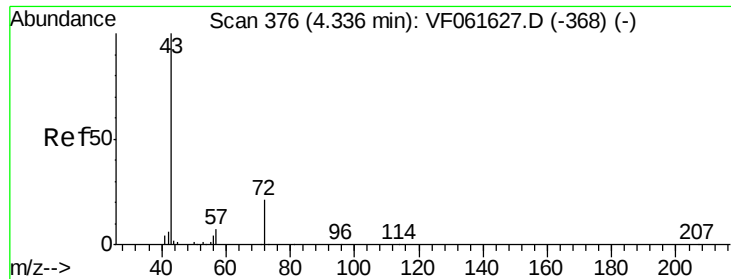


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 13.914 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

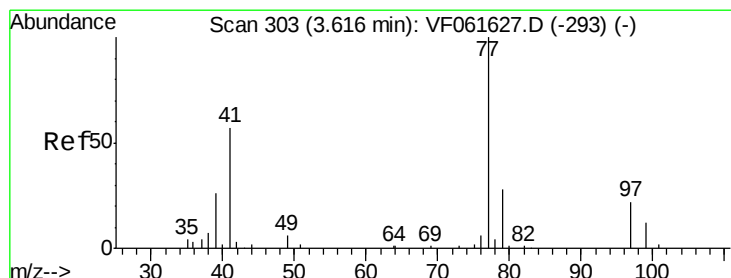
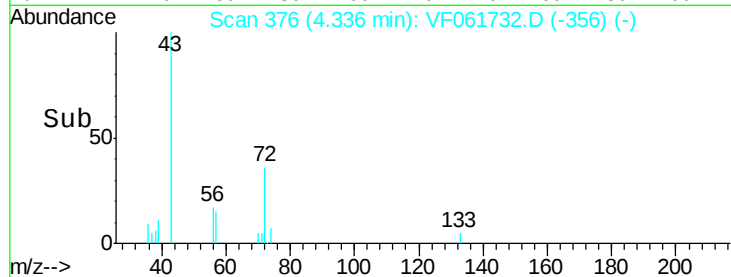
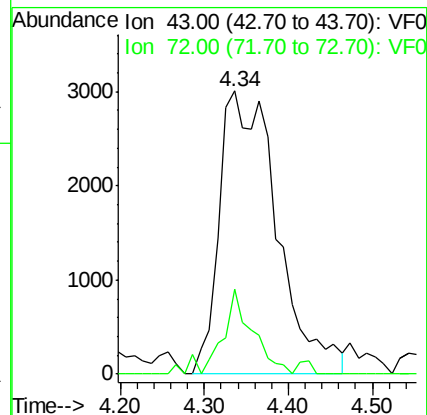
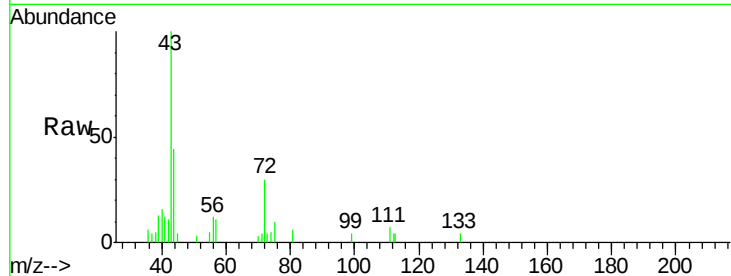
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 14296

Ion Ratio Lower Upper

43 100

72 30.0 17.1 25.7#



#26

2,2-Dichloropropane

Concen: 2.970 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061732.D

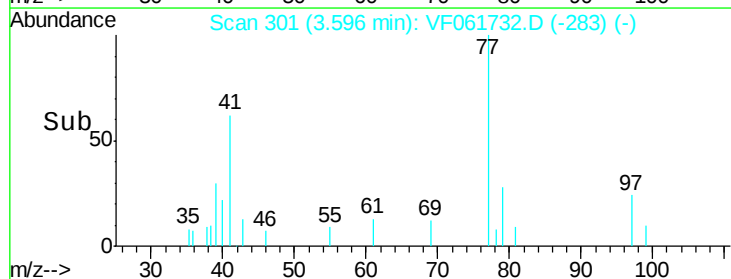
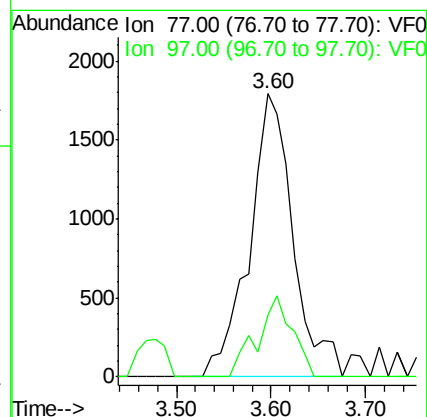
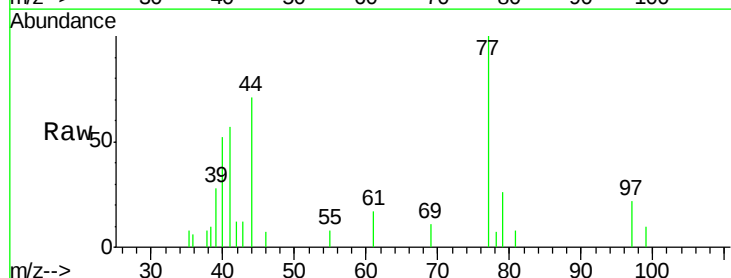
Acq: 25 Feb 2019 16:07

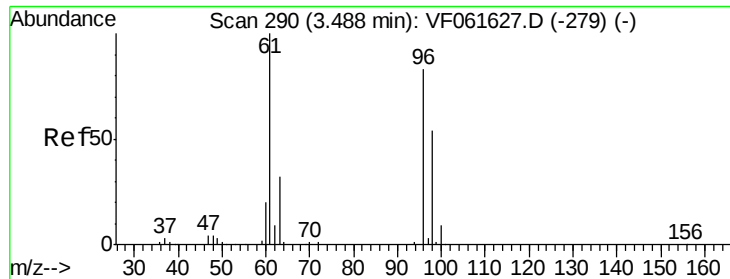
Tgt Ion: 77 Resp: 5745

Ion Ratio Lower Upper

77 100

97 22.0 11.7 35.0



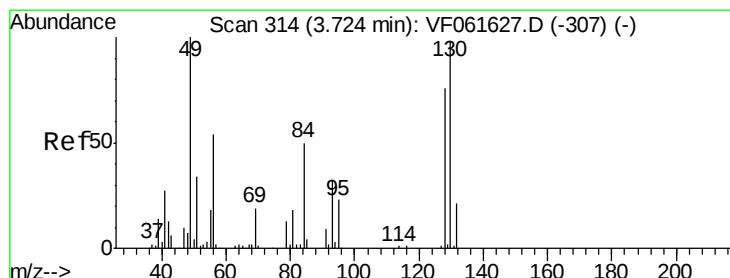
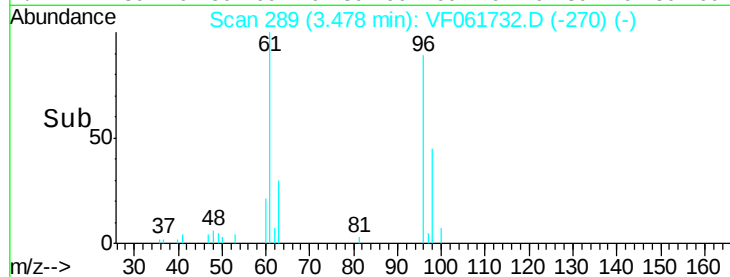
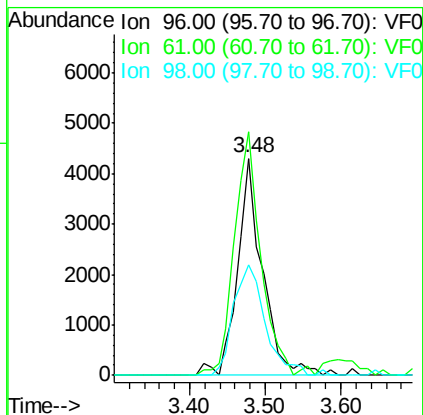
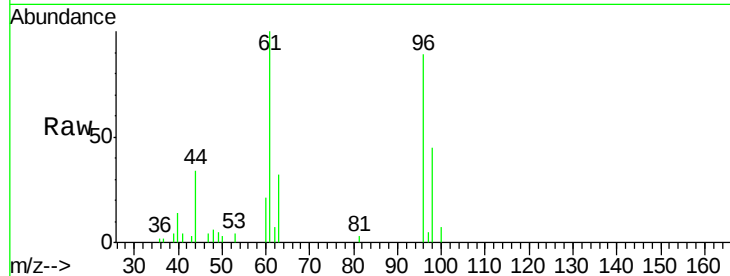


#27

cis-1,2-Dichloroethene
 Concen: 2.693 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

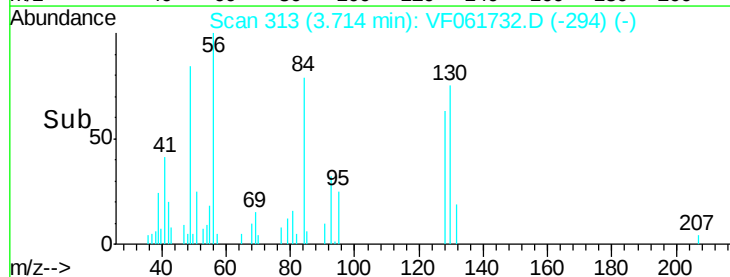
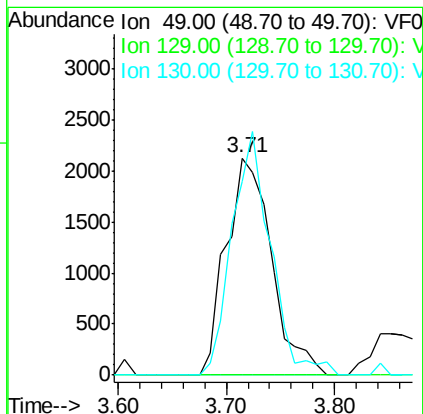
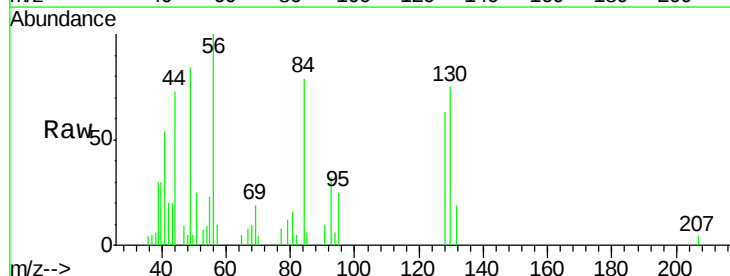
Tot Ion: 96 Resp: 9844
 Ion Ratio Lower Upper
 96 100
 61 112.2 0.0 241.6
 98 50.7 0.0 130.2

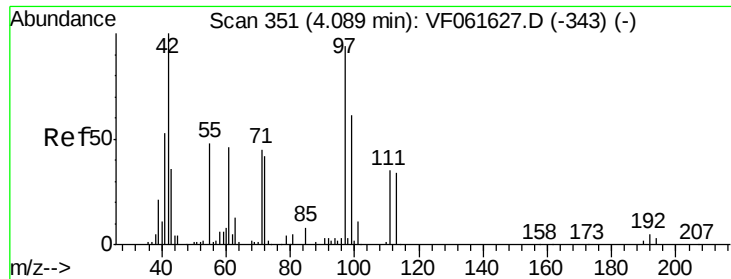


#28

Bromochloromethane
 Concen: 2.846 ug/l
 RT: 3.71 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 49 Resp: 6236
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.4
 130 83.9 77.7 116.5

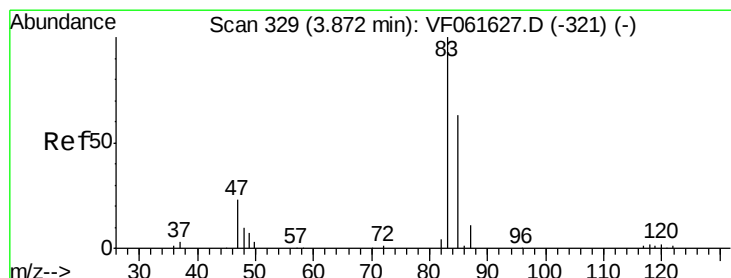
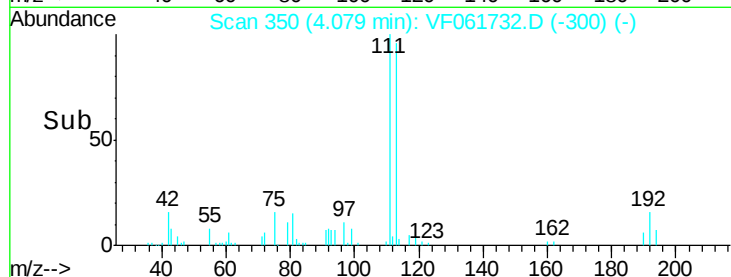
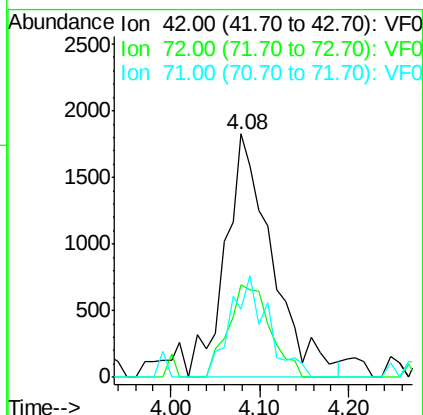
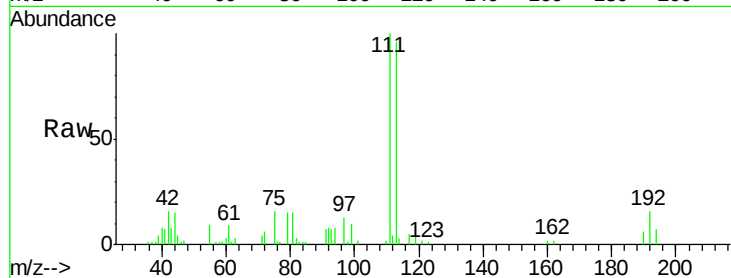




#29
Tetrahydrofuran
Concen: 14.277 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

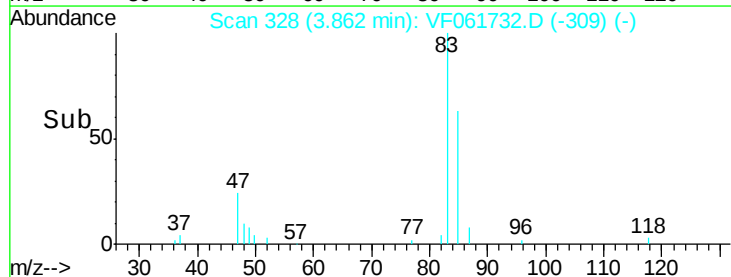
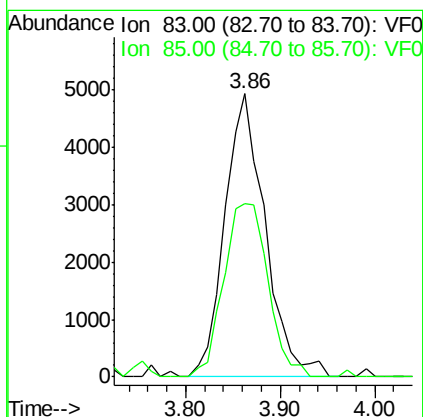
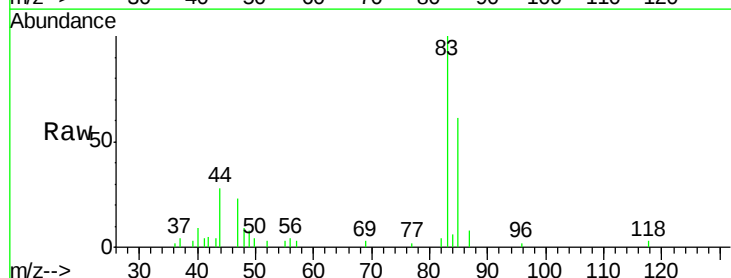
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

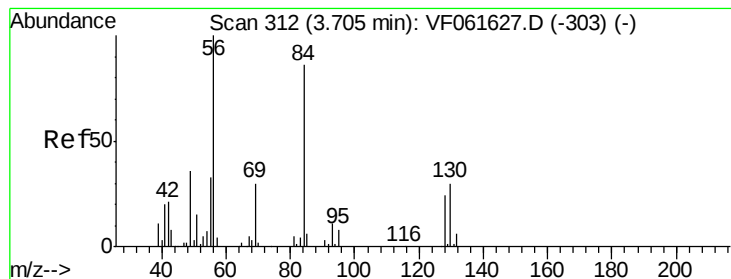
Tot Ion: 42 Resp: 6667
Ion Ratio Lower Upper
42 100
72 34.4 35.2 52.8#
71 33.5 32.9 49.3



#30
Chloroform
Concen: 2.815 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 83 Resp: 14620
Ion Ratio Lower Upper
83 100
85 61.3 51.1 76.7





#31

Cyclohexane

Concen: 2.958 ug/l

RT: 3.71 min Scan# 313

Delta R.T. 0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

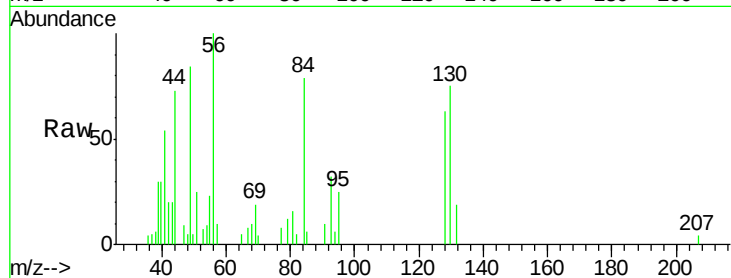
Tot Ion: 56 Resp: 14622

Ion Ratio Lower Upper

56 100

69 18.9 23.8 35.8#

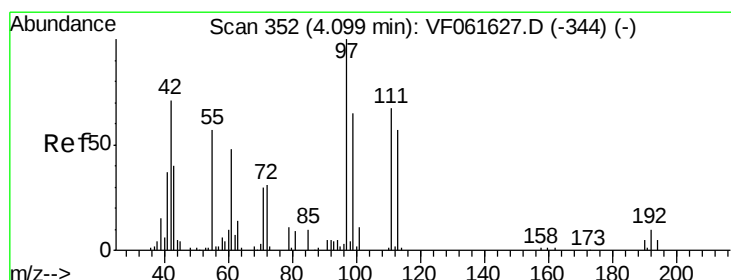
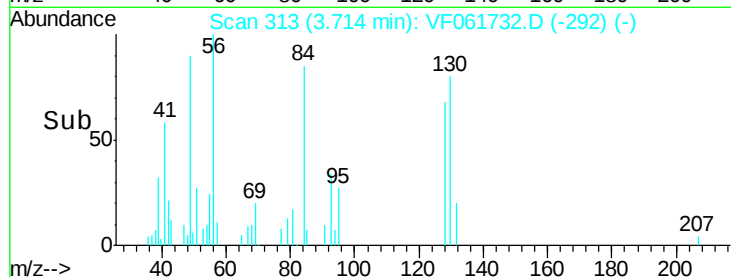
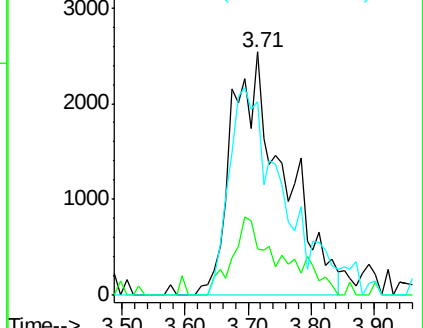
84 79.3 68.6 103.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 2.821 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

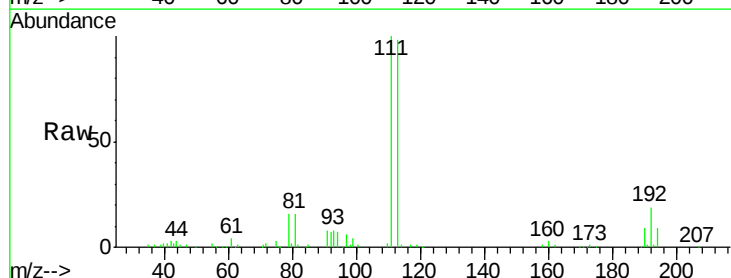
Tgt Ion: 97 Resp: 9597

Ion Ratio Lower Upper

97 100

99 74.7 52.2 78.2

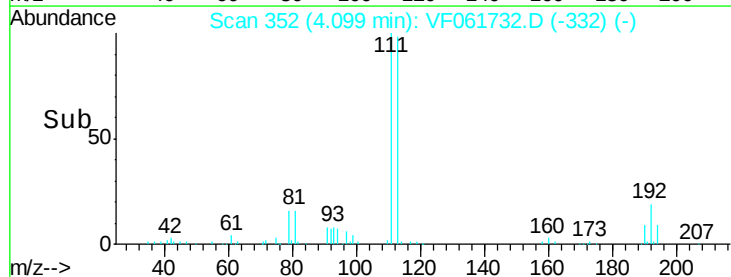
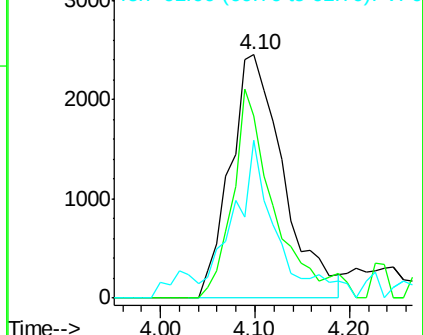
61 64.6 39.2 58.8#

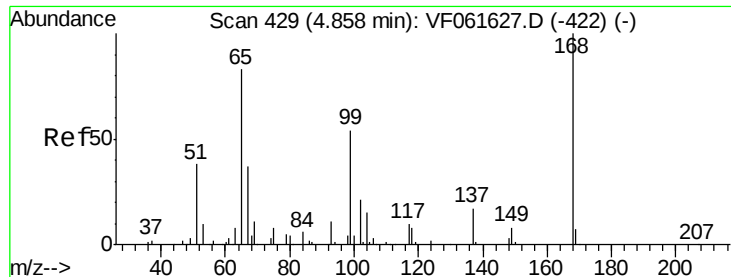


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

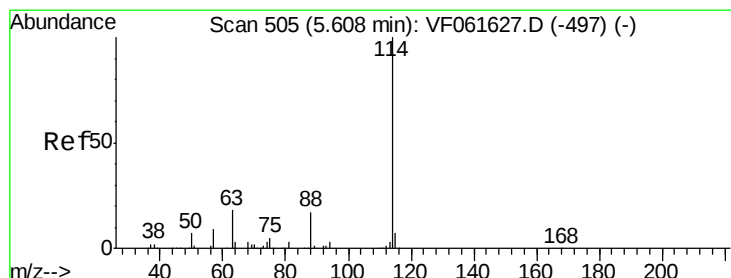
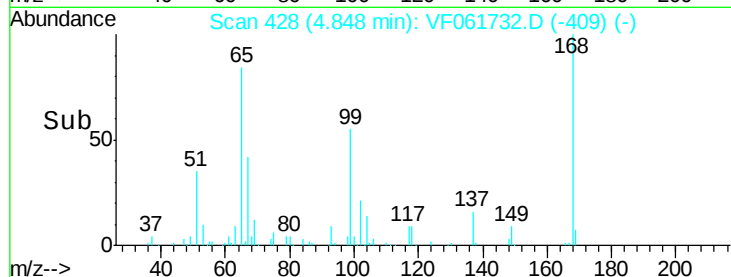
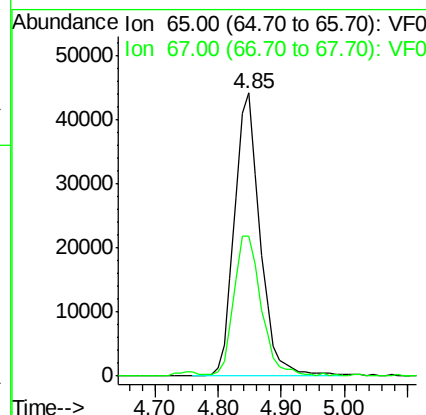
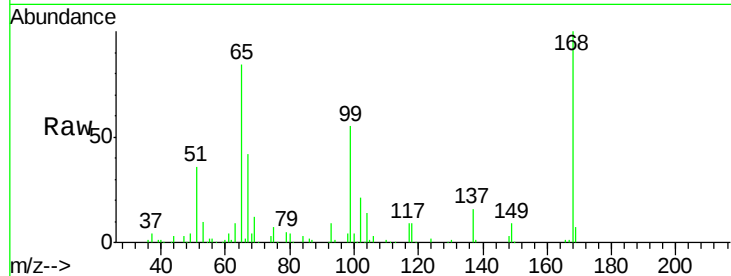




#33
 1,2-Dichloroethane-d4
 Concen: 56.883 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

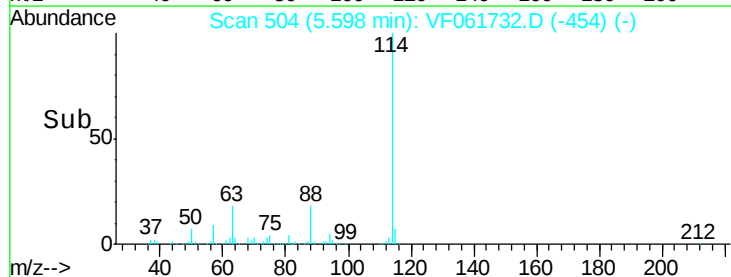
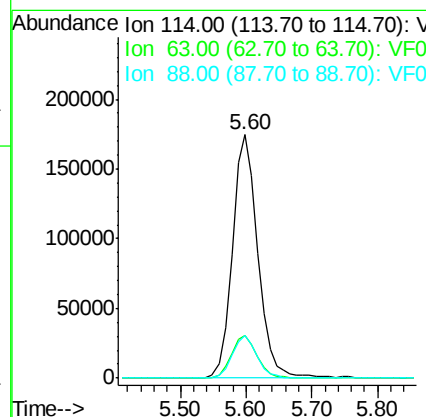
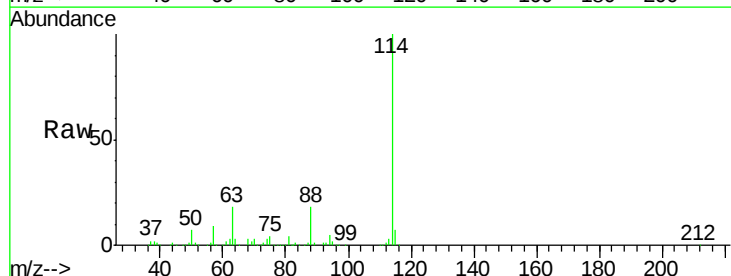
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

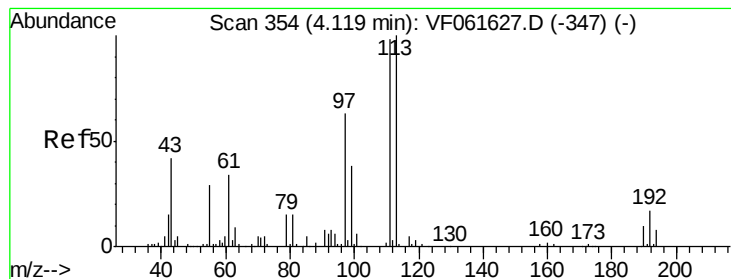
Tot Ion: 65 Resp: 124702
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 114 Resp: 471341
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 36.6
 88 17.5 0.0 34.4





#35

Dibromofluoromethane

Concen: 51.422 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

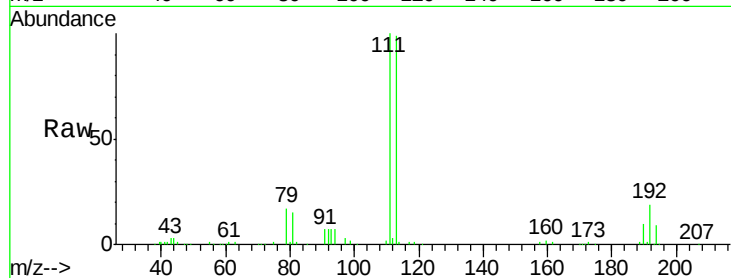
Tot Ion:113 Resp: 179987

Ion Ratio Lower Upper

113 100

111 101.4 78.8 118.2

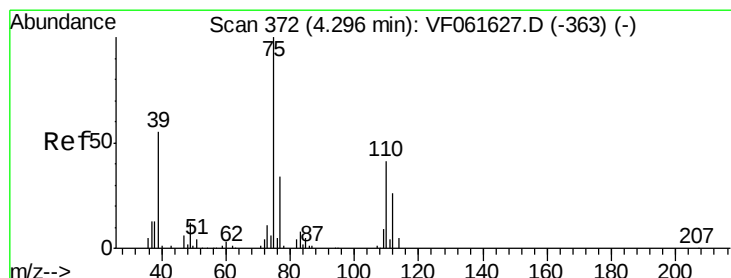
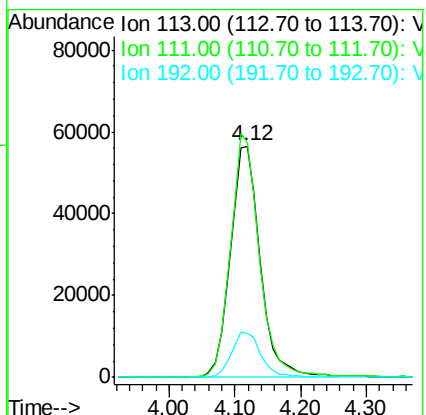
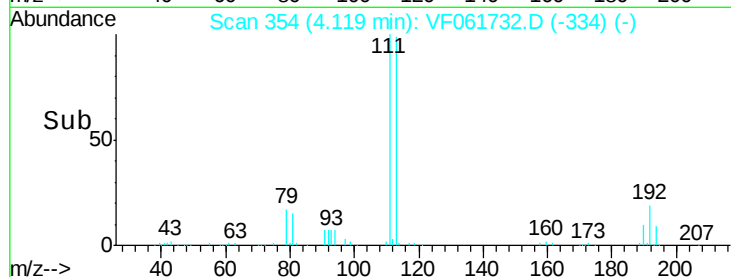
192 19.3 13.4 20.0



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: 2.752 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

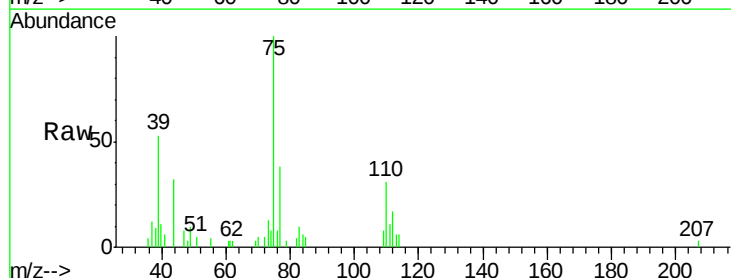
Tgt Ion: 75 Resp: 12849

Ion Ratio Lower Upper

75 100

110 31.4 20.5 61.6

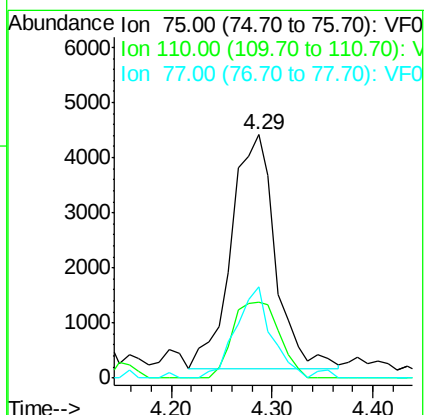
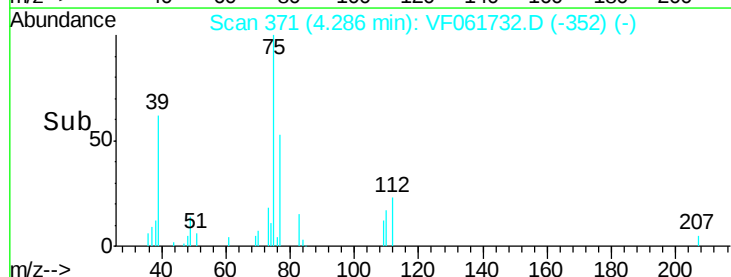
77 37.7 27.0 40.4

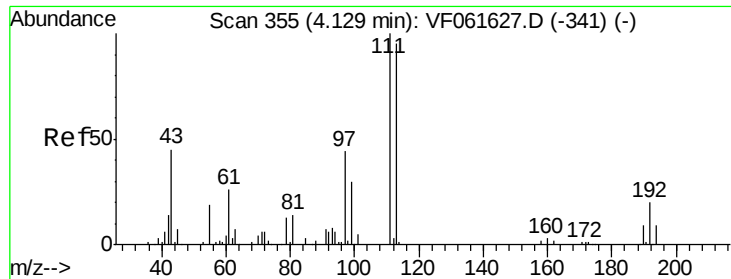


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

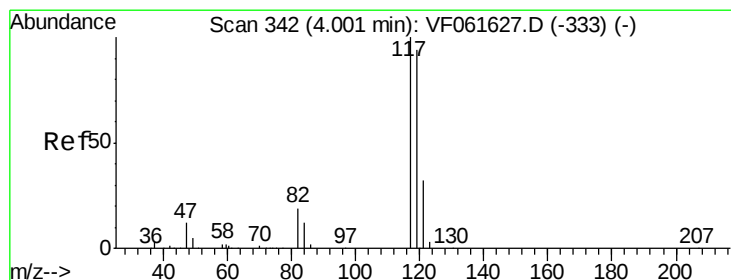
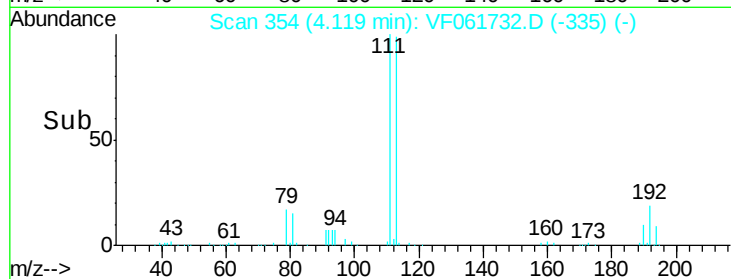
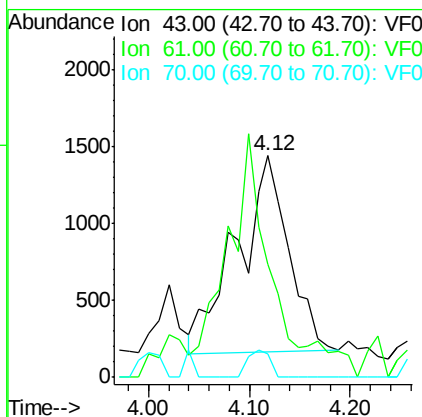
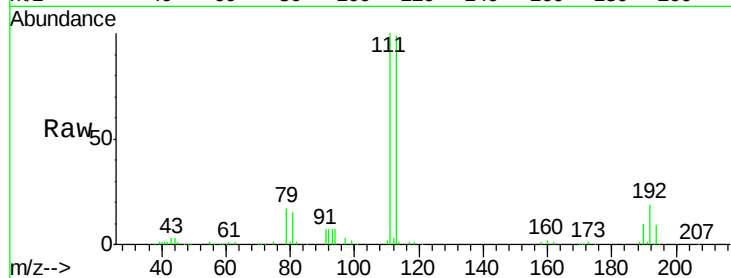




#37
Ethyl Acetate
Concen: 2.116 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

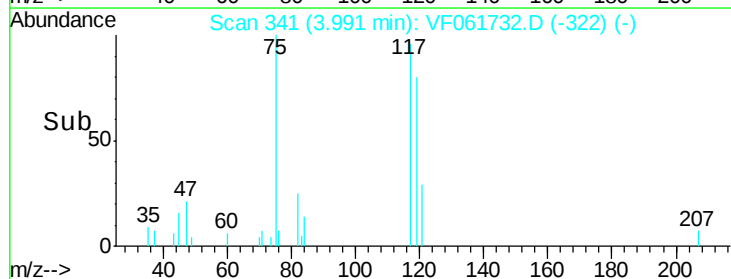
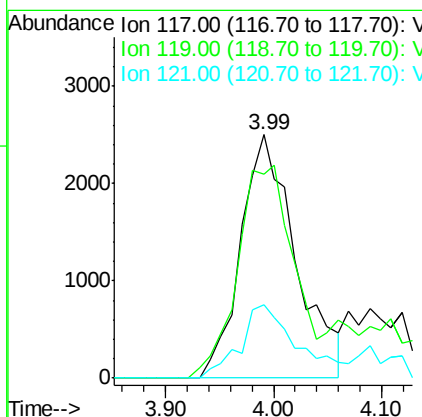
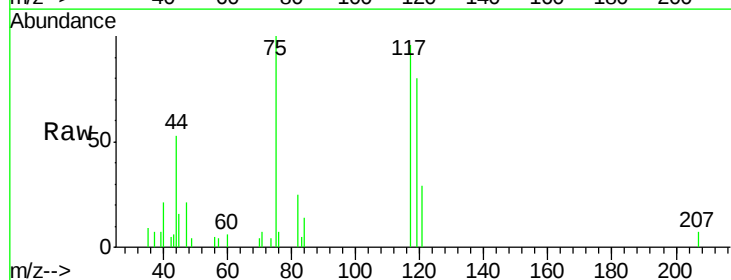
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

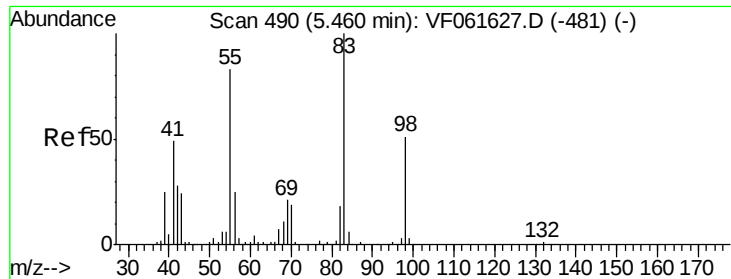
Tot Ion: 43 Resp: 4588
Ion Ratio Lower Upper
43 100
61 51.2 45.7 68.5
70 10.8 8.5 12.7



#38
Carbon Tetrachloride
Concen: 2.769 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 117 Resp: 8929
Ion Ratio Lower Upper
117 100
119 83.7 75.6 113.4
121 30.0 25.2 37.8

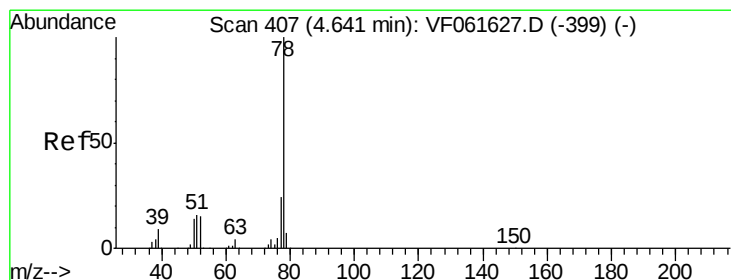
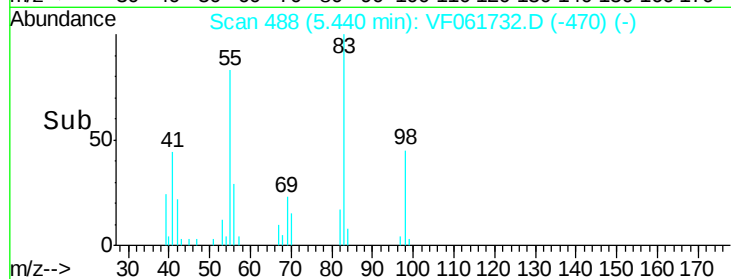
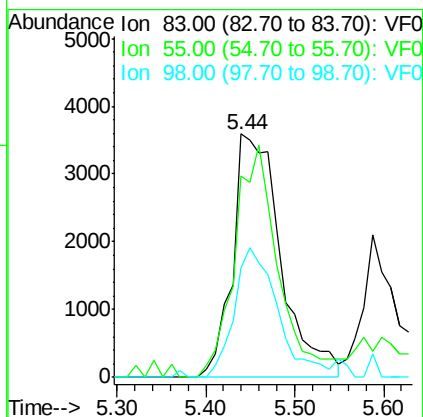
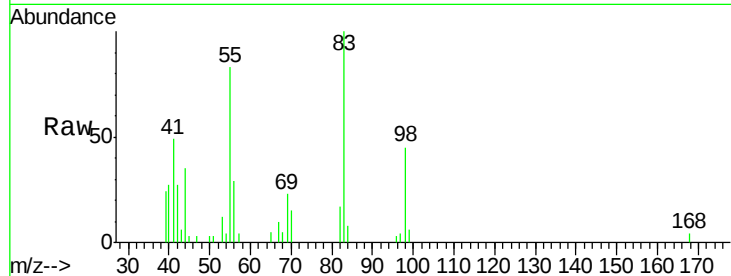




#39
Methvlcvclohexane
Concen: 2.439 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

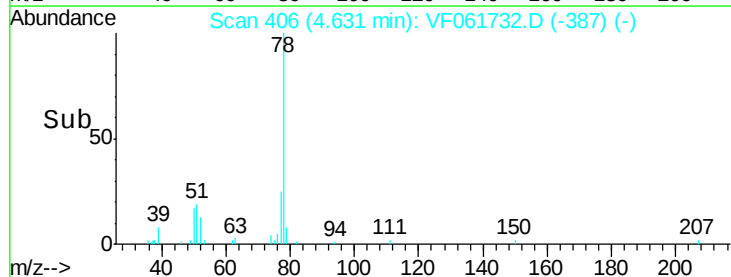
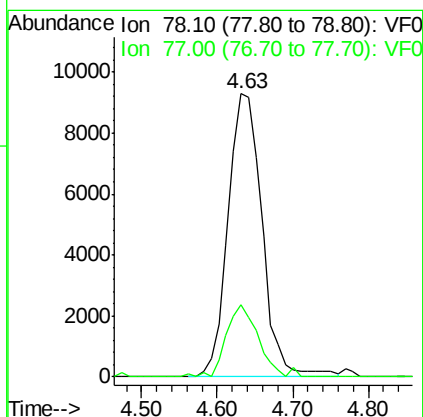
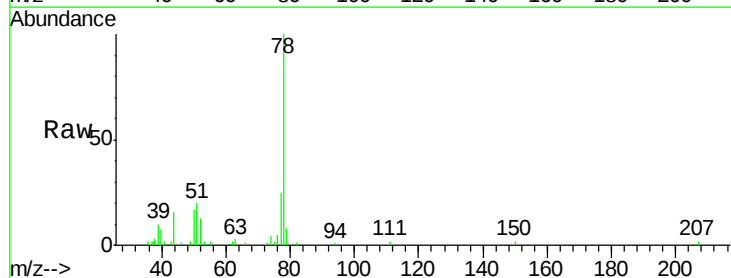
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

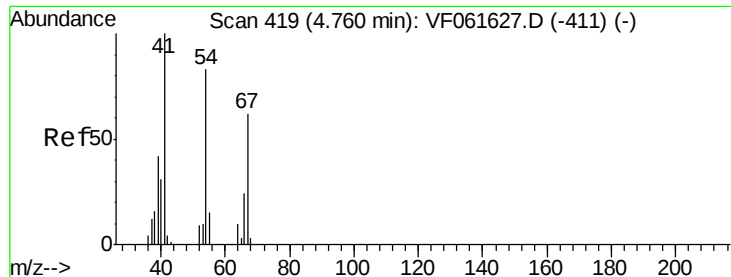
Tot Ion: 83 Resp: 13466
Ion Ratio Lower Upper
83 100
55 82.7 66.6 99.8
98 44.8 40.4 60.6



#40
Benzene
Concen: 2.367 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 78 Resp: 28907
Ion Ratio Lower Upper
78 100
77 25.3 19.0 28.6

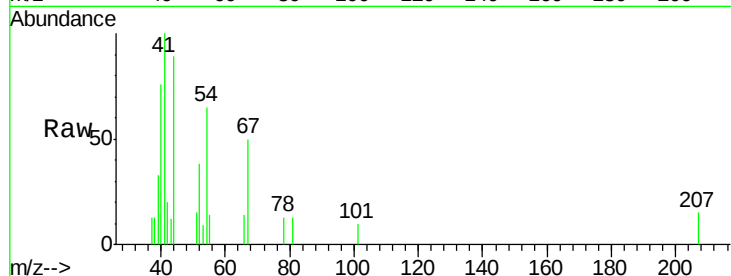




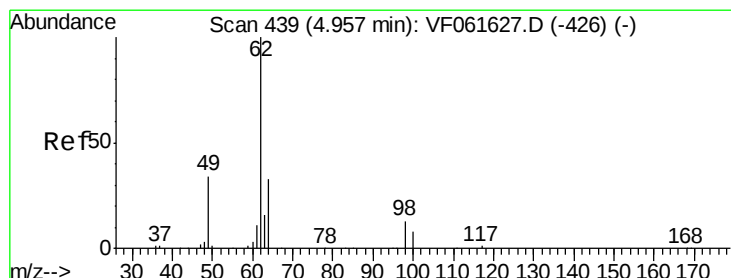
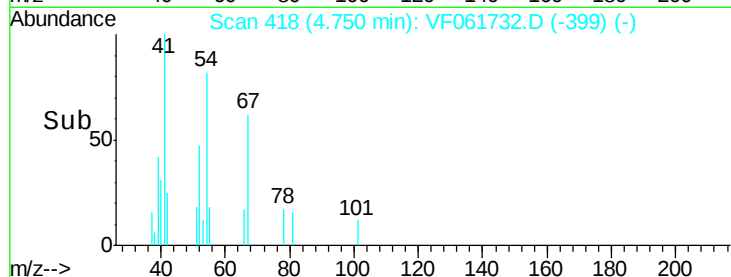
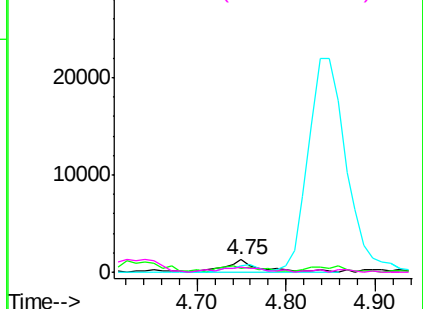
#41
Methacrylonitrile
Concen: 3.410 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 41 Resp: 3782
Ion Ratio Lower Upper
41 100
39 33.5 45.3 67.9#
67 49.6 49.3 73.9
52 37.7 32.6 49.0

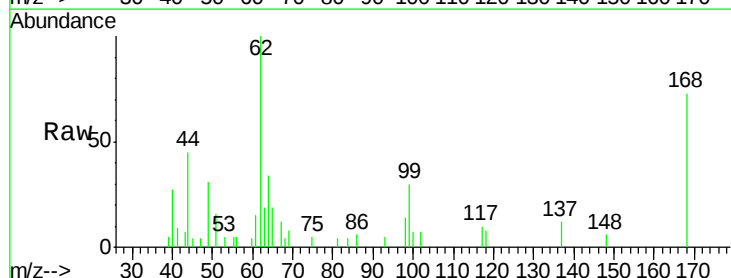


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

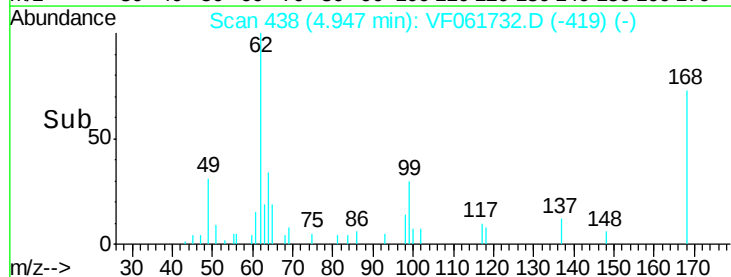
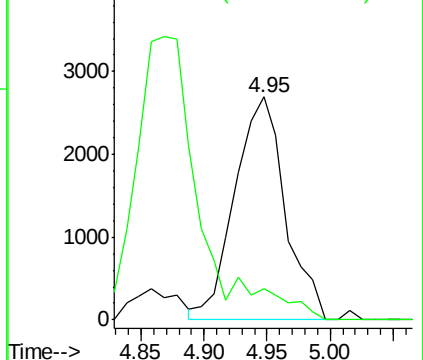


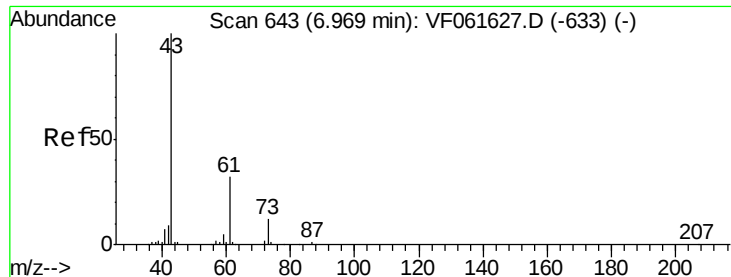
#42
1,2-Dichloroethane
Concen: 2.563 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 62 Resp: 7489
Ion Ratio Lower Upper
62 100
98 13.9 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



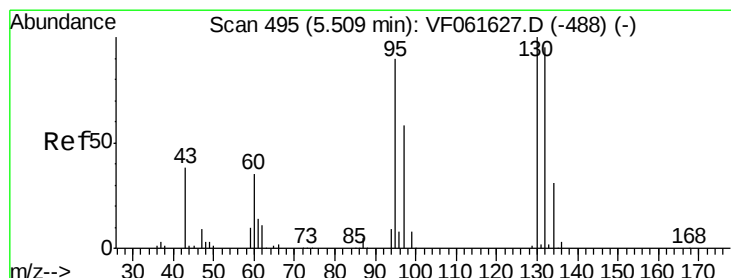
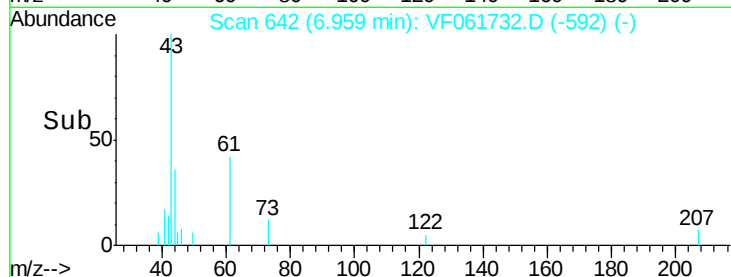
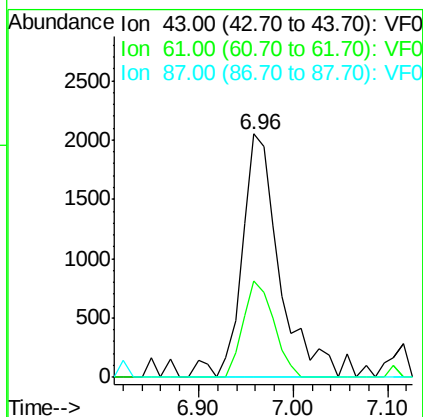
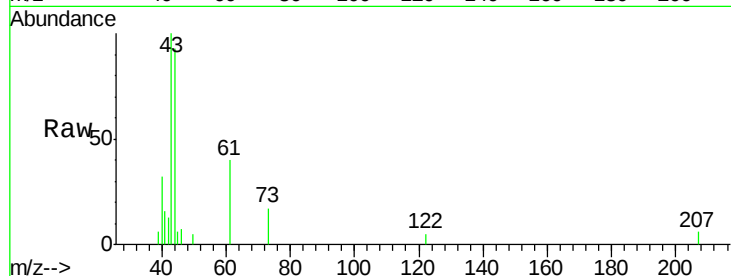


#43

Isopropyl Acetate
 Concen: 2.192 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

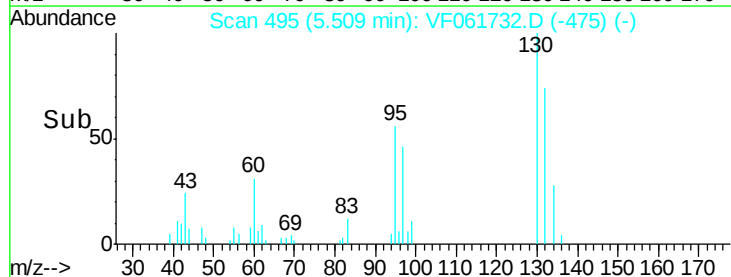
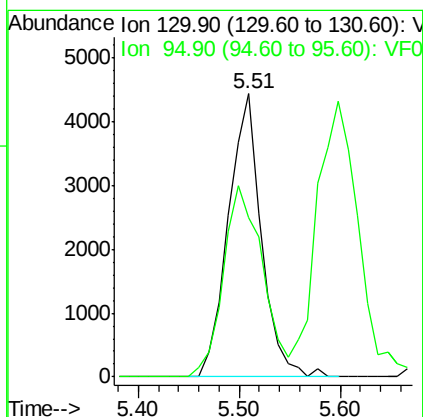
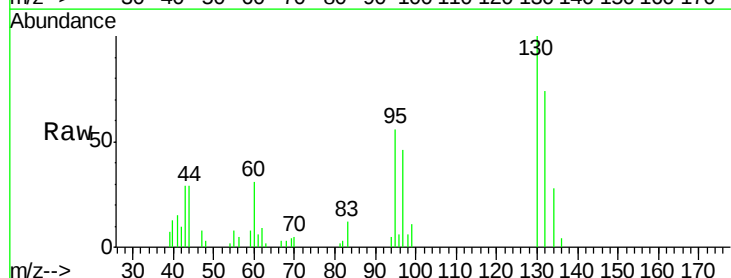
Tot Ion: 43 Resp: 5628
 Ion Ratio Lower Upper
 43 100
 61 39.6 25.8 38.6#
 87 0.0 0.4 0.6#

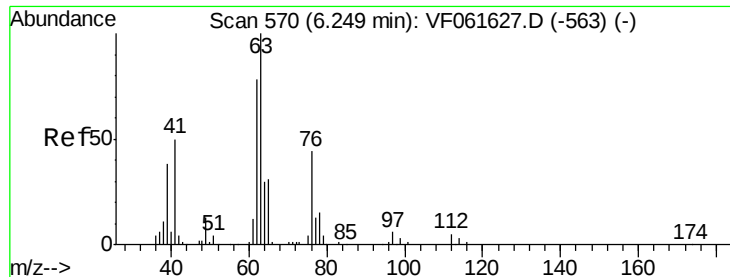


#44

Trichloroethene
 Concen: 2.554 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 130 Resp: 10087
 Ion Ratio Lower Upper
 130 100
 95 56.1 0.0 179.4





#45

1,2-Dichloropropane

Concen: 2.277 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.02 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

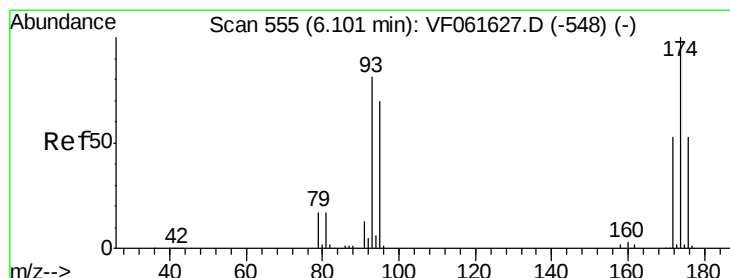
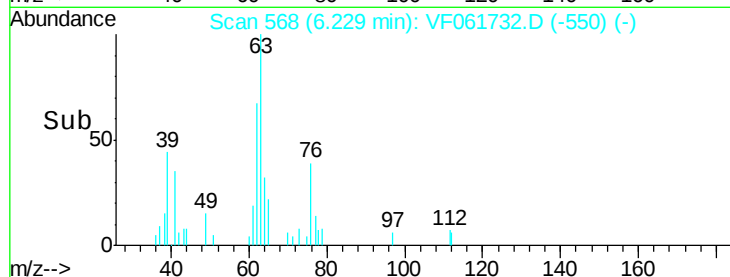
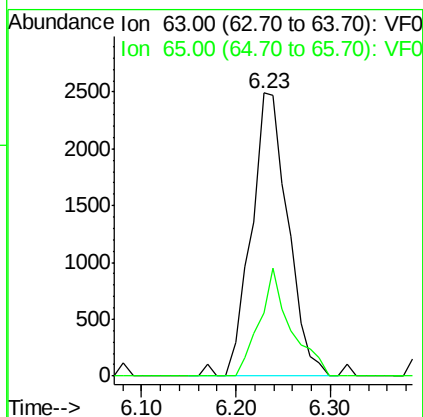
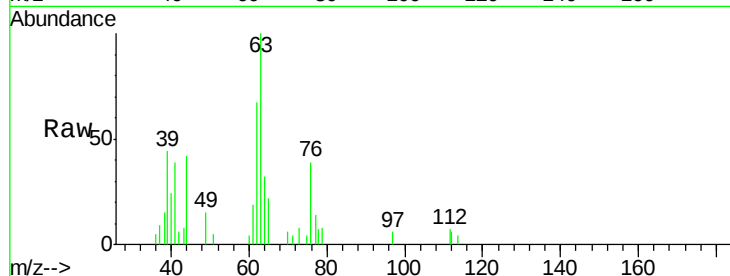
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 63 Resp: 6723

Ion Ratio Lower Upper

63 100

65 22.2 24.9 37.3#



#46

Dibromomethane

Concen: 2.290 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

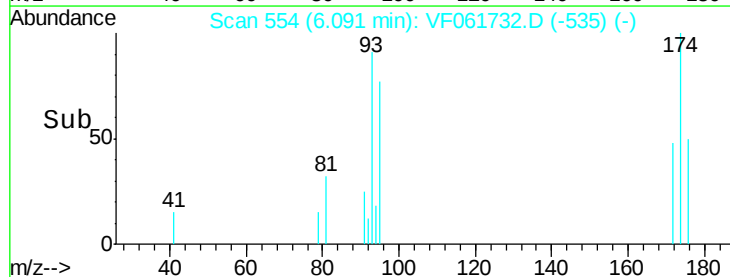
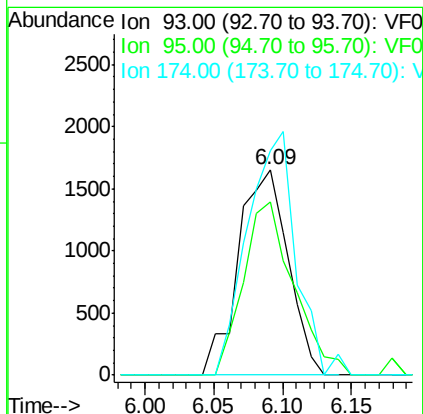
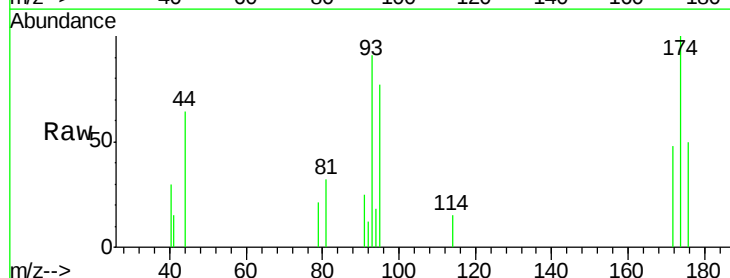
Tgt Ion: 93 Resp: 4163

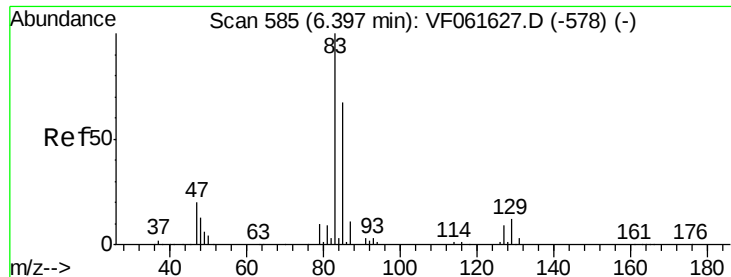
Ion Ratio Lower Upper

93 100

95 84.3 69.0 103.6

174 109.3 99.3 148.9





#47

Bromodichloromethane

Concen: 2.415 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

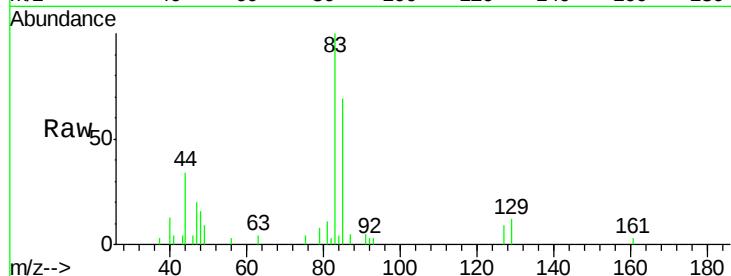
Tot Ion: 83 Resp: 9611

Ion Ratio Lower Upper

83 100

85 69.0 53.4 80.2

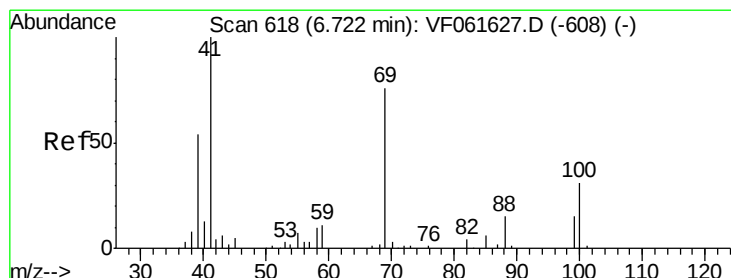
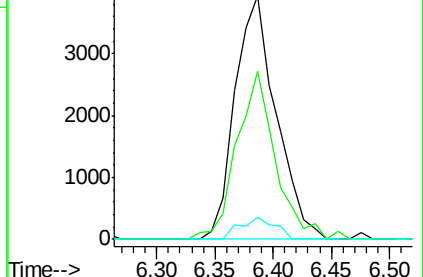
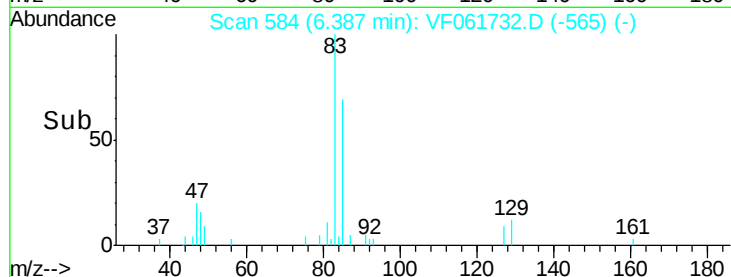
127 9.0 7.5 11.3



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: 2.534 ug/l

RT: 6.72 min Scan# 618

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

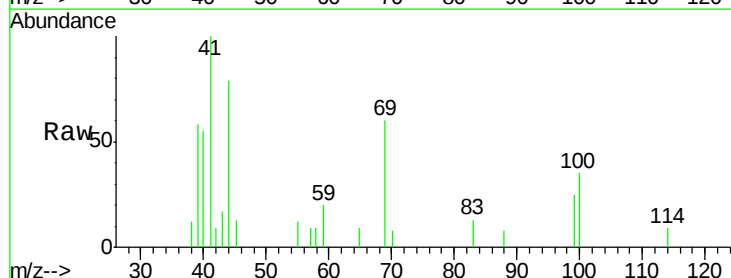
Tgt Ion: 41 Resp: 3914

Ion Ratio Lower Upper

41 100

69 60.2 60.4 90.6#

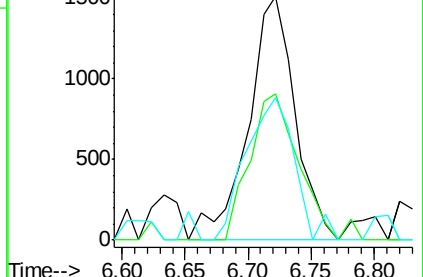
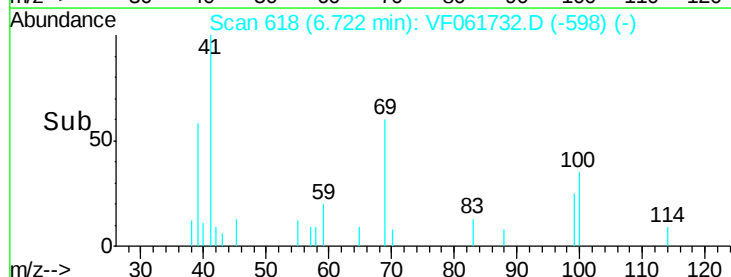
39 58.4 43.7 65.5

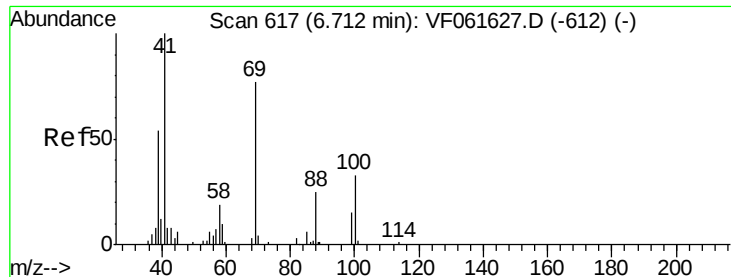


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

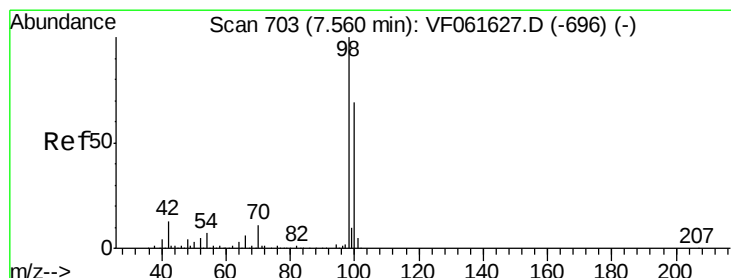
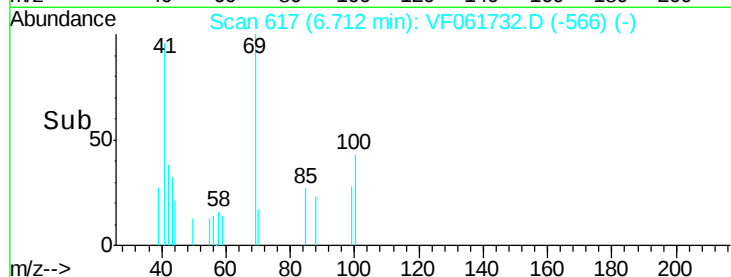
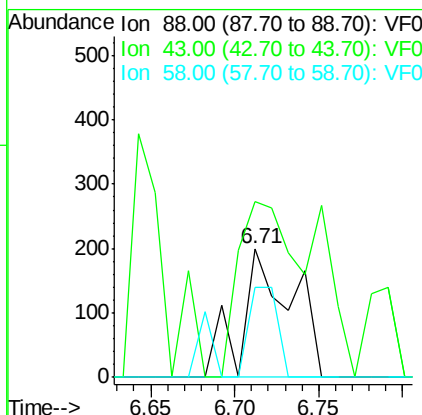
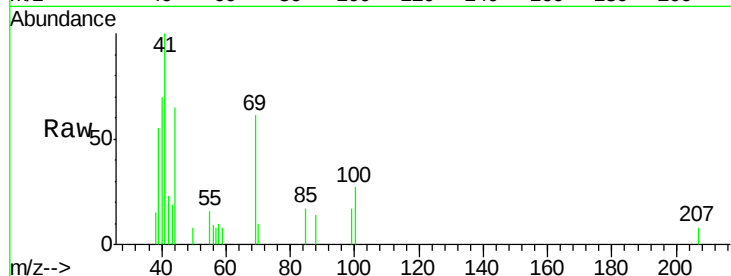




#49
1,4-Dioxane
Concen: 28.852 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

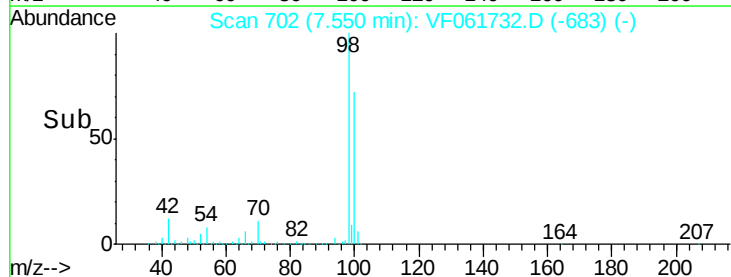
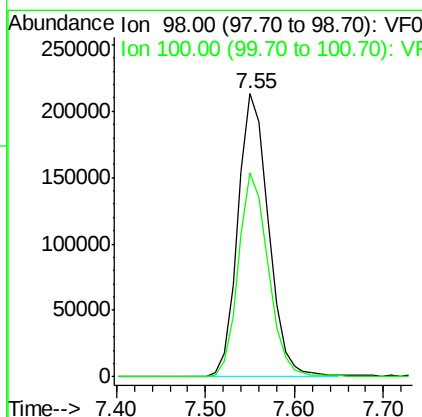
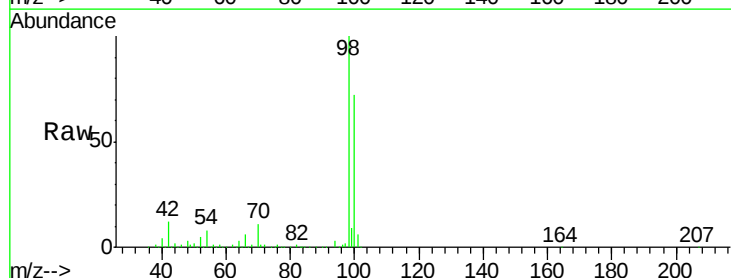
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

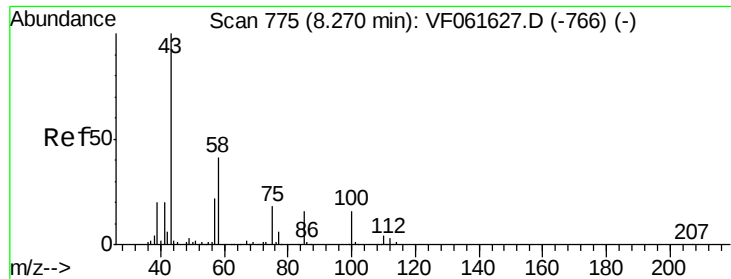
Tot Ion: 88 Resp: 419
Ion Ratio Lower Upper
88 100
43 136.0 32.3 48.5#
58 69.5 59.4 89.2



#50
Toluene-d8
Concen: 50.691 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 98 Resp: 510059
Ion Ratio Lower Upper
98 100
100 72.1 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 11.755 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

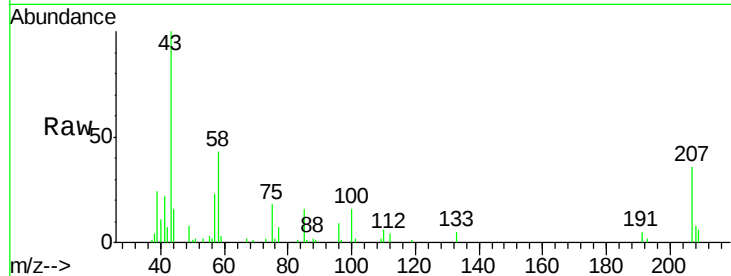
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 21561

Ion Ratio Lower Upper

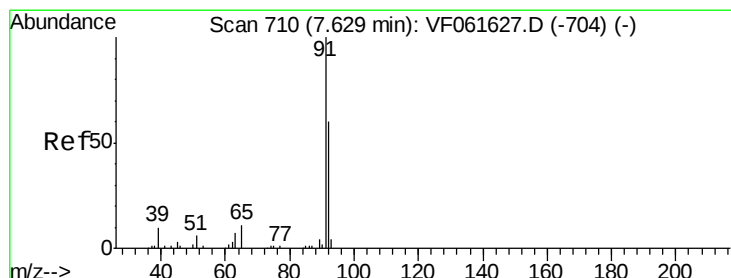
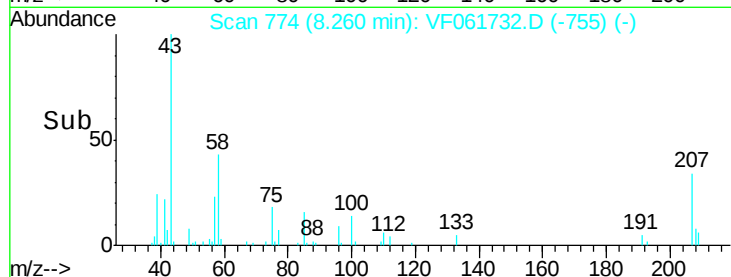
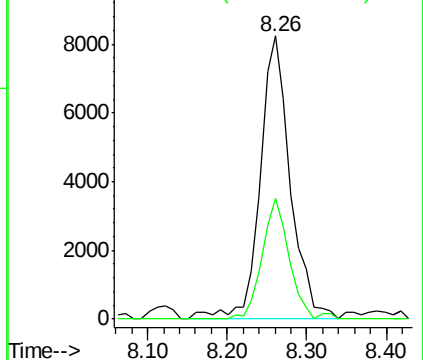
43 100

58 42.8 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.873 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061732.D

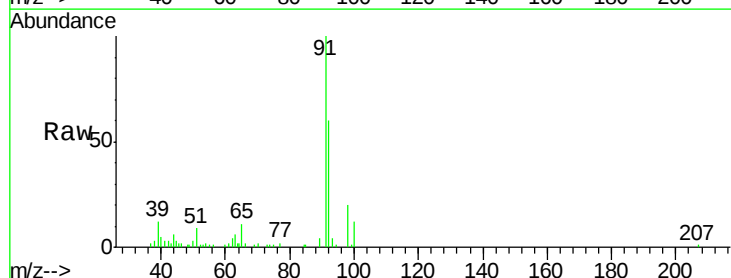
Acq: 25 Feb 2019 16:07

Tgt Ion: 92 Resp: 21279

Ion Ratio Lower Upper

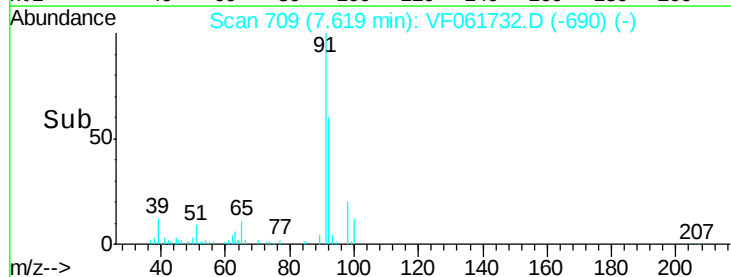
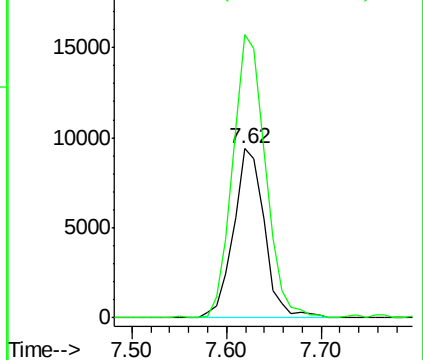
92 100

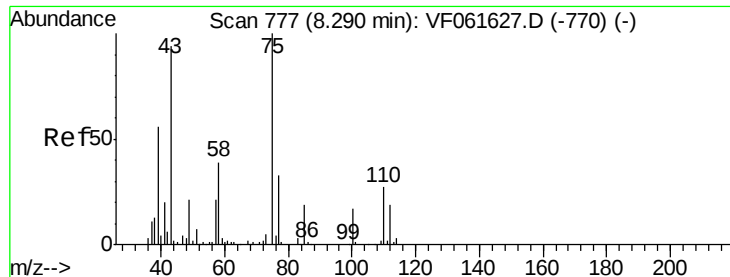
91 167.2 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 2.350 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

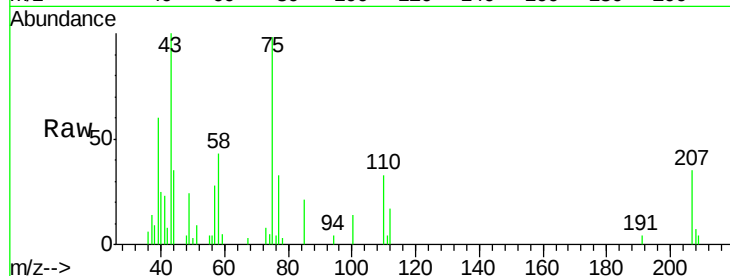
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 75 Resp: 7785

Ion Ratio Lower Upper

75 100

77 33.1 26.2 39.2

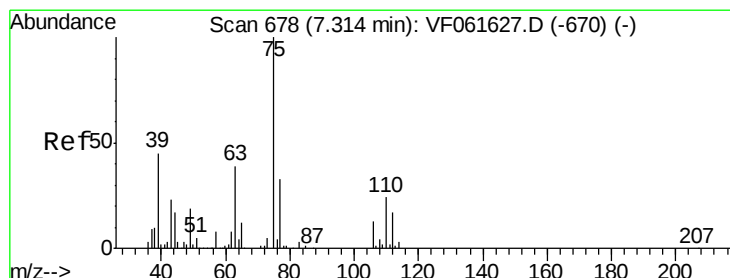
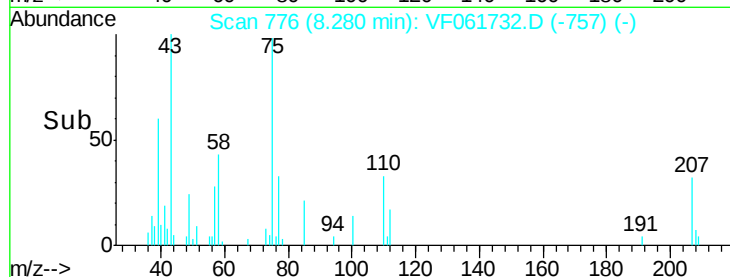


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.28

Time-->



#54

cis-1,3-Dichloropropene

Concen: 2.311 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

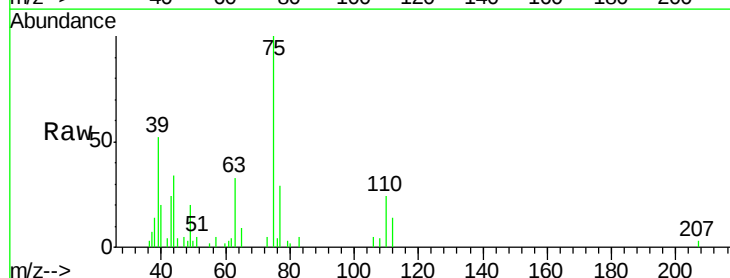
Tgt Ion: 75 Resp: 10199

Ion Ratio Lower Upper

75 100

77 28.8 26.4 39.6

39 51.7 36.0 54.0



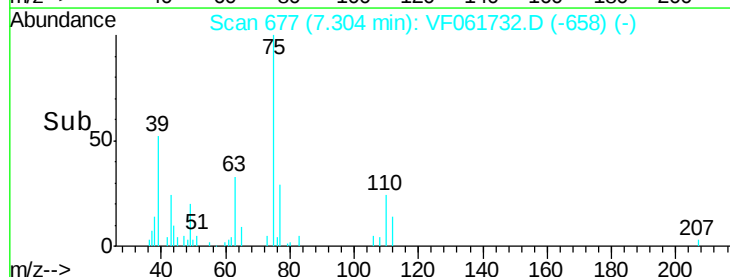
Abundance Ion 75.00 (74.70 to 75.70): VF0

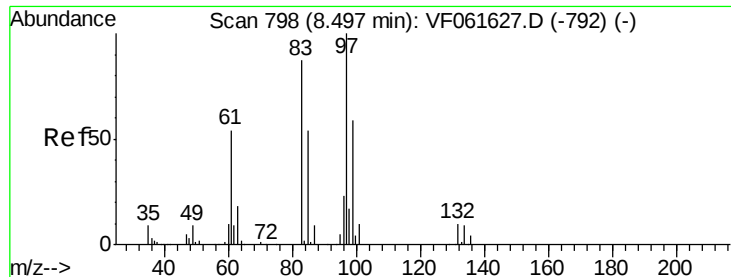
Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

7.30

Time-->





#55

1,1,2-Trichloroethane

Concen: 2.283 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 97 Resp: 4968

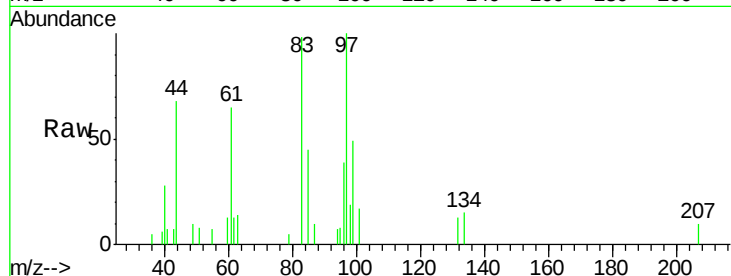
Ion Ratio Lower Upper

97 100

83 97.9 69.2 103.8

85 44.8 43.0 64.4

99 49.2 47.2 70.8

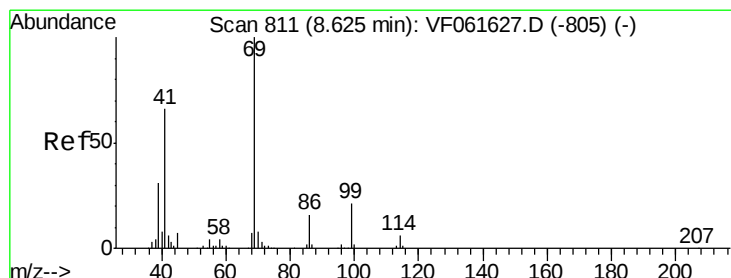
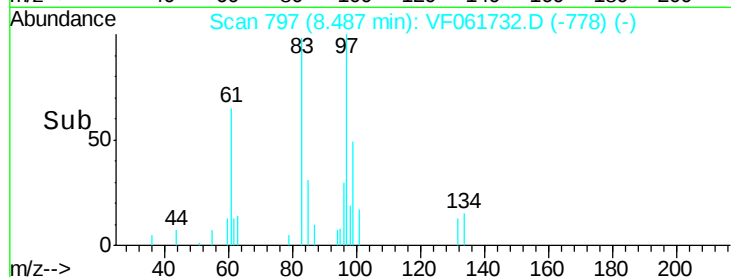
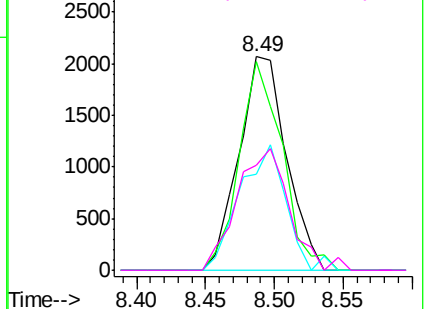


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 2.564 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

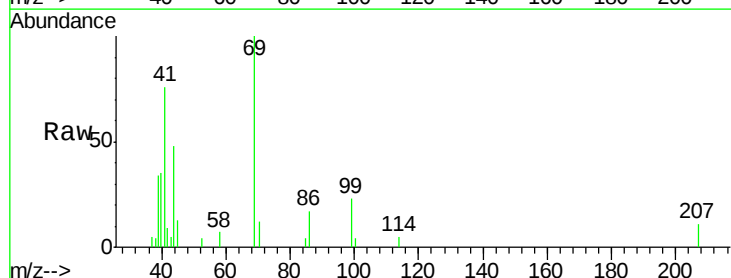
Tgt Ion: 69 Resp: 6213

Ion Ratio Lower Upper

69 100

41 76.1 52.9 79.3

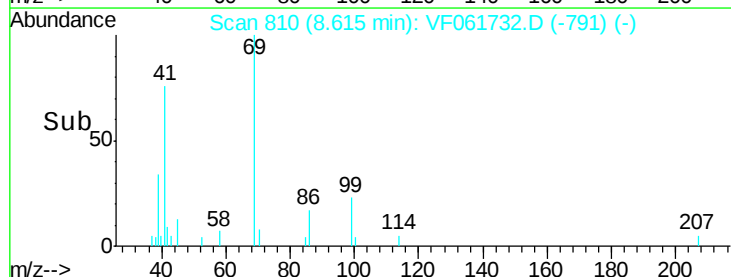
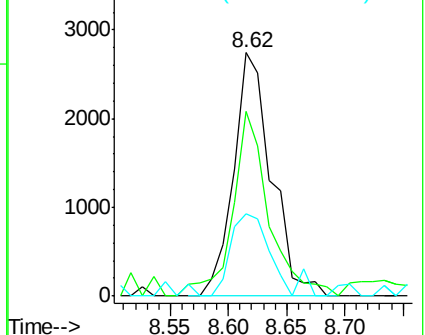
39 33.9 24.5 36.7

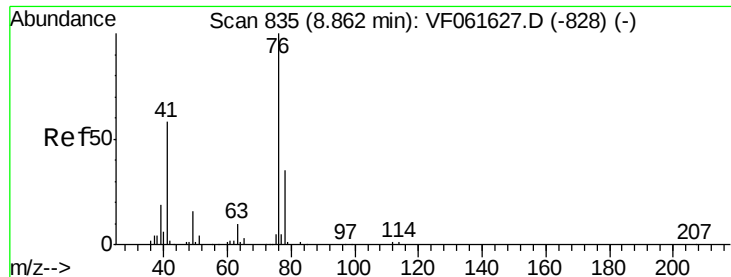


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 2.368 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

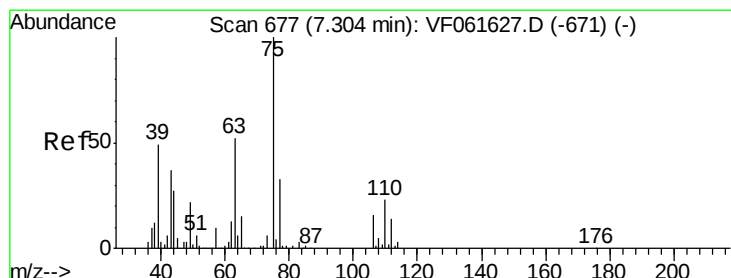
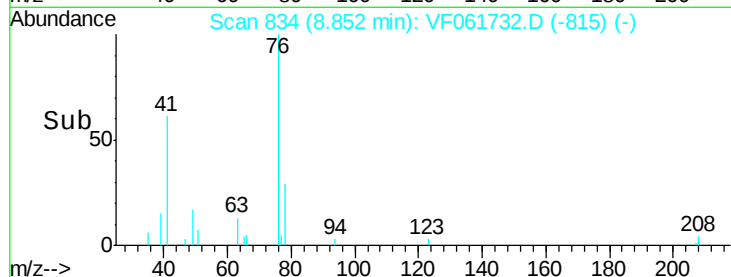
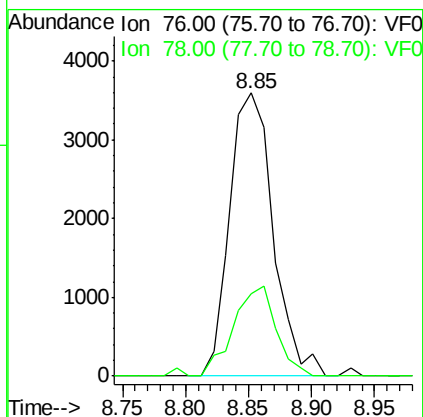
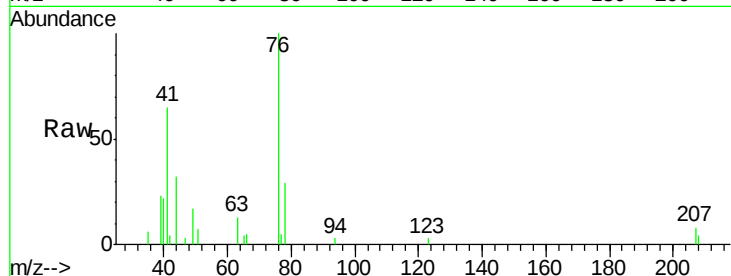
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 76 Resp: 8602

Ion Ratio Lower Upper

76 100

78 29.3 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 10.154 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061732.D

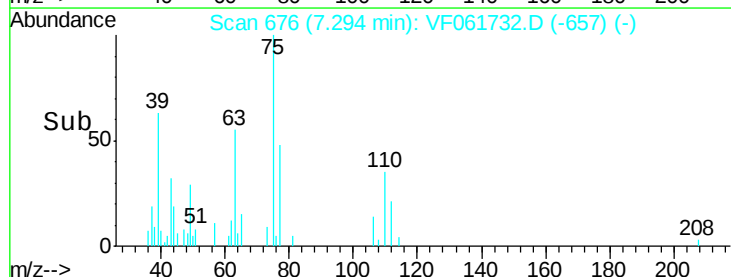
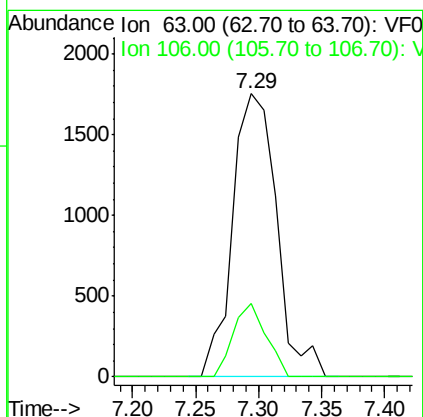
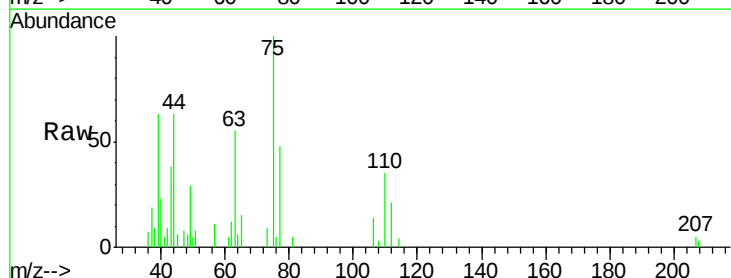
Acq: 25 Feb 2019 16:07

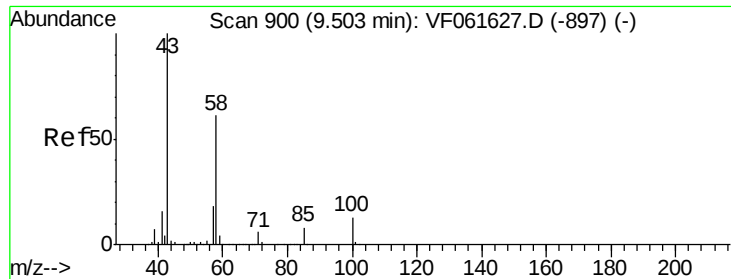
Tgt Ion: 63 Resp: 4245

Ion Ratio Lower Upper

63 100

106 26.0 24.6 36.8

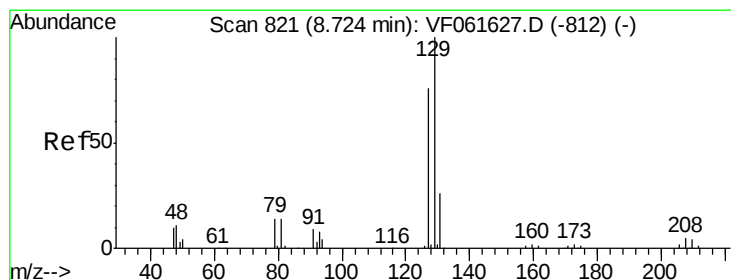
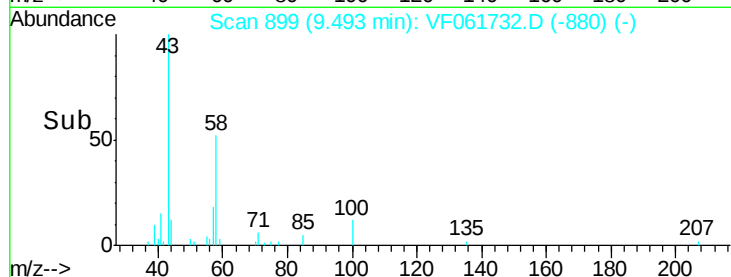
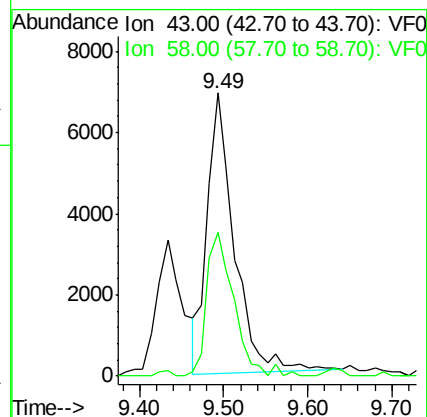
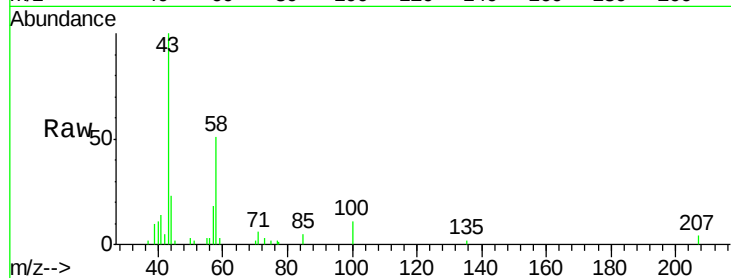




#59
2-Hexanone
Concen: 11.935 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

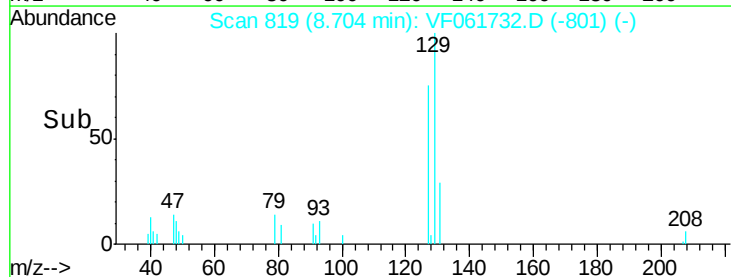
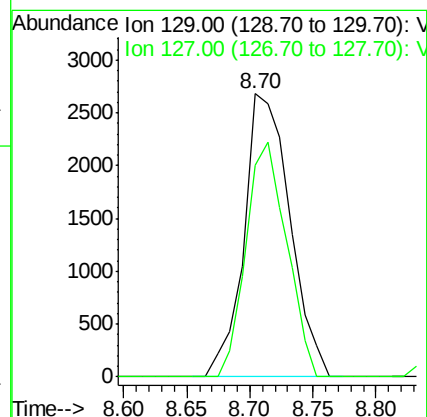
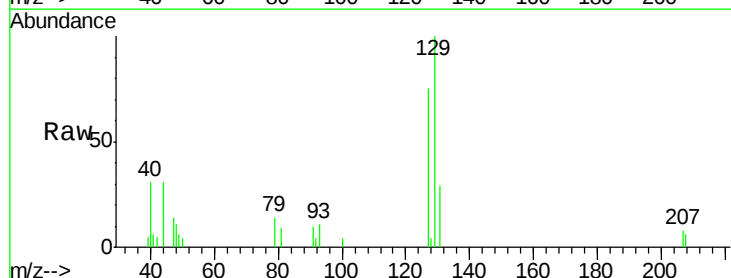
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

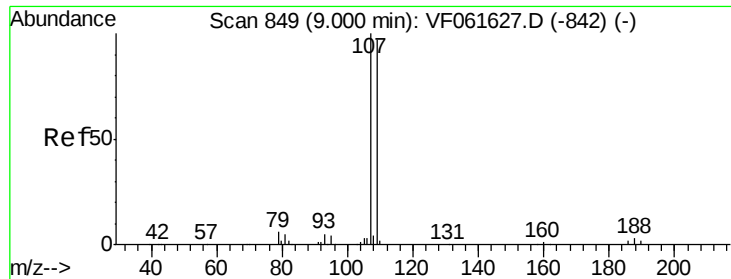
Tot Ion: 43 Resp: 15346
Ion Ratio Lower Upper
43 100
58 51.0 28.5 85.5



#60
Dibromochloromethane
Concen: 2.240 ug/l
RT: 8.70 min Scan# 819
Delta R.T. -0.02 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 129 Resp: 6784
Ion Ratio Lower Upper
129 100
127 74.7 37.8 113.4





#61

1,2-Dibromoethane

Concen: 2.490 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

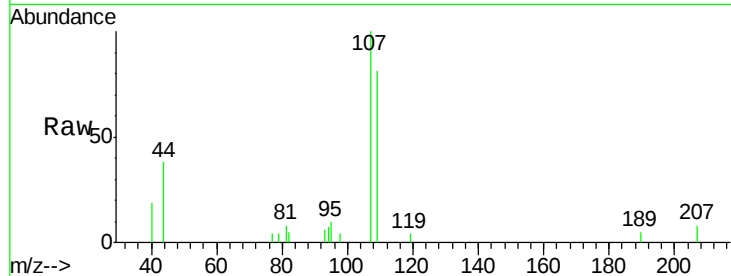
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:107 Resp: 5877

Ion Ratio Lower Upper

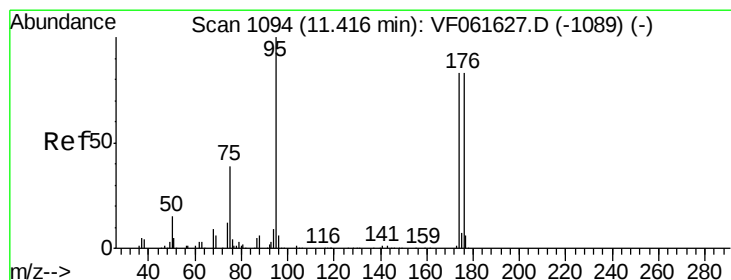
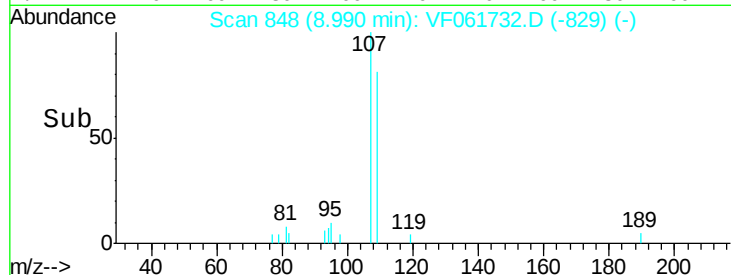
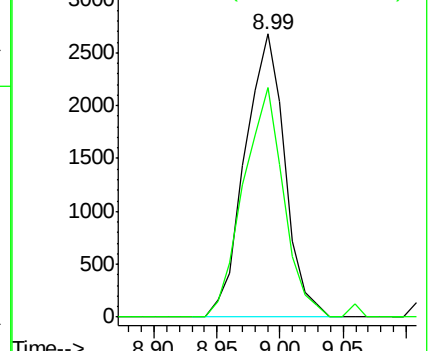
107 100

109 81.0 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 51.590 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

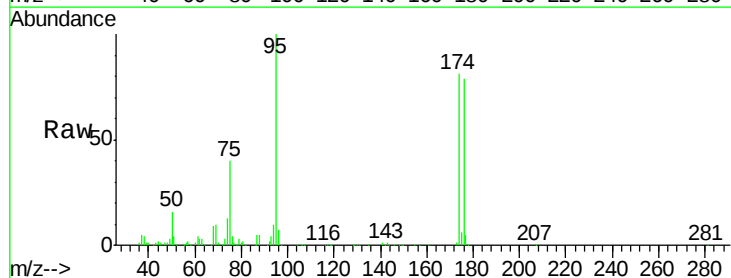
Tgt Ion: 95 Resp: 210039

Ion Ratio Lower Upper

95 100

174 80.5 0.0 165.8

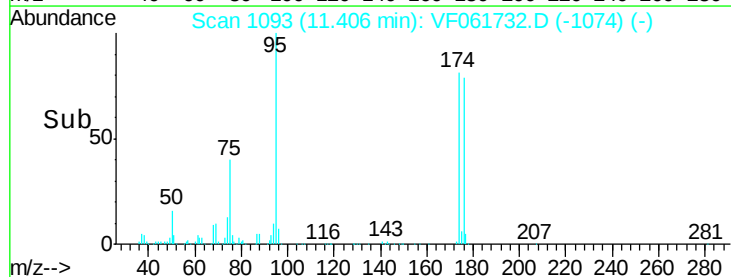
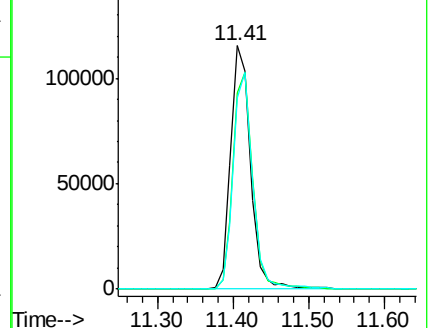
176 78.7 0.0 167.0

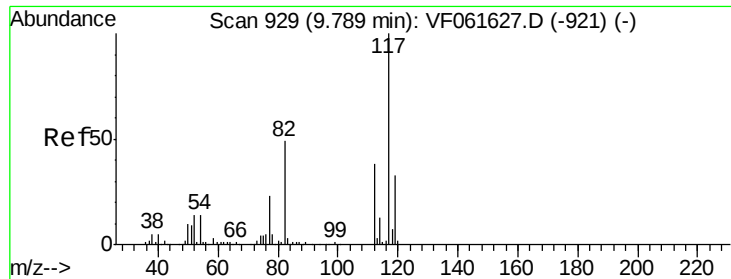


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

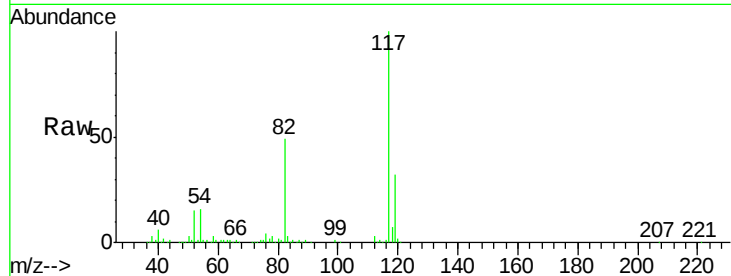




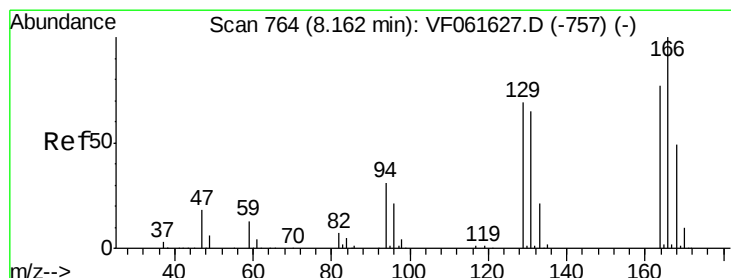
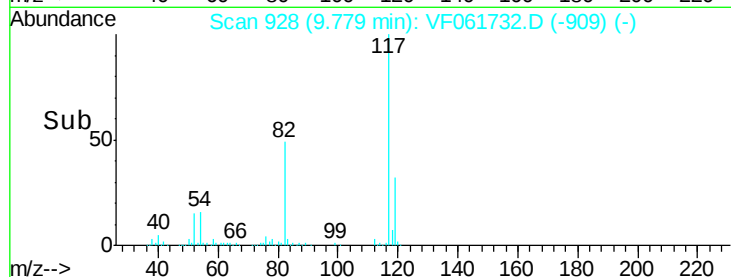
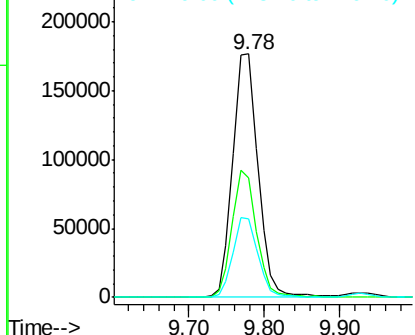
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:117 Resp: 413178
Ion Ratio Lower Upper
117 100
82 48.9 39.3 58.9
119 32.5 26.6 40.0

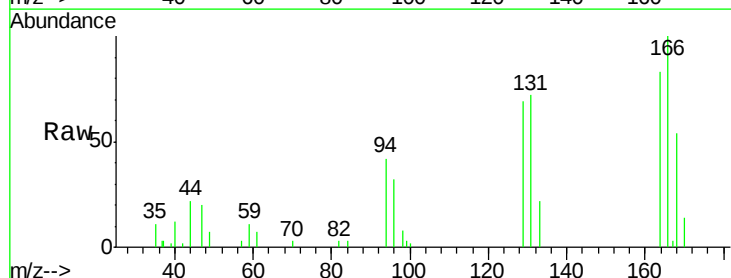


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

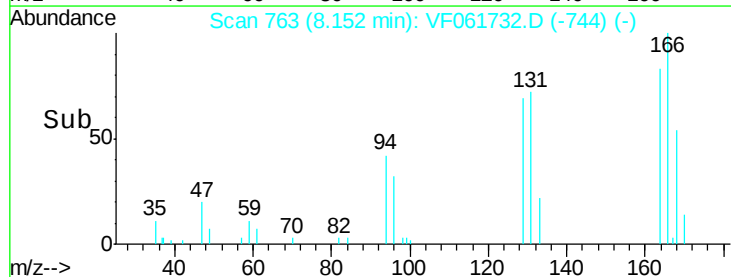
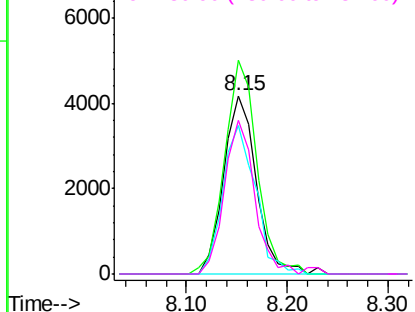


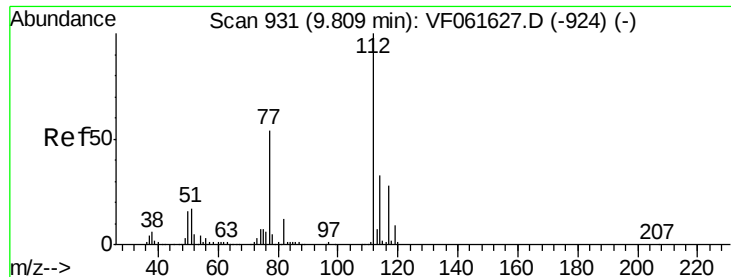
#64
Tetrachloroethene
Concen: 2.799 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion:164 Resp: 9454
Ion Ratio Lower Upper
164 100
166 120.0 103.9 155.9
129 83.1 71.3 106.9
131 86.2 67.1 100.7



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

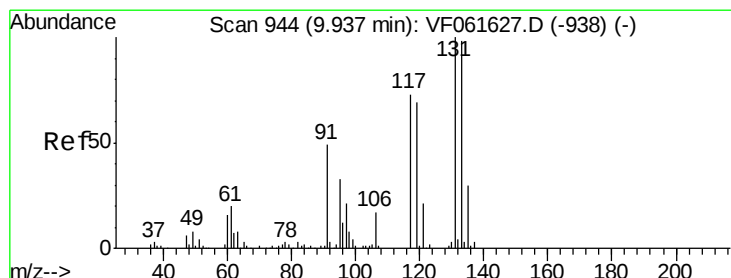
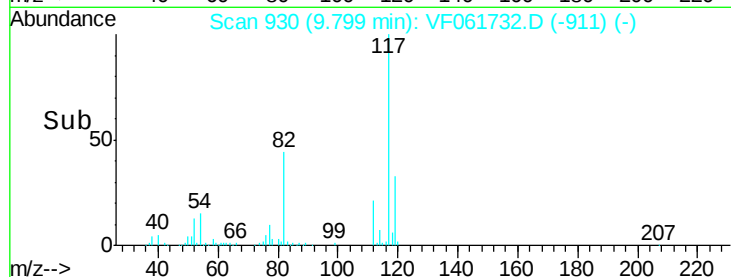
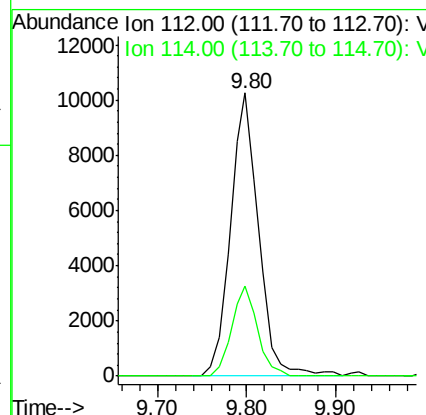
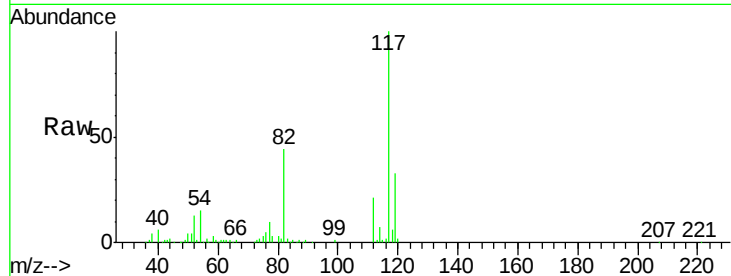




#65
Chlorobenzene
Concen: 2.710 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

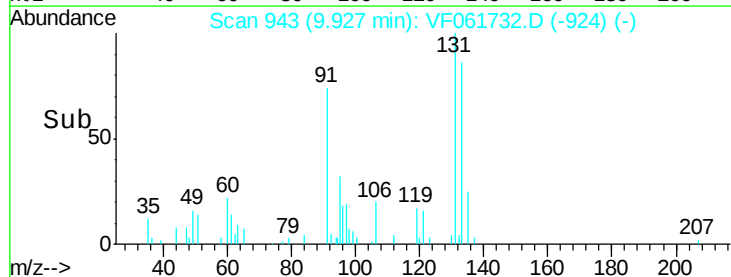
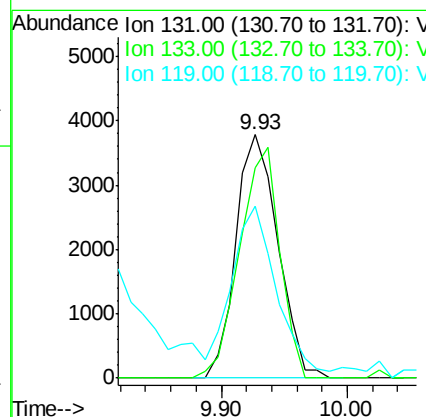
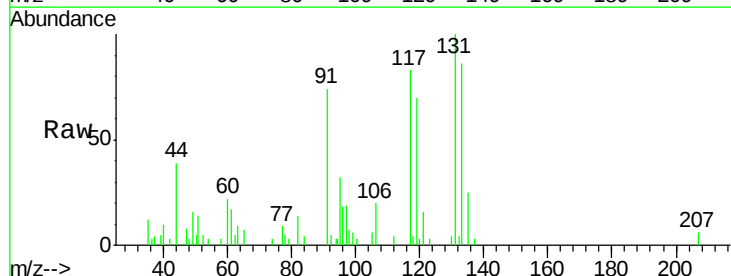
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

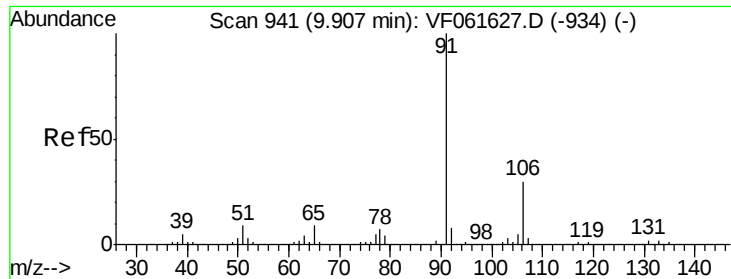
Tot Ion:112 Resp: 22722
Ion Ratio Lower Upper
112 100
114 32.0 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 2.651 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion:131 Resp: 8709
Ion Ratio Lower Upper
131 100
133 86.4 48.9 146.6
119 70.4 34.8 104.3





#67

Ethyl Benzene

Concen: 3.002 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

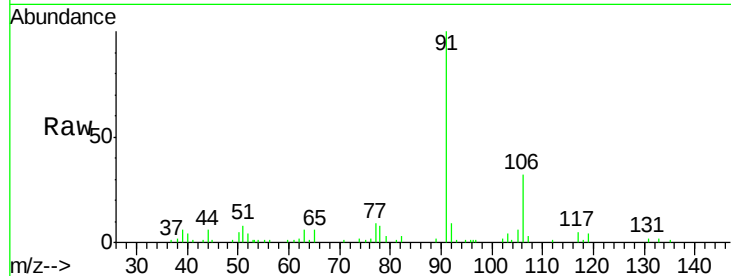
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 91 Resp: 41860

Ion Ratio Lower Upper

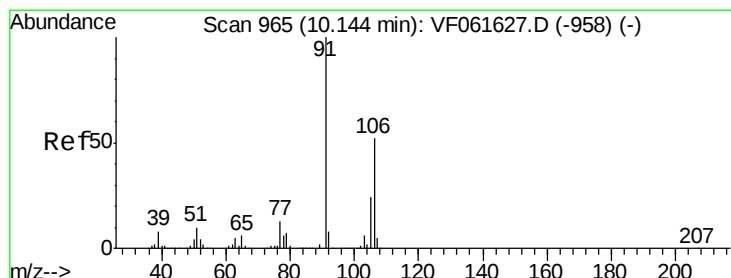
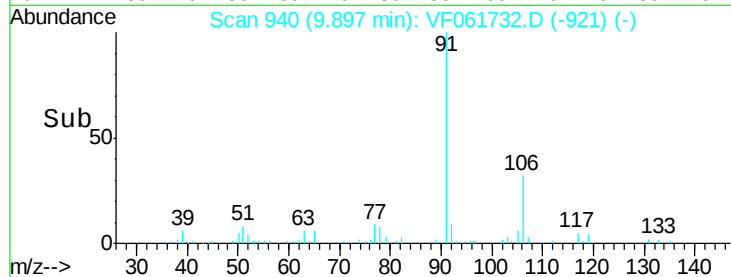
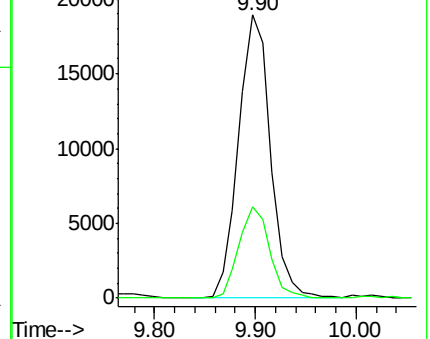
91 100

106 32.2 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 6.038 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061732.D

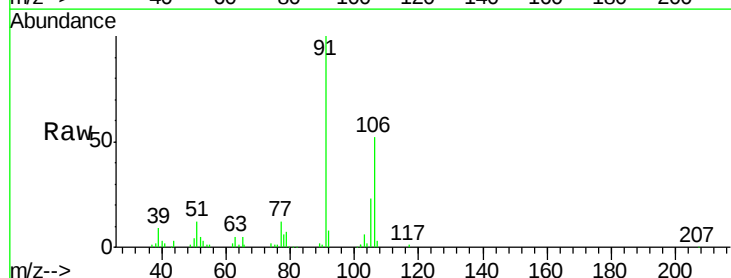
Acq: 25 Feb 2019 16:07

Tgt Ion: 106 Resp: 32218

Ion Ratio Lower Upper

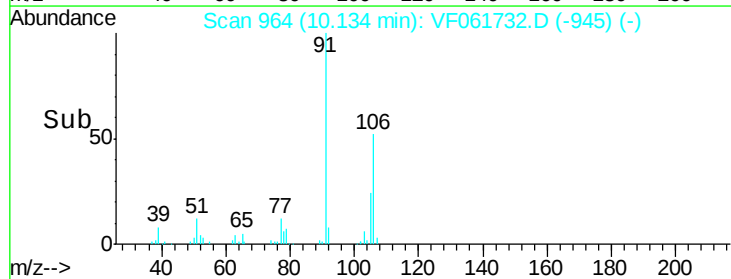
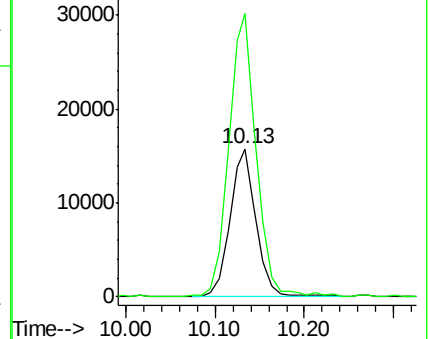
106 100

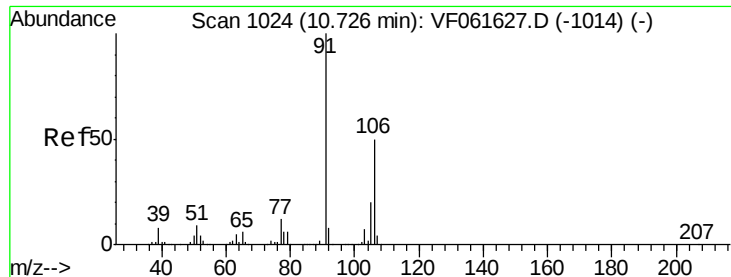
91 191.4 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

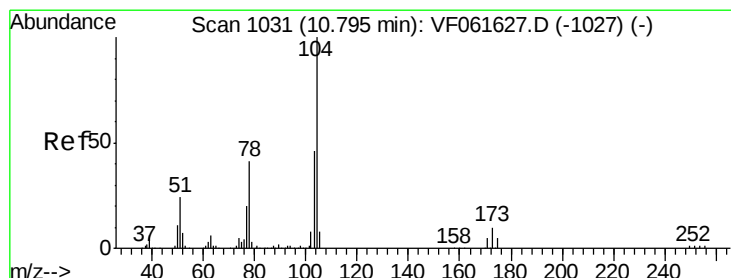
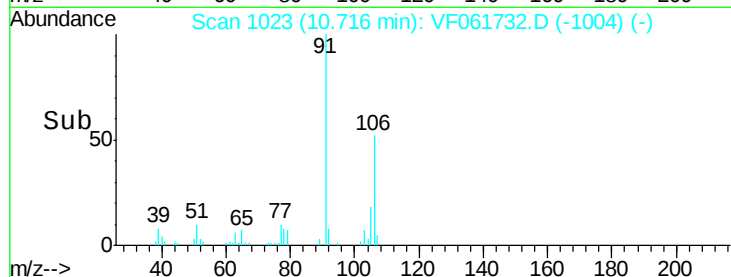
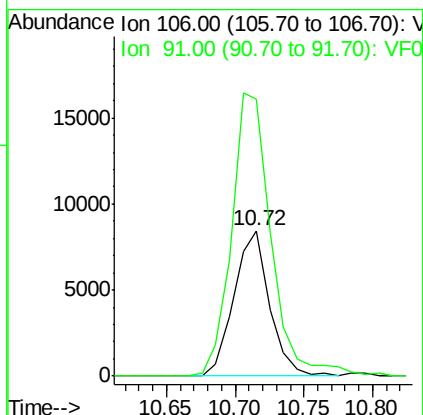
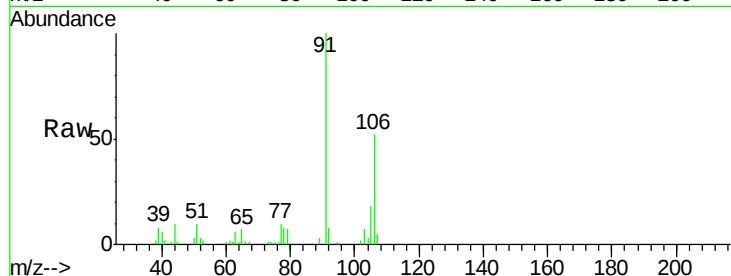




#69
o-Xylene
Concen: 2.676 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

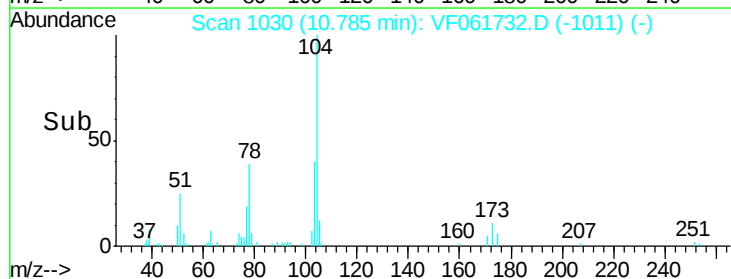
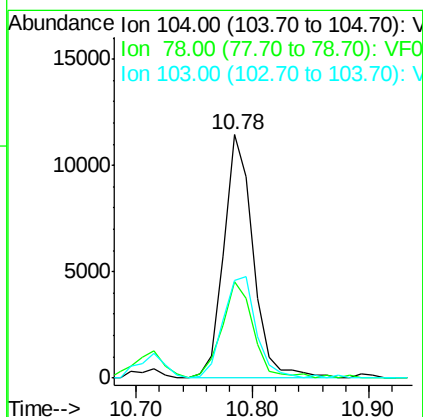
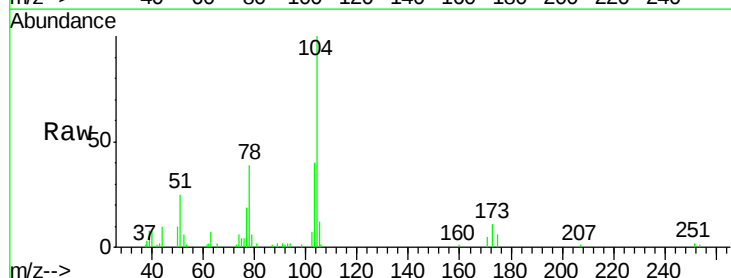
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

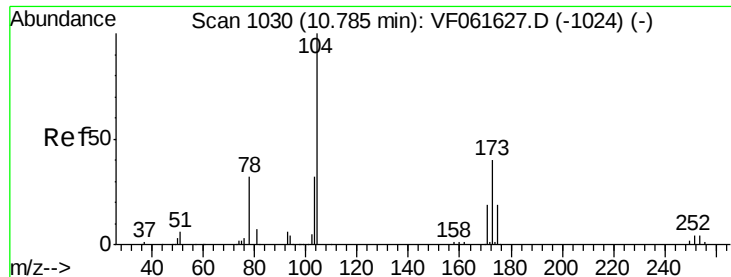
Tot Ion:106 Resp: 15237
Ion Ratio Lower Upper
106 100
91 191.2 100.1 300.1



#70
Styrene
Concen: 2.489 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion:104 Resp: 20052
Ion Ratio Lower Upper
104 100
78 39.5 33.2 49.8
103 40.3 37.2 55.8





#71

Bromoform

Concen: 2.208 ug/l

RT: 10.77 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

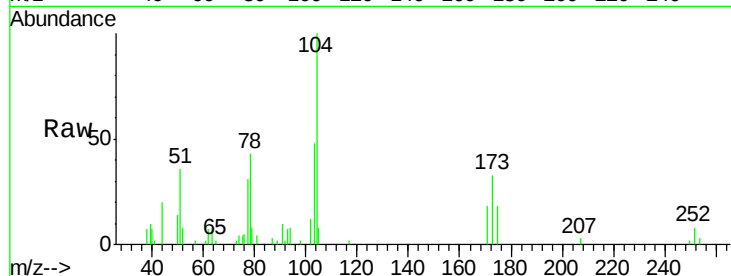
Tot Ion:173 Resp: 3939

Ion Ratio Lower Upper

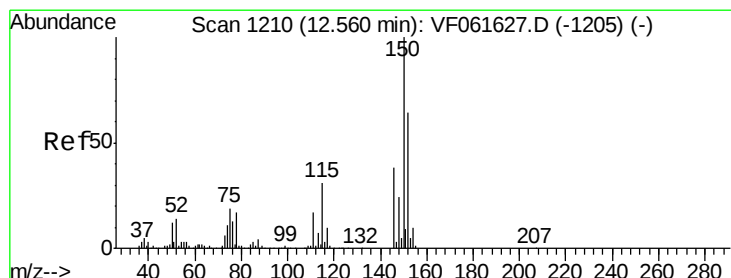
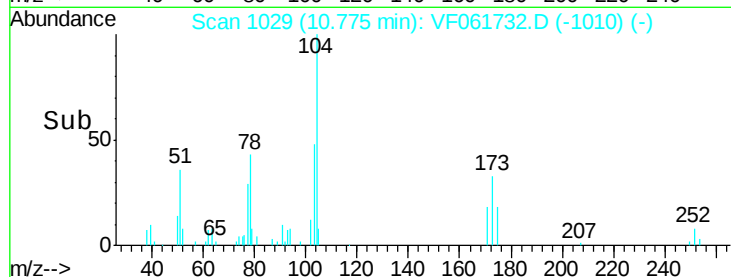
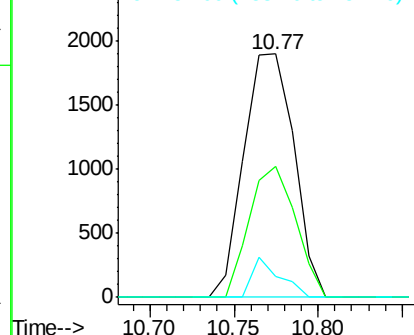
173 100

175 53.9 24.0 72.0

254 8.5 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: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

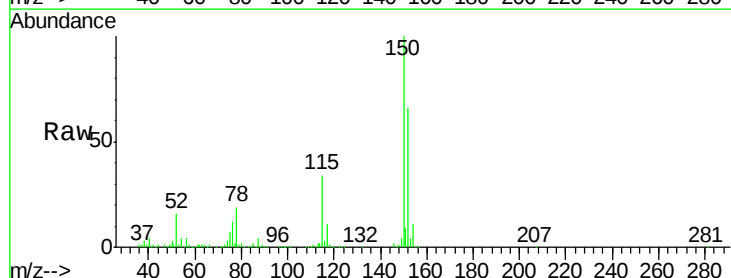
Tgt Ion:152 Resp: 239591

Ion Ratio Lower Upper

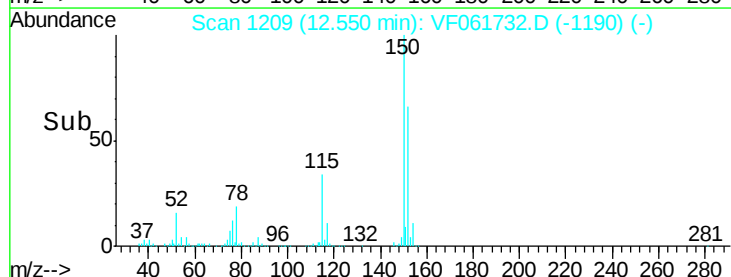
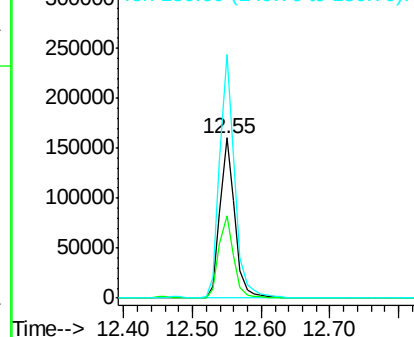
152 100

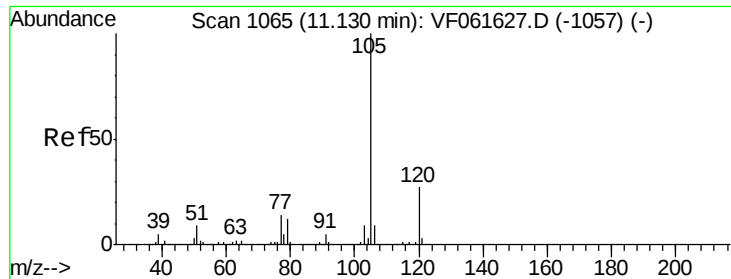
115 51.2 24.3 72.8

150 151.9 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: 2.420 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

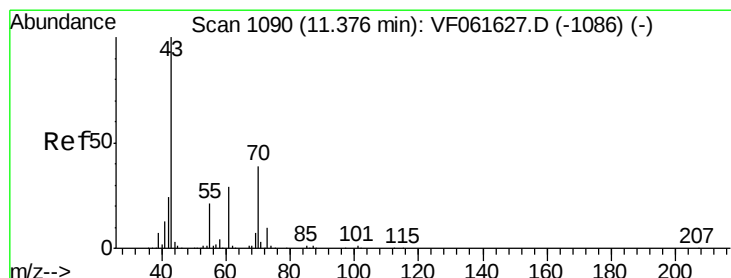
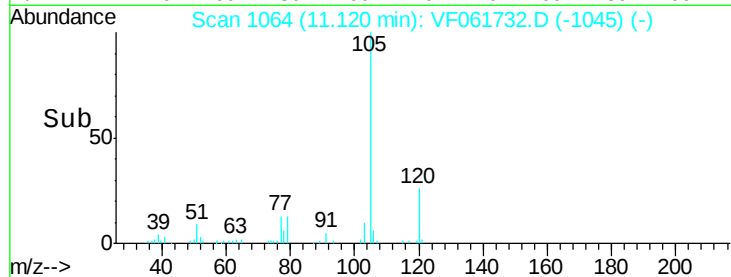
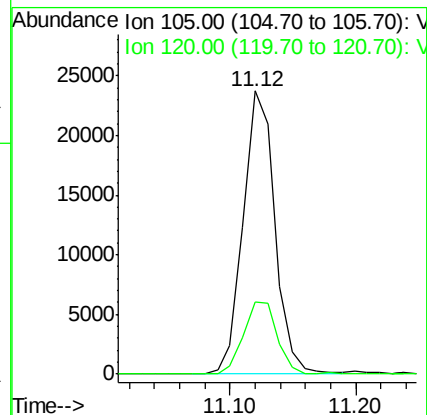
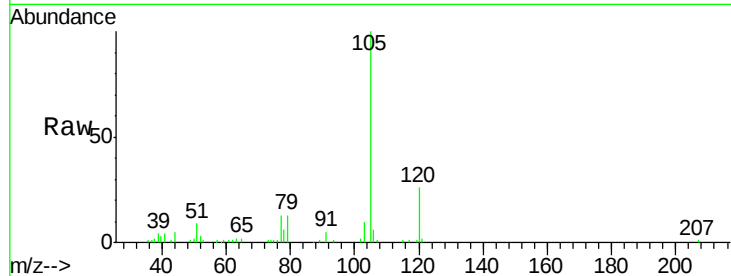
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:105 Resp: 41282

Ion Ratio Lower Upper

105 100

120 25.5 13.4 40.1



#74

N-ethyl acetate

Concen: 2.335 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Tgt Ion: 43 Resp: 9562

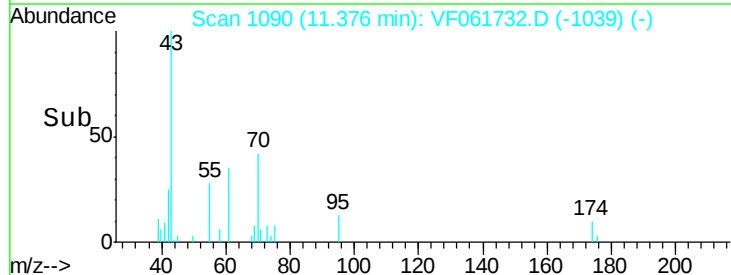
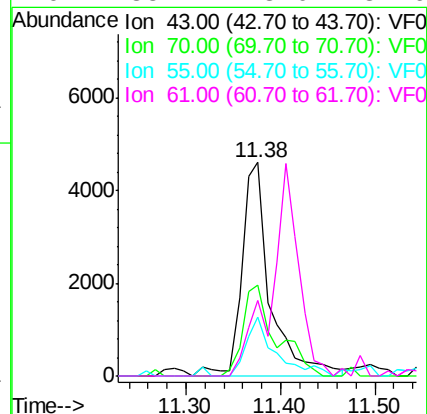
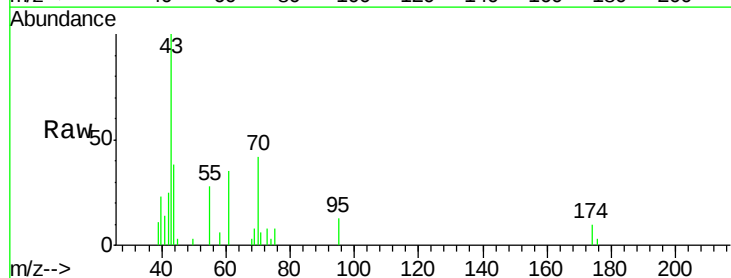
Ion Ratio Lower Upper

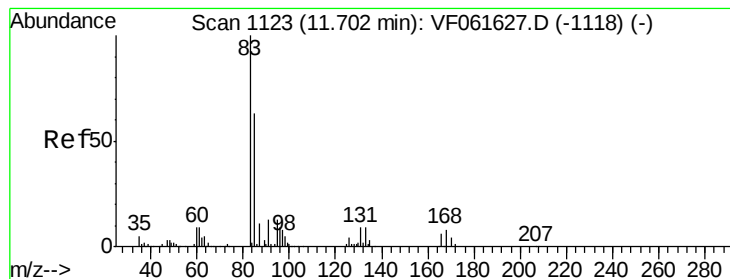
43 100

70 42.3 31.5 47.3

55 27.9 16.7 25.1#

61 35.4 23.0 34.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 2.478 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

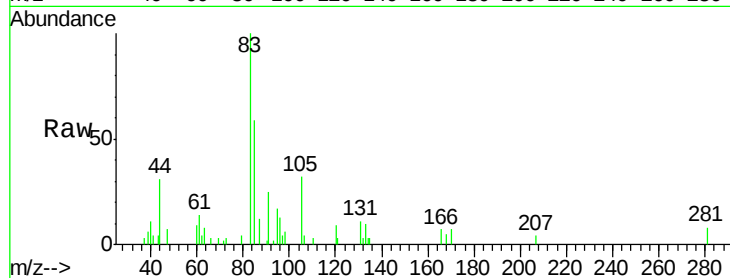
Tot Ion: 83 Resp: 7574

Ion Ratio Lower Upper

83 100

131 10.7 4.4 13.2

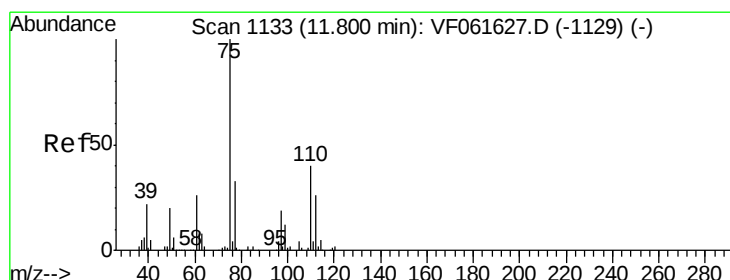
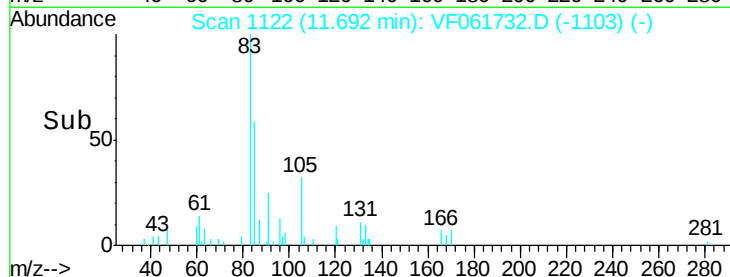
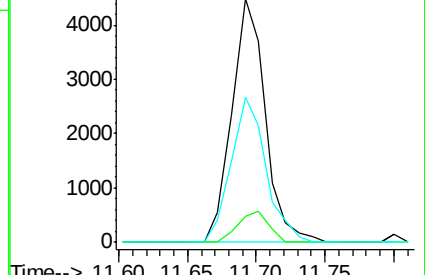
85 59.5 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 2.173 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF061732.D

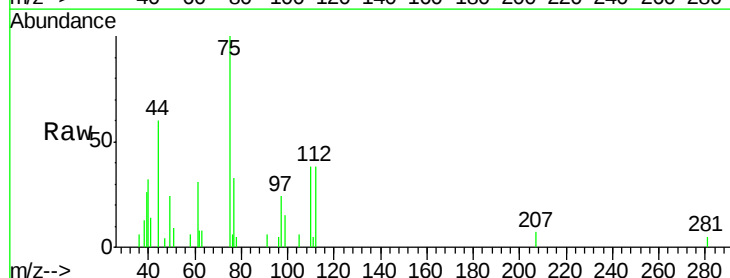
Acq: 25 Feb 2019 16:07

Tgt Ion: 75 Resp: 4516

Ion Ratio Lower Upper

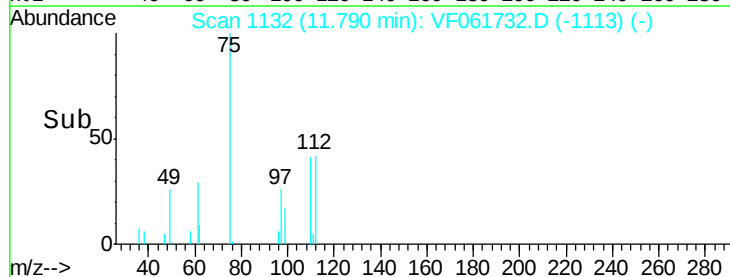
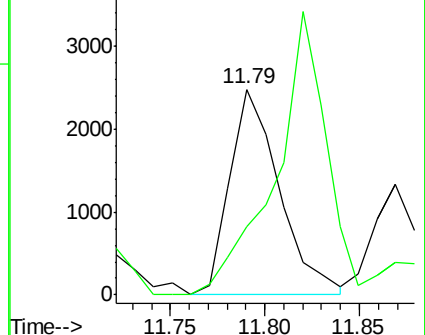
75 100

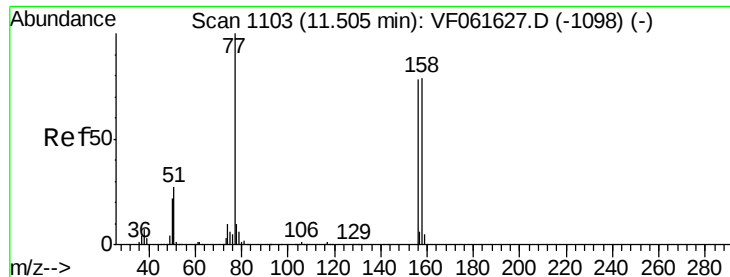
77 33.1 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 2.400 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

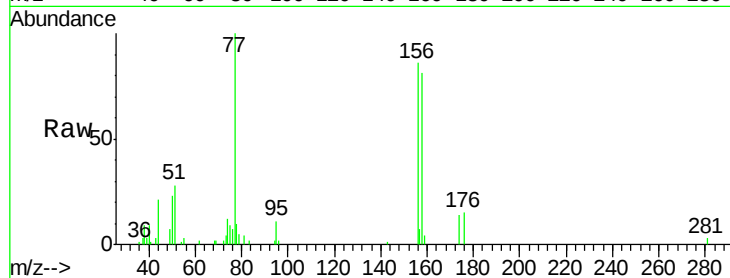
Tot Ion:156 Resp: 10115

Ion Ratio Lower Upper

156 100

77 116.8 64.3 192.7

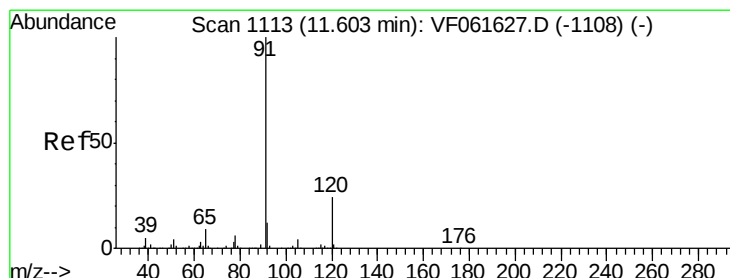
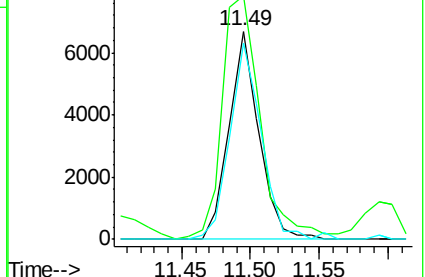
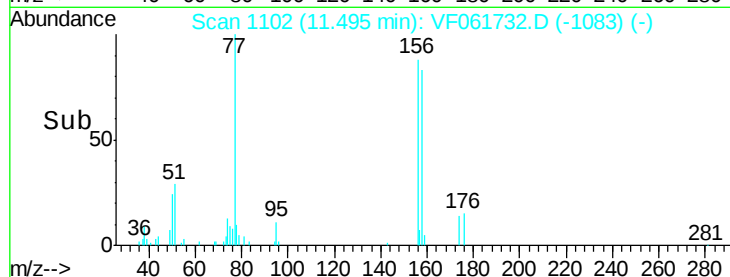
158 94.4 50.9 152.7



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: 2.748 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF061732.D

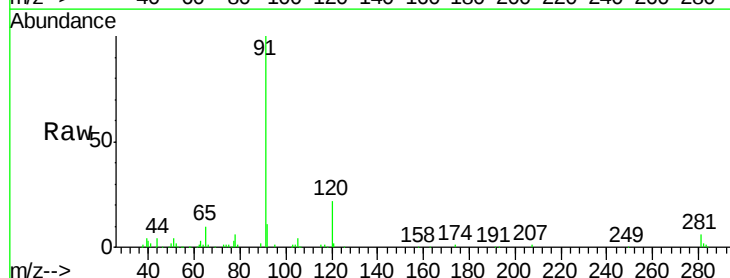
Acq: 25 Feb 2019 16:07

Tgt Ion: 91 Resp: 53795

Ion Ratio Lower Upper

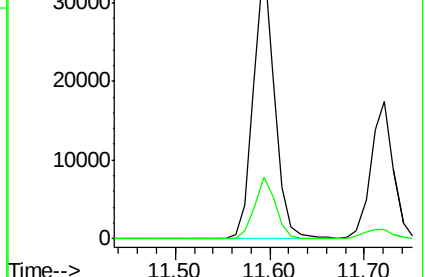
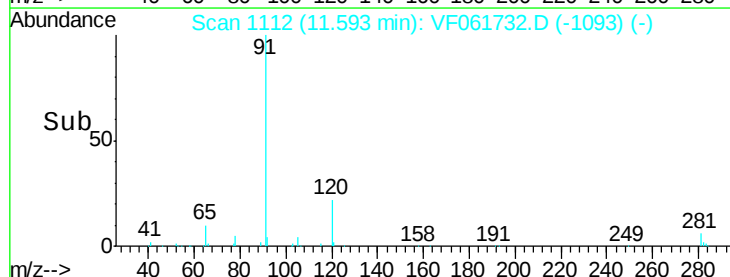
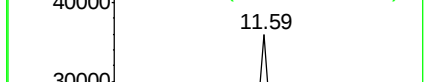
91 100

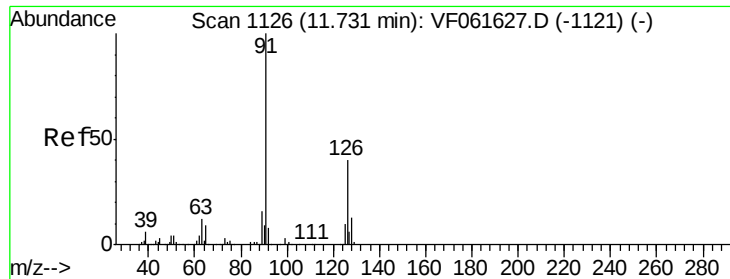
120 21.8 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.705 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

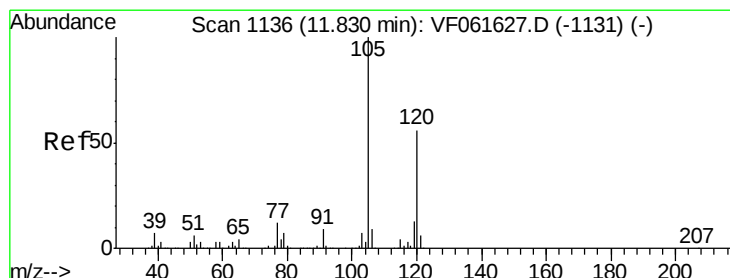
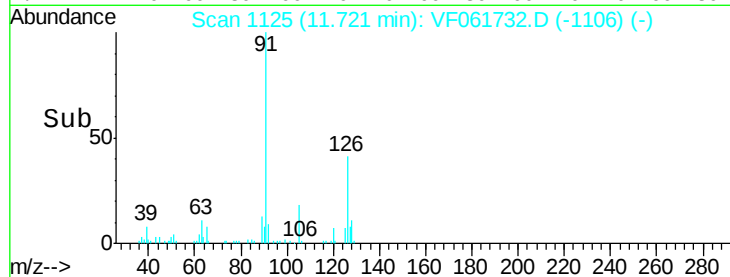
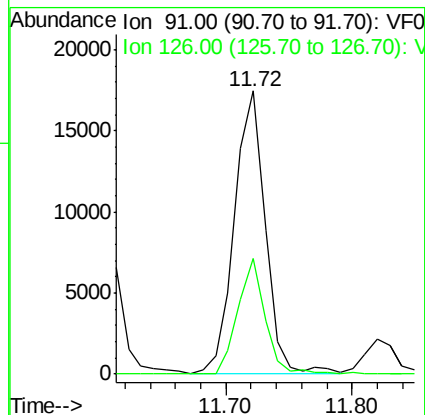
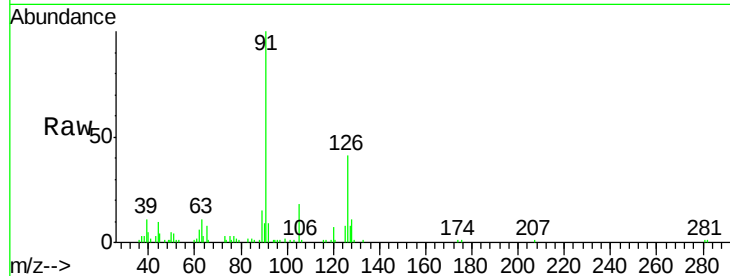
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 91 Resp: 29654

Ion Ratio Lower Upper

91 100

126 41.1 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 2.771 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061732.D

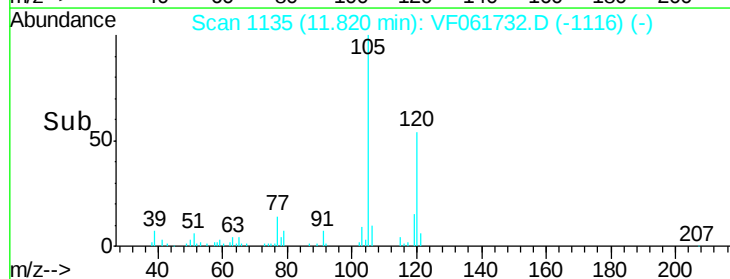
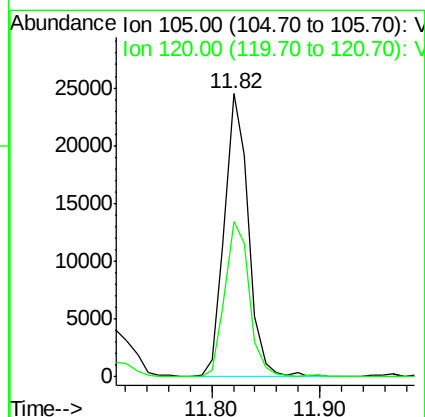
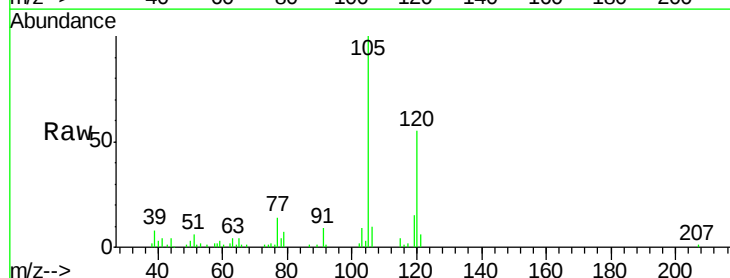
Acq: 25 Feb 2019 16:07

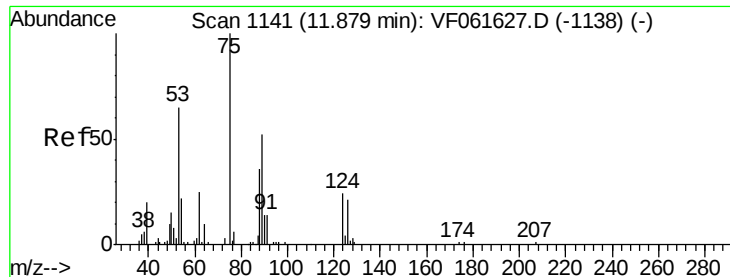
Tgt Ion:105 Resp: 37782

Ion Ratio Lower Upper

105 100

120 54.9 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 2.700 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

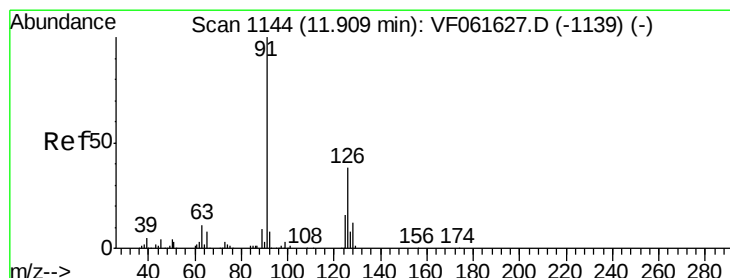
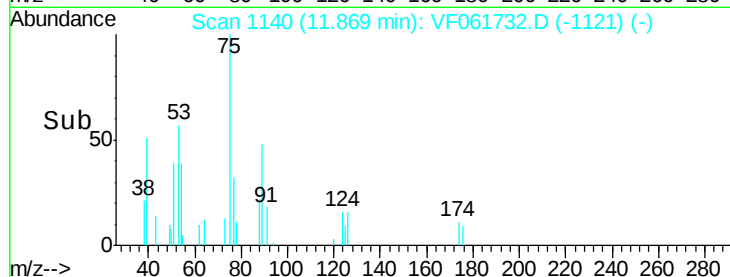
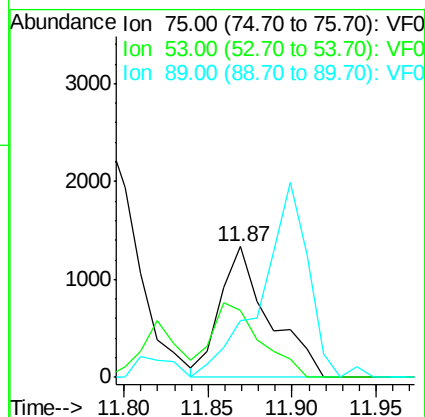
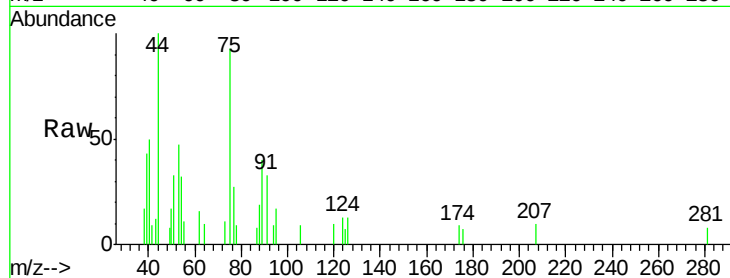
Tot Ion: 75 Resp: 2690

Ion Ratio Lower Upper

75 100

53 50.9 53.7 80.5#

89 43.3 41.6 62.4



#82

4-Chlorotoluene

Concen: 2.619 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF061732.D

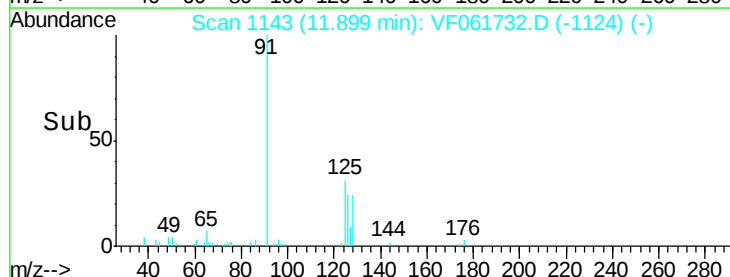
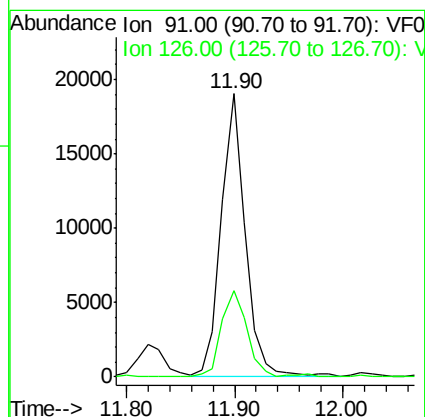
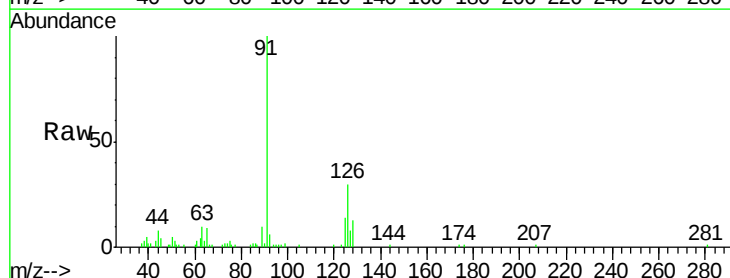
Acq: 25 Feb 2019 16:07

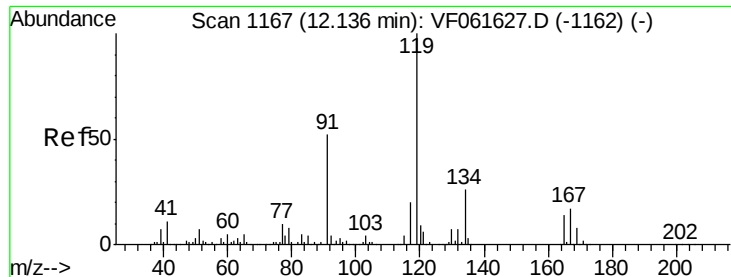
Tgt Ion: 91 Resp: 29798

Ion Ratio Lower Upper

91 100

126 30.4 19.1 57.1

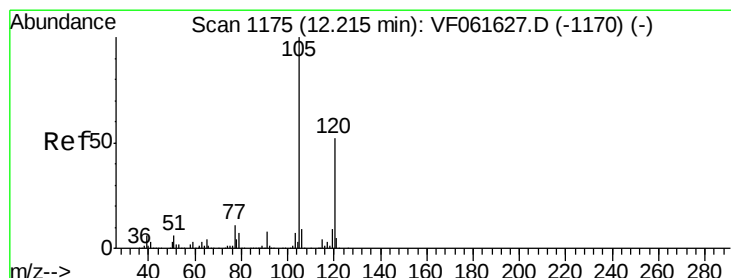
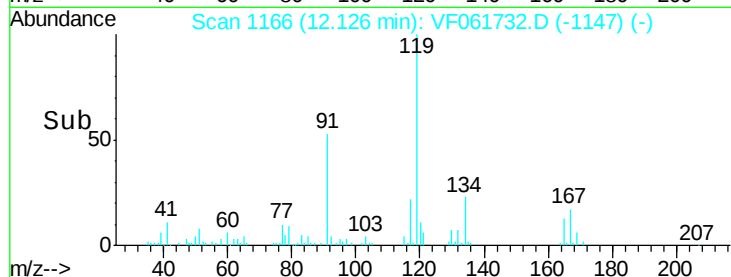
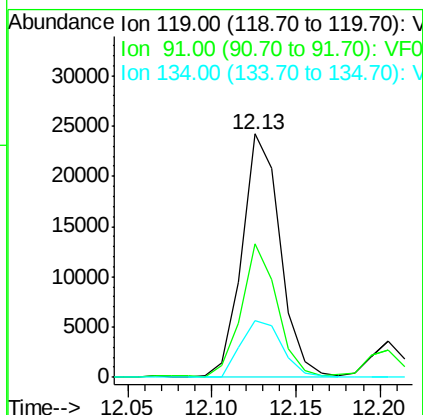
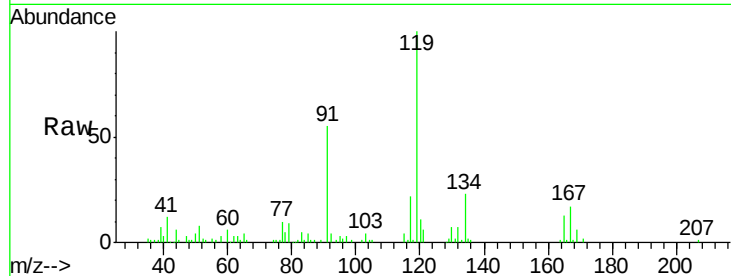




#83
tert-Butylbenzene
Concen: 2.532 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

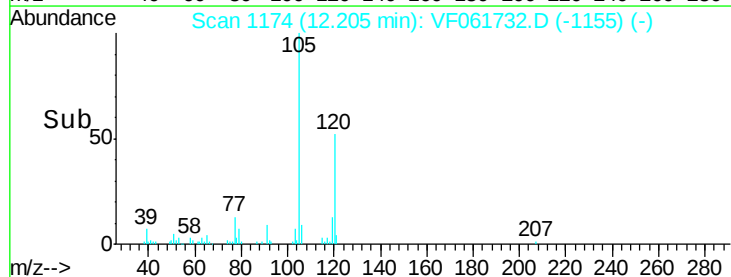
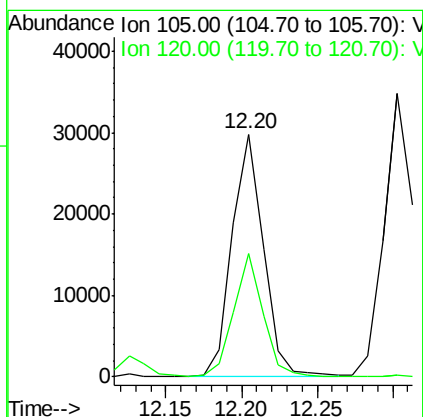
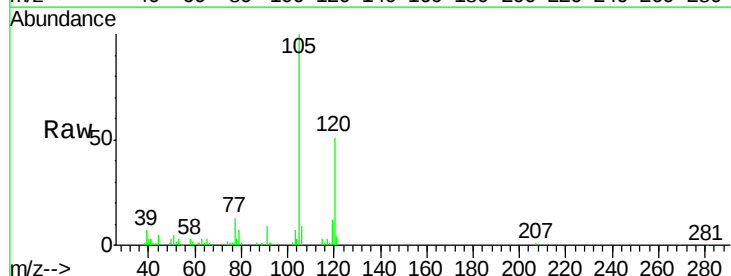
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

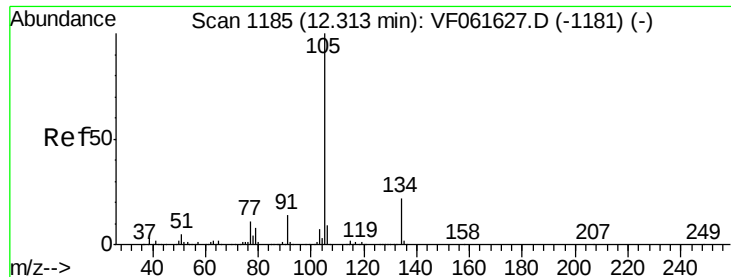
Tot Ion:119 Resp: 38232
Ion Ratio Lower Upper
119 100
91 55.0 26.3 78.8
134 23.1 12.9 38.7



#84
1,2,4-Trimethylbenzene
Concen: 3.191 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion:105 Resp: 43220
Ion Ratio Lower Upper
105 100
120 50.8 26.1 78.3





#85

sec-Butylbenzene

Concen: 2.534 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

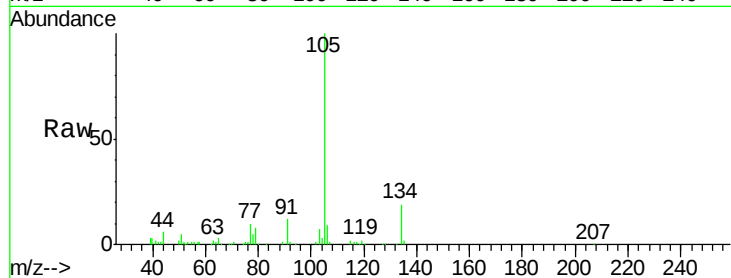
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:105 Resp: 49475

Ion Ratio Lower Upper

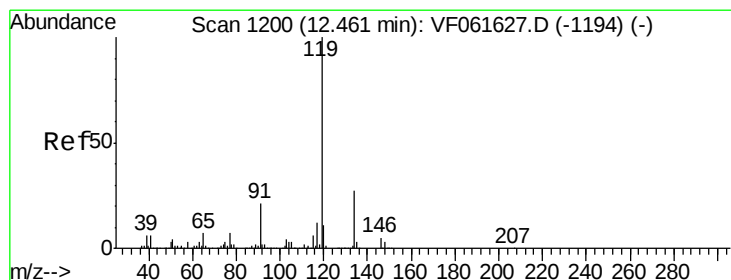
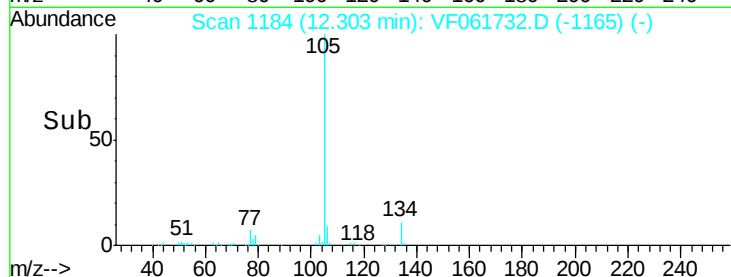
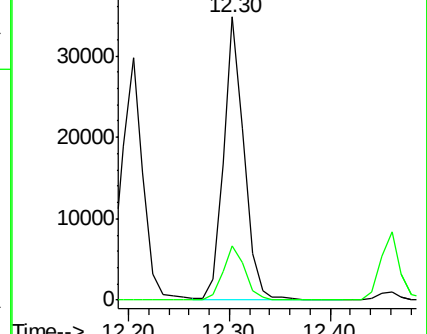
105 100

134 19.3 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.753 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

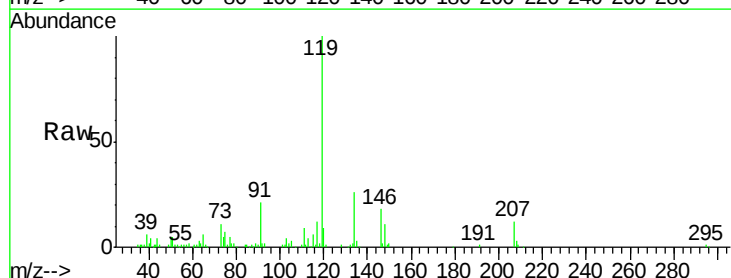
Tgt Ion:119 Resp: 45125

Ion Ratio Lower Upper

119 100

134 25.7 13.7 41.1

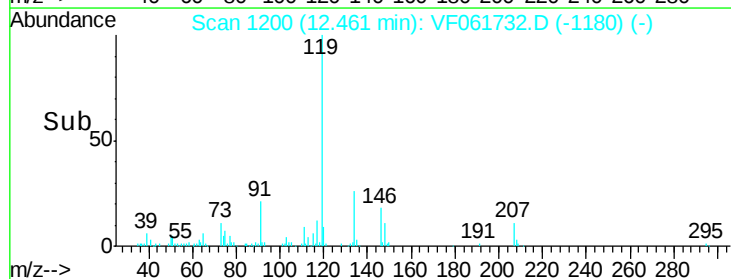
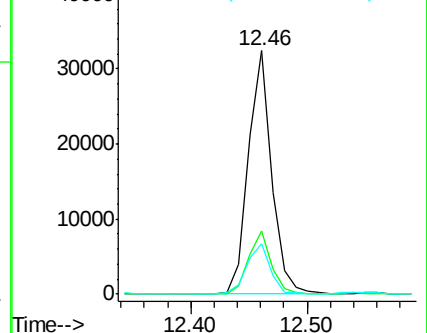
91 20.6 10.8 32.4

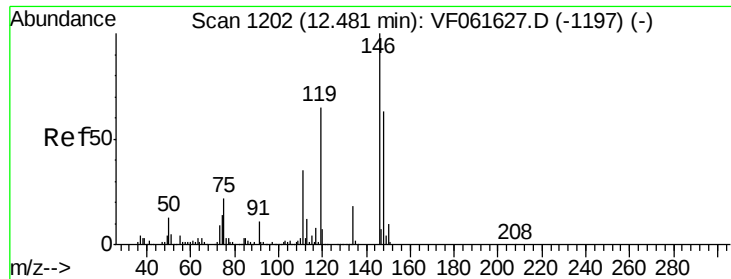


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 2.835 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

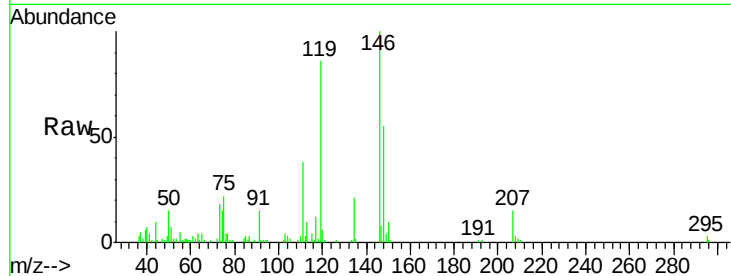
Tot Ion:146 Resp: 23290

Ion Ratio Lower Upper

146 100

111 37.8 17.5 52.6

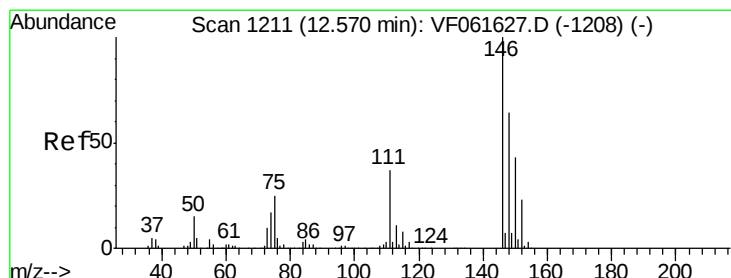
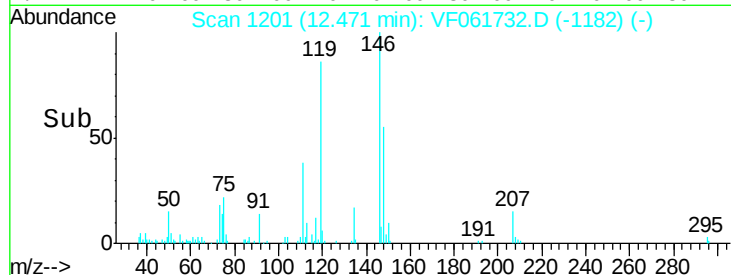
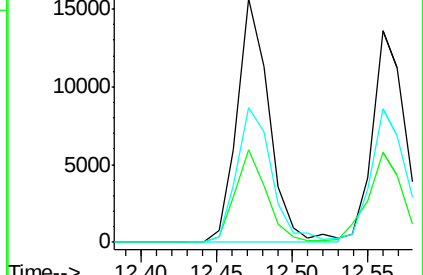
148 55.3 31.4 94.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 2.651 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

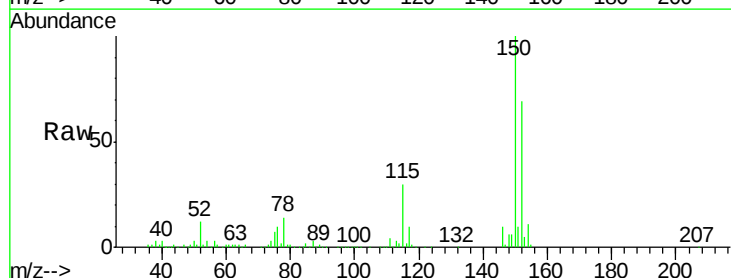
Tgt Ion:146 Resp: 20944

Ion Ratio Lower Upper

146 100

111 42.3 18.4 55.4

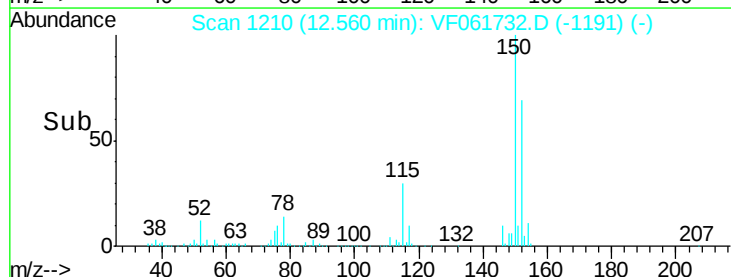
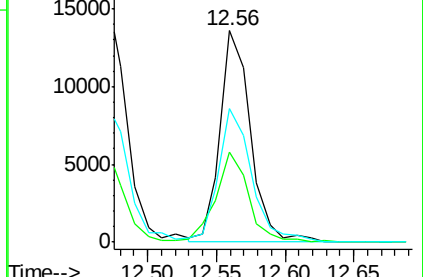
148 63.2 32.2 96.6

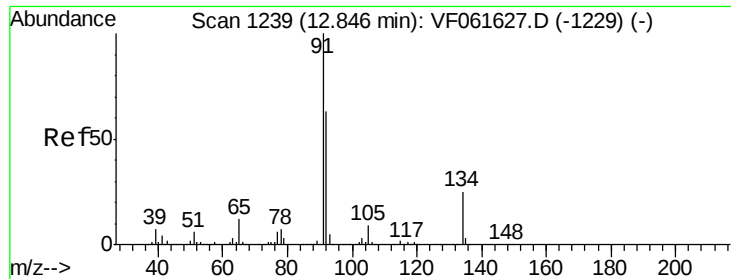


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

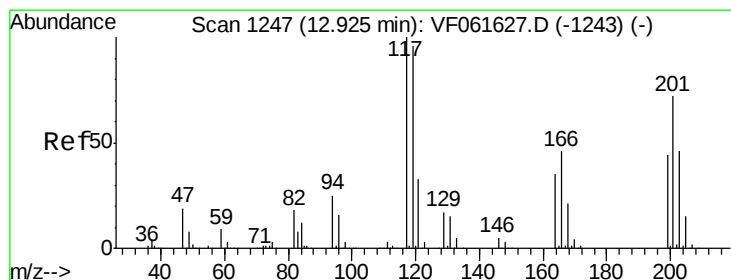
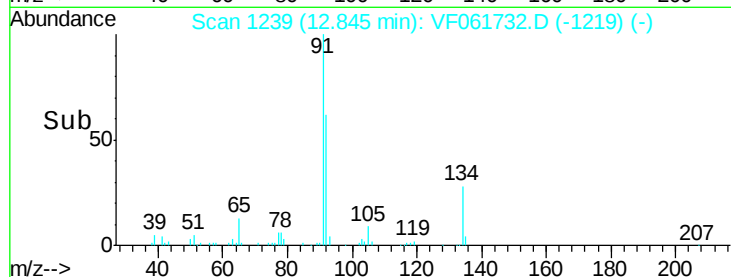
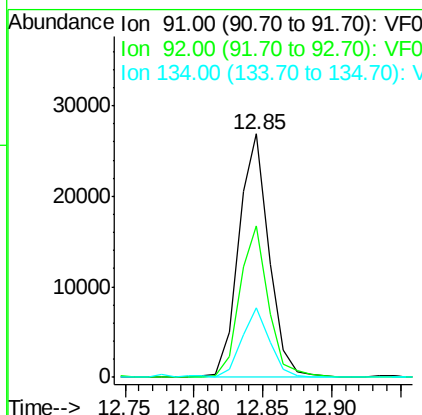
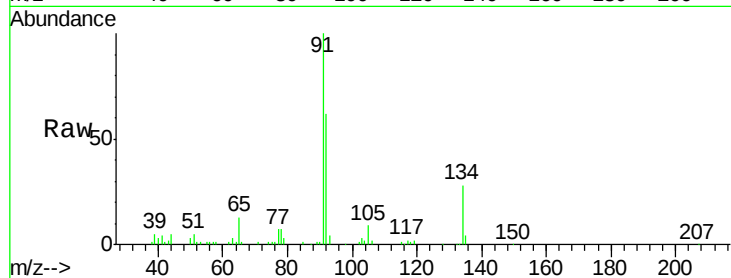




#89
n-Butylbenzene
Concen: 2.656 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

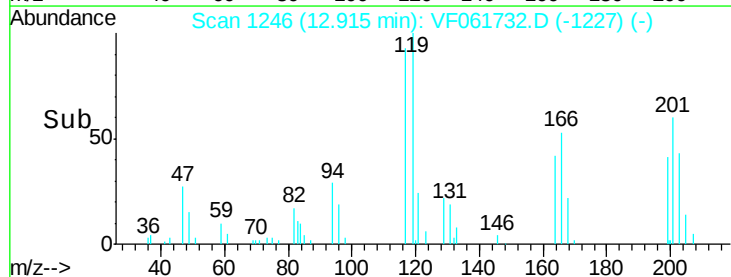
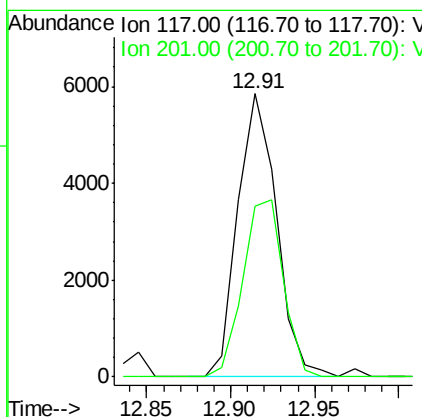
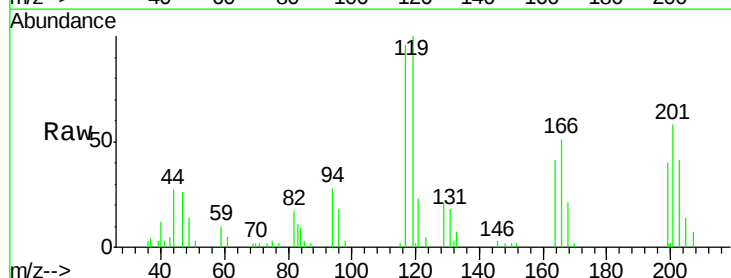
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

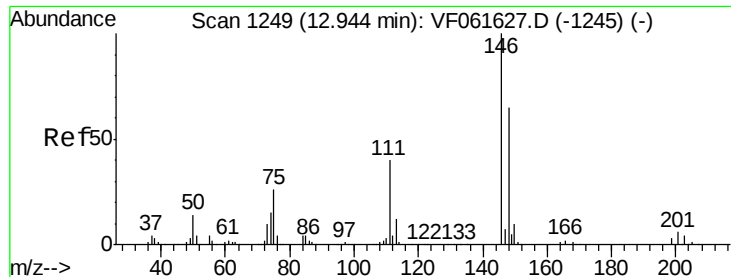
Tot Ion: 91 Resp: 41103
Ion Ratio Lower Upper
91 100
92 62.1 31.4 94.3
134 28.3 12.3 36.9



#90
Hexachloroethane
Concen: 2.456 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 117 Resp: 9363
Ion Ratio Lower Upper
117 100
201 60.5 36.2 108.6

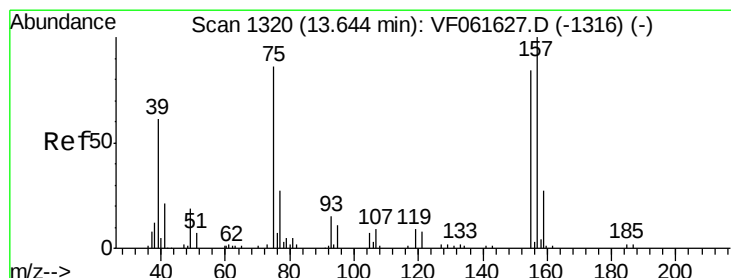
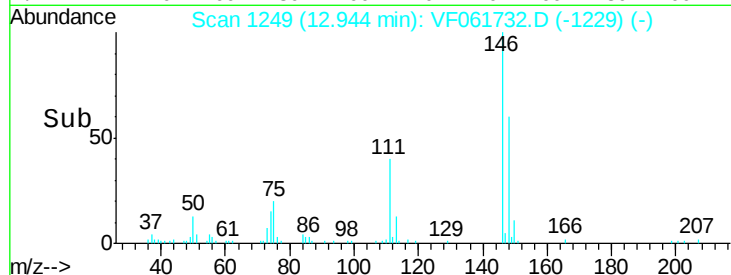
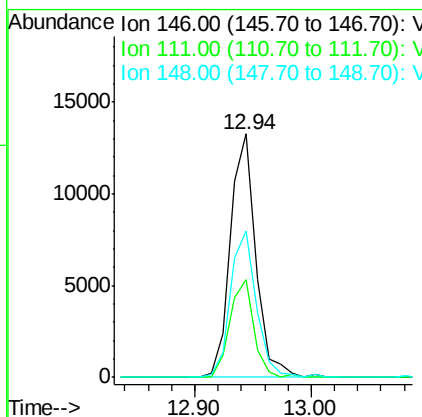
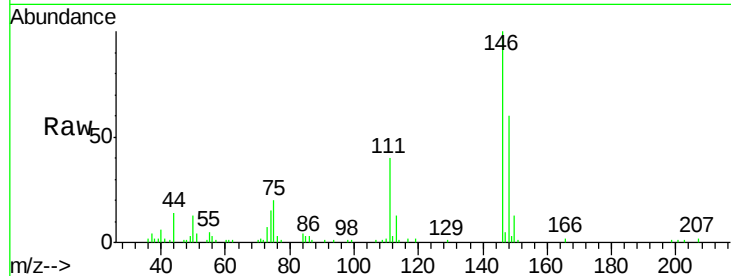




#91
 1,2-Dichlorobenzene
 Concen: 2.570 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

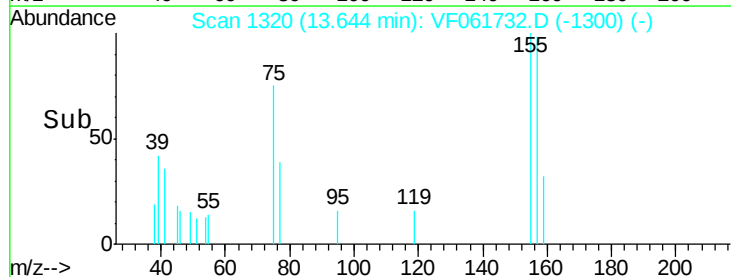
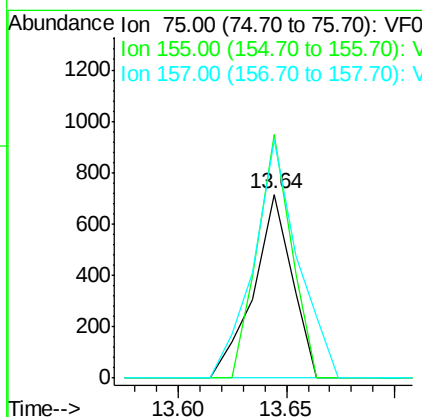
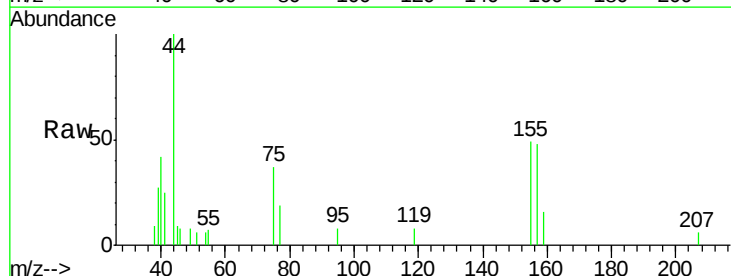
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

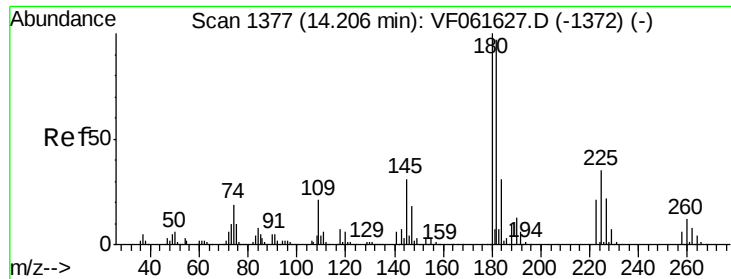
Tot Ion:146 Resp: 20083
 Ion Ratio Lower Upper
 146 100
 111 40.3 20.2 60.5
 148 60.1 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.822 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 75 Resp: 883
 Ion Ratio Lower Upper
 75 100
 155 132.6 48.9 146.8
 157 130.2 58.3 174.8

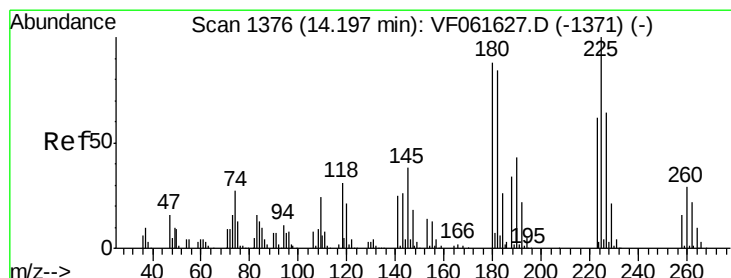
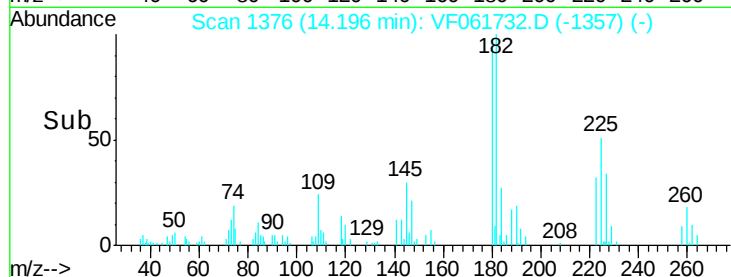
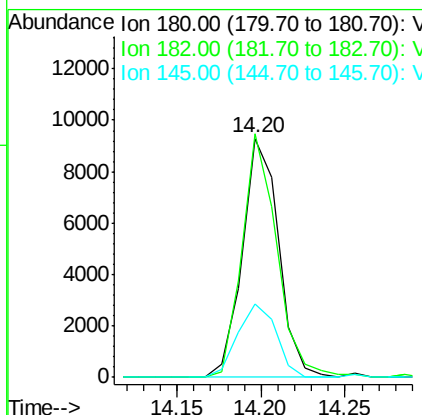
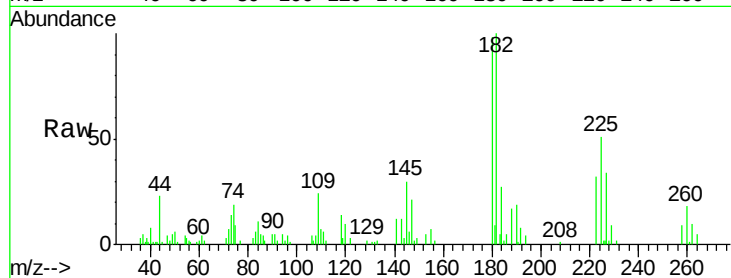




#93
 1,2,4-Trichlorobenzene
 Concen: 2.484 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

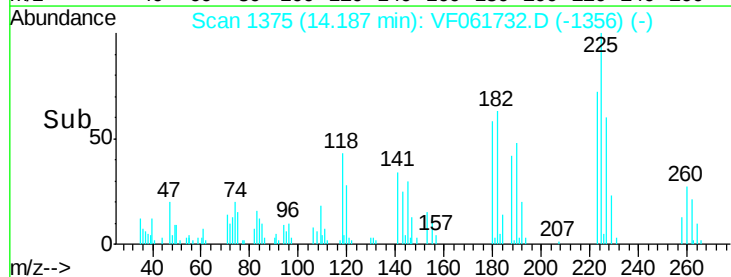
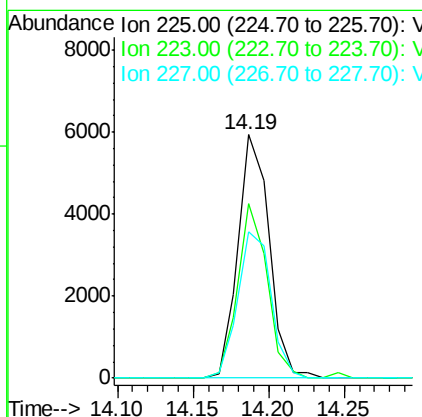
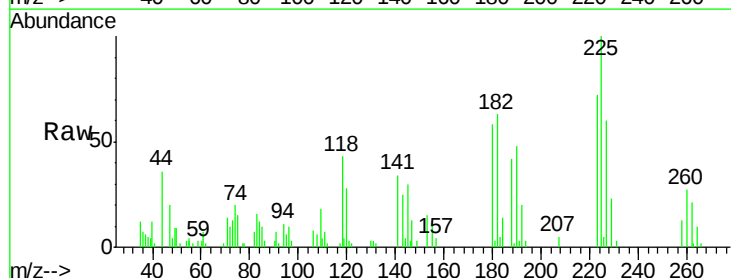
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

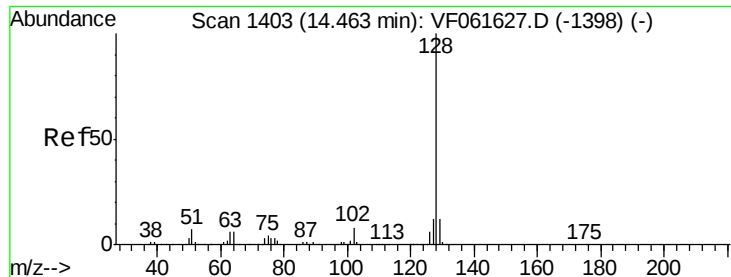
Tot Ion:180 Resp: 13911
 Ion Ratio Lower Upper
 180 100
 182 101.9 48.6 145.9
 145 30.6 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 2.455 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion:225 Resp: 8493
 Ion Ratio Lower Upper
 225 100
 223 68.3 30.9 92.7
 227 57.1 32.1 96.3





#95

Naphthalene

Concen: 2.135 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

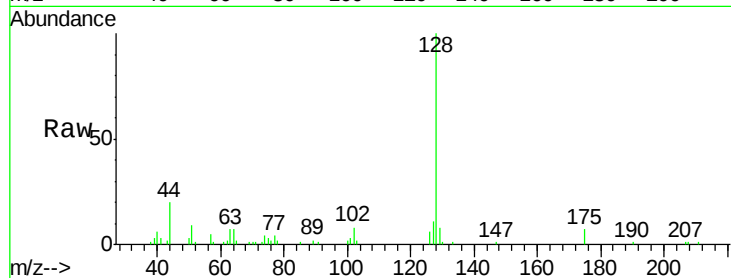
Tot Ion:128 Resp: 20918

Ion Ratio Lower Upper

128 100

127 10.9 9.8 14.6

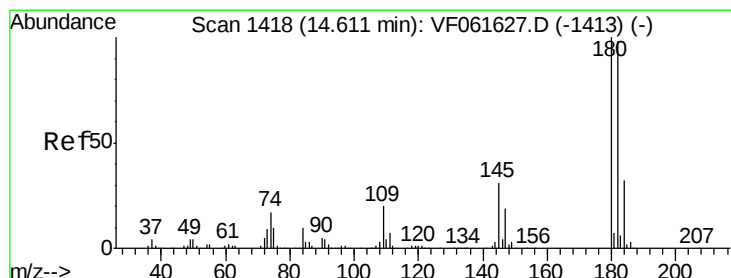
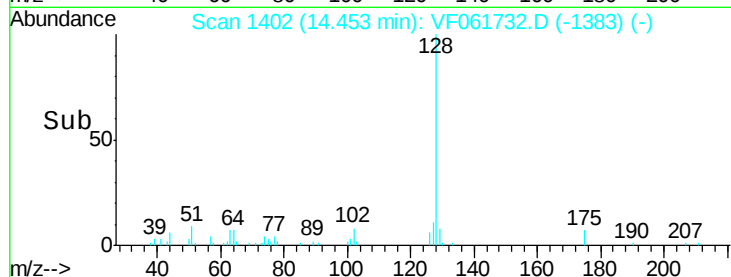
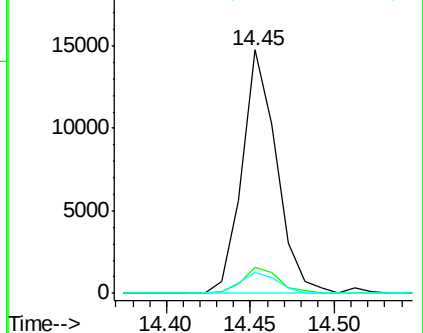
129 8.4 9.4 14.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.319 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

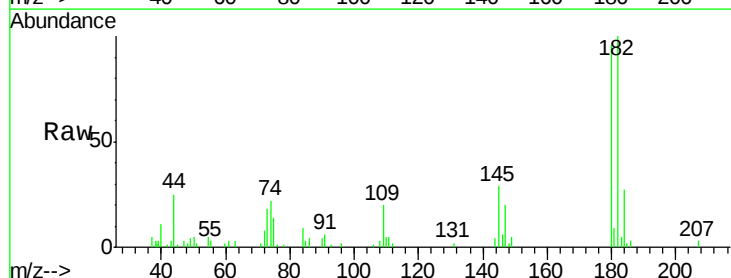
Tgt Ion:180 Resp: 11923

Ion Ratio Lower Upper

180 100

182 103.9 49.0 147.2

145 29.9 15.4 46.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

