

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072018\
 Data File : VF059601.D
 Acq On : 21 Jul 2018 00:38
 Operator : VA/AP
 Sample : J4057-01RE
 Misc : 5.04g/5mL/MSVOA F/SOIL
 ALS Vial : 96 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 21 03:58:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	159529	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	226254	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	167533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	68769	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	101815	41.04	ug/l	0.00
Spiked Amount			Recovery	=	82.08%	
35) Dibromofluoromethane	4.30	113	94100	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
50) Toluene-d8	7.71	98	147222	29.83	ug/l	-0.02
Spiked Amount			Recovery	=	59.66%	
62) 4-Bromofluorobenzene	11.51	95	72919	28.16	ug/l	0.00
Spiked Amount			Recovery	=	56.32%	

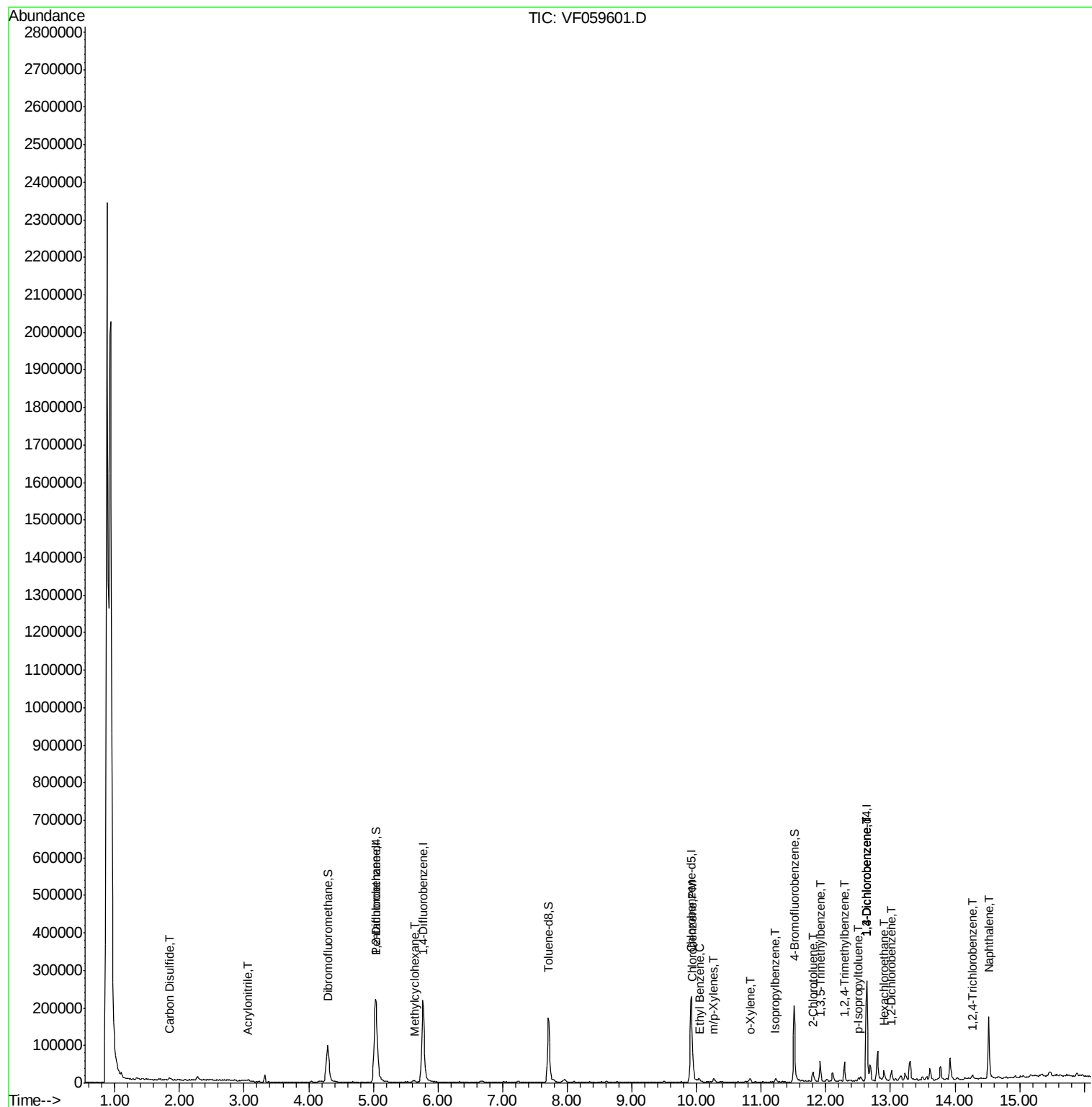
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.65	59	370	Below Cal	#	74
13) Acrolein	2.18	56	246	Below Cal		93
15) Acrylonitrile	3.05	53	639	3.070	ug/l #	13
16) Acetone	2.33	43	2670	Below Cal		96
17) Carbon Disulfide	1.84	76	9015	2.950	ug/l	95
18) Methyl Acetate	2.44	43	1086	Below Cal		94
20) Methylene Chloride	2.40	84	127	Below Cal	#	3
29) Tetrahydrofuran	4.29	42	289	Below Cal	#	38
37) Ethyl Acetate	4.31	43	468	Below Cal	#	41
39) Methylcyclohexane	5.64	83	2340	1.362	ug/l	88
49) 1,4-Dioxane	7.04	88	62	Below Cal	#	1
65) Chlorobenzene	9.94	112	6205	1.975	ug/l #	67
67) Ethyl Benzene	10.04	91	6676	1.194	ug/l	97
68) m/p-Xylenes	10.27	106	2429	1.231	ug/l	82
69) o-Xylene	10.84	106	2576	1.226	ug/l	80
73) Isopropylbenzene	11.23	105	6189	1.426	ug/l	94
79) 2-Chlorotoluene	11.80	91	3093	1.009	ug/l #	62
80) 1,3,5-Trimethylbenzene	11.92	105	28511	7.841	ug/l	94
84) 1,2,4-Trimethylbenzene	12.29	105	27507	7.353	ug/l	99
86) p-Isopropyltoluene	12.51	119	4680	1.212	ug/l	96
87) 1,3-Dichlorobenzene	12.64	146	5106	2.447	ug/l	84
88) 1,4-Dichlorobenzene	12.64	146	5106	2.483	ug/l	80
90) Hexachloroethane	12.90	117	1281	1.460	ug/l #	17
91) 1,2-Dichlorobenzene	13.02	146	9410	4.715	ug/l	94
93) 1,2,4-Trichlorobenzene	14.27	180	2571	2.120	ug/l	78
95) Naphthalene	14.53	128	125811	49.941	ug/l	99

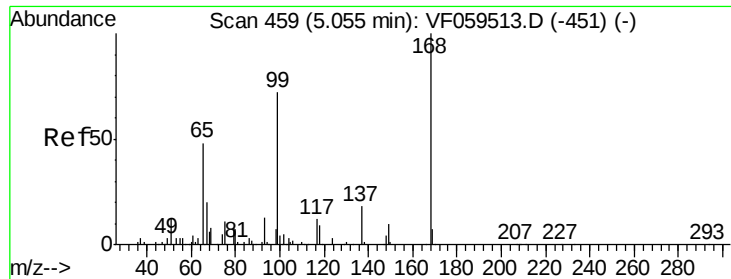
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 21 03:58:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF059601.D

Acq: 21 Jul 2018 00:38

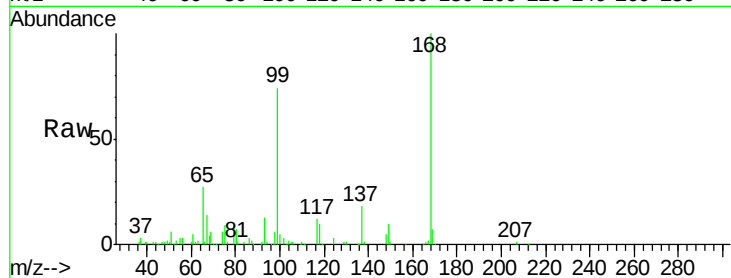
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 159529

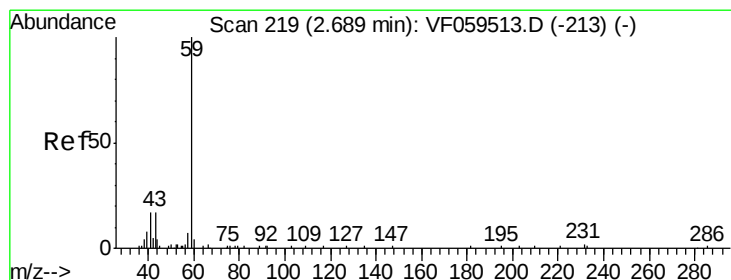
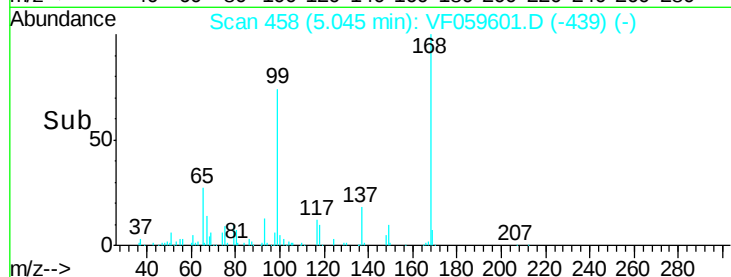
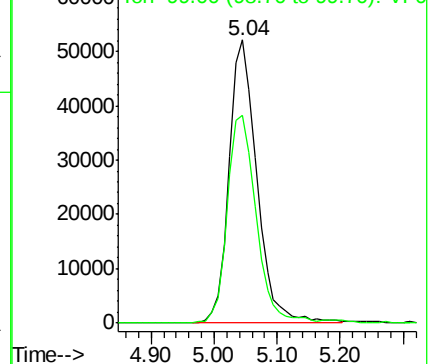
Ion Ratio Lower Upper

168 100

99 73.6 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.65 min Scan# 215

Delta R.T. -0.04 min

Lab File: VF059601.D

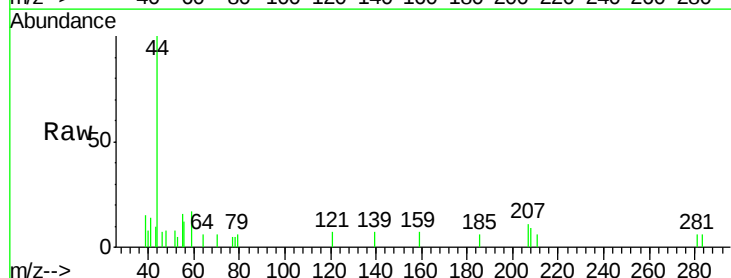
Acq: 21 Jul 2018 00:38

Tgt Ion: 59 Resp: 370

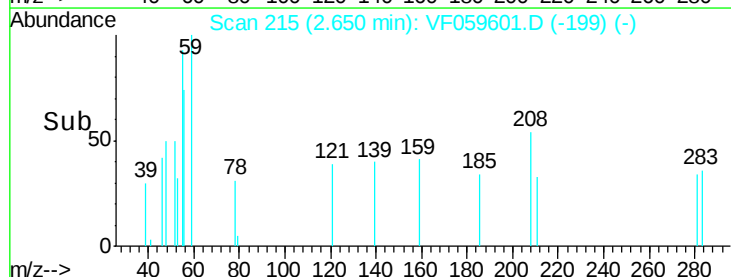
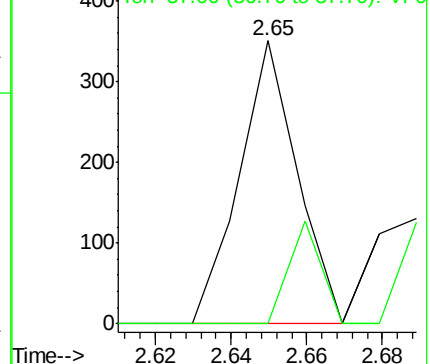
Ion Ratio Lower Upper

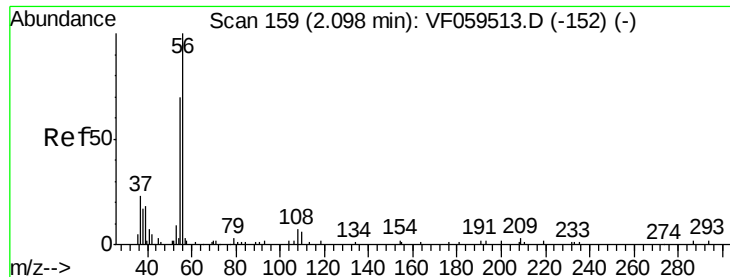
59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.18 min Scan# 167

Delta R.T. 0.08 min

Lab File: VF059601.D

Acq: 21 Jul 2018 00:38

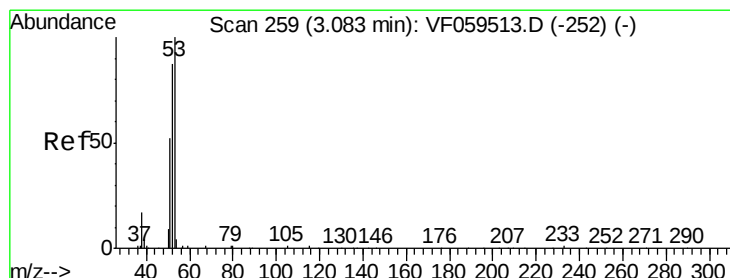
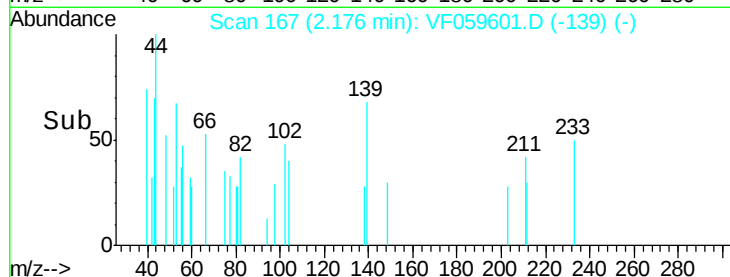
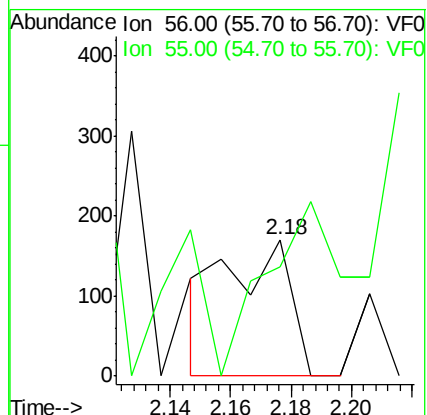
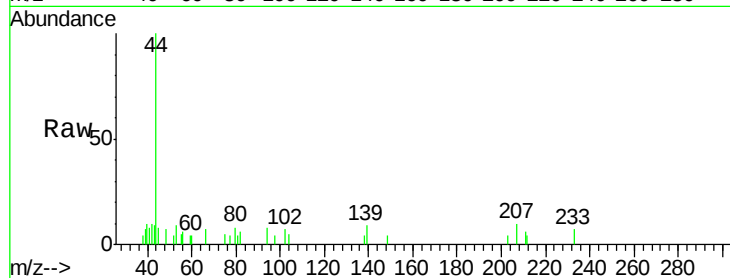
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 246

Ion Ratio Lower Upper

56 100

55 80.0 59.4 89.2



#15

Acrylonitrile

Concen: 3.070 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.03 min

Lab File: VF059601.D

Acq: 21 Jul 2018 00:38

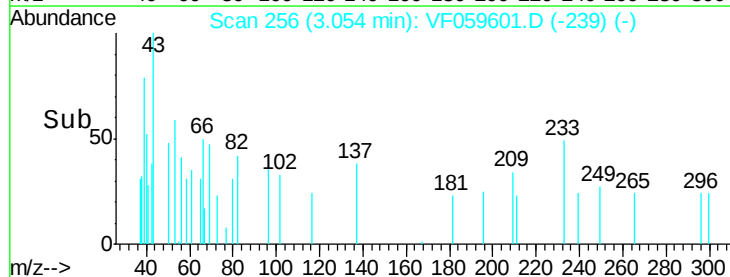
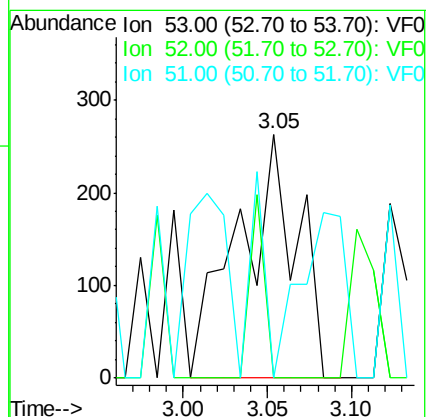
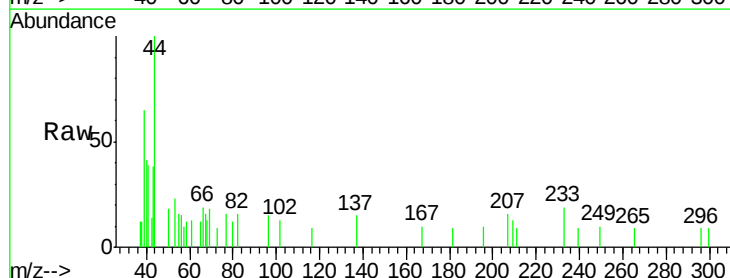
Tgt Ion: 53 Resp: 639

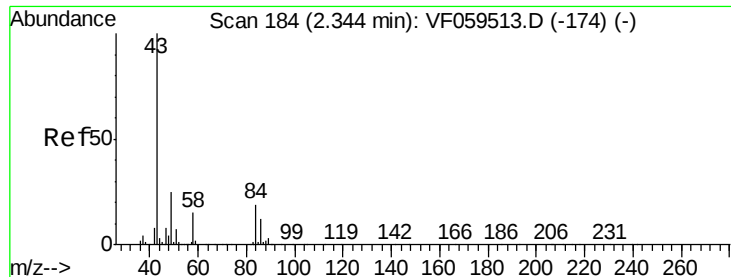
Ion Ratio Lower Upper

53 100

52 0.0 70.1 105.1#

51 0.0 42.5 63.7#

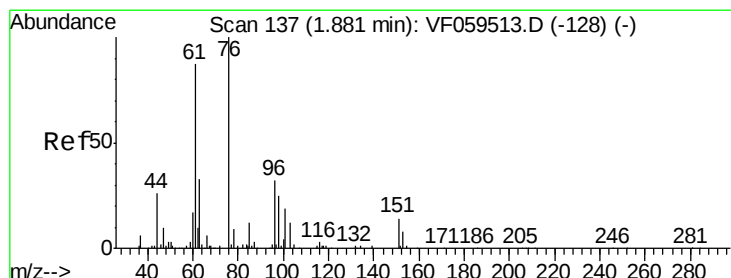
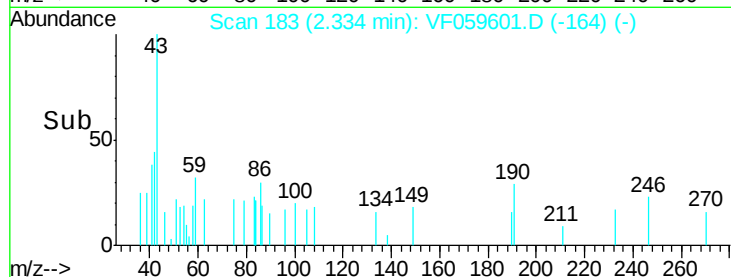
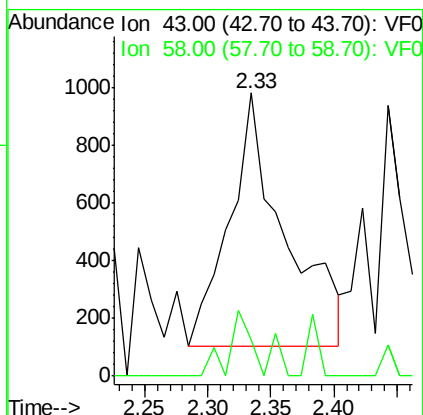
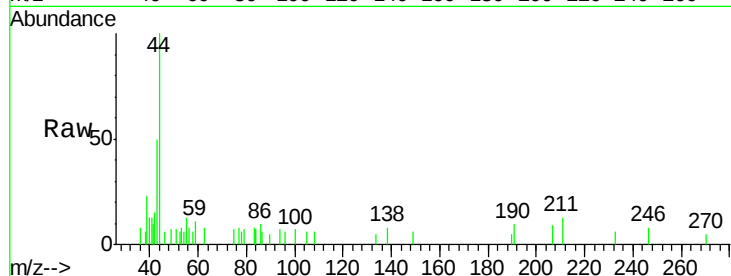




#16
Acetone
Concen: Below Cal
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

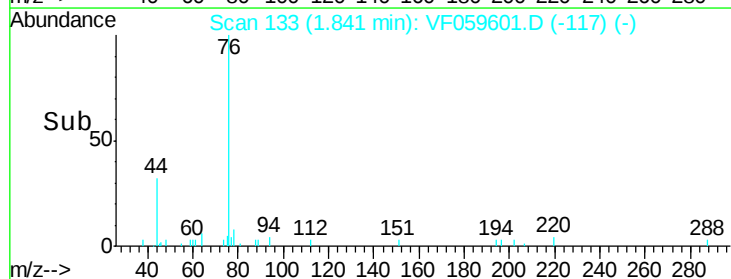
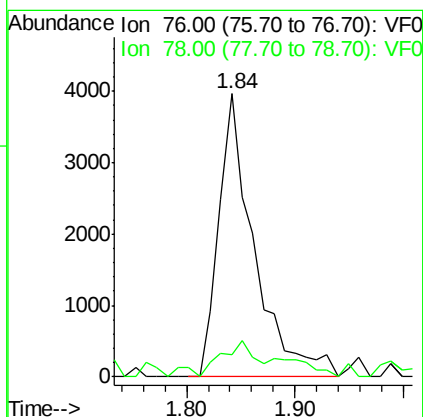
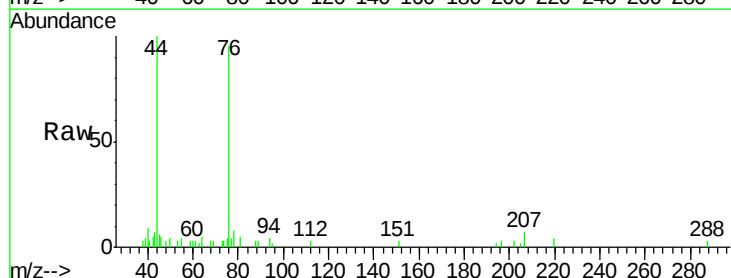
Instrument :
MSVOA_F
ClientSampleId :

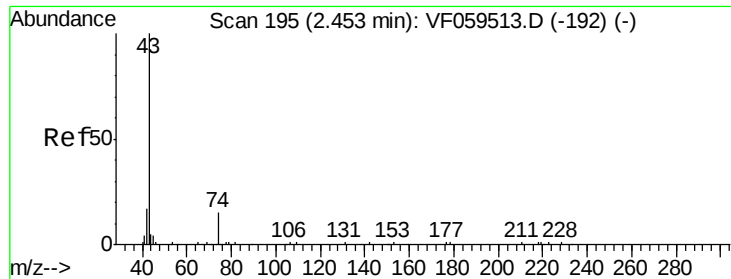
Tot Ion: 43 Resp: 2670
Ion Ratio Lower Upper
43 100
58 13.0 11.8 17.6



#17
Carbon Disulfide
Concen: 2.950 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.04 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion: 76 Resp: 9015
Ion Ratio Lower Upper
76 100
78 7.9 7.8 11.6

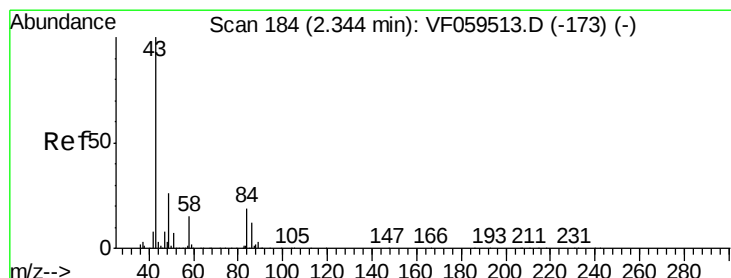
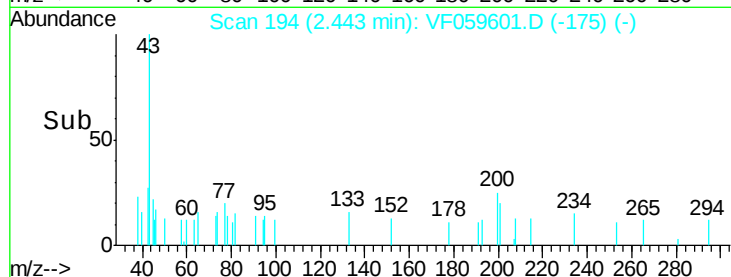
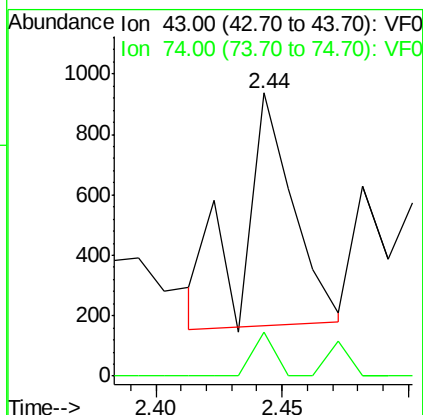
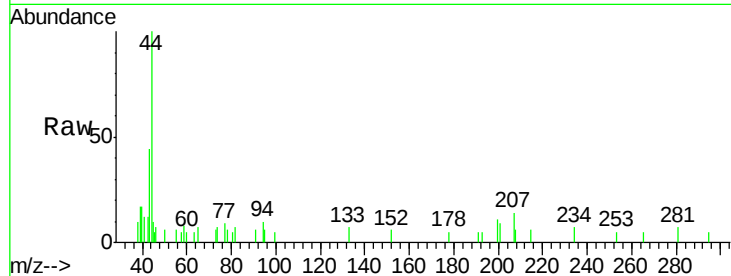




#18
Methyl Acetate
Concen: Below Cal
RT: 2.44 min Scan# 194
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

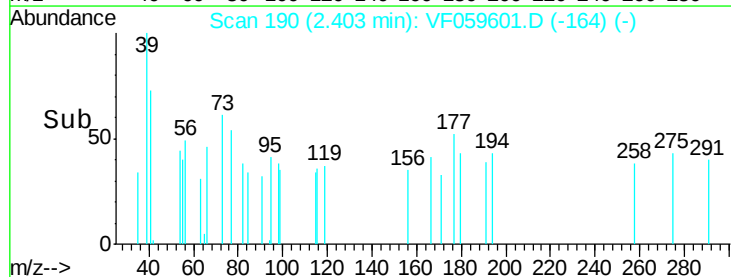
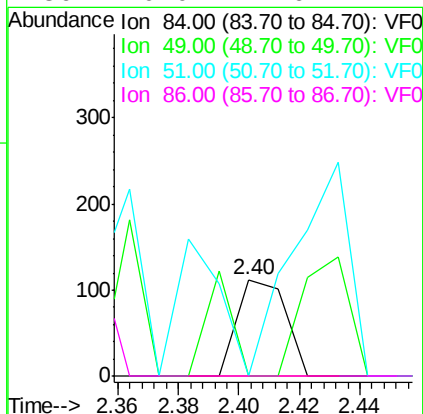
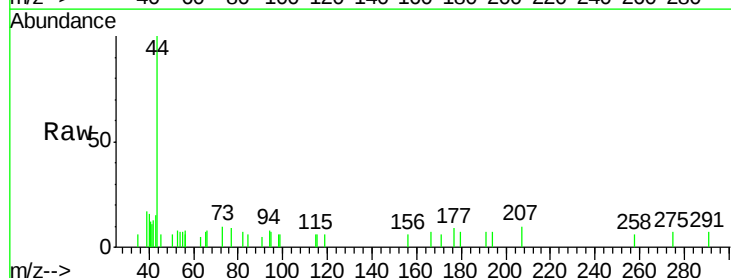
Instrument :
MSVOA_F
ClientSampled :

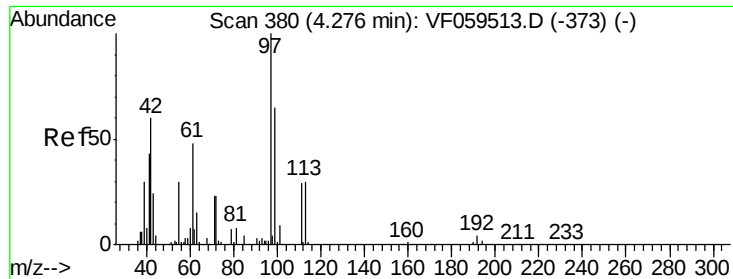
Tot Ion: 43 Resp: 1086
Ion Ratio Lower Upper
43 100
74 15.6 10.6 15.8



#20
Methylene Chloride
Concen: Below Cal
RT: 2.40 min Scan# 190
Delta R.T. 0.06 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion: 84 Resp: 127
Ion Ratio Lower Upper
84 100
49 0.0 109.4 164.2#
51 0.0 30.5 45.7#
86 0.0 47.6 71.4#

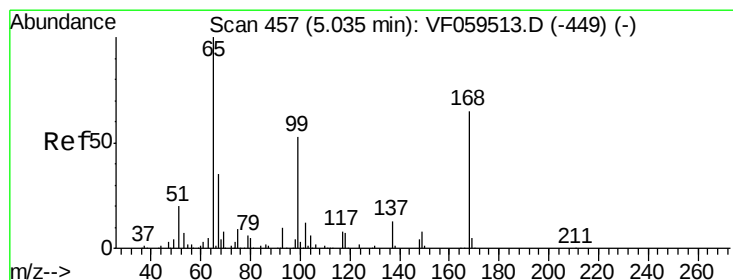
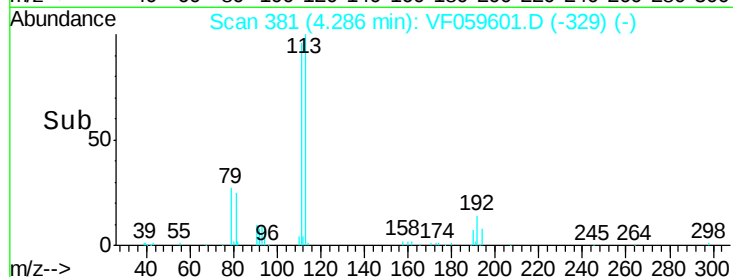
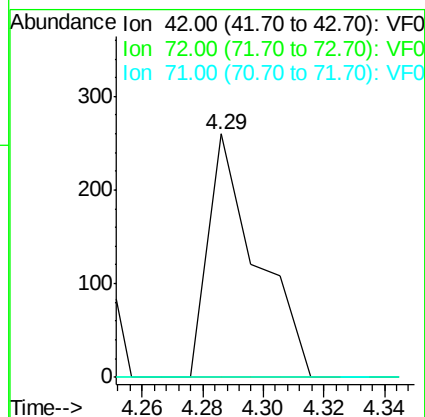
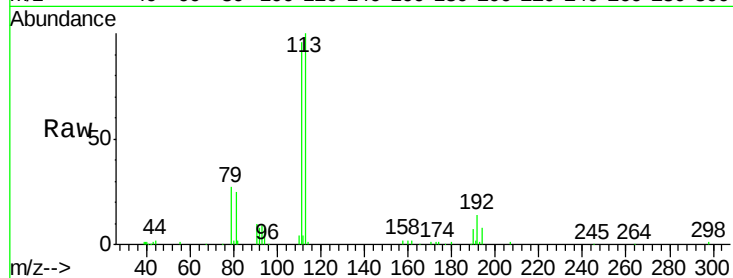




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

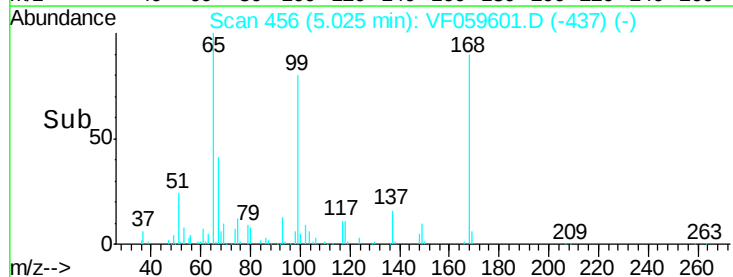
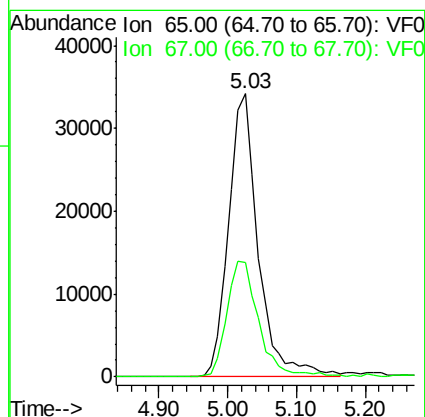
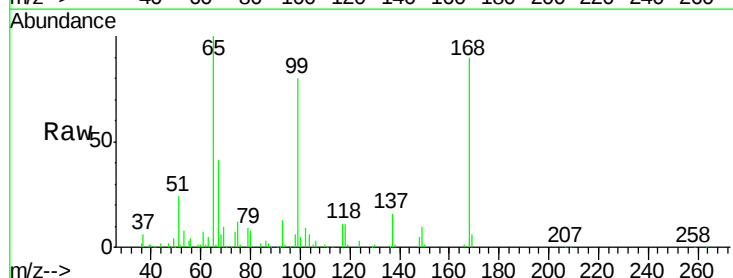
Instrument :
MSVOA_F
ClientSampleId :

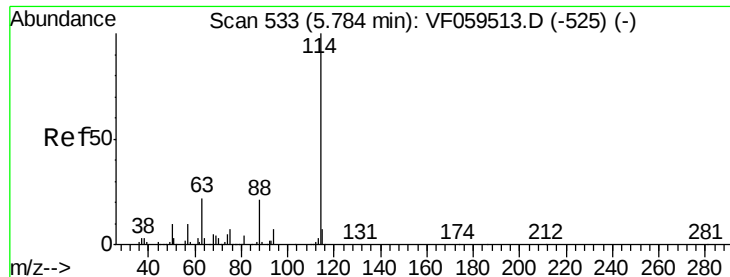
Tot Ion: 42 Resp: 289
Ion Ratio Lower Upper
42 100
72 0.0 28.7 43.1#
71 0.0 30.8 46.2#



#33
1,2-Dichloroethane-d4
Concen: 41.037 ug/l
RT: 5.03 min Scan# 456
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion: 65 Resp: 101815
Ion Ratio Lower Upper
65 100
67 40.6 0.0 91.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF059601.D

Acq: 21 Jul 2018 00:38

Instrument :

MSVOA_F

ClientSampled :

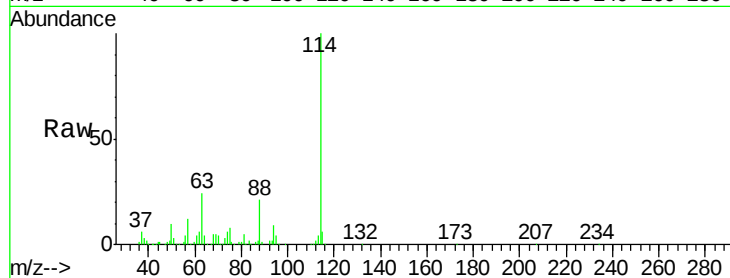
Tot Ion:114 Resp: 226254

Ion Ratio Lower Upper

114 100

63 24.3 0.0 44.8

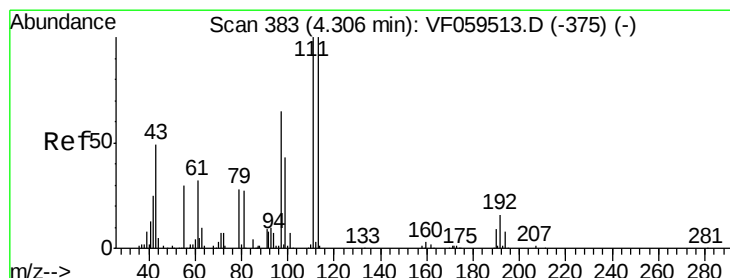
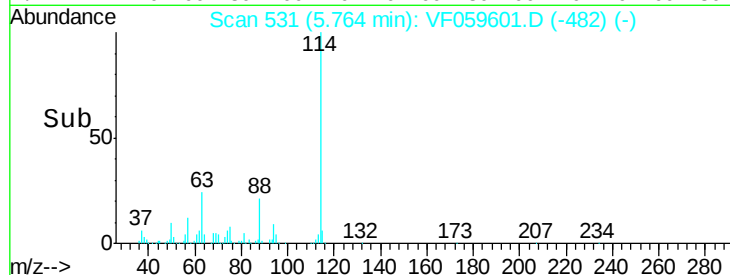
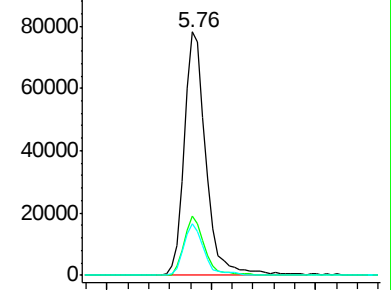
88 21.1 0.0 42.6



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: 48.022 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF059601.D

Acq: 21 Jul 2018 00:38

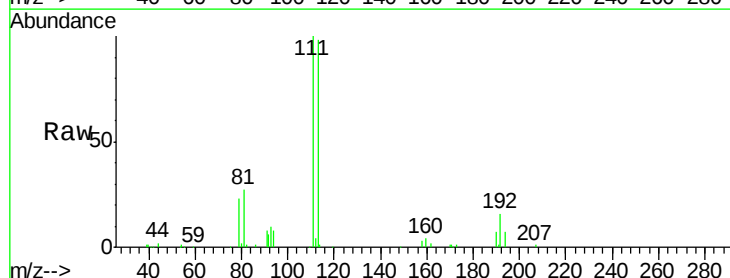
Tgt Ion:113 Resp: 94100

Ion Ratio Lower Upper

113 100

111 101.7 80.3 120.5

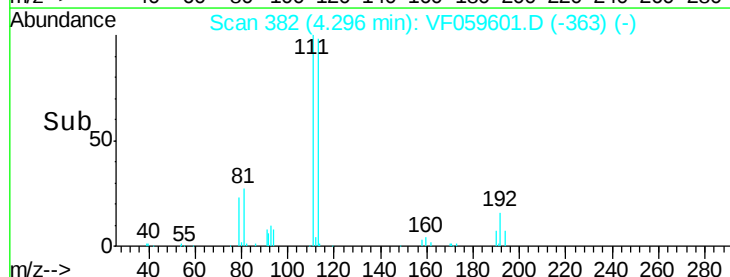
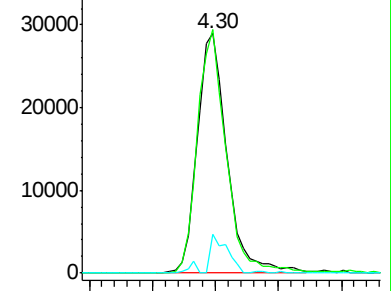
192 16.0 13.1 19.7

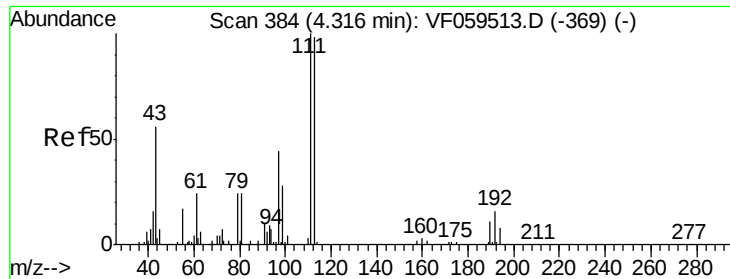


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

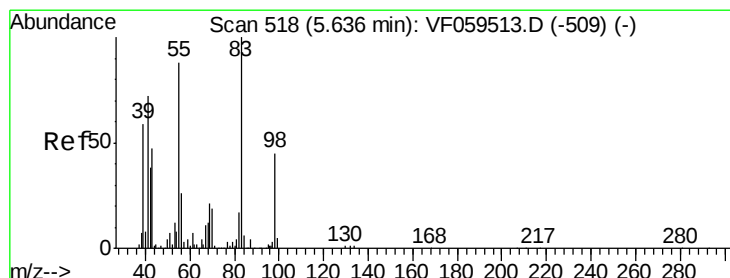
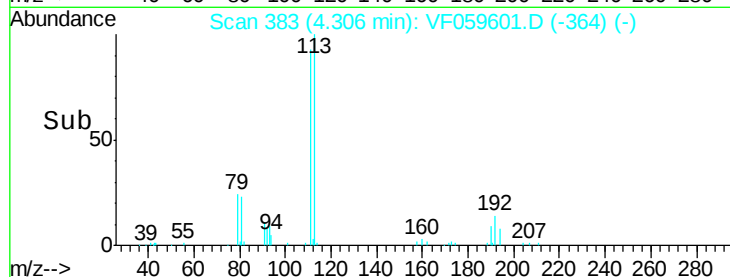
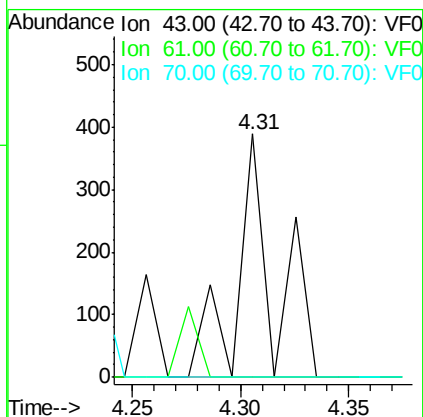
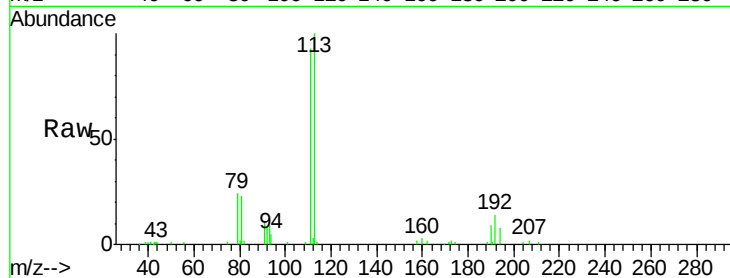




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 383
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

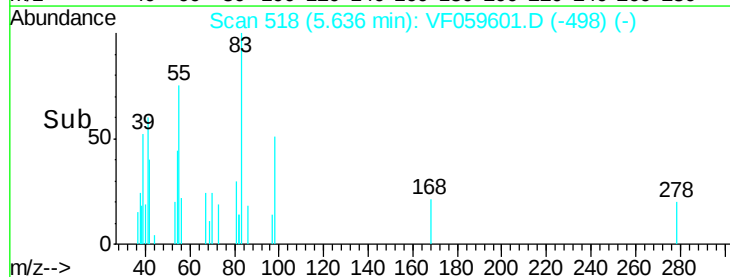
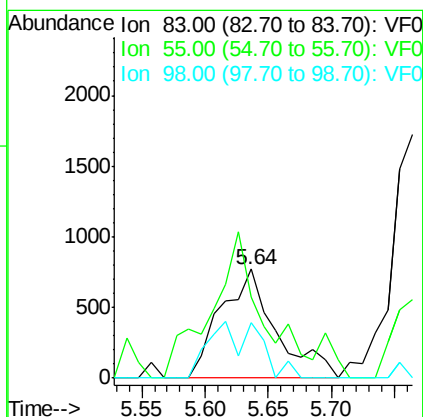
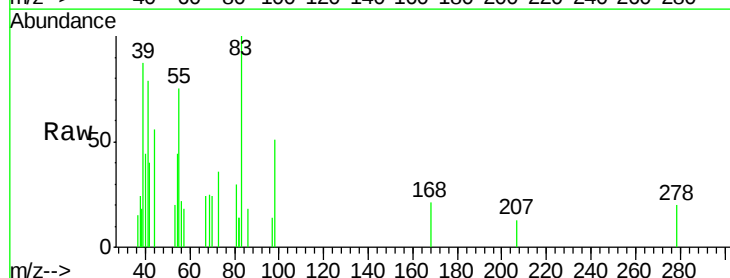
Instrument :
MSVOA_F
ClientSampled :

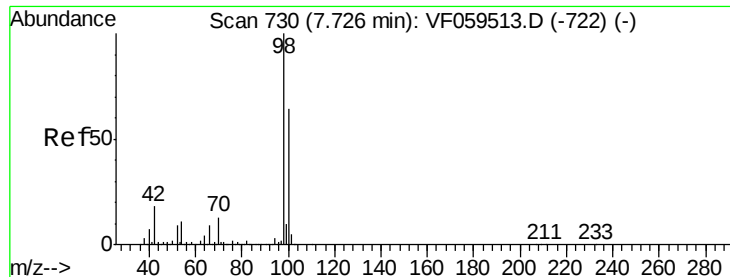
Tot Ion: 43 Resp: 468
Ion Ratio Lower Upper
43 100
61 0.0 33.7 50.5#
70 0.0 7.4 11.0#



#39
Methylcyclohexane
Concen: 1.362 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.00 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion: 83 Resp: 2340
Ion Ratio Lower Upper
83 100
55 75.0 70.2 105.4
98 50.8 36.2 54.2

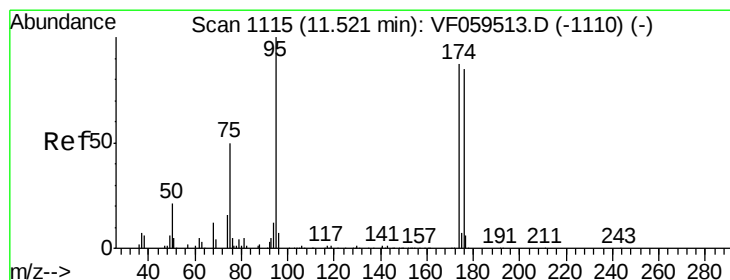
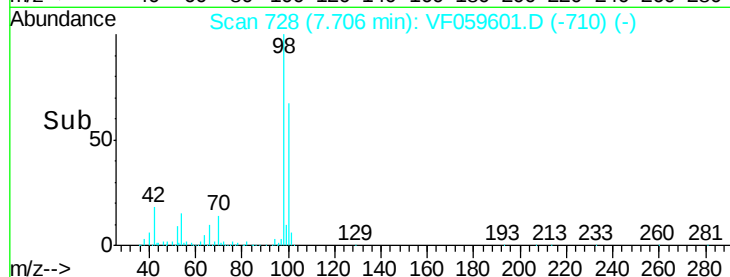
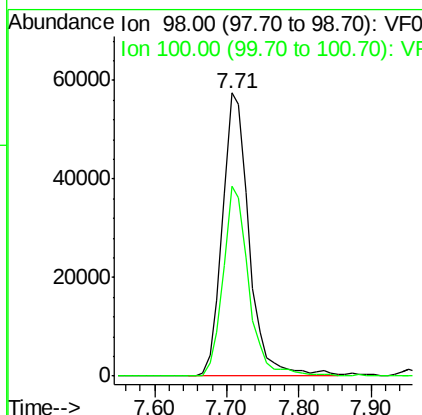
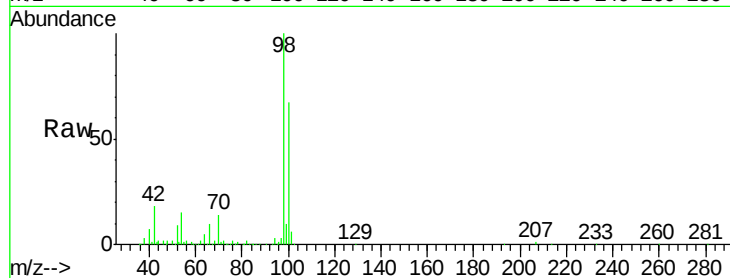




#50
Toluene-d8
Concen: 29.826 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.02 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

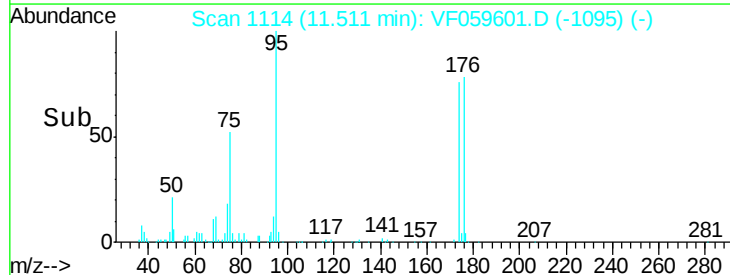
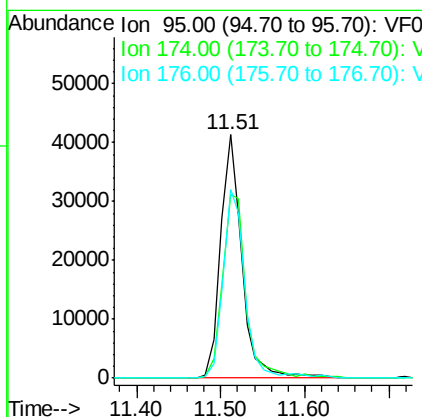
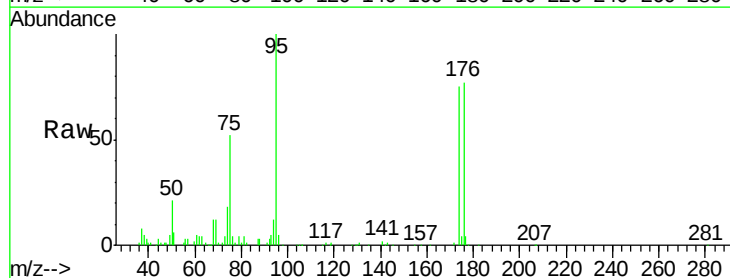
Instrument :
MSVOA_F
ClientSampleId :

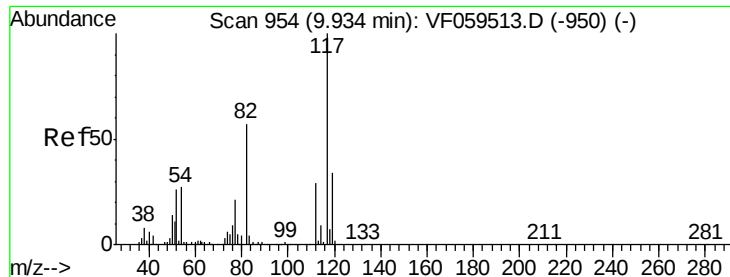
Tot Ion: 98 Resp: 147222
Ion Ratio Lower Upper
98 100
100 67.1 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 28.161 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion: 95 Resp: 72919
Ion Ratio Lower Upper
95 100
174 75.4 0.0 174.4
176 77.4 0.0 169.4

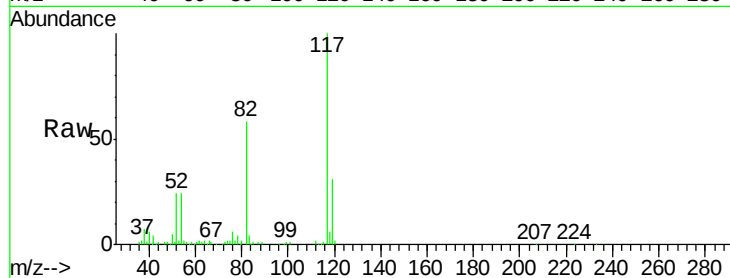




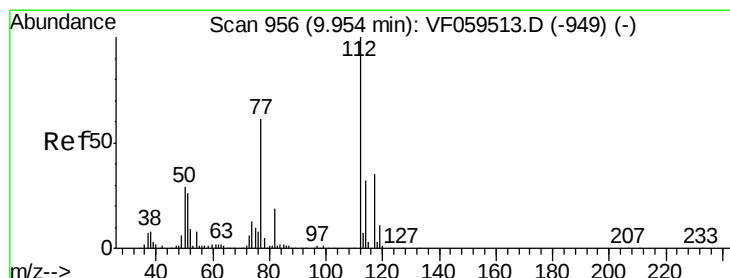
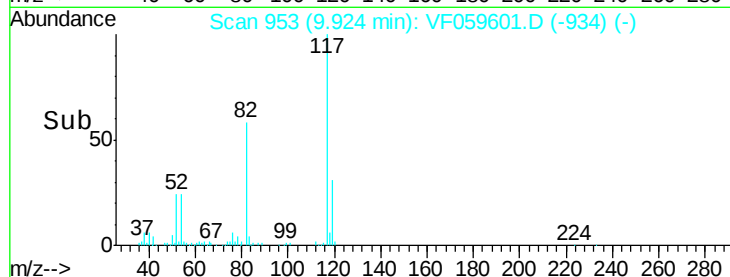
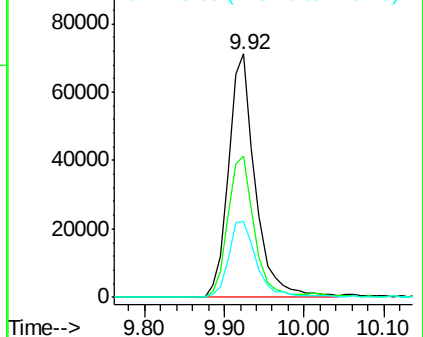
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 167533
Ion Ratio Lower Upper
117 100
82 58.0 46.1 69.1
119 31.1 27.2 40.8

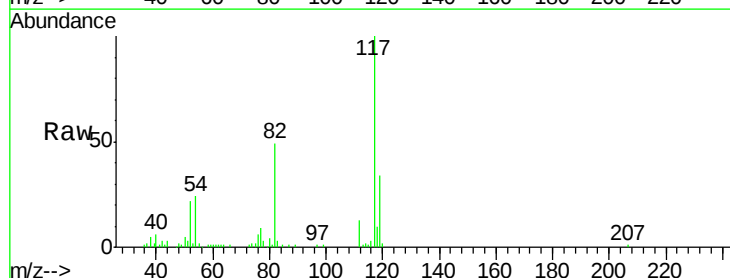


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

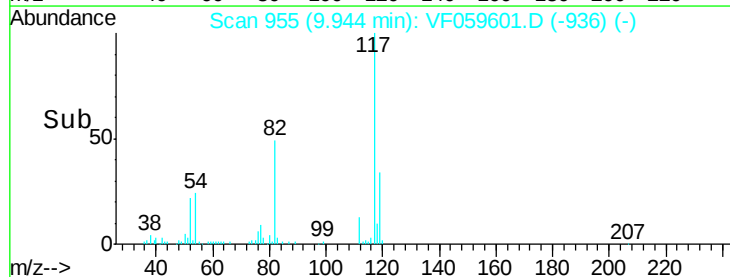
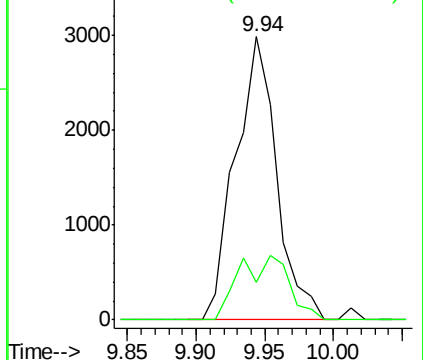


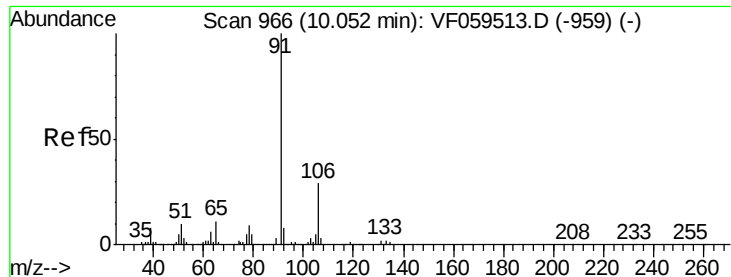
#65
Chlorobenzene
Concen: 1.975 ug/l
RT: 9.94 min Scan# 955
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion:112 Resp: 6205
Ion Ratio Lower Upper
112 100
114 13.3 25.4 38.2#



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V

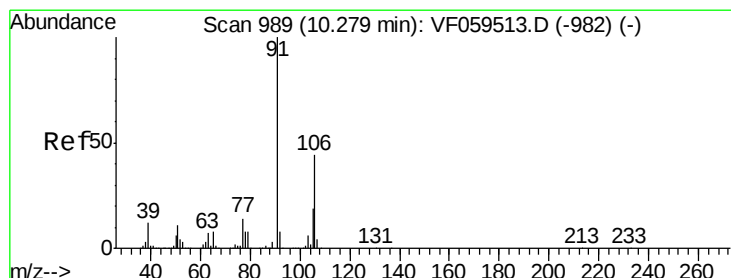
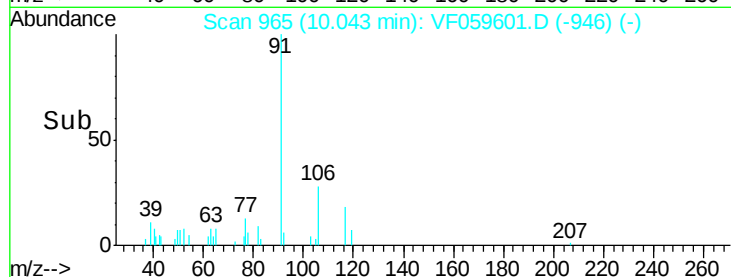
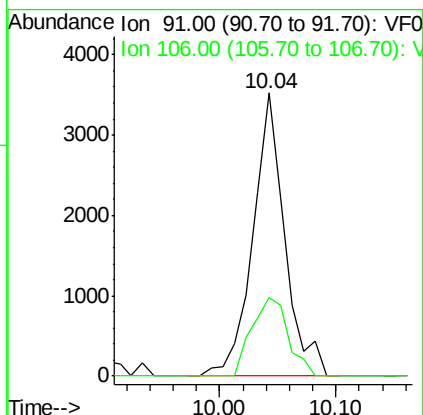
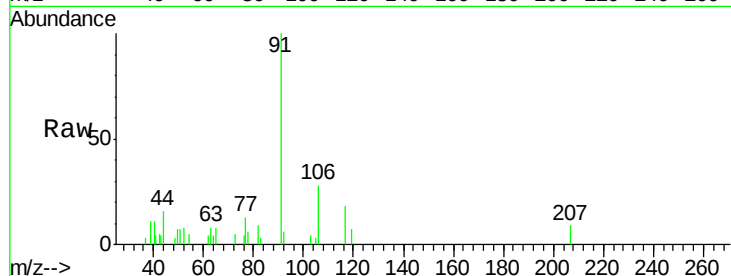




#67
Ethyl Benzene
Concen: 1.194 ug/l
RT: 10.04 min Scan# 965
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

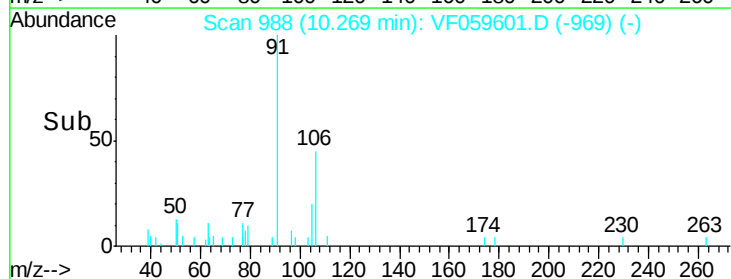
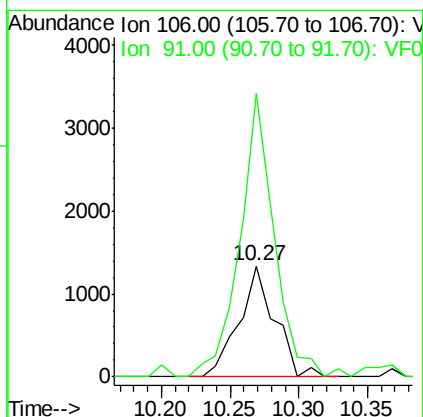
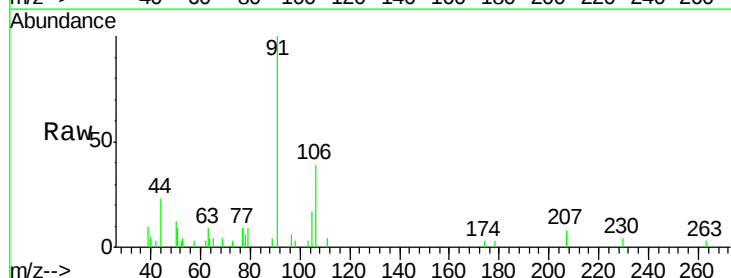
Instrument :
MSVOA_F
ClientSampleId :

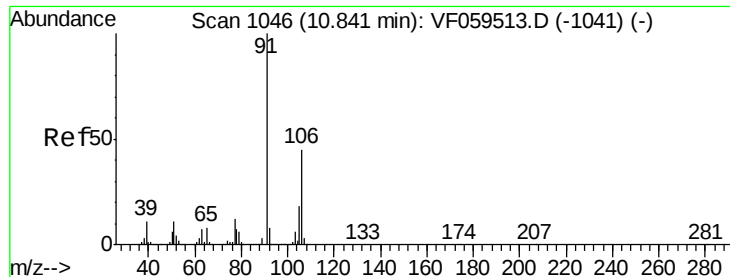
Tot Ion: 91 Resp: 6676
Ion Ratio Lower Upper
91 100
106 27.7 23.4 35.2



#68
m/p-Xylenes
Concen: 1.231 ug/l
RT: 10.27 min Scan# 988
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion: 106 Resp: 2429
Ion Ratio Lower Upper
106 100
91 255.0 181.0 271.4

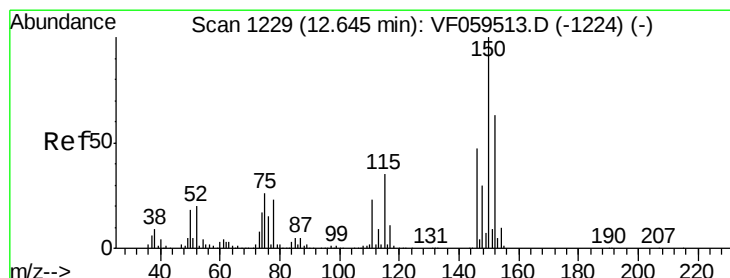
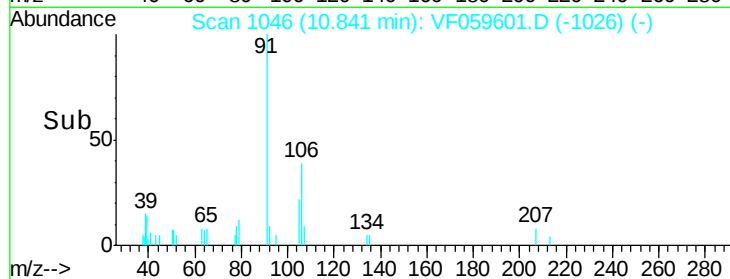
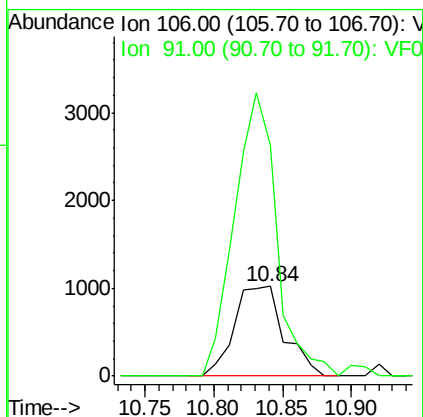
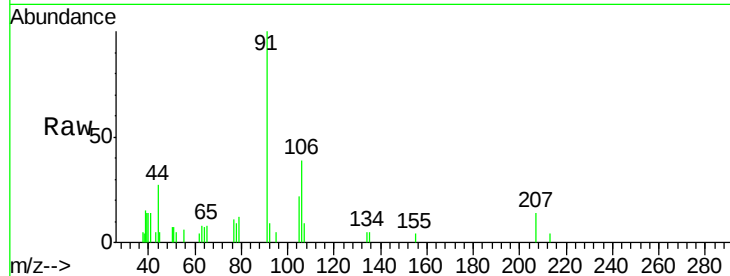




#69
o-Xylene
Concen: 1.226 ug/l
RT: 10.84 min Scan# 1046
Delta R.T. -0.00 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

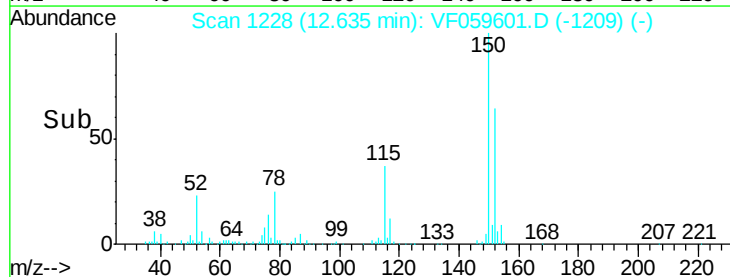
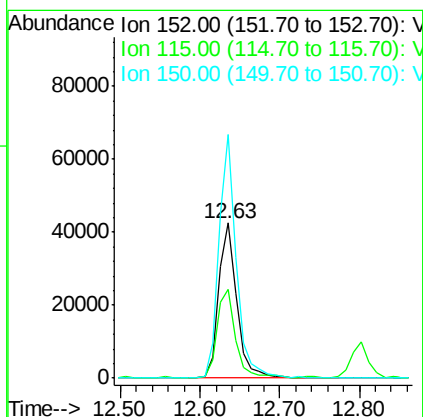
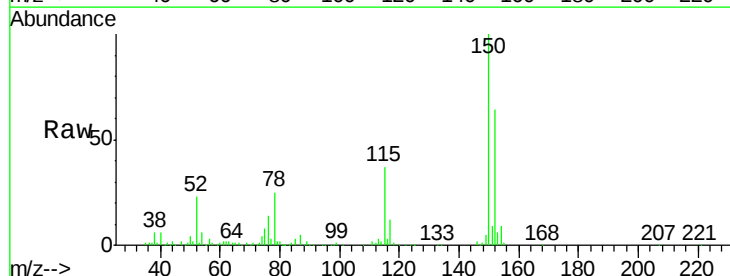
Instrument :
MSVOA_F
ClientSampleId :

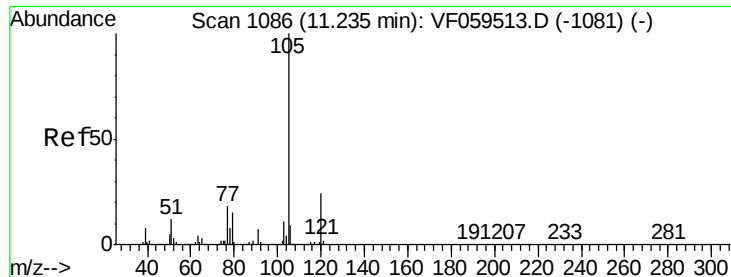
Tot Ion:106 Resp: 2576
Ion Ratio Lower Upper
106 100
91 257.8 112.3 336.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.01 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion:152 Resp: 68769
Ion Ratio Lower Upper
152 100
115 57.6 27.8 83.3
150 157.1 0.0 318.4





#73

Isopropylbenzene

Concen: 1.426 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059601.D

Acq: 21 Jul 2018 00:38

Instrument :

MSVOA_F

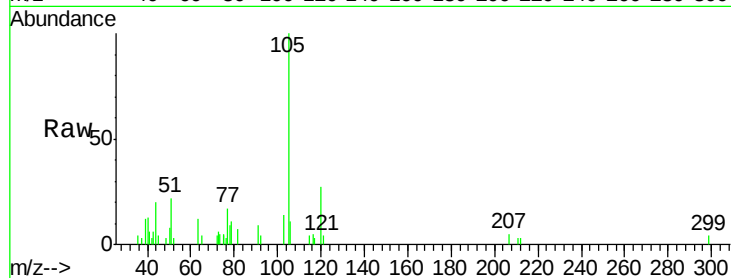
ClientSampleId :

Tot Ion:105 Resp: 6189

Ion Ratio Lower Upper

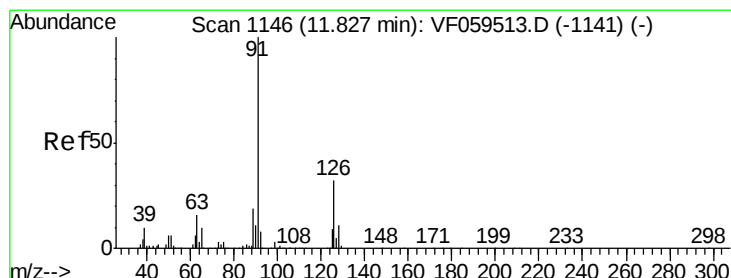
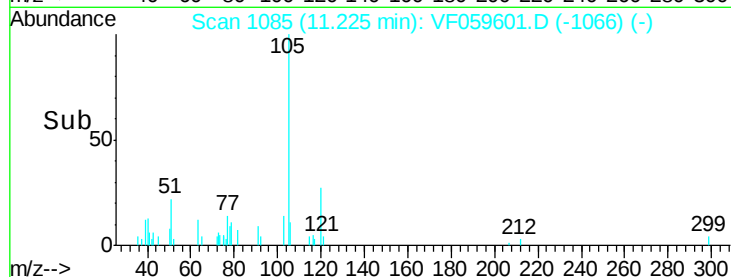
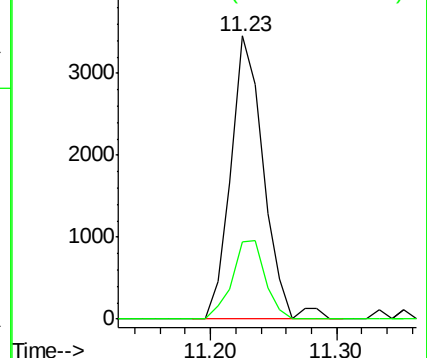
105 100

120 27.2 12.0 36.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 1.009 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.03 min

Lab File: VF059601.D

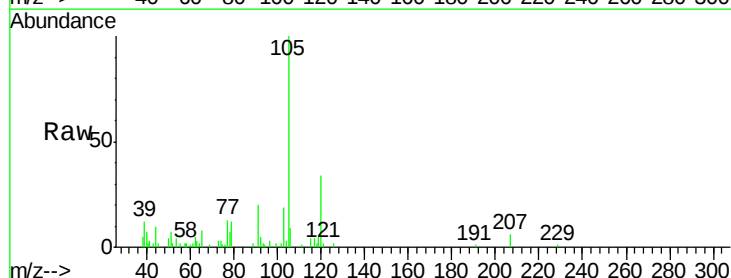
Acq: 21 Jul 2018 00:38

Tgt Ion: 91 Resp: 3093

Ion Ratio Lower Upper

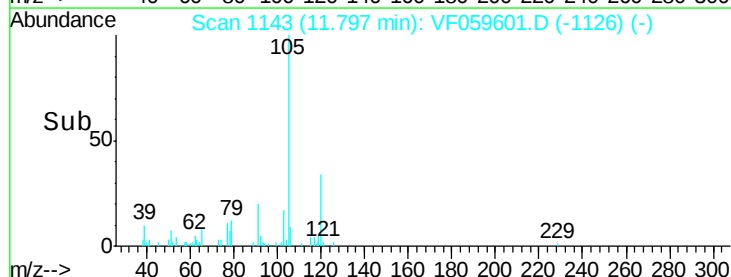
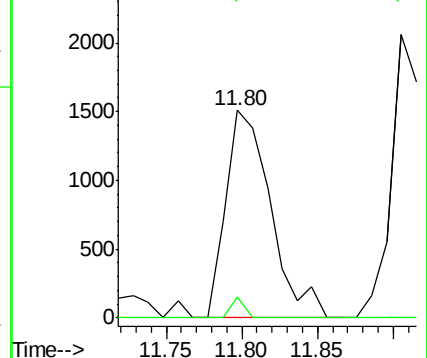
91 100

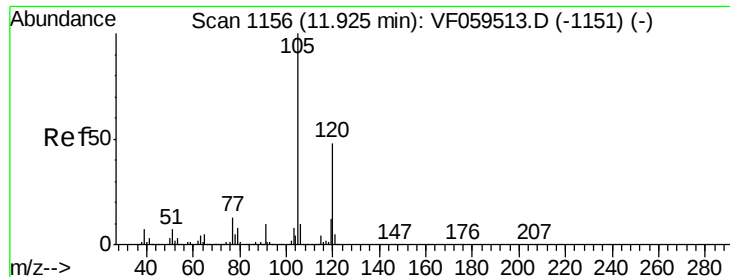
126 10.2 15.7 47.1#



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: 7.841 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VF059601.D

Acq: 21 Jul 2018 00:38

Instrument :

MSVOA_F

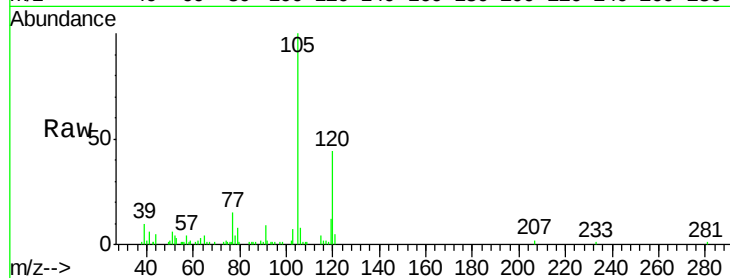
ClientSampleId :

Tot Ion:105 Resp: 28511

Ion Ratio Lower Upper

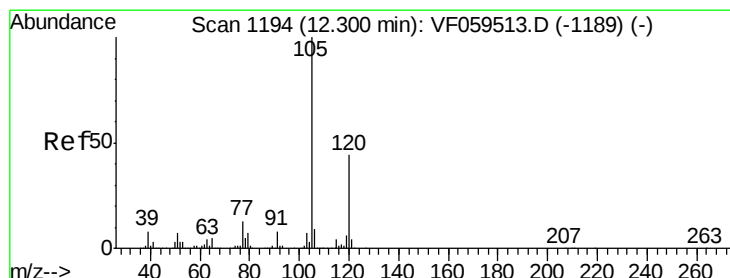
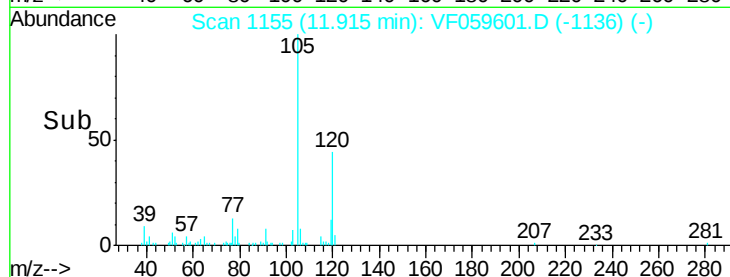
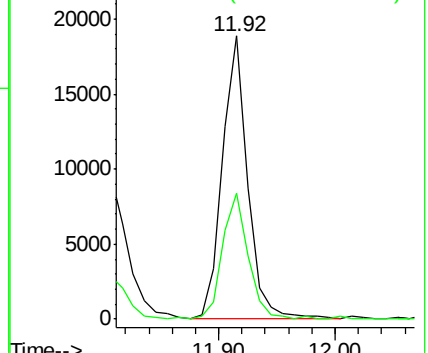
105 100

120 44.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 7.353 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. -0.01 min

Lab File: VF059601.D

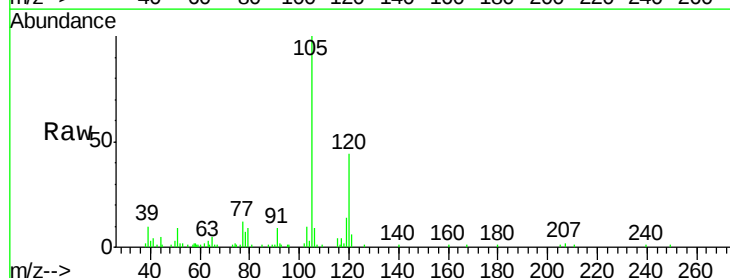
Acq: 21 Jul 2018 00:38

Tgt Ion:105 Resp: 27507

Ion Ratio Lower Upper

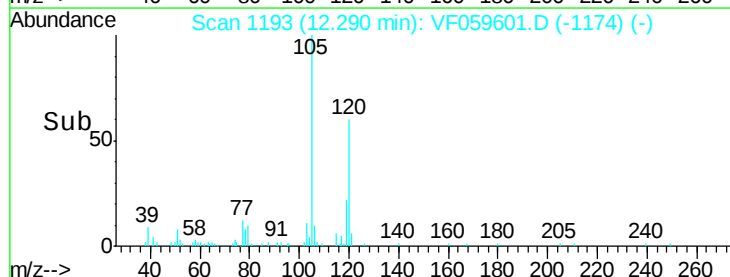
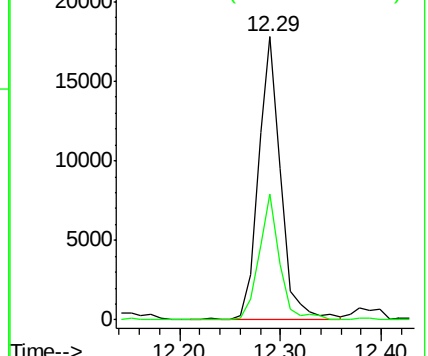
105 100

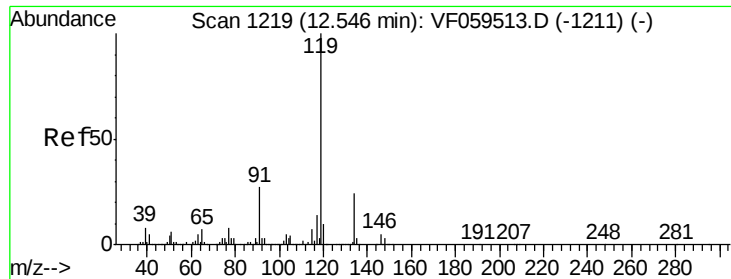
120 44.5 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

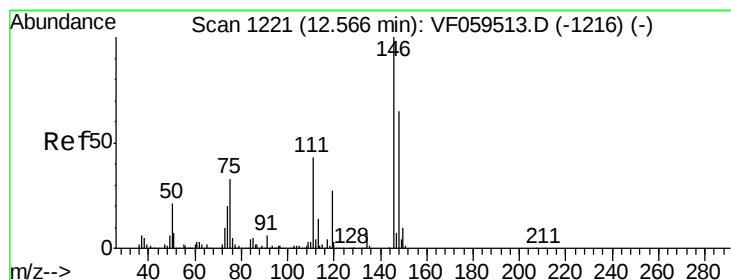
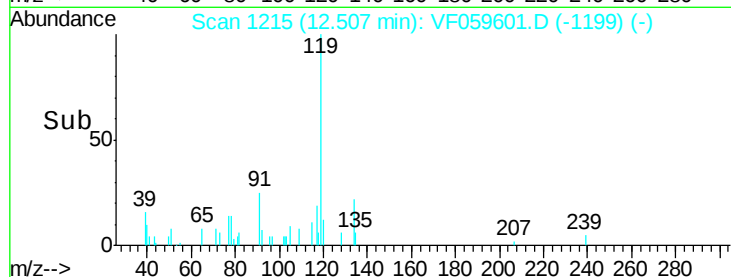
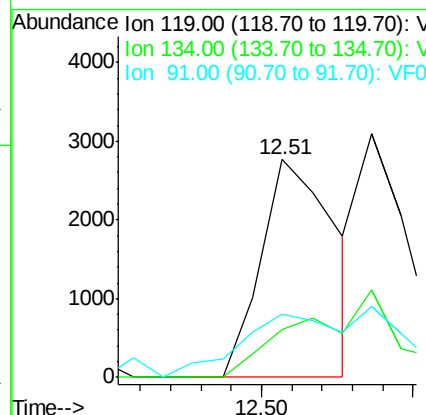
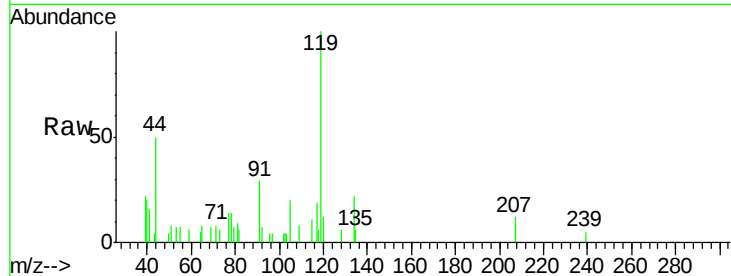




#86
p-Isopropyltoluene
Concen: 1.212 ug/l
RT: 12.51 min Scan# 1215
Delta R.T. -0.04 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

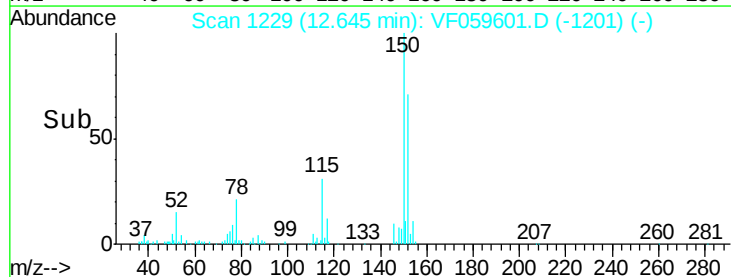
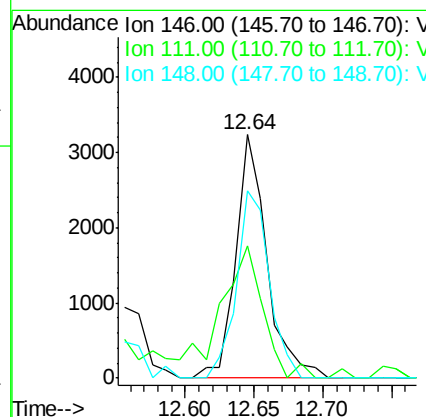
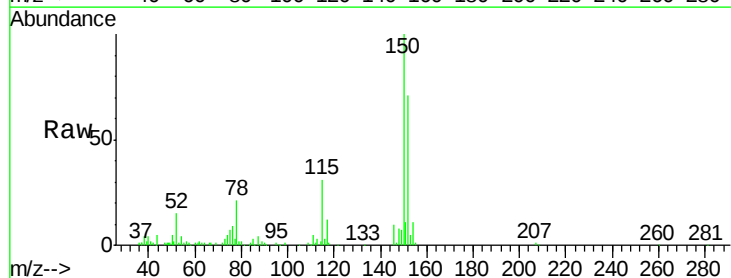
Instrument :
MSVOA_F
ClientSampleId :

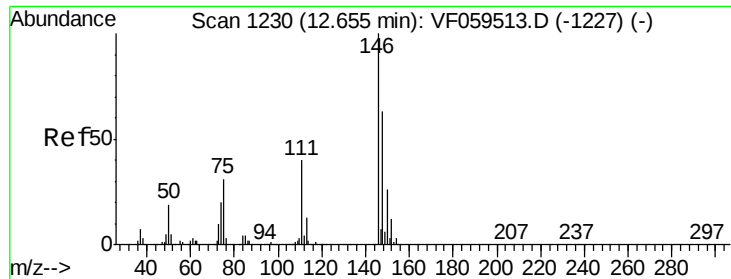
Tot Ion:119 Resp: 4680
Ion Ratio Lower Upper
119 100
134 22.1 12.0 36.0
91 29.1 13.5 40.4



#87
1,3-Dichlorobenzene
Concen: 2.447 ug/l
RT: 12.64 min Scan# 1229
Delta R.T. 0.08 min
Lab File: VF059601.D
Acq: 21 Jul 2018 00:38

Tgt Ion:146 Resp: 5106
Ion Ratio Lower Upper
146 100
111 54.1 21.4 64.3
148 77.1 32.7 98.1

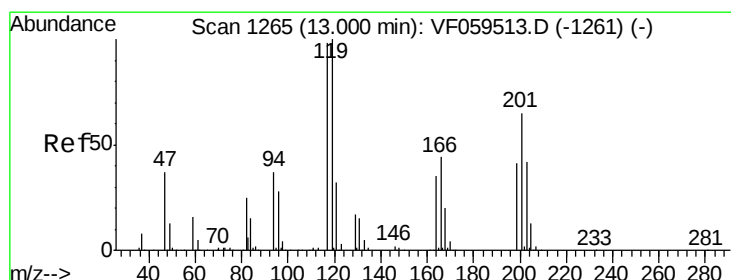
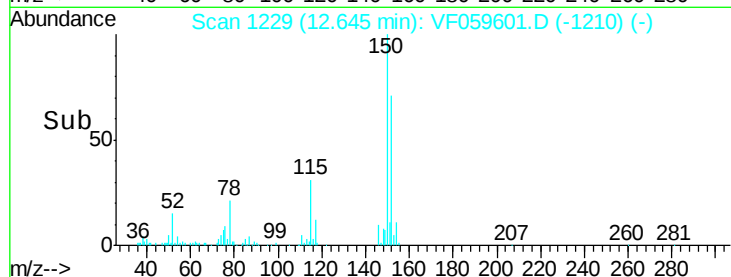
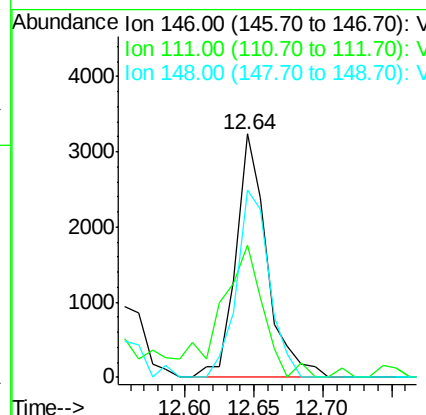
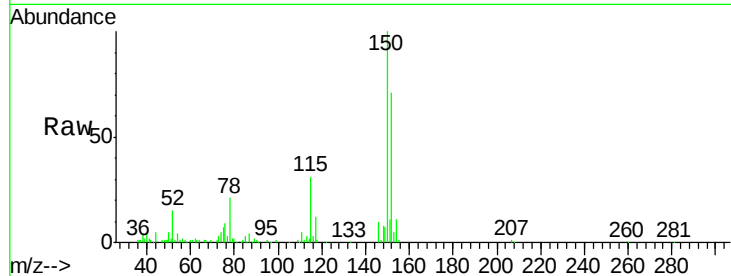




#88
 1,4-Dichlorobenzene
 Concen: 2.483 ug/l
 RT: 12.64 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: VF059601.D
 Acq: 21 Jul 2018 00:38

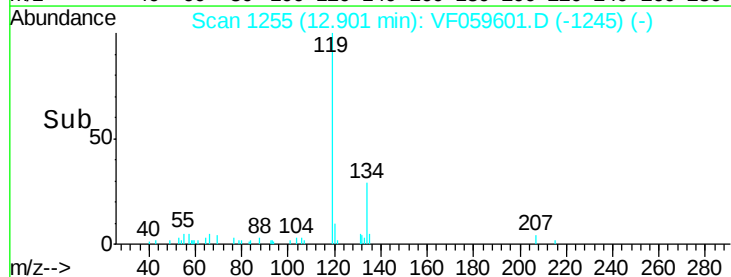
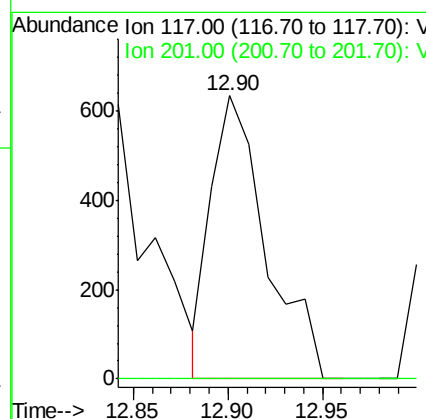
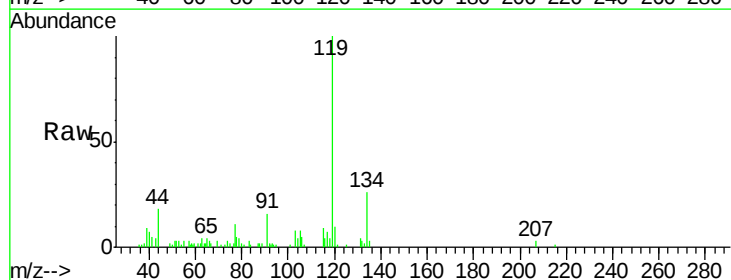
Instrument :
 MSVOA_F
 ClientSampled :

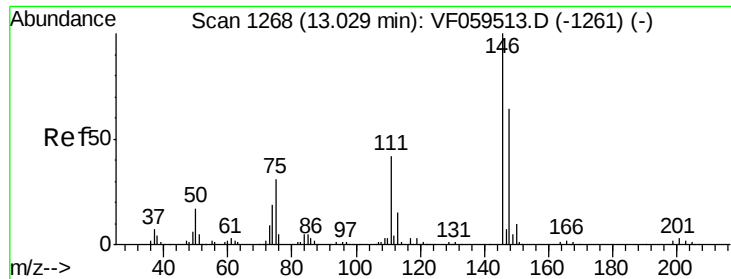
Tot Ion	Ratio	Lower	Upper
146	100		
111	54.1	20.0	59.9
148	77.1	31.5	94.5



#90
 Hexachloroethane
 Concen: 1.460 ug/l
 RT: 12.90 min Scan# 1255
 Delta R.T. -0.10 min
 Lab File: VF059601.D
 Acq: 21 Jul 2018 00:38

Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	32.6	98.0

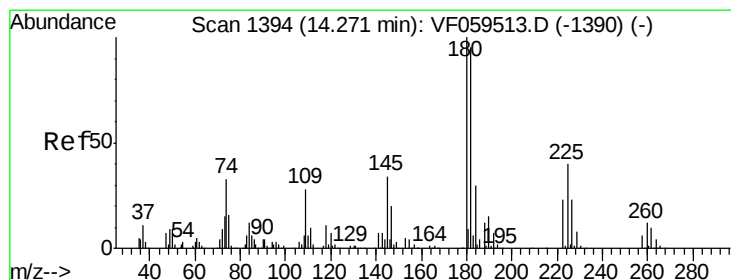
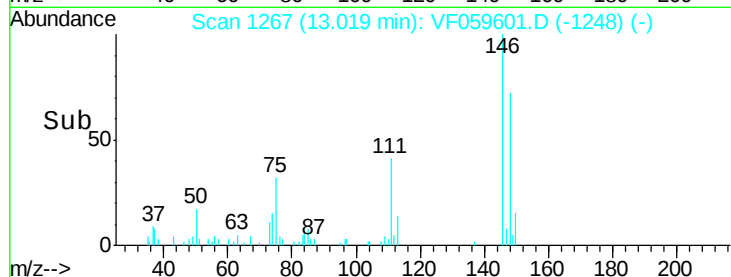
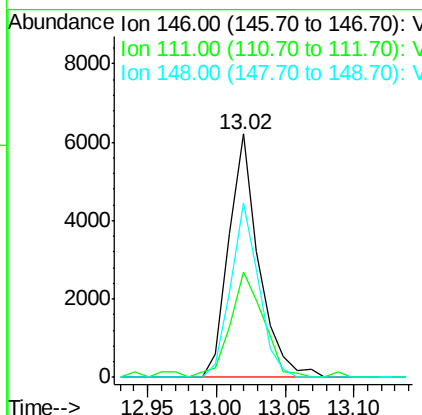
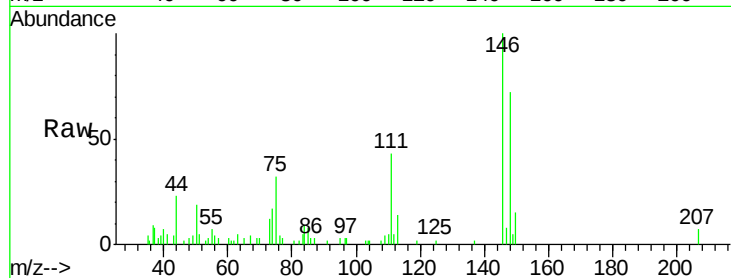




#91
 1,2-Dichlorobenzene
 Concen: 4.715 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: VF059601.D
 Acq: 21 Jul 2018 00:38

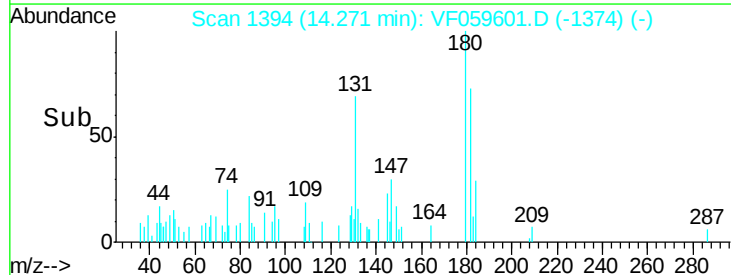
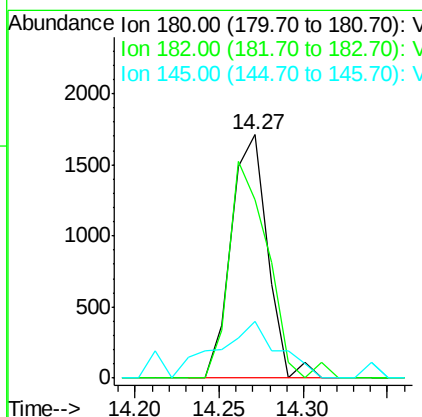
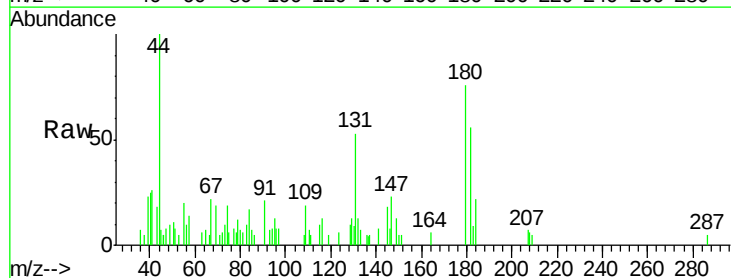
Instrument :
 MSVOA_F
 ClientSampleId :

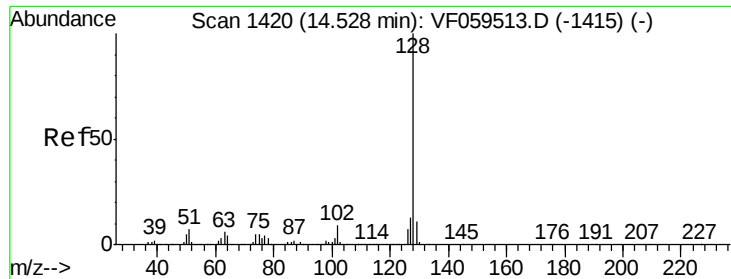
Tot Ion:146 Resp: 9410
 Ion Ratio Lower Upper
 146 100
 111 43.1 21.1 63.1
 148 71.5 32.3 96.8



#93
 1,2,4-Trichlorobenzene
 Concen: 2.120 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF059601.D
 Acq: 21 Jul 2018 00:38

Tgt Ion:180 Resp: 2571
 Ion Ratio Lower Upper
 180 100
 182 73.1 47.5 142.5
 145 23.2 17.3 51.7





#95
 Naphthalene
 Concen: 49.941 ug/l
 RT: 14.53 min Scan# 1420
 Delta R.T. -0.00 min
 Lab File: VF059601.D
 Acq: 21 Jul 2018 00:38

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	10.9	9.0	13.4

