

Data File : VF060715.D
Acq On : 13 Nov 2018 16:44
Operator : VA/AP
Sample : J5807-23DL 4X
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILDL

Quant Time: Nov 14 03:21:29 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	222091	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	390469	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	355022	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	202508	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	117433	46.36	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	92.72%	
35) Dibromofluoromethane	4.12	113	149813	51.04	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.08%	
50) Toluene-d8	7.56	98	387948	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	
62) 4-Bromofluorobenzene	11.42	95	184333	53.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.68%	

Target Compounds						Qvalue
11) Tert butyl alcohol	2.59	59	321	2.784	ug/l #	1
12) 1,1-Dichloroethene	1.79	96	6228	3.437	ug/l	91
13) Acrolein	1.91	56	381	3.614	ug/l	96
15) Acrylonitrile	2.94	53	646	2.630	ug/l #	31
16) Acetone	2.23	43	100919	186.385	ug/l	98
18) Methyl Acetate	2.43	43	64835	72.923	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	191032	43.948	ug/l	97
20) Methylene Chloride	2.19	84	41753	21.576	ug/l	98
21) trans-1,2-Dichloroethene	2.31	96	101696	53.721	ug/l	92
22) Diisopropyl ether	2.80	45	281100	45.869	ug/l	99
24) 1,1-Dichloroethane	2.88	63	48509	13.075	ug/l	98
25) 2-Butanone	4.34	43	69341	77.858	ug/l	97
27) cis-1,2-Dichloroethene	3.48	96	75901	23.569	ug/l	95
28) Bromochloromethane	3.72	49	85780	44.488	ug/l	91
29) Tetrahydrofuran	4.09	42	1561	4.249	ug/l #	91
30) Chloroform	3.87	83	204042	34.277	ug/l	96
32) 1,1,1-Trichloroethane	4.10	97	219267	46.774	ug/l	100
38) Carbon Tetrachloride	4.10	117	22664	5.158	ug/l	97
40) Benzene	4.64	78	478933	47.444	ug/l	99
41) Methacrylonitrile	4.72	41	259	Below Cal	#	11
42) 1,2-Dichloroethane	4.95	62	152607	43.747	ug/l	97
44) Trichloroethene	5.51	130	68818	21.607	ug/l	90
45) 1,2-Dichloropropane	6.24	63	58711	22.351	ug/l	97
46) Dibromomethane	6.09	93	41336	23.839	ug/l	98
49) 1,4-Dioxane	6.46	88	66	4.777	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	149540	92.625	ug/l	100
52) Toluene	7.63	92	264369	39.081	ug/l	98
53) t-1,3-Dichloropropene	8.29	75	40228	11.343	ug/l	96
54) cis-1,3-Dichloropropene	7.30	75	135043	29.314	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.63	63	39472	196.850	ug/l	100
59) 2-Hexanone	9.50	43	43901	38.693	ug/l	96
60) Dibromochloromethane	8.73	129	40037	14.535	ug/l	91
61) 1,2-Dibromoethane	8.99	107	63753	31.364	ug/l	86
64) Tetrachloroethene	8.16	164	54646	19.437	ug/l	96

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Chlorobenzene	9.81	112	265901	37.116	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	52183	16.700	ug/l	88
68) m/p-Xylenes	10.14	106	184255	38.180	ug/l	90
69) o-Xylene	10.72	106	209935	38.693	ug/l	94
71) Bromoform	10.78	173	46331	32.973	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	18470	6.854	ug/l	94
78) n-propylbenzene	11.61	91	359062	18.887	ug/l	97
79) 2-Chlorotoluene	11.61	91	358868	32.479	ug/l #	41
86) p-Isopropyltoluene	12.46	119	382983	24.602	ug/l	95
87) 1,3-Dichlorobenzene	12.48	146	96747	14.328	ug/l	98
88) 1,4-Dichlorobenzene	12.48	146	96747	14.908	ug/l	95
91) 1,2-Dichlorobenzene	12.95	146	205626	32.343	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.65	75	8792	17.358	ug/l	84
95) Naphthalene	14.47	128	197718	23.713	ug/l	98

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

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Misc : 5.00g/5mL/MSV0A-F/SOIL

```
ALS Vial      : 11      Sample Multiplier: 1
```

Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILD

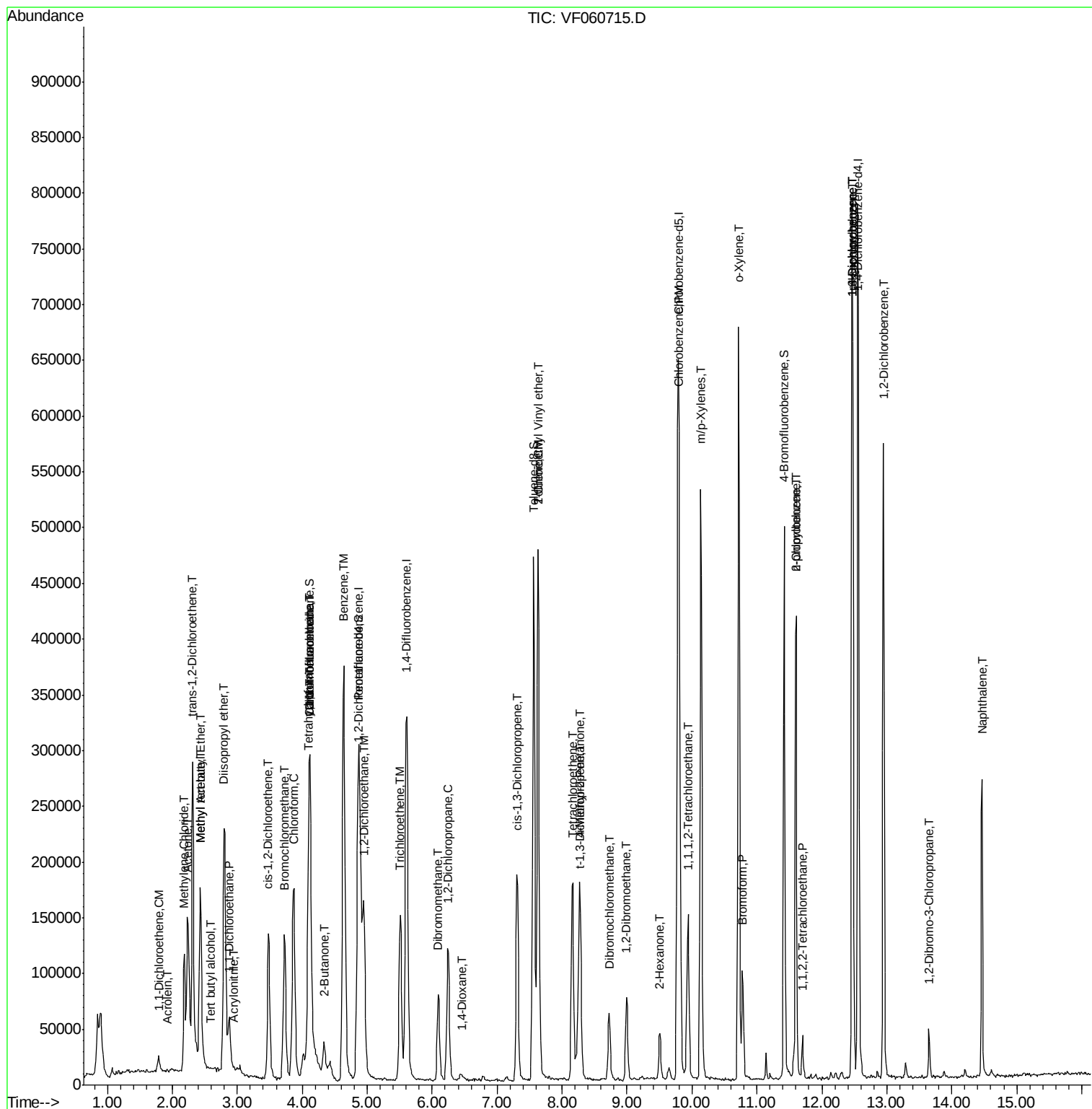
Quant Time: Nov 14 03:21:29 2018

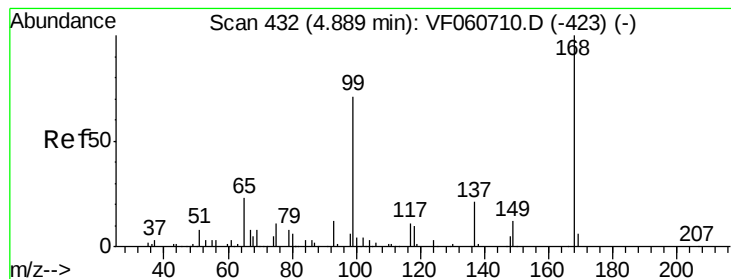
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_F\METHODS\82F111318S.M

Quant Title : SW846 8260

QLast Update : Wed Nov 14 03:11:14 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

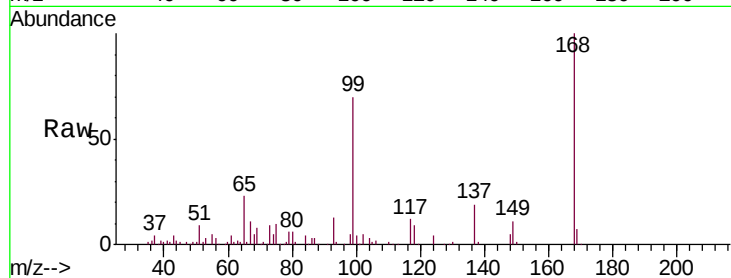
PT-VOA-SOILDL

Tgt Ion:168 Resp: 222091

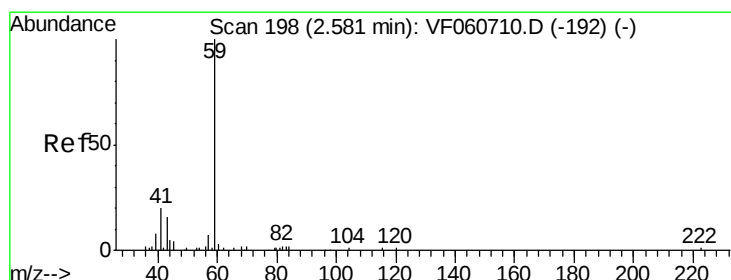
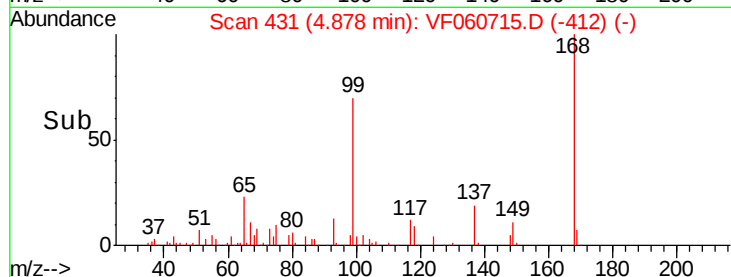
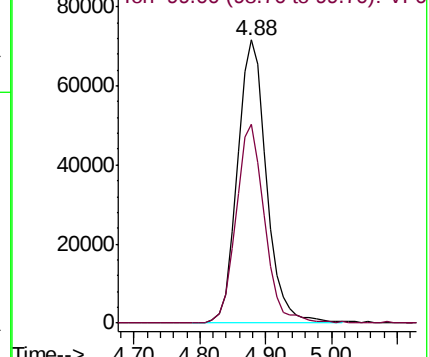
Ion Ratio Lower Upper

168 100

99 70.1 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF060715.D (-412) (-)



#11

Tert butyl alcohol

Concen: 2.784 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.01 min

Lab File: VF060715.D

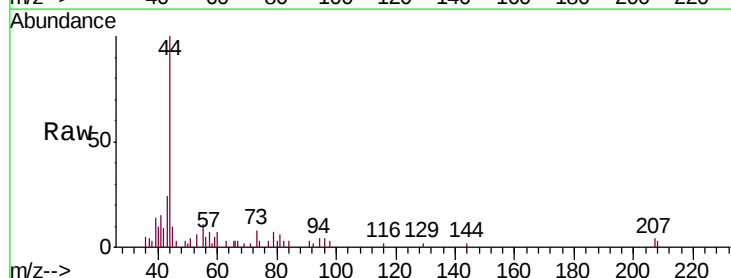
Acq: 13 Nov 2018 16:44

Tgt Ion: 59 Resp: 321

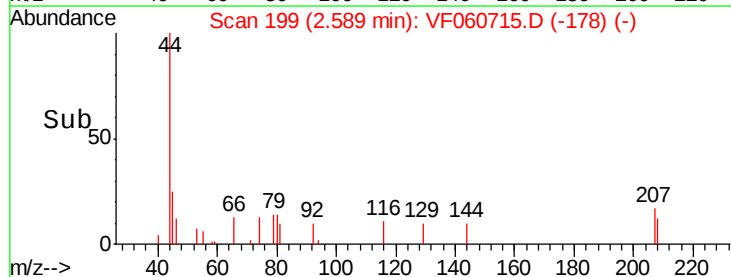
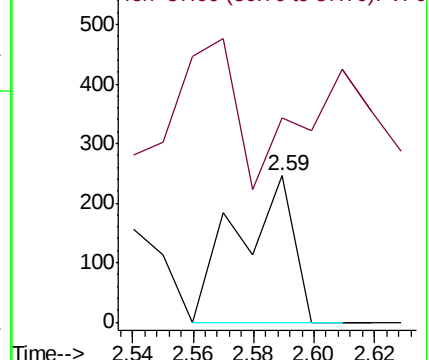
Ion Ratio Lower Upper

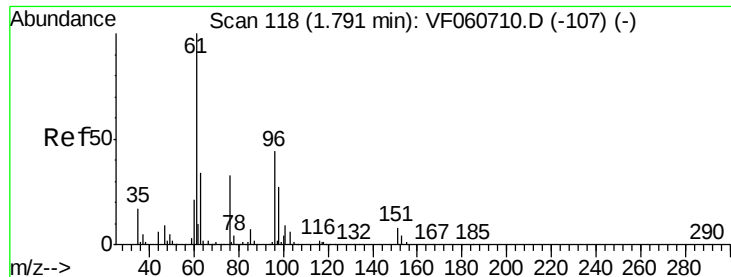
59 100

57 139.8 10.5 15.7#



Abundance Ion 59.00 (58.70 to 59.70): VF060715.D (-178) (-)





#12

1,1-Dichloroethene

Concen: 3.437 ug/l

RT: 1.79 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILDL

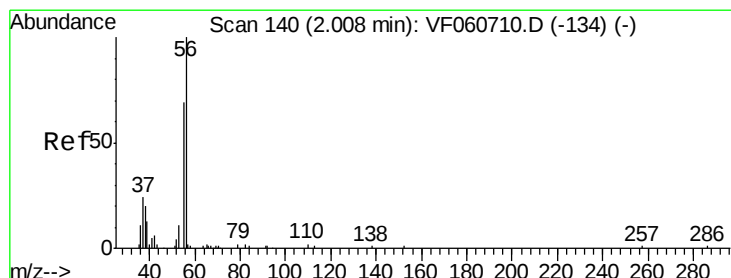
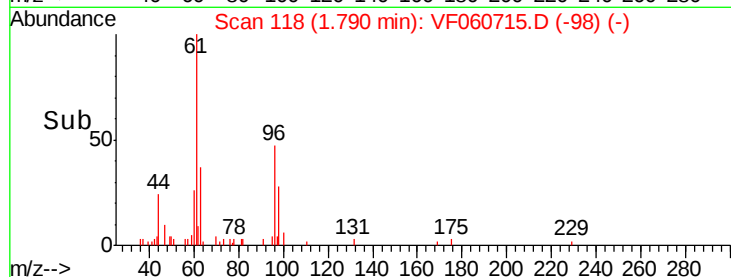
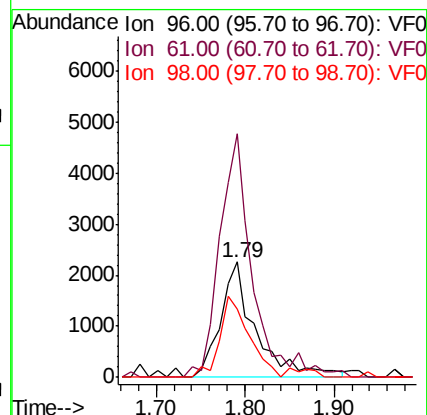
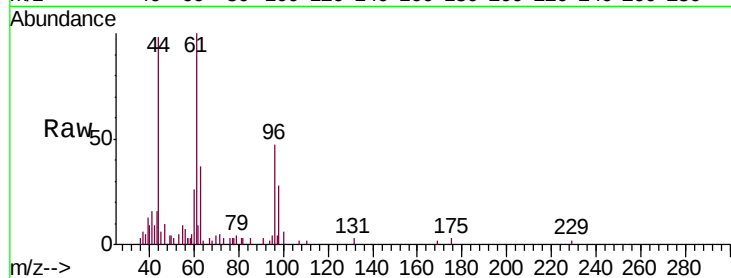
Tgt Ion: 96 Resp: 6228

Ion Ratio Lower Upper

96 100

61 211.3 182.2 273.2

98 58.8 49.2 73.8



#13

Acrolein

Concen: 3.614 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.10 min

Lab File: VF060715.D

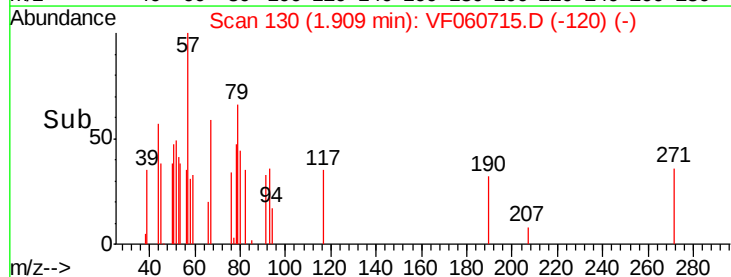
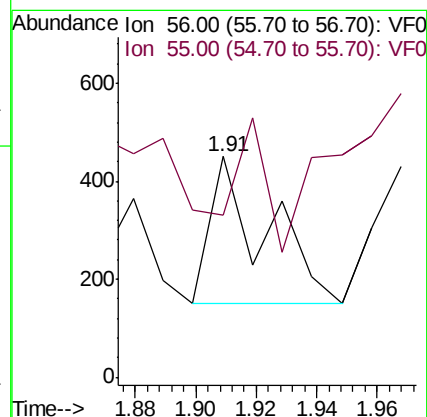
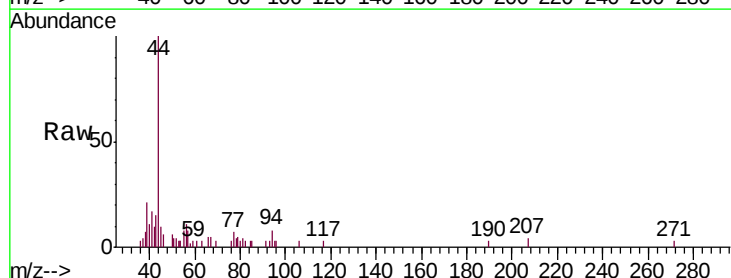
Acq: 13 Nov 2018 16:44

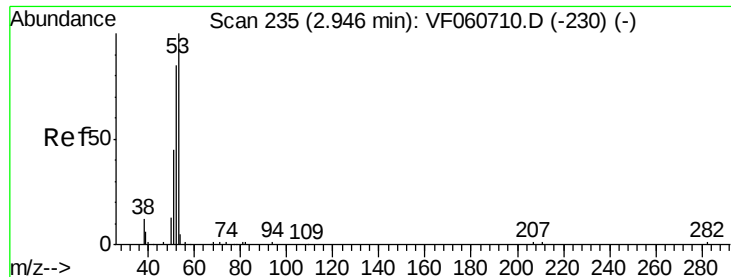
Tgt Ion: 56 Resp: 381

Ion Ratio Lower Upper

56 100

55 73.8 56.6 85.0





#15

Acrylonitrile

Concen: 2.630 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILD

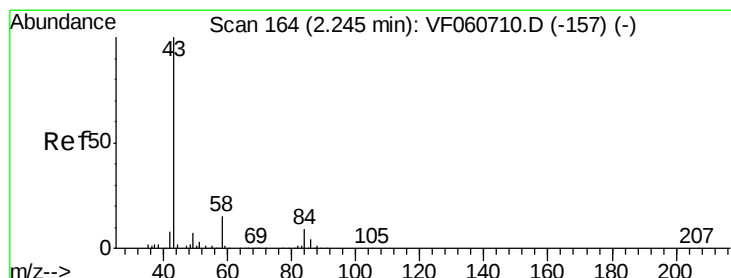
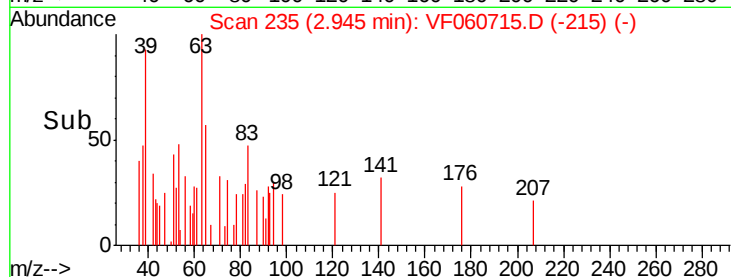
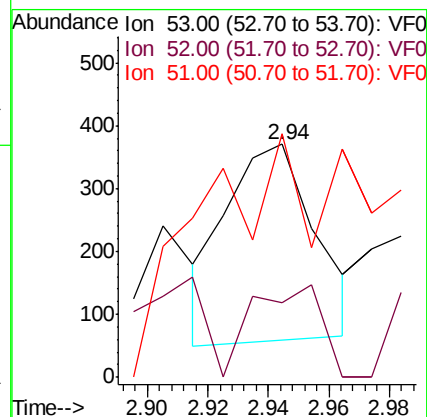
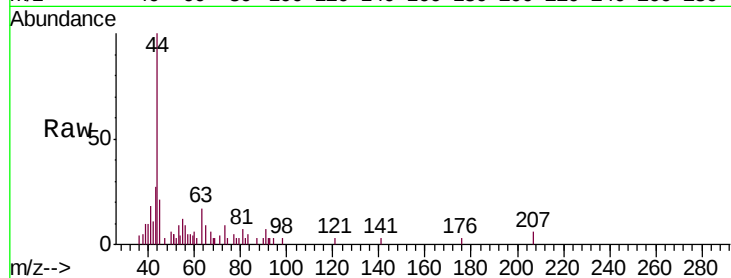
Tgt Ion: 53 Resp: 646

Ion Ratio Lower Upper

53 100

52 32.2 68.8 103.2#

51 104.6 36.7 55.1#



#16

Acetone

Concen: 186.385 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF060715.D

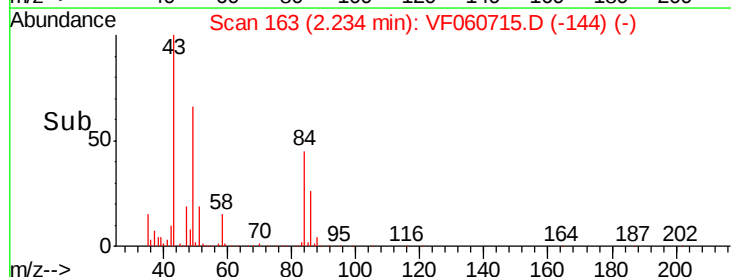
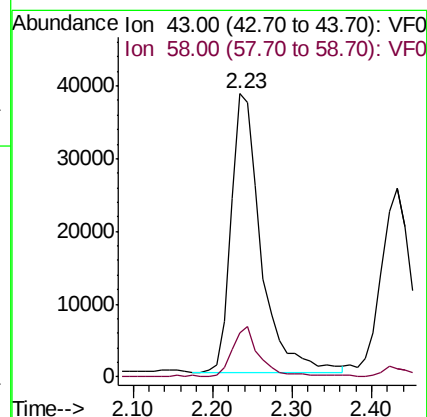
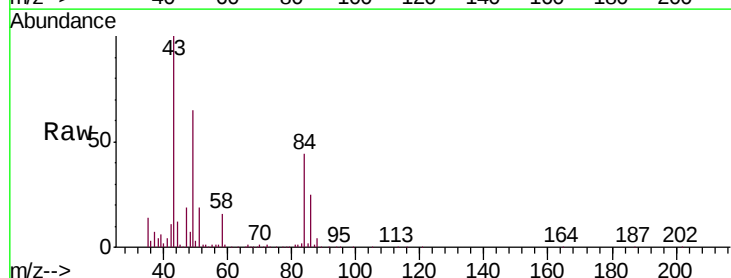
Acq: 13 Nov 2018 16:44

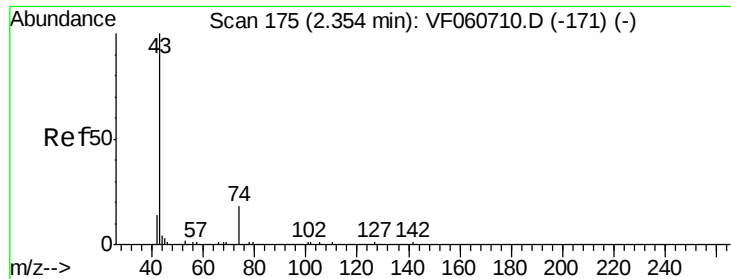
Tgt Ion: 43 Resp: 100919

Ion Ratio Lower Upper

43 100

58 15.5 11.6 17.4

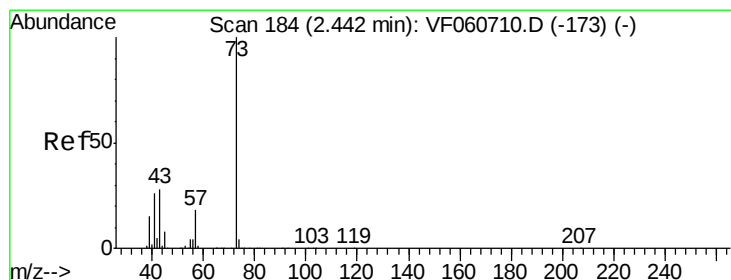
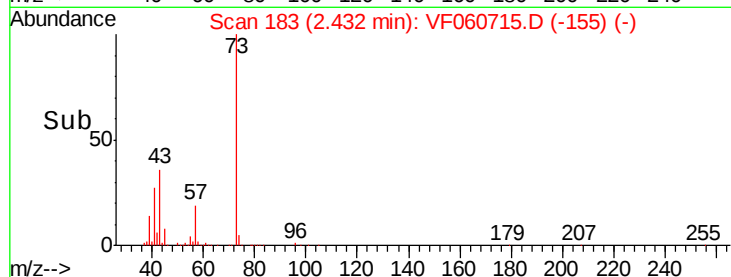
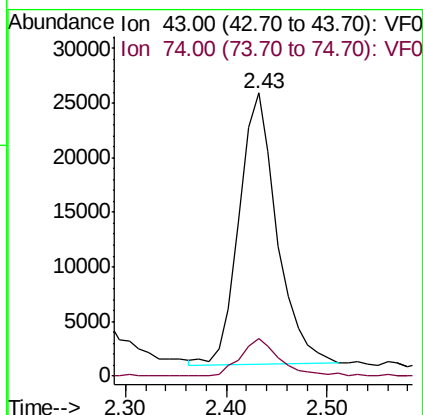
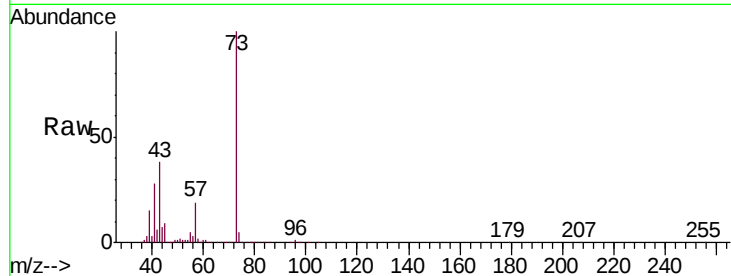




#18
Methyl Acetate
Concen: 72.923 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.08 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

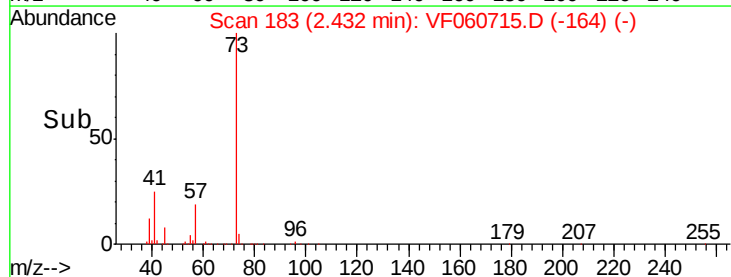
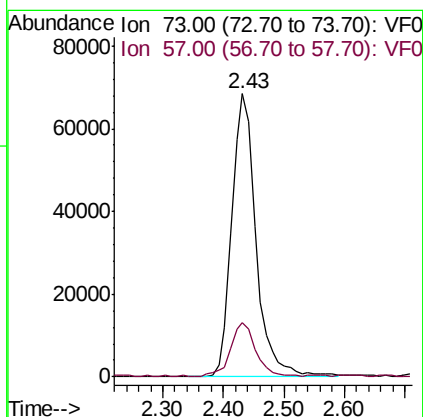
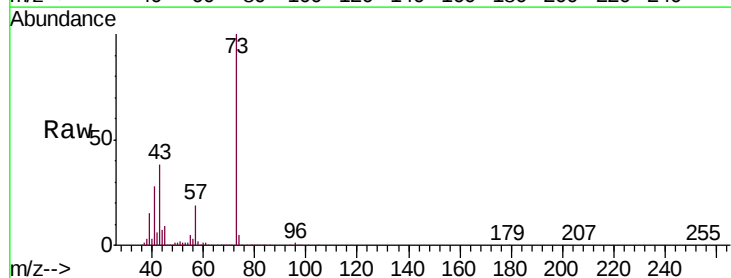
Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILD

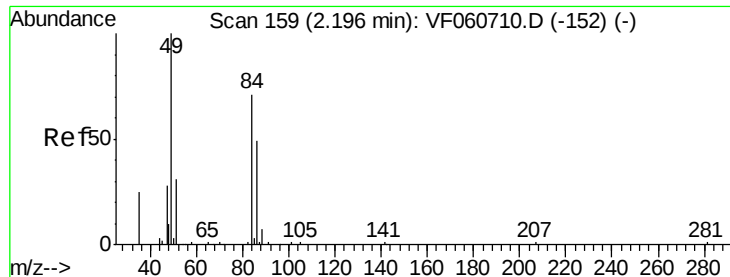
Tgt Ion: 43 Resp: 64835
Ion Ratio Lower Upper
43 100
74 13.5 11.8 17.8



#19
Methyl tert-butyl Ether
Concen: 43.948 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Tgt Ion: 73 Resp: 191032
Ion Ratio Lower Upper
73 100
57 19.2 14.3 21.5





#20

Methylene Chloride

Concen: 21.576 ug/l

RT: 2.19 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILD

Tgt Ion: 84 Resp: 41753

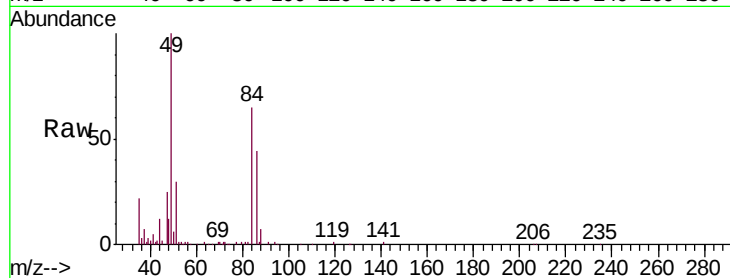
Ion Ratio Lower Upper

84 100

49 153.4 120.2 180.4

51 46.3 37.2 55.8

86 67.7 55.1 82.7

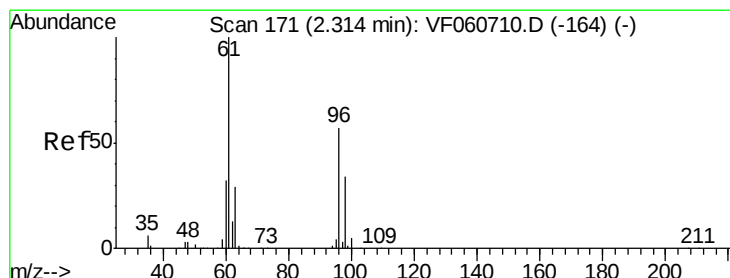
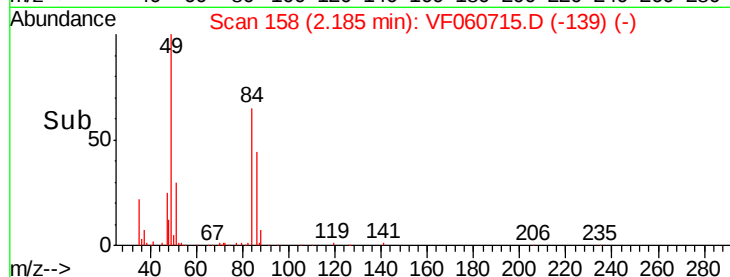
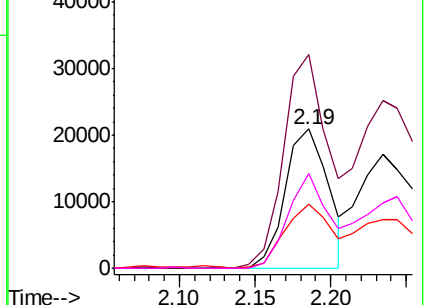


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#21

trans-1,2-Dichloroethene

Concen: 53.721 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

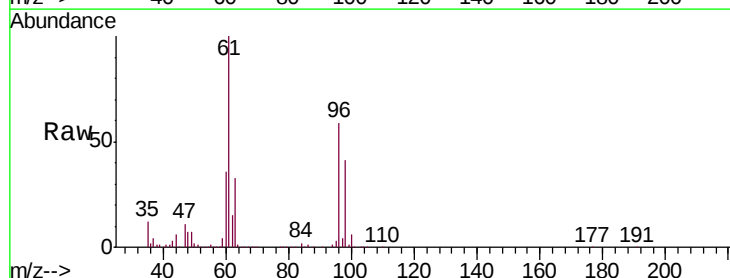
Tgt Ion: 96 Resp: 101696

Ion Ratio Lower Upper

96 100

61 169.5 141.6 212.4

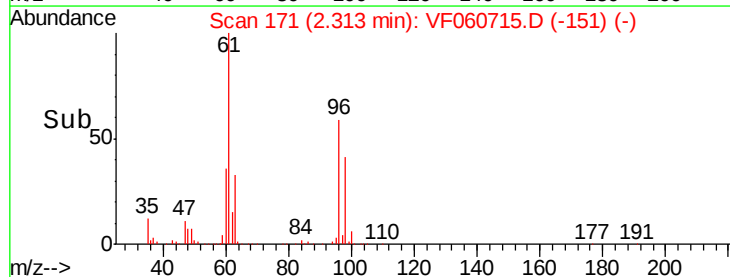
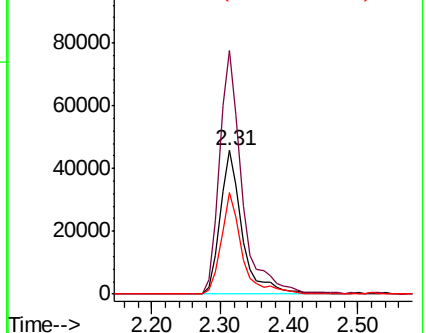
98 70.3 47.4 71.0

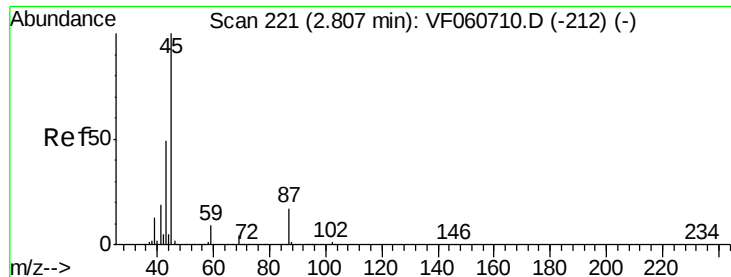


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#22

Diisopropyl ether

Concen: 45.869 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILDL

Tgt Ion: 45 Resp: 281100

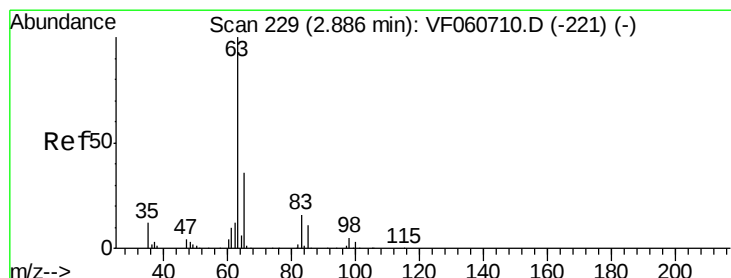
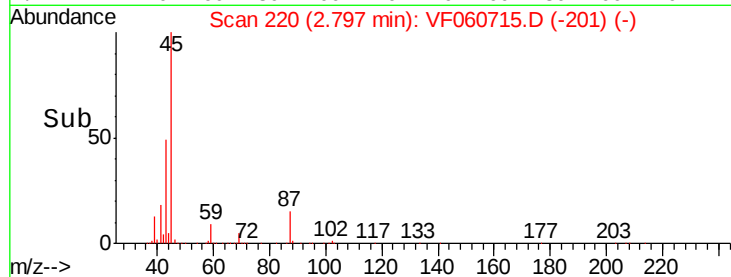
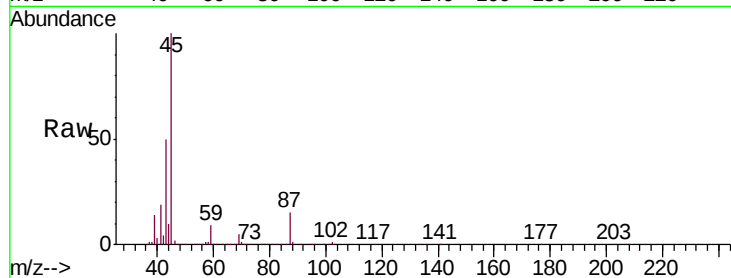
Ion	Ratio	Lower	Upper
45	100		
43	49.5	39.9	59.9
87	15.4	13.9	20.9
59	8.7	7.1	10.7

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



#24

1,1-Dichloroethane

Concen: 13.075 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

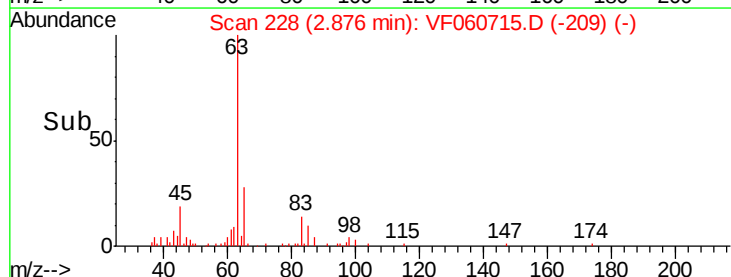
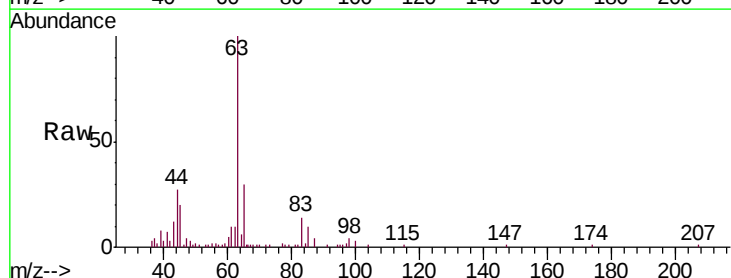
Tgt Ion: 63 Resp: 48509

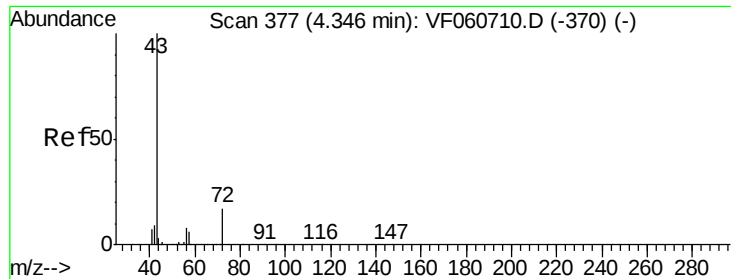
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.4	7.1
100	3.5	1.4	4.2

Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 77.858 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

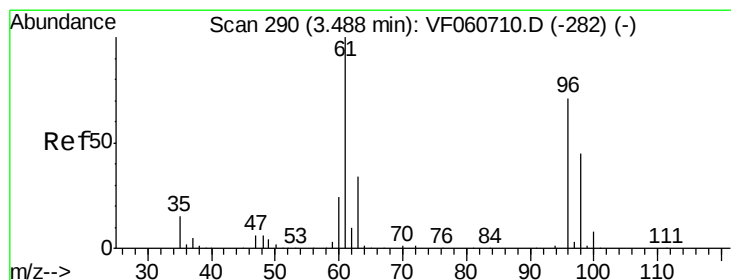
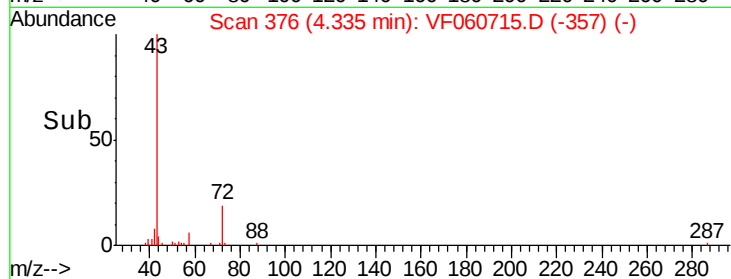
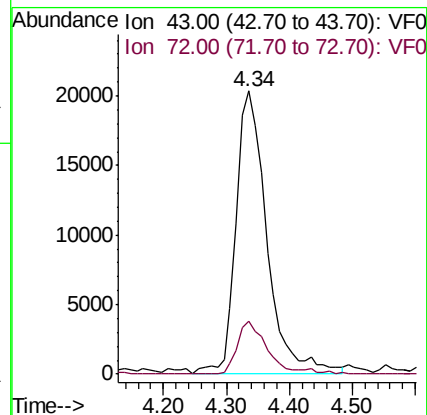
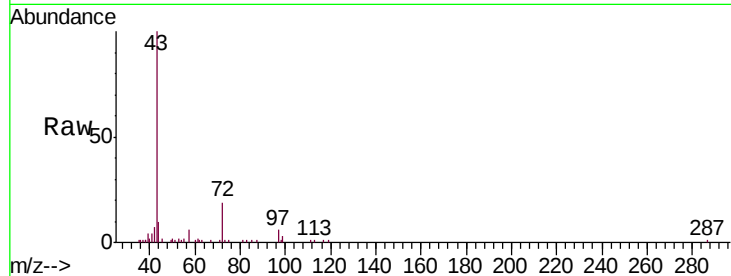
PT-VOA-SOILD

Tgt Ion: 43 Resp: 69341

Ion Ratio Lower Upper

43 100

72 18.9 16.1 24.1



#27

cis-1,2-Dichloroethene

Concen: 23.569 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

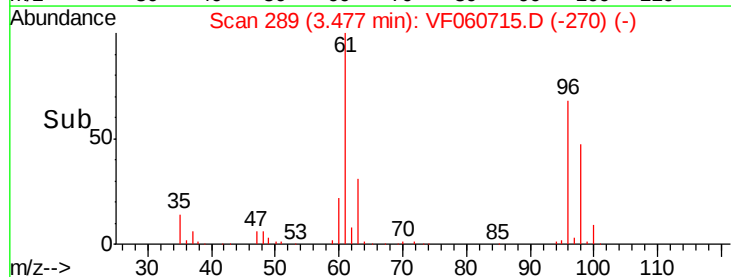
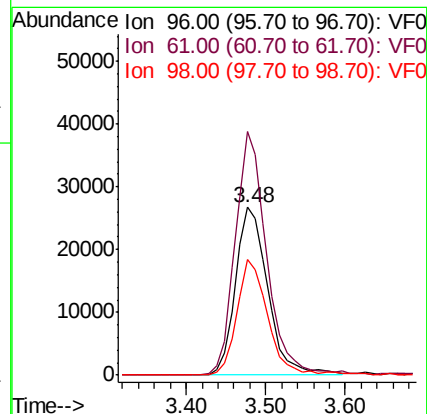
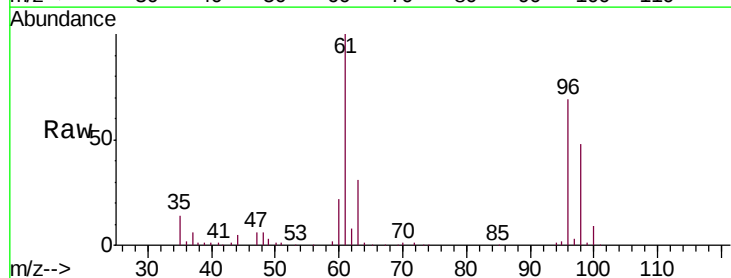
Tgt Ion: 96 Resp: 75901

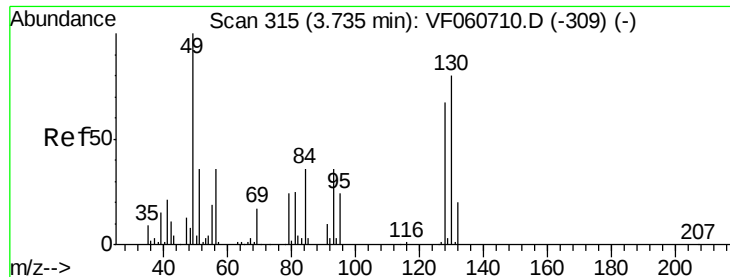
Ion Ratio Lower Upper

96 100

61 145.1 0.0 280.6

98 69.1 0.0 127.6





#28

Bromochloromethane

Concen: 44.488 ug/l

RT: 3.72 min Scan# 314

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILD

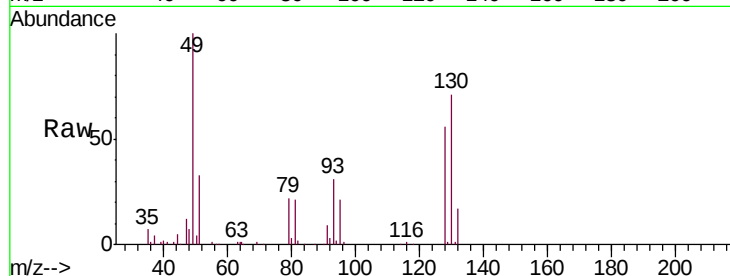
Tgt Ion: 49 Resp: 85780

Ion Ratio Lower Upper

49 100

129 1.3 0.0 5.2

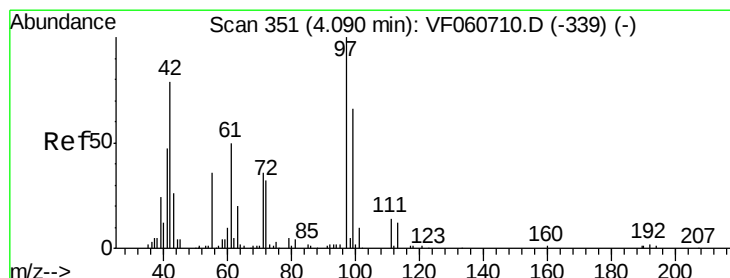
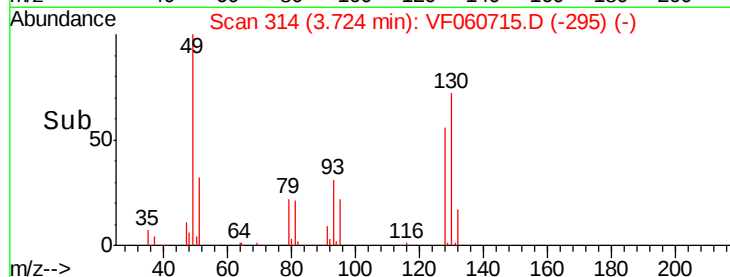
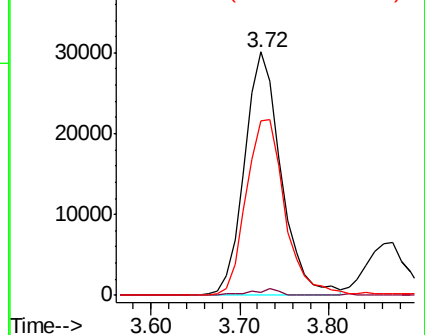
130 71.5 63.9 95.9



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 4.249 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

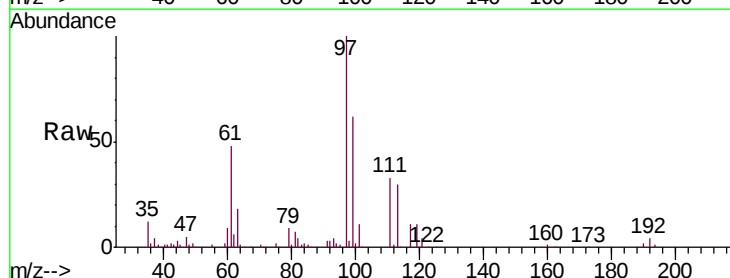
Tgt Ion: 42 Resp: 1561

Ion Ratio Lower Upper

42 100

72 38.9 30.3 45.5

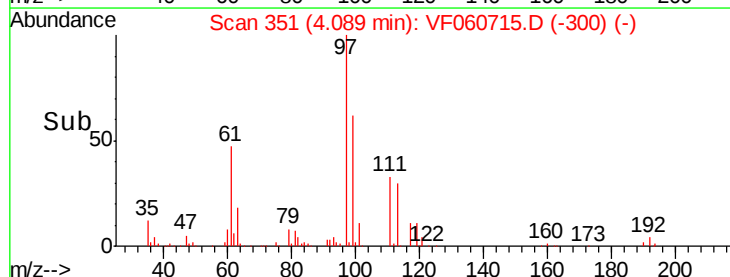
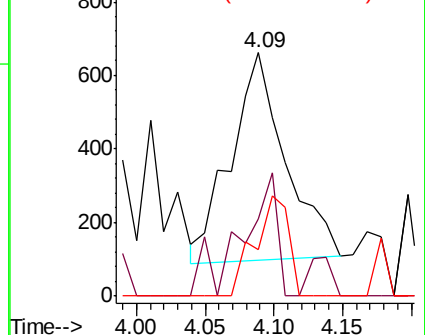
71 29.9 32.2 48.2#

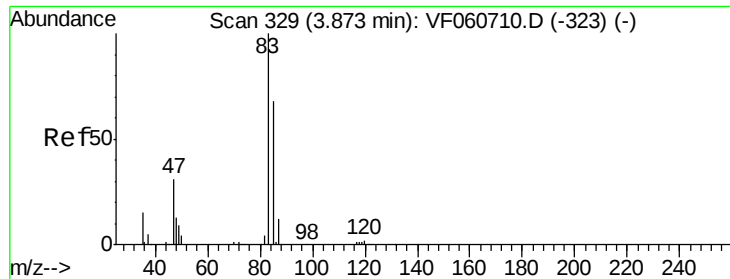


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

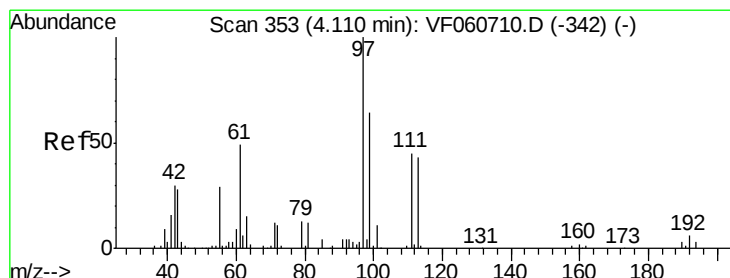
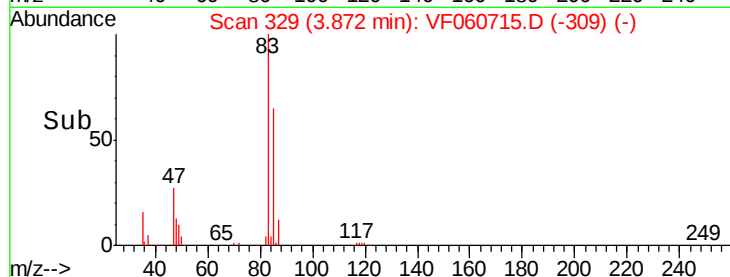
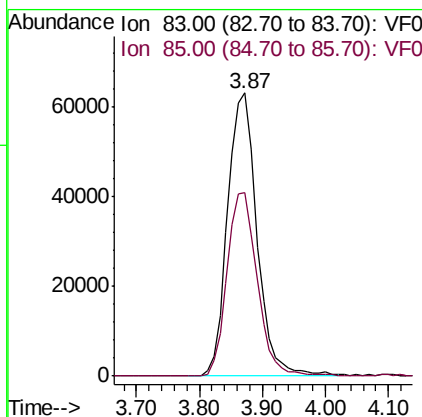
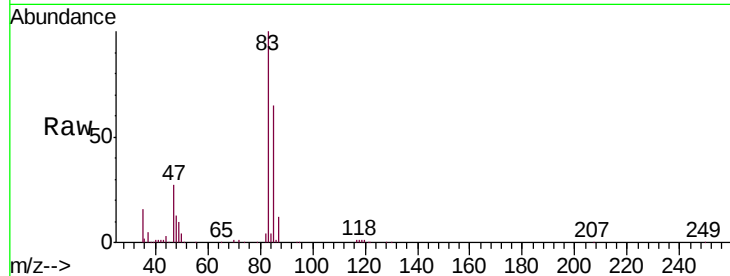




#30
Chloroform
Concen: 34.277 ug/l
RT: 3.87 min Scan# 329
Delta R.T. -0.00 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

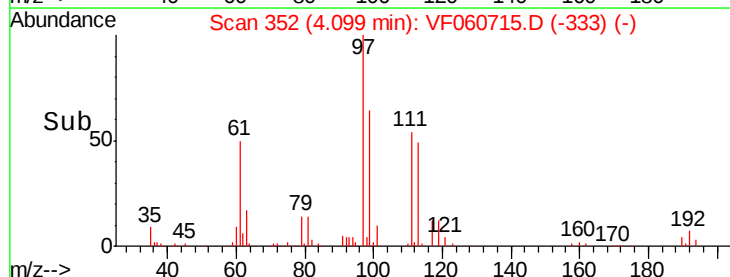
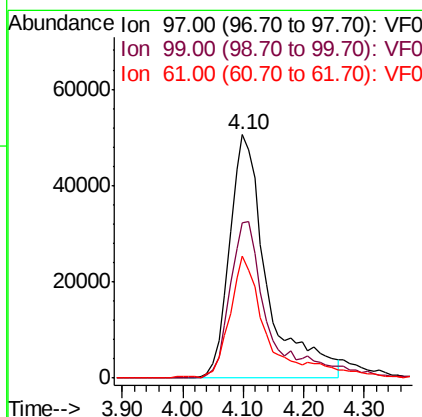
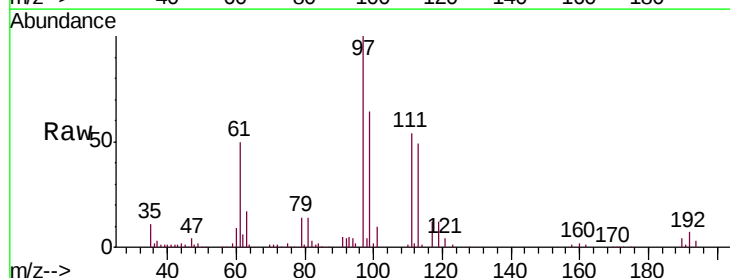
Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILD

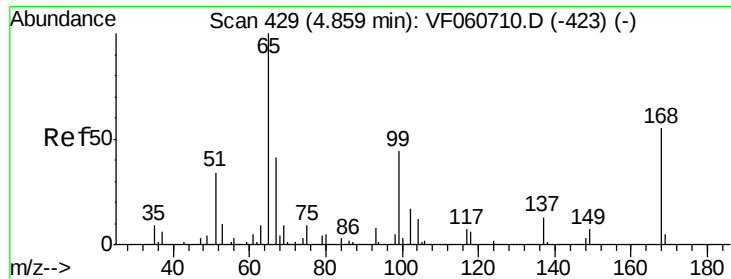
Tgt Ion: 83 Resp: 204042
Ion Ratio Lower Upper
83 100
85 64.9 54.6 82.0



#32
1,1,1-Trichloroethane
Concen: 46.774 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Tgt Ion: 97 Resp: 219267
Ion Ratio Lower Upper
97 100
99 63.9 51.1 76.7
61 50.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 46.357 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

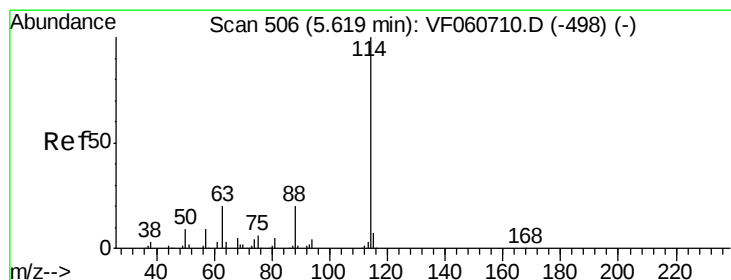
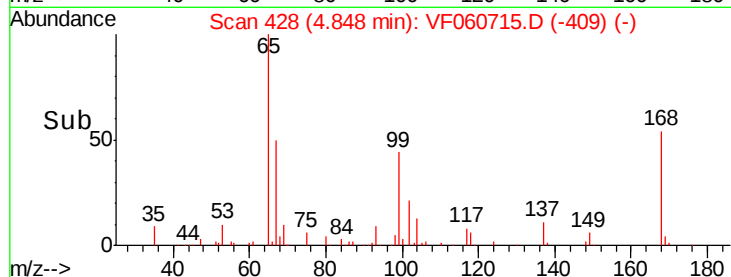
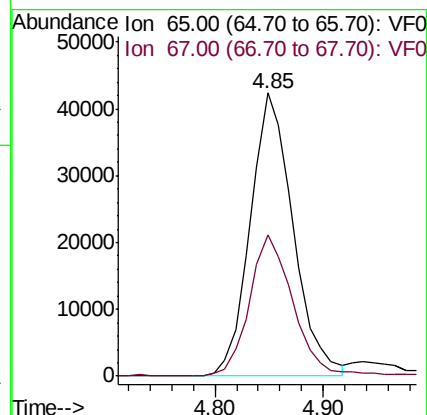
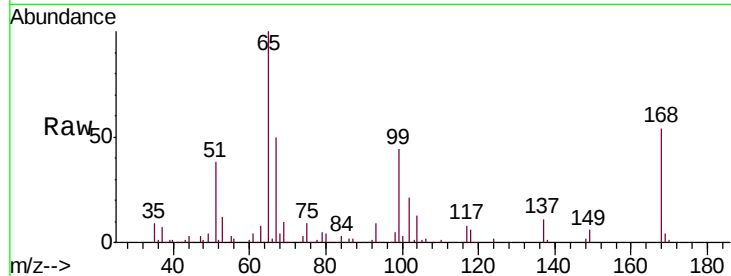
PT-VOA-SOILDL

Tgt Ion: 65 Resp: 117433

Ion Ratio Lower Upper

65 100

67 49.9 0.0 90.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

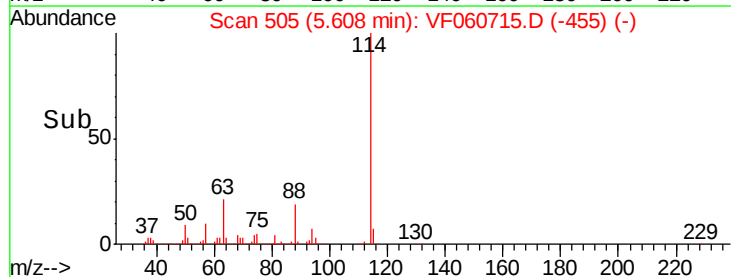
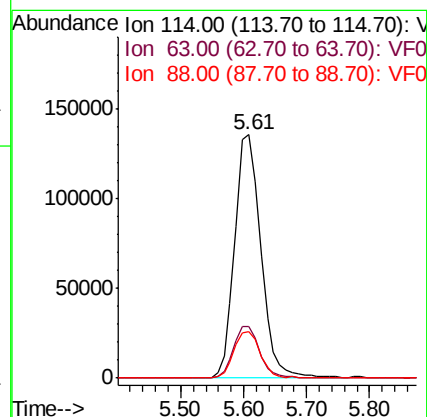
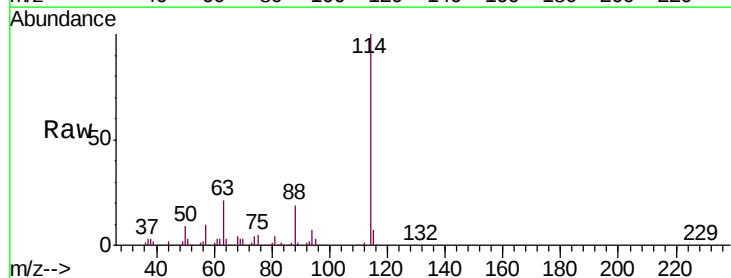
Tgt Ion: 114 Resp: 390469

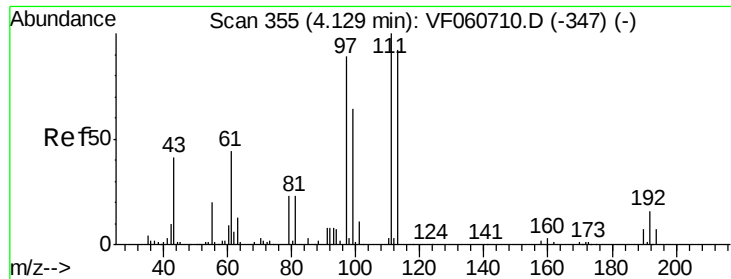
Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.8

88 19.1 0.0 39.6





#35

Dibromofluoromethane

Concen: 51.041 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILDL

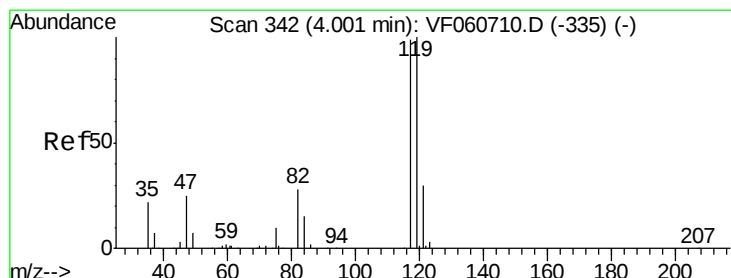
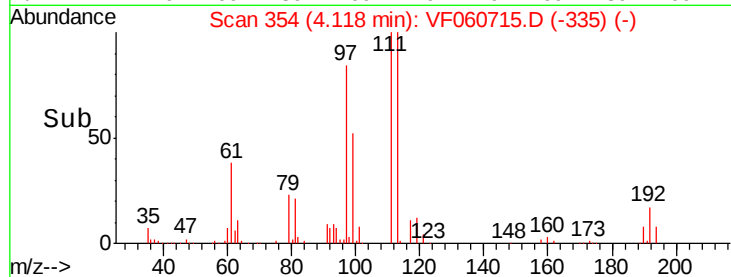
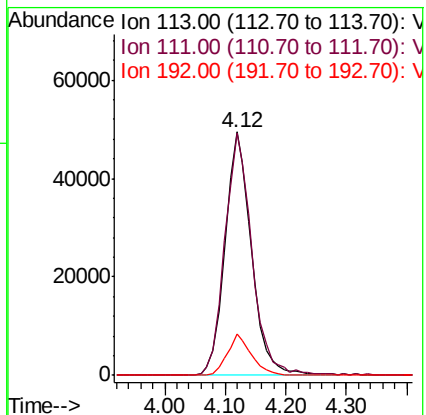
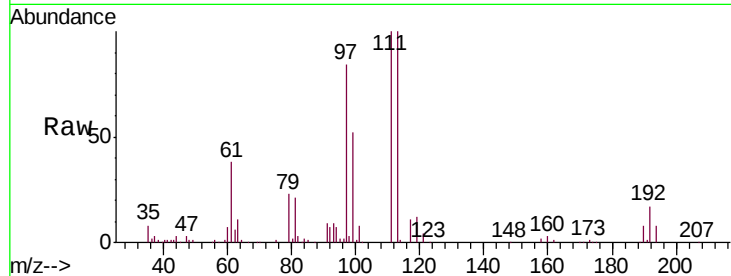
Tgt Ion:113 Resp: 149813

Ion Ratio Lower Upper

113 100

111 99.7 87.1 130.7

192 16.8 13.8 20.6



#38

Carbon Tetrachloride

Concen: 5.158 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.10 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

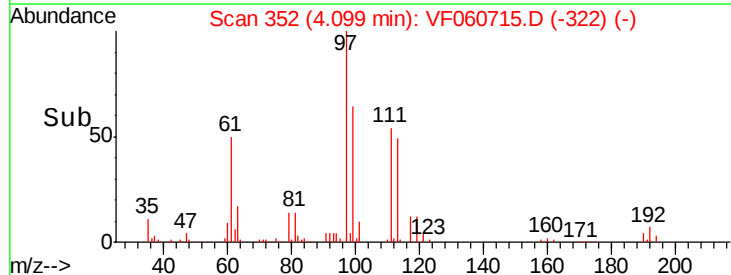
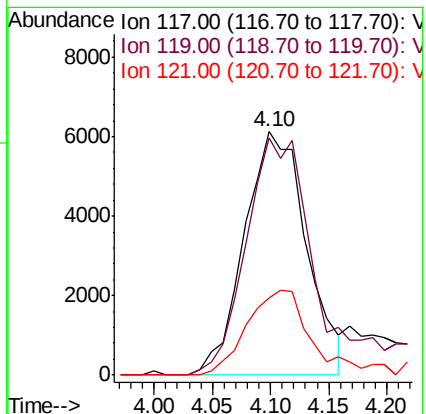
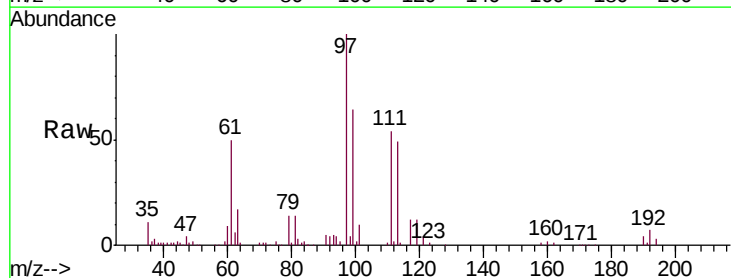
Tgt Ion:117 Resp: 22664

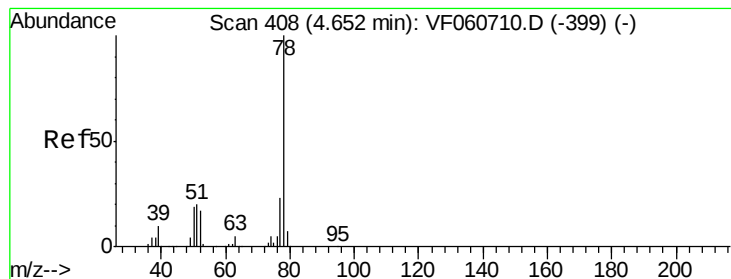
Ion Ratio Lower Upper

117 100

119 97.2 80.7 121.1

121 32.0 24.3 36.5





#40

Benzene

Concen: 47.444 ug/l

RT: 4.64 min Scan# 407

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

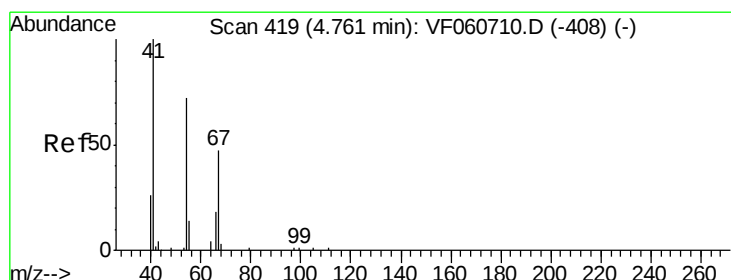
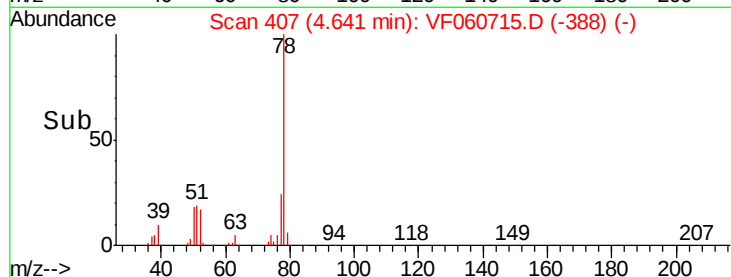
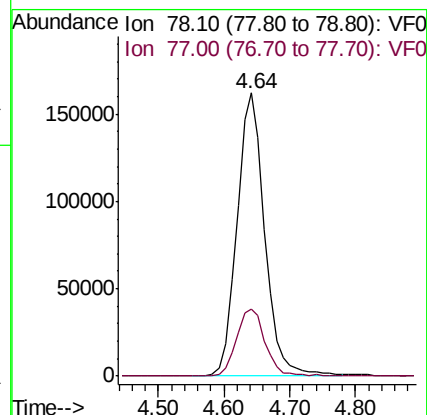
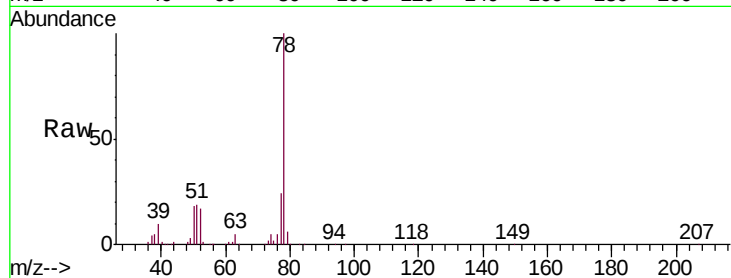
PT-VOA-SOILDL

Tgt Ion: 78 Resp: 478933

Ion Ratio Lower Upper

78 100

77 23.6 18.6 28.0



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.72 min Scan# 415

Delta R.T. -0.04 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Tgt Ion: 41 Resp: 259

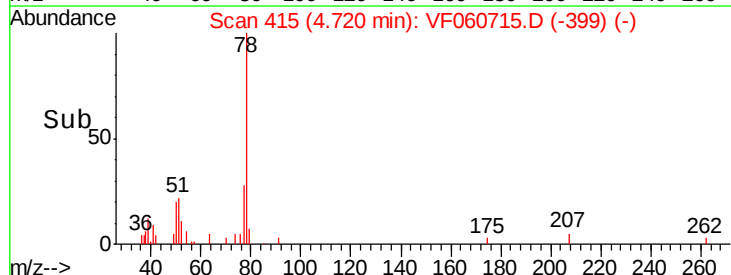
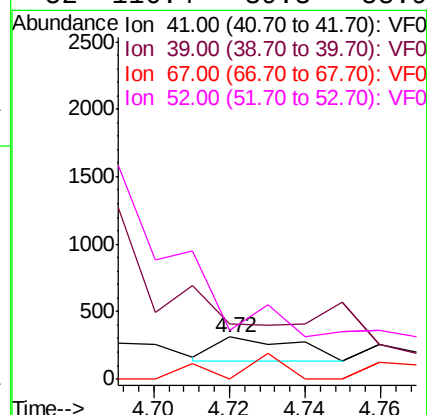
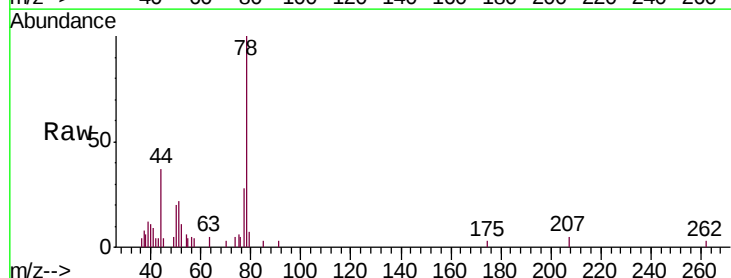
Ion Ratio Lower Upper

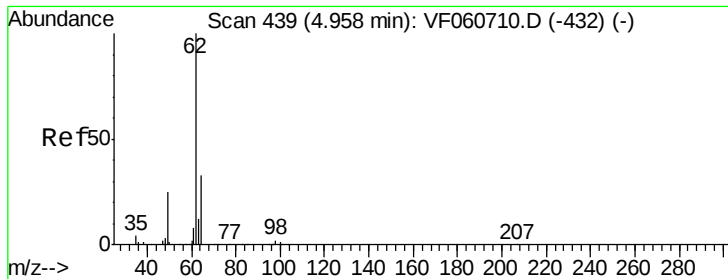
41 100

39 130.9 47.1 70.7#

67 0.0 37.1 55.7#

52 116.4 39.3 58.9#





#42

1,2-Dichloroethane

Concen: 43.747 ug/l

RT: 4.95 min Scan# 438

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

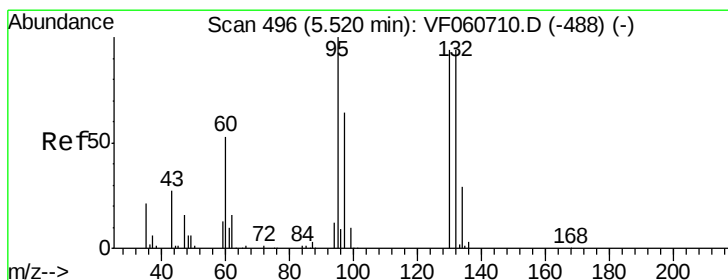
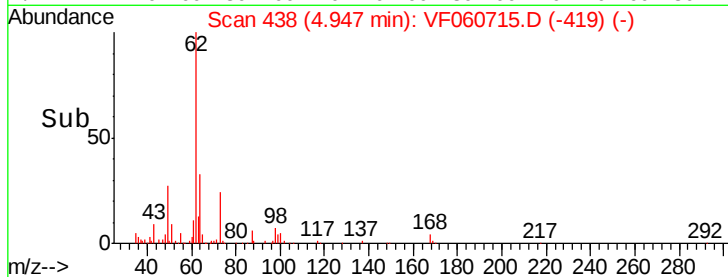
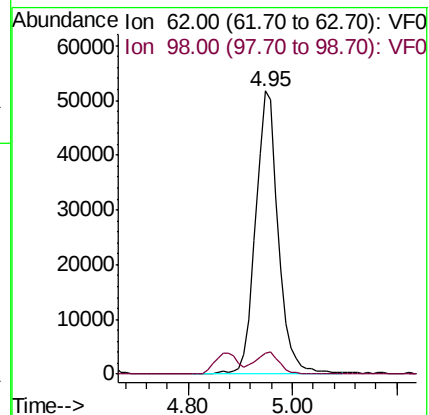
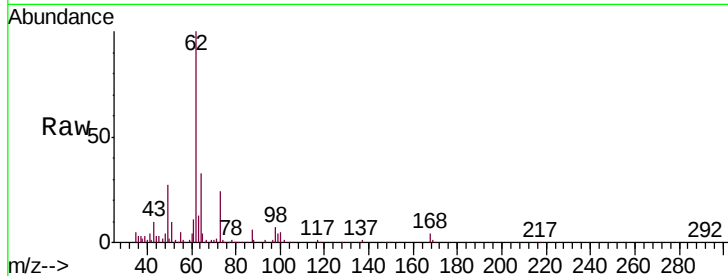
PT-VOA-SOILDL

Tgt Ion: 62 Resp: 152607

Ion Ratio Lower Upper

62 100

98 7.3 0.0 16.6



#44

Trichloroethene

Concen: 21.607 ug/l

RT: 5.51 min Scan# 495

Delta R.T. -0.01 min

Lab File: VF060715.D

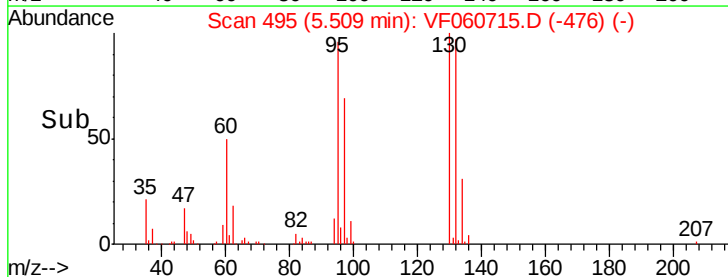
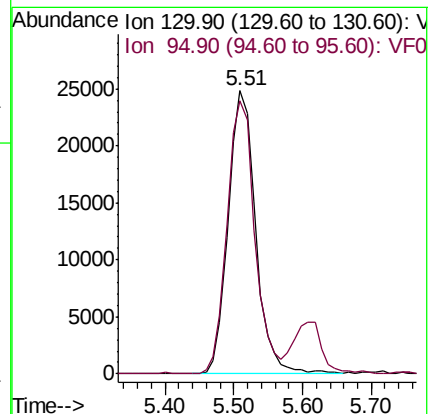
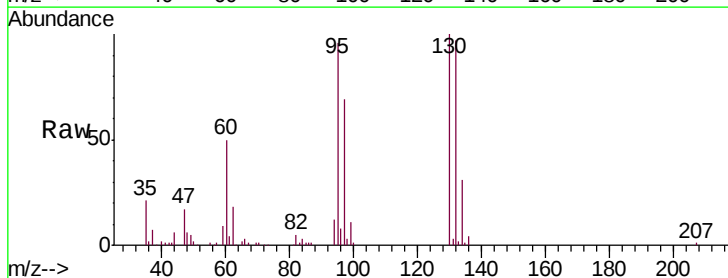
Acq: 13 Nov 2018 16:44

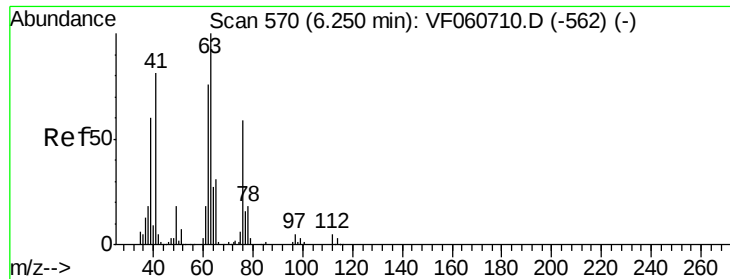
Tgt Ion: 130 Resp: 68818

Ion Ratio Lower Upper

130 100

95 96.4 0.0 212.6





#45

1,2-Dichloropropane

Concen: 22.351 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

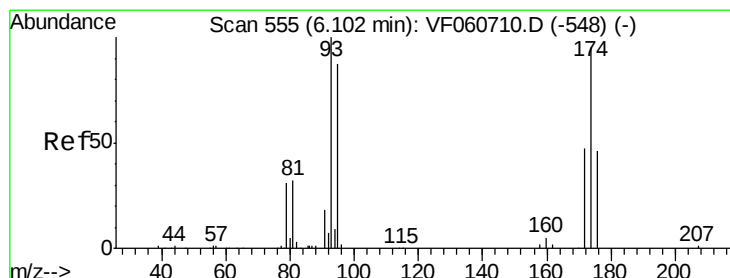
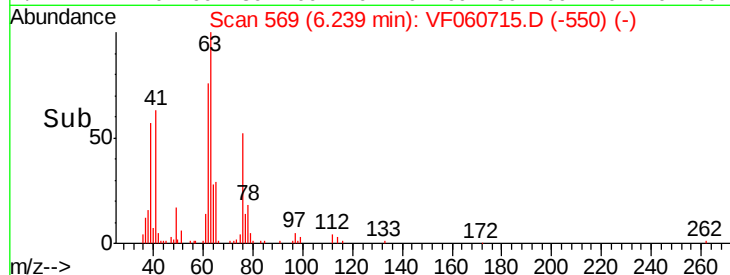
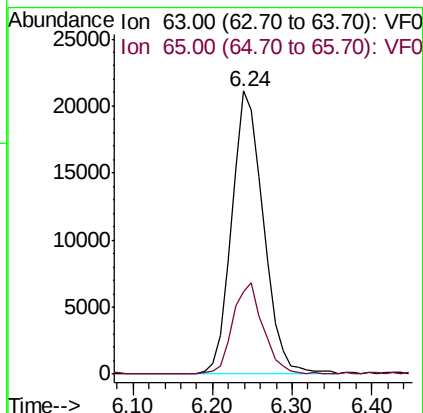
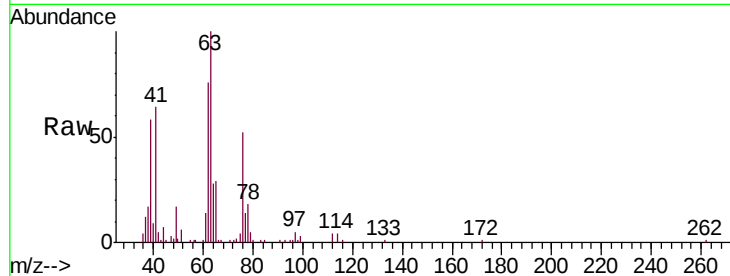
PT-VOA-SOILDL

Tgt Ion: 63 Resp: 58711

Ion Ratio Lower Upper

63 100

65 29.3 24.6 36.8



#46

Dibromomethane

Concen: 23.839 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

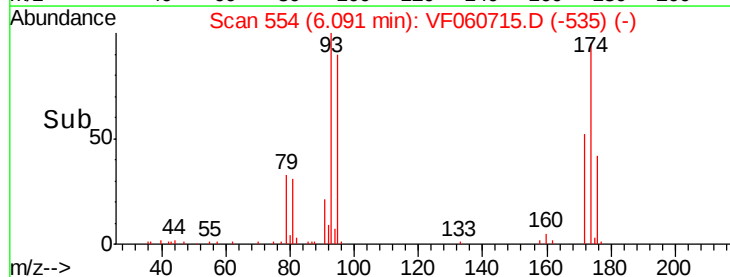
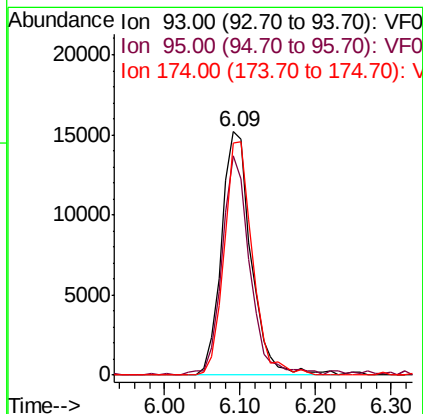
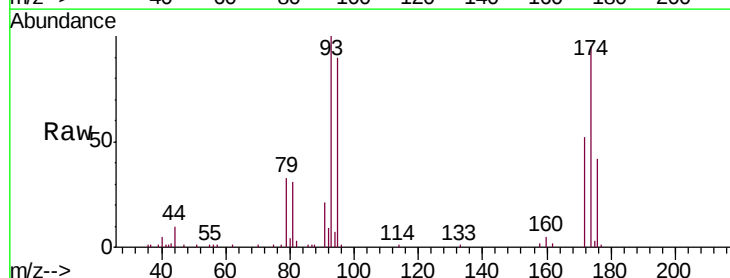
Tgt Ion: 93 Resp: 41336

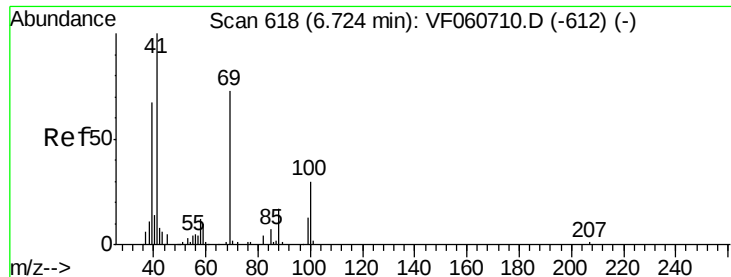
Ion Ratio Lower Upper

93 100

95 90.3 69.5 104.3

174 95.1 76.2 114.2





#49

1,4-Dioxane

Concen: 4.777 ug/l

RT: 6.46 min Scan# 591

Delta R.T. -0.27 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILD

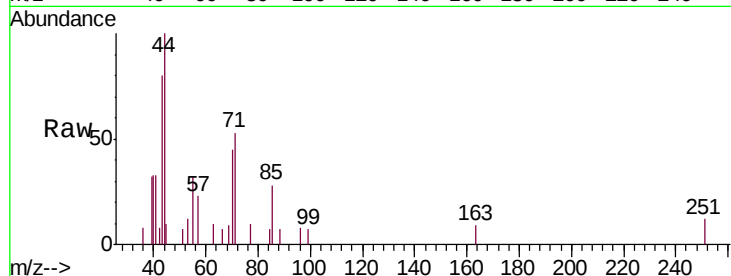
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 1120.5 44.6 66.8#

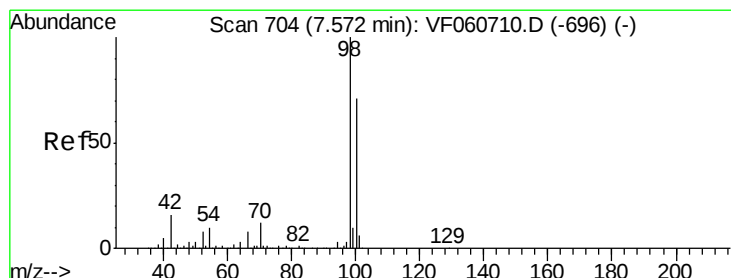
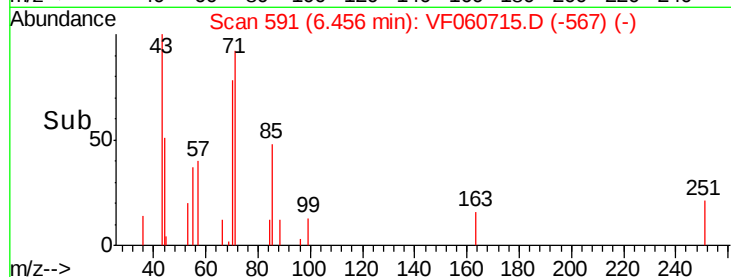
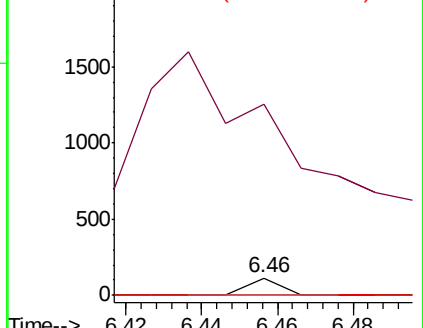
58 0.0 54.5 81.7#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.627 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF060715.D

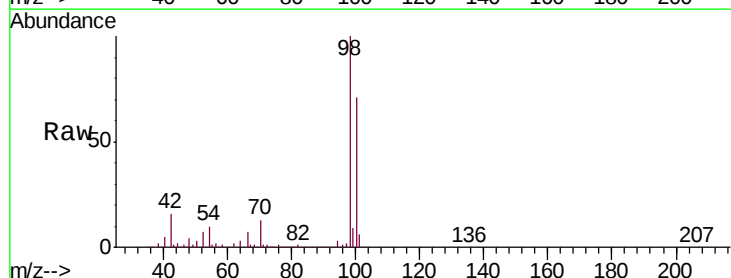
Acq: 13 Nov 2018 16:44

Tgt Ion: 98 Resp: 387948

Ion Ratio Lower Upper

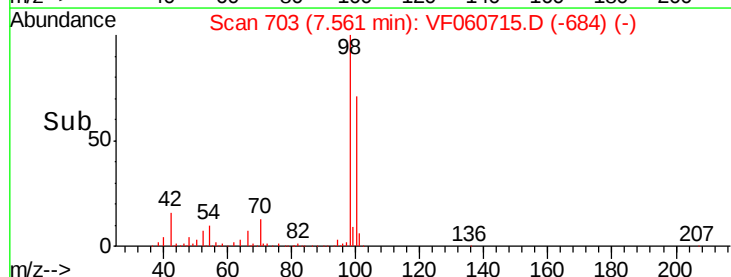
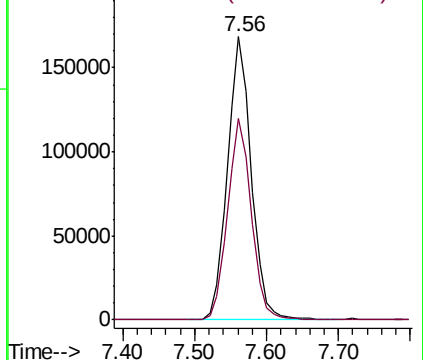
98 100

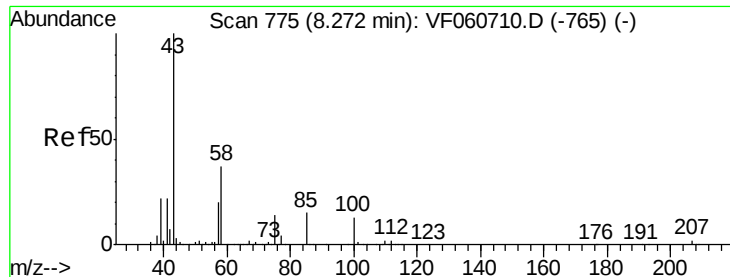
100 71.2 56.5 84.7



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: 92.625 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

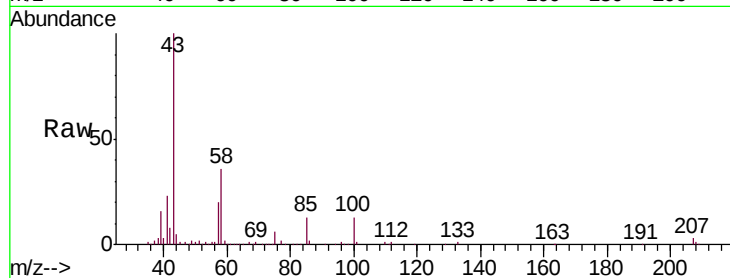
PT-VOA-SOILD

Tgt Ion: 43 Resp: 149540

Ion Ratio Lower Upper

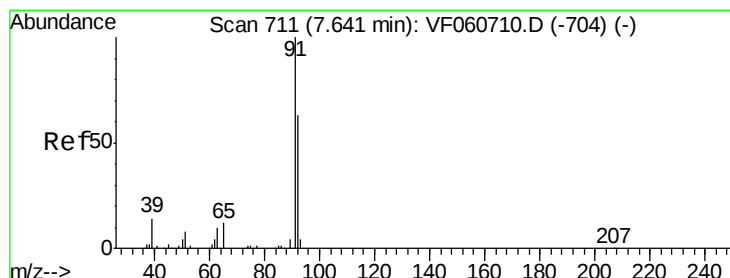
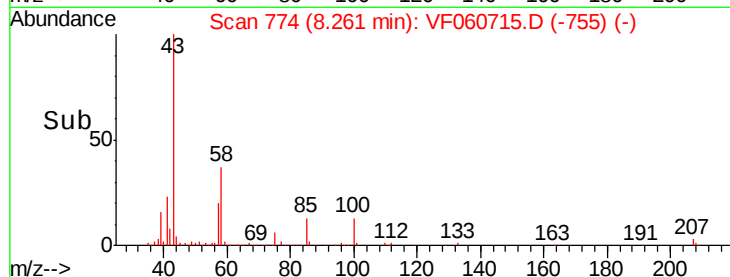
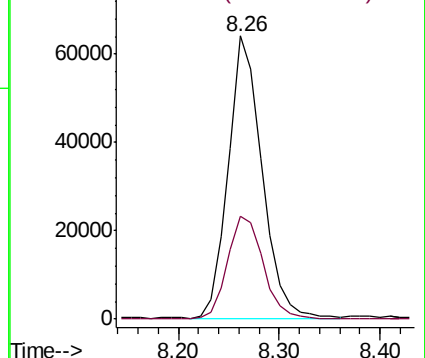
43 100

58 36.5 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 39.081 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060715.D

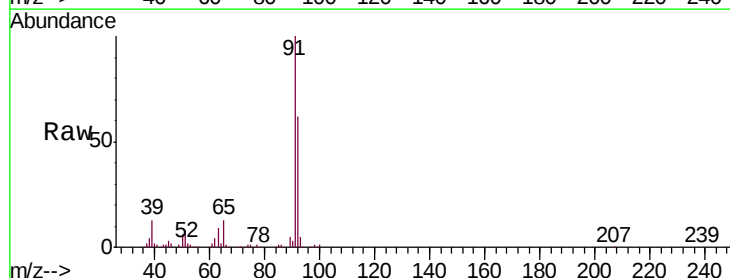
Acq: 13 Nov 2018 16:44

Tgt Ion: 92 Resp: 264369

Ion Ratio Lower Upper

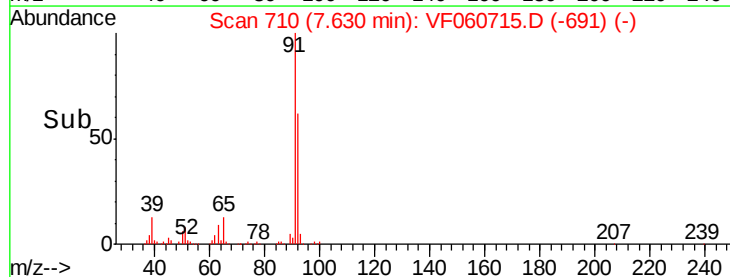
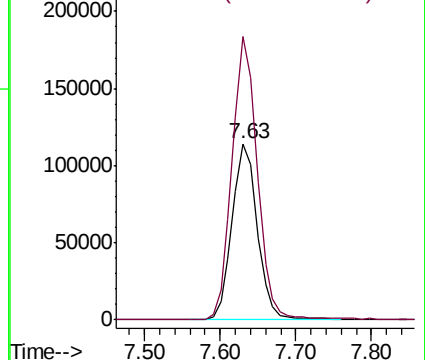
92 100

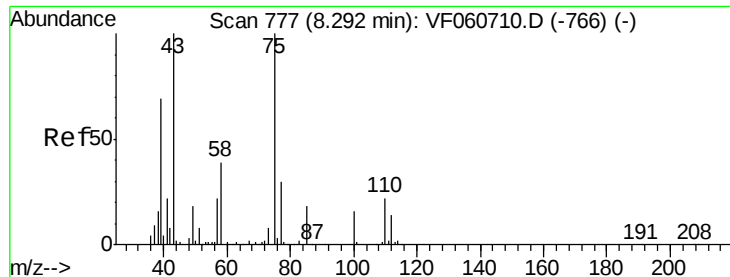
91 160.8 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 11.343 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

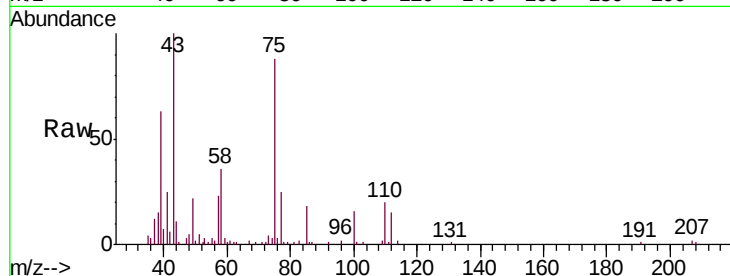
PT-VOA-SOILDL

Tgt Ion: 75 Resp: 40228

Ion Ratio Lower Upper

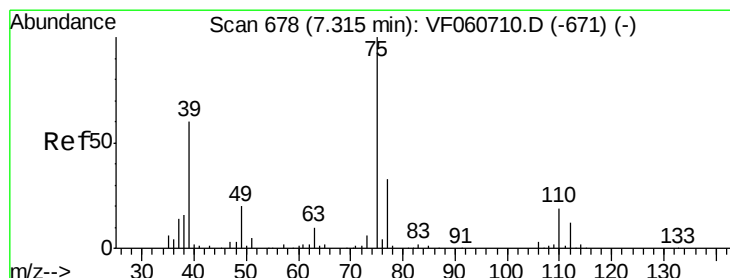
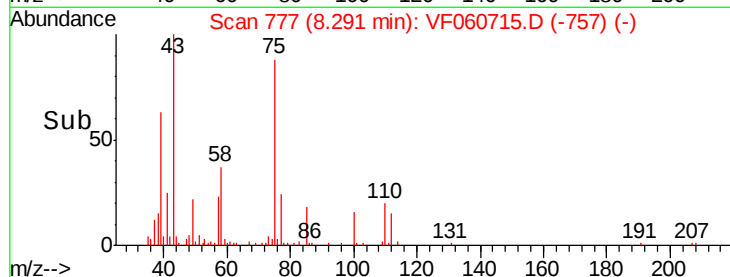
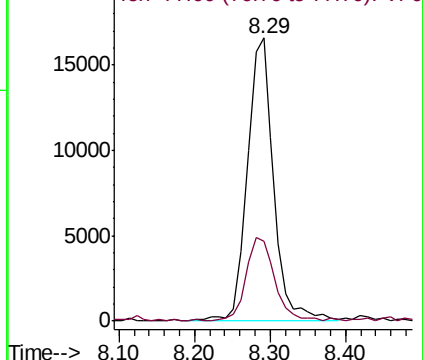
75 100

77 28.3 24.6 36.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 29.314 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

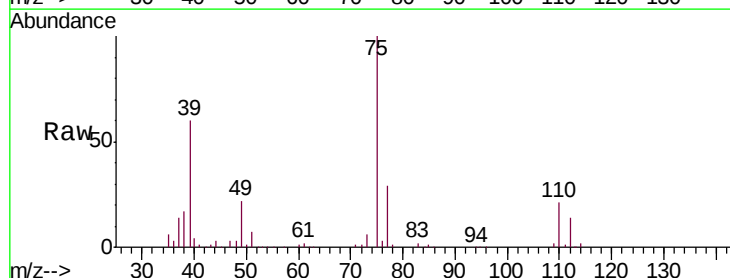
Tgt Ion: 75 Resp: 135043

Ion Ratio Lower Upper

75 100

77 29.0 26.5 39.7

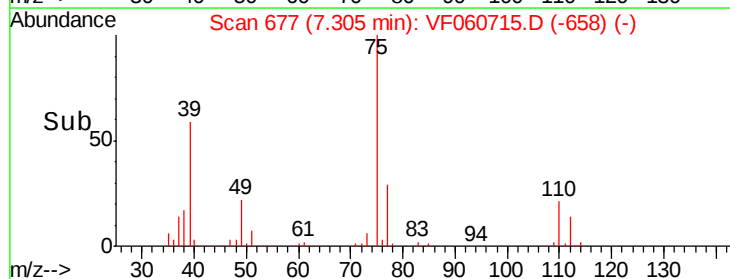
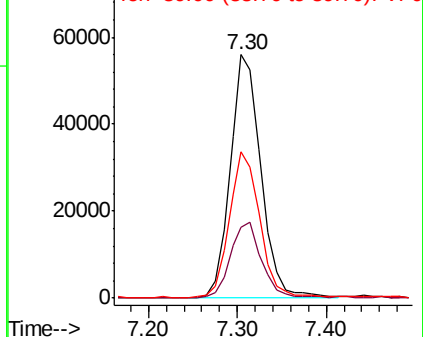
39 59.9 48.5 72.7

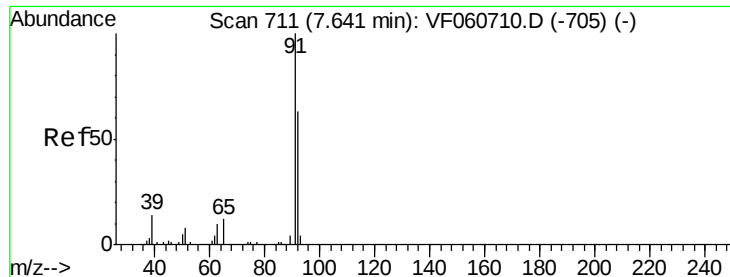


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

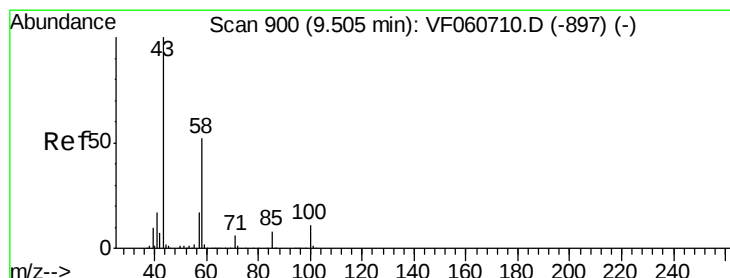
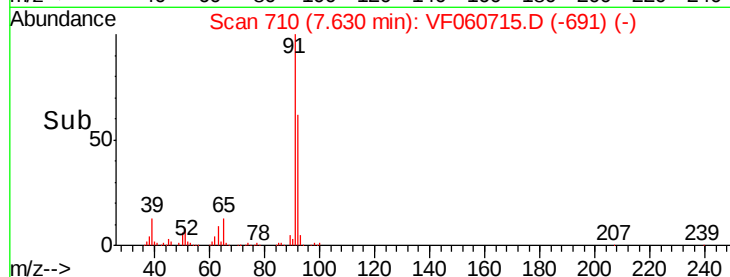
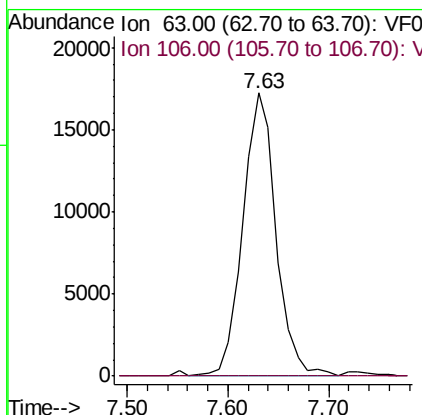
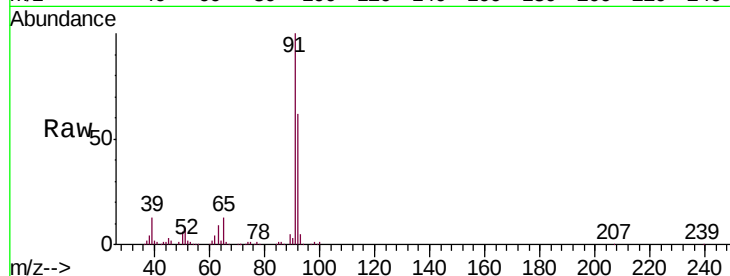




#58
2-Chloroethyl Vinyl ether
Concen: 196.850 ug/l
RT: 7.63 min Scan# 710
Delta R.T. -0.01 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

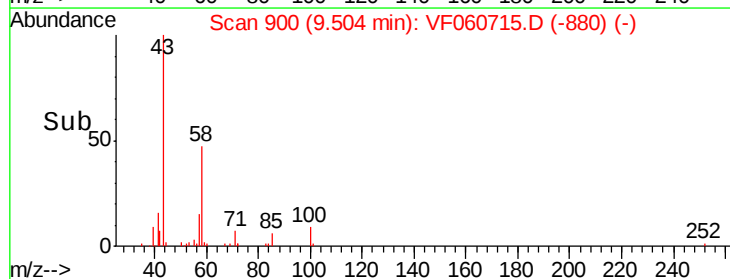
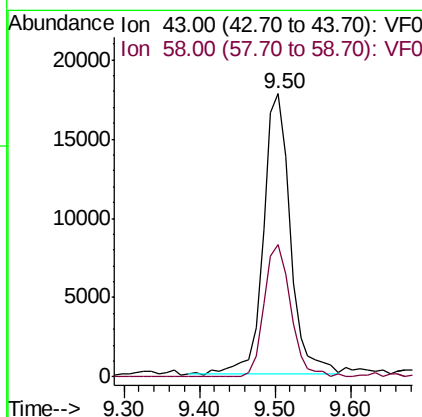
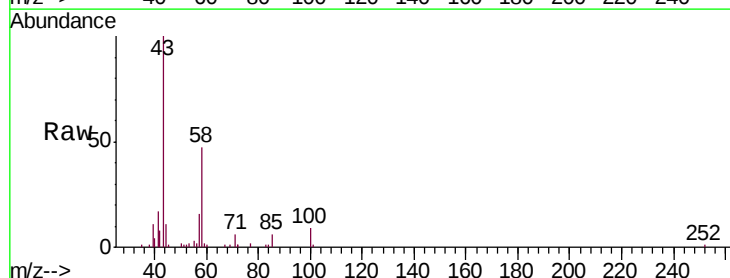
Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILDL

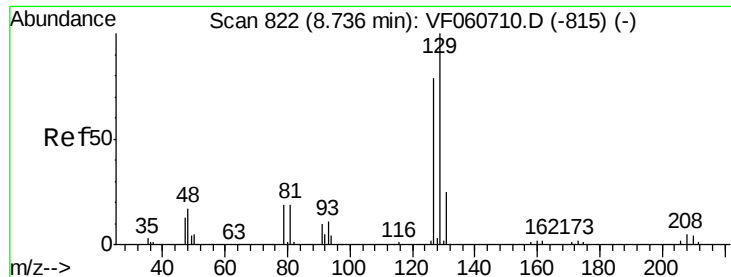
Tgt Ion: 63 Resp: 39472
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: 38.693 ug/l
RT: 9.50 min Scan# 900
Delta R.T. -0.00 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Tgt Ion: 43 Resp: 43901
Ion Ratio Lower Upper
43 100
58 46.8 24.9 74.7





#60

Dibromochloromethane

Concen: 14.535 ug/l

RT: 8.73 min Scan# 821

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

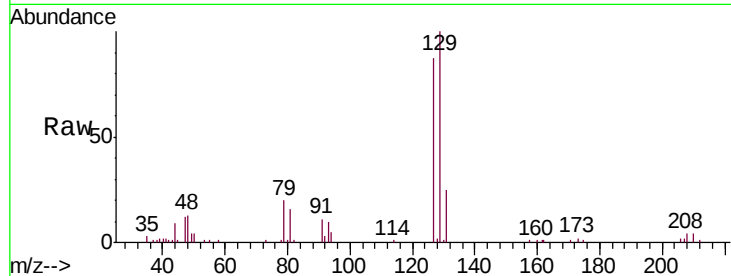
PT-VOA-SOILD

Tgt Ion:129 Resp: 40037

Ion Ratio Lower Upper

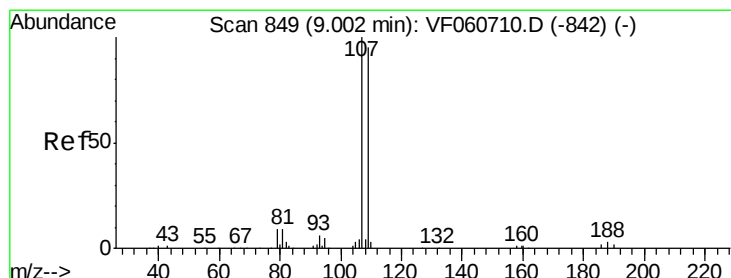
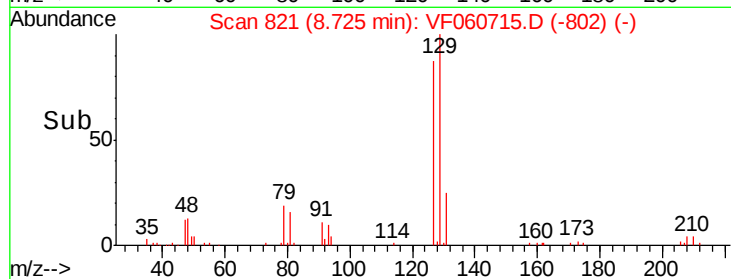
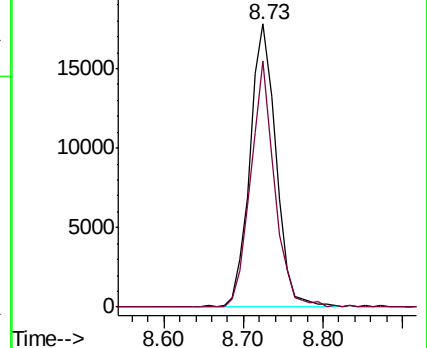
129 100

127 86.9 39.7 119.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 31.364 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF060715.D

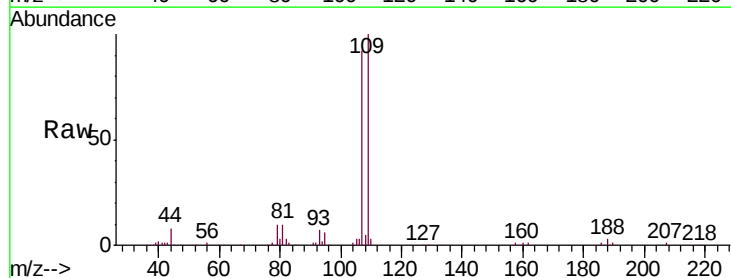
Acq: 13 Nov 2018 16:44

Tgt Ion:107 Resp: 63753

Ion Ratio Lower Upper

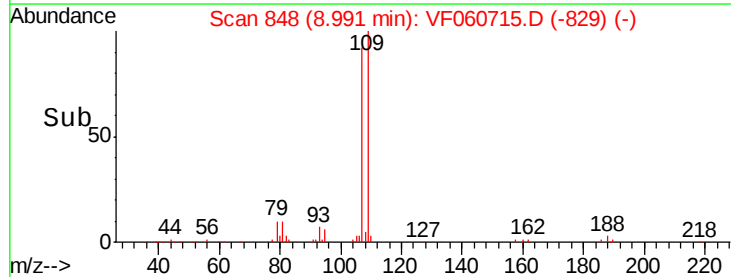
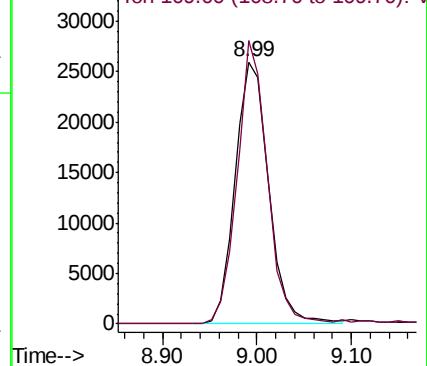
107 100

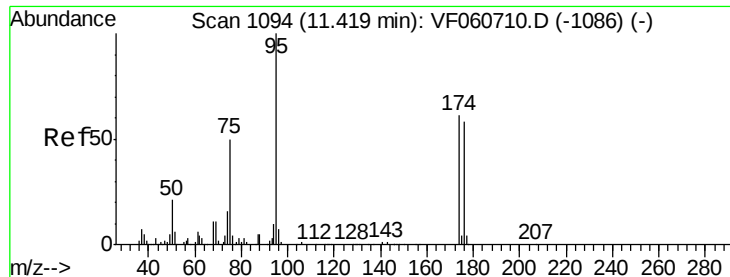
109 108.1 75.9 113.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

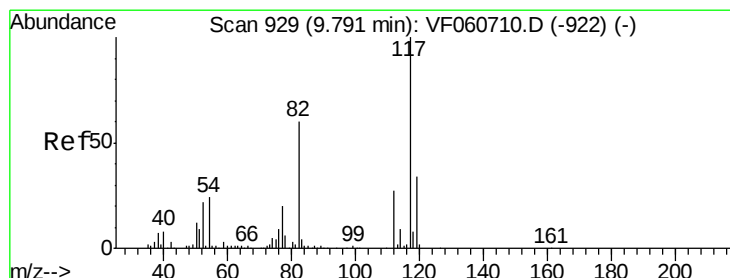
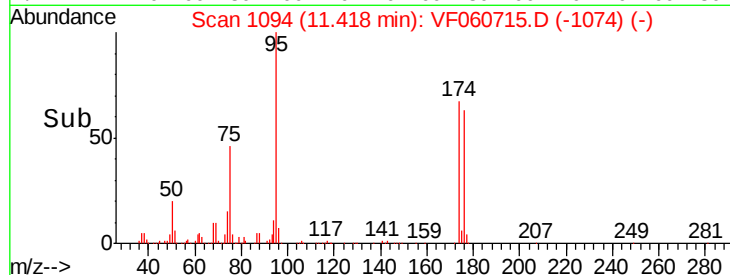
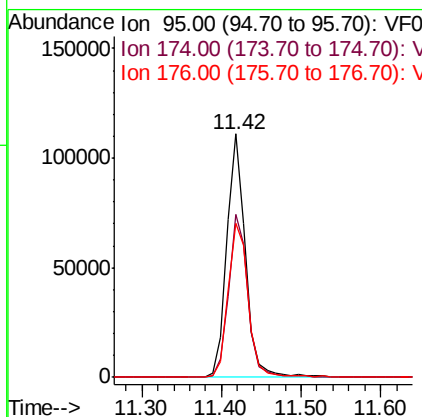
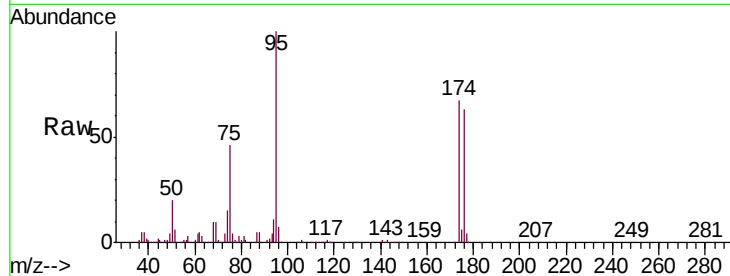




#62
4-Bromofluorobenzene
Concen: 53.341 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

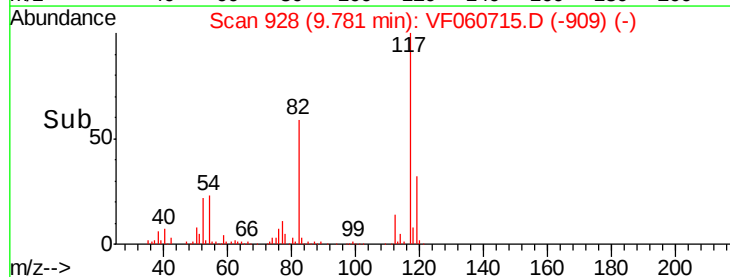
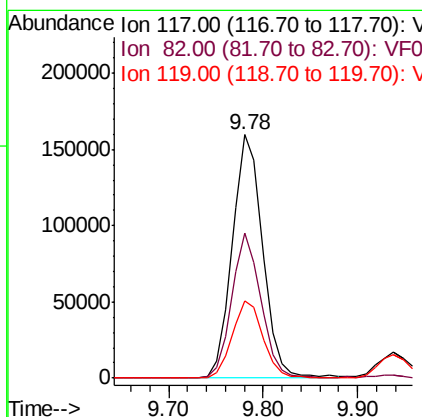
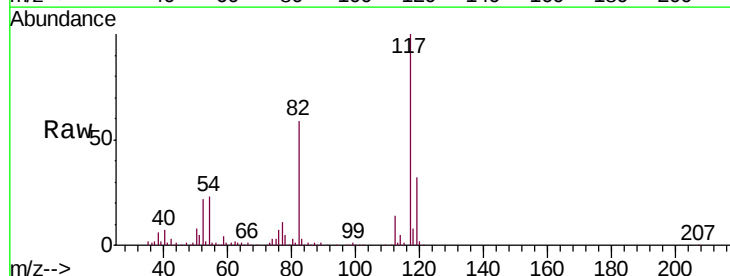
Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILDL

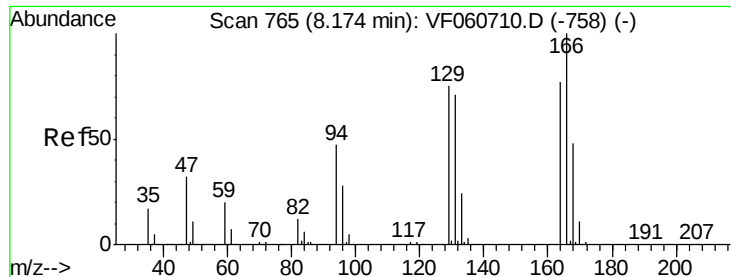
Tgt Ion: 95 Resp: 184333
Ion Ratio Lower Upper
95 100
174 66.9 0.0 121.6
176 63.4 0.0 115.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Tgt Ion: 117 Resp: 355022
Ion Ratio Lower Upper
117 100
82 59.5 47.9 71.9
119 31.7 26.8 40.2





#64

Tetrachloroethene

Concen: 19.437 ug/l

RT: 8.16 min Scan# 764

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILDL

Tgt Ion:164 Resp: 54646

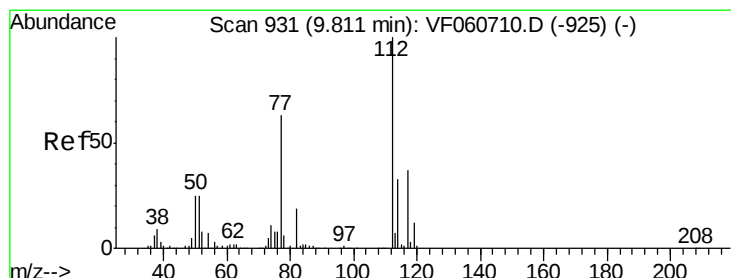
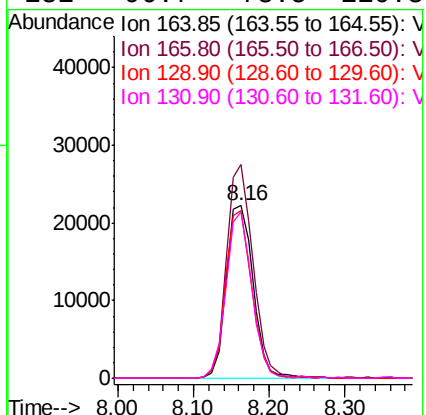
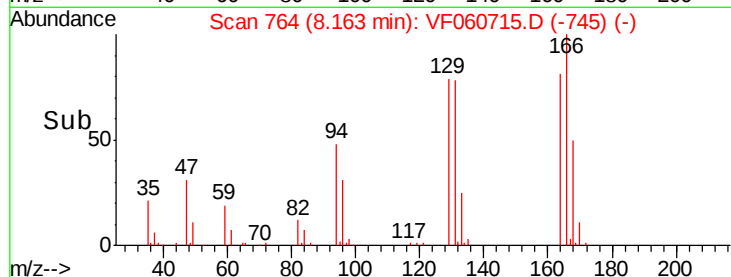
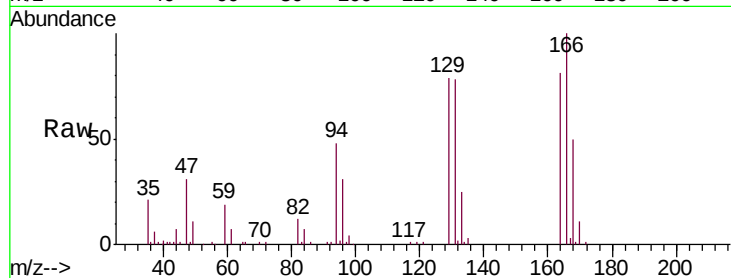
Ion Ratio Lower Upper

164 100

166 123.9 103.5 155.3

129 97.3 77.4 116.2

131 96.7 73.5 110.3



#65

Chlorobenzene

Concen: 37.116 ug/l

RT: 9.81 min Scan# 931

Delta R.T. -0.00 min

Lab File: VF060715.D

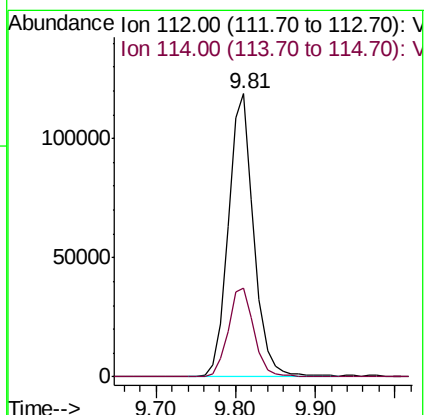
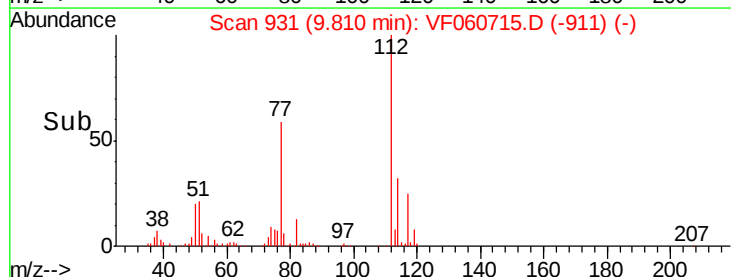
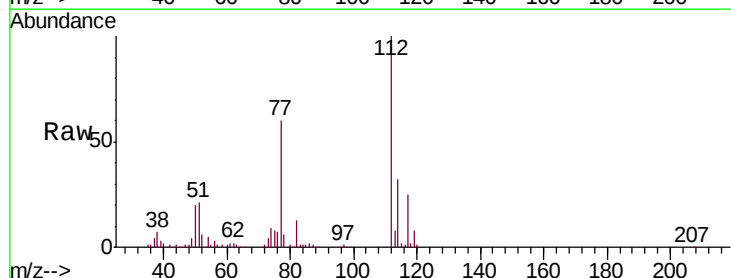
Acq: 13 Nov 2018 16:44

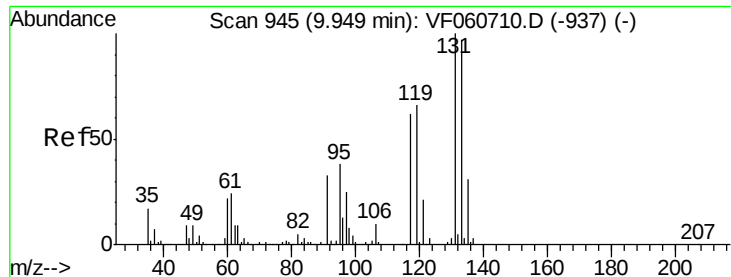
Tgt Ion:112 Resp: 265901

Ion Ratio Lower Upper

112 100

114 31.5 26.1 39.1





#66

1,1,1,2-Tetrachloroethane

Concen: 16.700 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.01 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILDL

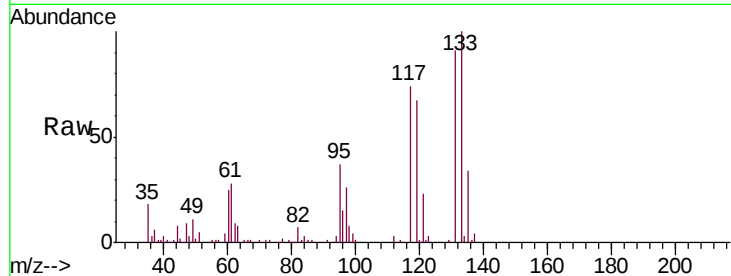
Tgt Ion:131 Resp: 52183

Ion Ratio Lower Upper

131 100

133 110.3 48.3 144.8

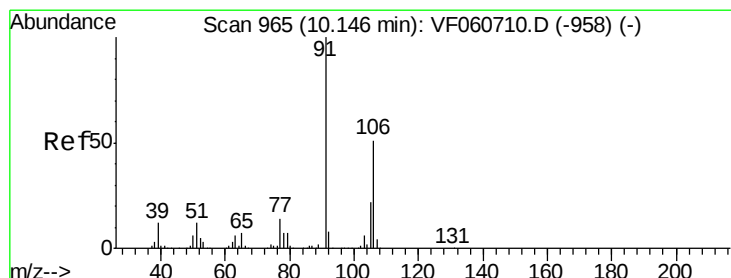
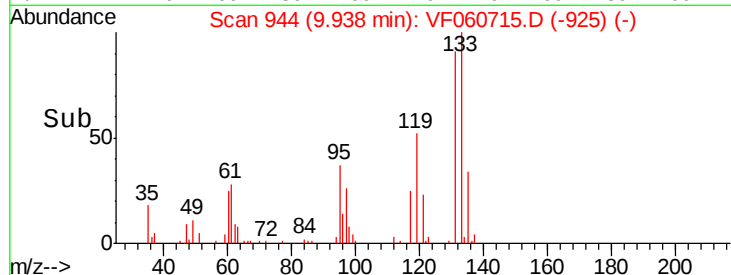
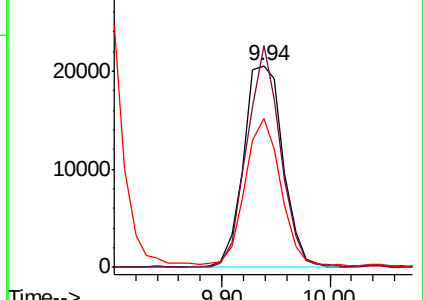
119 73.8 33.2 99.6



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



#68

m/p-Xylenes

Concen: 38.180 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF060715.D

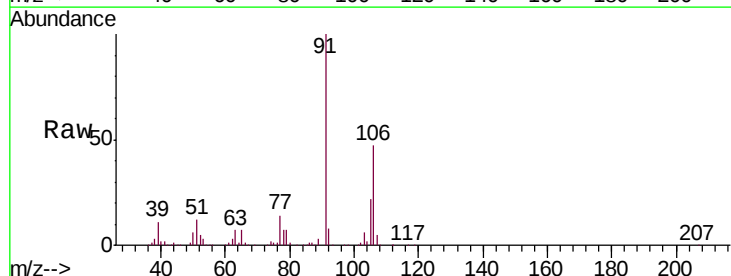
Acq: 13 Nov 2018 16:44

Tgt Ion:106 Resp: 184255

Ion Ratio Lower Upper

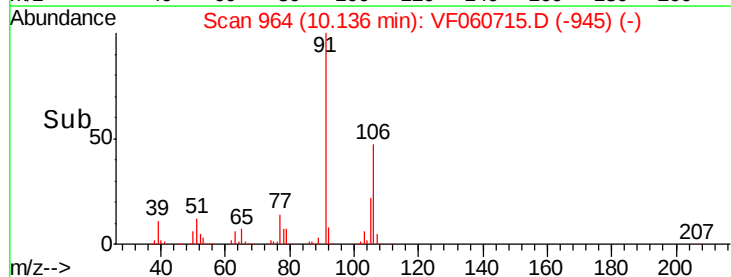
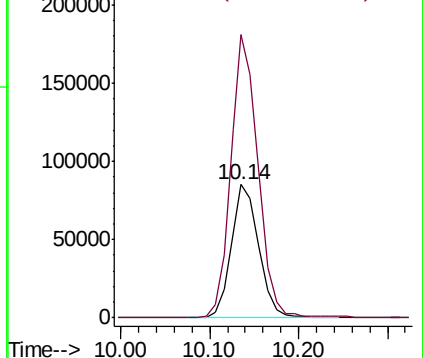
106 100

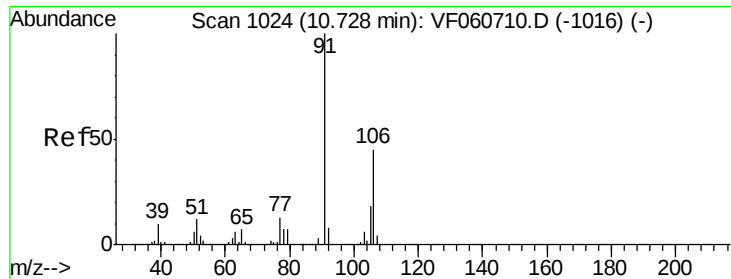
91 212.8 158.2 237.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

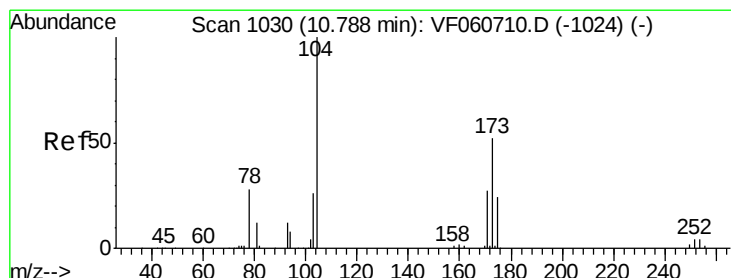
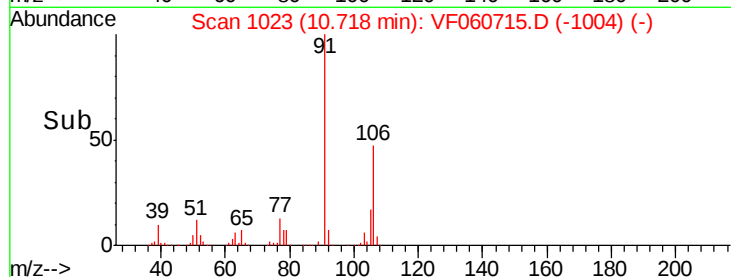
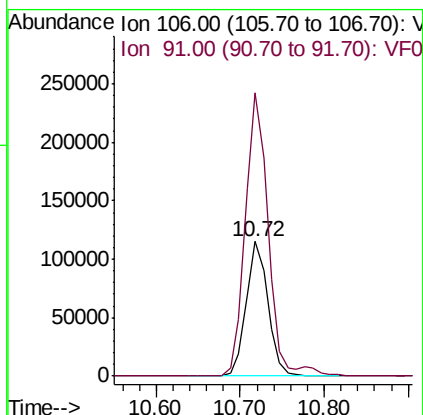
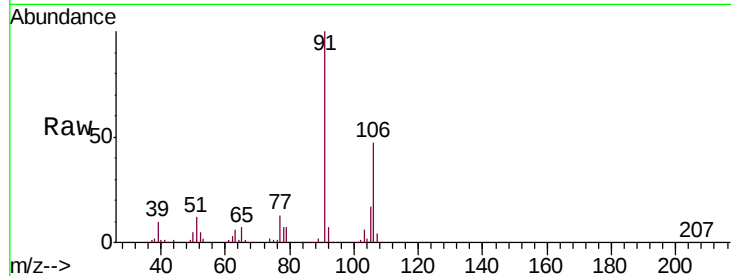




#69
o-Xylene
Concen: 38.693 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

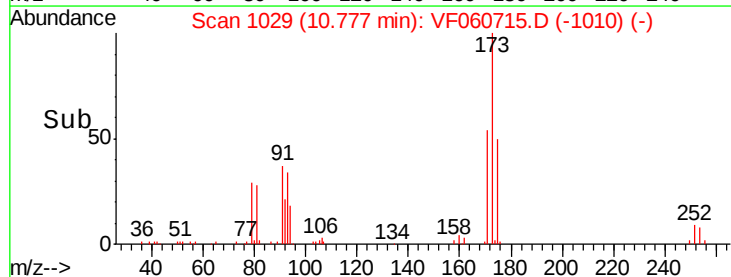
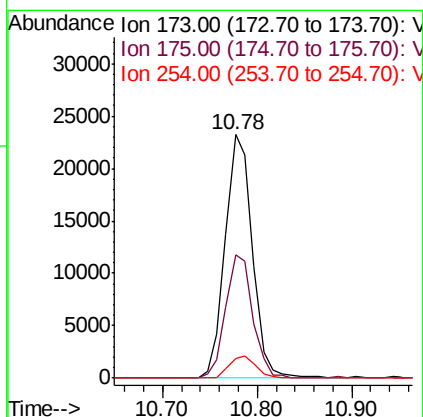
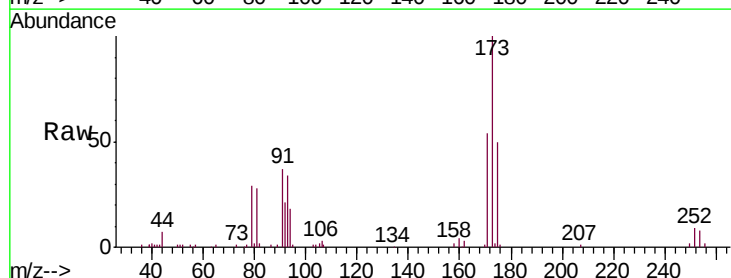
Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILD

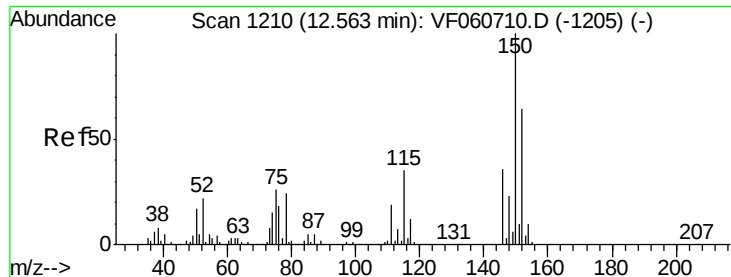
Tgt Ion:106 Resp: 209935
Ion Ratio Lower Upper
106 100
91 210.6 110.3 330.9



#71
Bromoform
Concen: 32.973 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Tgt Ion:173 Resp: 46331
Ion Ratio Lower Upper
173 100
175 50.7 23.4 70.0
254 7.9 5.8 8.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

Instrument :

MSVOA_F

ClientSampleId :

PT-VOA-SOILD

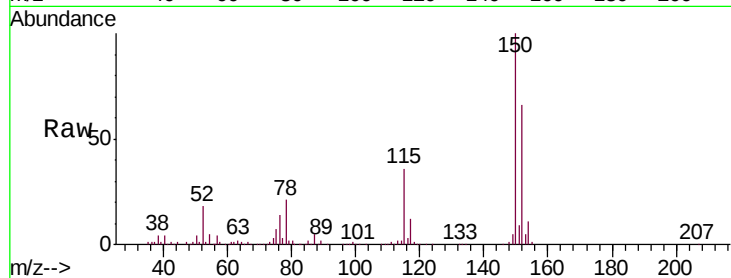
Tgt Ion:152 Resp: 202508

Ion Ratio Lower Upper

152 100

115 55.3 27.9 83.7

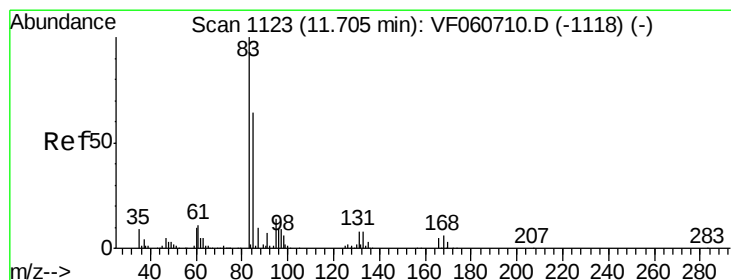
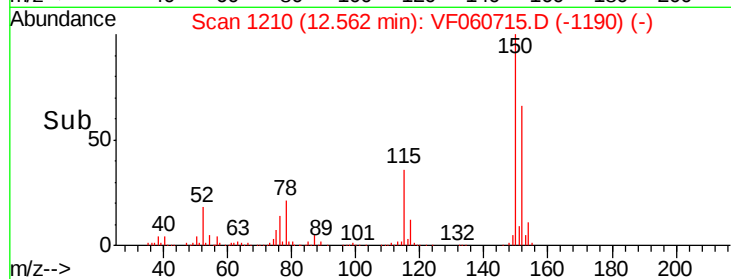
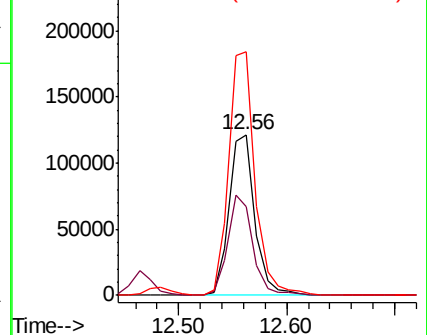
150 151.5 0.0 316.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: 6.854 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF060715.D

Acq: 13 Nov 2018 16:44

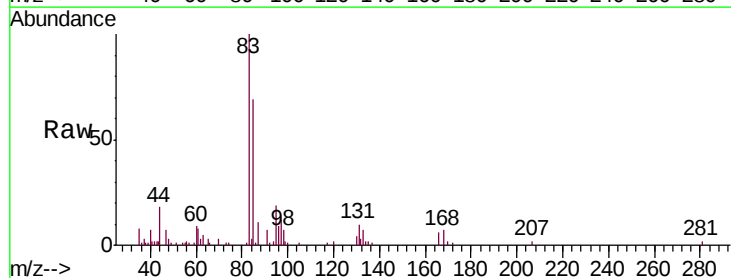
Tgt Ion: 83 Resp: 18470

Ion Ratio Lower Upper

83 100

131 9.5 4.2 12.4

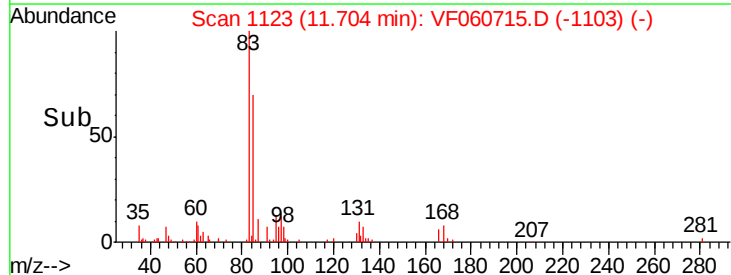
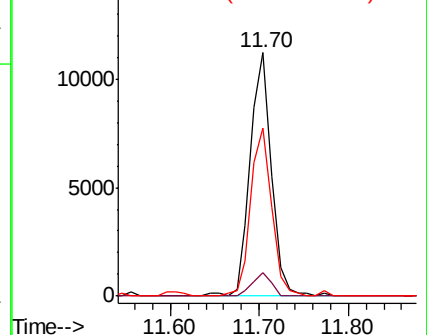
85 68.9 32.0 96.2

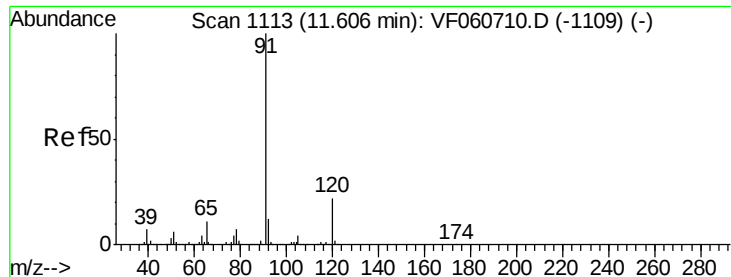


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

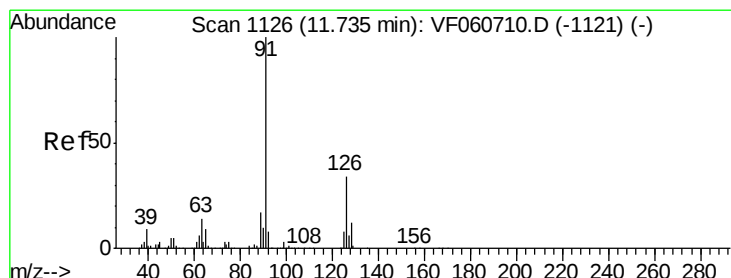
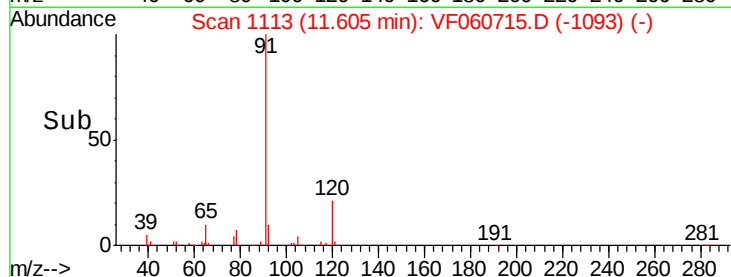
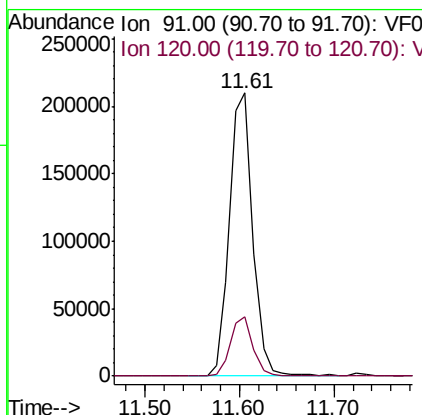
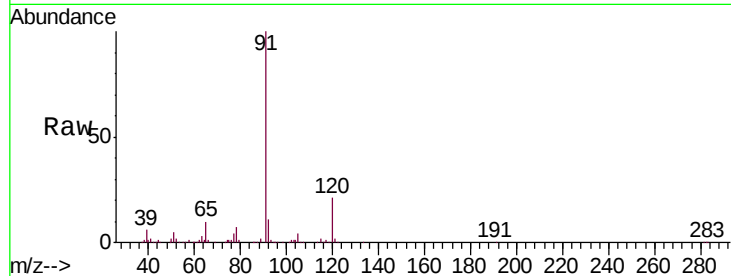




#78
n-propylbenzene
Concen: 18.887 ug/l
RT: 11.61 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

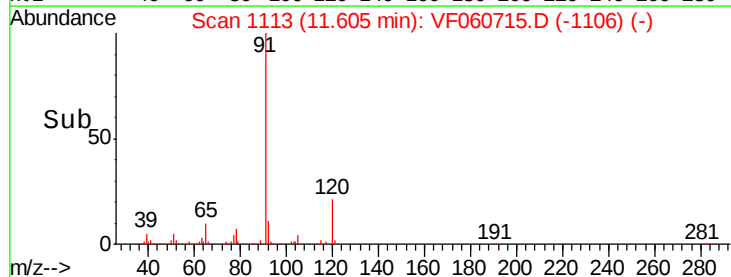
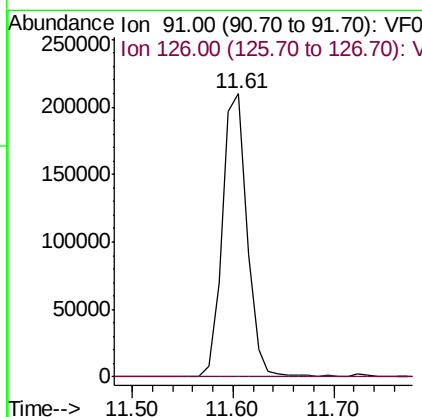
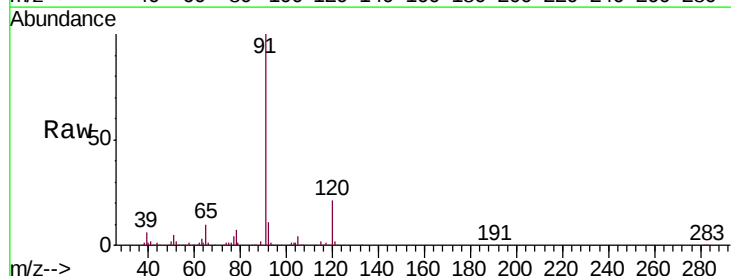
Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILDL

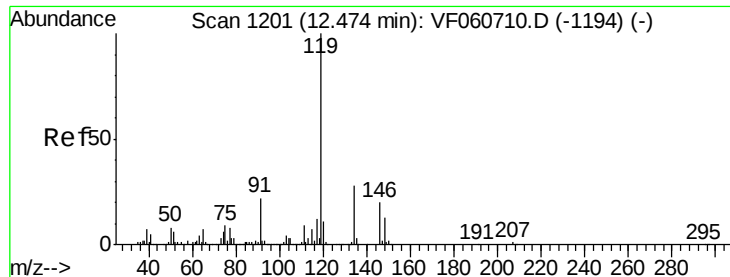
Tgt Ion: 91 Resp: 359062
Ion Ratio Lower Upper
91 100
120 21.0 11.2 33.5



#79
2-Chlorotoluene
Concen: 32.479 ug/l
RT: 11.61 min Scan# 1113
Delta R.T. -0.13 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Tgt Ion: 91 Resp: 358868
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#

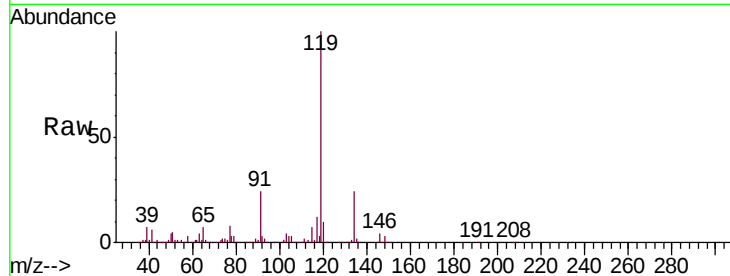




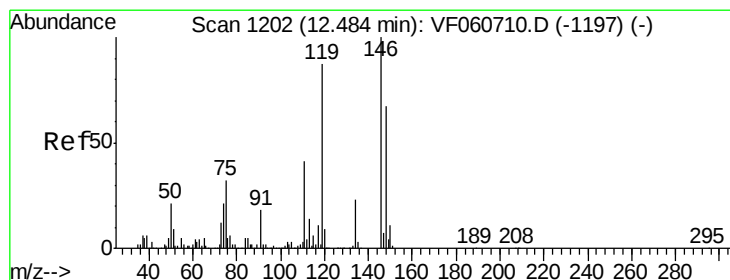
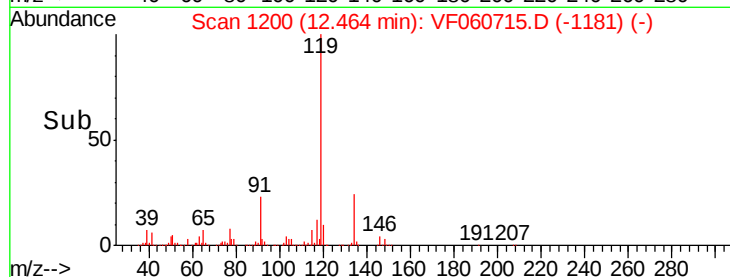
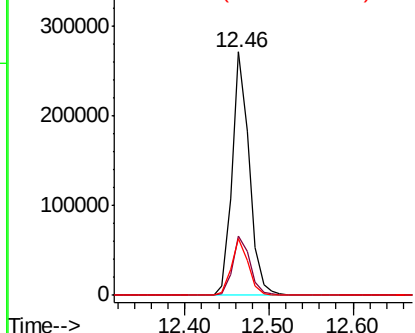
#86
p-Isopropyltoluene
Concen: 24.602 ug/l
RT: 12.46 min Scan# 1200
Delta R.T. -0.01 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Instrument :
MSVOA_F
ClientSampleId :
PT-VOA-SOILDL

Tgt Ion:119 Resp: 382983
Ion Ratio Lower Upper
119 100
134 24.2 13.9 41.7
91 23.6 11.3 33.9

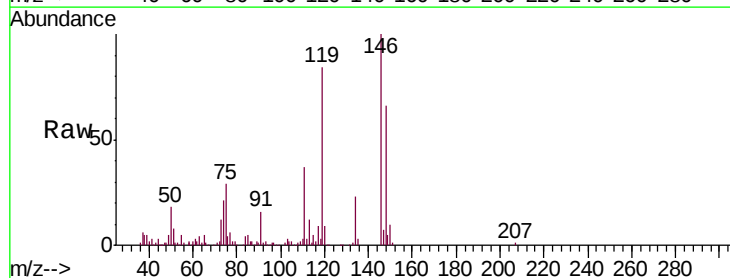


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

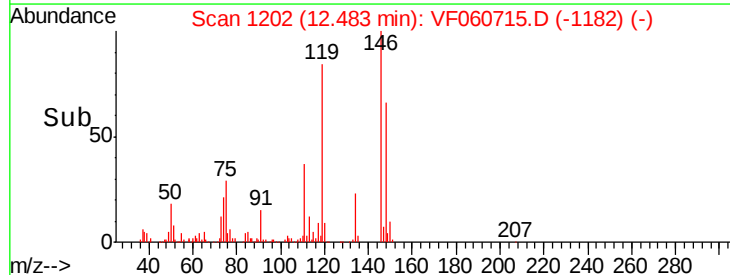
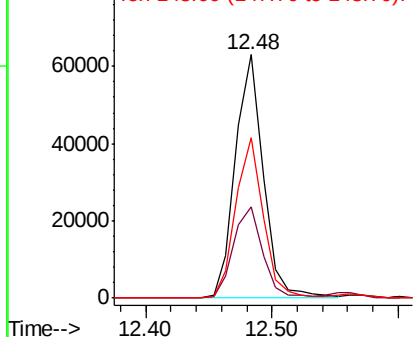


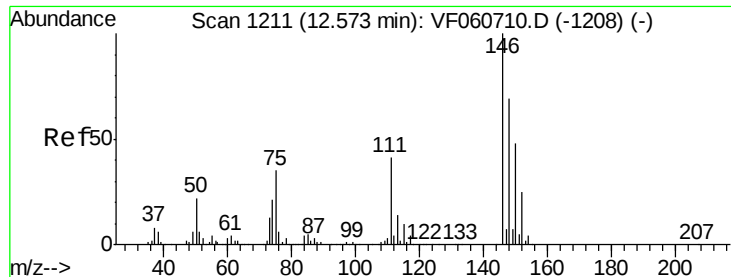
#87
1,3-Dichlorobenzene
Concen: 14.328 ug/l
RT: 12.48 min Scan# 1202
Delta R.T. -0.00 min
Lab File: VF060715.D
Acq: 13 Nov 2018 16:44

Tgt Ion:146 Resp: 96747
Ion Ratio Lower Upper
146 100
111 37.4 20.3 60.8
148 66.0 33.3 99.9



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

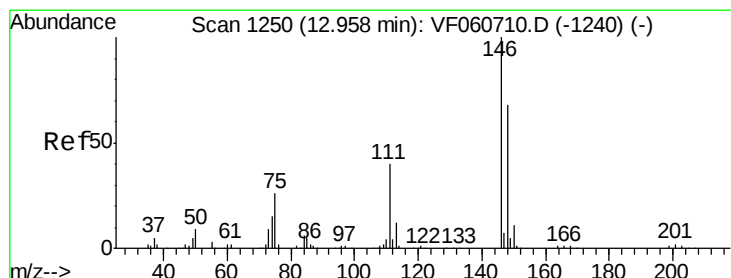
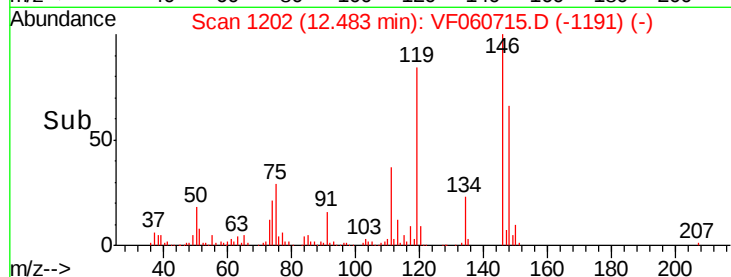
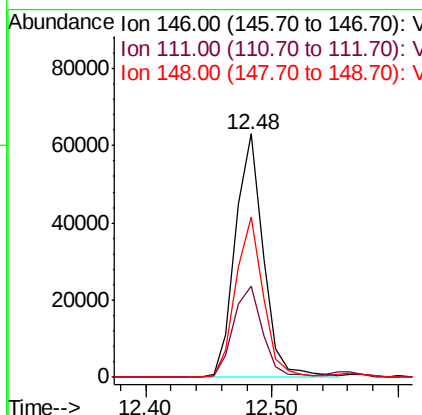
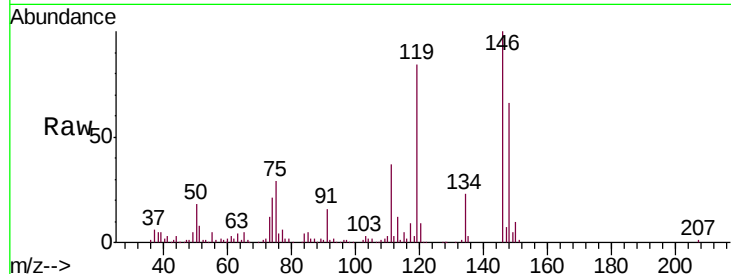




#88
 1,4-Dichlorobenzene
 Concen: 14.908 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.09 min
 Lab File: VF060715.D
 Acq: 13 Nov 2018 16:44

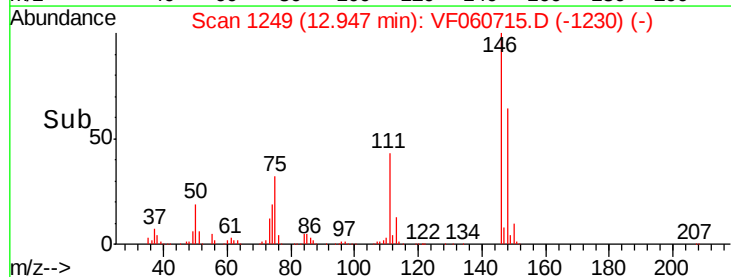
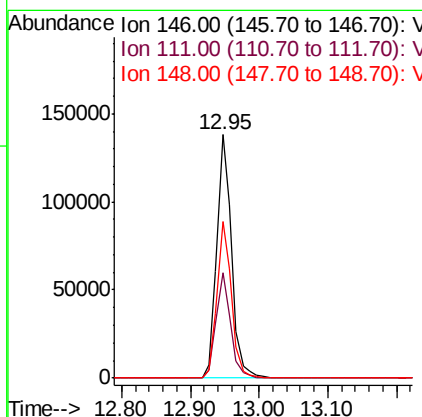
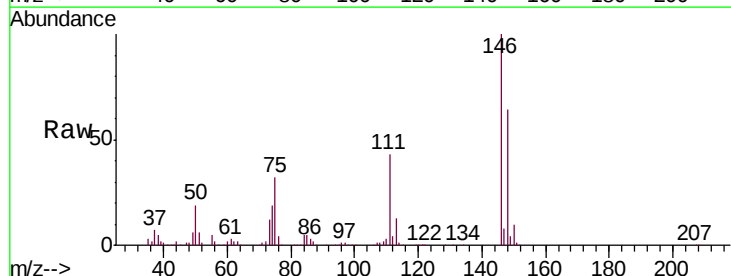
Instrument :
 MSVOA_F
 ClientSampleId :
 PT-VOA-SOILDL

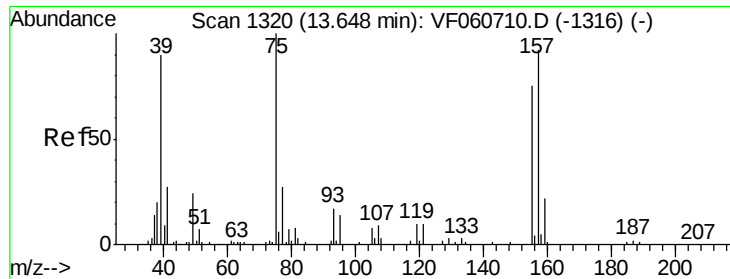
Tgt Ion:146 Resp: 96747
 Ion Ratio Lower Upper
 146 100
 111 37.4 20.6 61.9
 148 66.0 34.7 104.1



#91
 1,2-Dichlorobenzene
 Concen: 32.343 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VF060715.D
 Acq: 13 Nov 2018 16:44

Tgt Ion:146 Resp: 205626
 Ion Ratio Lower Upper
 146 100
 111 43.2 20.3 60.8
 148 64.4 34.1 102.3

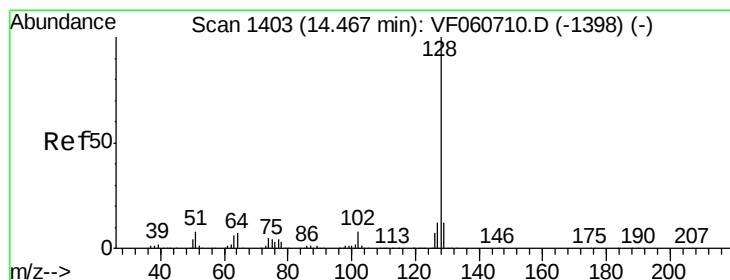
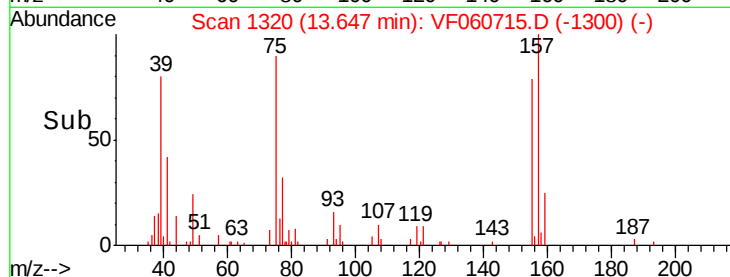
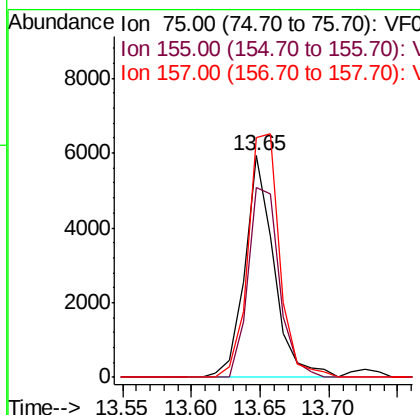
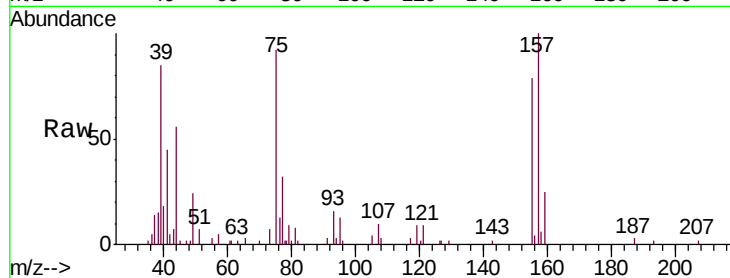




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.358 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF060715.D
 Acq: 13 Nov 2018 16:44

Instrument :
 MSVOA_F
 ClientSampleId :
 PT-VOA-SOILDL

Tgt Ion: 75 Resp: 8792
 Ion Ratio Lower Upper
 75 100
 155 86.1 37.4 112.2
 157 108.6 46.0 138.0



#95
 Naphthalene
 Concen: 23.713 ug/l
 RT: 14.47 min Scan# 1403
 Delta R.T. -0.00 min
 Lab File: VF060715.D
 Acq: 13 Nov 2018 16:44

Tgt Ion: 128 Resp: 197718
 Ion Ratio Lower Upper
 128 100
 127 12.7 9.8 14.6
 129 10.3 9.3 13.9

