

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052219\
 Data File : VF062705.D
 Acq On : 22 May 2019 14:57
 Operator : FY/SY
 Sample : K2978-01
 Misc : 5.17g/5mL/MSVOA F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RO-SOIL

Quant Time: May 23 01:22:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	43996	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	48920	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	20923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	1415	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	3643	11.72	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	23.44%	
35) Dibromofluoromethane	4.29	113	9446	25.23	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	50.46%	
50) Toluene-d8	7.70	98	27162	30.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	60.78%	
62) 4-Bromofluorobenzene	11.49	95	2424	7.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	14.30%	

Target Compounds

						Qvalue
3) Chloromethane	1.22	50	879	1.594	ug/l	94
6) Chloroethane	1.44	64	423	2.270	ug/l #	3
8) Diethyl Ether	1.71	74	219	1.622	ug/l	84
11) Tert butyl alcohol	2.70	59	592	28.842	ug/l #	1
12) 1,1-Dichloroethene	1.85	96	1168	2.955	ug/l #	1
13) Acrolein	2.10	56	260	12.135	ug/l #	42
14) Allyl chloride	2.23	41	1059	2.961	ug/l #	81
15) Acrylonitrile	3.12	53	375	6.477	ug/l #	73
16) Acetone	2.37	43	1351	16.750	ug/l #	78
18) Methyl Acetate	2.37	43	1351	10.659	ug/l	100
20) Methylene Chloride	2.30	84	2334	5.773	ug/l #	54
21) trans-1,2-Dichloroethene	2.45	96	772	1.998	ug/l #	22
23) Vinyl Acetate	3.35	43	966	1.623	ug/l #	73
25) 2-Butanone	4.50	43	1854	10.759	ug/l	100
26) 2,2-Dichloropropane	3.78	77	1382	3.732	ug/l	98
29) Tetrahydrofuran	4.26	42	844	12.103	ug/l #	58
37) Ethyl Acetate	4.31	43	792	3.870	ug/l #	21
41) Methacrylonitrile	4.91	41	653	6.085	ug/l #	37
43) Isopropyl Acetate	7.11	43	1215	4.582	ug/l #	43
45) 1,2-Dichloropropane	6.44	63	523	1.517	ug/l #	34
48) Methyl methacrylate	6.84	41	712	5.137	ug/l #	48
49) 1,4-Dioxane	6.87	88	396	223.084	ug/l #	70
51) 4-Methyl-2-Pentanone	8.35	43	645	3.559	ug/l #	83
53) t-1,3-Dichloropropene	8.39	75	364	1.076	ug/l #	73
58) 2-Chloroethyl Vinyl ether	7.45	63	103	1.253	ug/l #	51
59) 2-Hexanone	9.73	43	1181	Below Cal		99
60) Dibromochloromethane	8.77	129	449	1.625	ug/l	76
64) Tetrachloroethene	8.32	164	573	3.457	ug/l #	13
66) 1,1,1,2-Tetrachloroethane	10.08	131	190	1.152	ug/l	98
67) Ethyl Benzene	10.05	91	1004	1.406	ug/l #	42
68) m/p-Xylenes	10.28	106	310	1.155	ug/l #	1
71) Bromoform	10.87	173	102	1.234	ug/l #	27
73) Isopropylbenzene	11.21	105	538	5.305	ug/l #	45
74) N-amyl acetate	11.43	43	1423	55.769	ug/l #	56

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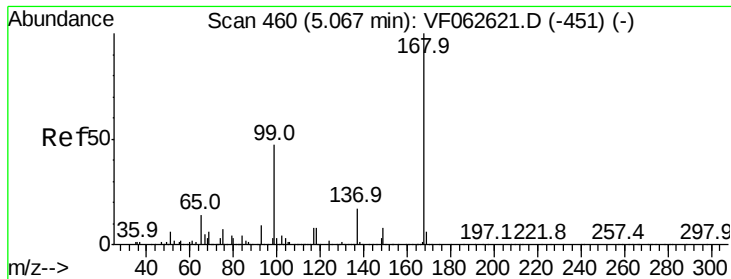
Instrument :
 MSVOA_F
 ClientSampleId :
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Quant Time: May 23 01:22:16 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

75) 1,1,2,2-Tetrachloroethane	11.78	83	98	4.728	ug/l #	85
76) 1,2,3-Trichloropropane	11.73	75	246	18.064	ug/l	76
77) Bromobenzene	11.59	156	85	3.372	ug/l	90
78) n-propylbenzene	11.66	91	476	3.966	ug/l #	50
79) 2-Chlorotoluene	11.83	91	898	13.276	ug/l	99
80) 1,3,5-Trimethylbenzene	12.01	105	208	2.558	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.97	75	482	79.626	ug/l #	1
82) 4-Chlorotoluene	11.83	91	405	6.072	ug/l	96
83) tert-Butylbenzene	12.17	119	820	9.939	ug/l #	32
84) 1,2,4-Trimethylbenzene	12.24	105	293	3.723	ug/l	89
85) sec-Butylbenzene	12.37	105	441	3.983	ug/l #	54
86) p-Isopropyltoluene	12.54	119	183	1.961	ug/l #	74
87) 1,3-Dichlorobenzene	12.51	146	98	2.149	ug/l #	23
88) 1,4-Dichlorobenzene	12.65	146	174	4.065	ug/l #	46
89) n-Butylbenzene	12.92	91	336	3.652	ug/l #	25
90) Hexachloroethane	12.99	117	153	6.835	ug/l	75
91) 1,2-Dichlorobenzene	12.95	146	65	1.599	ug/l #	23
92) 1,2-Dibromo-3-Chloropropan	13.70	75	158	63.903	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.26	180	177	6.082	ug/l #	11
94) Hexachlorobutadiene	14.24	225	66	3.250	ug/l #	16
95) Naphthalene	14.47	128	63	1.192	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.59	180	60	2.177	ug/l #	66

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

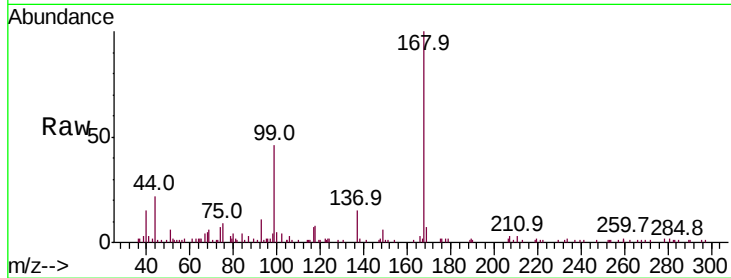
Instrument :
MSVOA_F
ClientSampleId :
RO-SOIL

Tot Ion:168 Resp: 43996

Ion Ratio Lower Upper

168 100

99 45.6 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

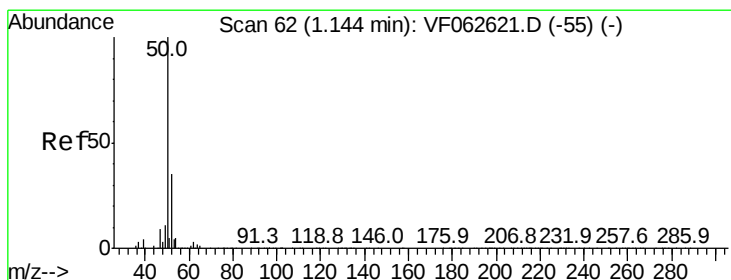
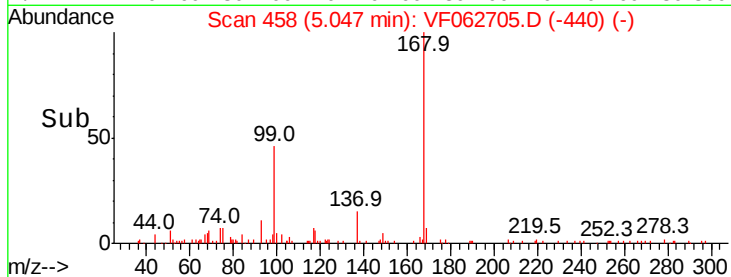
15000

10000

5000

0

Time-->



#3

Chloromethane

Concen: 1.594 ug/l

RT: 1.22 min Scan# 70

Delta R.T. 0.08 min

Lab File: VF062705.D

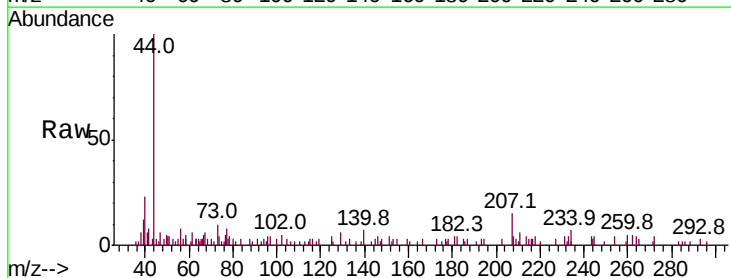
Acq: 22 May 2019 14:57

Tgt Ion: 50 Resp: 879

Ion Ratio Lower Upper

50 100

52 38.0 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

600

500

400

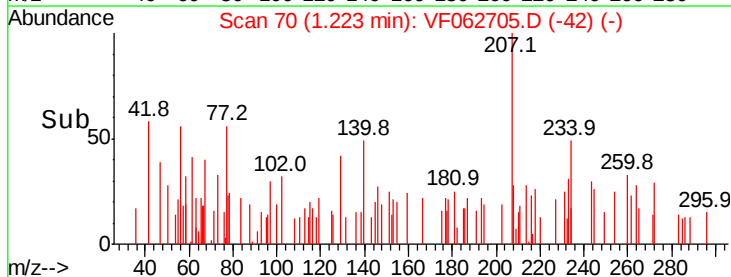
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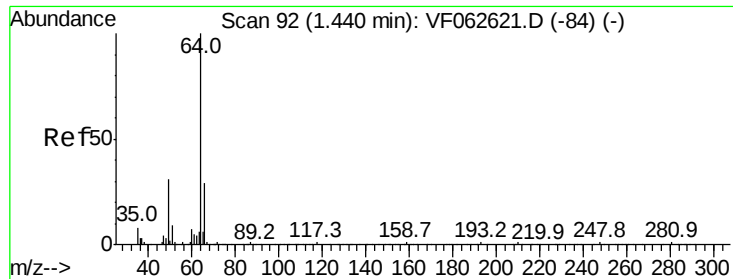
200

100

0

Time-->





#6

Chloroethane

Concen: 2.270 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

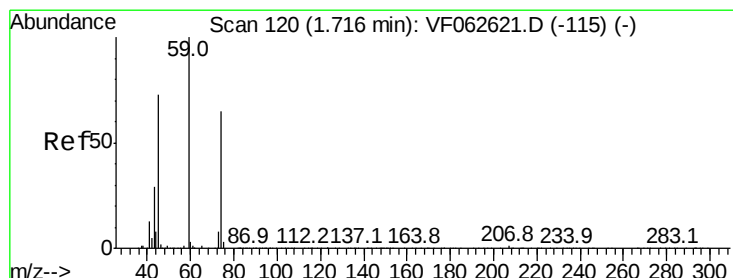
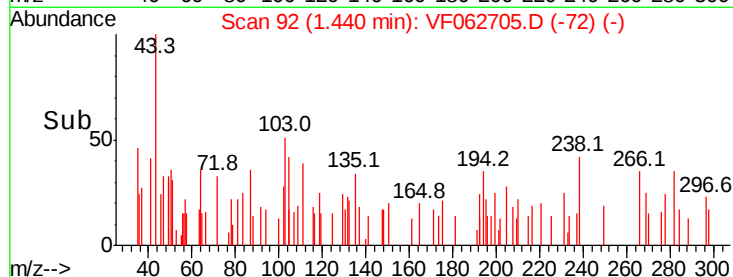
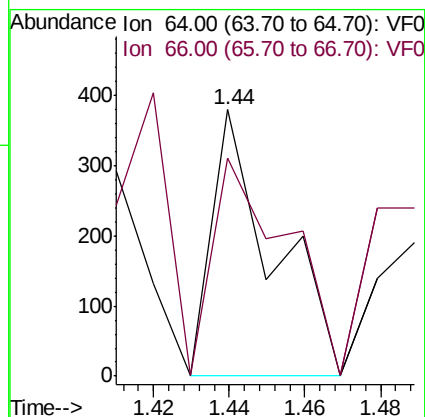
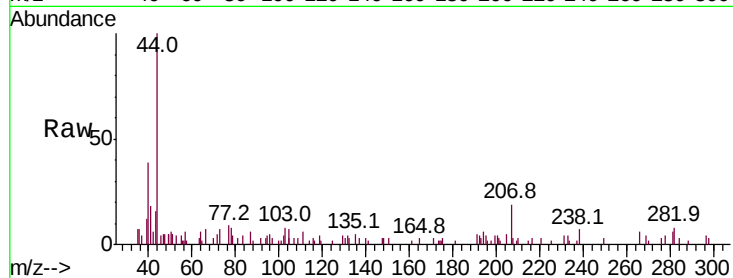
RO-SOIL

Tot Ion: 64 Resp: 423

Ion Ratio Lower Upper

64 100

66 81.6 23.4 35.2#



#8

Diethyl Ether

Concen: 1.622 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.01 min

Lab File: VF062705.D

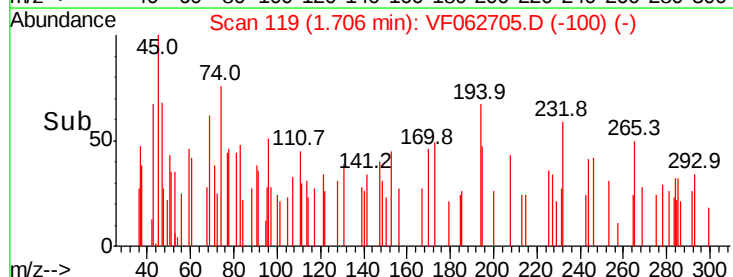
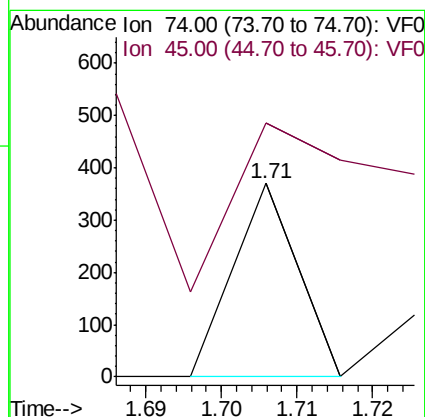
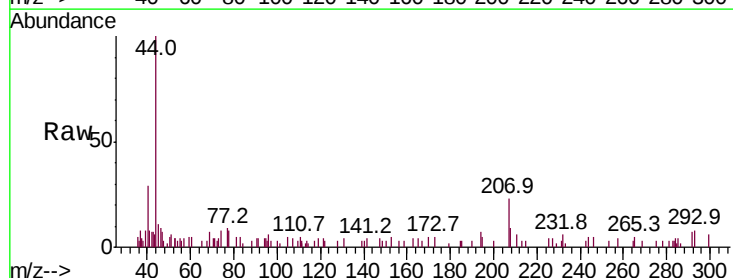
Acq: 22 May 2019 14:57

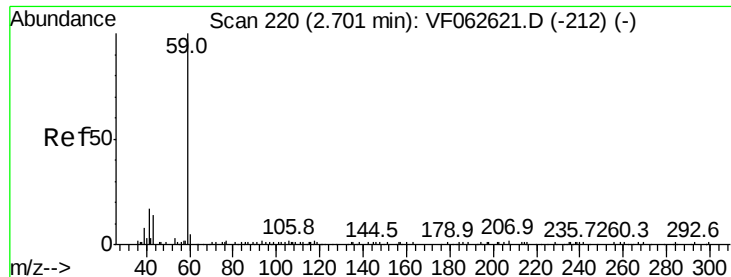
Tgt Ion: 74 Resp: 219

Ion Ratio Lower Upper

74 100

45 131.1 57.0 170.8



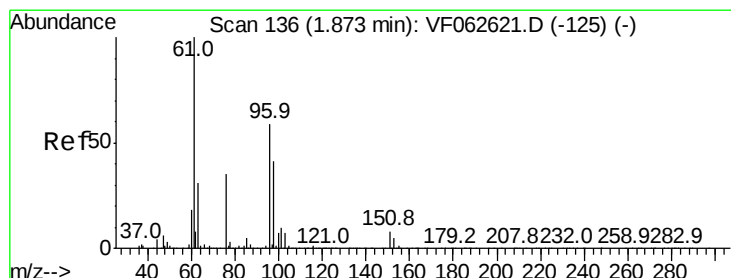
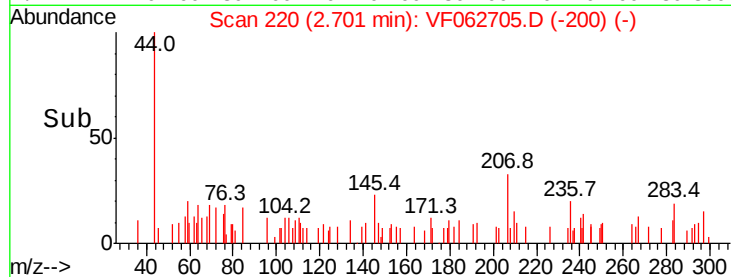
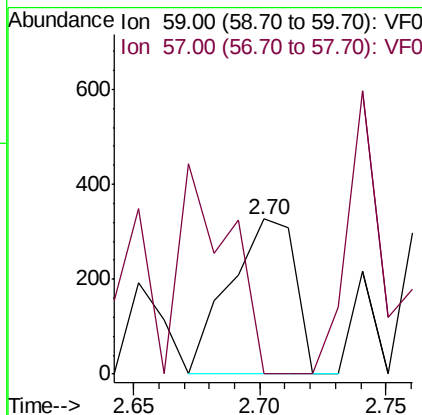


#11

Tert butyl alcohol
 Concen: 28.842 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

Instrument :
 MSVOA_F
 ClientSampled :
 RO-SOIL

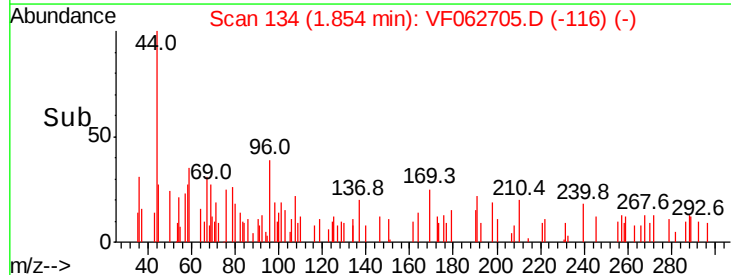
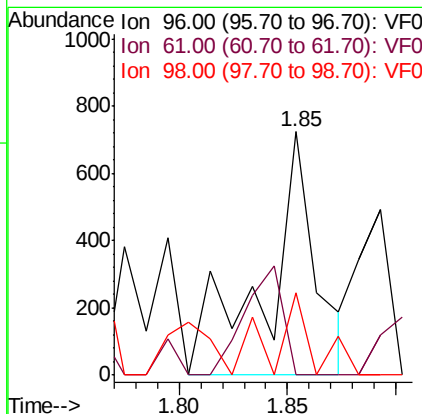
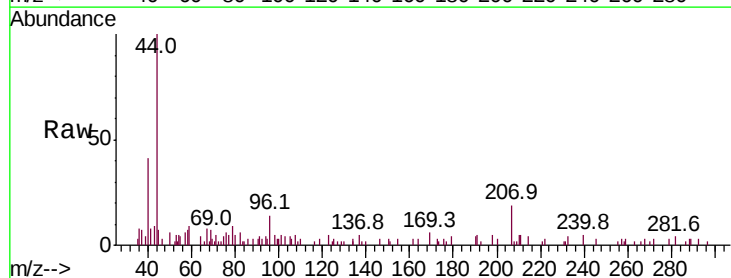
Tot Ion: 59 Resp: 592
 Ion Ratio Lower Upper
 59 100
 57 65.4 9.3 13.9#

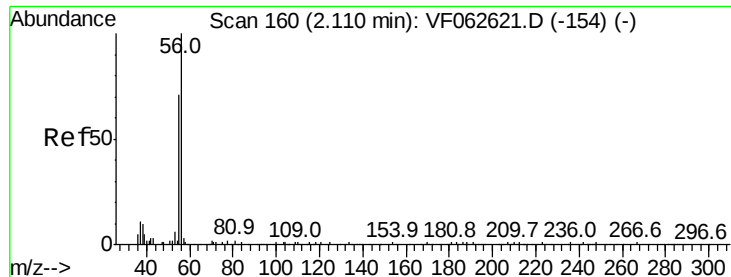


#12

1,1-Dichloroethene
 Concen: 2.955 ug/l
 RT: 1.85 min Scan# 134
 Delta R.T. -0.02 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

Tgt Ion: 96 Resp: 1168
 Ion Ratio Lower Upper
 96 100
 61 0.0 134.3 201.5#
 98 33.7 55.0 82.6#

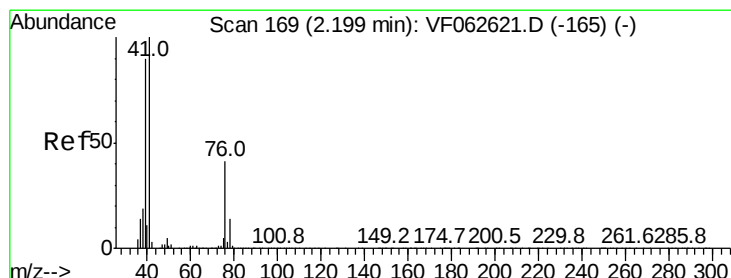
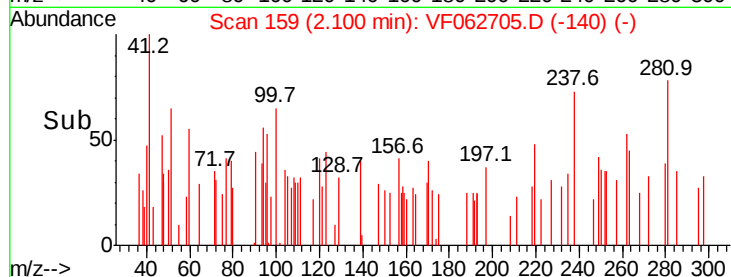
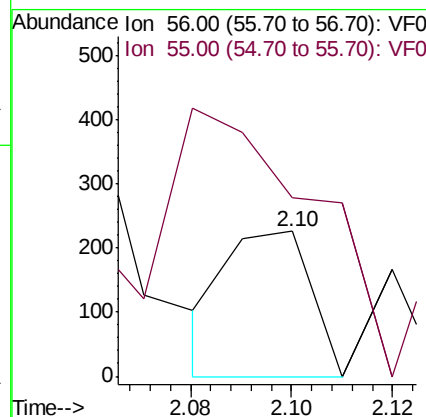
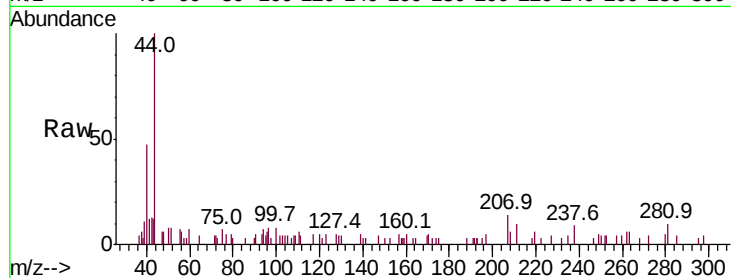




#13
Acrolein
Concen: 12.135 ug/l
RT: 2.10 min Scan# 159
Delta R.T. -0.01 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

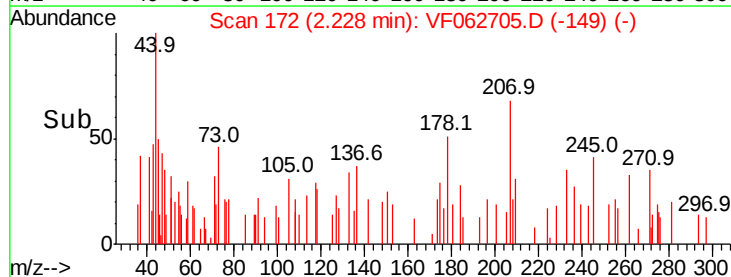
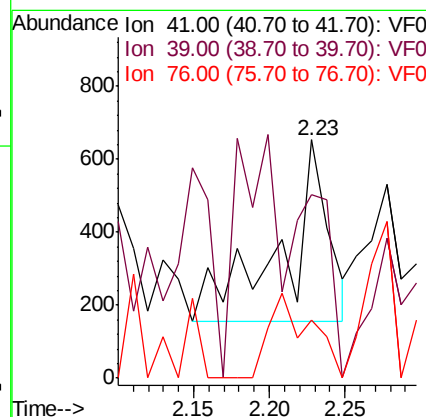
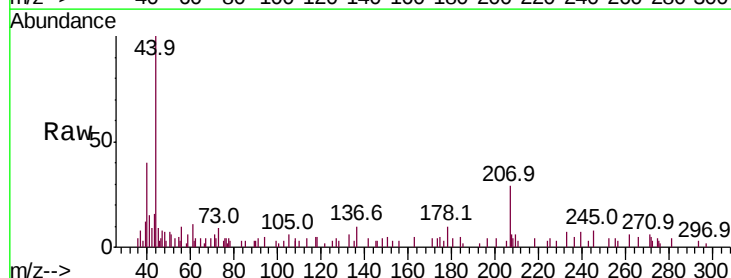
Instrument :
MSVOA_F
ClientSampled :
RO-SOIL

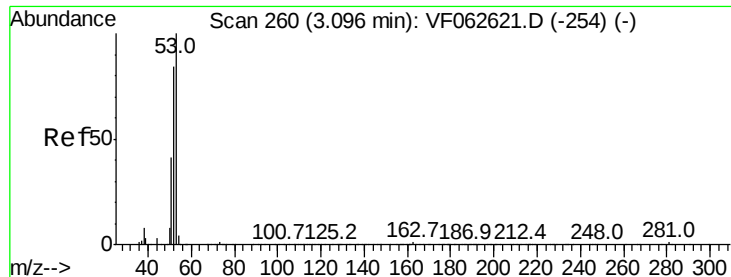
Tot Ion: 56 Resp: 260
Ion Ratio Lower Upper
56 100
55 123.0 59.4 89.0#



#14
Allyl chloride
Concen: 2.961 ug/l
RT: 2.23 min Scan# 172
Delta R.T. 0.03 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

Tgt Ion: 41 Resp: 1059
Ion Ratio Lower Upper
41 100
39 77.3 72.0 108.0
76 24.3 34.8 52.2#





#15

Acrylonitrile

Concen: 6.477 ug/l

RT: 3.12 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

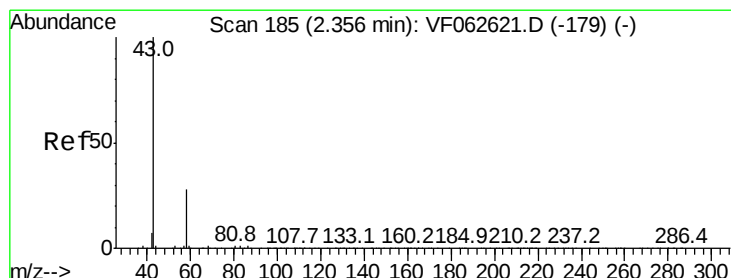
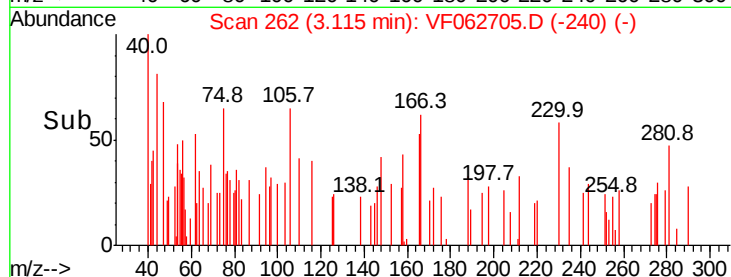
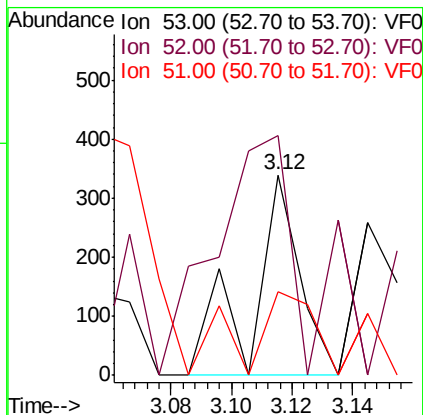
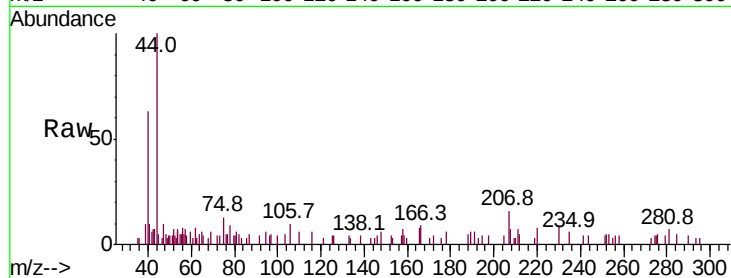
Tot Ion: 53 Resp: 375

Ion Ratio Lower Upper

53 100

52 119.8 67.3 100.9#

51 41.6 33.0 49.6



#16

Acetone

Concen: 16.750 ug/l

RT: 2.37 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062705.D

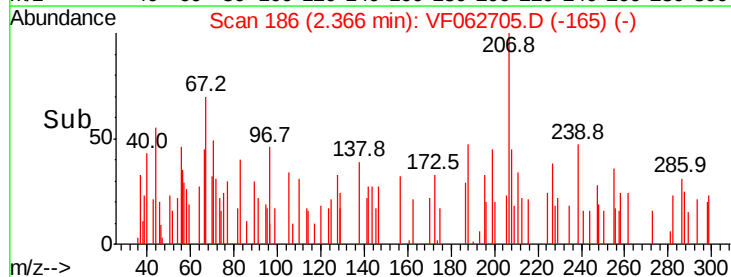
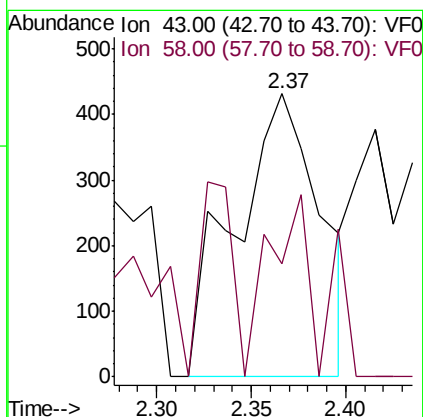
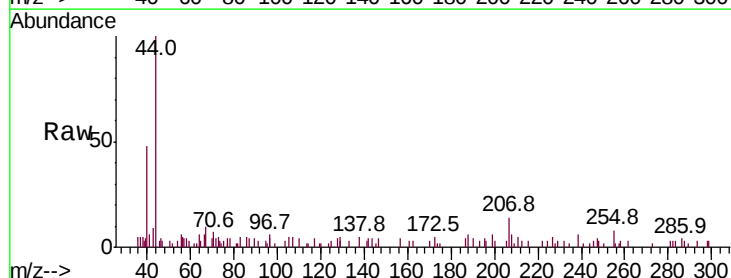
Acq: 22 May 2019 14:57

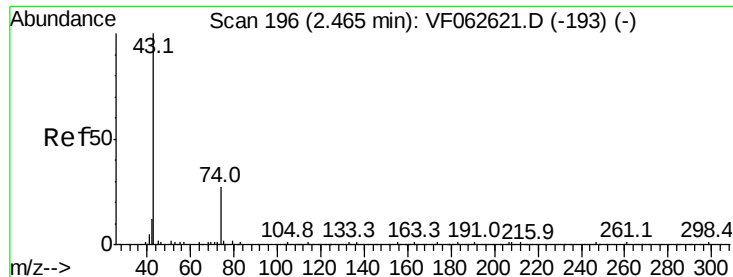
Tgt Ion: 43 Resp: 1351

Ion Ratio Lower Upper

43 100

58 39.8 22.6 33.8#

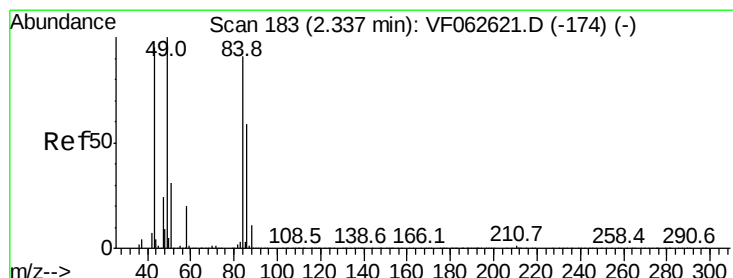
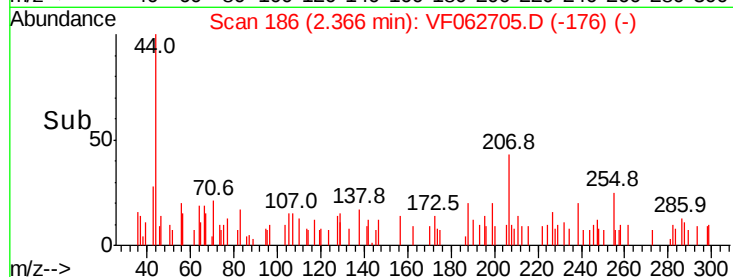
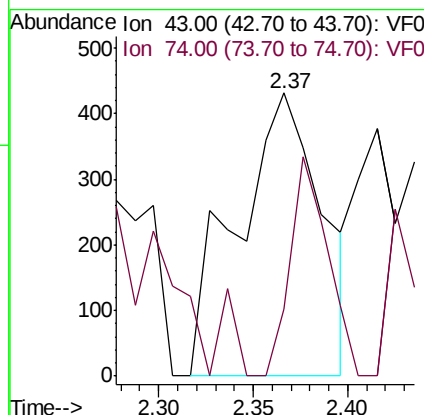
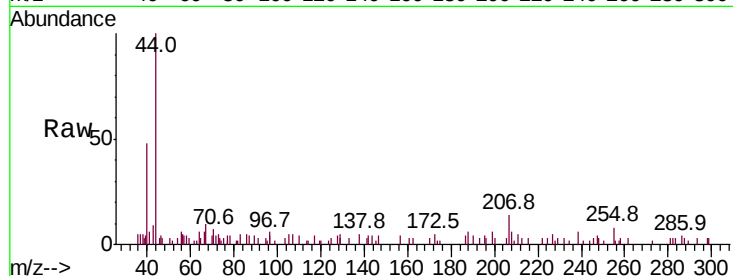




#18
Methvl Acetate
Concen: 10.659 ug/l
RT: 2.37 min Scan# 186
Delta R.T. -0.10 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

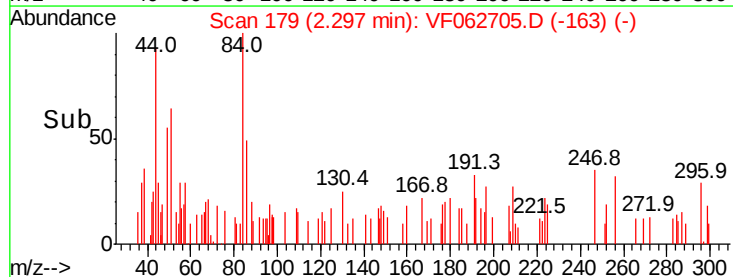
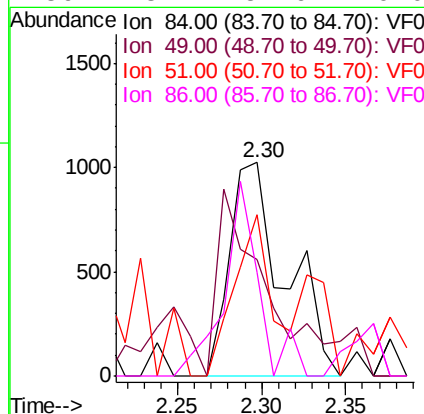
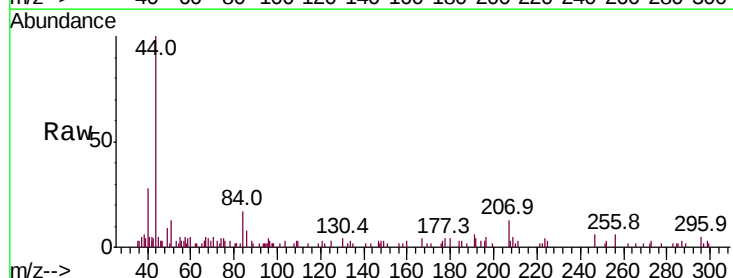
Instrument :
MSVOA_F
ClientSampleId :
RO-SOIL

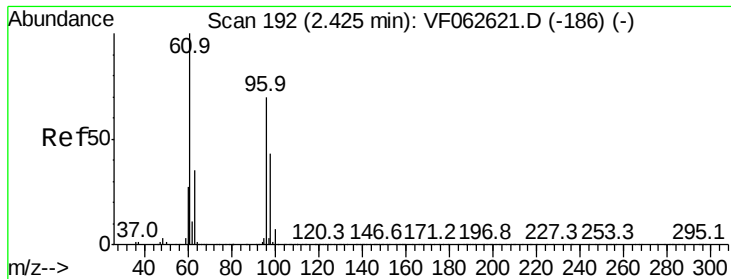
Tot Ion: 43 Resp: 1351
Ion Ratio Lower Upper
43 100
74 23.6 18.9 28.3



#20
Methylene Chloride
Concen: 5.773 ug/l
RT: 2.30 min Scan# 179
Delta R.T. -0.04 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

Tgt Ion: 84 Resp: 2334
Ion Ratio Lower Upper
84 100
49 54.5 89.8 134.8#
51 75.5 28.4 42.6#
86 48.7 52.6 79.0#





#21

trans-1,2-Dichloroethene

Concen: 1.998 ug/l

RT: 2.45 min Scan# 195

Delta R.T. 0.03 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

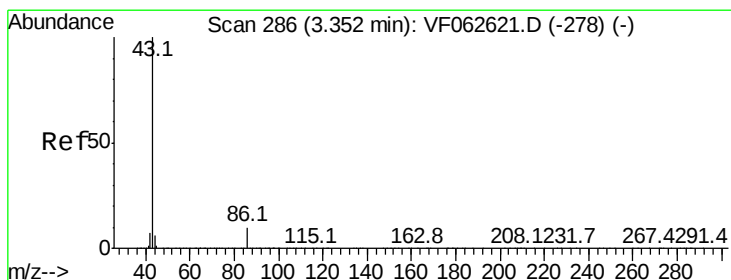
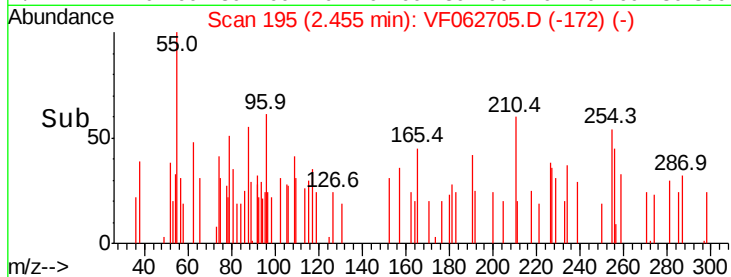
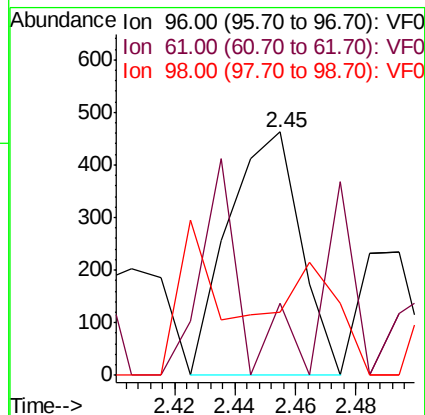
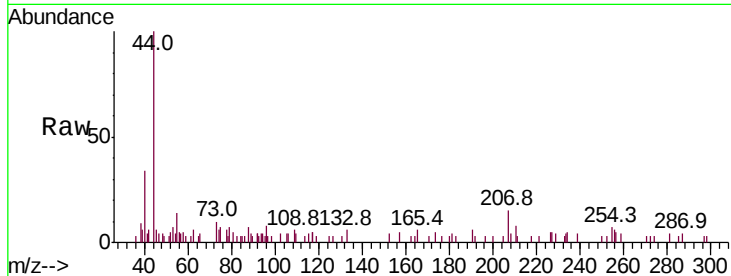
Tot Ion: 96 Resp: 772

Ion Ratio Lower Upper

96 100

61 29.6 114.6 171.8#

98 25.7 49.5 74.3#



#23

Vinyl Acetate

Concen: 1.623 ug/l

RT: 3.35 min Scan# 286

Delta R.T. -0.00 min

Lab File: VF062705.D

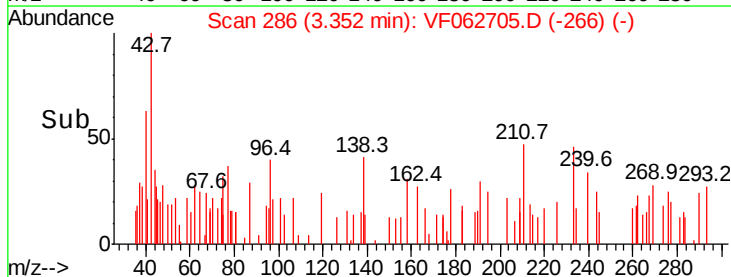
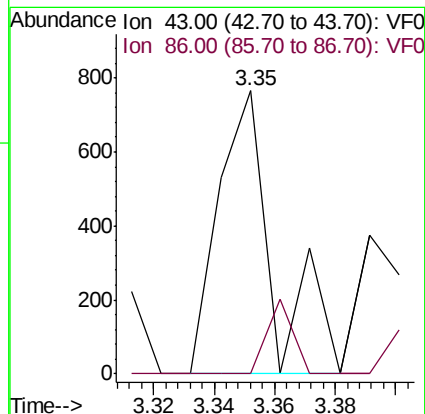
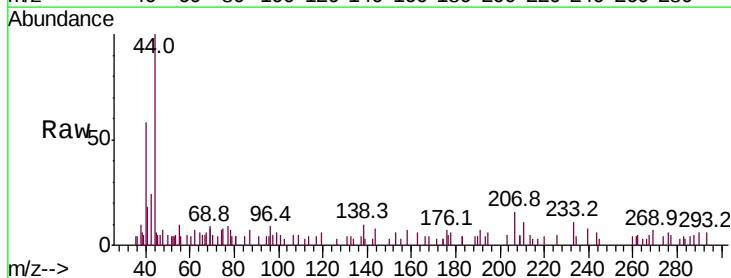
Acq: 22 May 2019 14:57

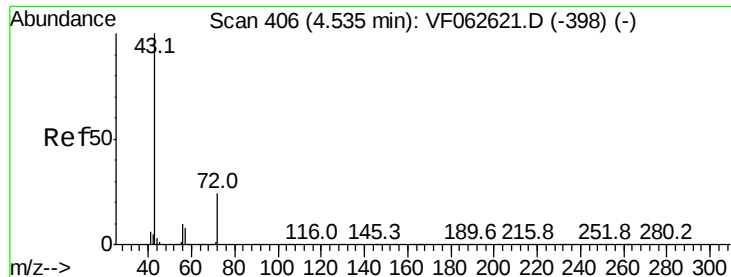
Tgt Ion: 43 Resp: 966

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.2#





#25

2-Butanone

Concen: 10.759 ug/l

RT: 4.50 min Scan# 402

Delta R.T. -0.04 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

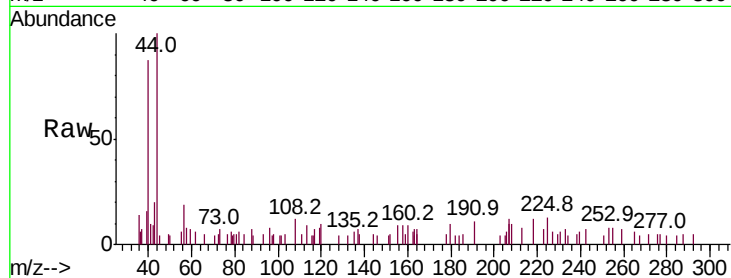
RO-SOIL

Tot Ion: 43 Resp: 1854

Ion Ratio Lower Upper

43 100

72 25.3 20.1 30.1



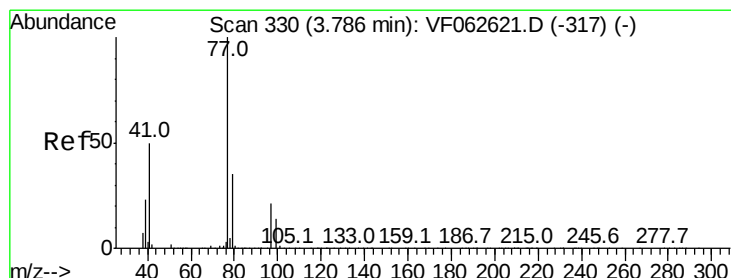
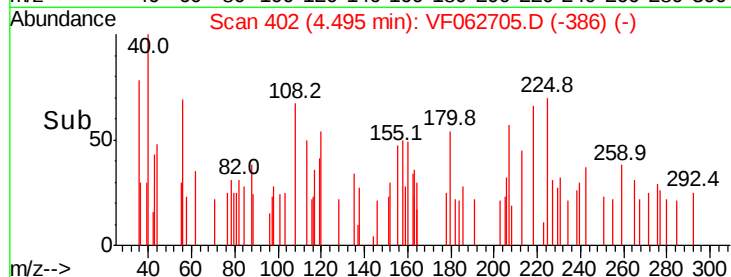
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.50

4.55

Time-->



#26

2,2-Dichloropropane

Concen: 3.732 ug/l

RT: 3.78 min Scan# 329

Delta R.T. -0.01 min

Lab File: VF062705.D

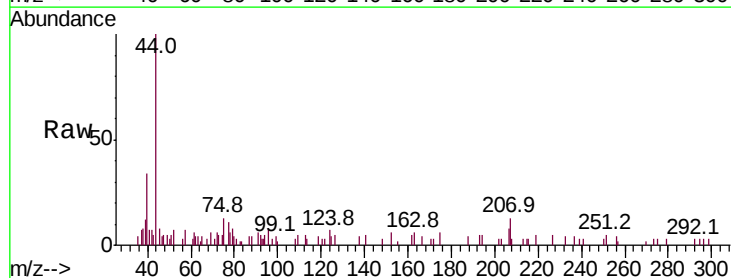
Acq: 22 May 2019 14:57

Tgt Ion: 77 Resp: 1382

Ion Ratio Lower Upper

77 100

97 27.3 14.1 42.4



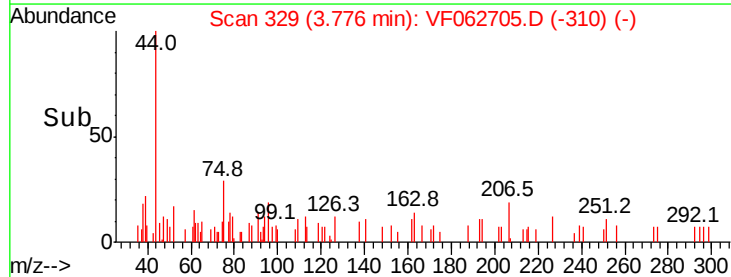
Abundance Ion 77.00 (76.70 to 77.70): VF0

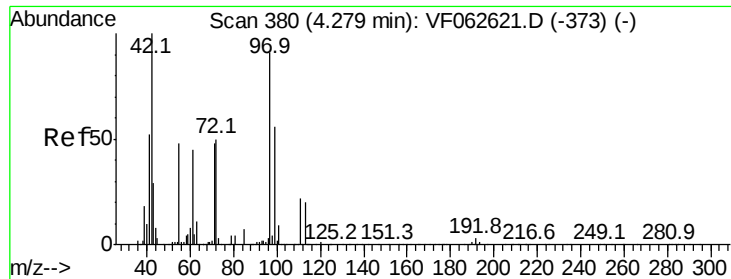
Ion 97.00 (96.70 to 97.70): VF0

3.78

3.80

Time-->





#29

Tetrahydrofuran

Concen: 12.103 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampleID :

RO-SOIL

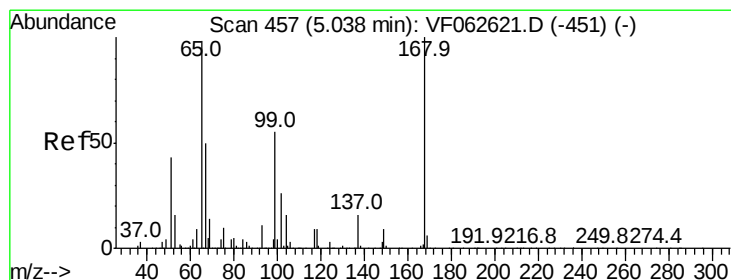
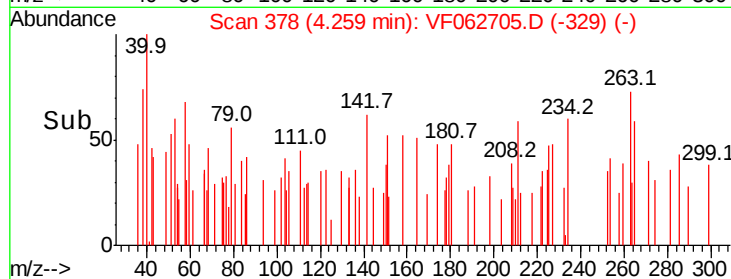
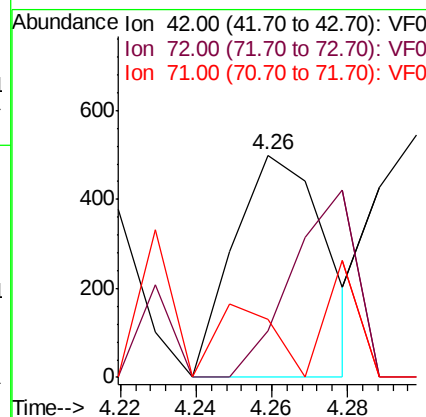
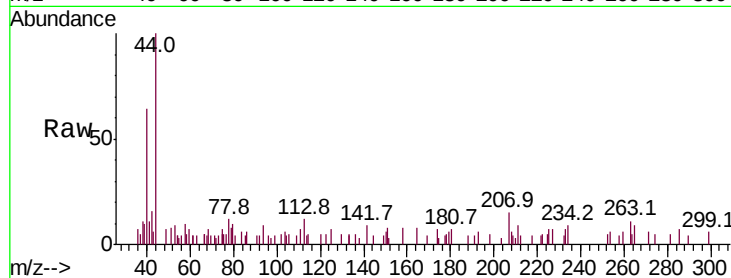
Tot Ion: 42 Resp: 844

Ion Ratio Lower Upper

42 100

72 59.0 38.2 57.2#

71 0.0 35.8 53.6#



#33

1,2-Dichloroethane-d4

Concen: 11.718 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF062705.D

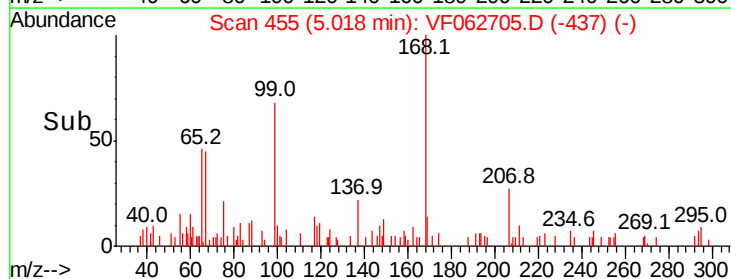
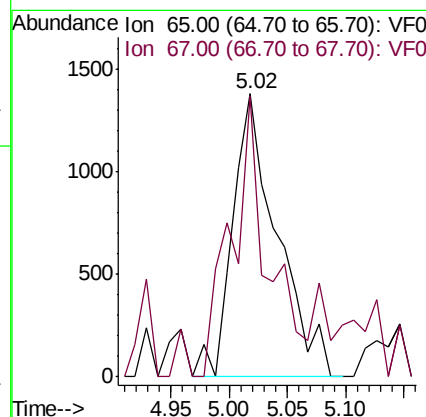
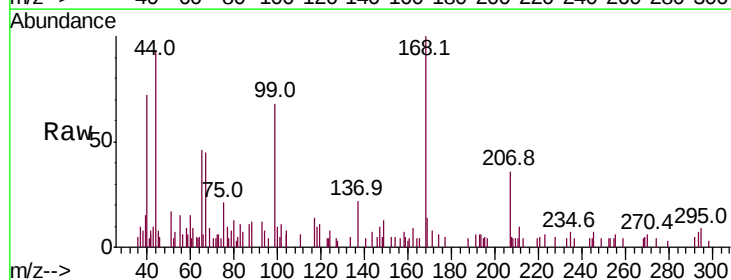
Acq: 22 May 2019 14:57

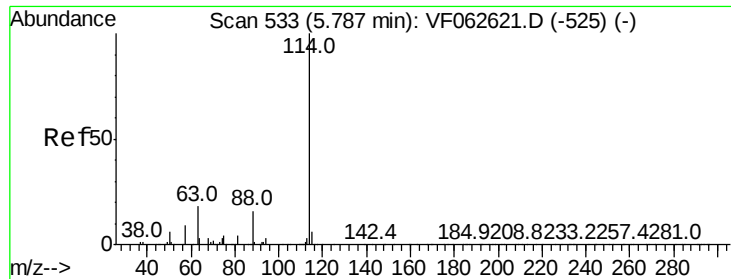
Tgt Ion: 65 Resp: 3643

Ion Ratio Lower Upper

65 100

67 99.2 0.0 117.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

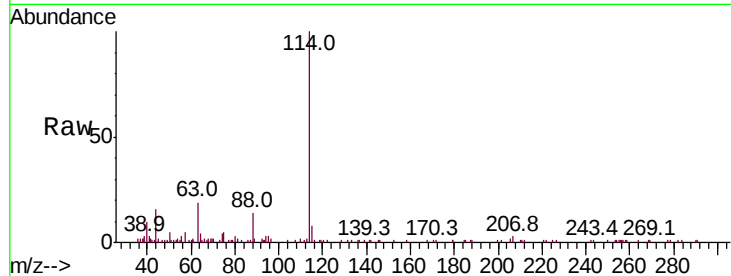
Tot Ion:114 Resp: 48920

Ion Ratio Lower Upper

114 100

63 19.2 0.0 35.4

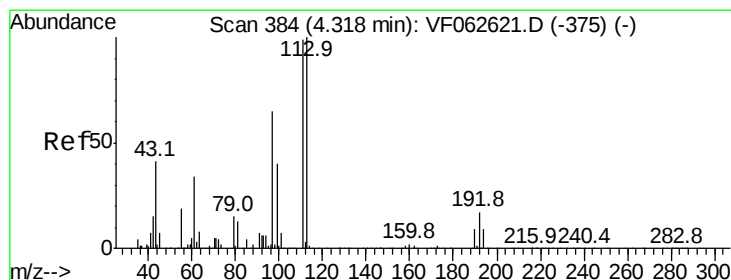
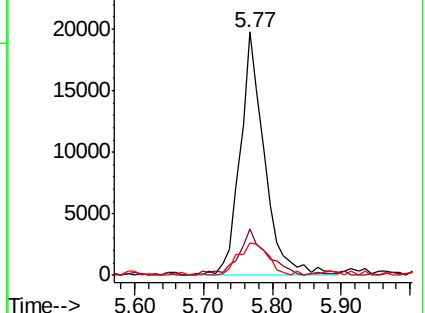
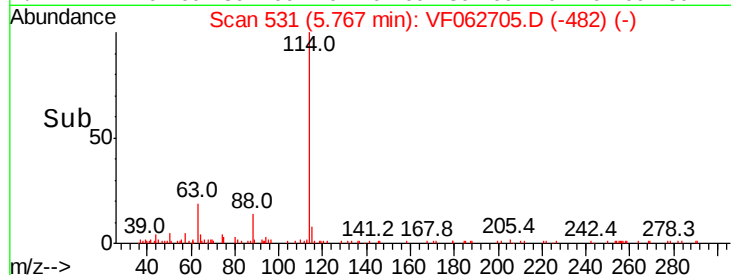
88 13.6 0.0 32.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 25.234 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.03 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

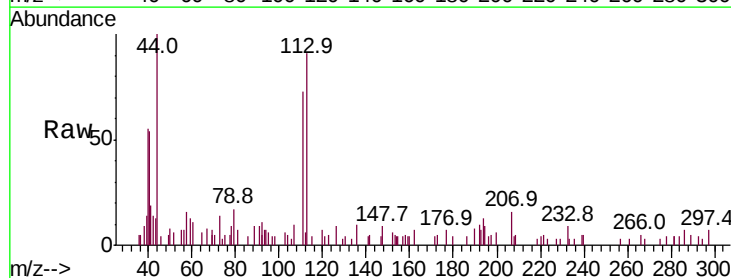
Tgt Ion:113 Resp: 9446

Ion Ratio Lower Upper

113 100

111 80.8 79.4 119.2

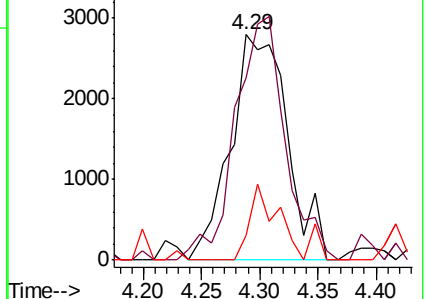
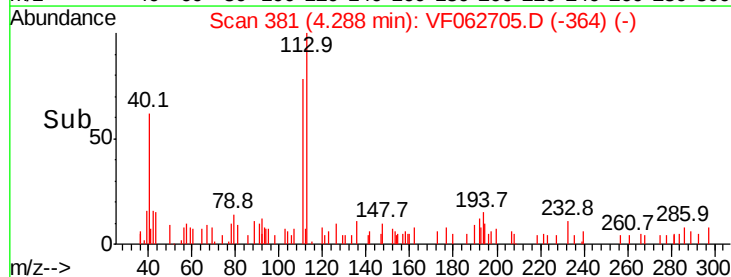
192 11.2 13.4 20.2#

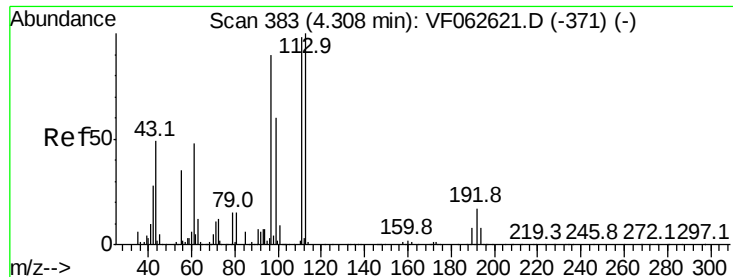


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 3.870 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.00 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

RO-SOIL

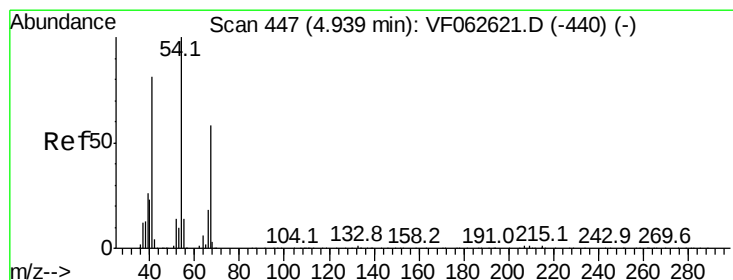
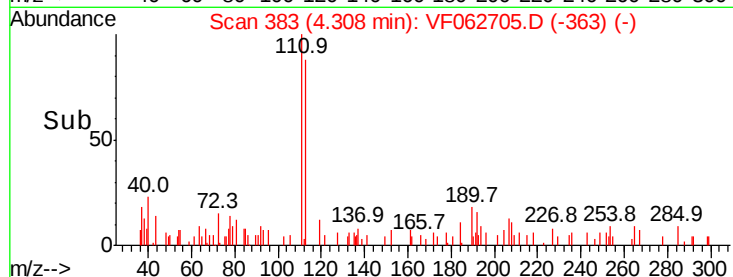
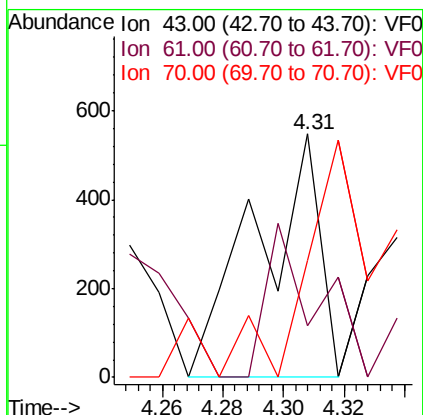
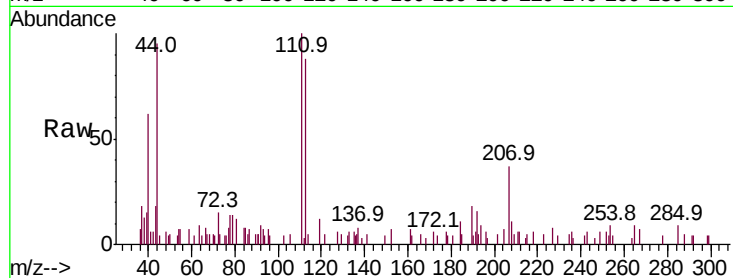
Tot Ion: 43 Resp: 792

Ion Ratio Lower Upper

43 100

61 21.2 76.9 115.3#

70 48.0 8.8 13.2#



#41

Methacrylonitrile

Concen: 6.085 ug/l

RT: 4.91 min Scan# 444

Delta R.T. -0.03 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Tgt Ion: 41 Resp: 653

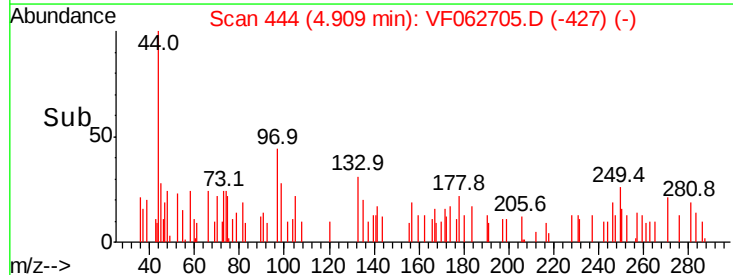
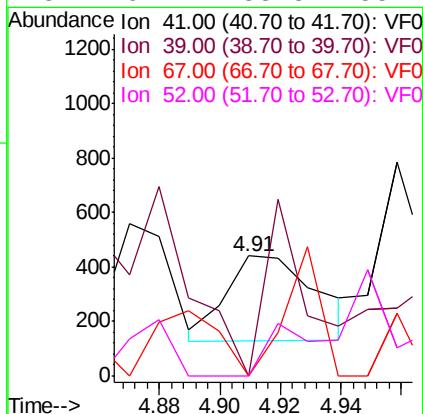
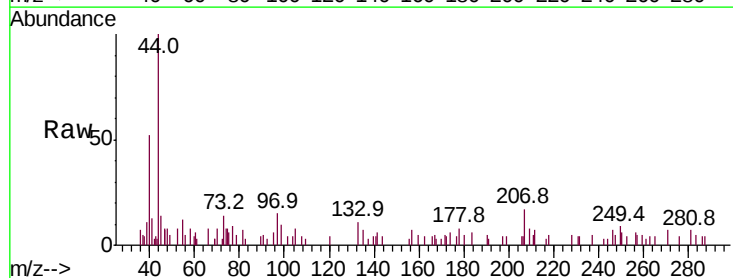
Ion Ratio Lower Upper

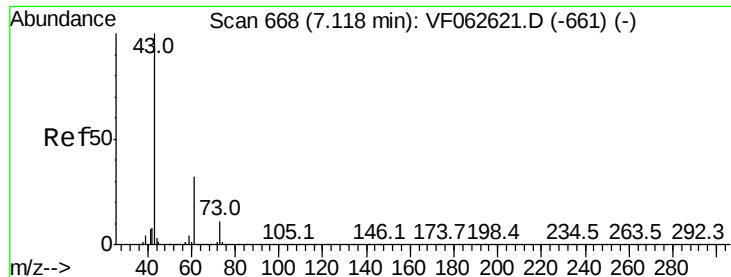
41 100

39 0.0 42.2 63.2#

67 0.0 56.4 84.6#

52 61.7 38.8 58.2#





#43

Isopropyl Acetate

Concen: 4.582 ug/l

RT: 7.11 min Scan# 667

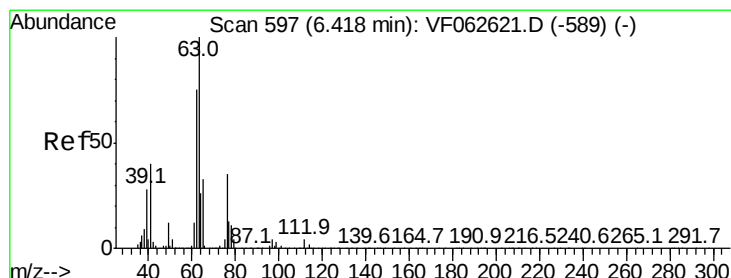
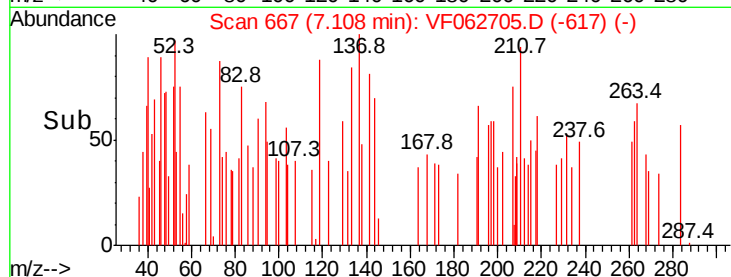
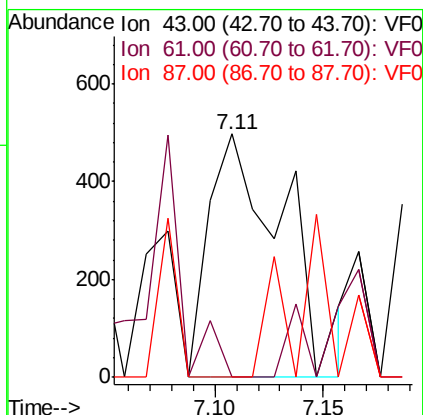
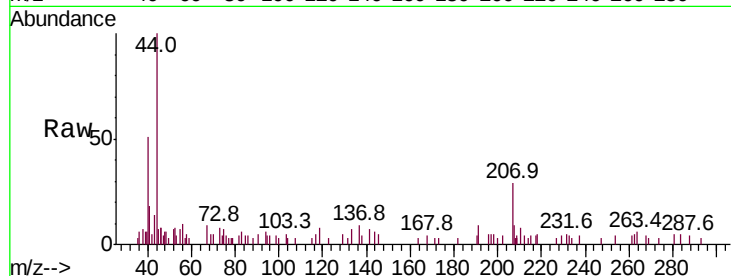
Delta R.T. -0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :
MSVOA_F
ClientSampled :
RO-SOIL

Tot Ion:	43	Resp:	1215
Ion	Ratio	Lower	Upper
43	100		
61	0.0	25.8	38.8#
87	0.0	0.4	0.6#



#45

1,2-Dichloropropane

Concen: 1.517 ug/l

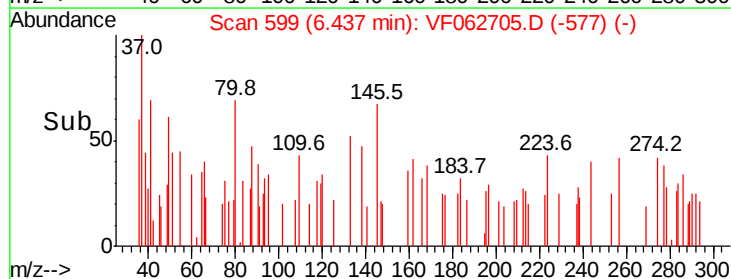
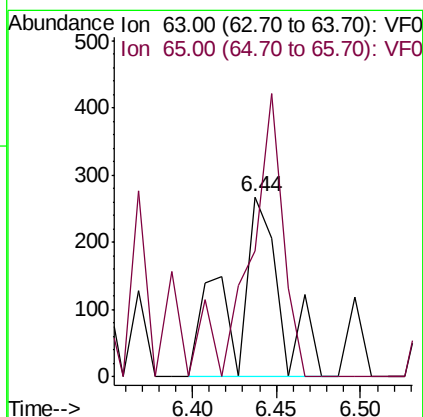
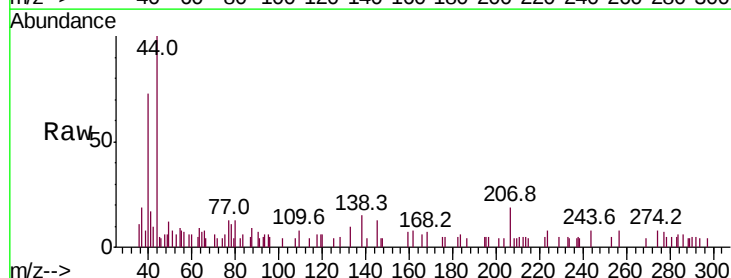
RT: 6.44 min Scan# 599

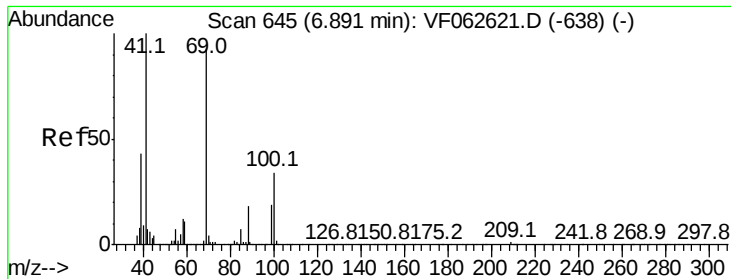
Delta R.T. 0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Tgt Ion:	63	Resp:	523
Ion	Ratio	Lower	Upper
63	100		
65	70.0	26.3	39.5#





#48

Methyl methacrylate

Concen: 5.137 ug/l

RT: 6.84 min Scan# 640

Delta R.T. -0.05 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

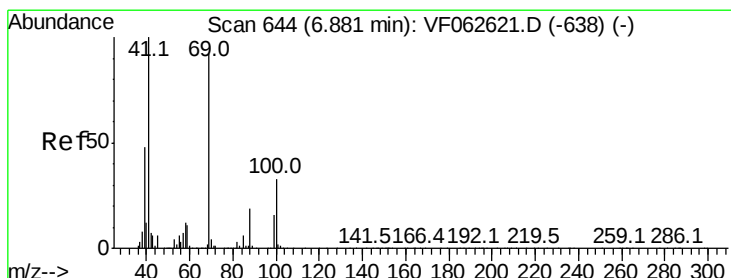
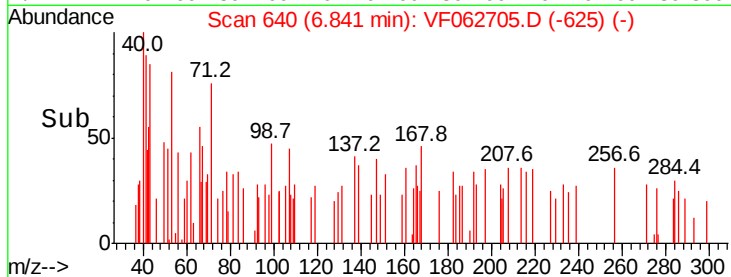
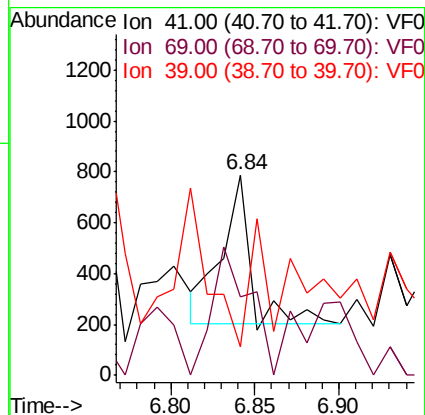
Tot Ion: 41 Resp: 712

Ion Ratio Lower Upper

41 100

69 39.2 74.2 111.2#

39 14.5 34.2 51.4#



#49

1,4-Dioxane

Concen: 223.084 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

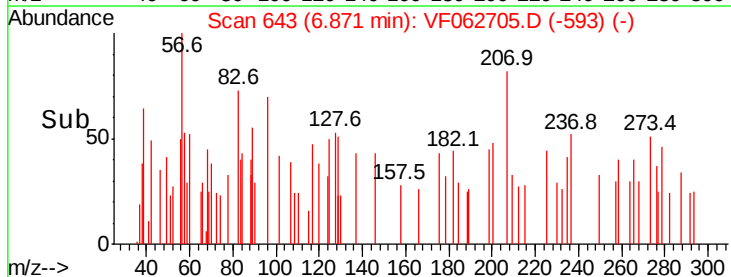
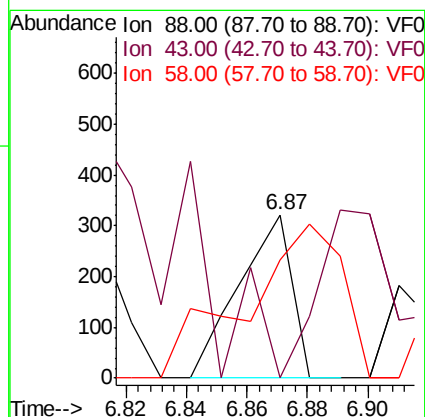
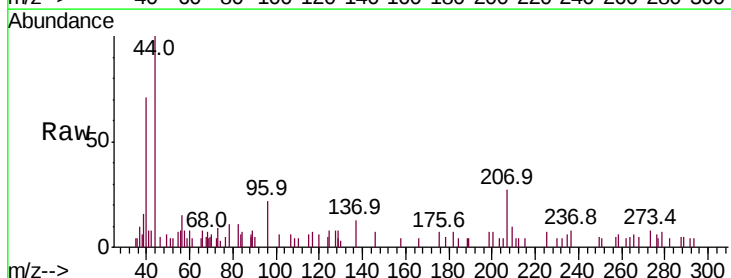
Tgt Ion: 88 Resp: 396

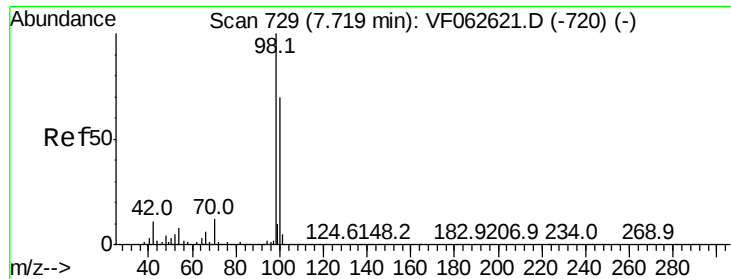
Ion Ratio Lower Upper

88 100

43 0.0 30.0 45.0#

58 72.3 51.1 76.7





#50

Toluene-d8

Concen: 30.390 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

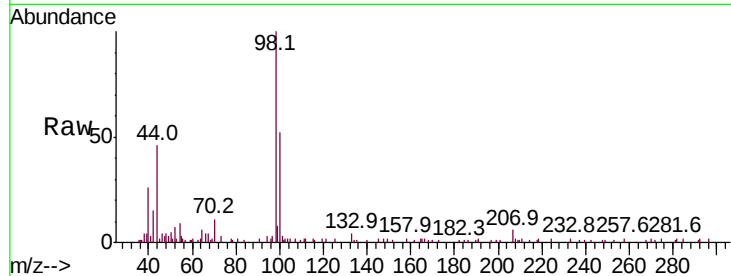
RO-SOIL

Tot Ion: 98 Resp: 27162

Ion Ratio Lower Upper

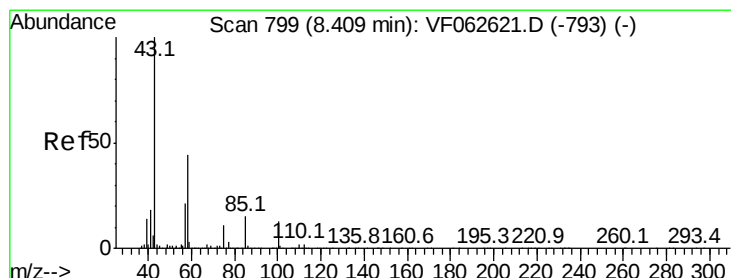
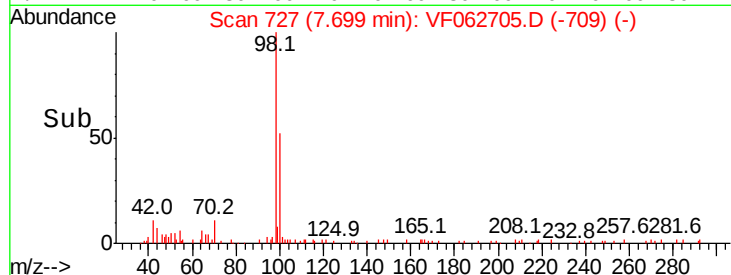
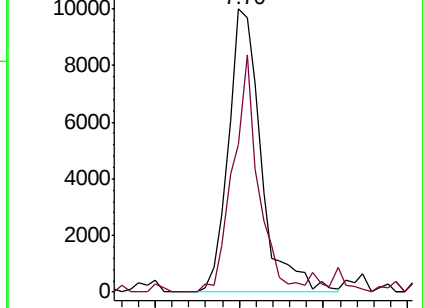
98 100

100 52.1 56.2 84.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 3.559 ug/l

RT: 8.35 min Scan# 793

Delta R.T. -0.06 min

Lab File: VF062705.D

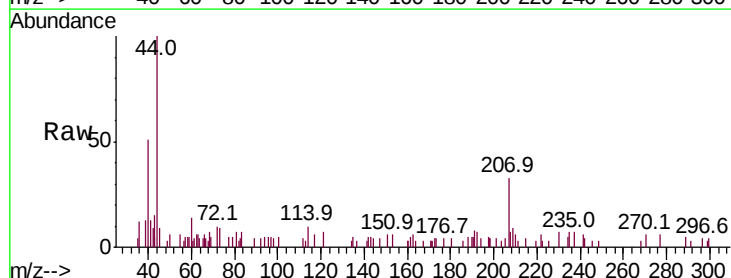
Acq: 22 May 2019 14:57

Tgt Ion: 43 Resp: 645

Ion Ratio Lower Upper

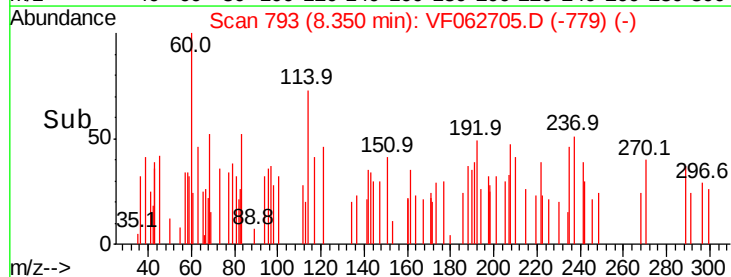
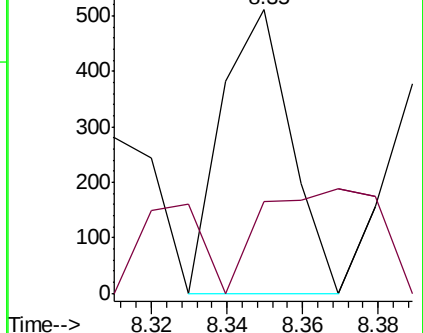
43 100

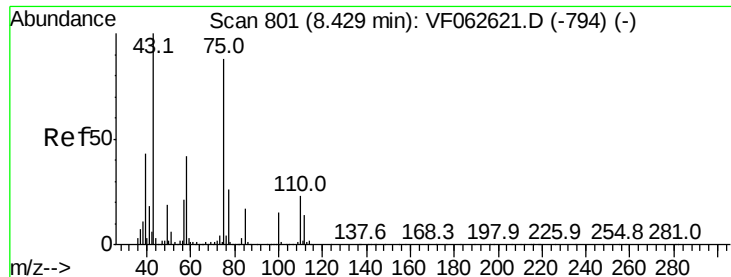
58 32.5 34.9 52.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

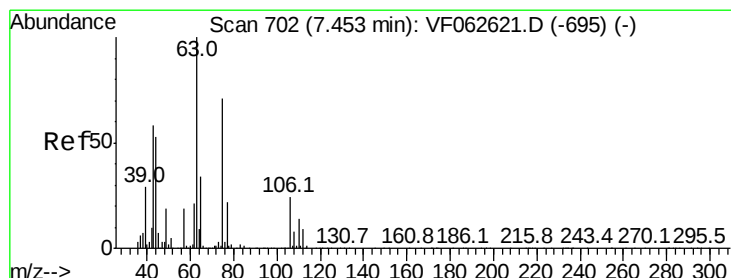
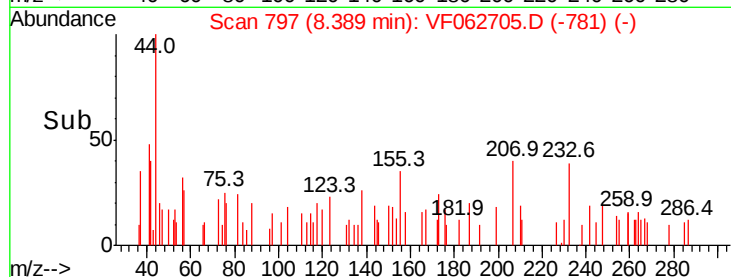
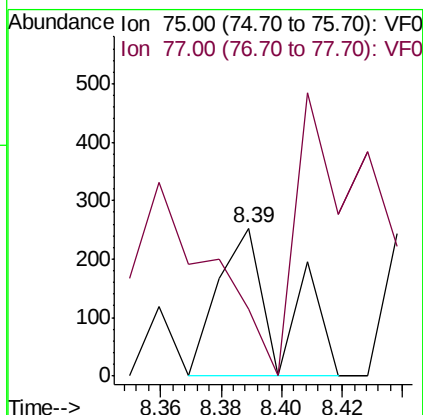
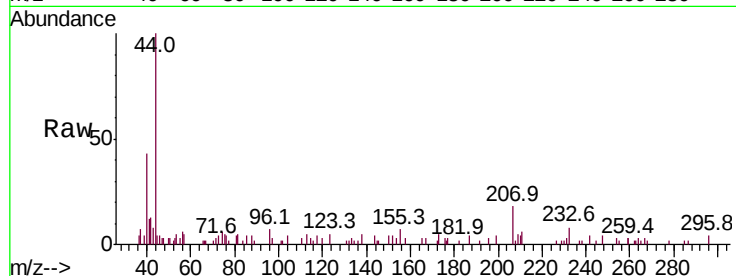




#53
t-1,3-Dichloropropene
Concen: 1.076 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.04 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

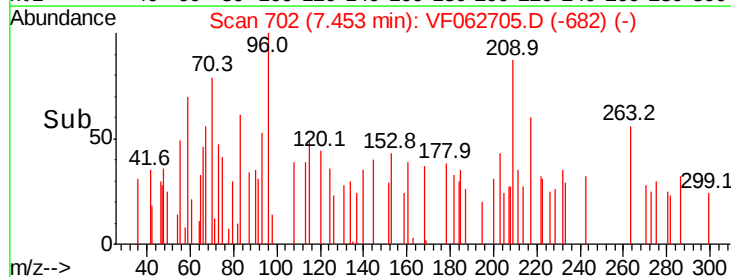
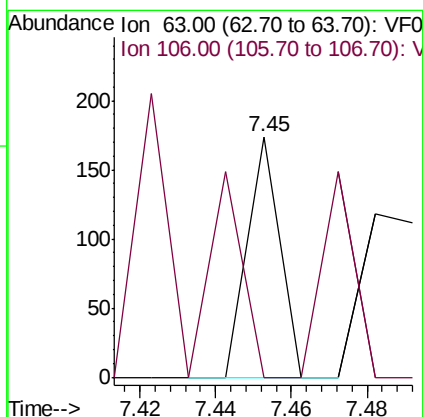
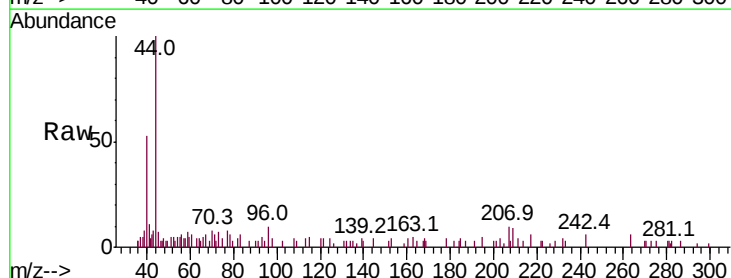
Instrument :
MSVOA_F
ClientSampled :
RO-SOIL

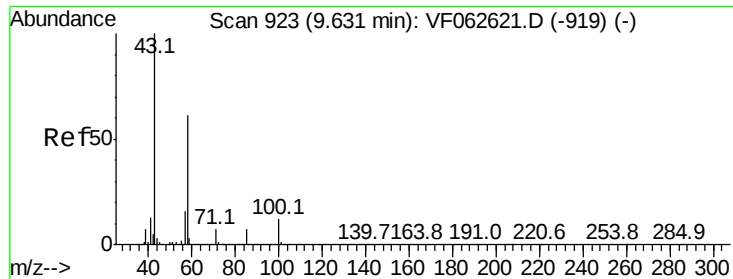
Tot Ion: 75 Resp: 364
Ion Ratio Lower Upper
75 100
77 45.1 24.2 36.4#



#58
2-Chloroethyl Vinyl ether
Concen: 1.253 ug/l
RT: 7.45 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

Tgt Ion: 63 Resp: 103
Ion Ratio Lower Upper
63 100
106 0.0 19.1 28.7#

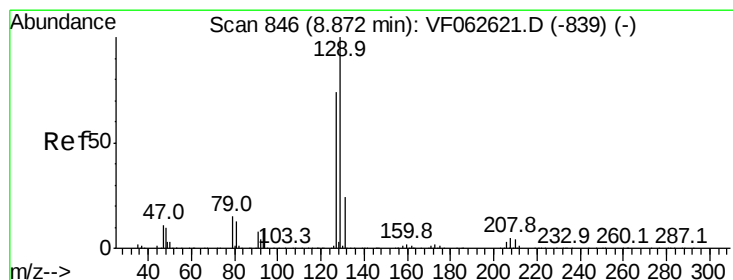
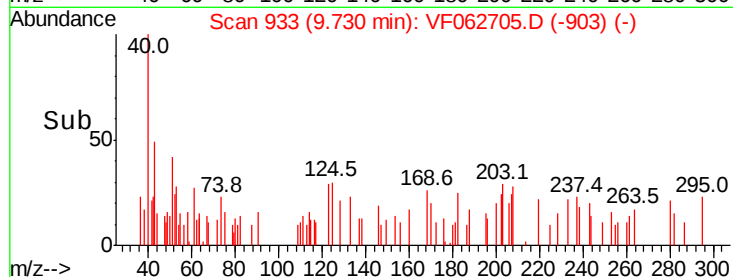
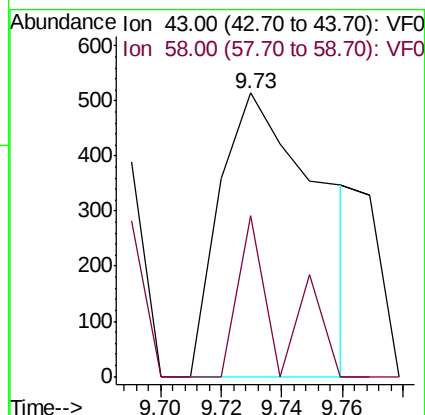
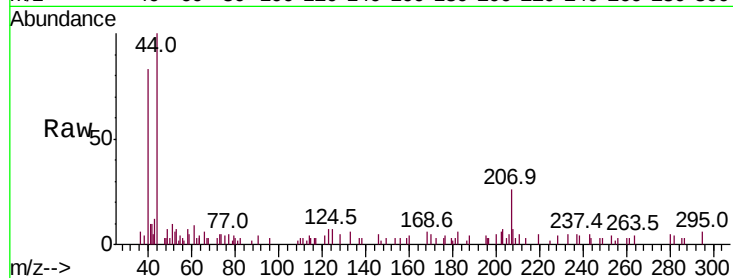




#59
2-Hexanone
Concen: Below Cal
RT: 9.73 min Scan# 933
Delta R.T. 0.10 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

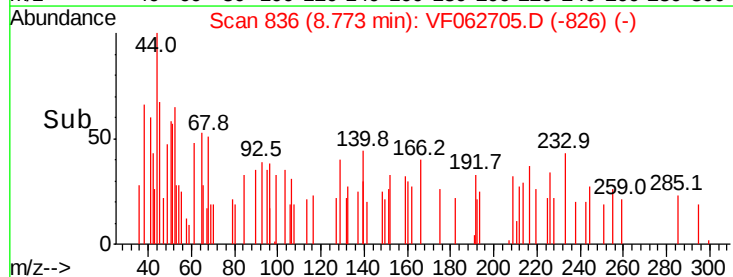
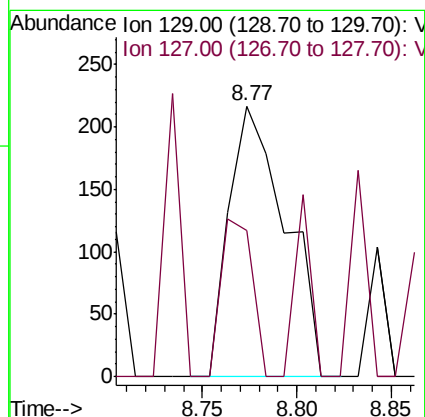
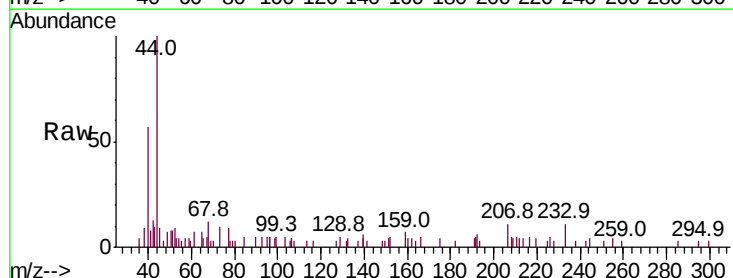
Instrument :
MSVOA_F
ClientSampled :
RO-SOIL

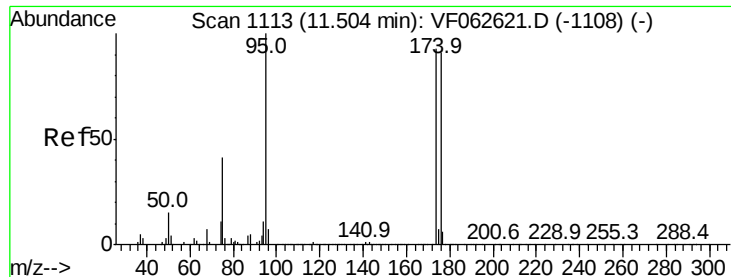
Tot Ion: 43 Resp: 1181
Ion Ratio Lower Upper
43 100
58 56.8 28.1 84.4



#60
Dibromochloromethane
Concen: 1.625 ug/l
RT: 8.77 min Scan# 836
Delta R.T. -0.10 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

Tgt Ion: 129 Resp: 449
Ion Ratio Lower Upper
129 100
127 53.9 37.2 111.6





#62

4-Bromofluorobenzene

Concen: 7.151 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

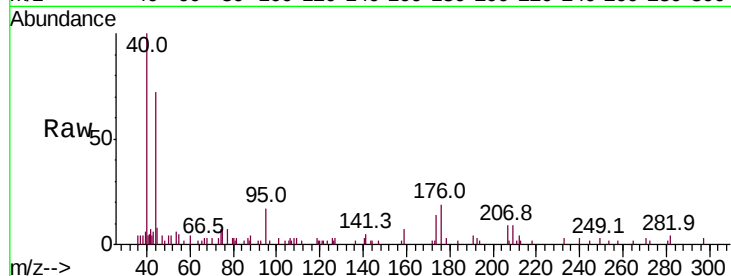
Tot Ion: 95 Resp: 2424

Ion Ratio Lower Upper

95 100

174 82.6 0.0 185.6

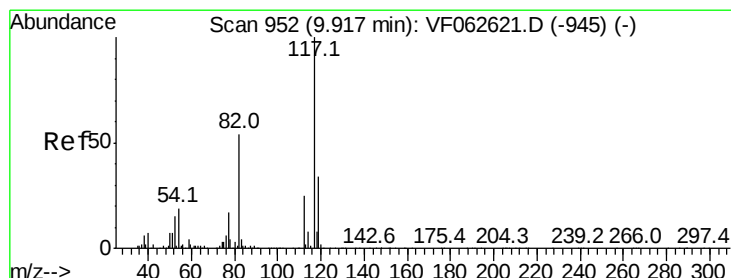
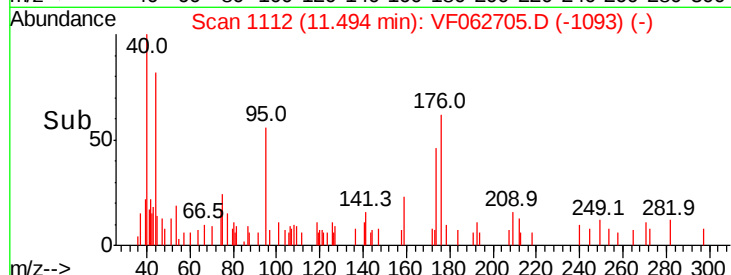
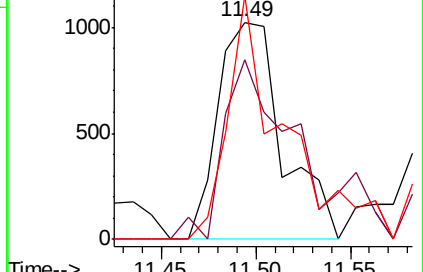
176 112.1 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

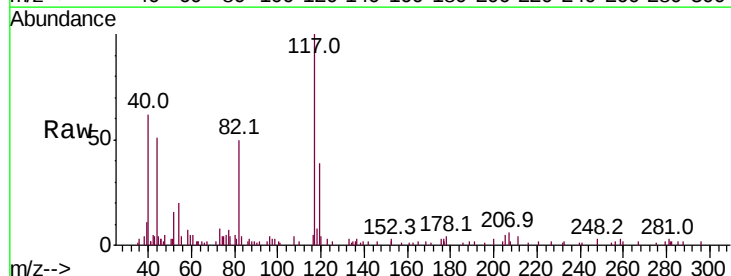
Tgt Ion: 117 Resp: 20923

Ion Ratio Lower Upper

117 100

82 49.7 43.3 64.9

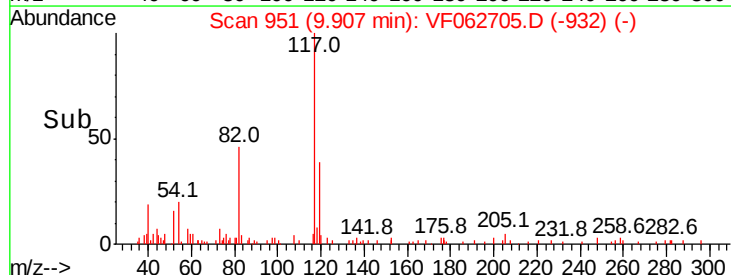
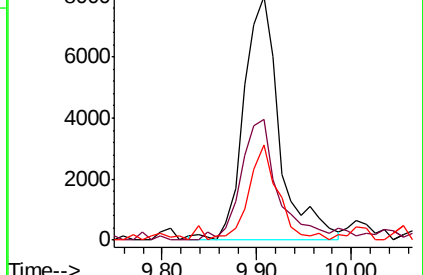
119 39.3 27.4 41.0

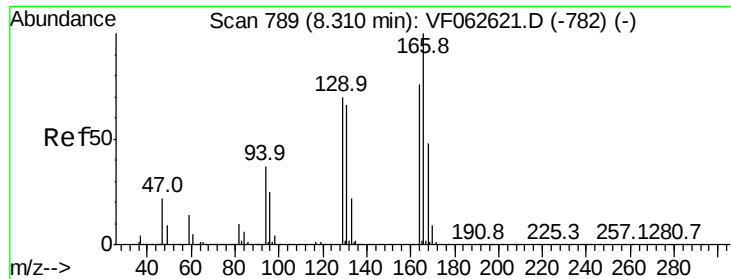


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#64

Tetrachloroethene

Concen: 3.457 ug/l

RT: 8.32 min Scan# 790

Delta R.T. 0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :
MSVOA_F
ClientSampleId :
RO-SOIL

Tot Ion:164 Resp: 573

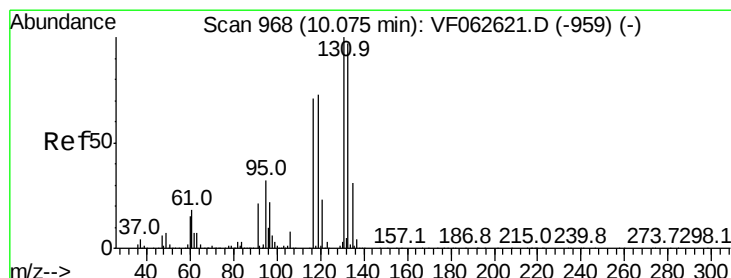
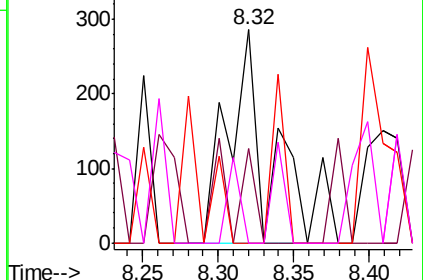
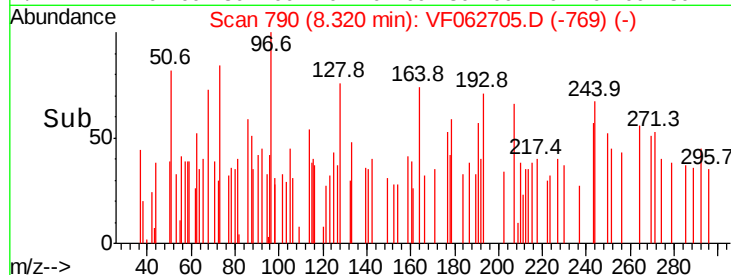
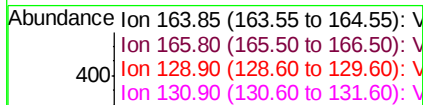
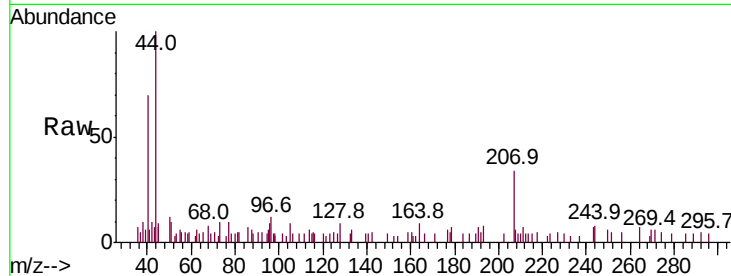
Ion Ratio Lower Upper

164 100

166 44.1 105.5 158.3#

129 0.0 73.8 110.6#

131 0.0 69.5 104.3#



#66

1,1,1,2-Tetrachloroethane

Concen: 1.152 ug/l

RT: 10.08 min Scan# 969

Delta R.T. 0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

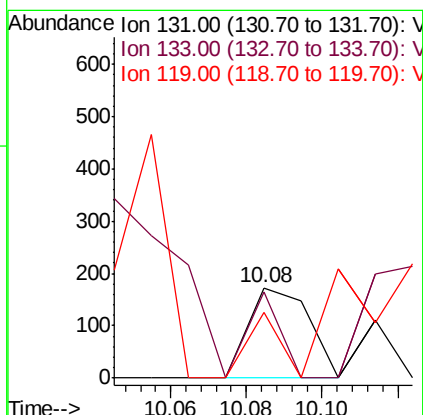
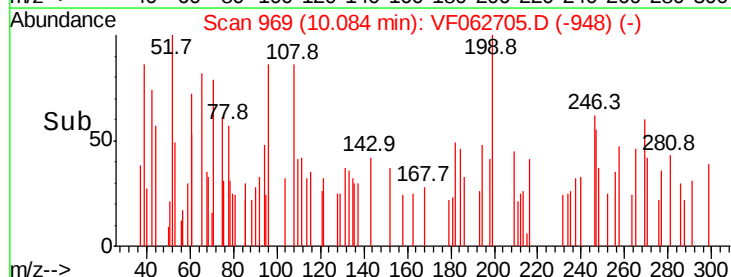
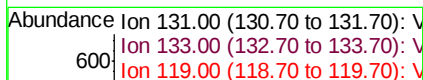
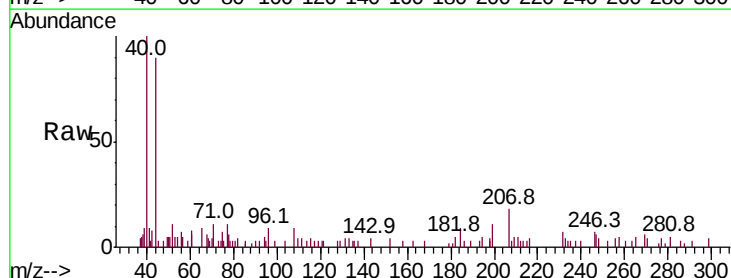
Tgt Ion:131 Resp: 190

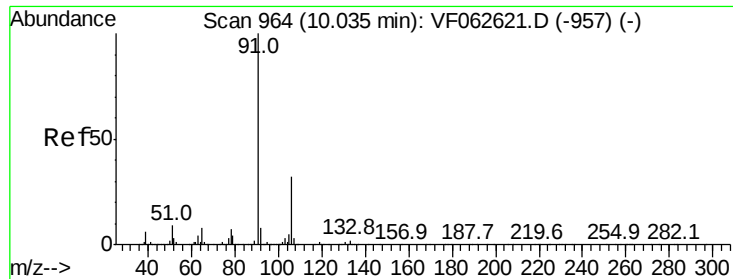
Ion Ratio Lower Upper

131 100

133 95.4 48.5 145.5

119 72.3 36.8 110.4





#67

Ethyl Benzene

Concen: 1.406 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

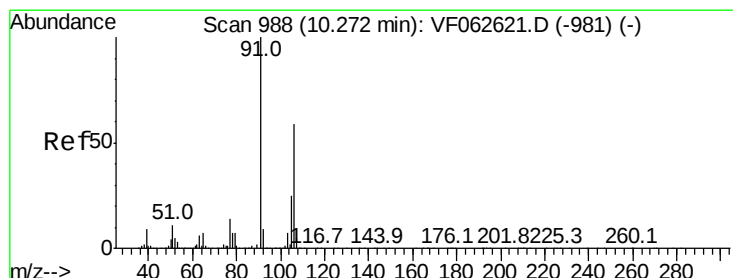
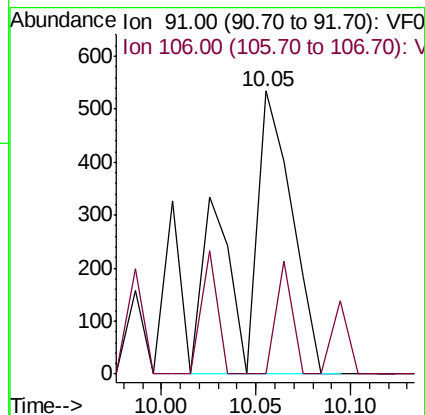
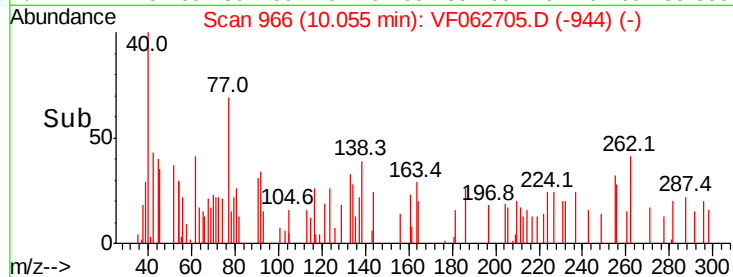
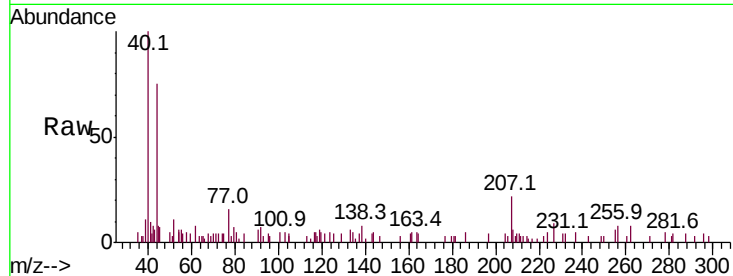
RO-SOIL

Tot Ion: 91 Resp: 1004

Ion Ratio Lower Upper

91 100

106 0.0 25.8 38.8#



#68

m/p-Xylenes

Concen: 1.155 ug/l

RT: 10.28 min Scan# 989

Delta R.T. 0.01 min

Lab File: VF062705.D

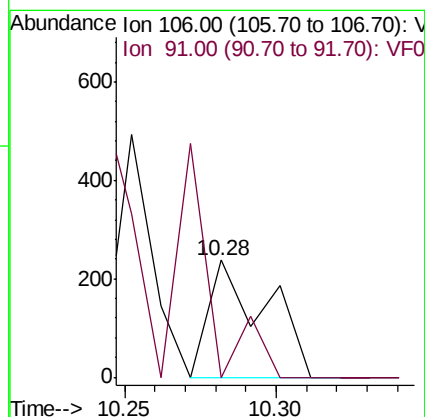
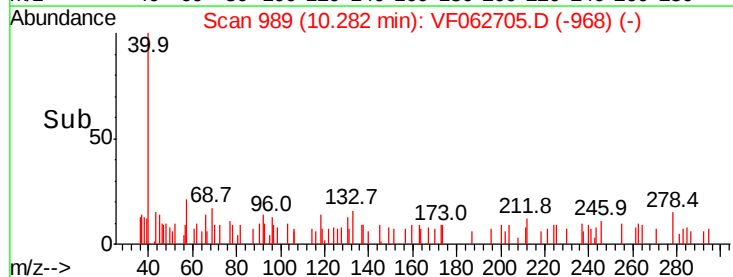
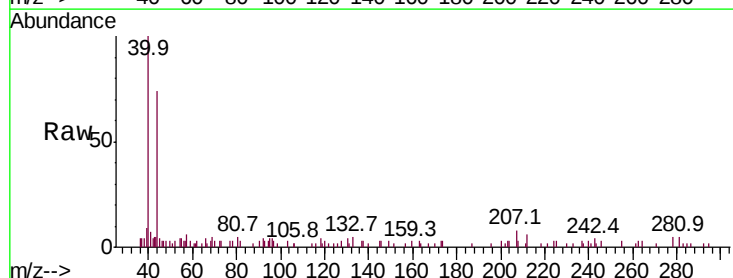
Acq: 22 May 2019 14:57

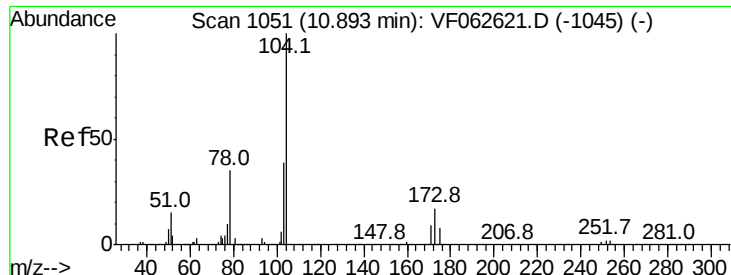
Tgt Ion: 106 Resp: 310

Ion Ratio Lower Upper

106 100

91 0.0 136.9 205.3#

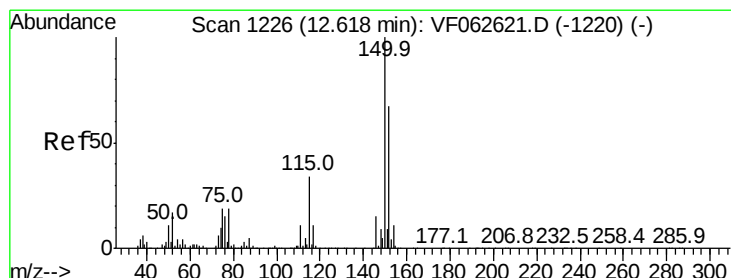
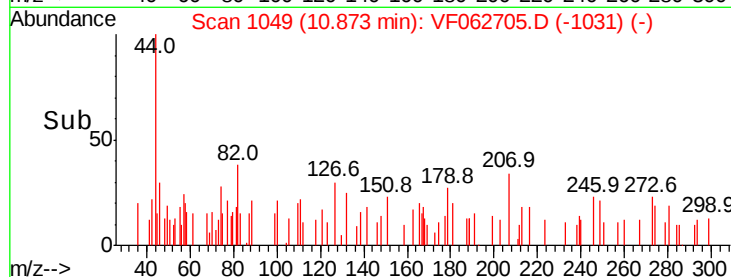
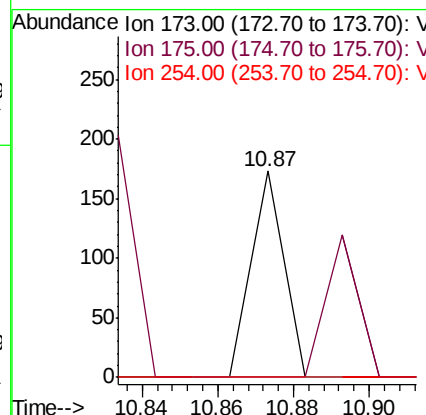
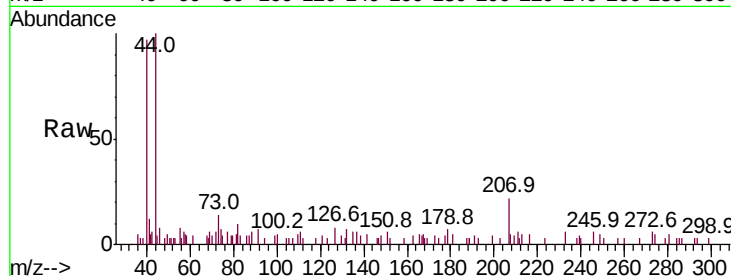




#71
Bromoform
Concen: 1.234 ug/l
RT: 10.87 min Scan# 1049
Delta R.T. -0.02 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

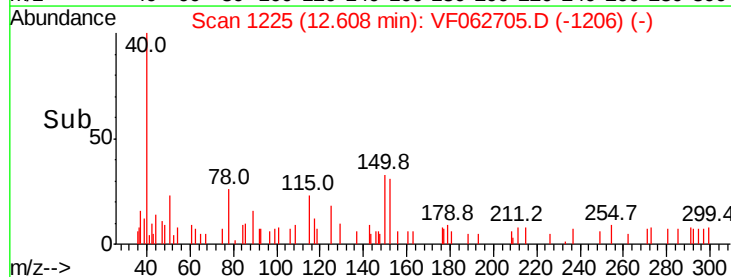
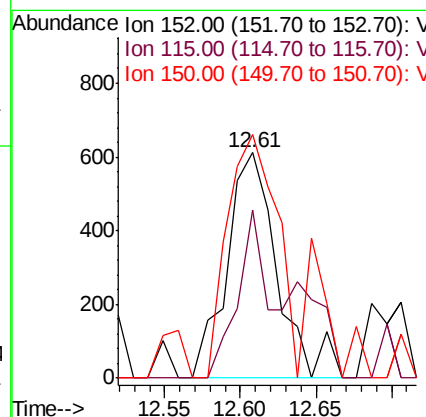
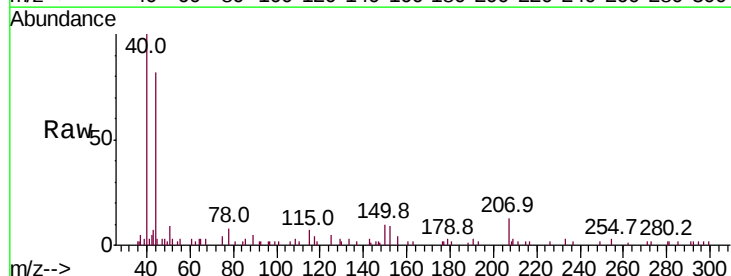
Instrument :
MSVOA_F
ClientSampled :
RO-SOIL

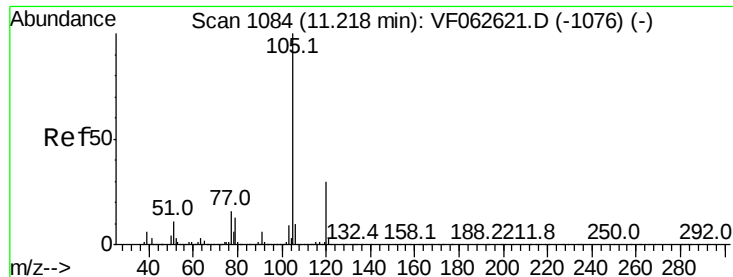
Tot Ion:173 Resp: 102
Ion Ratio Lower Upper
173 100
175 0.0 25.3 75.9#
254 0.0 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062705.D
Acq: 22 May 2019 14:57

Tgt Ion:152 Resp: 1415
Ion Ratio Lower Upper
152 100
115 74.6 25.2 75.6
150 108.2 0.0 306.2





#73

Isopropylbenzene

Concen: 5.305 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

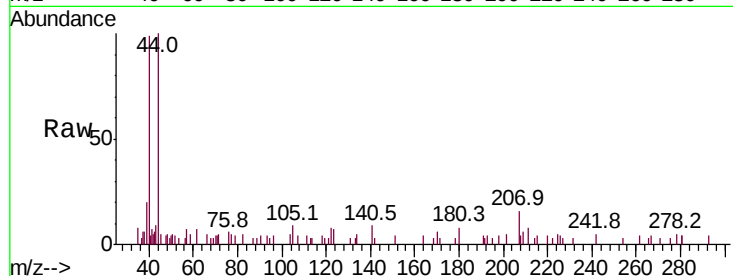
RO-SOIL

Tot Ion:105 Resp: 538

Ion Ratio Lower Upper

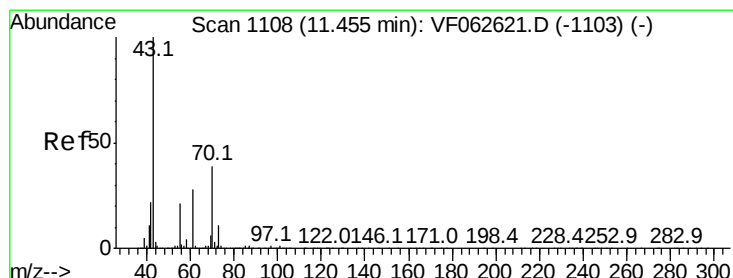
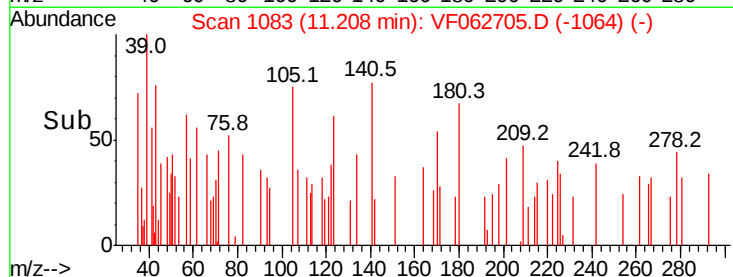
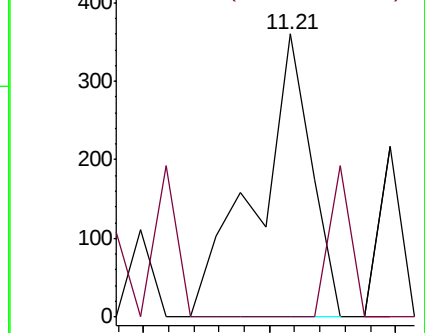
105 100

120 0.0 14.8 44.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 55.769 ug/l

RT: 11.43 min Scan# 1105

Delta R.T. -0.03 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Tgt Ion: 43 Resp: 1423

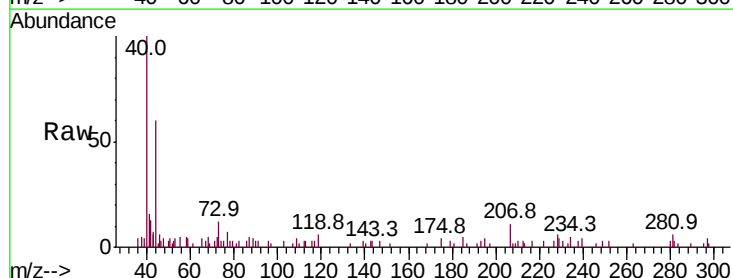
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 36.9 17.0 25.4#

61 14.8 22.6 34.0#

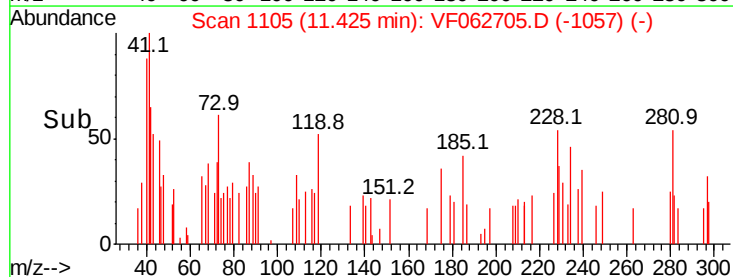
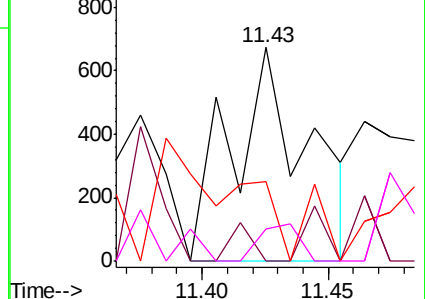


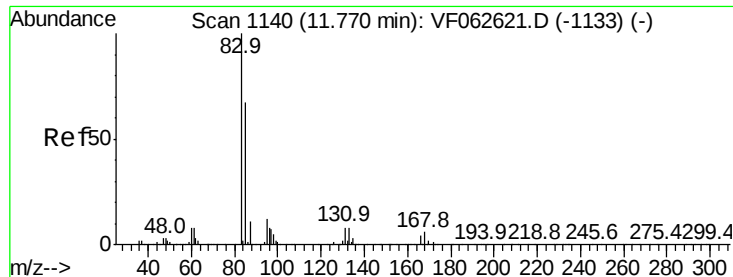
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 4.728 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

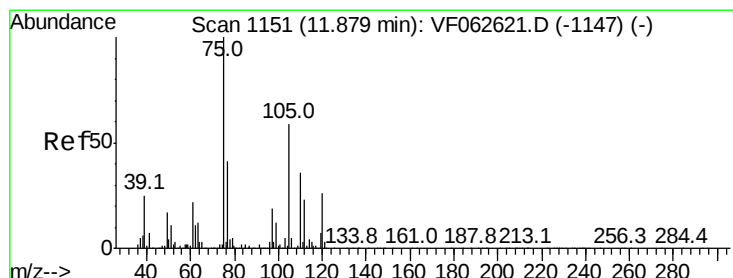
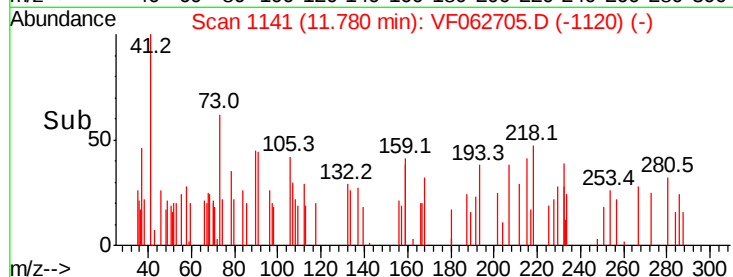
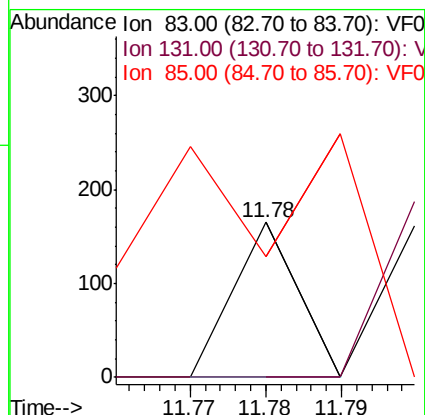
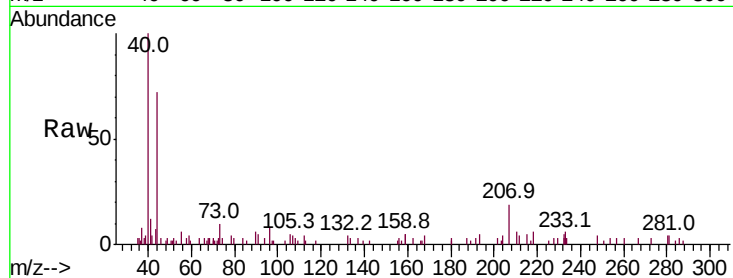
Tot Ion: 83 Resp: 98

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

85 78.2 33.5 100.5



#76

1,2,3-Trichloropropane

Concen: 18.064 ug/l

RT: 11.73 min Scan# 1136

Delta R.T. -0.15 min

Lab File: VF062705.D

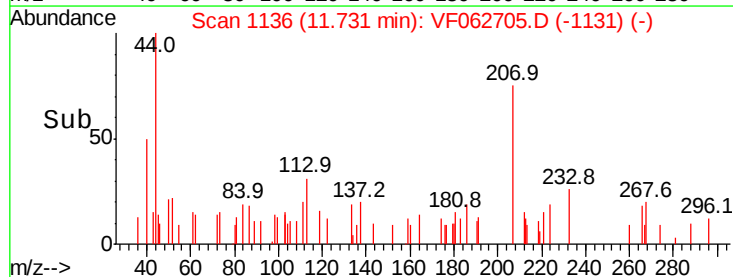
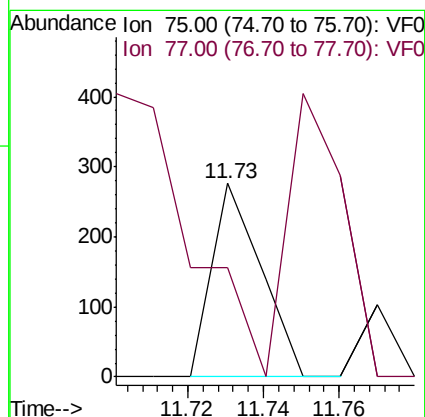
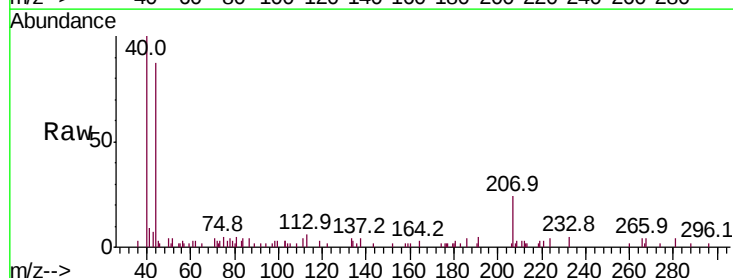
Acq: 22 May 2019 14:57

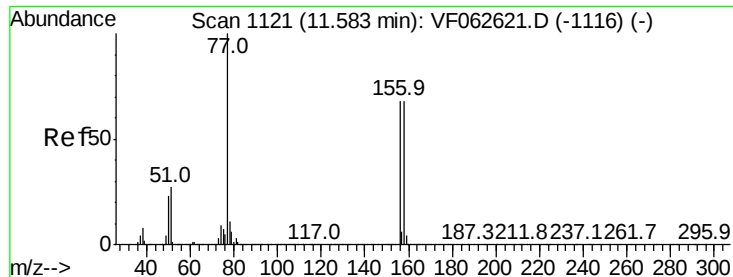
Tgt Ion: 75 Resp: 246

Ion Ratio Lower Upper

75 100

77 56.5 20.6 61.8





#77

Bromobenzene

Concen: 3.372 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.01 min

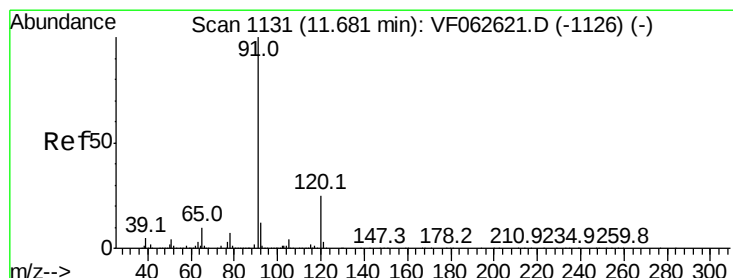
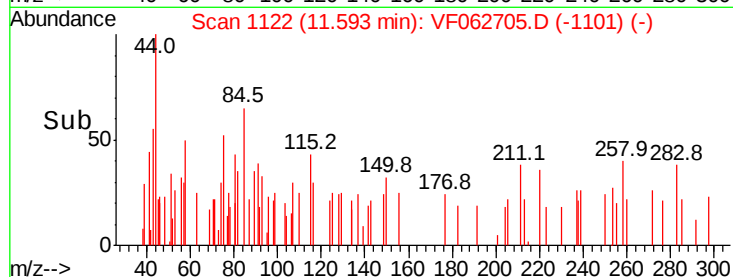
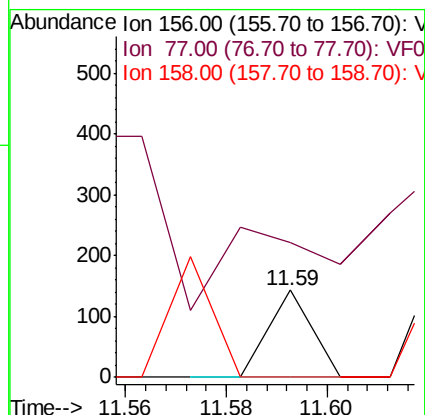
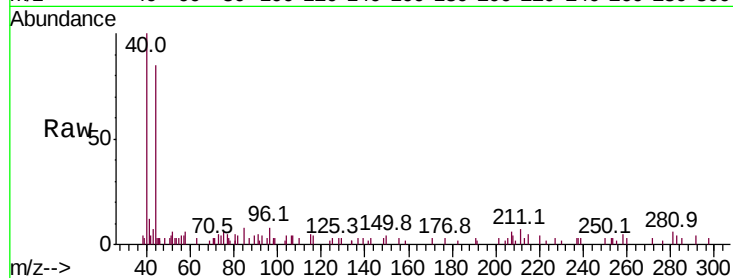
Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :
MSVOA_F
ClientSampled :
RO-SOIL

Tot Ion:156 Resp: 85

Ion	Ratio	Lower	Upper
156	100		
77	154.5	73.6	220.8
158	82.5	49.6	148.8



#78

n-propylbenzene

Concen: 3.966 ug/l

RT: 11.66 min Scan# 1129

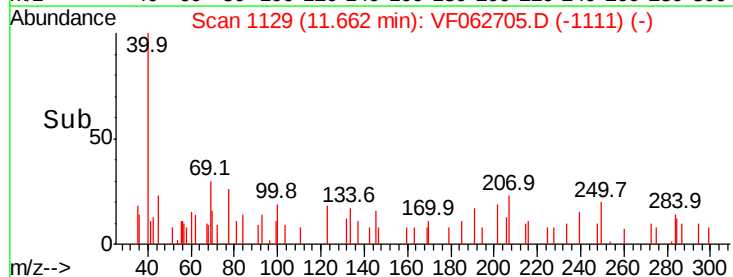
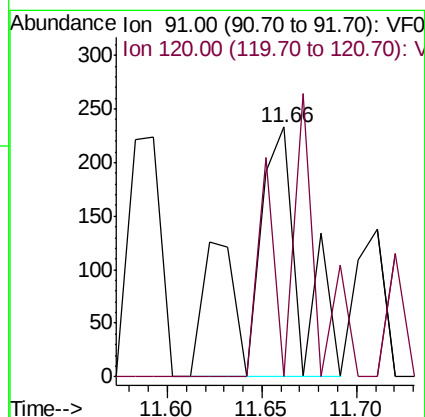
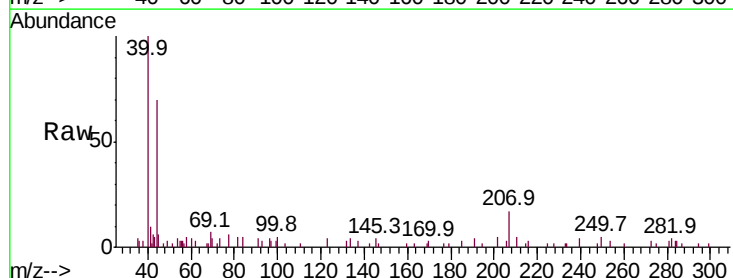
Delta R.T. -0.02 min

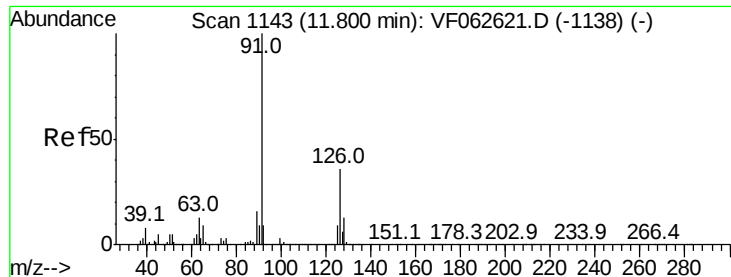
Lab File: VF062705.D

Acq: 22 May 2019 14:57

Tgt Ion: 91 Resp: 476

Ion	Ratio	Lower	Upper
91	100		
120	0.0	12.7	38.1





#79

2-Chlorotoluene

Concen: 13.276 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. 0.03 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

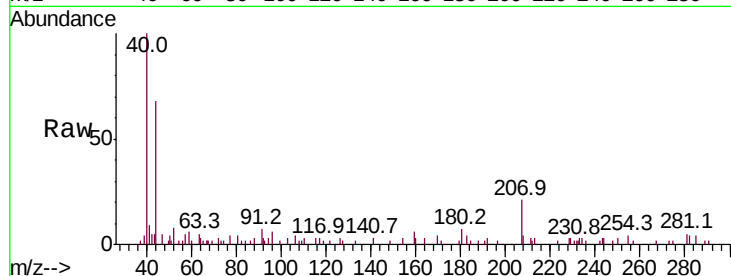
RO-SOIL

Tot Ion: 91 Resp: 898

Ion Ratio Lower Upper

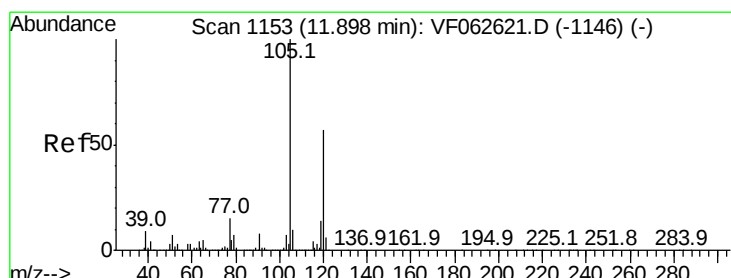
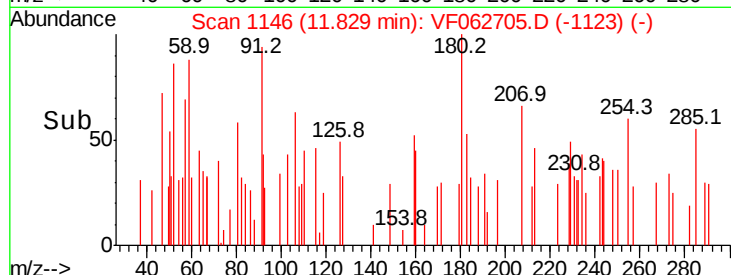
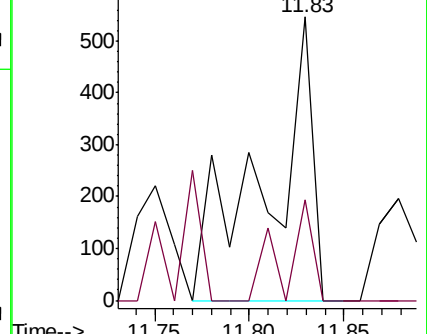
91 100

126 35.5 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.558 ug/l

RT: 12.01 min Scan# 1164

Delta R.T. 0.11 min

Lab File: VF062705.D

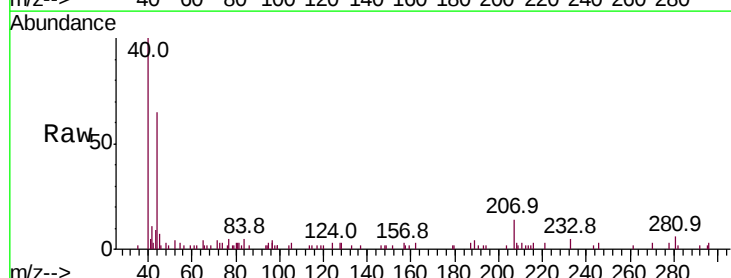
Acq: 22 May 2019 14:57

Tgt Ion: 105 Resp: 208

Ion Ratio Lower Upper

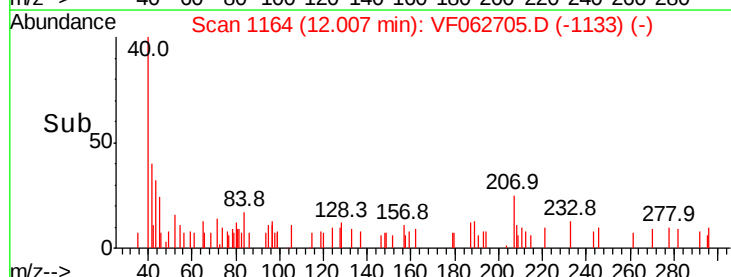
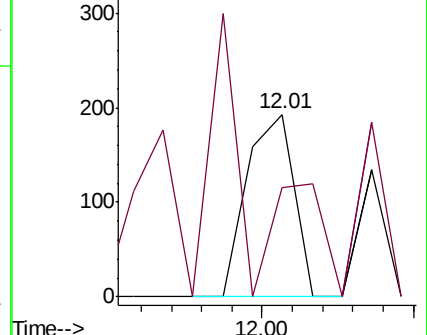
105 100

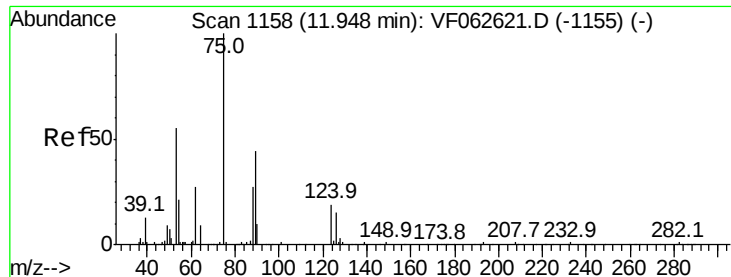
120 60.1 28.7 86.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 79.626 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

RO-SOIL

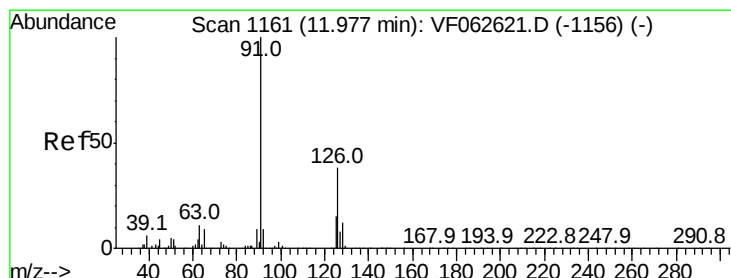
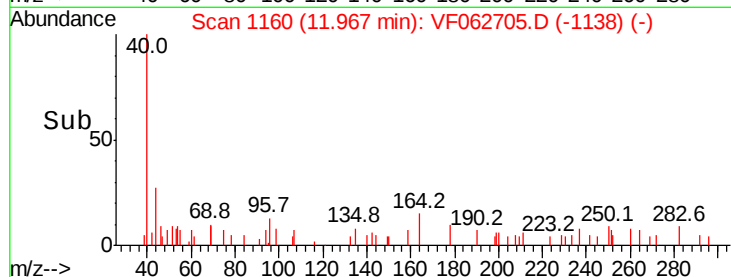
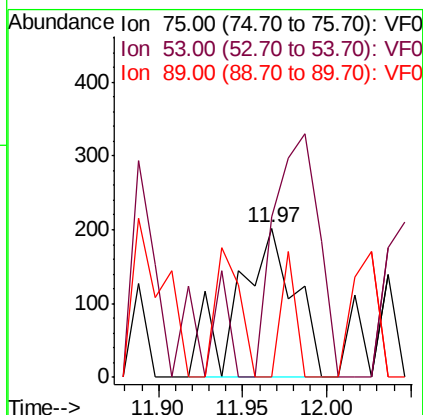
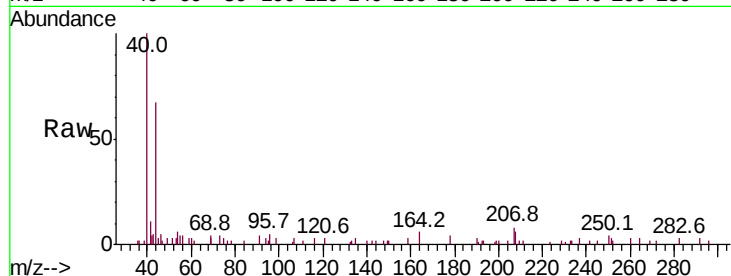
Tot Ion: 75 Resp: 482

Ion Ratio Lower Upper

75 100

53 299.5 46.9 70.3#

89 0.0 36.4 54.6#



#82

4-Chlorotoluene

Concen: 6.072 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. -0.15 min

Lab File: VF062705.D

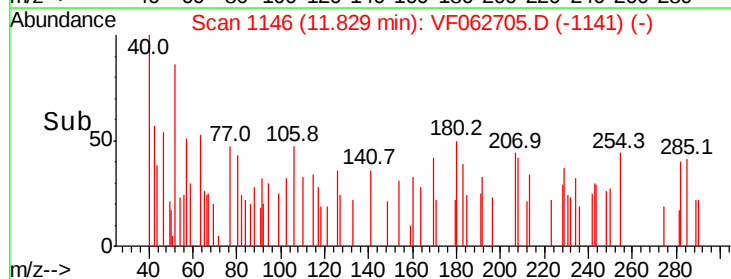
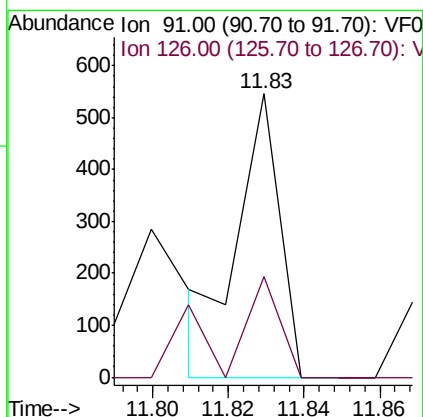
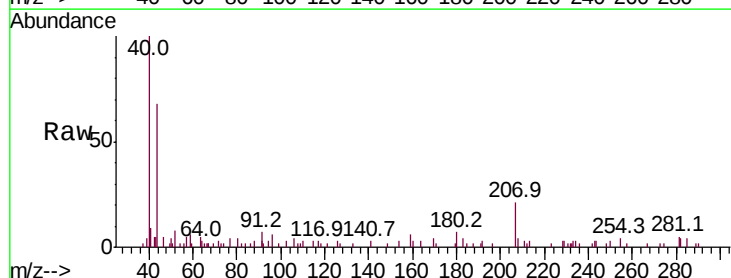
Acq: 22 May 2019 14:57

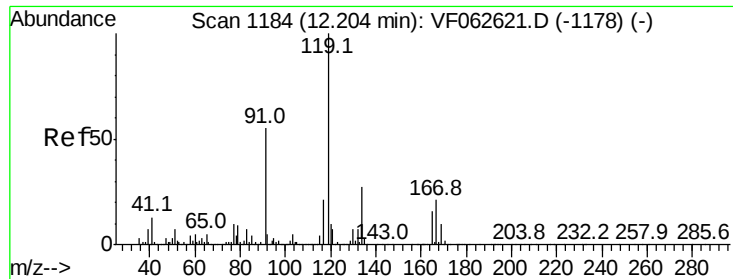
Tgt Ion: 91 Resp: 405

Ion Ratio Lower Upper

91 100

126 35.5 19.1 57.1





#83

tert-Butylbenzene

Concen: 9.939 ug/l

RT: 12.17 min Scan# 1181

Delta R.T. -0.03 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

RO-SOIL

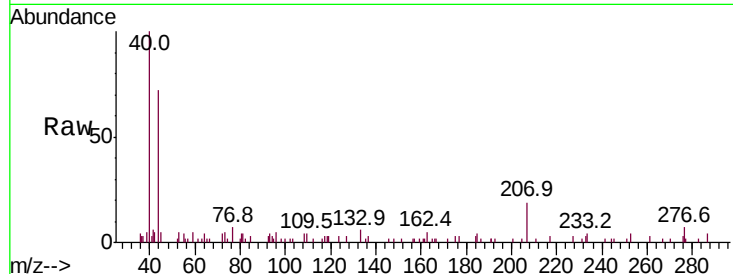
Tot Ion:119 Resp: 820

Ion Ratio Lower Upper

119 100

91 0.0 27.3 81.9#

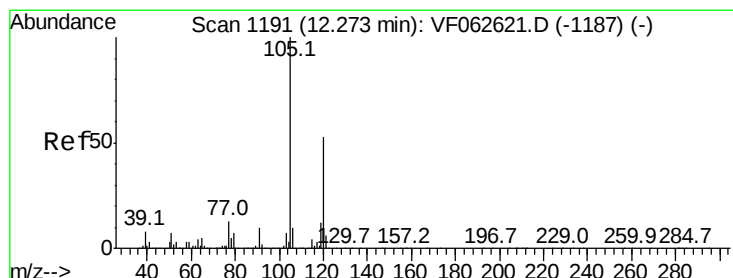
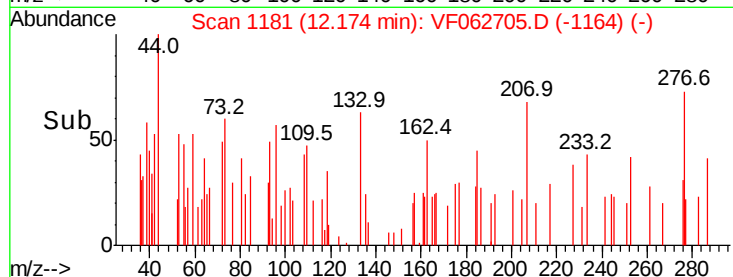
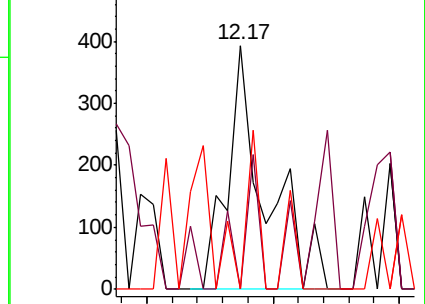
134 0.0 13.6 40.7#



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: 3.723 ug/l

RT: 12.24 min Scan# 1188

Delta R.T. -0.03 min

Lab File: VF062705.D

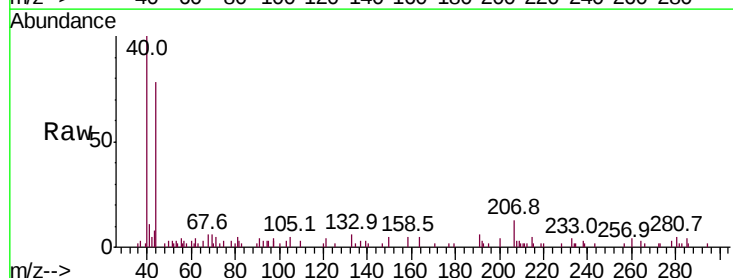
Acq: 22 May 2019 14:57

Tgt Ion:105 Resp: 293

Ion Ratio Lower Upper

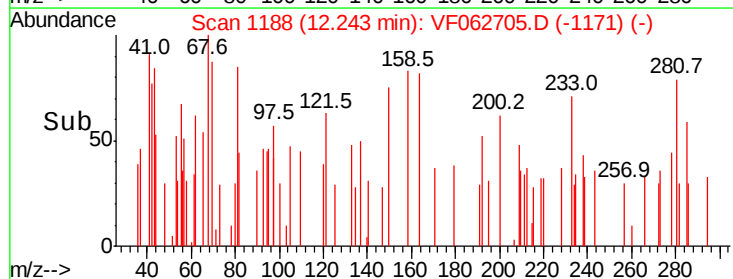
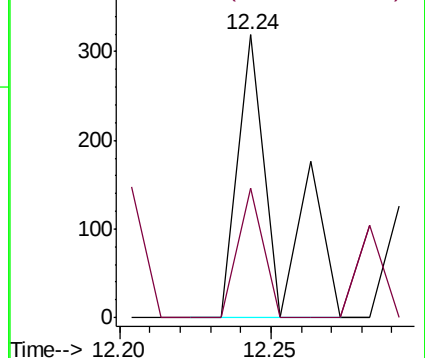
105 100

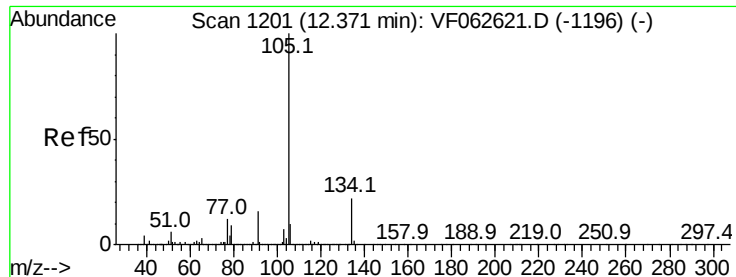
120 45.8 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

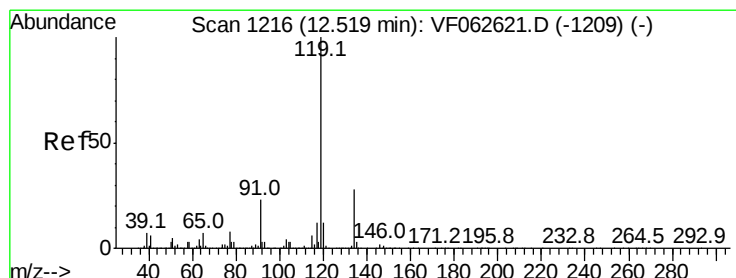
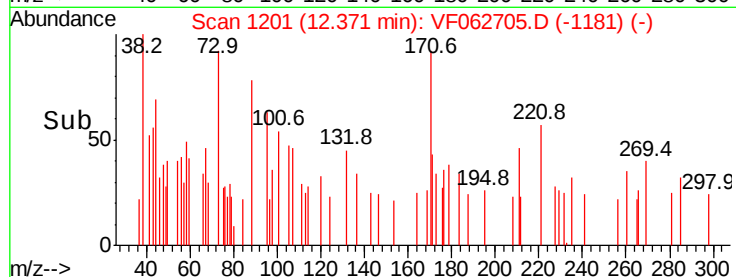
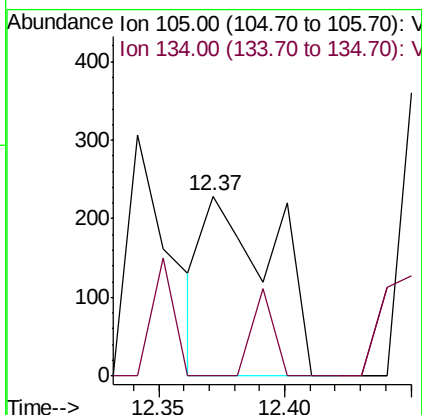
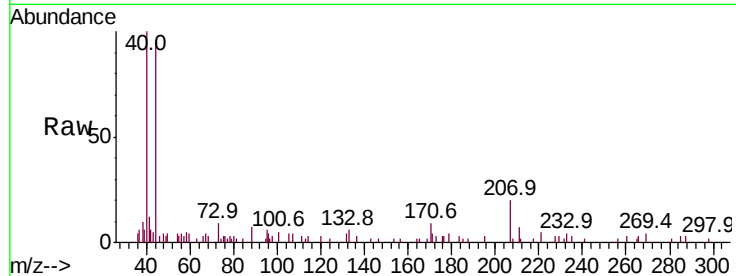




#85
 sec-Butylbenzene
 Concen: 3.983 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

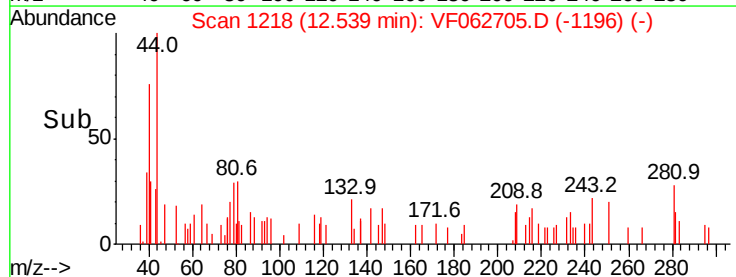
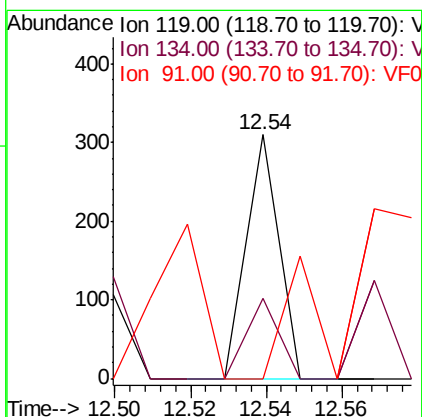
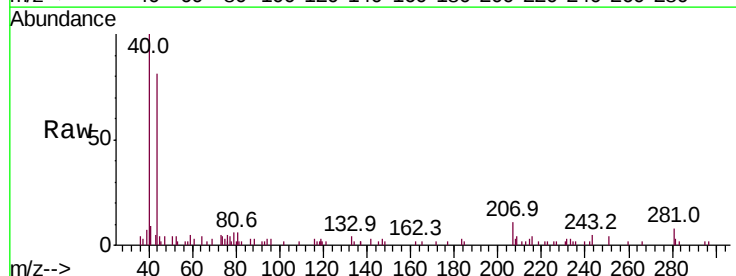
Instrument :
 MSVOA_F
 ClientSampleId :
 RO-SOIL

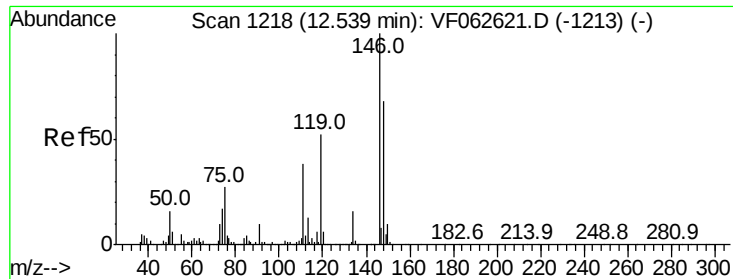
Tot Ion:105 Resp: 441
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.8 32.4#



#86
 p-Isopropyltoluene
 Concen: 1.961 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.02 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

Tgt Ion:119 Resp: 183
 Ion Ratio Lower Upper
 119 100
 134 32.6 14.1 42.3
 91 0.0 11.4 34.2#

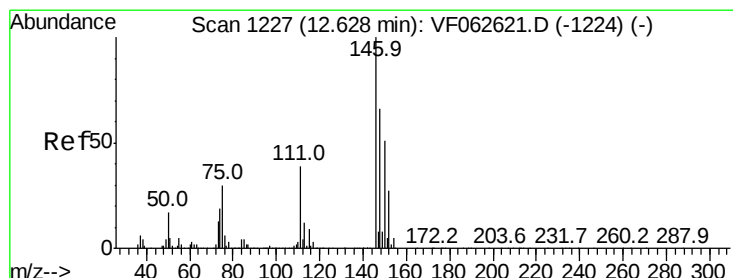
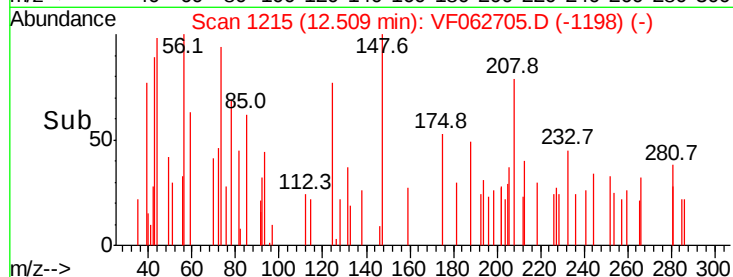
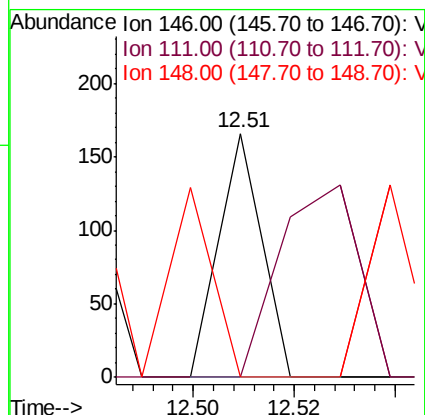
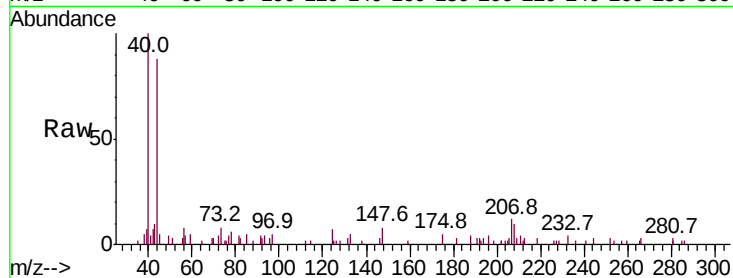




#87
 1,3-Dichlorobenzene
 Concen: 2.149 ug/l
 RT: 12.51 min Scan# 1215
 Delta R.T. -0.03 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

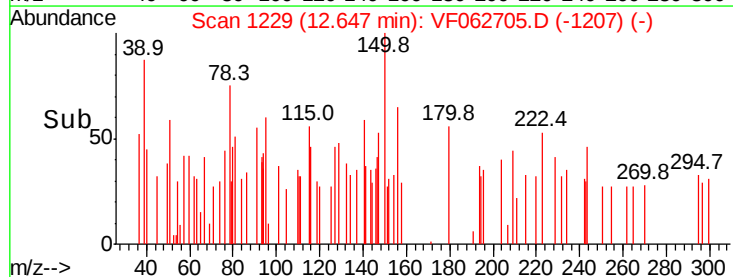
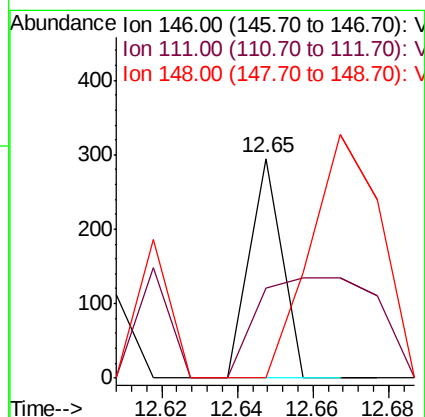
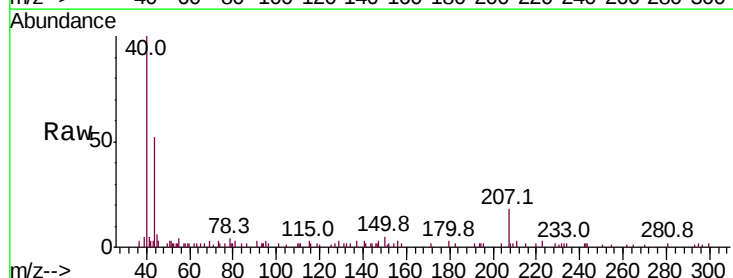
Instrument :
 MSVOA_F
 ClientSampled :
 RO-SOIL

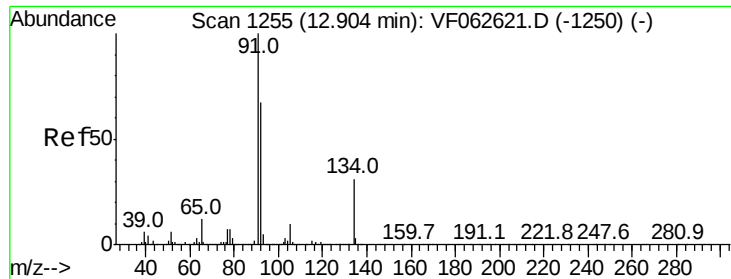
Tot Ion:146 Resp: 98
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.9#
 148 0.0 34.0 101.8#



#88
 1,4-Dichlorobenzene
 Concen: 4.065 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.02 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

Tgt Ion:146 Resp: 174
 Ion Ratio Lower Upper
 146 100
 111 41.0 19.4 58.2
 148 0.0 33.2 99.6#





#89

n-Butylbenzene

Concen: 3.652 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. 0.02 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

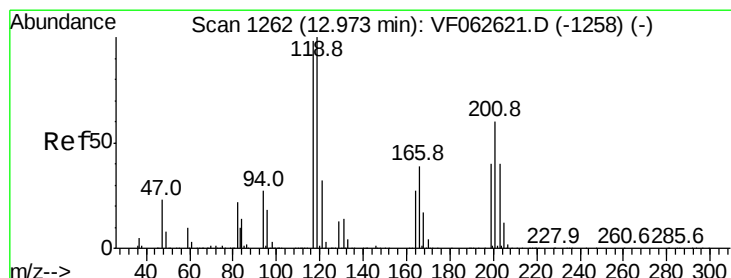
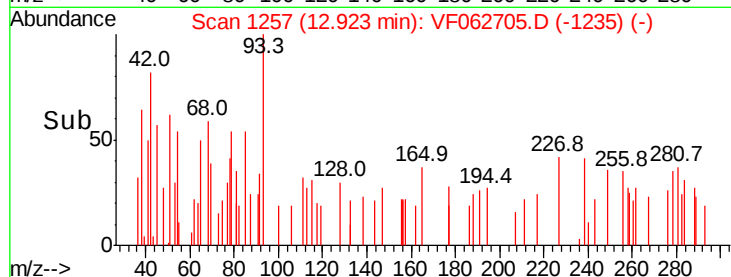
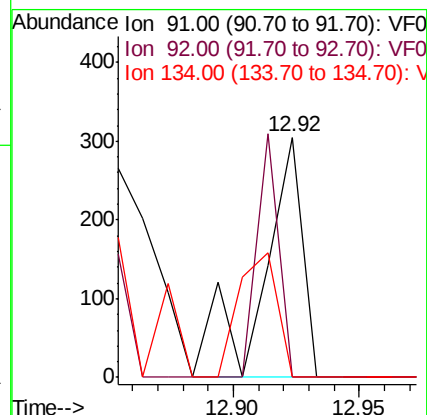
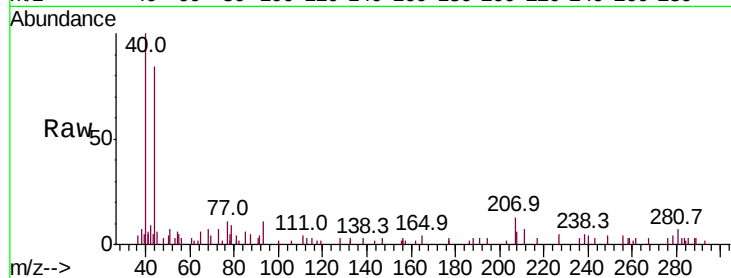
Tot Ion: 91 Resp: 336

Ion Ratio Lower Upper

91 100

92 0.0 33.3 99.8#

134 0.0 15.4 46.4#



#90

Hexachloroethane

Concen: 6.835 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VF062705.D

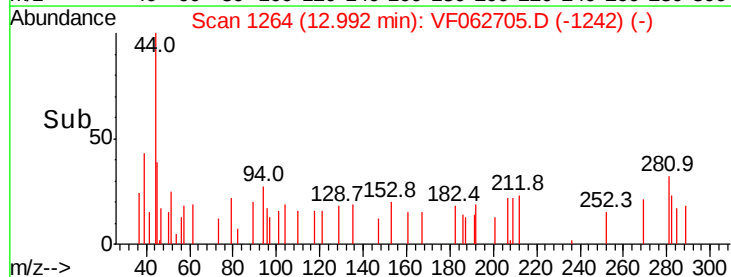
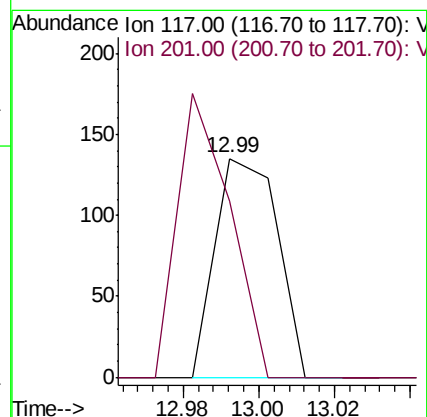
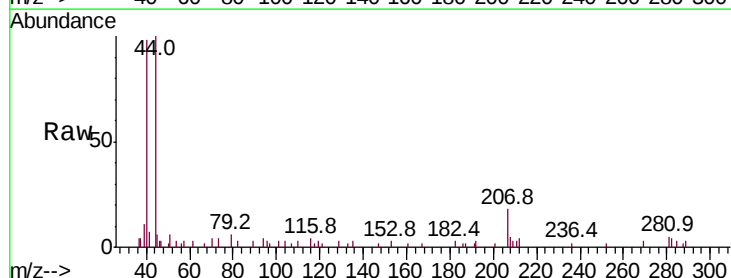
Acq: 22 May 2019 14:57

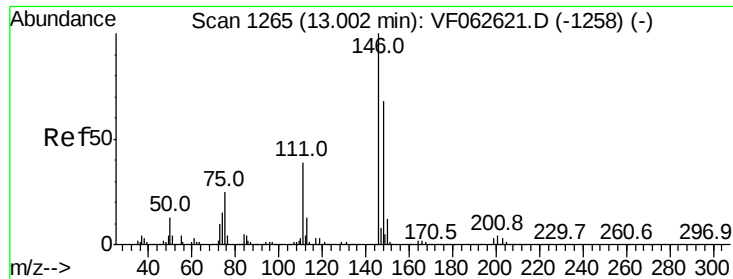
Tgt Ion: 117 Resp: 153

Ion Ratio Lower Upper

117 100

201 80.7 30.7 92.1





#91

1,2-Dichlorobenzene

Concen: 1.599 ug/l

RT: 12.95 min Scan# 1260

Delta R.T. -0.05 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

RO-SOIL

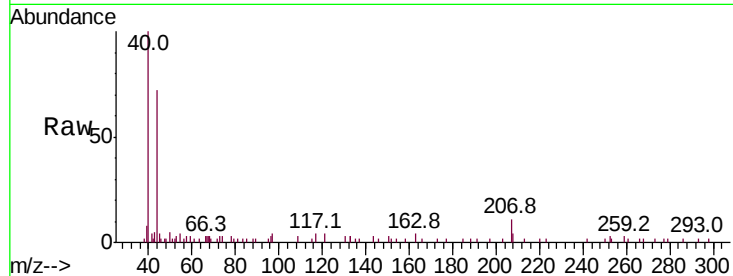
Tot Ion:146 Resp: 65

Ion Ratio Lower Upper

146 100

111 0.0 19.8 59.3#

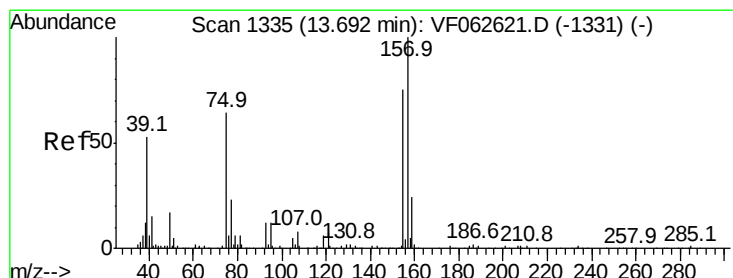
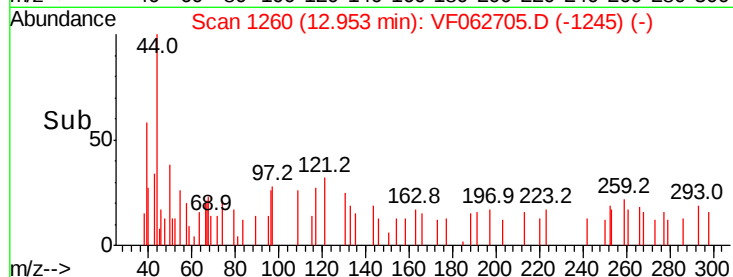
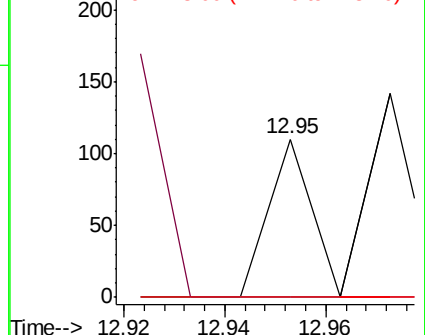
148 0.0 34.1 102.2#



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: 63.903 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. 0.01 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

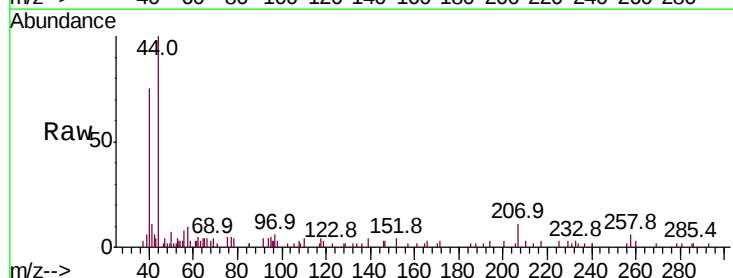
Tgt Ion: 75 Resp: 158

Ion Ratio Lower Upper

75 100

155 0.0 58.1 174.3#

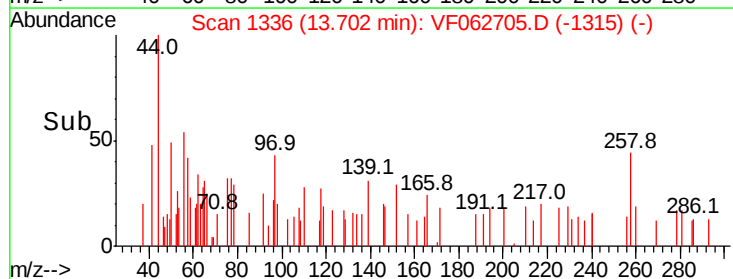
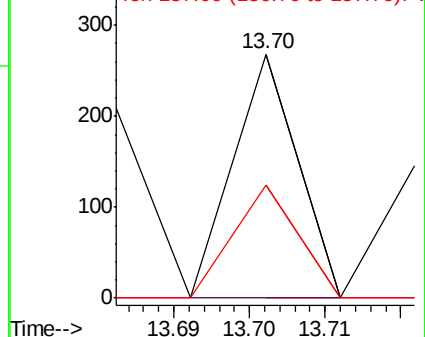
157 46.6 77.8 233.4#

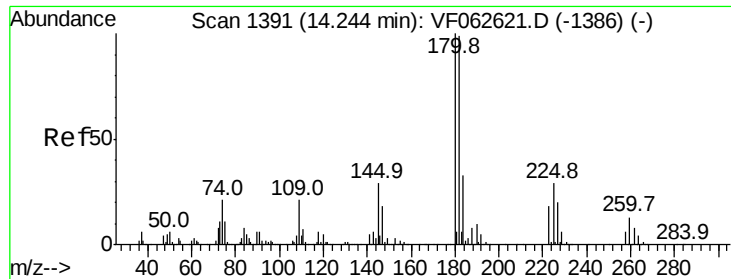


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

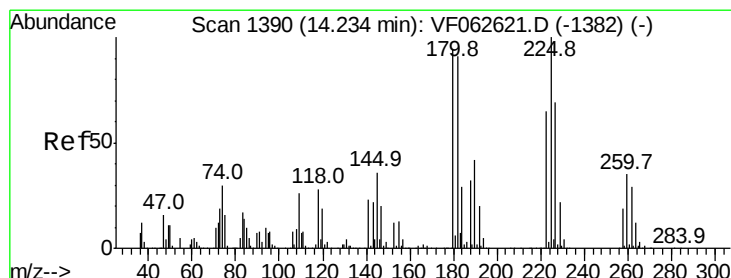
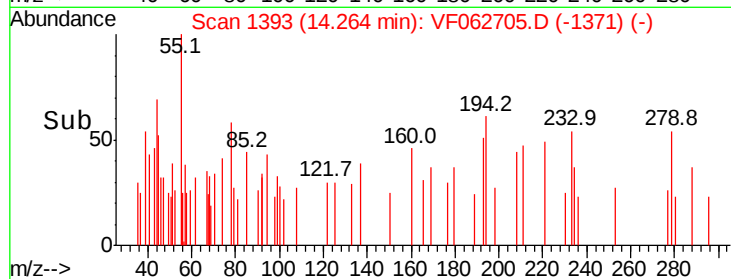
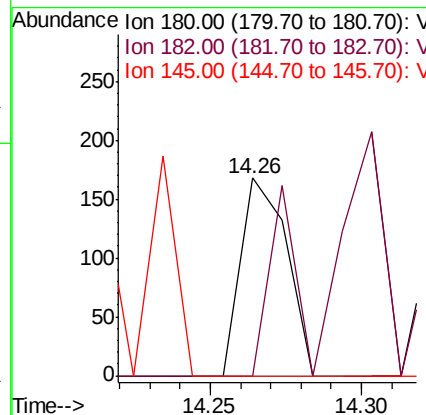
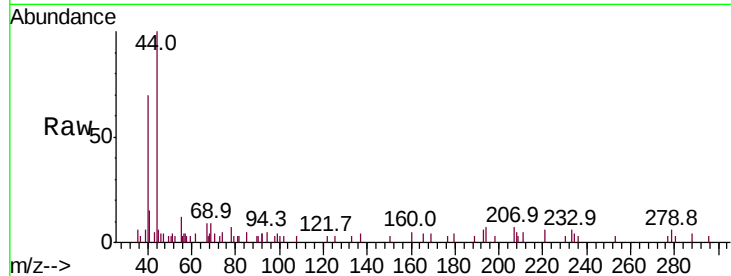




#93
 1,2,4-Trichlorobenzene
 Concen: 6.082 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.02 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

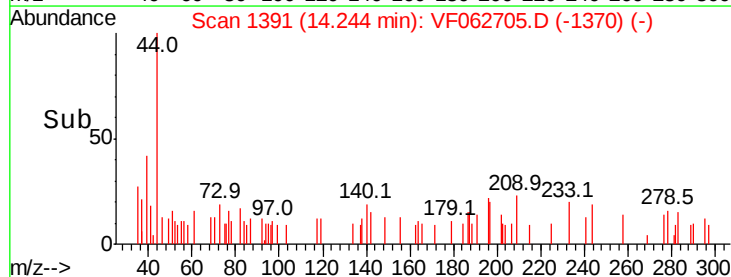
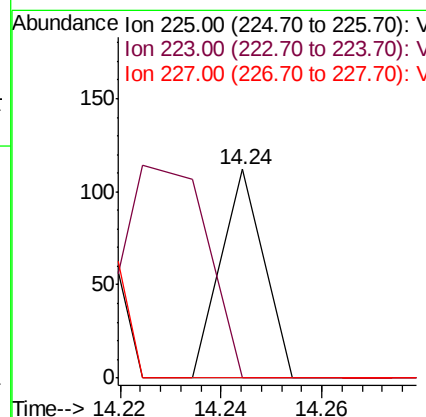
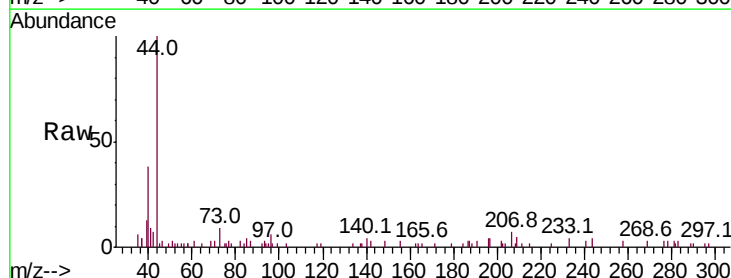
Instrument :
 MSVOA_F
 ClientSampleID :
 RO-SOIL

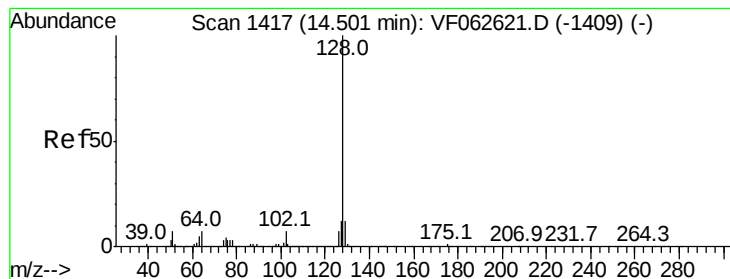
Tot Ion:180 Resp: 177
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.7 149.1#
 145 0.0 14.6 44.0#



#94
 Hexachlorobutadiene
 Concen: 3.250 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062705.D
 Acq: 22 May 2019 14:57

Tgt Ion:225 Resp: 66
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.5 97.4#
 227 0.0 34.5 103.5#





#95

Naphthalene

Concen: 1.192 ug/l

RT: 14.47 min Scan# 1414

Delta R.T. -0.03 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Instrument :

MSVOA_F

ClientSampled :

RO-SOIL

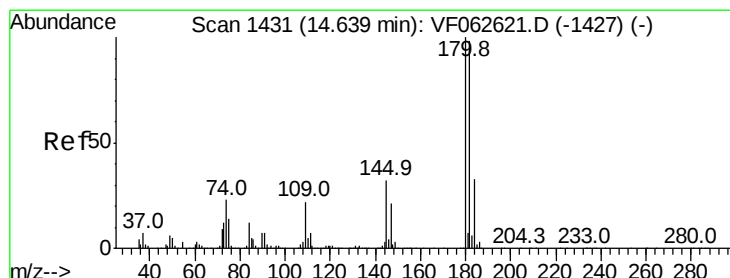
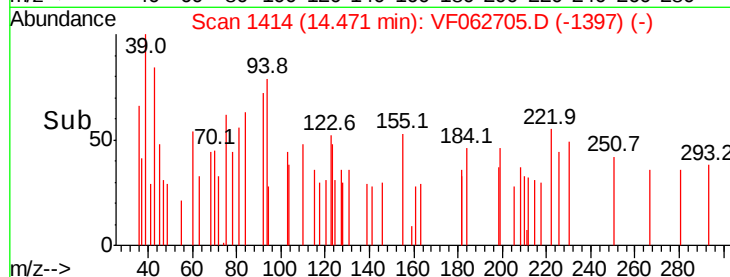
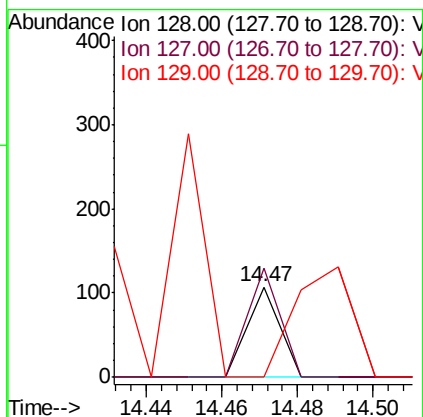
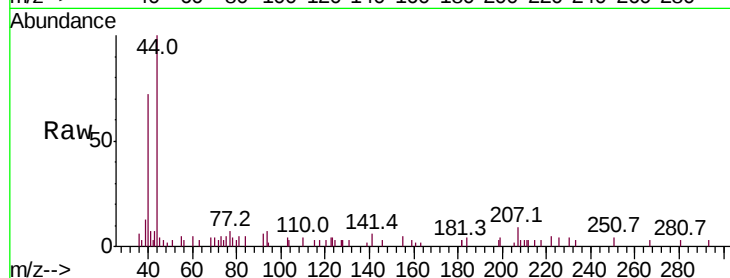
Tot Ion:128 Resp: 63

Ion Ratio Lower Upper

128 100

127 121.5 9.7 14.5#

129 0.0 9.3 13.9#



#96

1,2,3-Trichlorobenzene

Concen: 2.177 ug/l

RT: 14.59 min Scan# 1426

Delta R.T. -0.05 min

Lab File: VF062705.D

Acq: 22 May 2019 14:57

Tgt Ion:180 Resp: 60

Ion Ratio Lower Upper

180 100

182 123.8 48.9 146.7

145 0.0 16.1 48.2#

