

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022619\
 Data File : VF061746.D
 Acq On : 26 Feb 2019 17:32
 Operator : VA/AP
 Sample : K1560-02L0010PPB
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

Quant Time: Feb 27 04:59:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	300437	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	439272	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	395795	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.53	152	224402	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	123207	55.92	ug/l	-0.04
Spiked Amount			Recovery	=	111.84%	
35) Dibromofluoromethane	4.08	113	184862	56.67	ug/l	-0.04
Spiked Amount			Recovery	=	113.34%	
50) Toluene-d8	7.53	98	491780	52.44	ug/l	-0.03
Spiked Amount			Recovery	=	104.88%	
62) 4-Bromofluorobenzene	11.40	95	212386	55.97	ug/l	-0.02
Spiked Amount			Recovery	=	111.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	44261	12.829	ug/l	95
3) Chloromethane	1.09	50	40810	11.273	ug/l	90
4) Vinyl Chloride	1.14	62	40362	11.994	ug/l	96
5) Bromomethane	1.33	94	30117	13.003	ug/l	99
6) Chloroethane	1.37	64	20121	12.133	ug/l	98
7) Trichlorofluoromethane	1.48	101	51861	12.777	ug/l	97
8) Diethyl Ether	1.62	74	11411	11.156	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	34760	11.871	ug/l	93
10) Methyl Iodide	1.89	142	52411	9.370	ug/l	96
11) Tert butyl alcohol	2.55	59	6814	53.441	ug/l	99
12) 1,1-Dichloroethene	1.79	96	30948	12.021	ug/l	95
13) Acrolein	1.99	56	6890	42.995	ug/l	93
14) Allyl chloride	2.08	41	34150	10.810	ug/l	94
15) Acrylonitrile	2.93	53	23325	51.574	ug/l	91
16) Acetone	2.23	43	29709	62.850	ug/l	94
17) Carbon Disulfide	1.83	76	91267	11.278	ug/l	98
18) Methyl Acetate	2.41	43	12901	12.115	ug/l	93
19) Methyl tert-butyl Ether	2.42	73	54729	12.439	ug/l	93
20) Methylene Chloride	2.17	84	13331	2.888	ug/l	98
21) trans-1,2-Dichloroethene	2.30	96	33180	11.856	ug/l	96
22) Diisopropyl ether	2.78	45	86825	11.450	ug/l	93
23) Vinyl Acetate	3.17	43	197723	53.383	ug/l	98
24) 1,1-Dichloroethane	2.85	63	53695	11.701	ug/l	98
25) 2-Butanone	4.32	43	59695	57.815	ug/l	93
26) 2,2-Dichloropropane	3.57	77	24903	12.811	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	42441	11.554	ug/l	96
28) Bromochloromethane	3.70	49	23167	10.521	ug/l	98
29) Tetrahydrofuran	4.05	42	25509	54.357	ug/l	100
30) Chloroform	3.84	83	63031	12.078	ug/l	93
31) Cyclohexane	3.67	56	58590	11.794	ug/l	95
32) 1,1,1-Trichloroethane	4.07	97	43917	12.846	ug/l	97
36) 1,1-Dichloropropene	4.26	75	51028	11.726	ug/l	91
37) Ethyl Acetate	4.08	43	24240	11.993	ug/l #	86
38) Carbon Tetrachloride	3.97	117	38577	12.839	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	55000	10.687	ug/l	95
40) Benzene	4.61	78	129111	11.343	ug/l	97
41) Methacrylonitrile	4.72	41	12265	11.866	ug/l	92
42) 1,2-Dichloroethane	4.92	62	32555	11.957	ug/l	91
43) Isopropyl Acetate	6.94	43	26685	11.154	ug/l #	95
44) Trichloroethene	5.48	130	42172	11.458	ug/l	93
45) 1,2-Dichloropropane	6.21	63	32970	11.984	ug/l	98
46) Dibromomethane	6.07	93	19136	11.297	ug/l	91
47) Bromodichloromethane	6.36	83	45316	12.216	ug/l #	92
48) Methyl methacrylate	6.70	41	16741	11.628	ug/l	96
49) 1,4-Dioxane	6.69	88	2541	187.745	ug/l #	72
51) 4-Methyl-2-Pentanone	8.24	43	96797	56.624	ug/l	98
52) Toluene	7.60	92	80698	11.690	ug/l	91
53) t-1,3-Dichloropropene	8.25	75	38782	12.562	ug/l	93
54) cis-1,3-Dichloropropene	7.28	75	52038	12.654	ug/l	96
55) 1,1,2-Trichloroethane	8.47	97	23742	11.706	ug/l #	94
56) Ethyl methacrylate	8.60	69	24809	10.987	ug/l	94
57) 1,3-Dichloropropane	8.84	76	39969	11.807	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.28	63	20366	52.274	ug/l	95
59) 2-Hexanone	9.48	43	71730	59.860	ug/l	96
60) Dibromochloromethane	8.70	129	31152	11.035	ug/l	95
61) 1,2-Dibromoethane	8.96	107	24922	11.329	ug/l	97
64) Tetrachloroethene	8.14	164	39310	12.151	ug/l	95
65) Chlorobenzene	9.77	112	95746	11.921	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.91	131	37486	11.911	ug/l	94
67) Ethyl Benzene	9.88	91	155714	11.658	ug/l	99
68) m/p-Xylenes	10.11	106	121195	23.709	ug/l	93
69) o-Xylene	10.69	106	61608	11.295	ug/l	93
70) Styrene	10.77	104	92796	12.026	ug/l	97
71) Bromoform	10.76	173	18949	11.088	ug/l	97
73) Isopropylbenzene	11.10	105	187649	11.745	ug/l	95
74) N-amyl acetate	11.36	43	41631	10.856	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.68	83	31761	11.096	ug/l	88
76) 1,2,3-Trichloropropane	11.77	75	21794	11.199	ug/l	100
77) Bromobenzene	11.48	156	45714	11.582	ug/l	98
78) n-propylbenzene	11.58	91	224408	12.240	ug/l	96
79) 2-Chlorotoluene	11.71	91	122930	11.972	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	159011	12.452	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	13040	13.977	ug/l	96
82) 4-Chlorotoluene	11.88	91	123509	11.589	ug/l	96
83) tert-Butylbenzene	12.12	119	169668	11.996	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	156558	12.341	ug/l	97
85) sec-Butylbenzene	12.29	105	220917	12.079	ug/l	93
86) p-Isopropyltoluene	12.45	119	186979	12.181	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	94595	12.293	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	86627	11.706	ug/l	96
89) n-Butylbenzene	12.83	91	181786	12.542	ug/l	94
90) Hexachloroethane	12.90	117	43032	12.054	ug/l	85
91) 1,2-Dichlorobenzene	12.93	146	86106	11.765	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	4473	9.856	ug/l #	62

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Quant Title : SW846 8260
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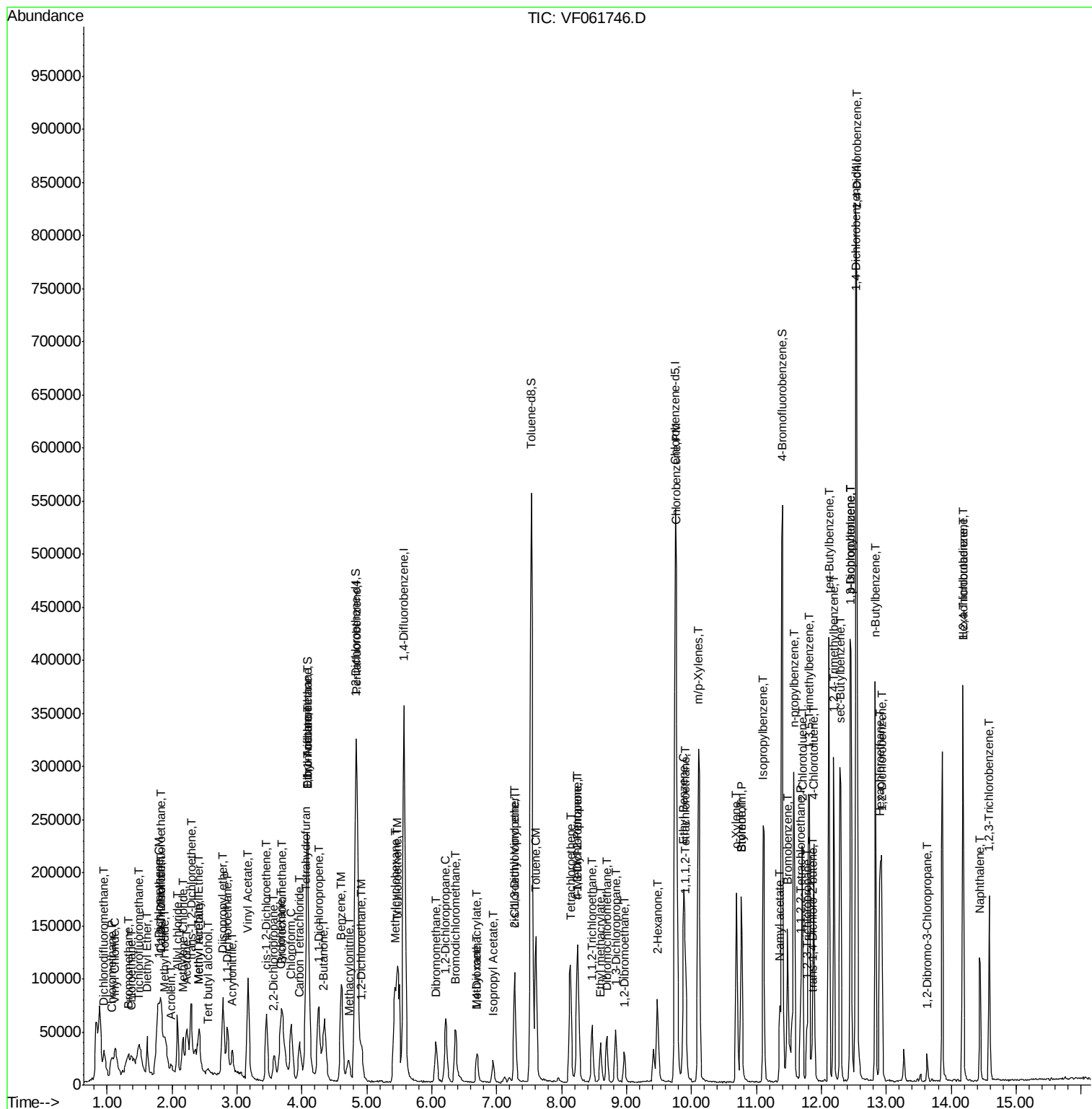
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	60557	11.543	ug/l	96
94) Hexachlorobutadiene	14.18	225	39739	12.265	ug/l	97
95) Naphthalene	14.45	128	93573	10.195	ug/l	96
96) 1,2,3-Trichlorobenzene	14.59	180	52488	10.901	ug/l	97

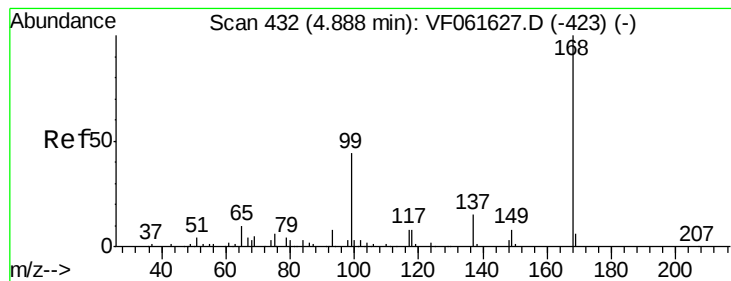
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

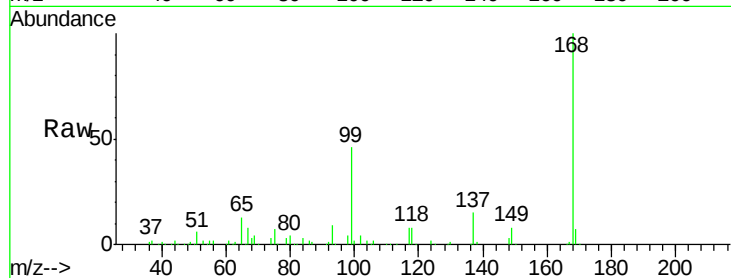
LOQ-SOIL-02-QT1-2019

Tot Ion:168 Resp: 300437

Ion Ratio Lower Upper

168 100

99 45.9 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

100000

80000

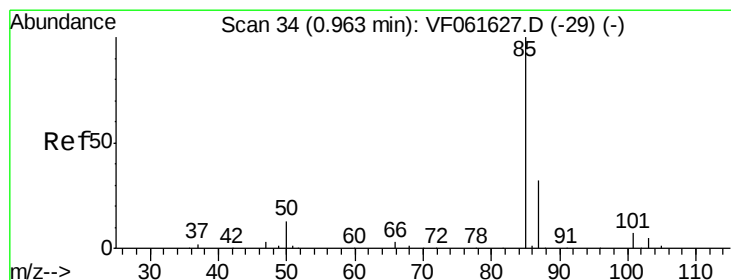
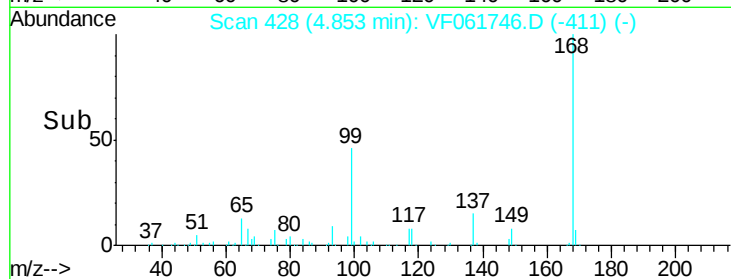
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 12.829 ug/l

RT: 0.95 min Scan# 32

Delta R.T. -0.02 min

Lab File: VF061746.D

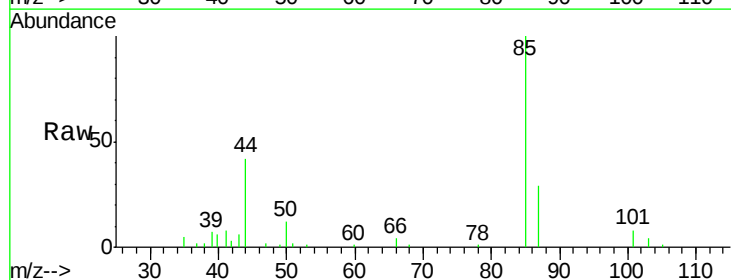
Acq: 26 Feb 2019 17:32

Tgt Ion: 85 Resp: 44261

Ion Ratio Lower Upper

85 100

87 29.1 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

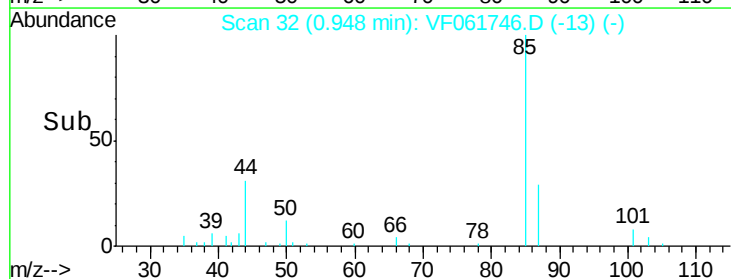
15000

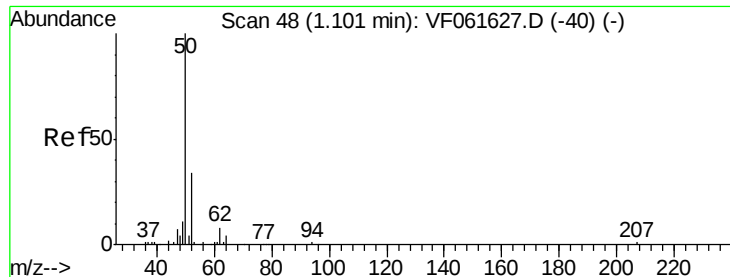
10000

5000

0

Time-->





#3

Chloromethane

Concen: 11.273 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

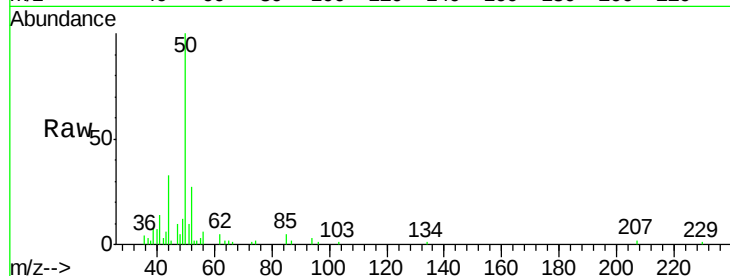
LOQ-SOIL-02-QT1-2019

Tot Ion: 50 Resp: 40810

Ion Ratio Lower Upper

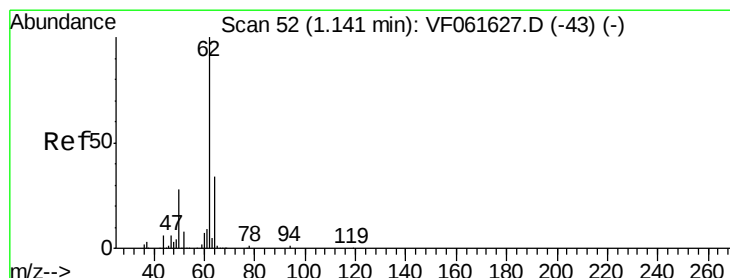
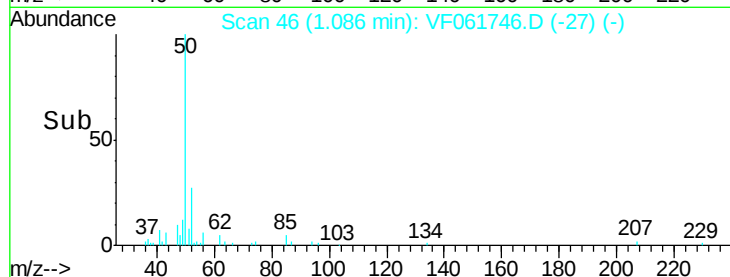
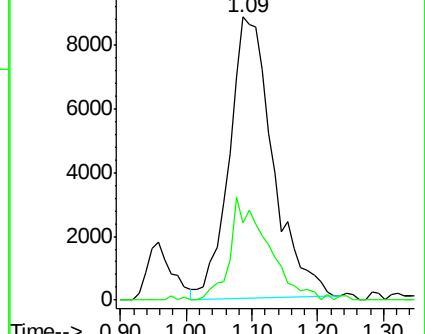
50 100

52 27.2 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: 11.994 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061746.D

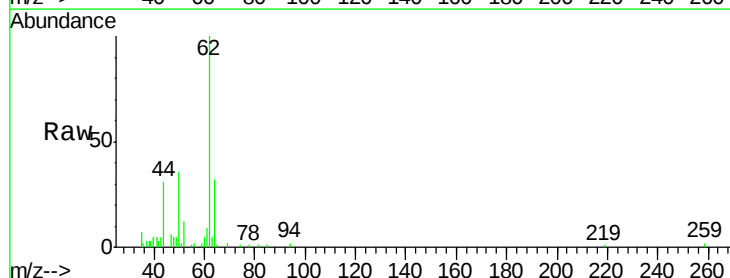
Acq: 26 Feb 2019 17:32

Tgt Ion: 62 Resp: 40362

Ion Ratio Lower Upper

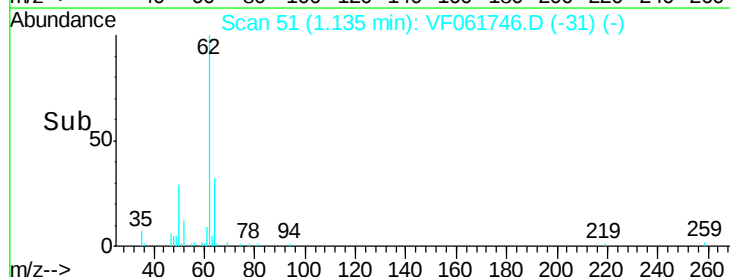
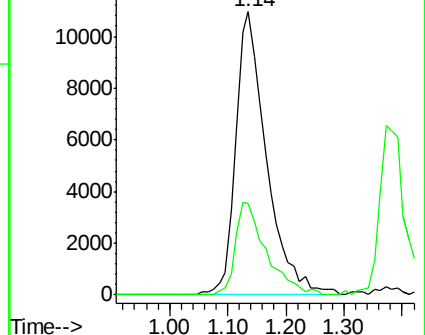
62 100

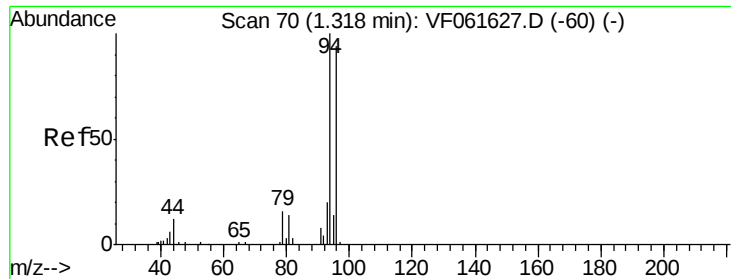
64 32.2 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 13.003 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

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ClientSampleId :

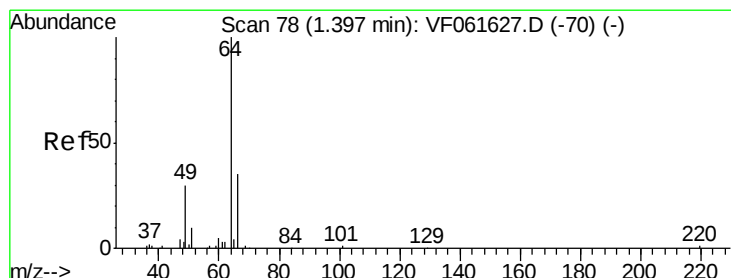
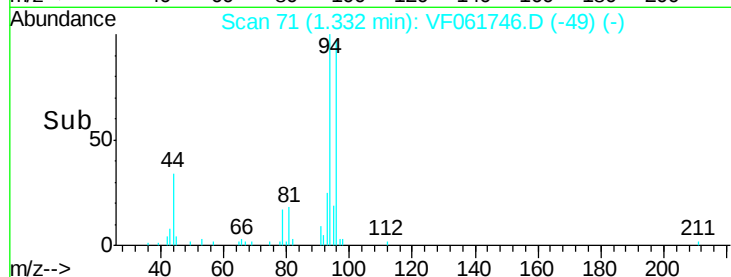
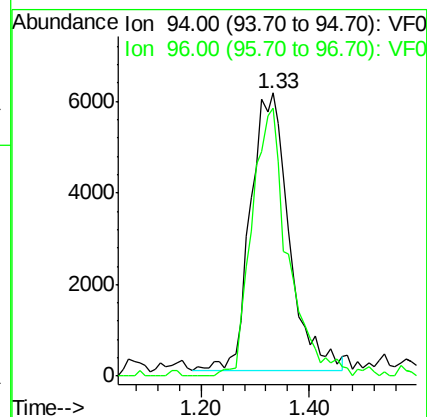
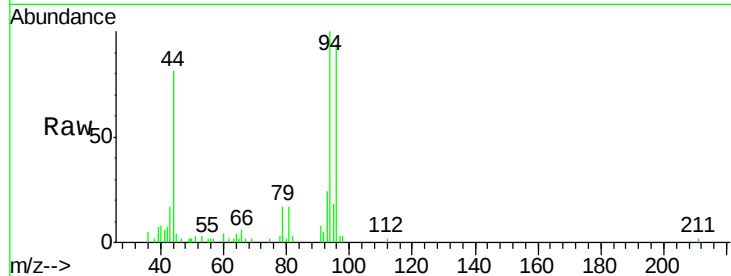
LOQ-SOIL-02-QT1-2019

Tot Ion: 94 Resp: 30117

Ion Ratio Lower Upper

94 100

96 94.5 74.6 112.0



#6

Chloroethane

Concen: 12.133 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.03 min

Lab File: VF061746.D

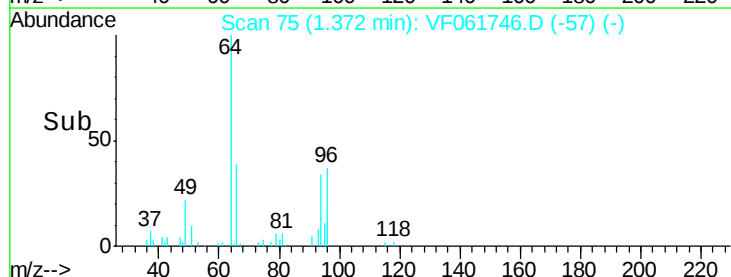
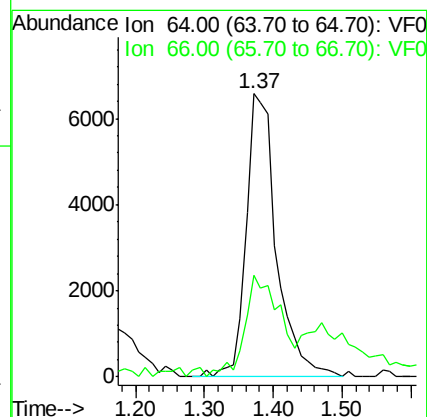
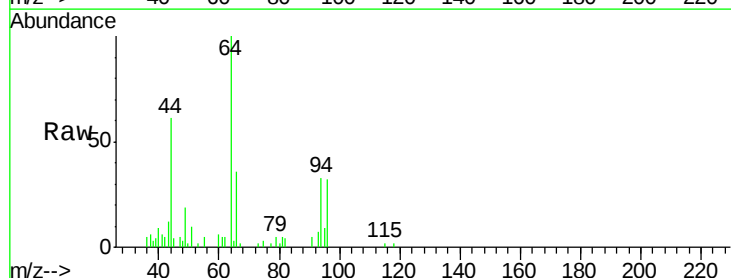
Acq: 26 Feb 2019 17:32

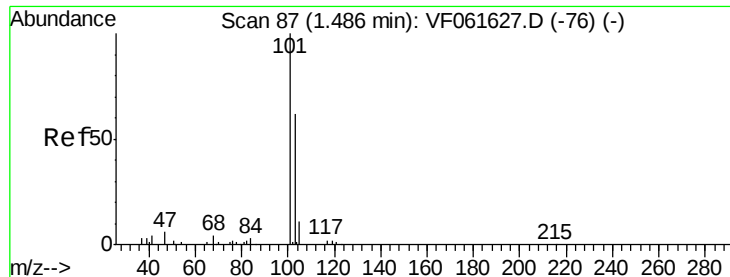
Tgt Ion: 64 Resp: 20121

Ion Ratio Lower Upper

64 100

66 35.8 27.9 41.9





#7

Trichlorofluoromethane

Concen: 12.777 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF061746.D

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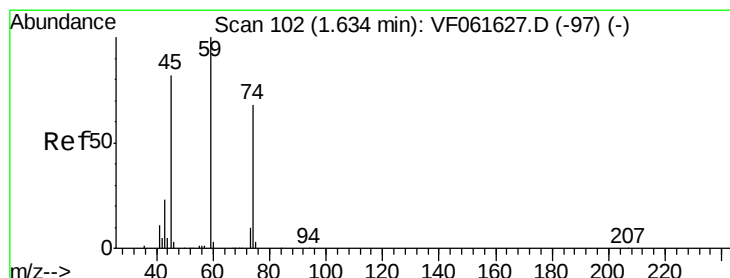
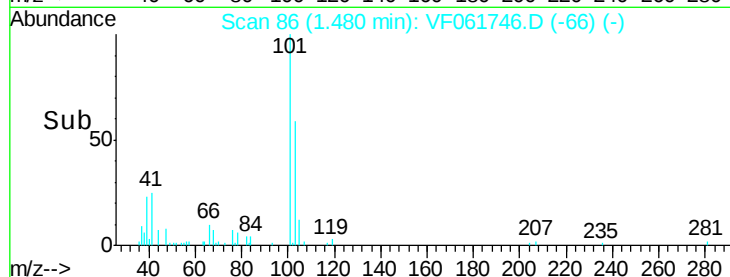
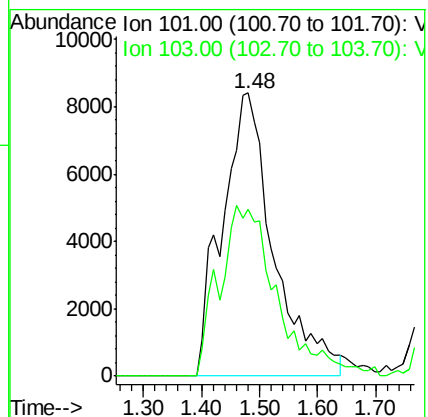
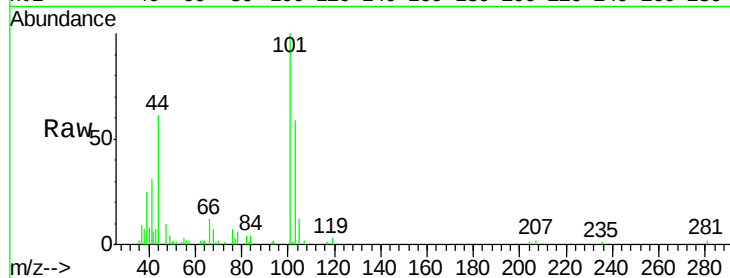
LOQ-SOIL-02-QT1-2019

Tot Ion:101 Resp: 51861

Ion Ratio Lower Upper

101 100

103 59.0 49.3 73.9



#8

Diethyl Ether

Concen: 11.156 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF061746.D

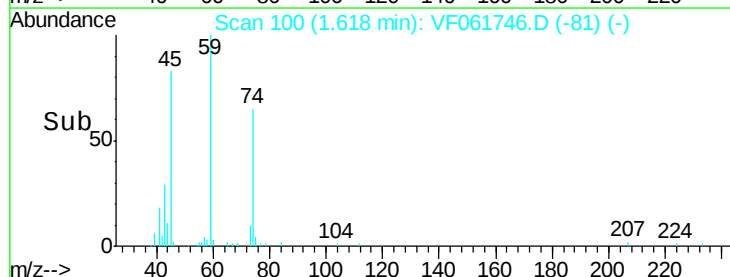
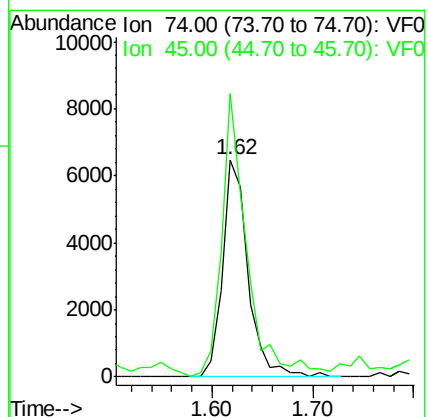
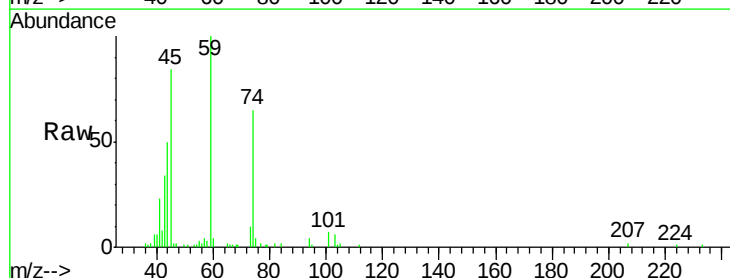
Acq: 26 Feb 2019 17:32

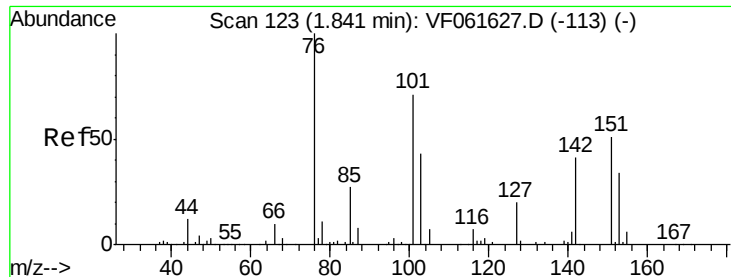
Tgt Ion: 74 Resp: 11411

Ion Ratio Lower Upper

74 100

45 130.5 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.871 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061746.D

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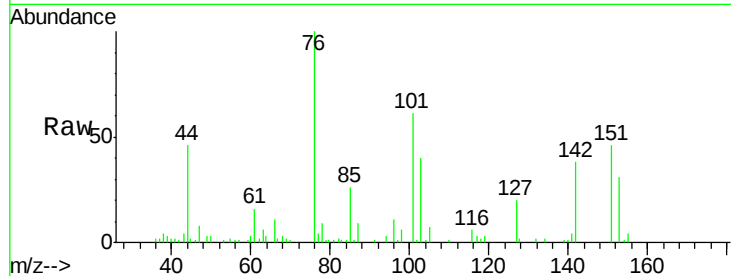
Tot Ion:101 Resp: 34760

Ion Ratio Lower Upper

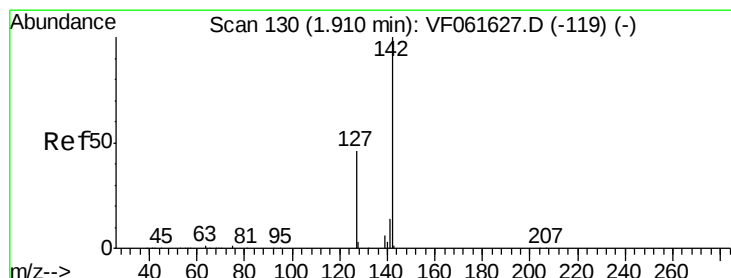
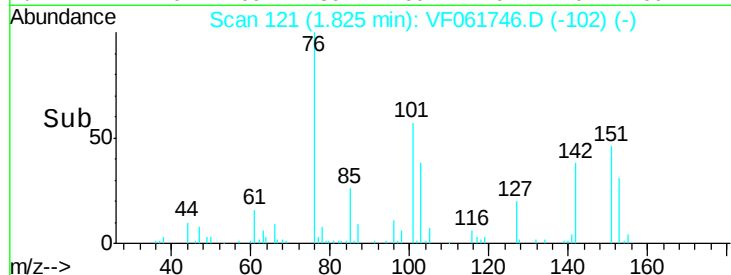
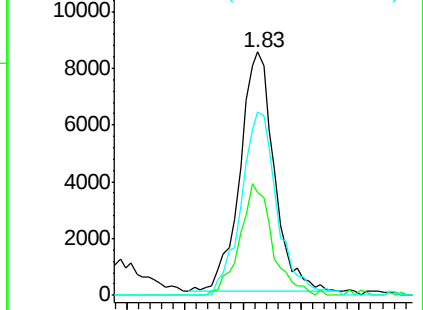
101 100

85 42.3 29.8 44.6

151 75.4 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 9.370 ug/l

RT: 1.89 min Scan# 128

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

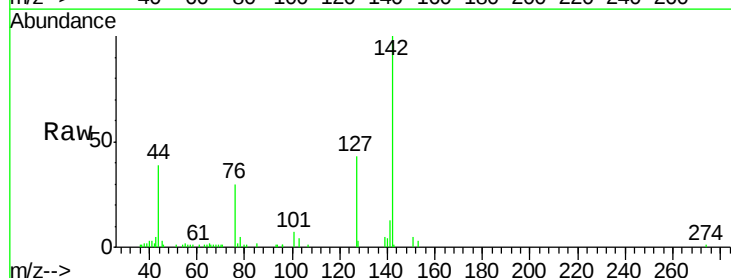
Tgt Ion:142 Resp: 52411

Ion Ratio Lower Upper

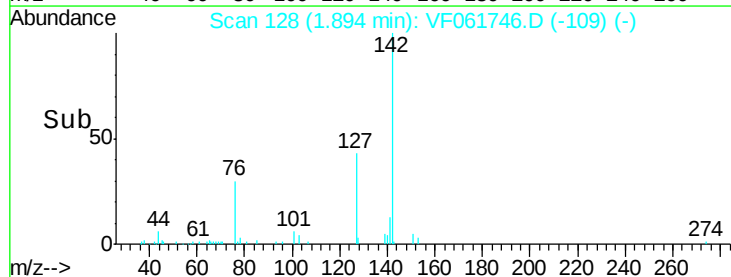
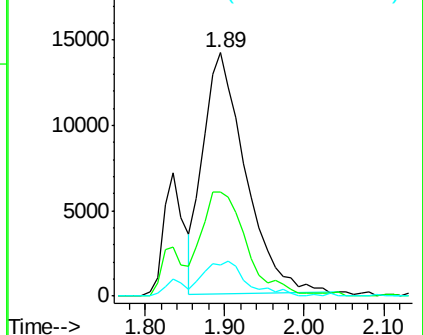
142 100

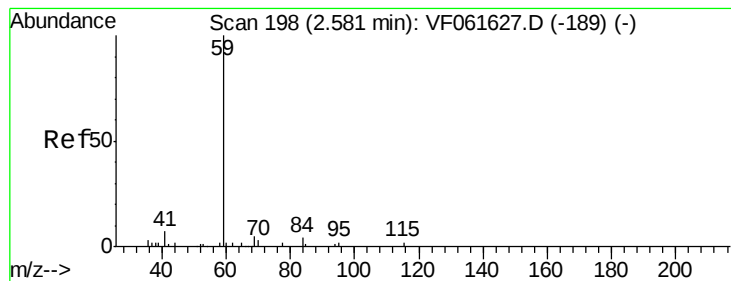
127 42.8 36.6 55.0

141 13.0 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



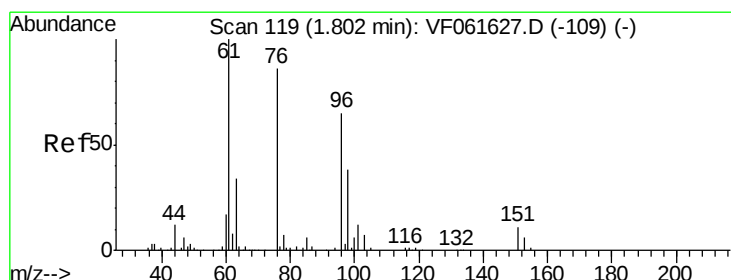
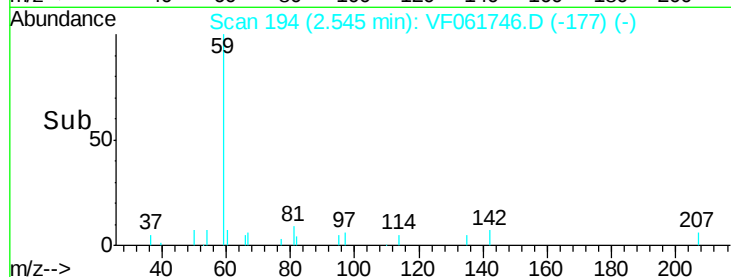
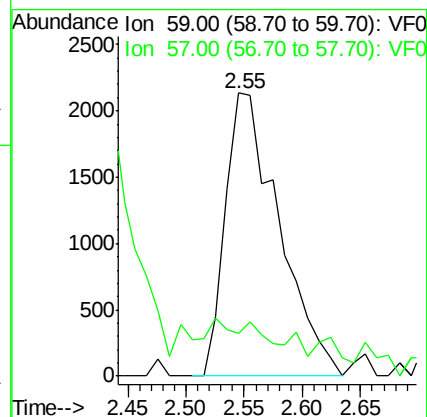
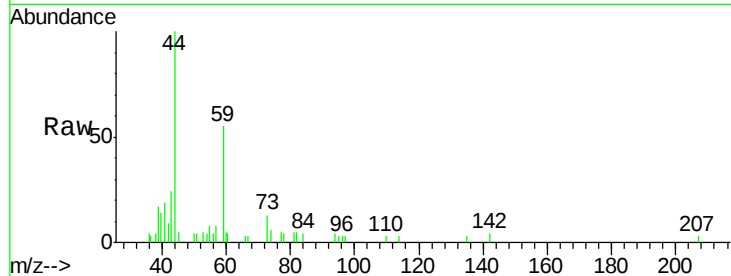


#11

Tert butyl alcohol
Concen: 53.441 ug/l
RT: 2.55 min Scan# 194
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

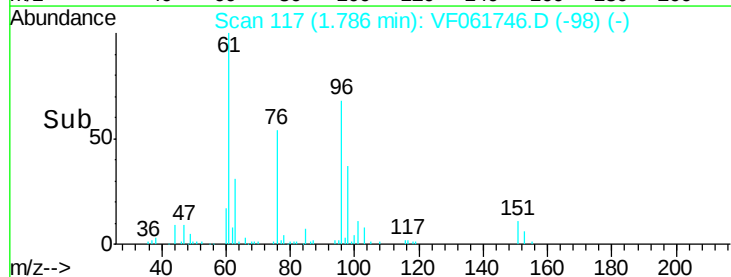
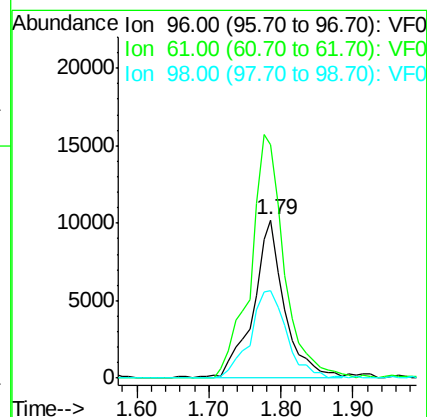
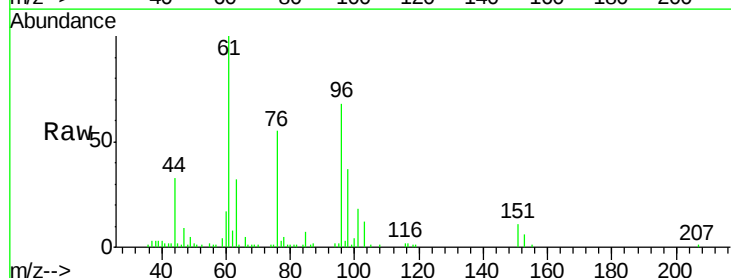
Tot Ion: 59 Resp: 6814
Ion Ratio Lower Upper
59 100
57 15.1 12.5 18.7

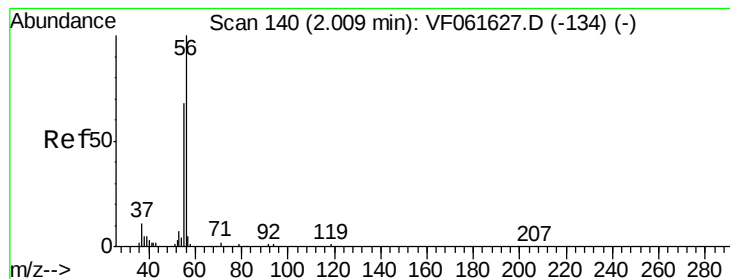


#12

1,1-Dichloroethene
Concen: 12.021 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.02 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 96 Resp: 30948
Ion Ratio Lower Upper
96 100
61 147.0 122.6 184.0
98 54.9 47.2 70.8





#13

Acrolein

Concen: 42.995 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

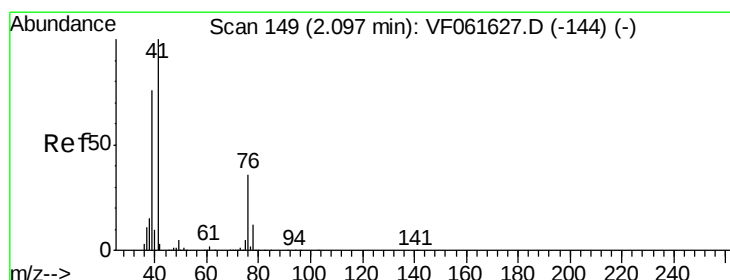
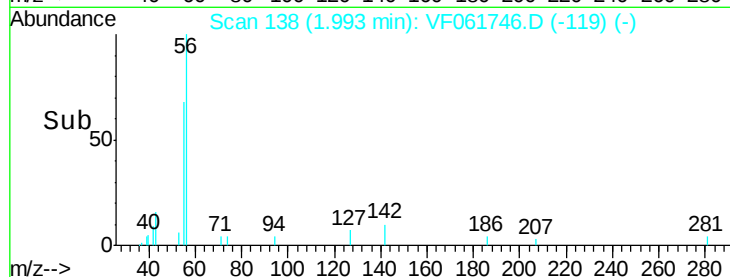
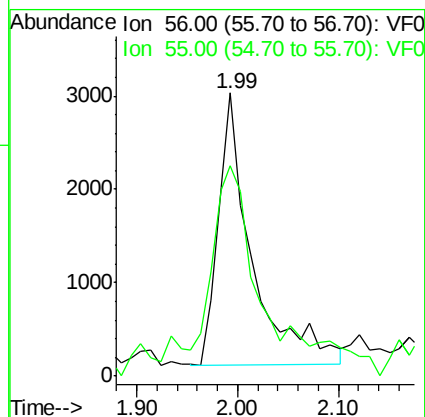
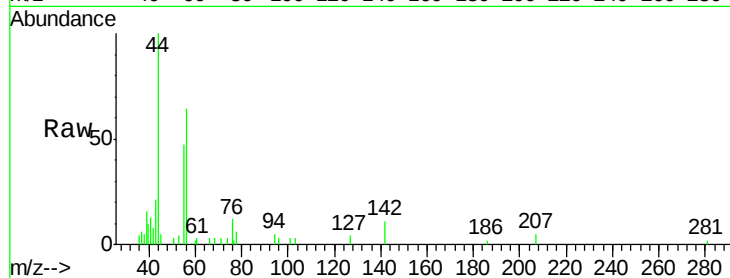
LOQ-SOIL-02-QT1-2019

Tot Ion: 56 Resp: 6890

Ion Ratio Lower Upper

56 100

55 74.5 55.0 82.6



#14

Allyl chloride

Concen: 10.810 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

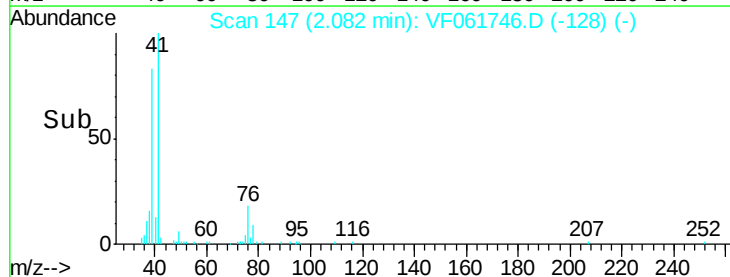
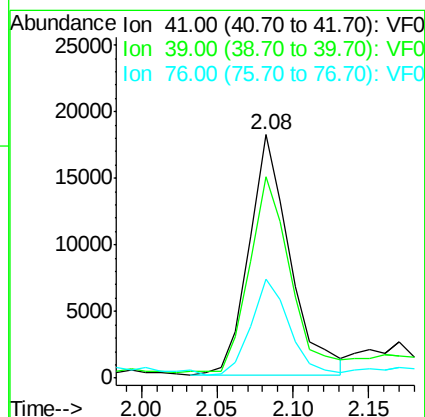
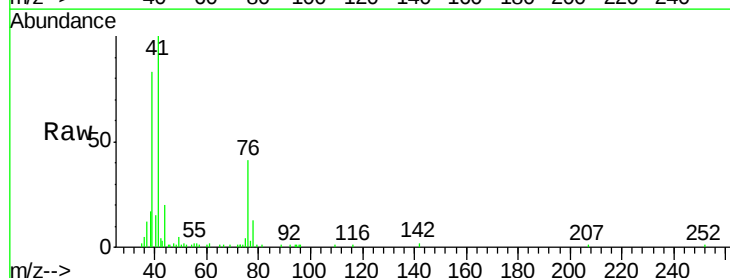
Tgt Ion: 41 Resp: 34150

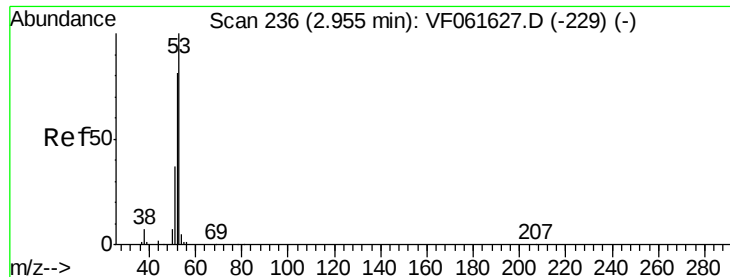
Ion Ratio Lower Upper

41 100

39 82.6 61.6 92.4

76 40.5 30.3 45.5





#15

Acrylonitrile

Concen: 51.574 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

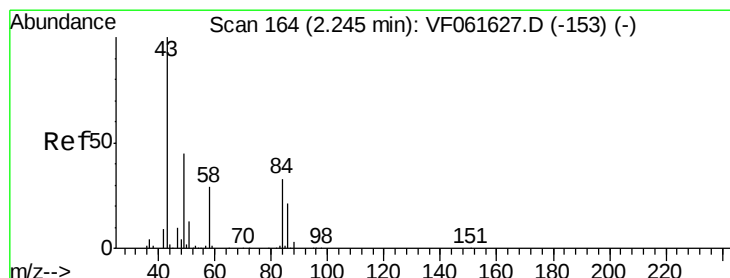
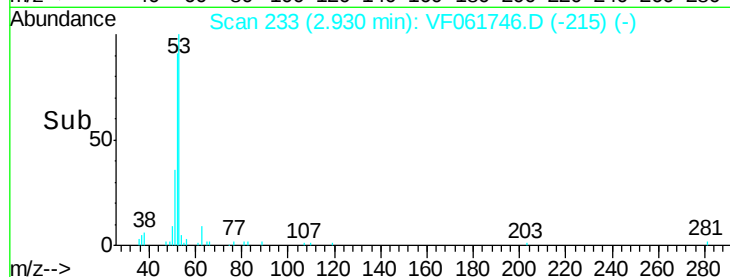
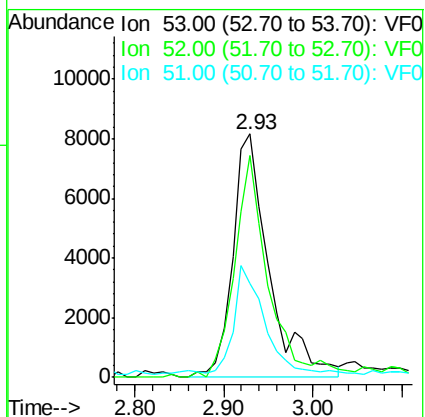
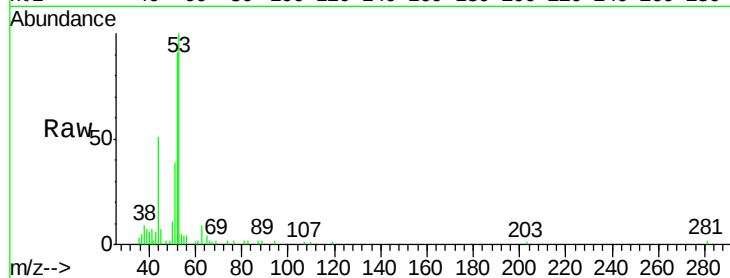
Tot Ion: 53 Resp: 23325

Ion Ratio Lower Upper

53 100

52 91.1 64.6 97.0

51 38.6 29.8 44.8



#16

Acetone

Concen: 62.850 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061746.D

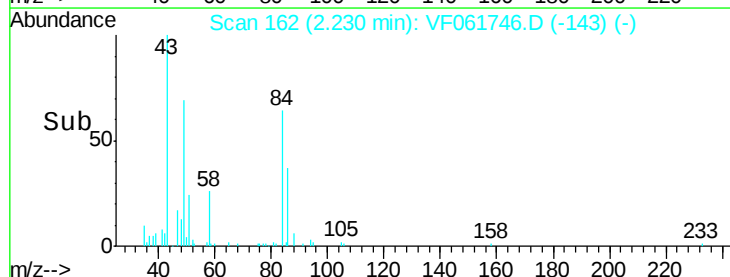
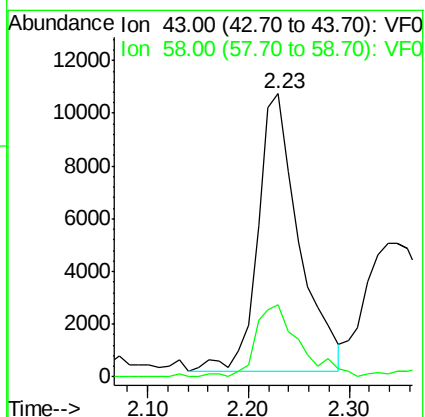
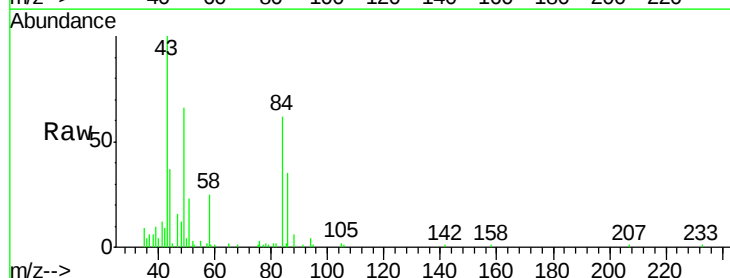
Acq: 26 Feb 2019 17:32

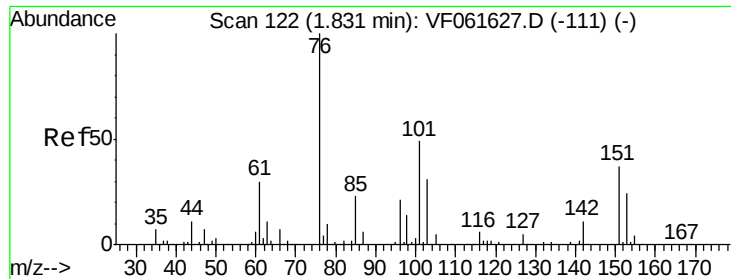
Tgt Ion: 43 Resp: 29709

Ion Ratio Lower Upper

43 100

58 25.3 22.9 34.3

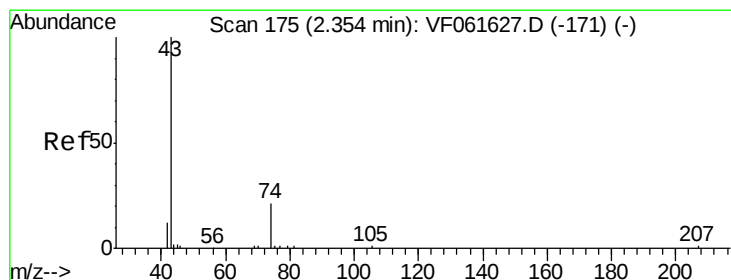
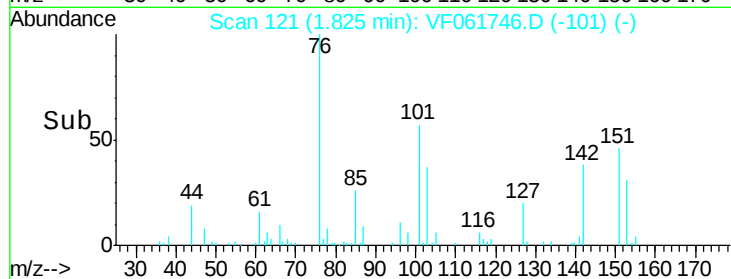
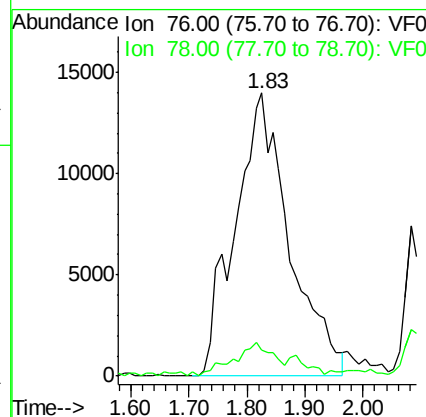
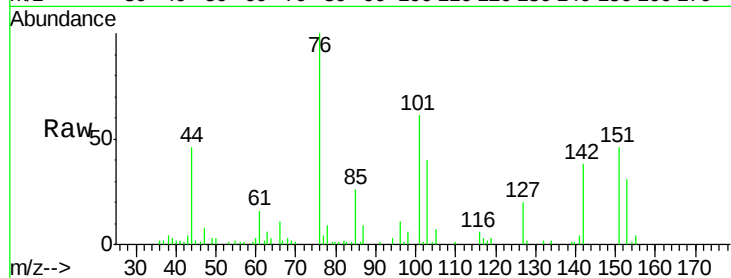




#17
Carbon Disulfide
Concen: 11.278 ug/l
RT: 1.83 min Scan# 121
Delta R.T. -0.01 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

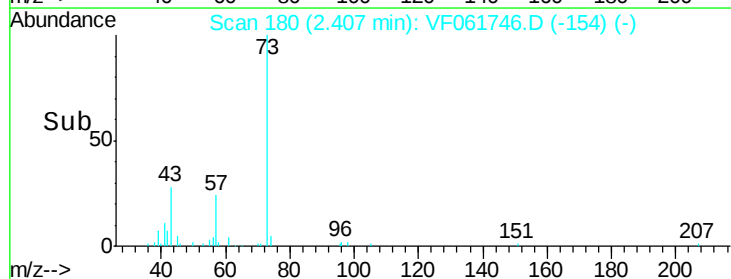
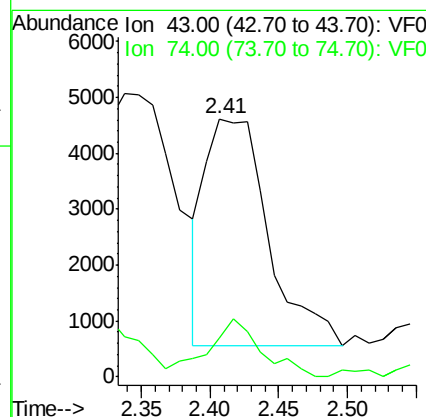
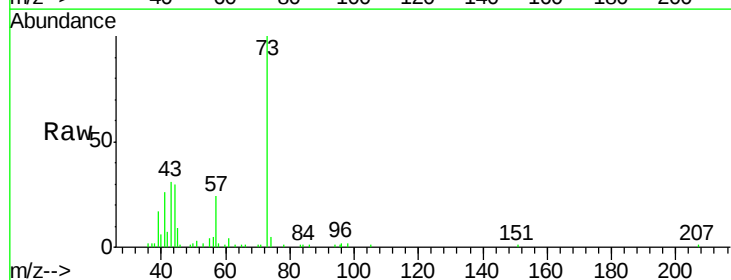
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

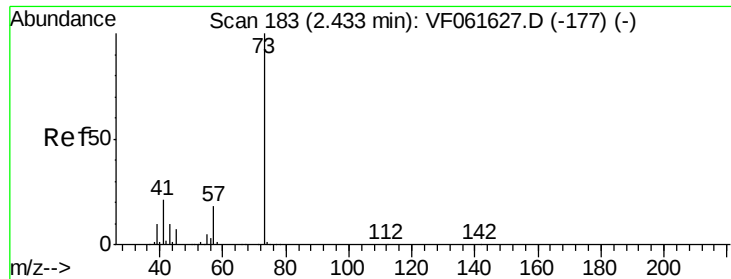
Tot Ion: 76 Resp: 91267
Ion Ratio Lower Upper
76 100
78 9.2 7.9 11.9



#18
Methyl Acetate
Concen: 12.115 ug/l
RT: 2.41 min Scan# 180
Delta R.T. 0.05 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 43 Resp: 12901
Ion Ratio Lower Upper
43 100
74 15.0 14.6 21.8

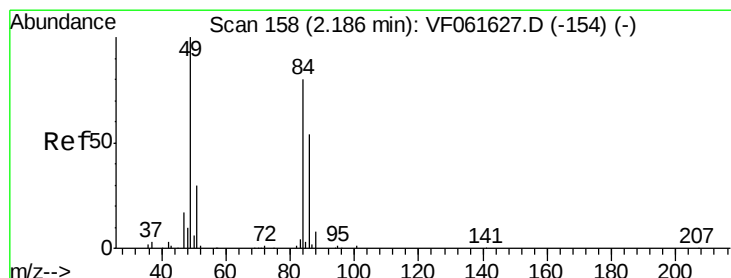
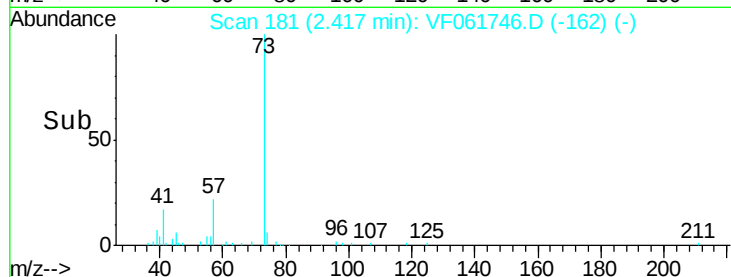
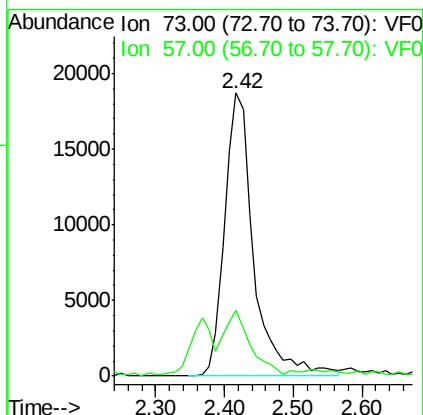
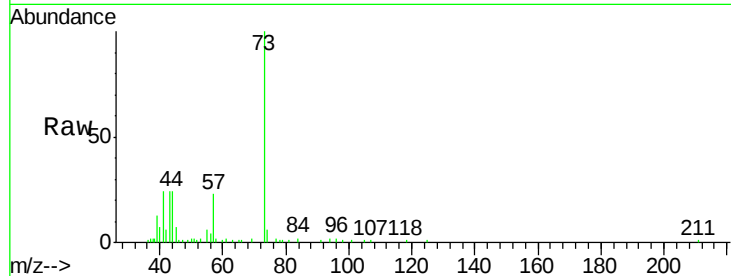




#19
Methyl tert-butyl Ether
Concen: 12.439 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

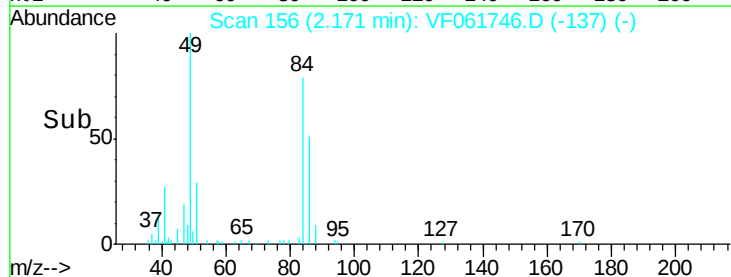
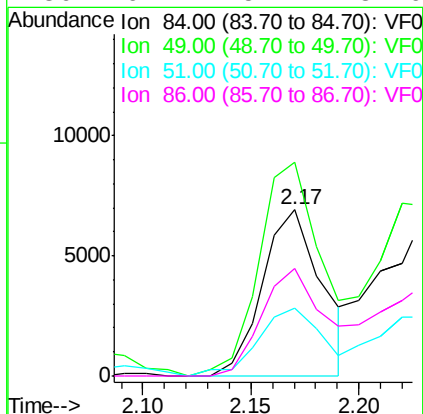
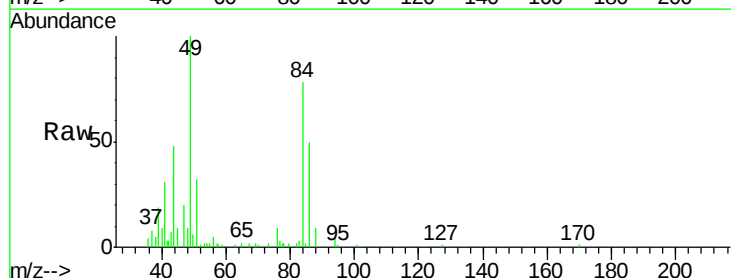
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

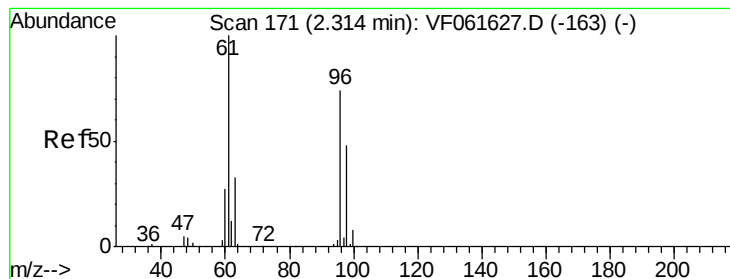
Tot Ion: 73 Resp: 54729
Ion Ratio Lower Upper
73 100
57 23.1 15.8 23.8



#20
Methylene Chloride
Concen: 2.888 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 84 Resp: 13331
Ion Ratio Lower Upper
84 100
49 128.4 101.8 152.8
51 41.1 31.1 46.7
86 64.4 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 11.856 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

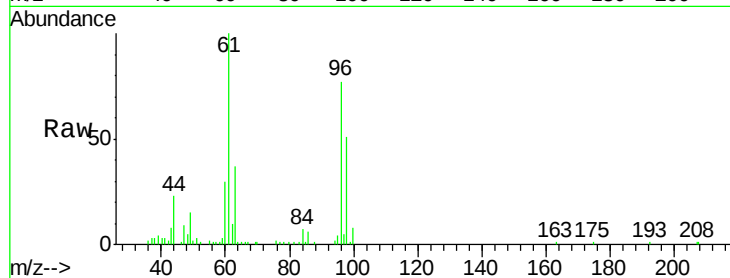
Tot Ion: 96 Resp: 33180

Ion Ratio Lower Upper

96 100

61 129.1 108.2 162.4

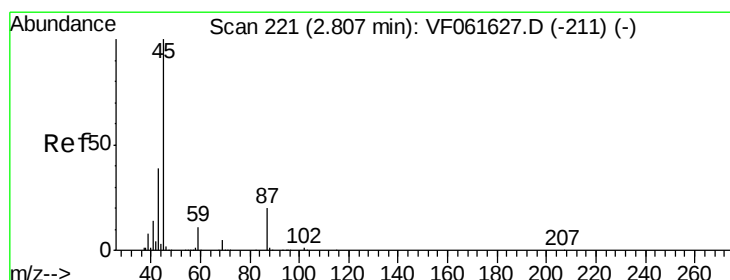
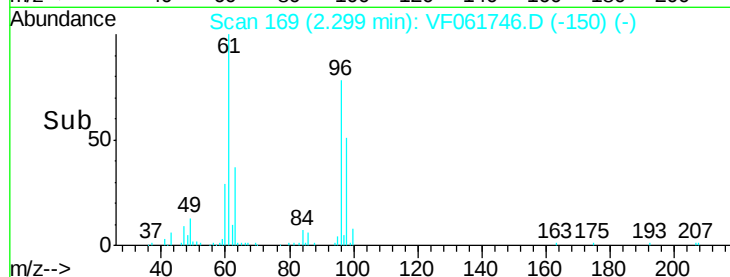
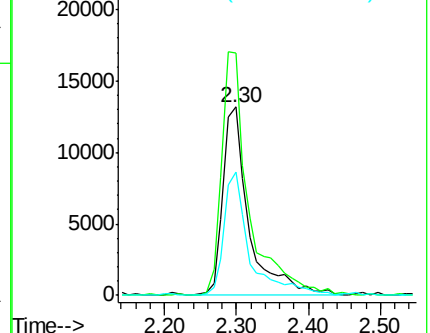
98 65.7 52.2 78.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 11.450 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion: 45 Resp: 86825

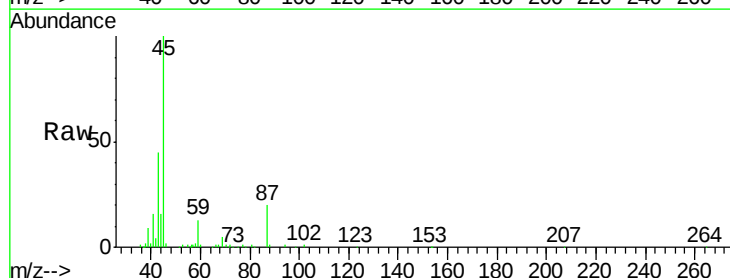
Ion Ratio Lower Upper

45 100

43 45.3 31.4 47.2

87 19.6 16.3 24.5

59 12.7 8.7 13.1

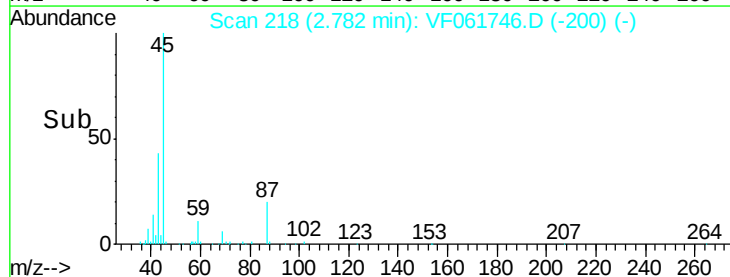
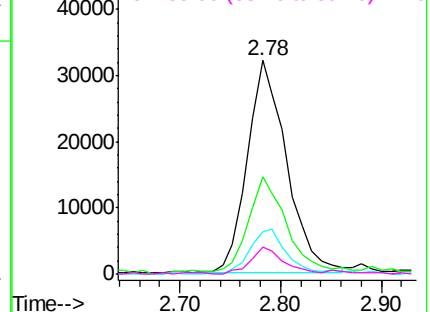


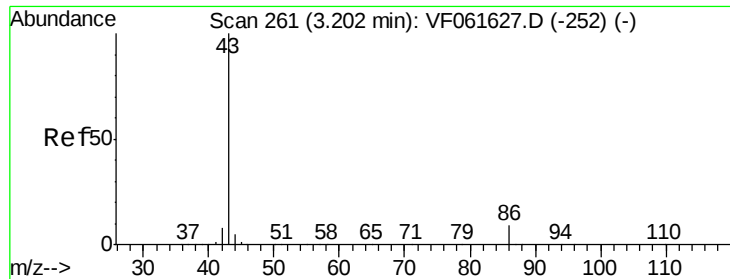
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0

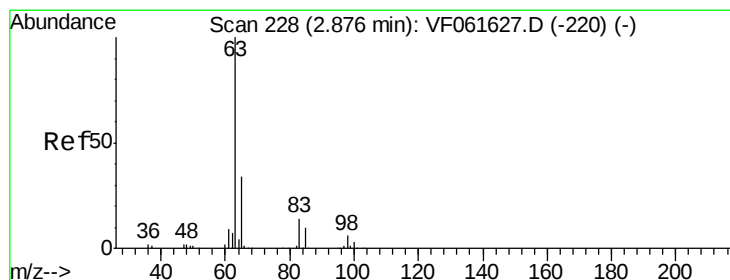
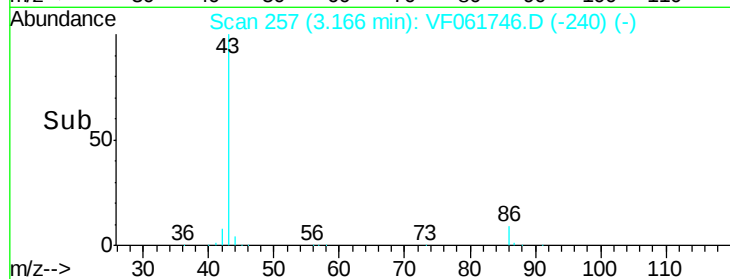
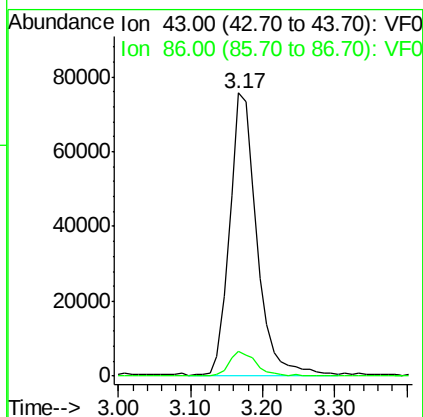
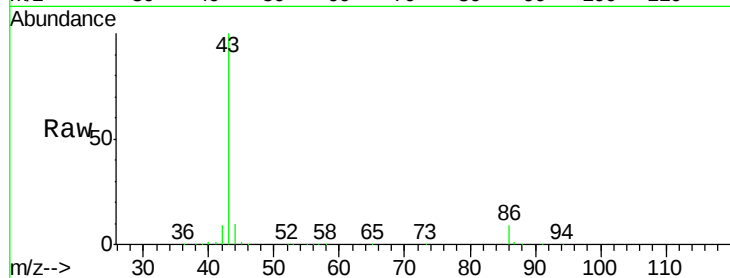




#23
 Vinyl Acetate
 Concen: 53.383 ug/l
 RT: 3.17 min Scan# 257
 Delta R.T. -0.04 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

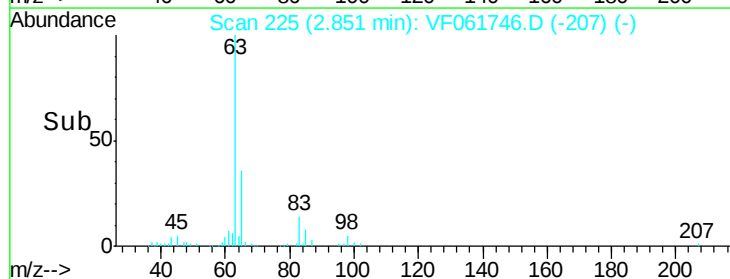
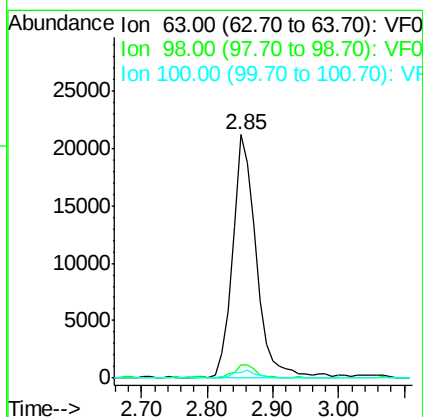
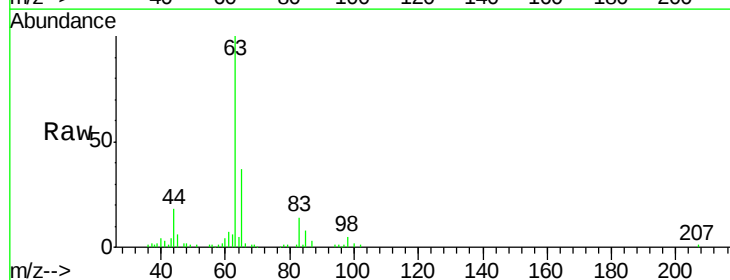
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

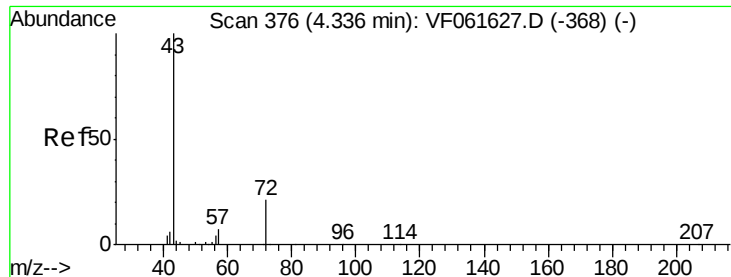
Tot Ion: 43 Resp: 197723
 Ion Ratio Lower Upper
 43 100
 86 8.6 7.5 11.3



#24
 1,1-Dichloroethane
 Concen: 11.701 ug/l
 RT: 2.85 min Scan# 225
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion: 63 Resp: 53695
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.8 8.3
 100 2.0 1.8 5.4





#25

2-Butanone

Concen: 57.815 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

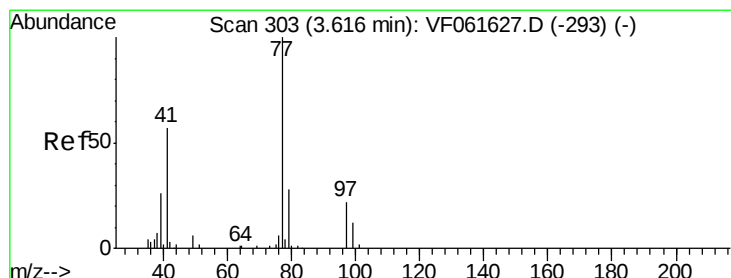
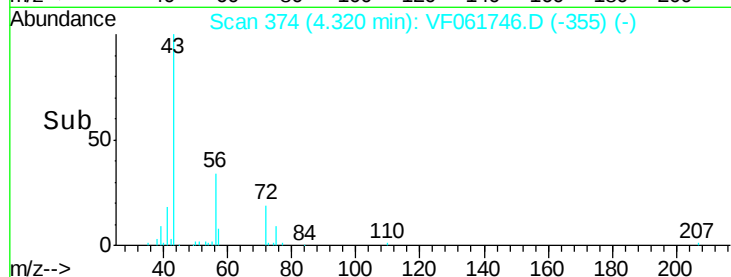
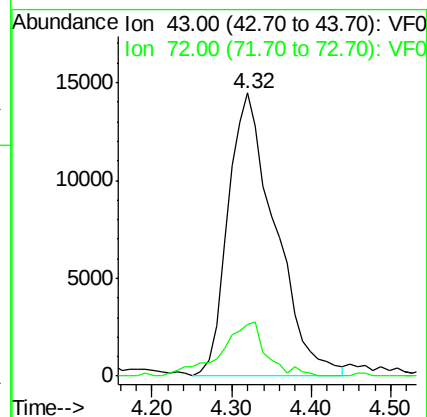
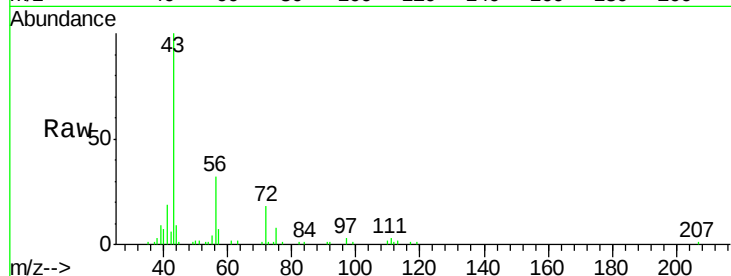
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 59695

Ion Ratio Lower Upper

43 100

72 18.2 17.1 25.7



#26

2,2-Dichloropropane

Concen: 12.811 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.05 min

Lab File: VF061746.D

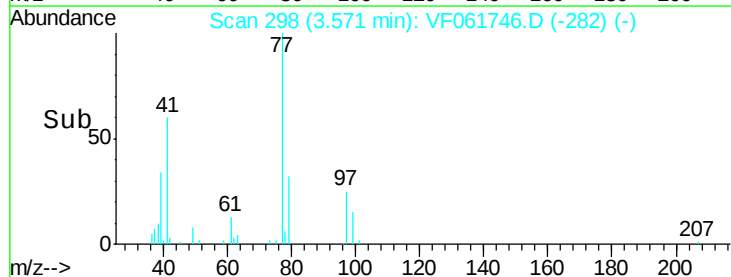
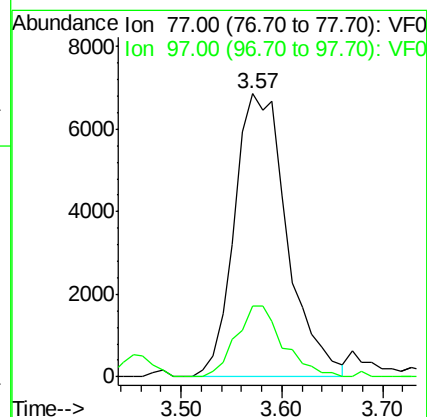
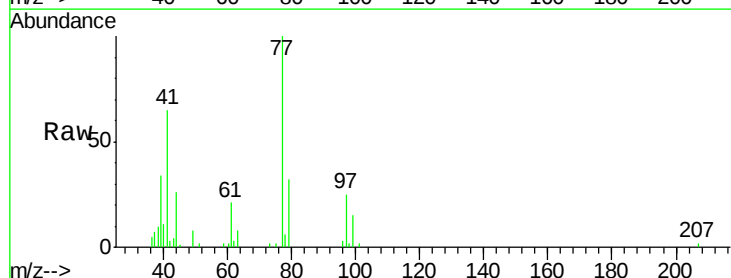
Acq: 26 Feb 2019 17:32

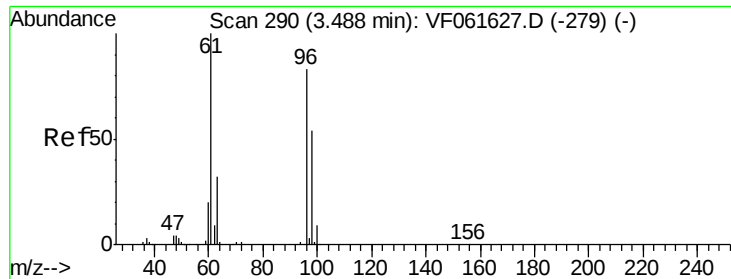
Tgt Ion: 77 Resp: 24903

Ion Ratio Lower Upper

77 100

97 25.0 11.7 35.0



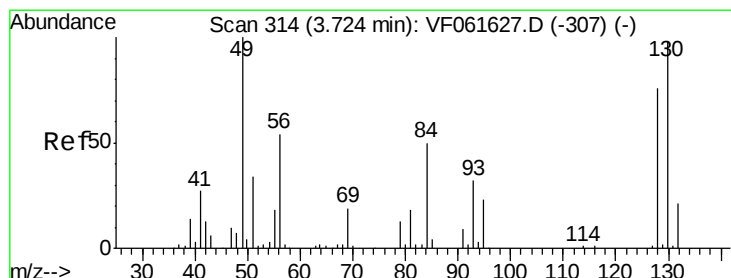
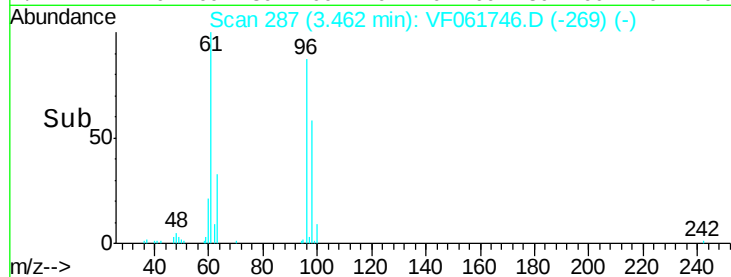
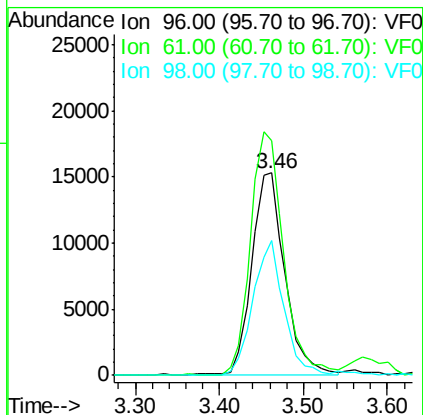
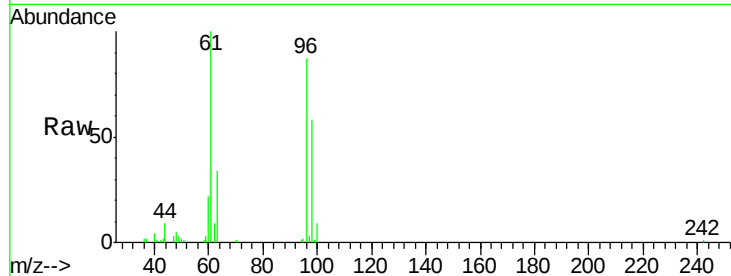


#27

cis-1,2-Dichloroethene
 Concen: 11.554 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

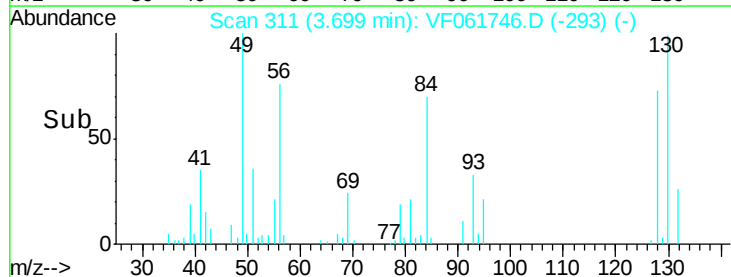
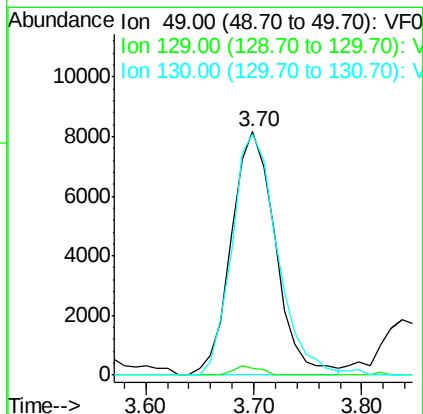
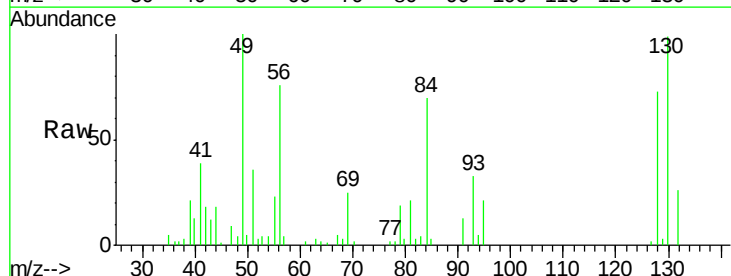
Tot Ion: 96 Resp: 42441
 Ion Ratio Lower Upper
 96 100
 61 115.6 0.0 241.6
 98 66.6 0.0 130.2

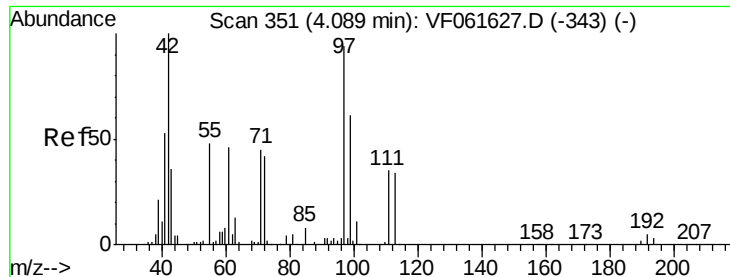


#28

Bromochloromethane
 Concen: 10.521 ug/l
 RT: 3.70 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion: 49 Resp: 23167
 Ion Ratio Lower Upper
 49 100
 129 2.7 0.0 3.4
 130 98.8 77.7 116.5

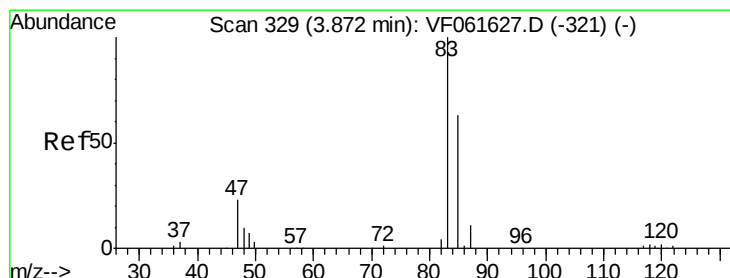
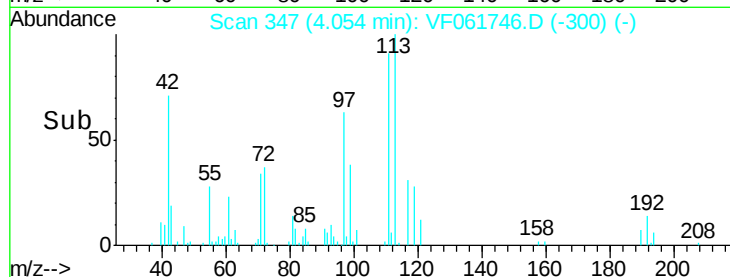
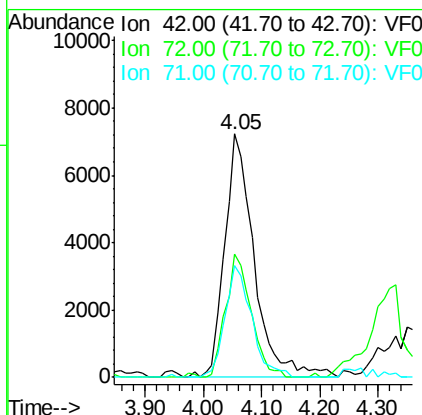
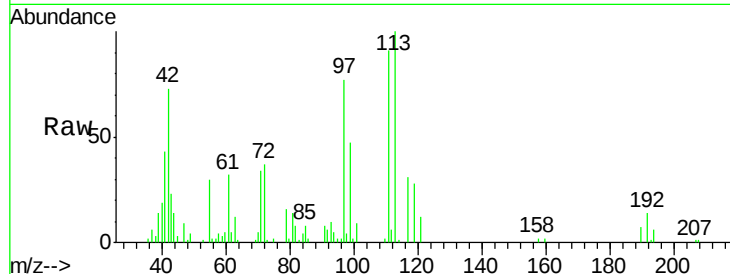




#29
Tetrahydrofuran
Concen: 54.357 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

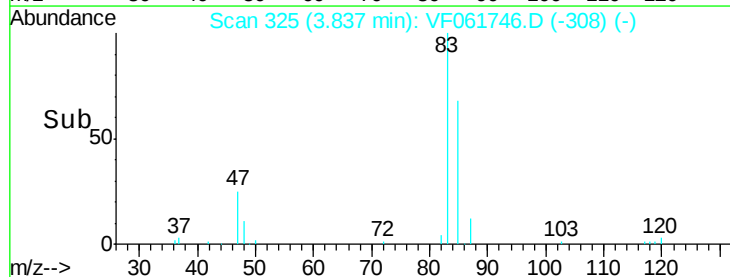
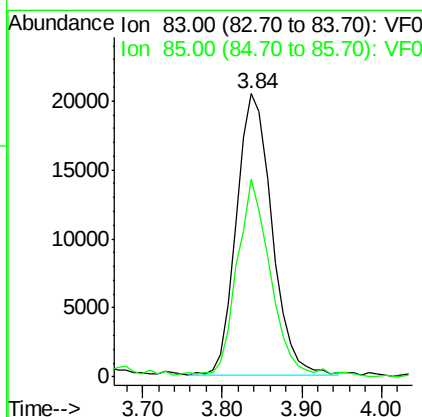
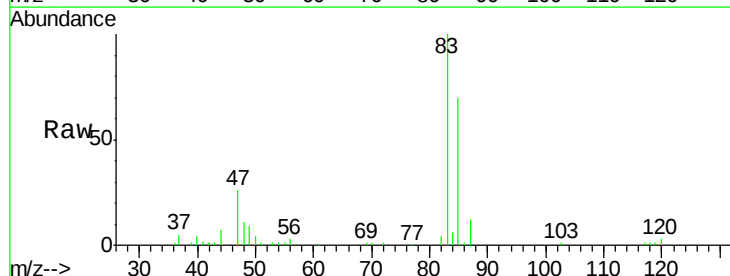
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

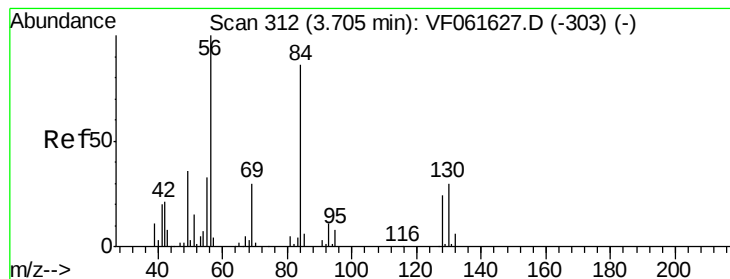
Tot Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.2	52.8
71	41.5	32.9	49.3



#30
Chloroform
Concen: 12.078 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.7	51.1	76.7





#31

Cyclohexane

Concen: 11.794 ug/l

RT: 3.67 min Scan# 308

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

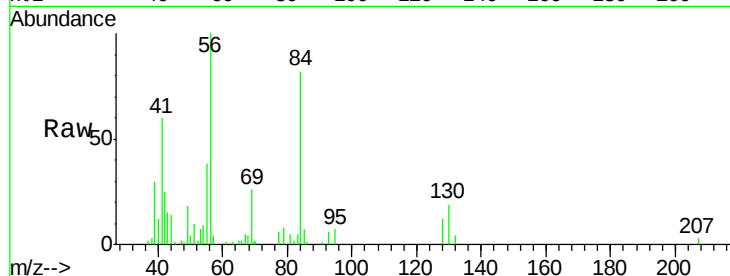
Tot Ion: 56 Resp: 58590

Ion Ratio Lower Upper

56 100

69 25.5 23.8 35.8

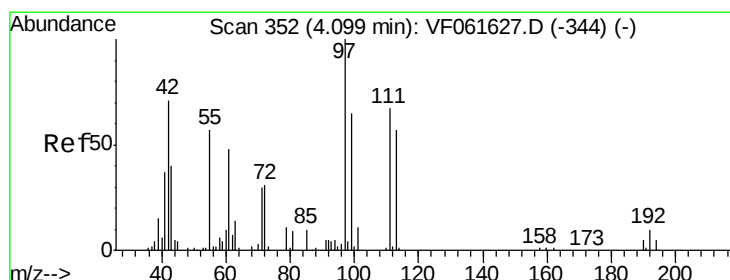
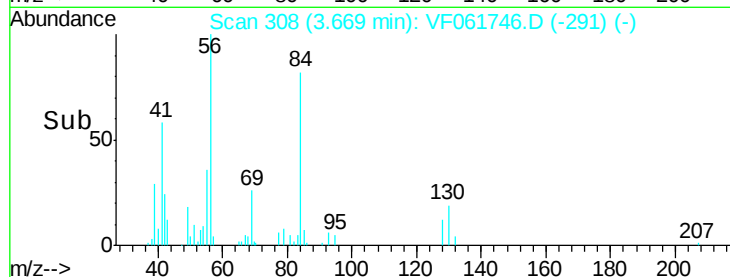
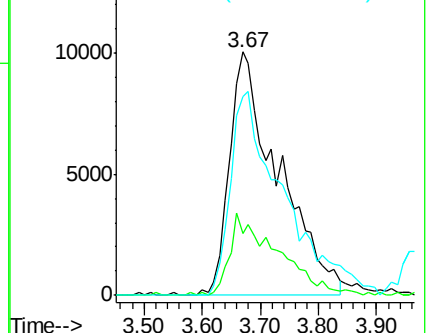
84 81.8 68.6 103.0



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: 12.846 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

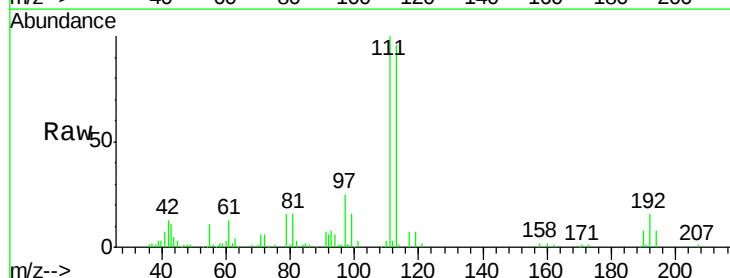
Tgt Ion: 97 Resp: 43917

Ion Ratio Lower Upper

97 100

99 64.7 52.2 78.2

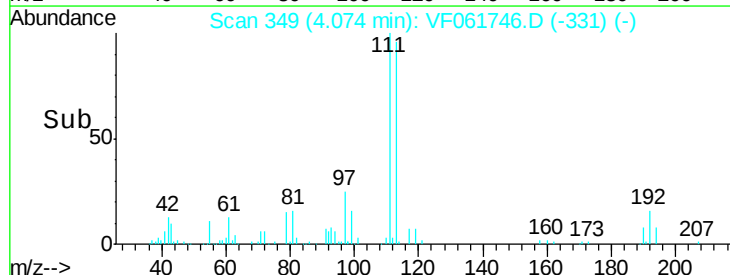
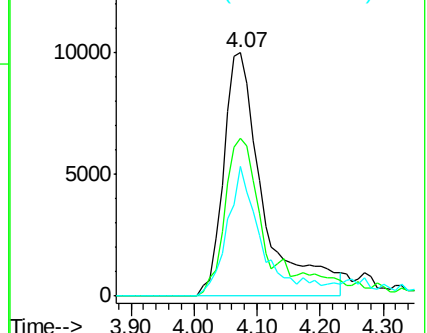
61 53.4 39.2 58.8

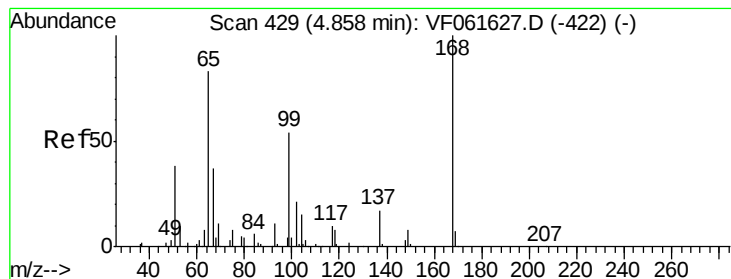


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 55.923 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

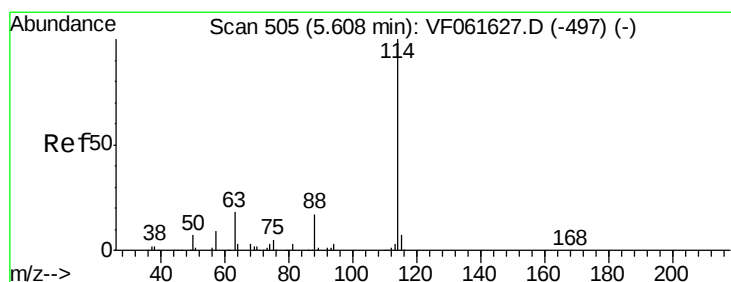
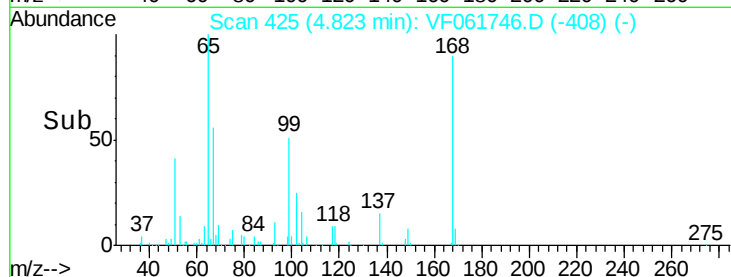
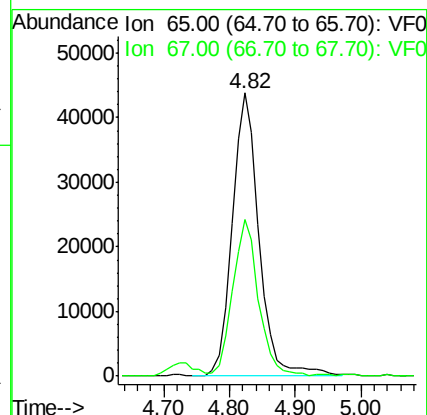
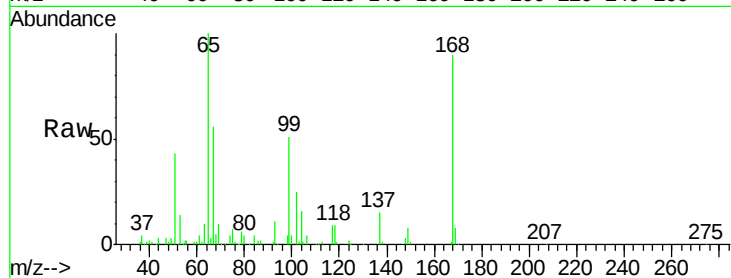
LOQ-SOIL-02-QT1-2019

Tot Ion: 65 Resp: 123207

Ion Ratio Lower Upper

65 100

67 55.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

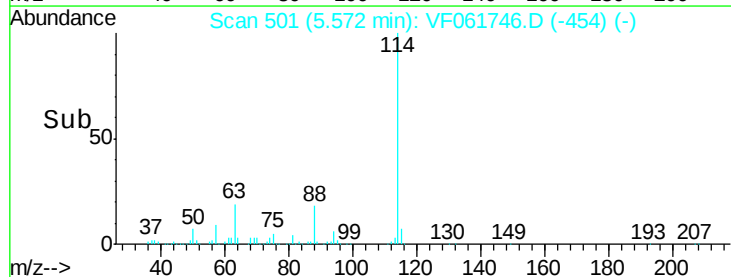
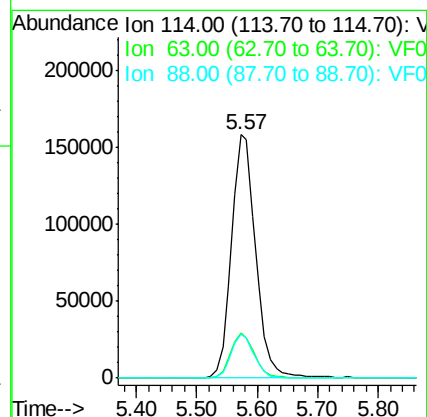
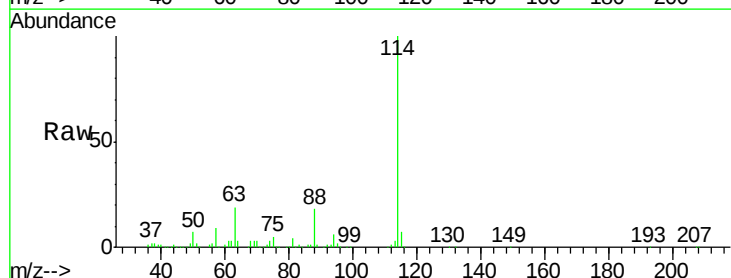
Tgt Ion: 114 Resp: 439272

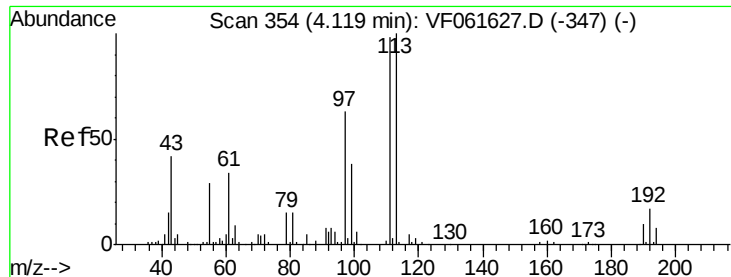
Ion Ratio Lower Upper

114 100

63 18.7 0.0 36.6

88 18.2 0.0 34.4





#35

Dibromofluoromethane

Concen: 56.670 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

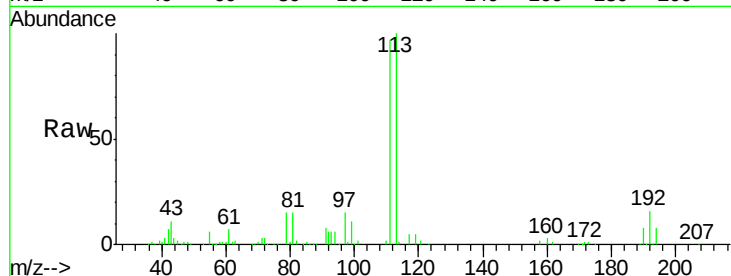
Tot Ion:113 Resp: 184862

Ion Ratio Lower Upper

113 100

111 96.7 78.8 118.2

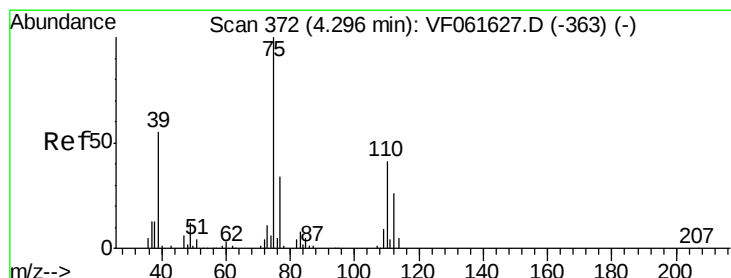
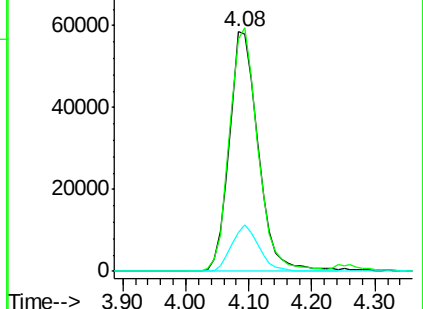
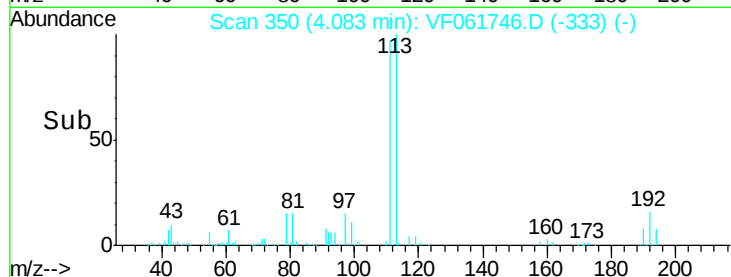
192 16.7 13.4 20.0



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: 11.726 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

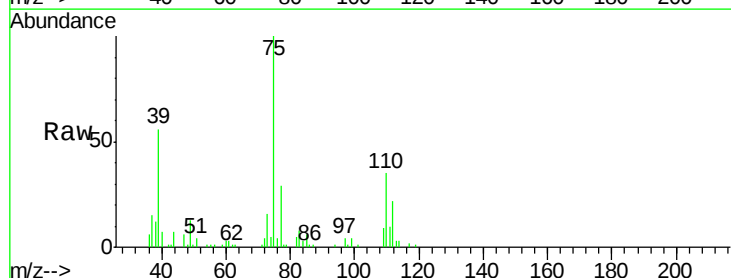
Tgt Ion: 75 Resp: 51028

Ion Ratio Lower Upper

75 100

110 35.2 20.5 61.6

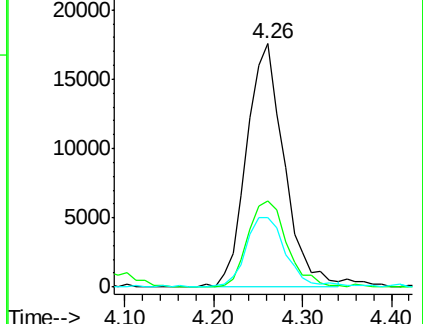
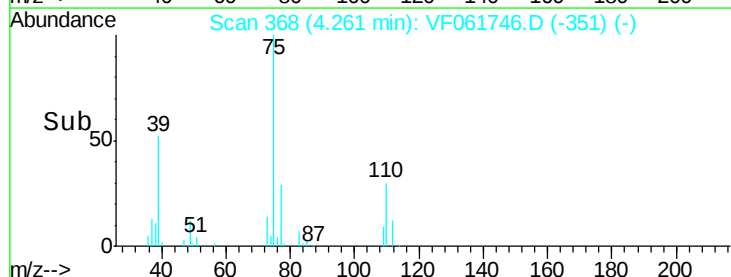
77 28.7 27.0 40.4

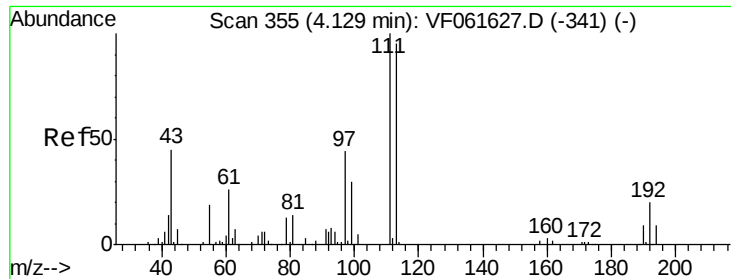


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

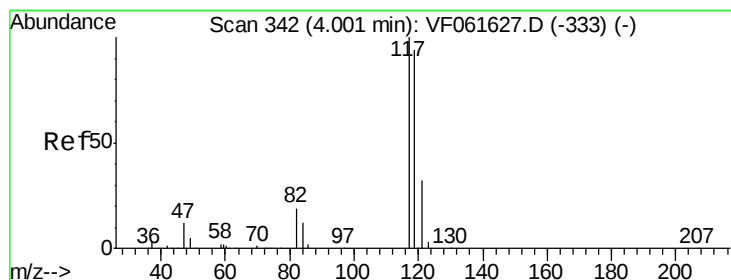
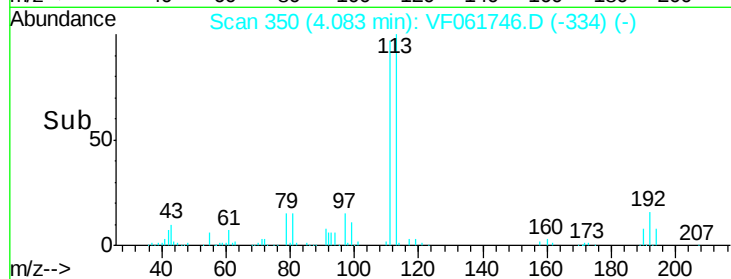
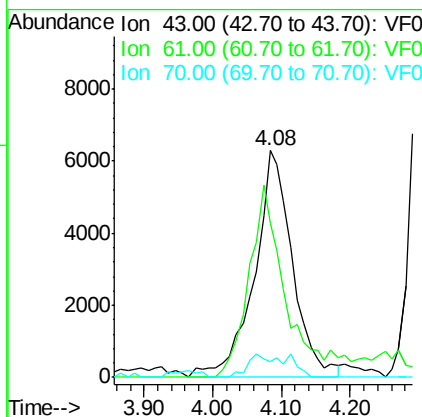
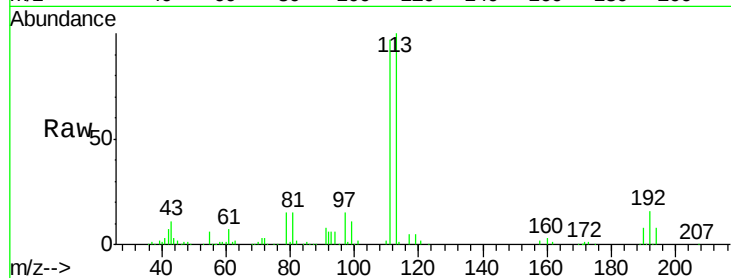




#37
Ethyl Acetate
Concen: 11.993 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.05 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

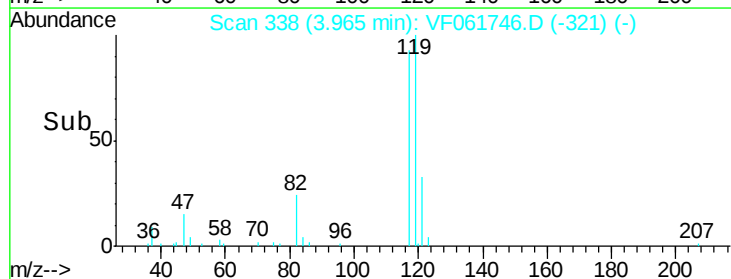
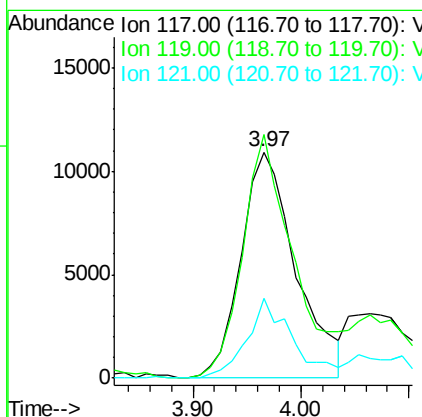
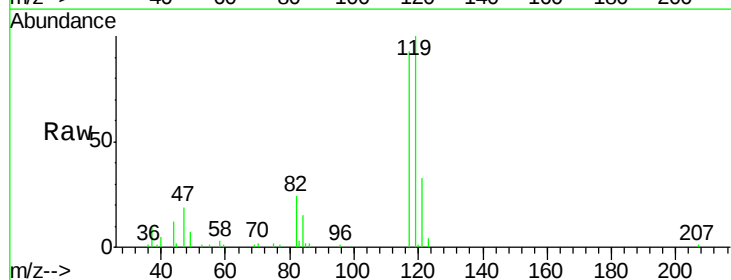
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

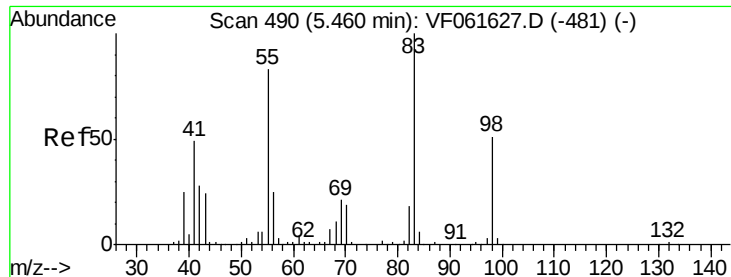
Tot Ion: 43 Resp: 24240
Ion Ratio Lower Upper
43 100
61 68.0 45.7 68.5
70 7.1 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 12.839 ug/l
RT: 3.97 min Scan# 338
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 117 Resp: 38577
Ion Ratio Lower Upper
117 100
119 107.9 75.6 113.4
121 35.4 25.2 37.8

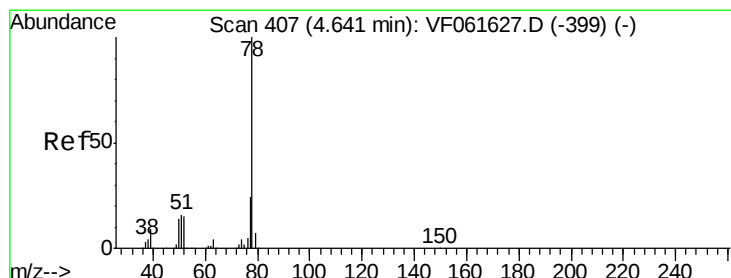
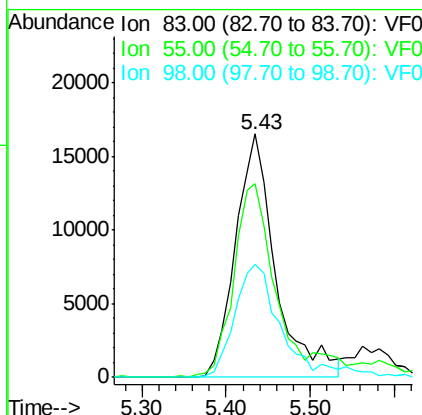
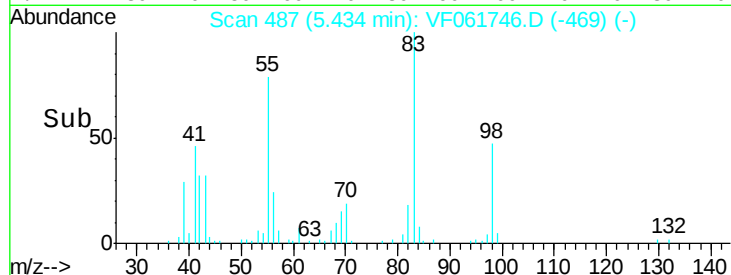
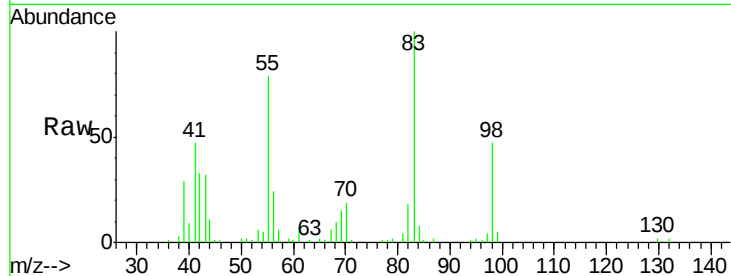




#39
Methvlcvclohexane
Concen: 10.687 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

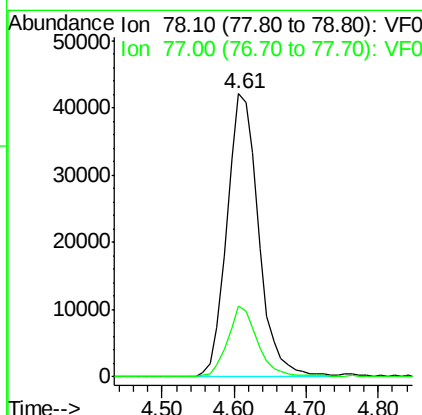
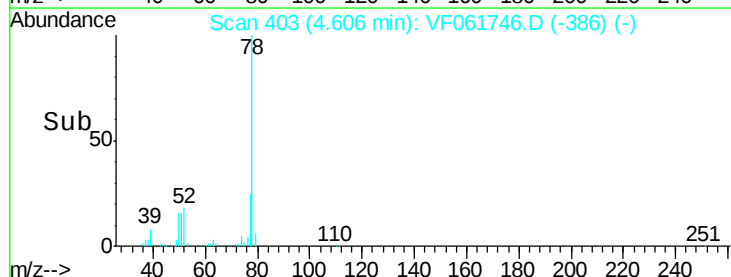
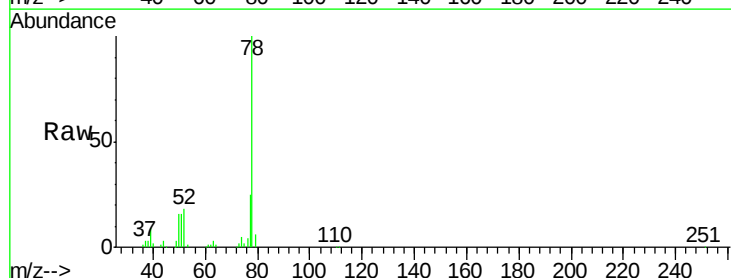
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

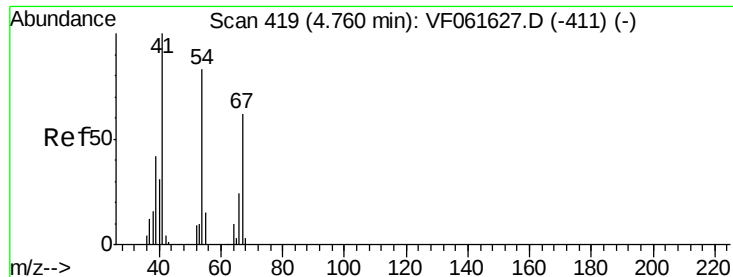
Tot Ion: 83 Resp: 55000
Ion Ratio Lower Upper
83 100
55 79.3 66.6 99.8
98 46.7 40.4 60.6



#40
Benzene
Concen: 11.343 ug/l
RT: 4.61 min Scan# 403
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 78 Resp: 129111
Ion Ratio Lower Upper
78 100
77 25.2 19.0 28.6

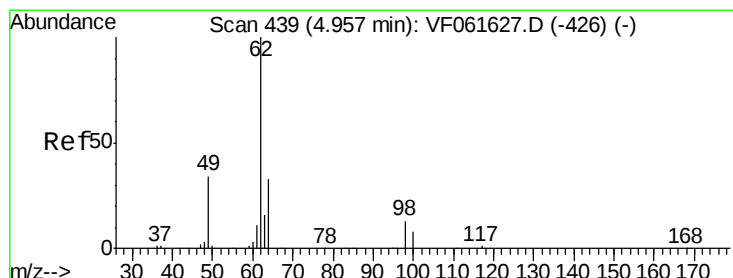
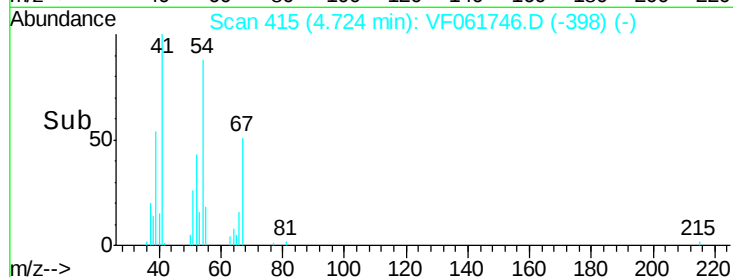
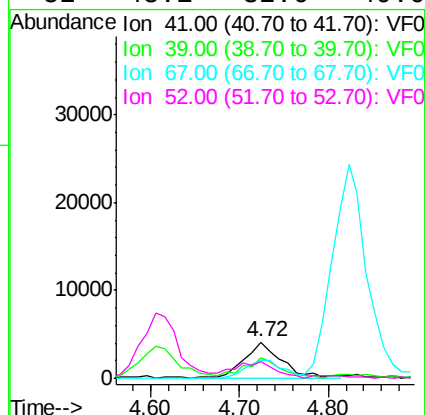
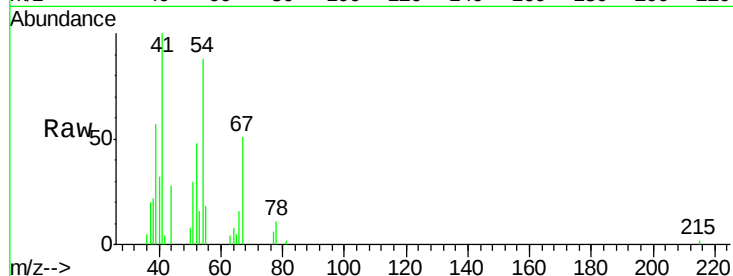




#41
Methacrylonitrile
Concen: 11.866 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

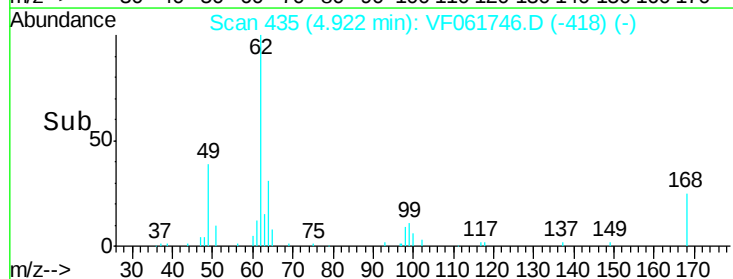
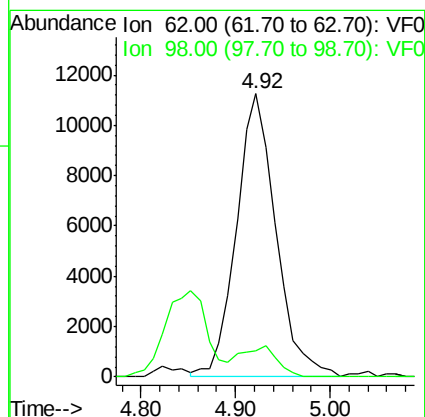
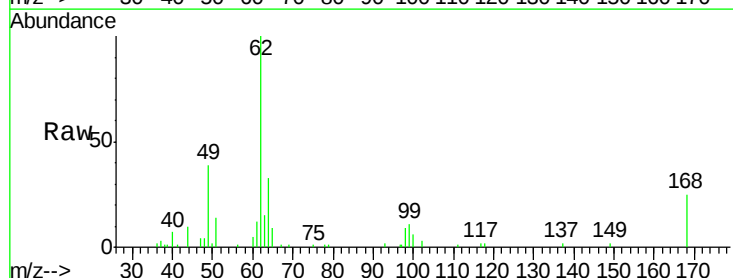
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

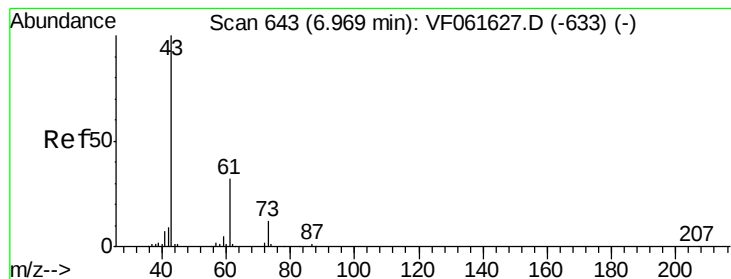
Tot Ion:	41	Resp:	12265
Ion	Ratio	Lower	Upper
41	100		
39	56.6	45.3	67.9
67	50.9	49.3	73.9
52	48.1	32.6	49.0



#42
1,2-Dichloroethane
Concen: 11.957 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion:	62	Resp:	32555
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	26.0



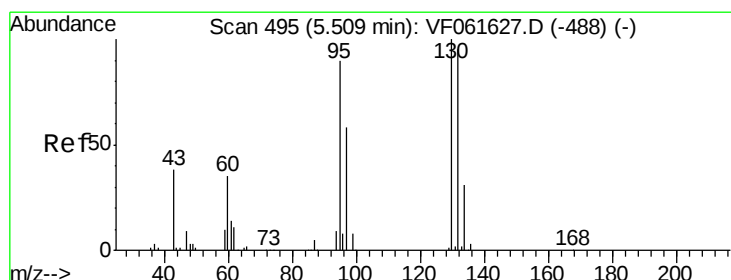
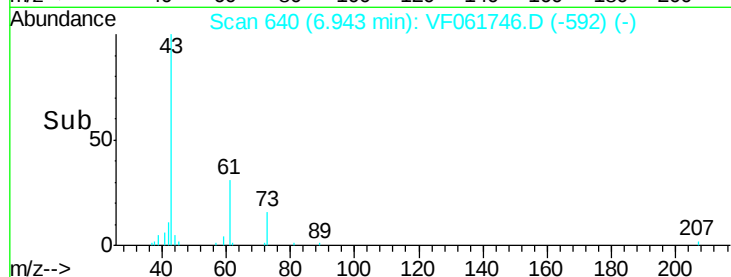
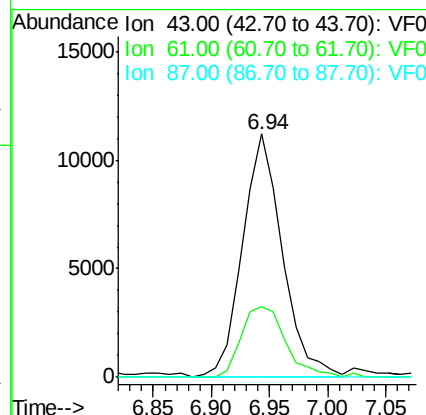
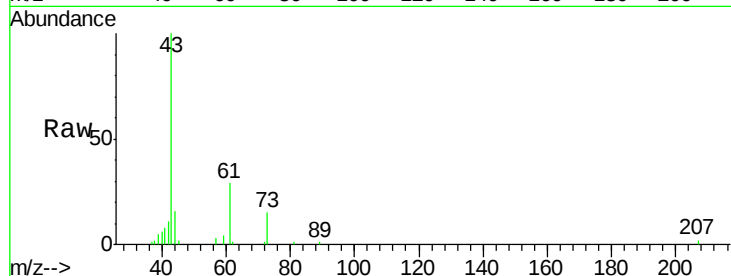


#43

Isopropyl Acetate
 Concen: 11.154 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

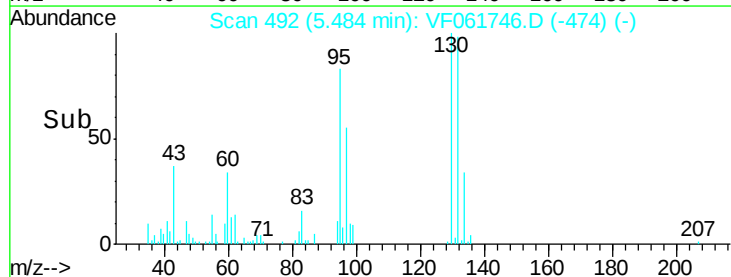
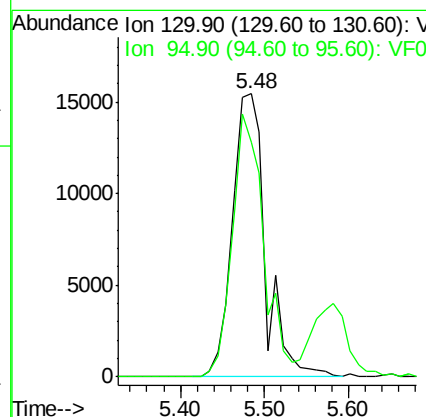
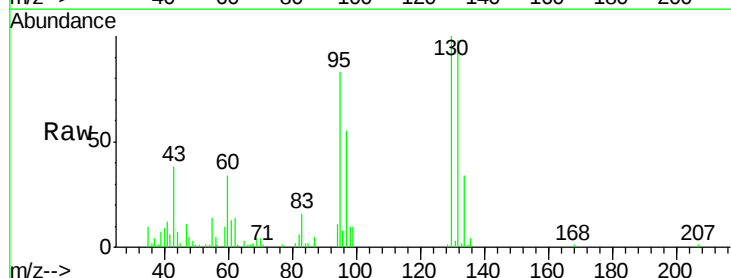
Tot Ion: 43 Resp: 26685
 Ion Ratio Lower Upper
 43 100
 61 29.2 25.8 38.6
 87 0.0 0.4 0.6#

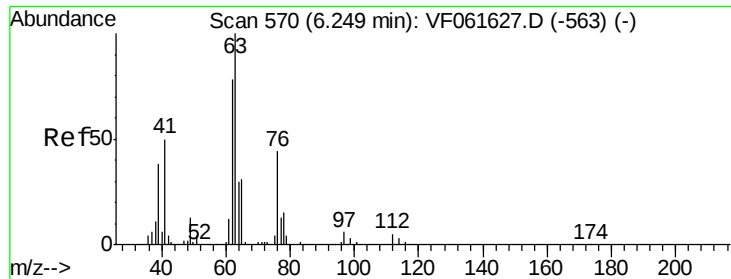


#44

Trichloroethene
 Concen: 11.458 ug/l
 RT: 5.48 min Scan# 492
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion: 130 Resp: 42172
 Ion Ratio Lower Upper
 130 100
 95 83.0 0.0 179.4





#45

1,2-Dichloropropane

Concen: 11.984 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

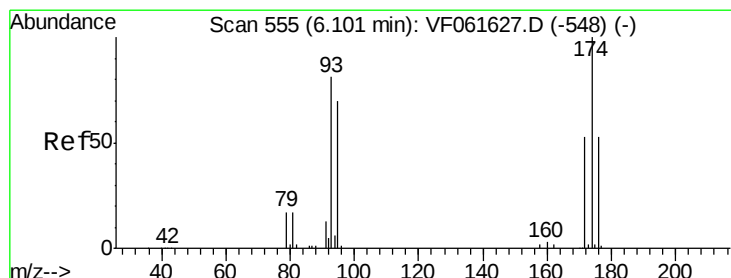
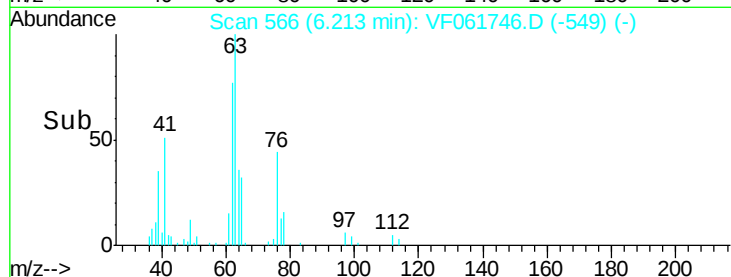
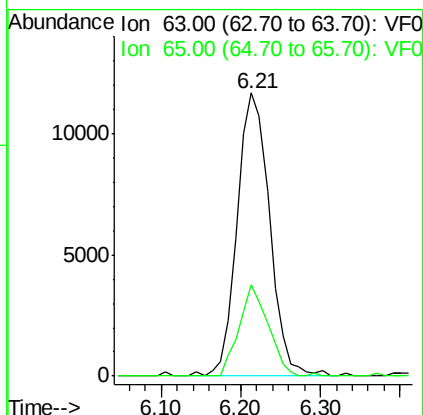
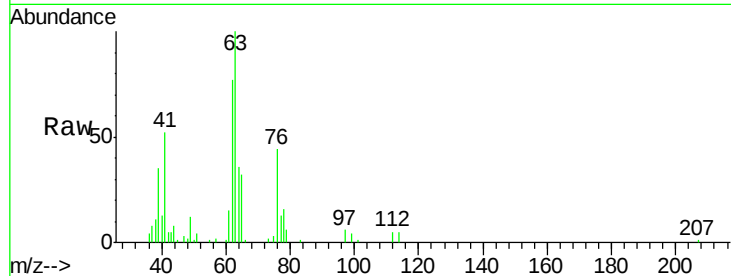
LOQ-SOIL-02-QT1-2019

Tot Ion: 63 Resp: 32970

Ion Ratio Lower Upper

63 100

65 32.3 24.9 37.3



#46

Dibromomethane

Concen: 11.297 ug/l

RT: 6.07 min Scan# 551

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

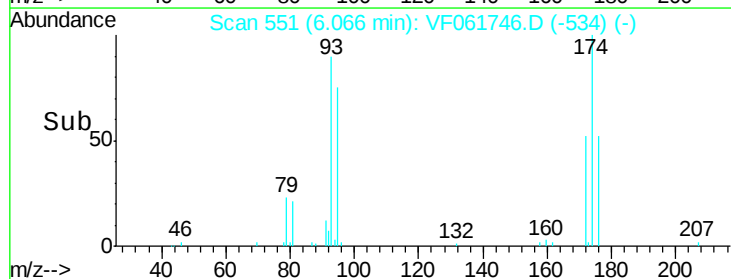
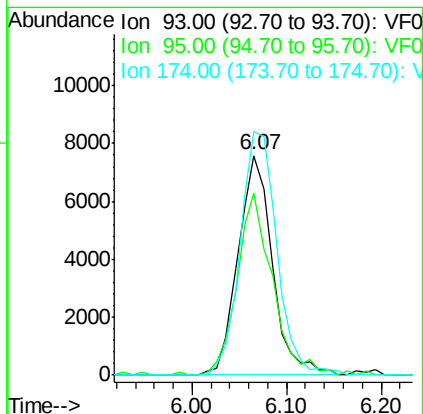
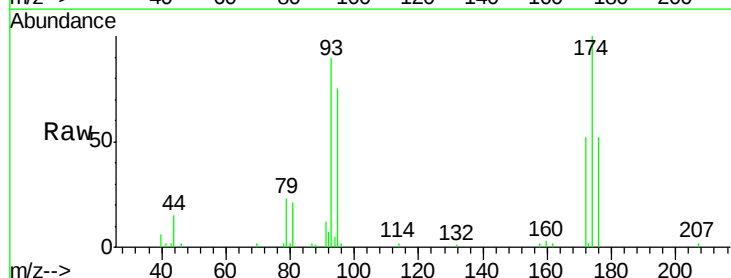
Tgt Ion: 93 Resp: 19136

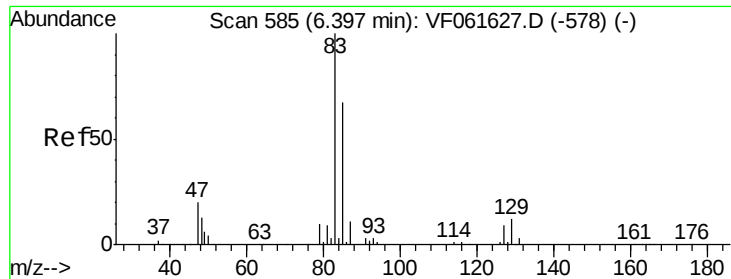
Ion Ratio Lower Upper

93 100

95 82.6 69.0 103.6

174 110.8 99.3 148.9





#47

Bromodichloromethane

Concen: 12.216 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

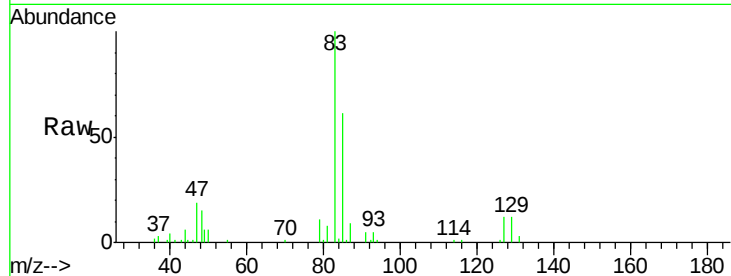
Tot Ion: 83 Resp: 45316

Ion Ratio Lower Upper

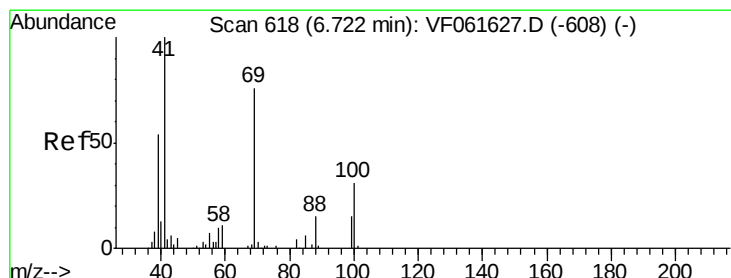
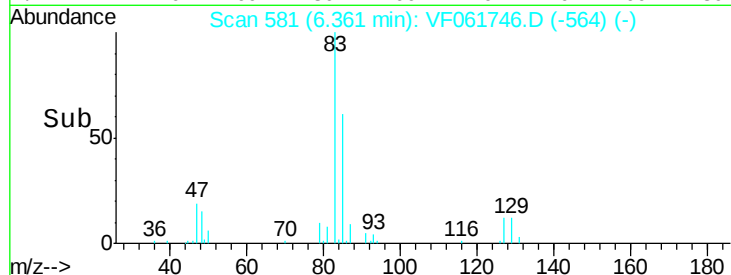
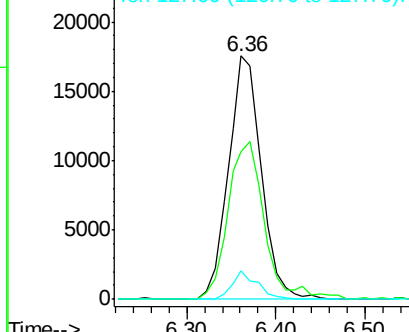
83 100

85 60.6 53.4 80.2

127 11.9 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: 11.628 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

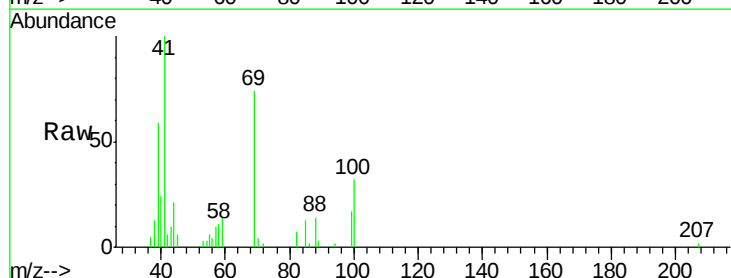
Tgt Ion: 41 Resp: 16741

Ion Ratio Lower Upper

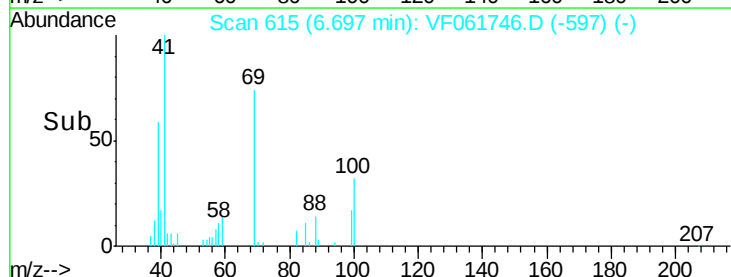
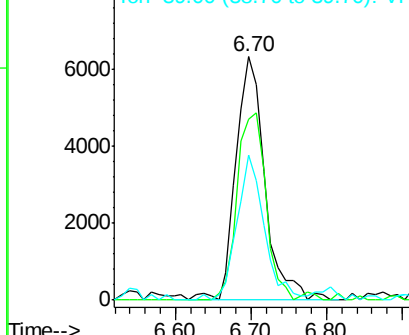
41 100

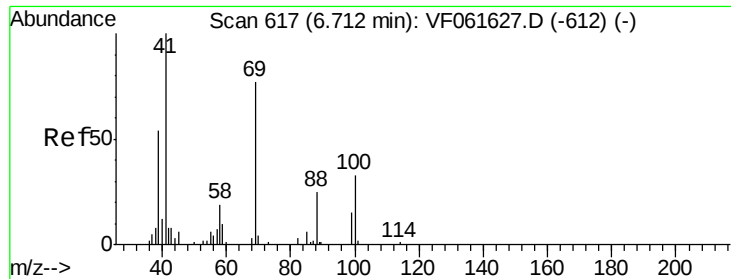
69 74.1 60.4 90.6

39 59.5 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

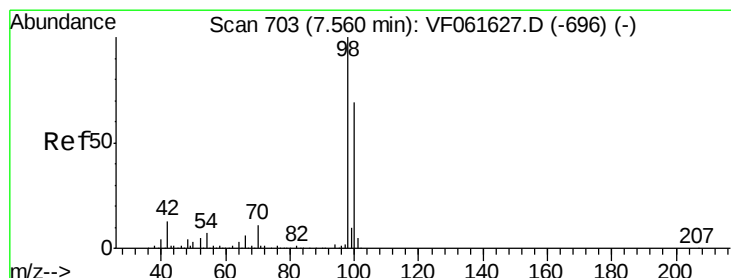
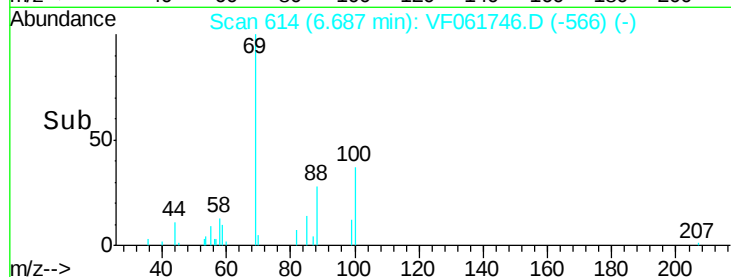
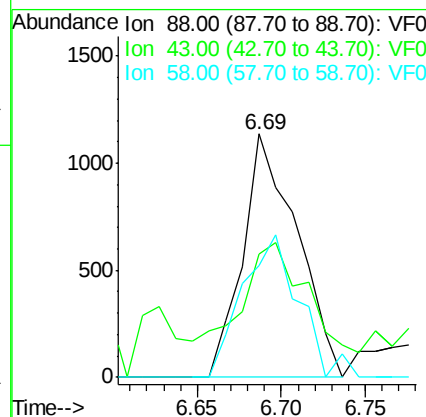
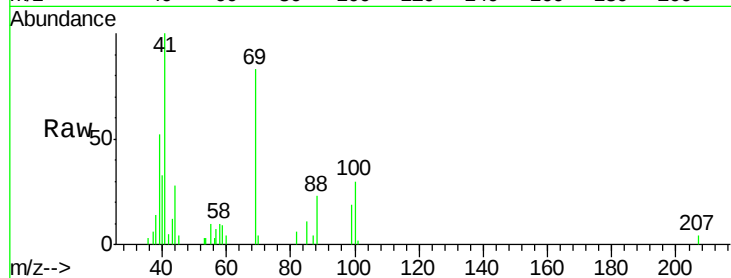




#49
 1,4-Dioxane
 Concen: 187.745 ug/l
 RT: 6.69 min Scan# 614
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

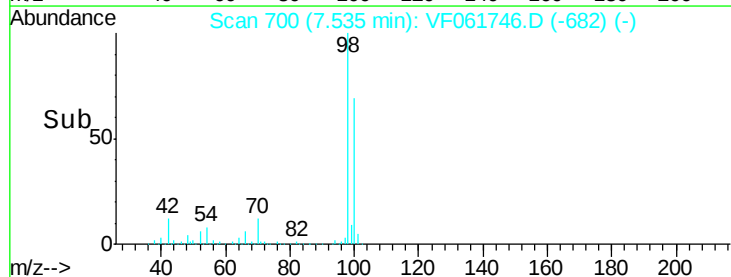
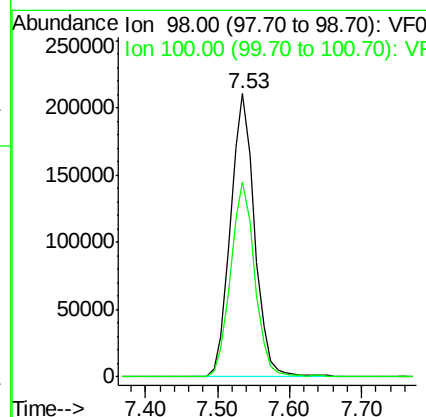
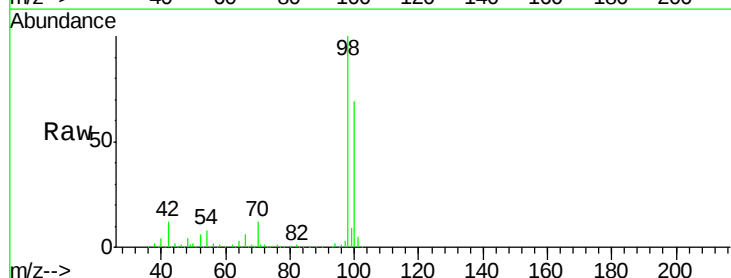
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

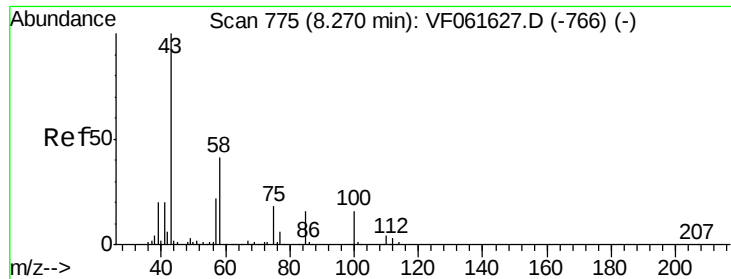
Tot Ion: 88 Resp: 2541
 Ion Ratio Lower Upper
 88 100
 43 50.8 32.3 48.5#
 58 45.9 59.4 89.2#



#50
 Toluene-d8
 Concen: 52.443 ug/l
 RT: 7.53 min Scan# 700
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion: 98 Resp: 491780
 Ion Ratio Lower Upper
 98 100
 100 69.0 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 56.624 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

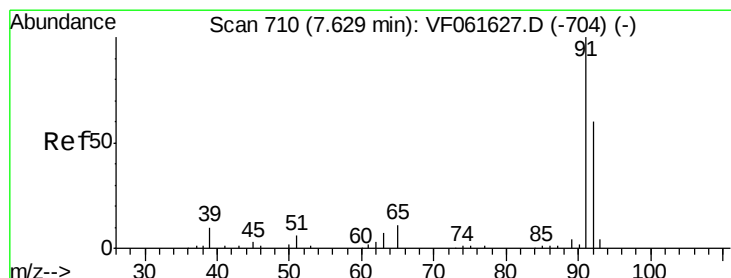
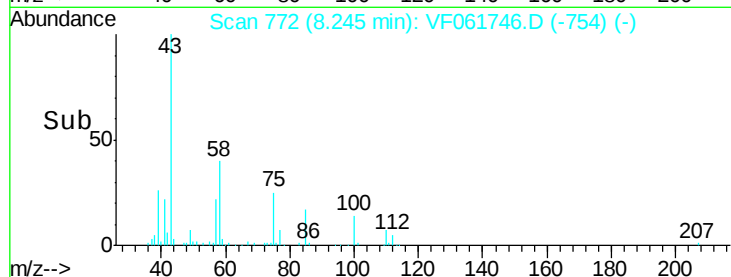
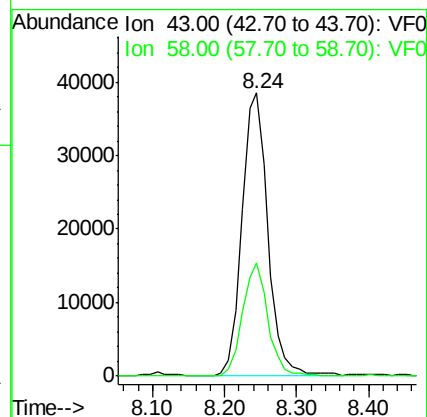
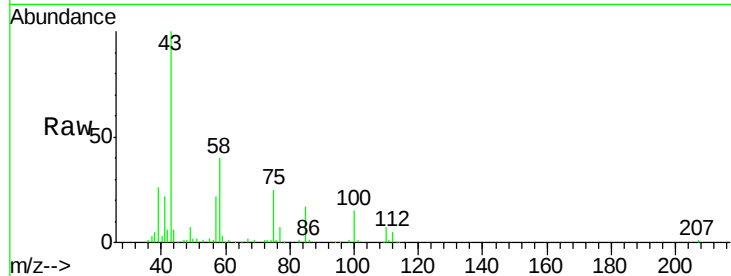
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 96797

Ion Ratio Lower Upper

43 100

58 39.9 33.1 49.7



#52

Toluene

Concen: 11.690 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061746.D

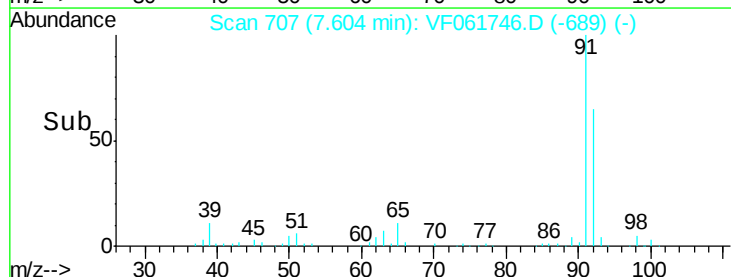
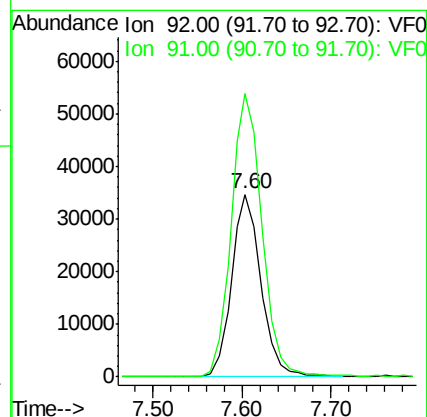
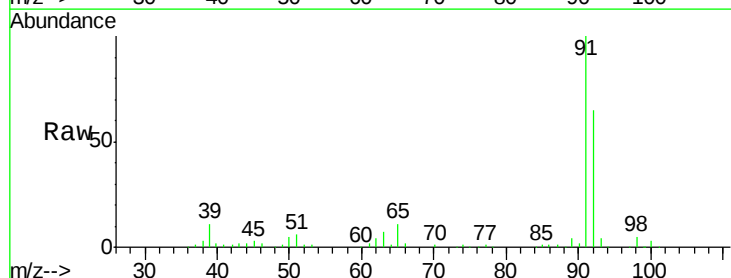
Acq: 26 Feb 2019 17:32

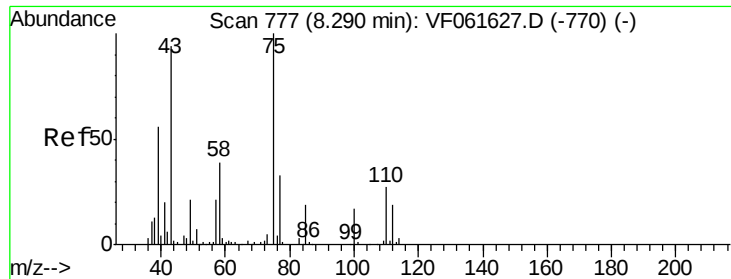
Tgt Ion: 92 Resp: 80698

Ion Ratio Lower Upper

92 100

91 155.0 133.9 200.9





#53

t-1,3-Dichloropropene

Concen: 12.562 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

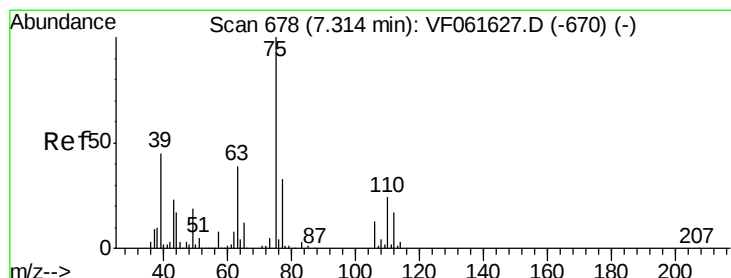
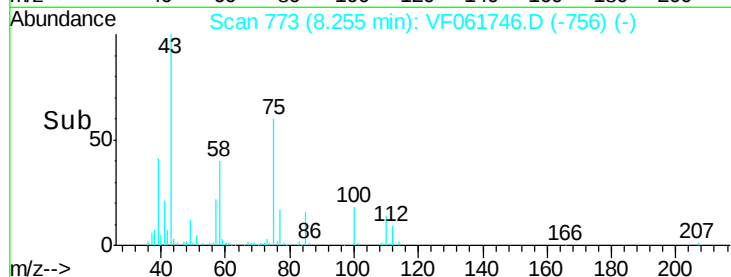
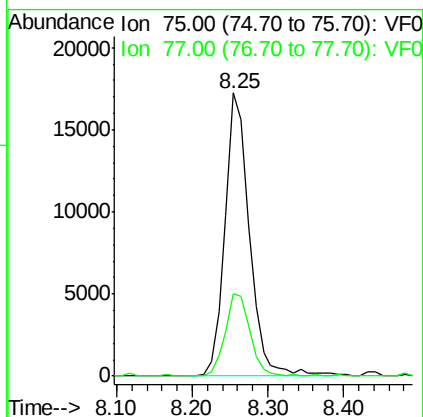
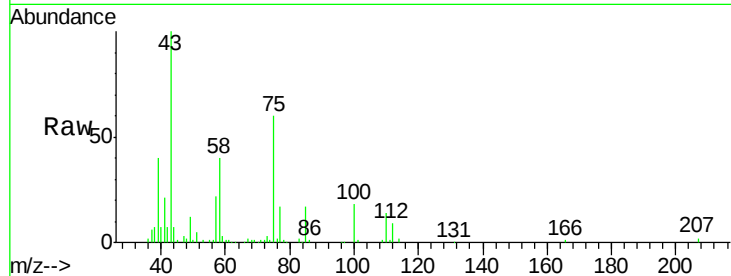
LOQ-SOIL-02-QT1-2019

Tot Ion: 75 Resp: 38782

Ion Ratio Lower Upper

75 100

77 29.0 26.2 39.2



#54

cis-1,3-Dichloropropene

Concen: 12.654 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

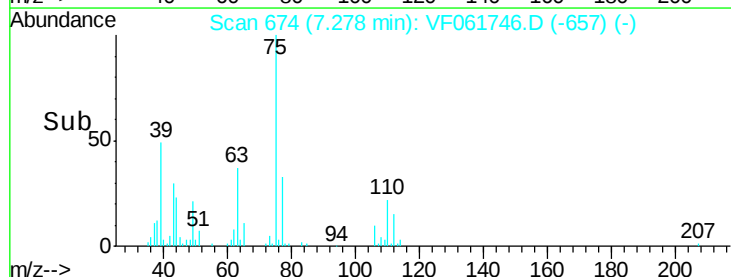
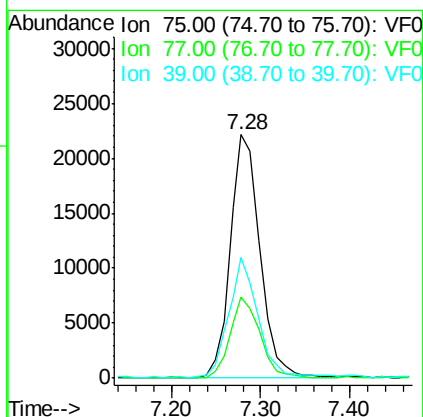
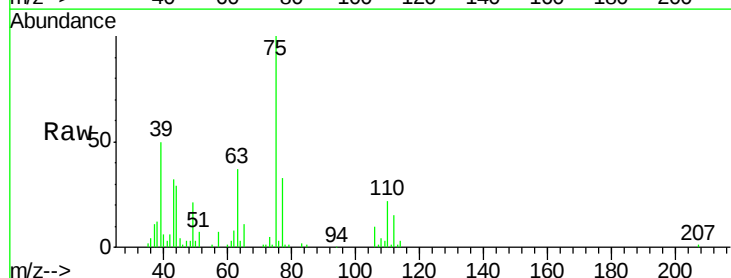
Tgt Ion: 75 Resp: 52038

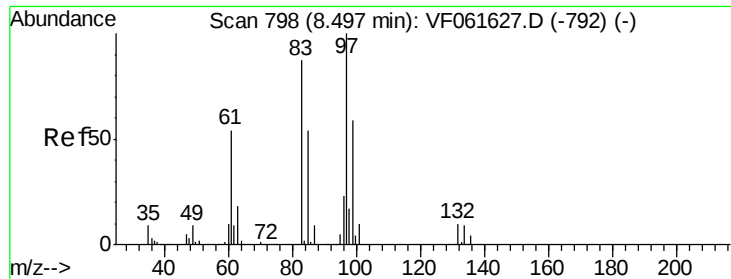
Ion Ratio Lower Upper

75 100

77 33.5 26.4 39.6

39 49.7 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 11.706 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 97 Resp: 23742

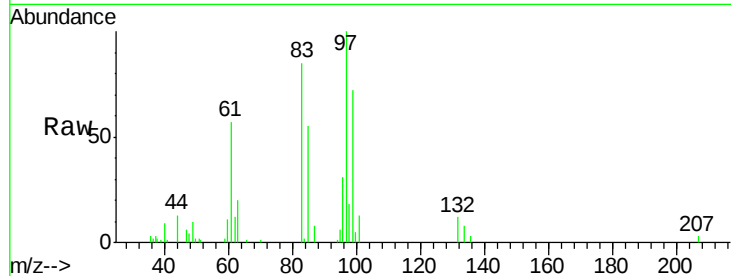
Ion Ratio Lower Upper

97 100

83 85.0 69.2 103.8

85 55.5 43.0 64.4

99 71.6 47.2 70.8#

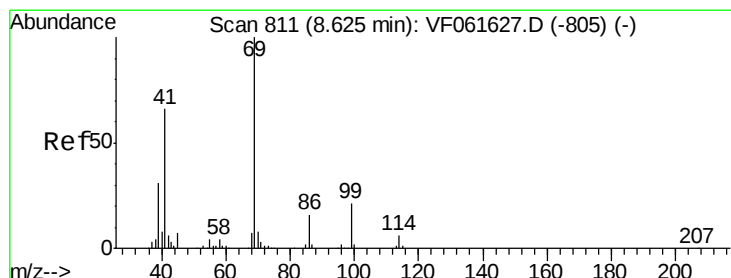
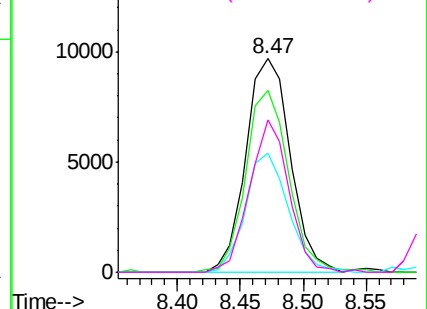
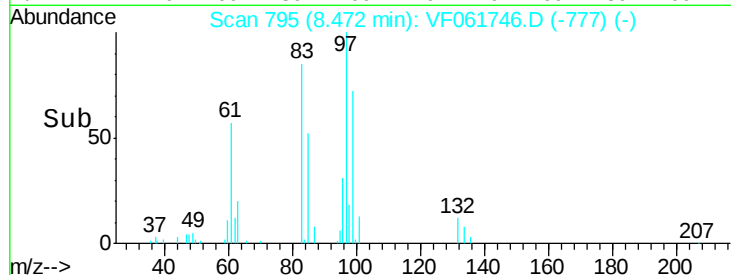


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 10.987 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

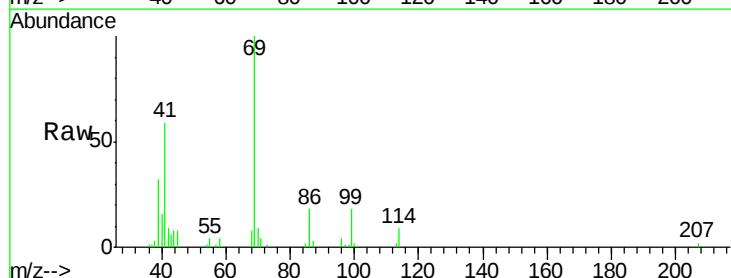
Tgt Ion: 69 Resp: 24809

Ion Ratio Lower Upper

69 100

41 59.5 52.9 79.3

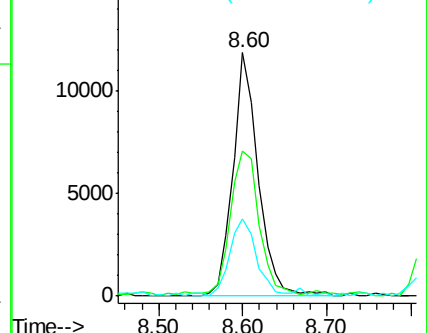
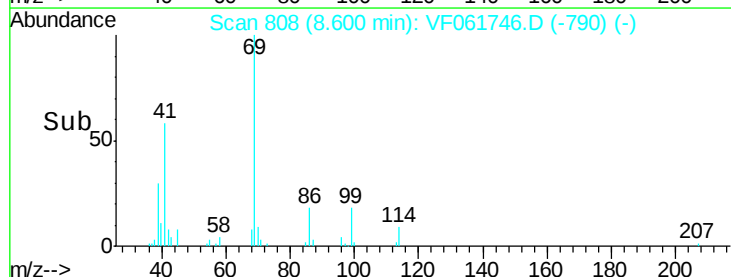
39 31.8 24.5 36.7

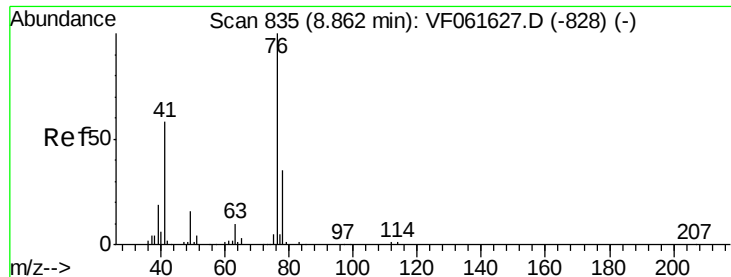


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 11.807 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

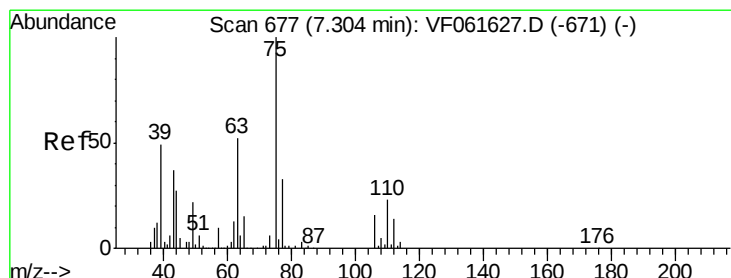
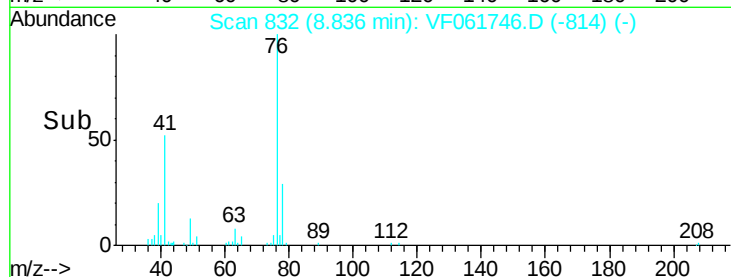
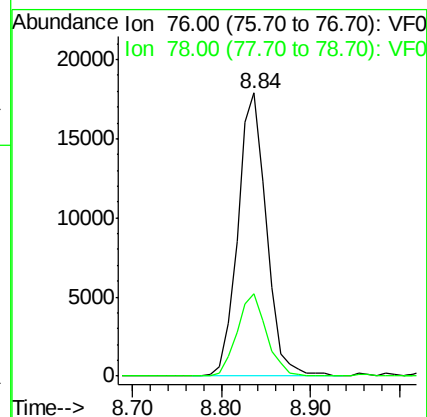
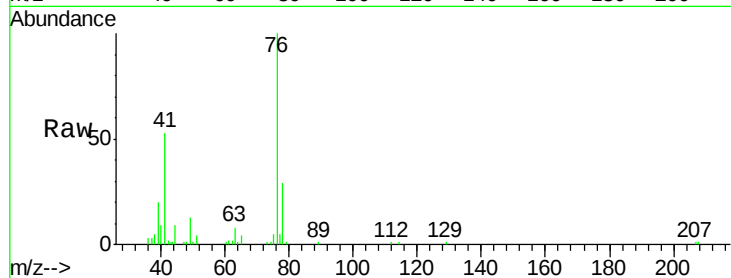
LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 39969

Ion Ratio Lower Upper

76 100

78 29.3 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 52.274 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061746.D

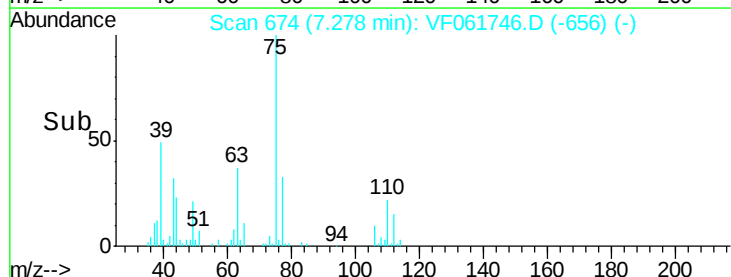
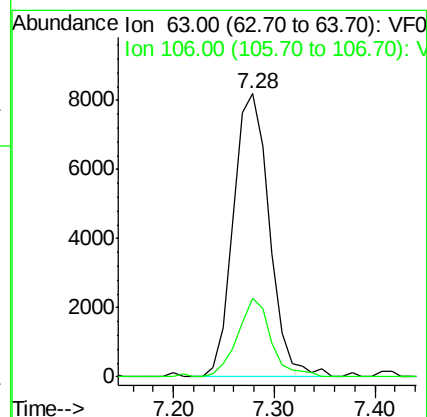
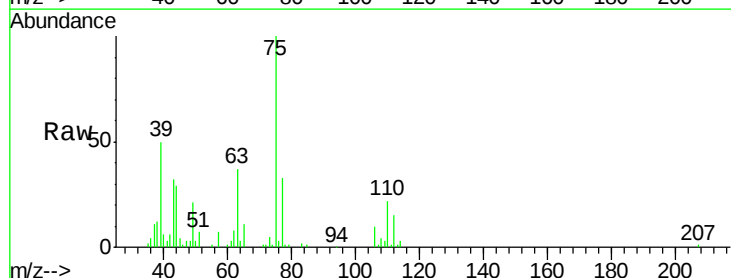
Acq: 26 Feb 2019 17:32

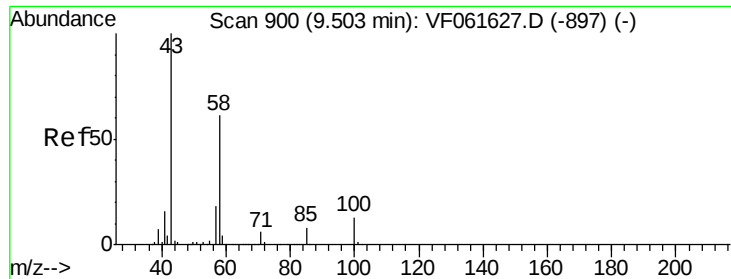
Tgt Ion: 63 Resp: 20366

Ion Ratio Lower Upper

63 100

106 27.9 24.6 36.8

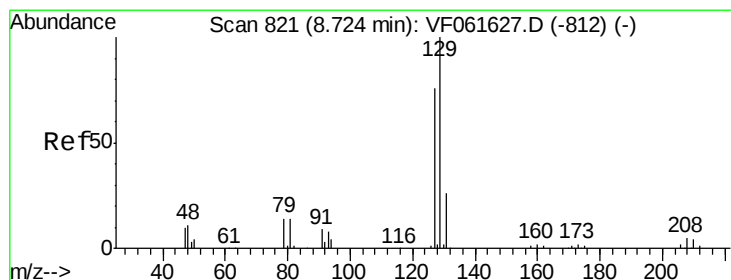
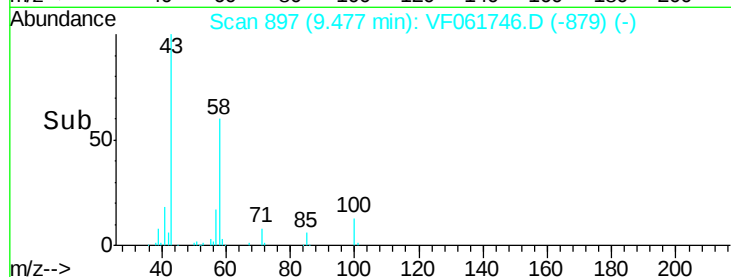
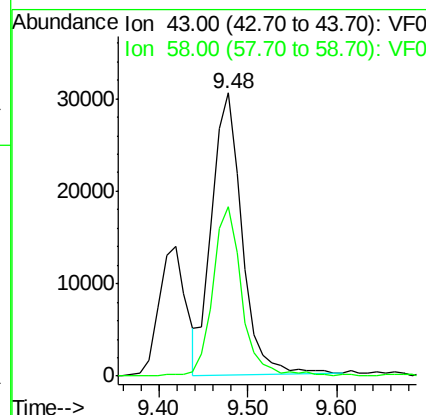
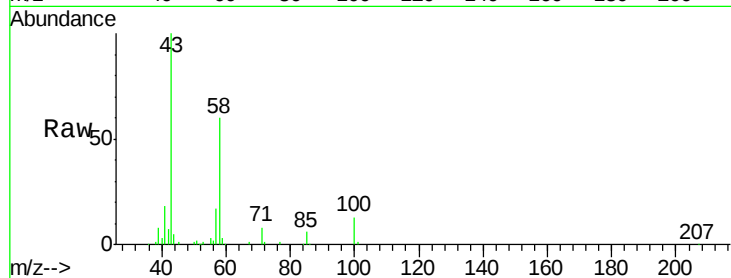




#59
2-Hexanone
Concen: 59.860 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

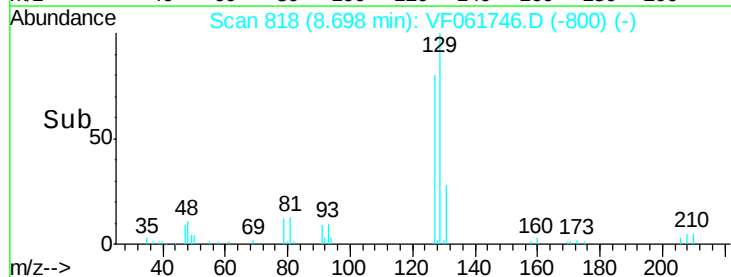
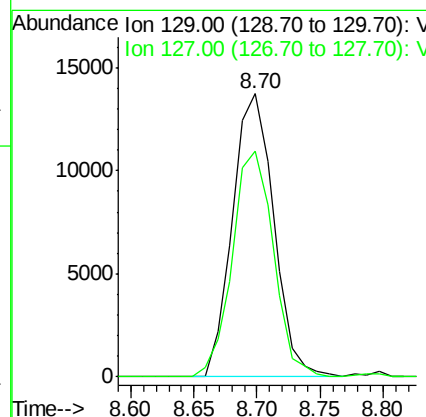
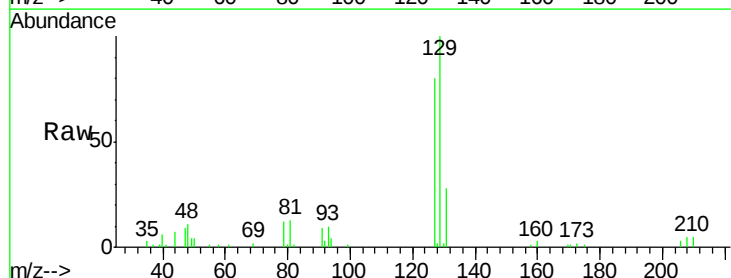
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

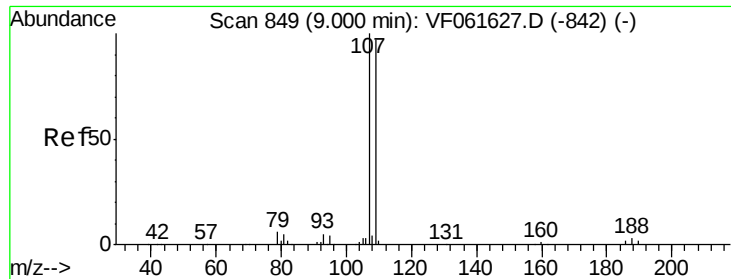
Tot Ion: 43 Resp: 71730
Ion Ratio Lower Upper
43 100
58 59.7 28.5 85.5



#60
Dibromochloromethane
Concen: 11.035 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 129 Resp: 31152
Ion Ratio Lower Upper
129 100
127 79.6 37.8 113.4





#61

1,2-Dibromoethane

Concen: 11.329 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

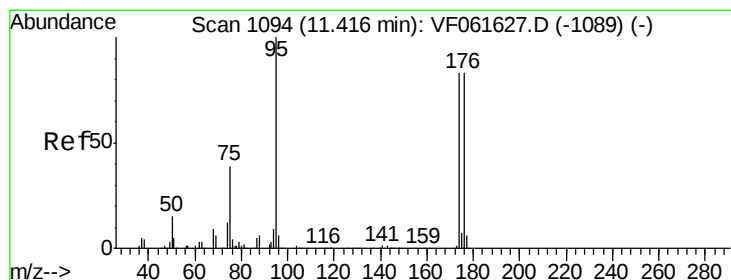
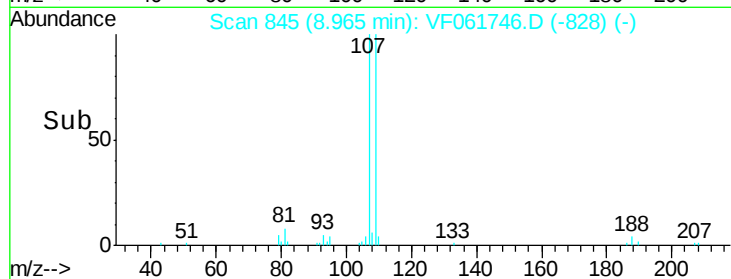
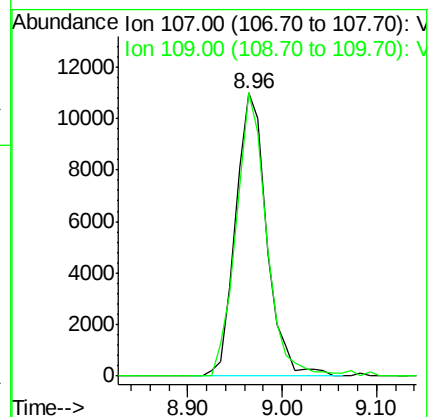
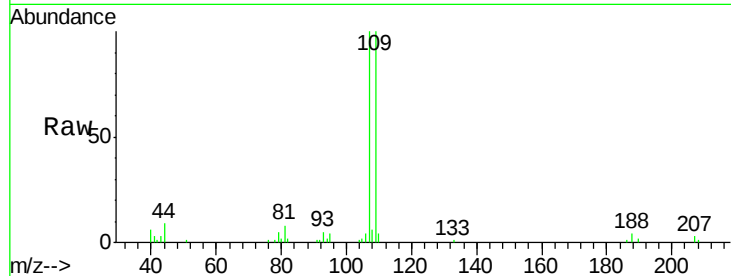
LOQ-SOIL-02-QT1-2019

Tot Ion:107 Resp: 24922

Ion Ratio Lower Upper

107 100

109 99.9 77.4 116.0



#62

4-Bromofluorobenzene

Concen: 55.975 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

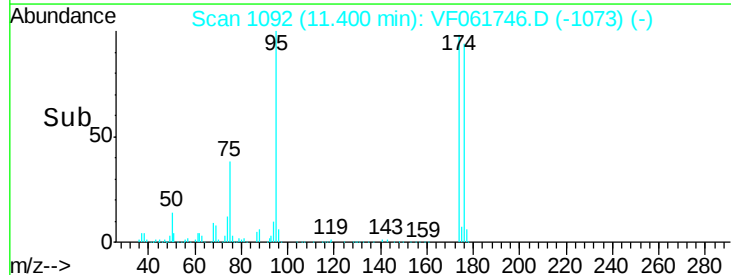
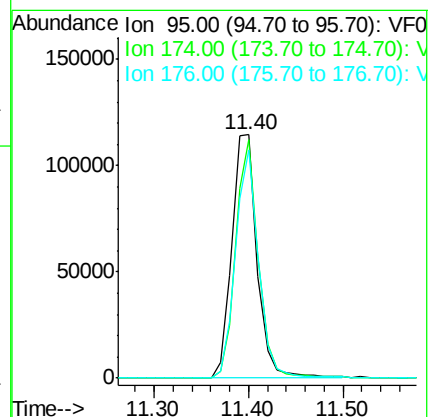
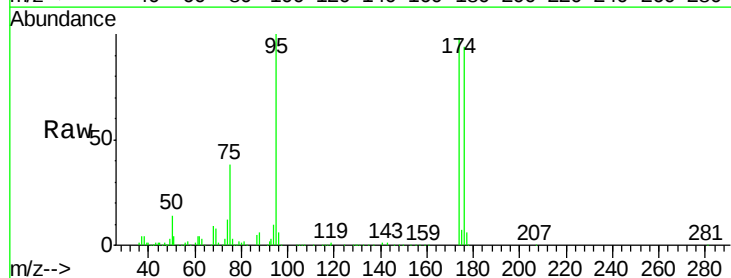
Tgt Ion: 95 Resp: 212386

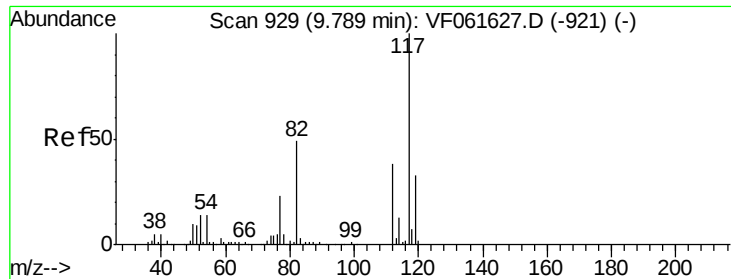
Ion Ratio Lower Upper

95 100

174 97.8 0.0 165.8

176 93.9 0.0 167.0

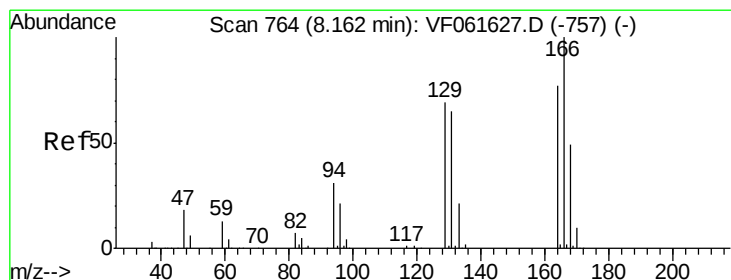
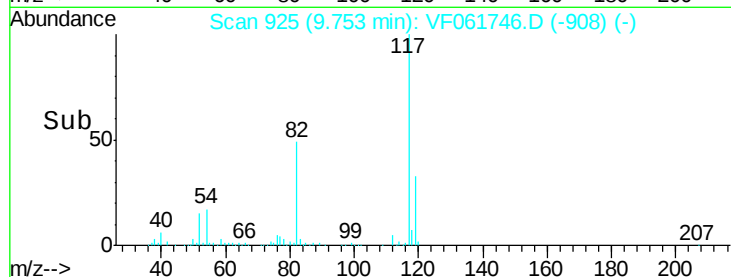
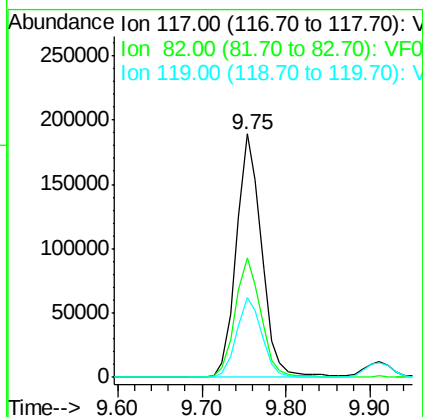
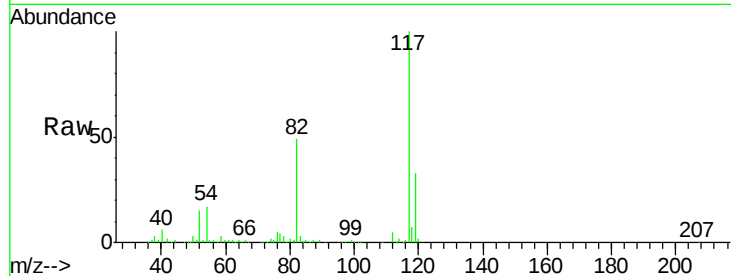




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

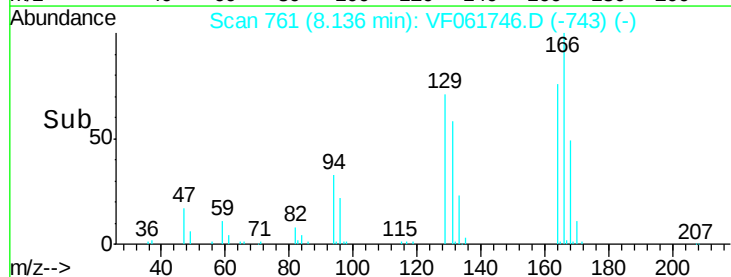
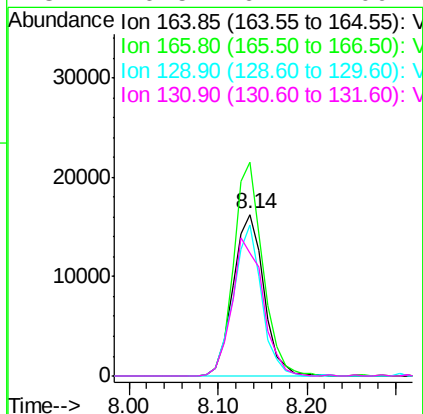
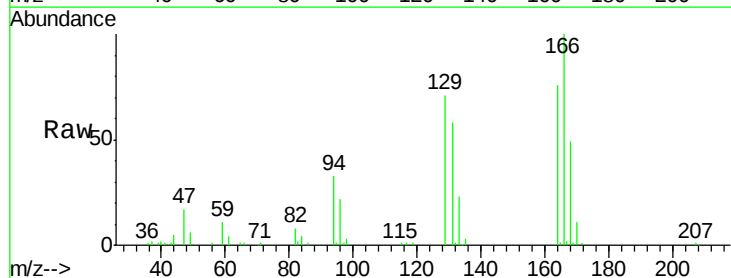
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

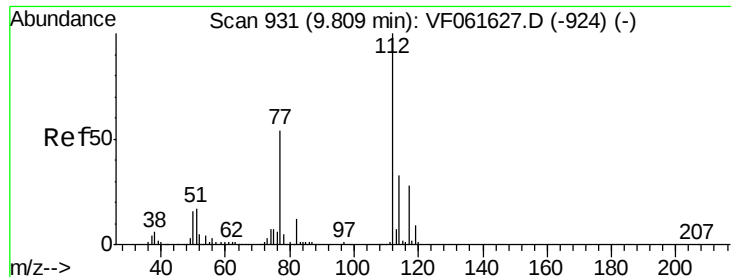
Tot Ion:117 Resp: 395795
Ion Ratio Lower Upper
117 100
82 49.2 39.3 58.9
119 32.8 26.6 40.0



#64
Tetrachloroethene
Concen: 12.151 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion:164 Resp: 39310
Ion Ratio Lower Upper
164 100
166 132.4 103.9 155.9
129 93.7 71.3 106.9
131 76.5 67.1 100.7





#65

Chlorobenzene

Concen: 11.921 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

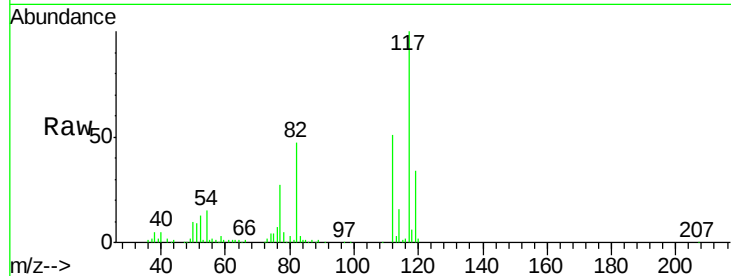
LOQ-SOIL-02-QT1-2019

Tot Ion:112 Resp: 95746

Ion Ratio Lower Upper

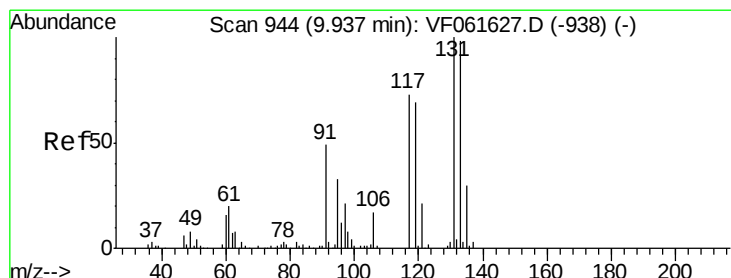
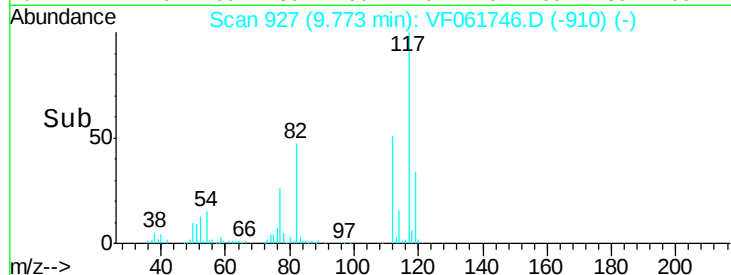
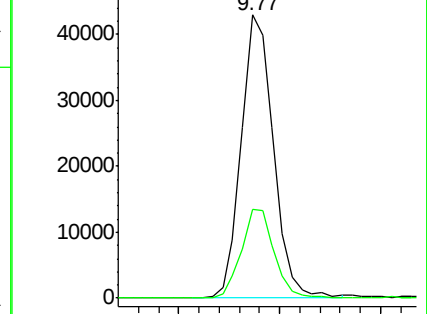
112 100

114 31.2 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 11.911 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

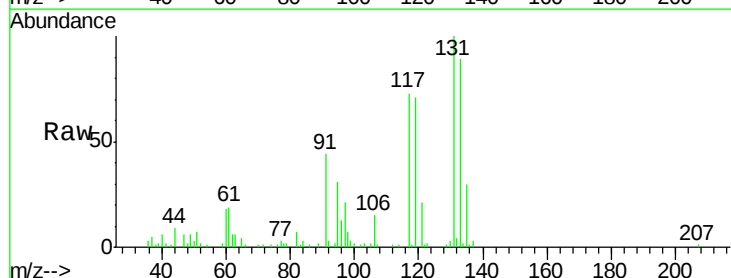
Tgt Ion:131 Resp: 37486

Ion Ratio Lower Upper

131 100

133 89.3 48.9 146.6

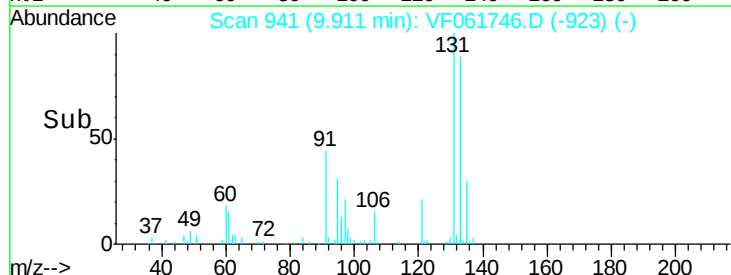
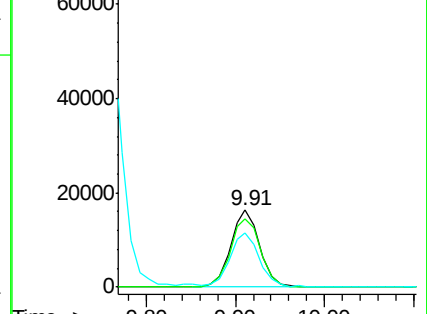
119 71.2 34.8 104.3

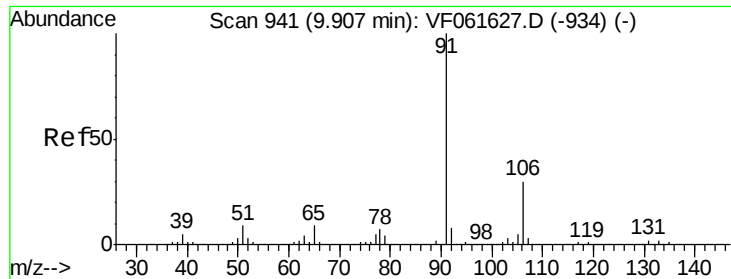


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 11.658 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

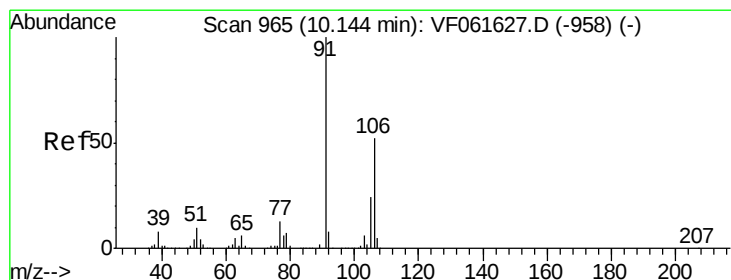
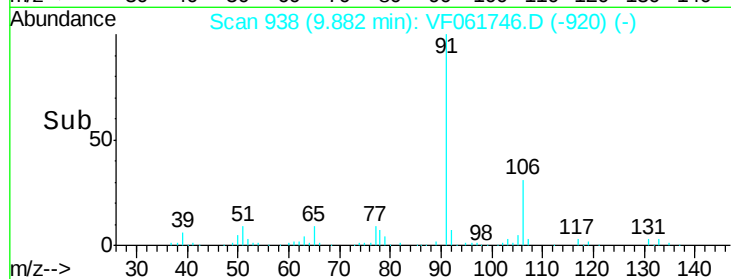
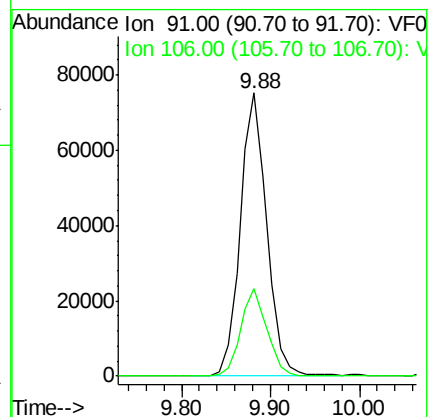
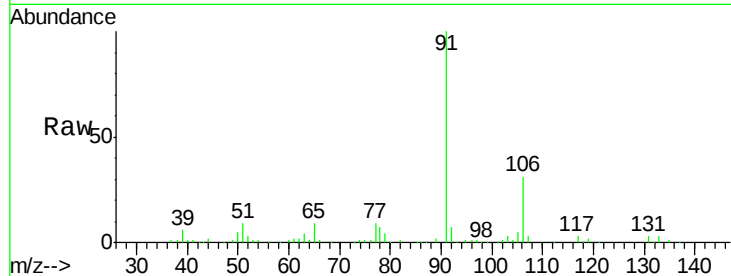
LOQ-SOIL-02-QT1-2019

Tot Ion: 91 Resp: 155714

Ion Ratio Lower Upper

91 100

106 30.8 24.1 36.1



#68

m/p-Xylenes

Concen: 23.709 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.04 min

Lab File: VF061746.D

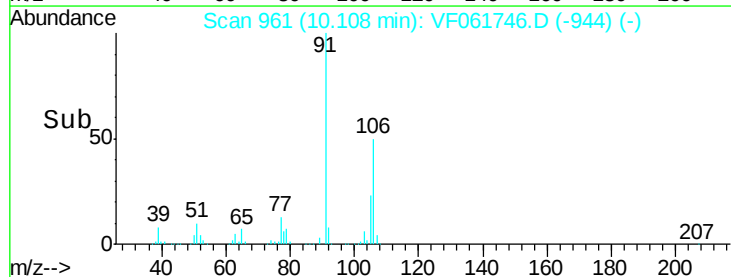
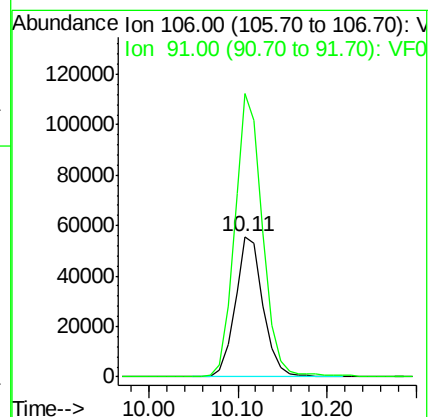
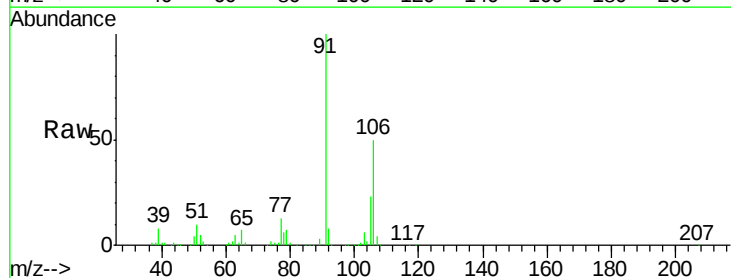
Acq: 26 Feb 2019 17:32

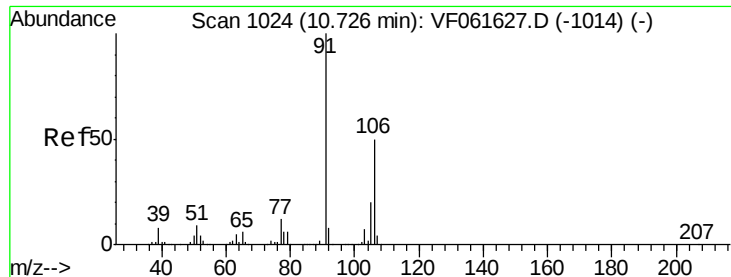
Tgt Ion: 106 Resp: 121195

Ion Ratio Lower Upper

106 100

91 201.8 153.0 229.6

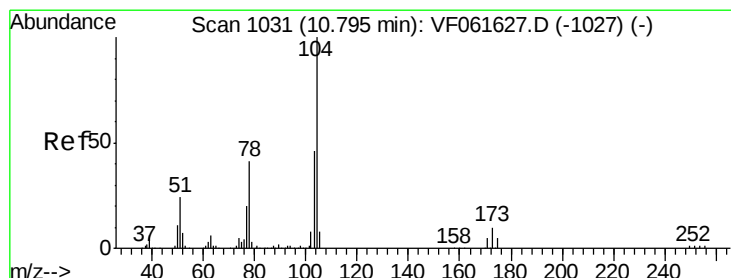
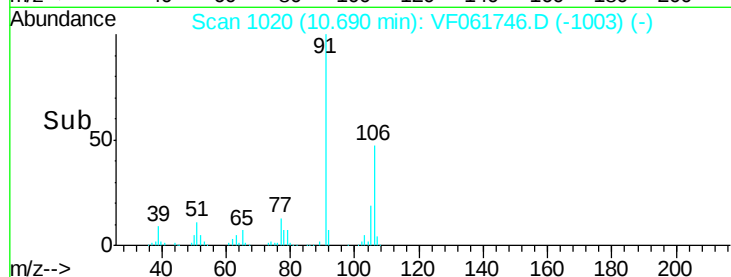
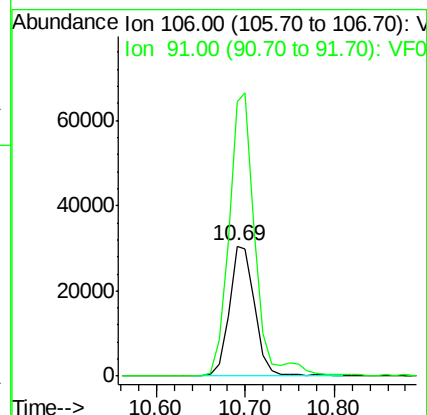
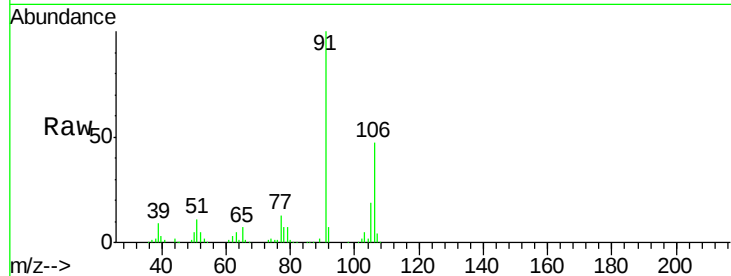




#69
o-Xylene
Concen: 11.295 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

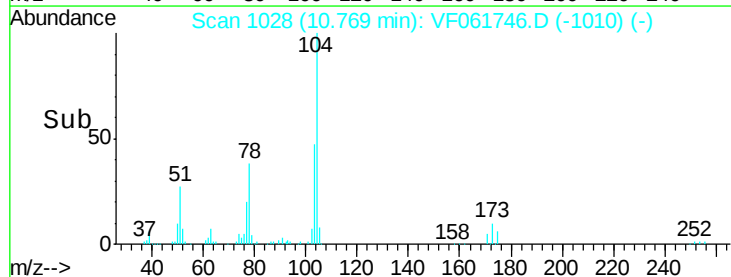
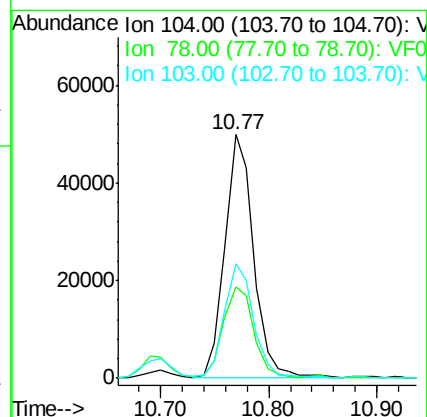
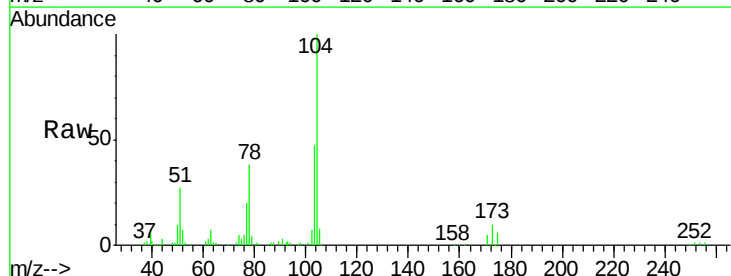
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

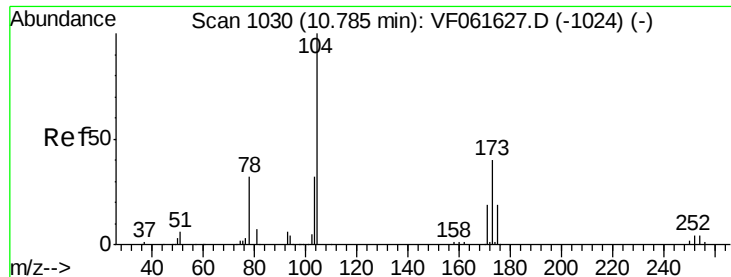
Tot Ion:106 Resp: 61608
Ion Ratio Lower Upper
106 100
91 211.5 100.1 300.1



#70
Styrene
Concen: 12.026 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion:104 Resp: 92796
Ion Ratio Lower Upper
104 100
78 37.6 33.2 49.8
103 47.0 37.2 55.8





#71

Bromoform

Concen: 11.088 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

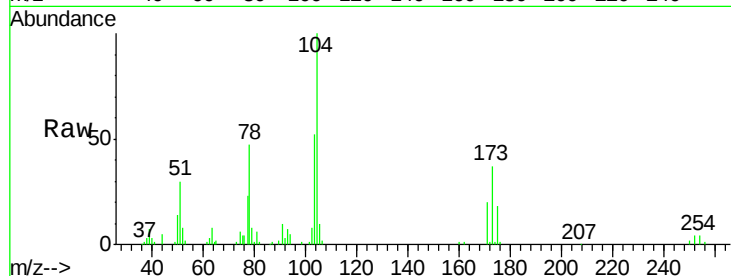
Tot Ion:173 Resp: 18949

Ion Ratio Lower Upper

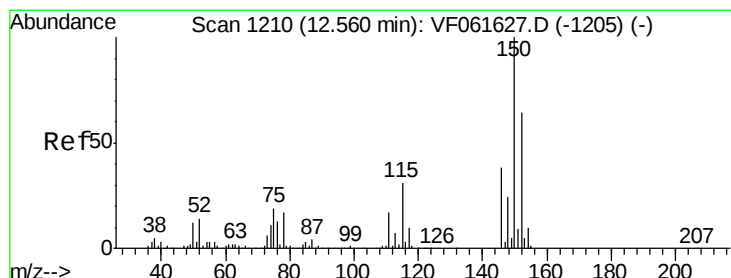
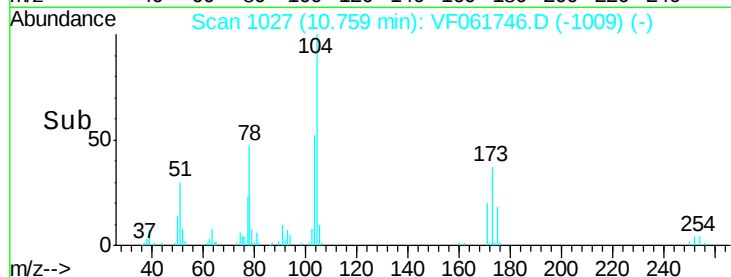
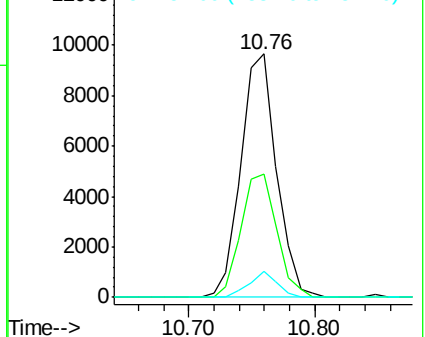
173 100

175 50.6 24.0 72.0

254 10.7 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: 12.53 min Scan# 1207

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

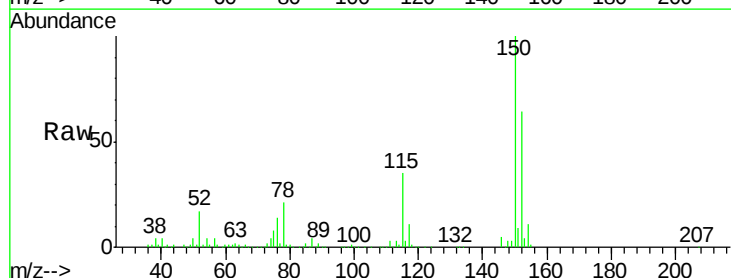
Tgt Ion:152 Resp: 224402

Ion Ratio Lower Upper

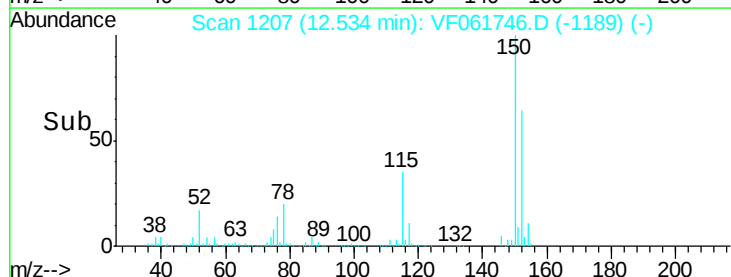
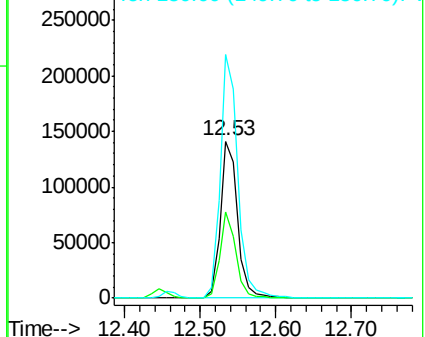
152 100

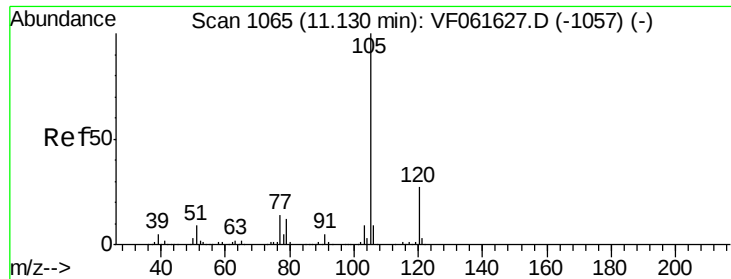
115 54.7 24.3 72.8

150 155.5 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: 11.745 ug/l

RT: 11.10 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

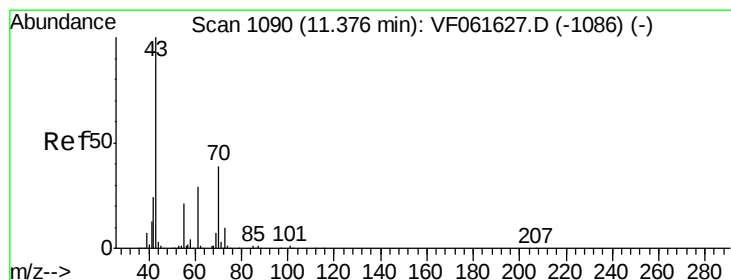
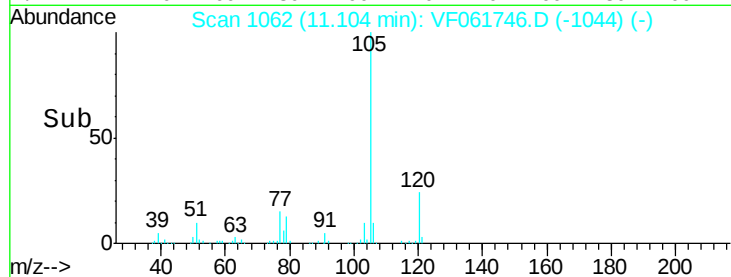
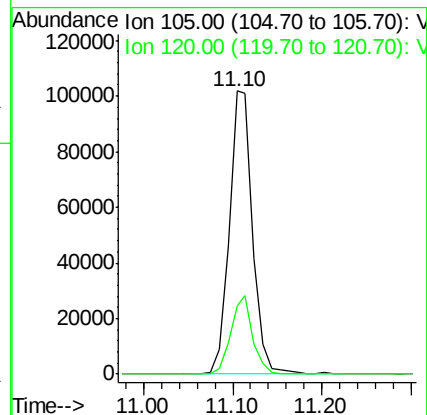
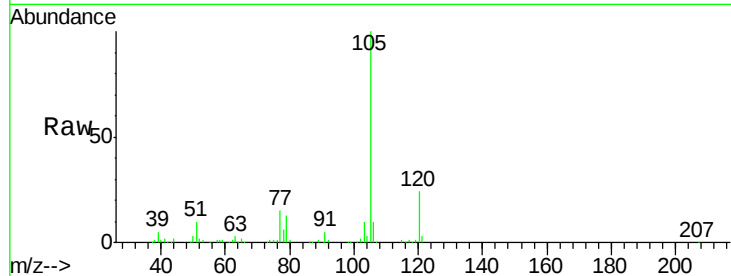
LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 187649

Ion Ratio Lower Upper

105 100

120 24.2 13.4 40.1



#74

N-ethyl acetate

Concen: 10.856 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion: 43 Resp: 41631

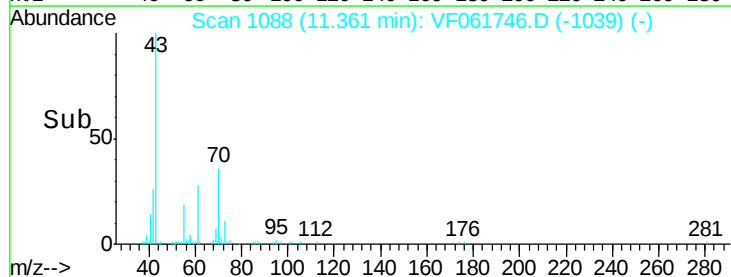
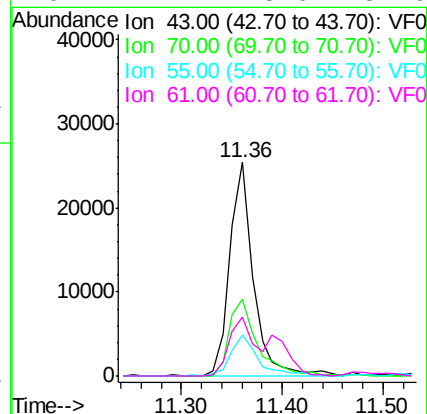
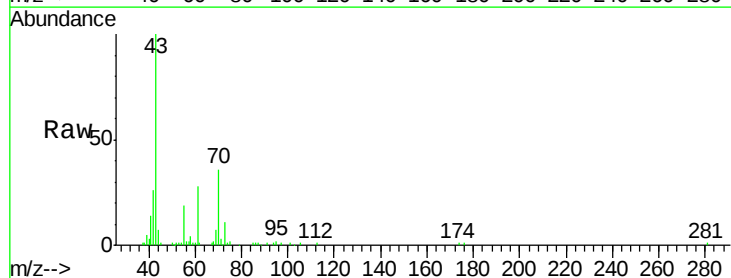
Ion Ratio Lower Upper

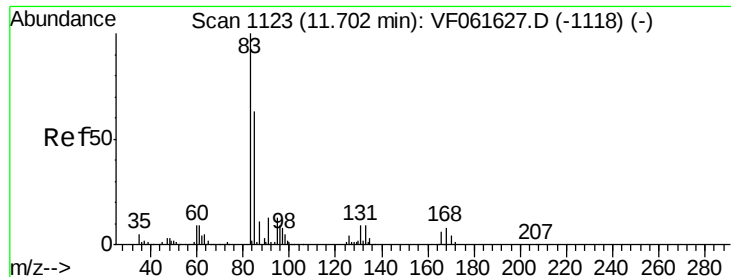
43 100

70 36.3 31.5 47.3

55 19.4 16.7 25.1

61 27.7 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 11.096 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

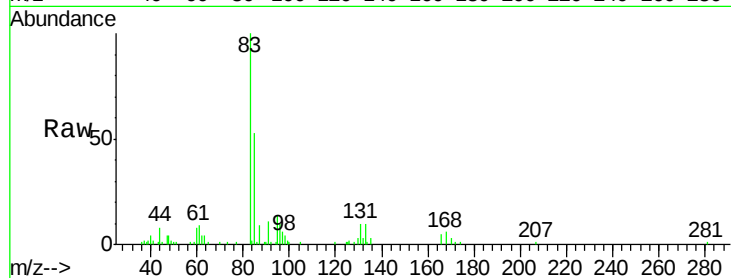
Tot Ion: 83 Resp: 31761

Ion Ratio Lower Upper

83 100

131 9.6 4.4 13.2

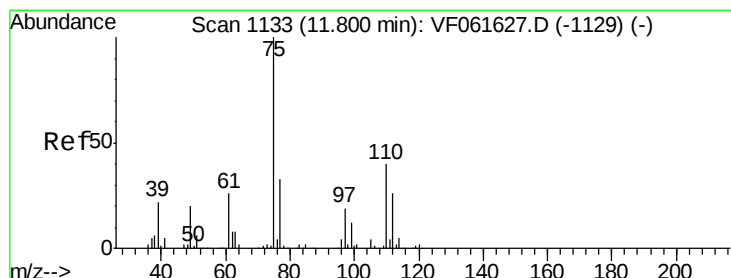
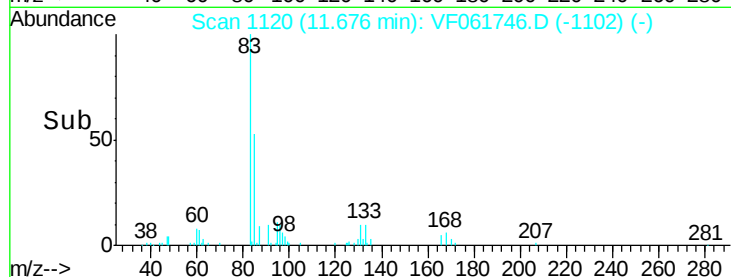
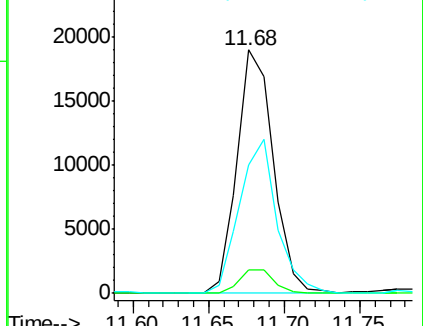
85 52.7 31.5 94.5



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: 11.199 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.03 min

Lab File: VF061746.D

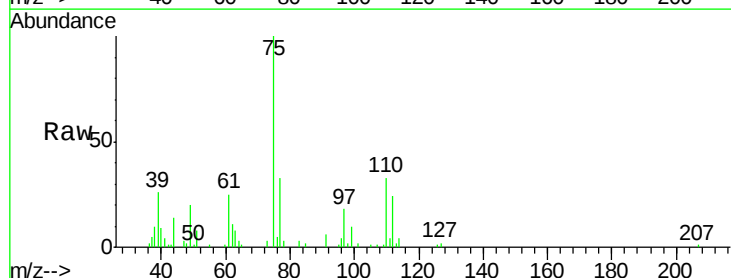
Acq: 26 Feb 2019 17:32

Tgt Ion: 75 Resp: 21794

Ion Ratio Lower Upper

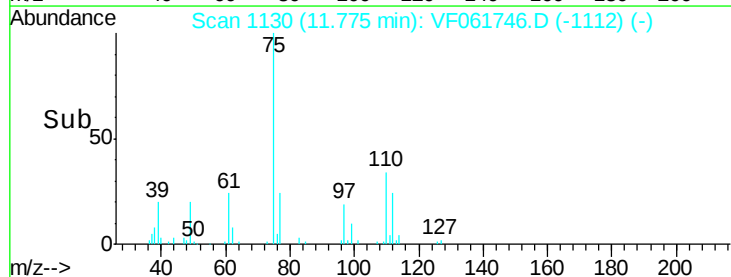
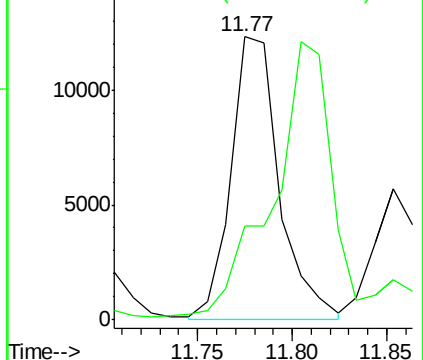
75 100

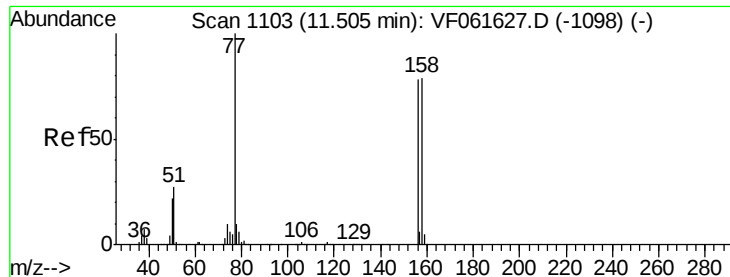
77 33.1 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 11.582 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

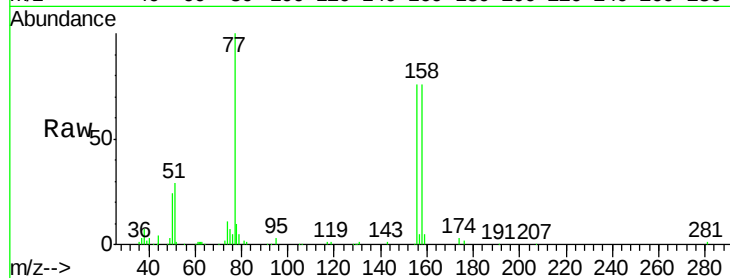
Tot Ion:156 Resp: 45714

Ion Ratio Lower Upper

156 100

77 131.7 64.3 192.7

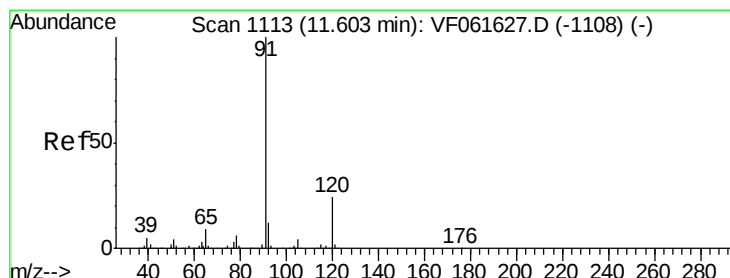
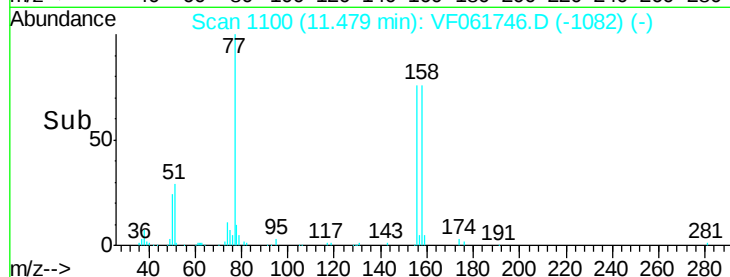
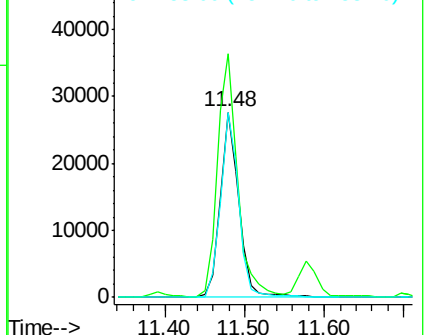
158 99.8 50.9 152.7



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: 12.240 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.03 min

Lab File: VF061746.D

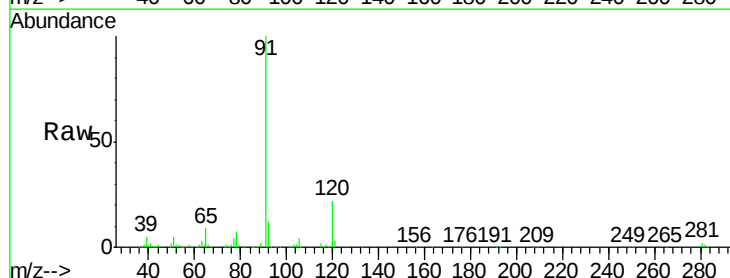
Acq: 26 Feb 2019 17:32

Tgt Ion: 91 Resp: 224408

Ion Ratio Lower Upper

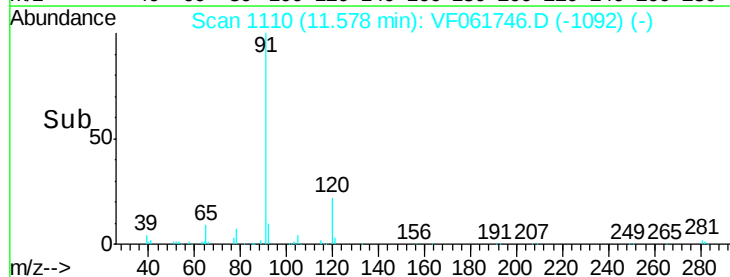
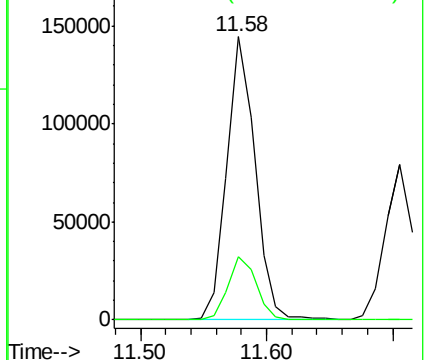
91 100

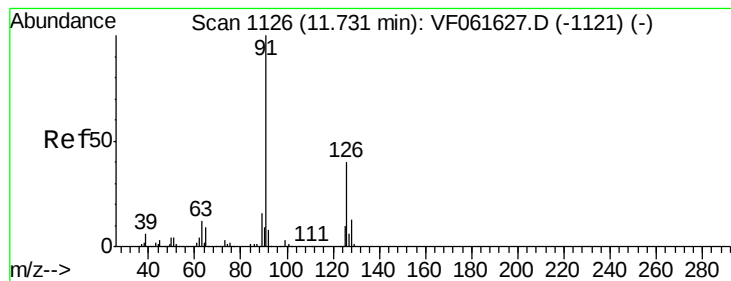
120 22.4 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 11.972 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

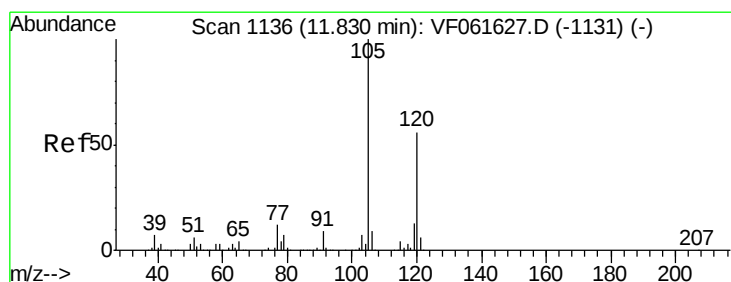
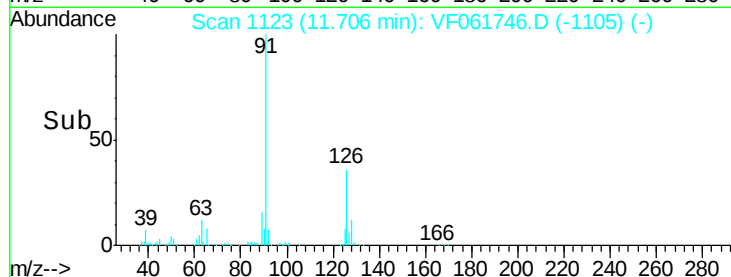
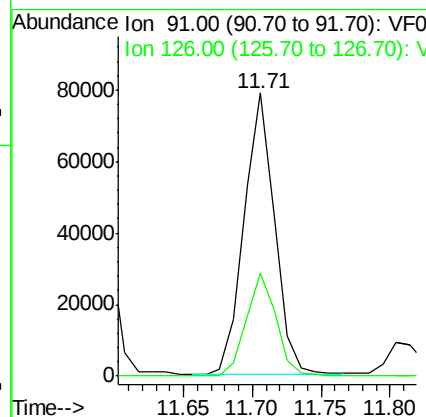
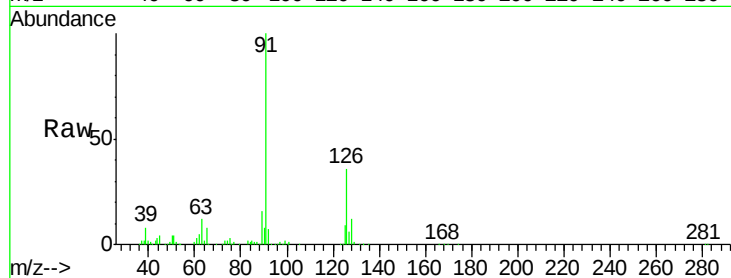
LOQ-SOIL-02-QT1-2019

Tot Ion: 91 Resp: 122930

Ion Ratio Lower Upper

91 100

126 36.4 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 12.452 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061746.D

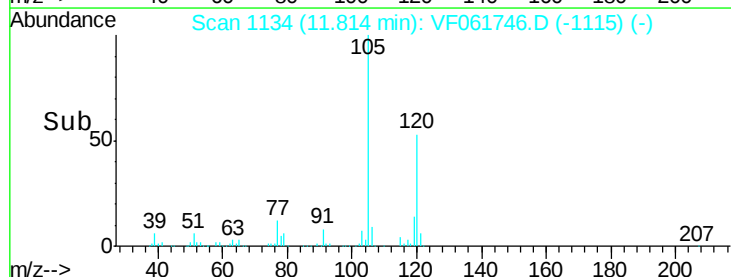
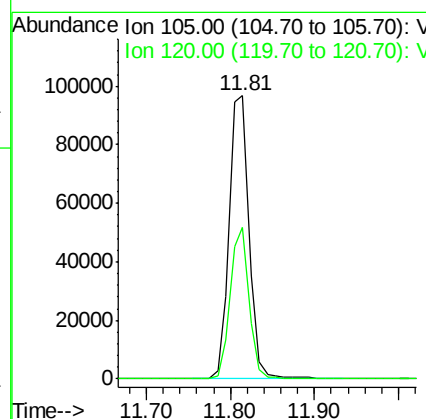
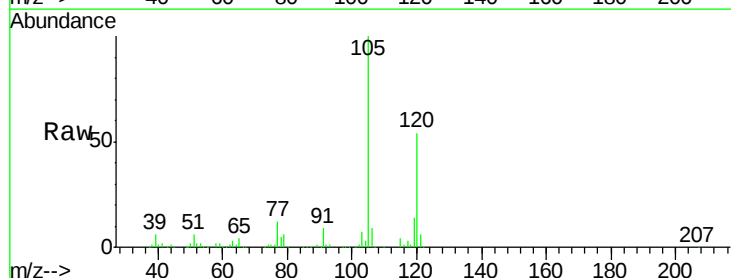
Acq: 26 Feb 2019 17:32

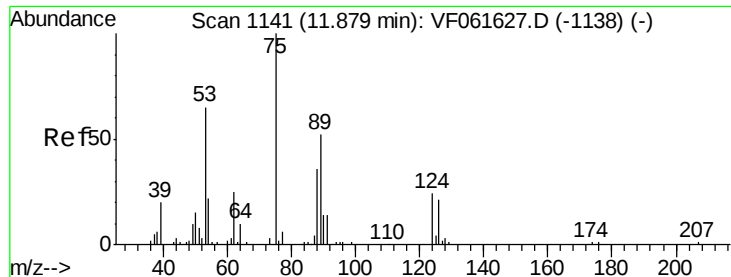
Tgt Ion:105 Resp: 159011

Ion Ratio Lower Upper

105 100

120 53.7 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 13.977 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

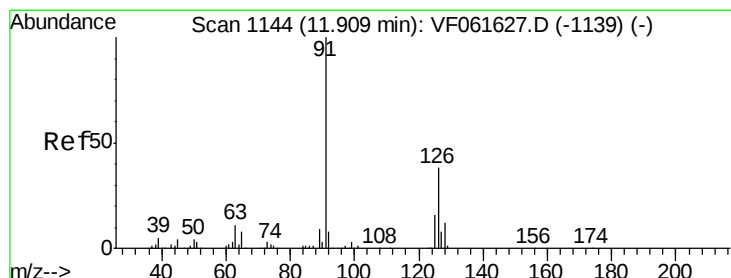
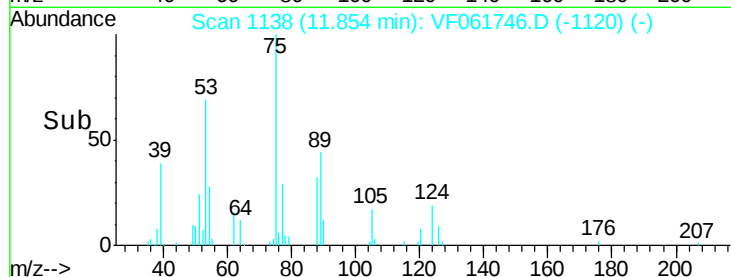
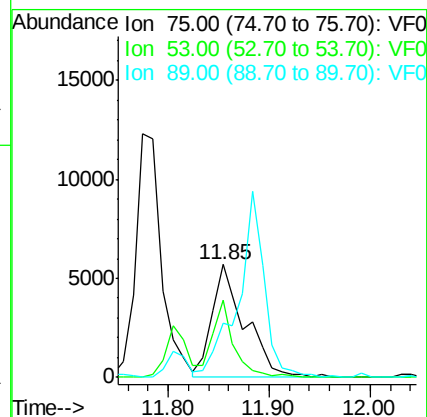
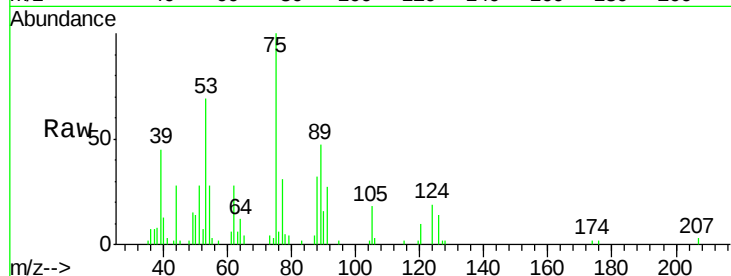
Tot Ion: 75 Resp: 13040

Ion Ratio Lower Upper

75 100

53 68.8 53.7 80.5

89 47.4 41.6 62.4



#82

4-Chlorotoluene

Concen: 11.589 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.03 min

Lab File: VF061746.D

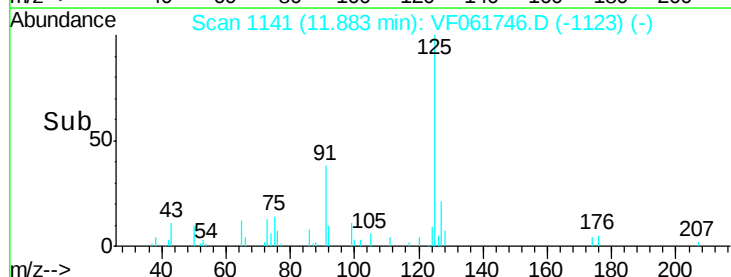
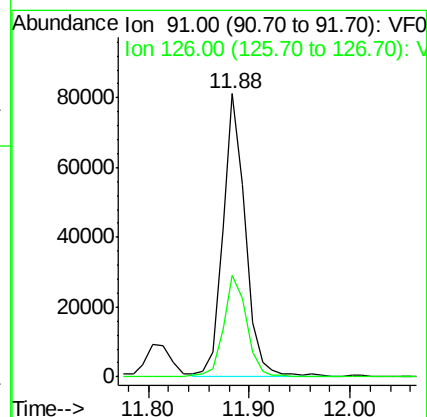
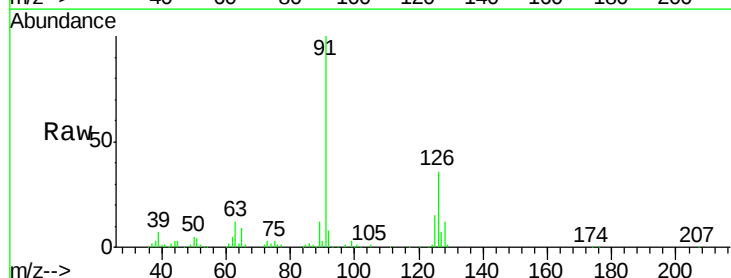
Acq: 26 Feb 2019 17:32

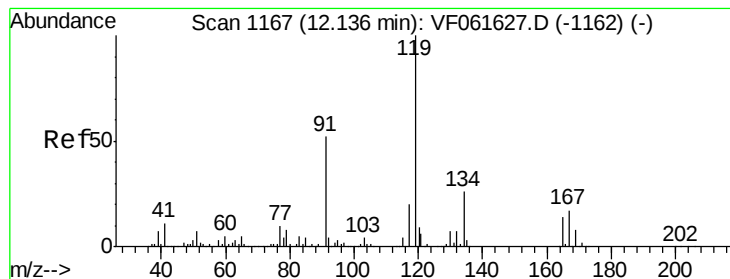
Tgt Ion: 91 Resp: 123509

Ion Ratio Lower Upper

91 100

126 35.8 19.1 57.1





#83

tert-Butylbenzene

Concen: 11.996 ug/l

RT: 12.12 min Scan# 1165

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

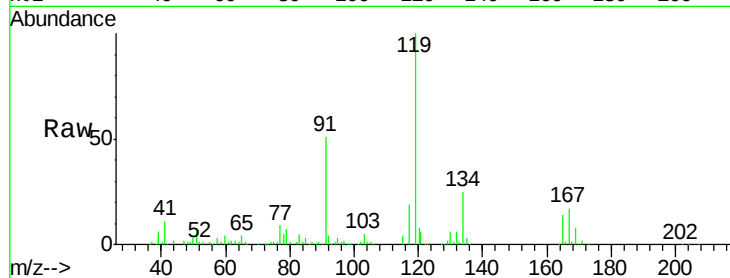
Tot Ion:119 Resp: 169668

Ion Ratio Lower Upper

119 100

91 51.4 26.3 78.8

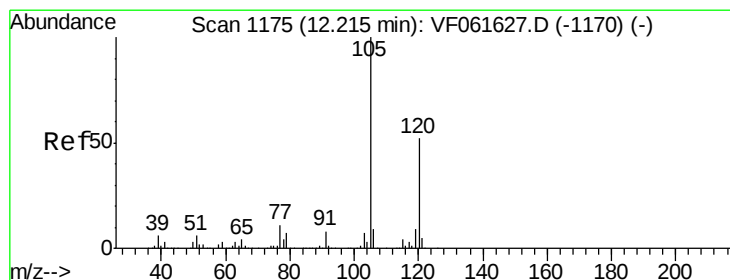
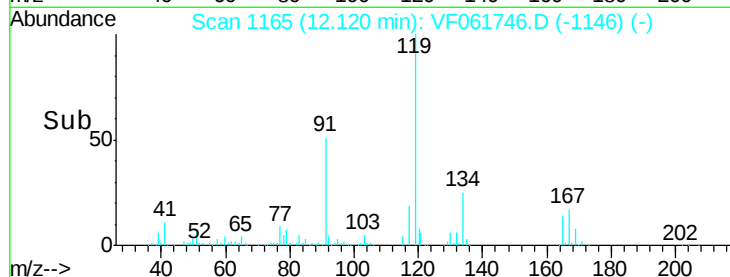
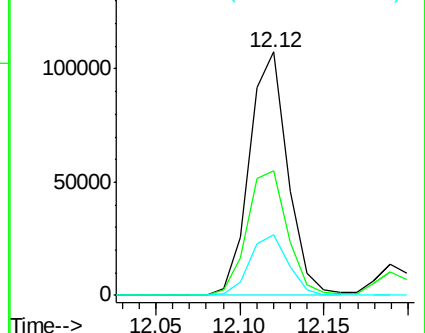
134 24.7 12.9 38.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 12.341 ug/l

RT: 12.19 min Scan# 1172

Delta R.T. -0.03 min

Lab File: VF061746.D

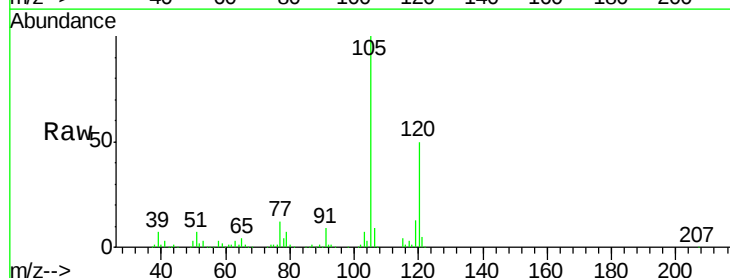
Acq: 26 Feb 2019 17:32

Tgt Ion:105 Resp: 156558

Ion Ratio Lower Upper

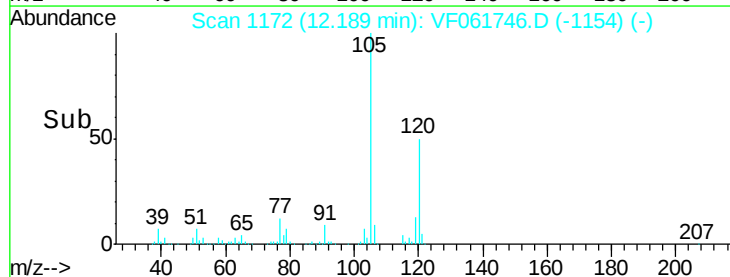
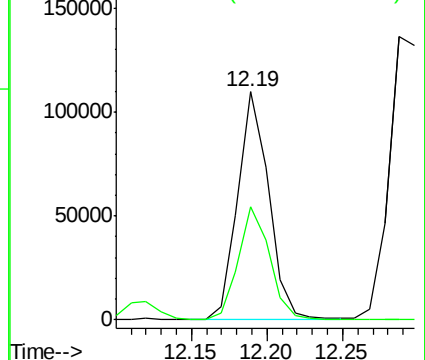
105 100

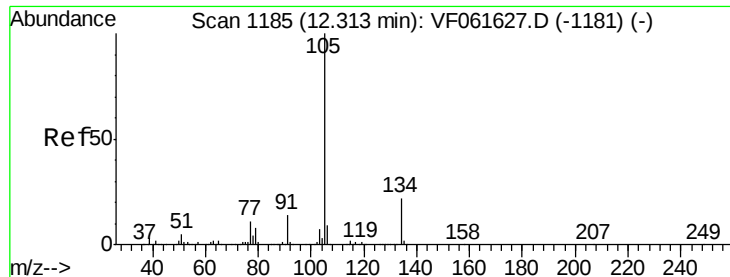
120 49.8 26.1 78.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 12.079 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

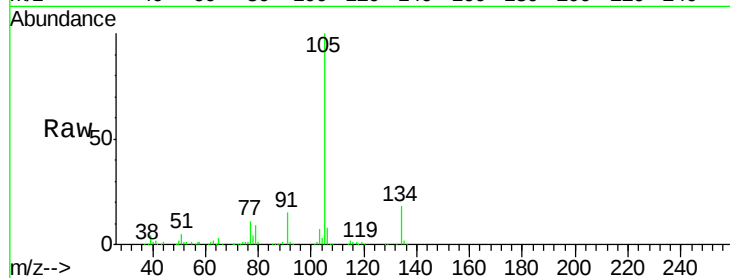
LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 220917

Ion Ratio Lower Upper

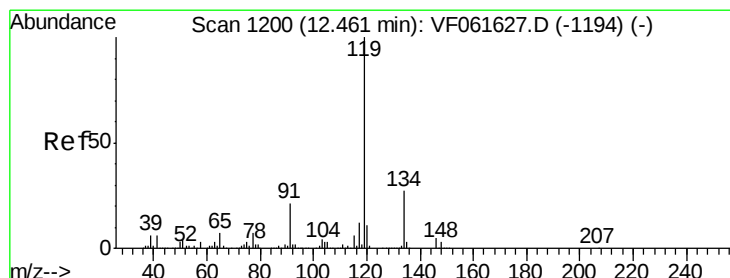
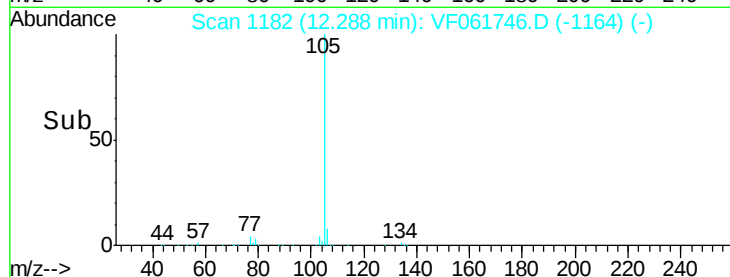
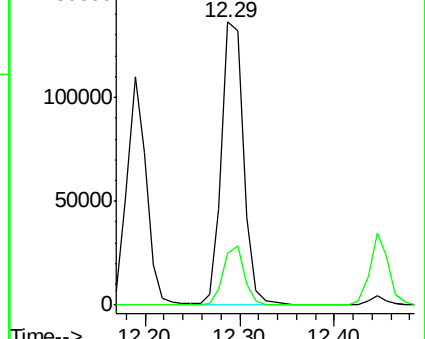
105 100

134 18.1 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: 12.181 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

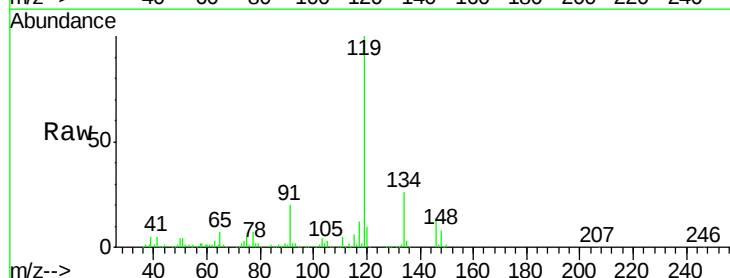
Tgt Ion:119 Resp: 186979

Ion Ratio Lower Upper

119 100

134 25.7 13.7 41.1

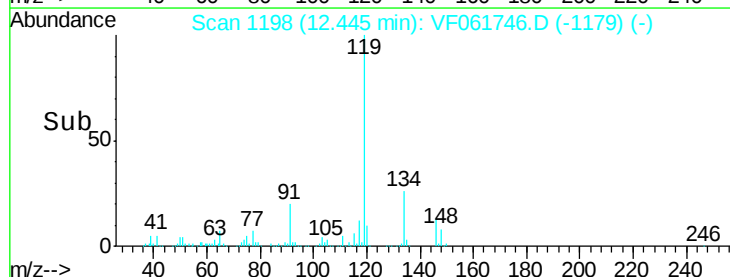
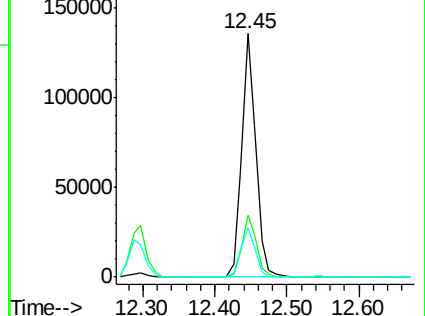
91 20.4 10.8 32.4

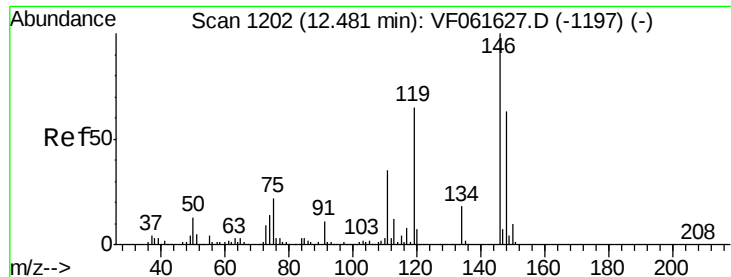


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

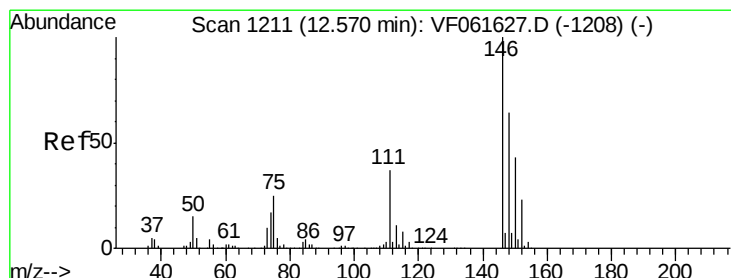
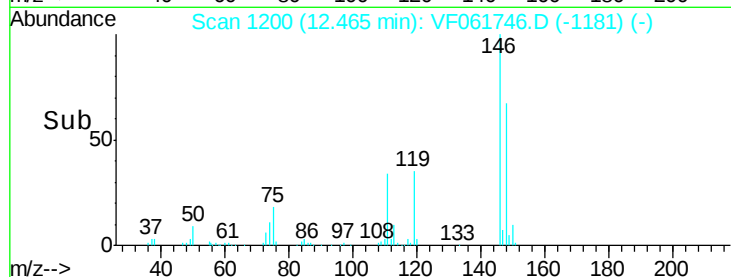
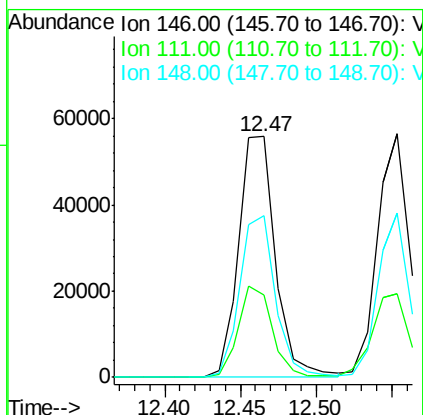
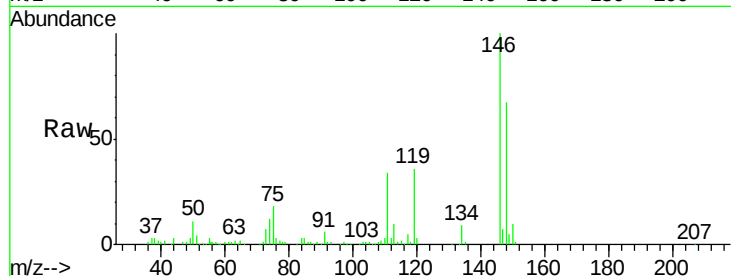




#87
 1,3-Dichlorobenzene
 Concen: 12.293 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

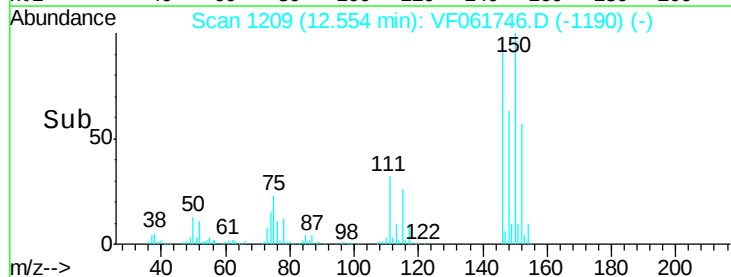
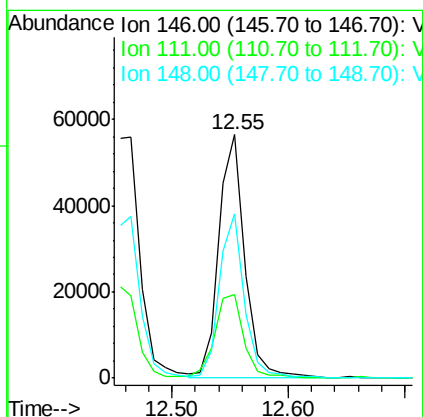
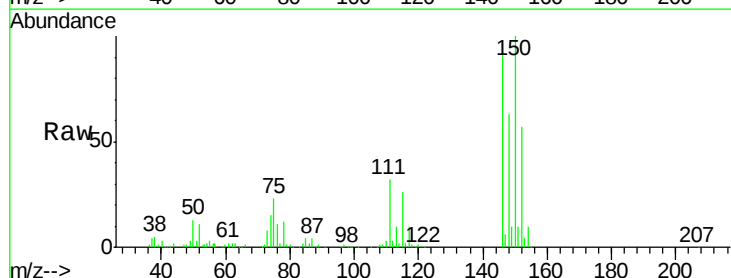
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

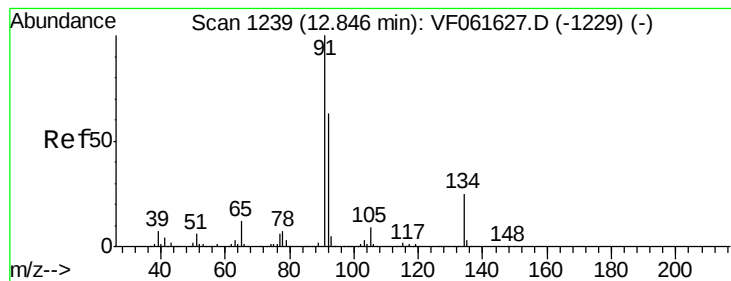
Tot Ion:146 Resp: 94595
 Ion Ratio Lower Upper
 146 100
 111 34.1 17.5 52.6
 148 67.2 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 11.706 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion:146 Resp: 86627
 Ion Ratio Lower Upper
 146 100
 111 34.5 18.4 55.4
 148 67.5 32.2 96.6





#89

n-Butylbenzene

Concen: 12.542 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

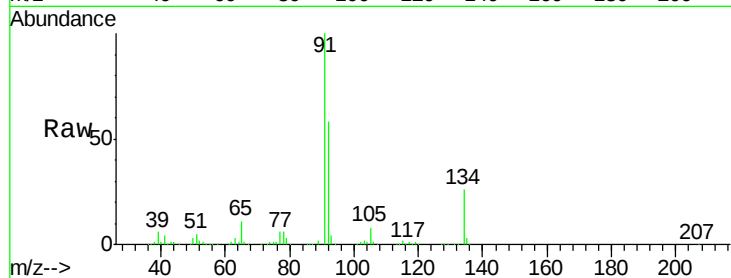
Tot Ion: 91 Resp: 181786

Ion Ratio Lower Upper

91 100

92 57.5 31.4 94.3

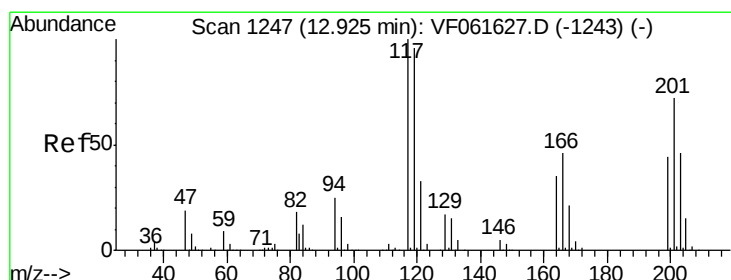
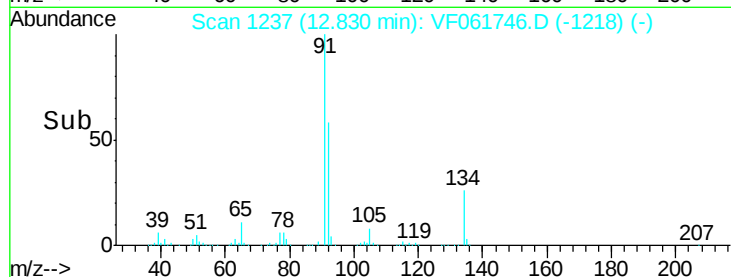
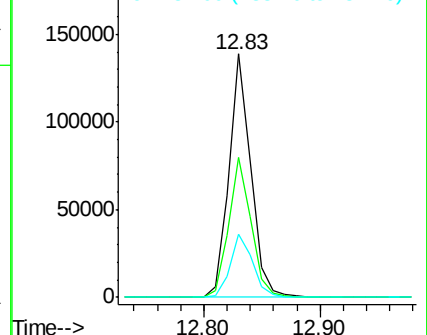
134 26.0 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 12.054 ug/l

RT: 12.90 min Scan# 1244

Delta R.T. -0.03 min

Lab File: VF061746.D

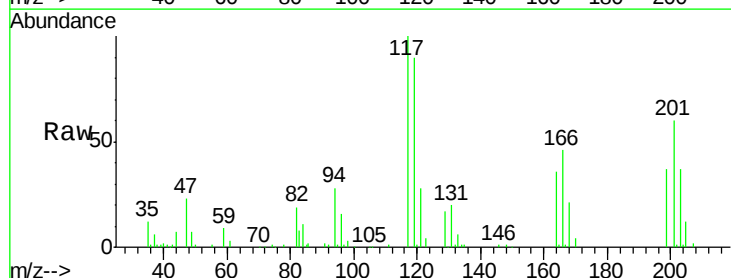
Acq: 26 Feb 2019 17:32

Tgt Ion: 117 Resp: 43032

Ion Ratio Lower Upper

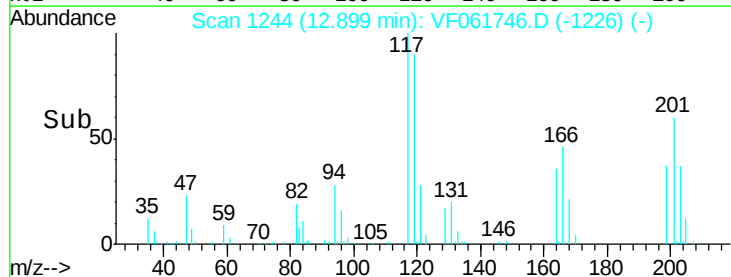
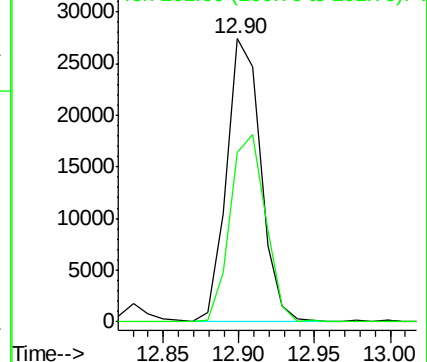
117 100

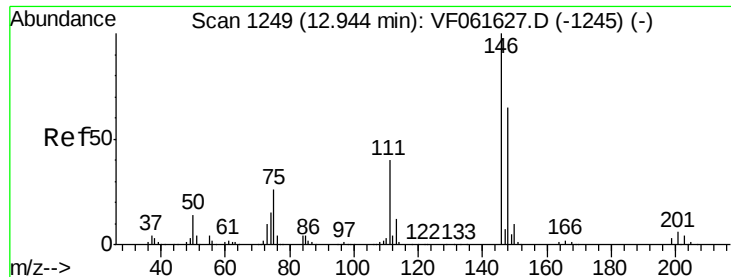
201 60.0 36.2 108.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 11.765 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

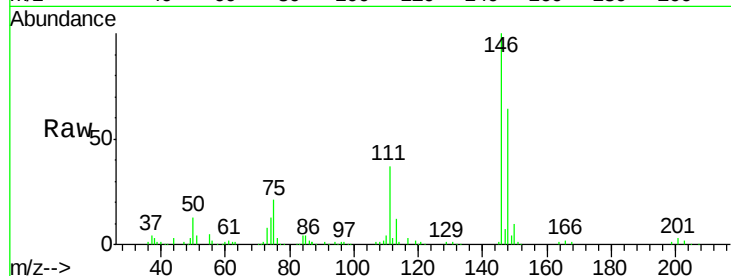
Tot Ion:146 Resp: 86106

Ion Ratio Lower Upper

146 100

111 36.9 20.2 60.5

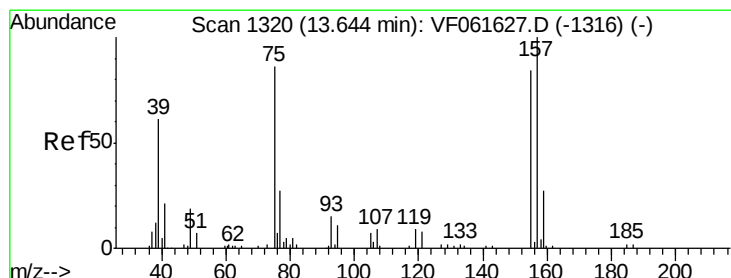
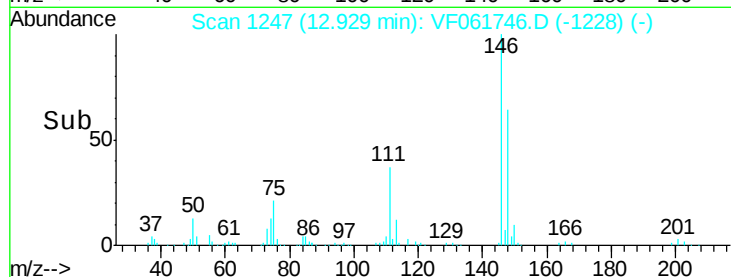
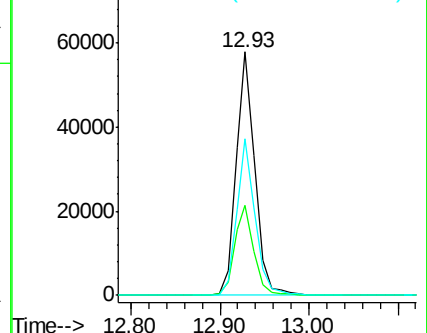
148 64.4 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.856 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

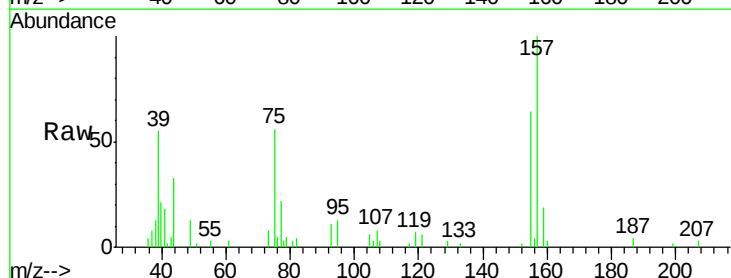
Tgt Ion: 75 Resp: 4473

Ion Ratio Lower Upper

75 100

155 113.9 48.9 146.8

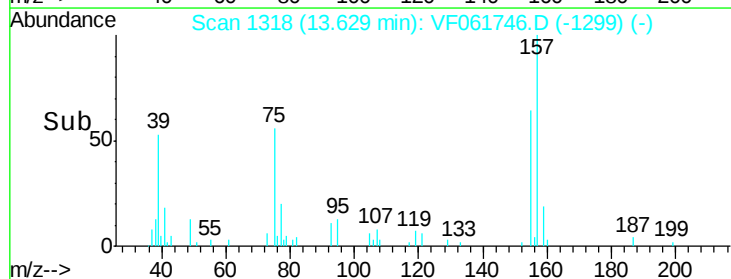
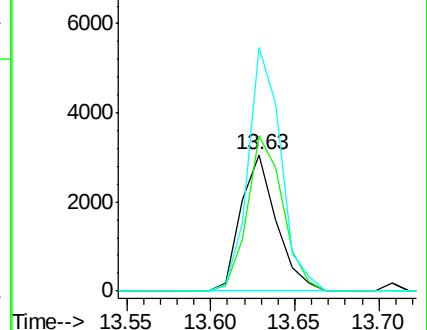
157 178.9 58.3 174.8#

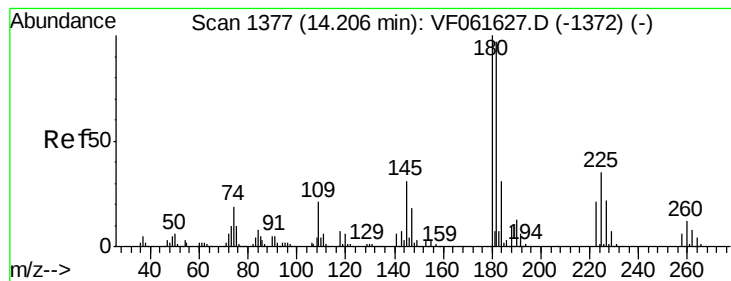


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#93

1,2,4-Trichlorobenzene

Concen: 11.543 ug/l

RT: 14.19 min Scan# 1375

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

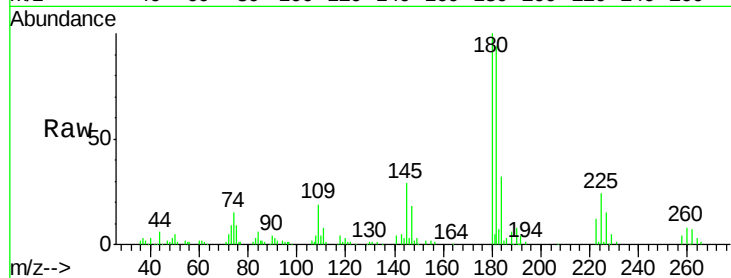
Tot Ion:180 Resp: 60557

Ion Ratio Lower Upper

180 100

182 93.6 48.6 145.9

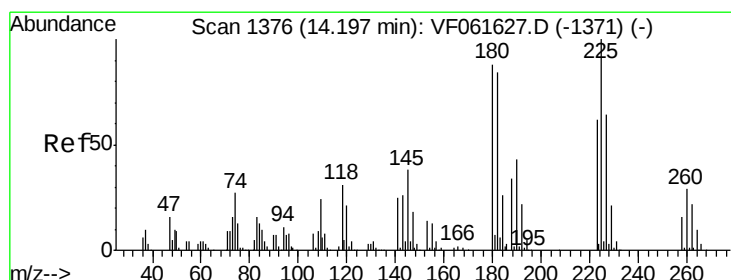
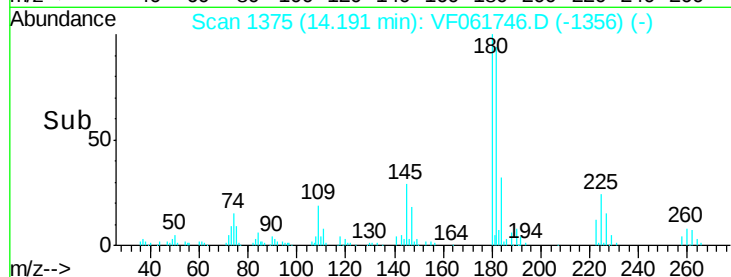
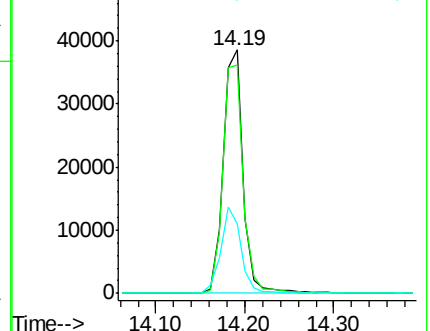
145 28.7 15.3 45.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94

Hexachlorobutadiene

Concen: 12.265 ug/l

RT: 14.18 min Scan# 1374

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

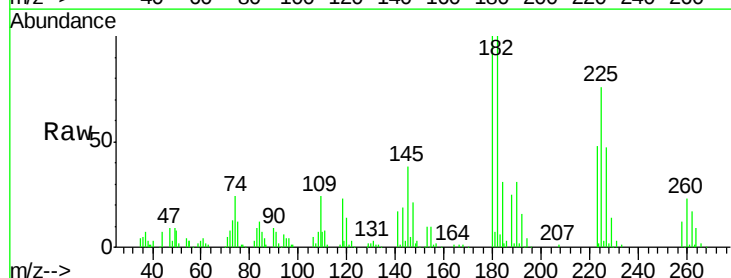
Tgt Ion:225 Resp: 39739

Ion Ratio Lower Upper

225 100

223 64.0 30.9 92.7

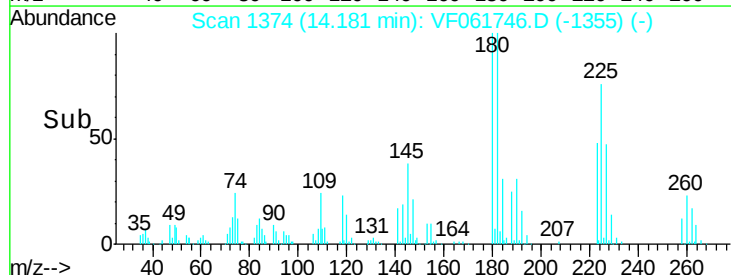
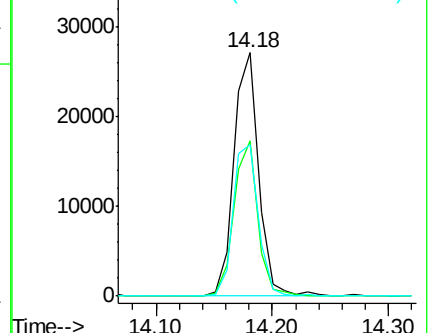
227 62.0 32.1 96.3

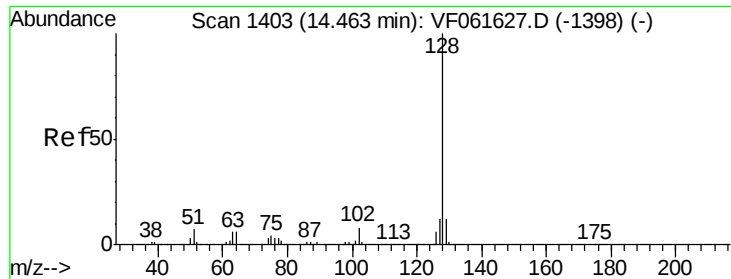


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 10.195 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

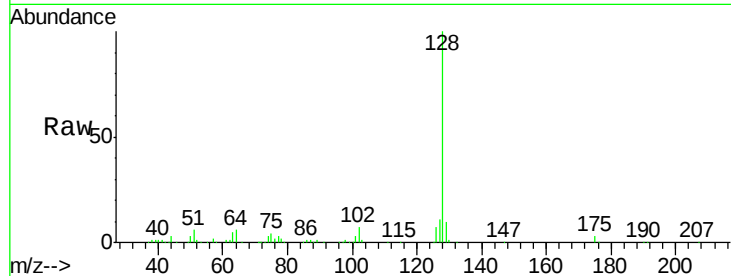
Tot Ion:128 Resp: 93573

Ion Ratio Lower Upper

128 100

127 11.4 9.8 14.6

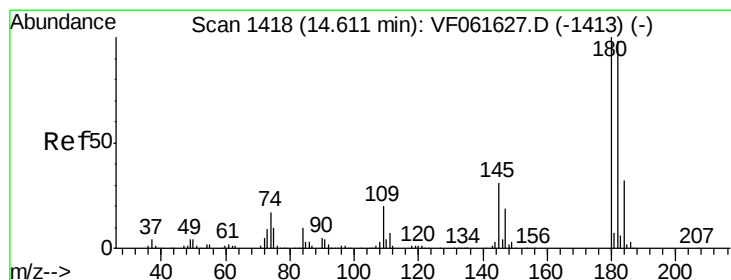
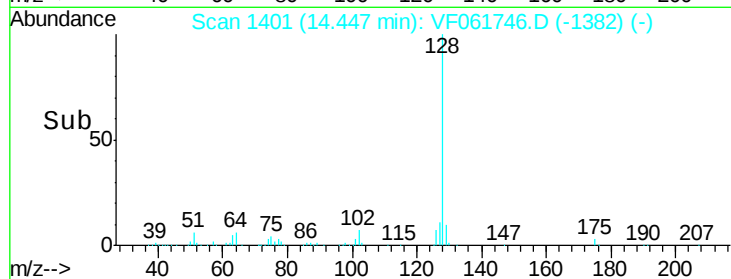
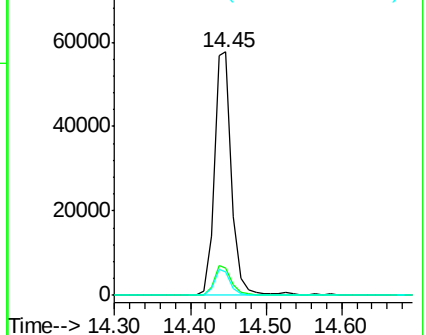
129 9.6 9.4 14.2



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: 10.901 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

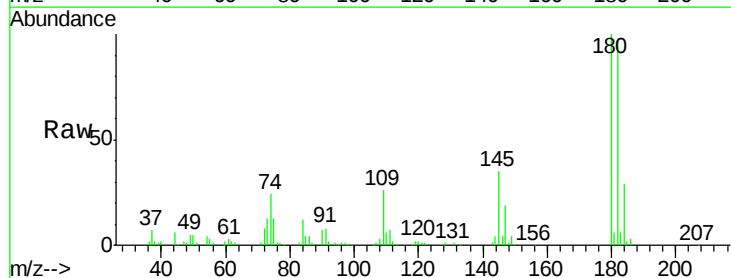
Tgt Ion:180 Resp: 52488

Ion Ratio Lower Upper

180 100

182 97.2 49.0 147.2

145 35.0 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

