

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059576.D
 Acq On : 20 Jul 2018 1:03
 Operator : VA/AP
 Sample : J4057-09
 Misc : 4.02g/5mL/MSVOA F/SOIL
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 07:09:46 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

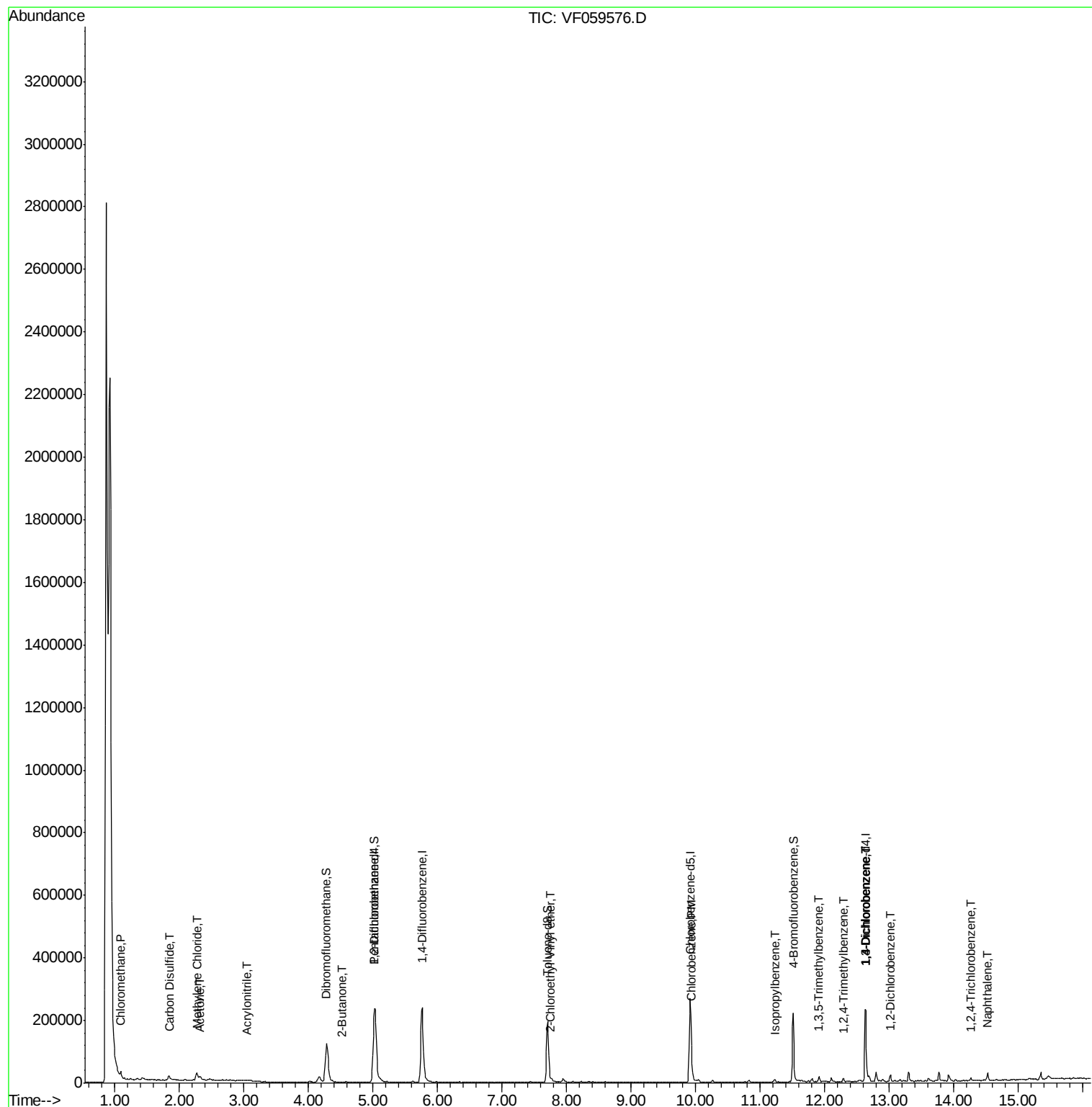
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	176466	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	263242	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	191262	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	64938	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	130317	47.48	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	94.96%	
35) Dibromofluoromethane	4.28	113	121241	53.18	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	106.36%	
50) Toluene-d8	7.71	98	171157	29.80	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	59.60%	
62) 4-Bromofluorobenzene	11.51	95	81309	26.99	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	53.98%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.09	50	1886	1.585	ug/l #	44
11) Tert butyl alcohol	2.65	59	925	Below Cal	#	74
13) Acrolein	2.19	56	187	Below Cal		92
15) Acrylonitrile	3.04	53	312	1.355	ug/l #	13
16) Acetone	2.32	43	16518	14.311	ug/l	93
17) Carbon Disulfide	1.83	76	22415	6.630	ug/l #	80
20) Methylene Chloride	2.26	84	13142	6.639	ug/l	97
25) 2-Butanone	4.51	43	858	1.347	ug/l #	60
29) Tetrahydrofuran	4.27	42	190	Below Cal	#	53
37) Ethyl Acetate	4.31	43	198	Below Cal	#	63
49) 1,4-Dioxane	6.85	88	74	Below Cal	#	15
58) 2-Chloroethyl Vinyl ether	7.76	63	745	4.737	ug/l	100
65) Chlorobenzene	9.94	112	10271	2.863	ug/l	99
73) Isopropylbenzene	11.23	105	4364	1.065	ug/l	90
80) 1,3,5-Trimethylbenzene	11.91	105	10049	2.927	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	5858	1.658	ug/l	90
87) 1,3-Dichlorobenzene	12.64	146	7386	3.748	ug/l	87
88) 1,4-Dichlorobenzene	12.64	146	7386	3.804	ug/l	91
91) 1,2-Dichlorobenzene	13.02	146	7681	4.076	ug/l	95
93) 1,2,4-Trichlorobenzene	14.27	180	2159	1.885	ug/l	97
95) Naphthalene	14.53	128	16562	6.962	ug/l	98

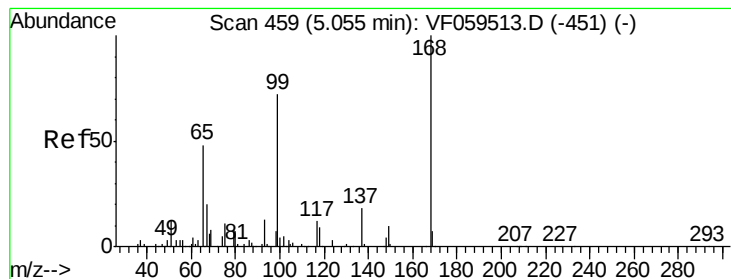
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.03 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

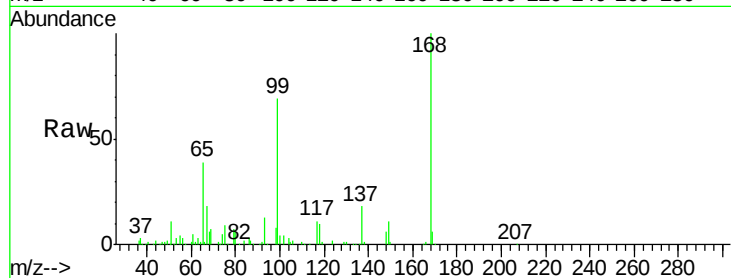
ClientSampleId :

Tot Ion:168 Resp: 176466

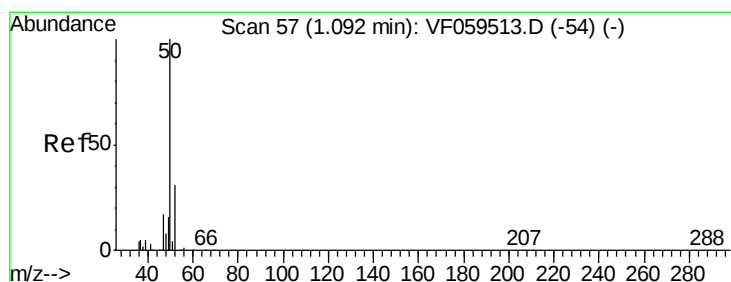
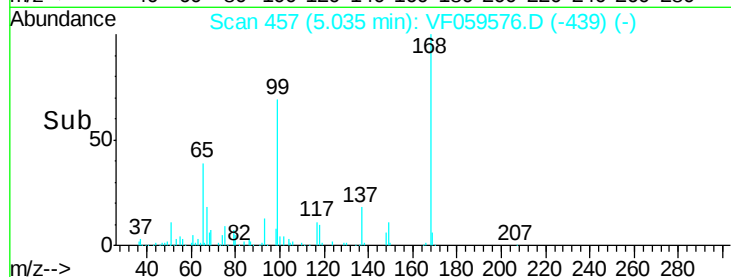
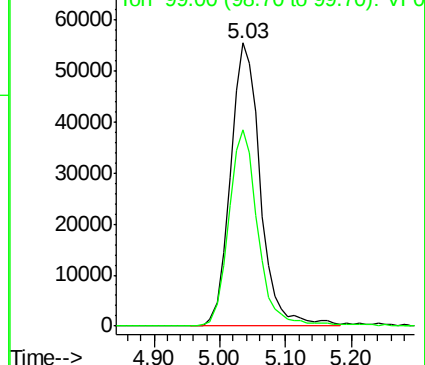
Ion Ratio Lower Upper

168 100

99 69.5 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 1.585 ug/l

RT: 1.09 min Scan# 57

Delta R.T. -0.00 min

Lab File: VF059576.D

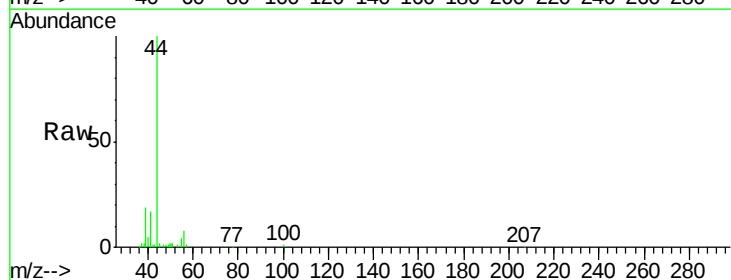
Acq: 20 Jul 2018 1:03

Tgt Ion: 50 Resp: 1886

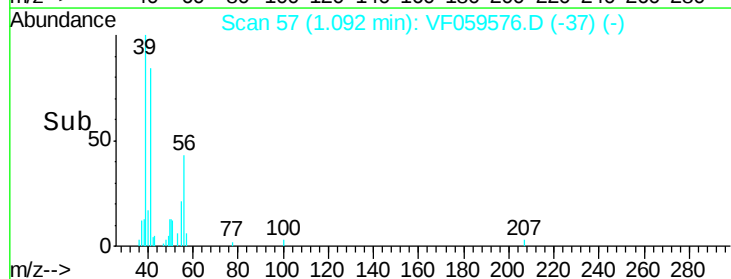
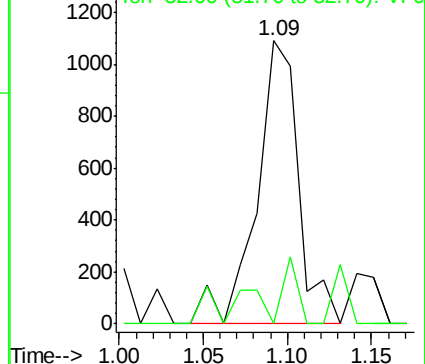
Ion Ratio Lower Upper

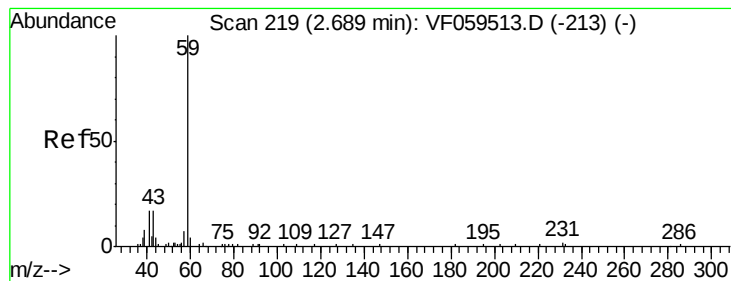
50 100

52 0.0 24.6 37.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0



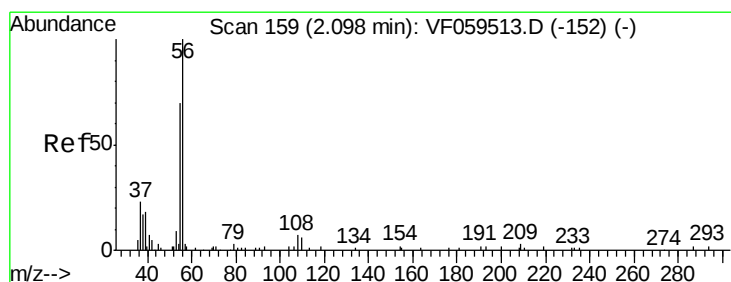
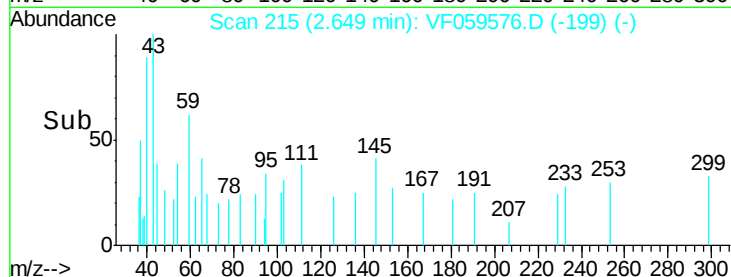
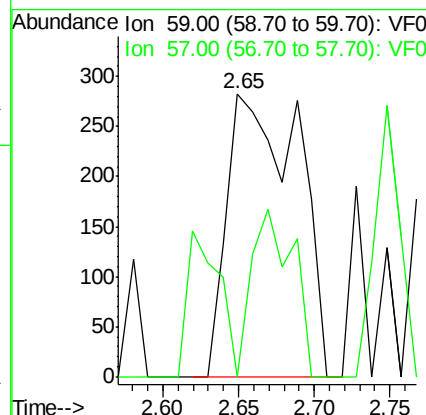
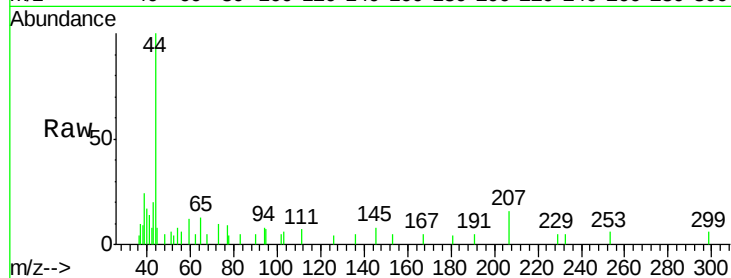


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.65 min Scan# 215
Delta R.T. -0.04 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

Instrument :
MSVOA_F
ClientSampled :

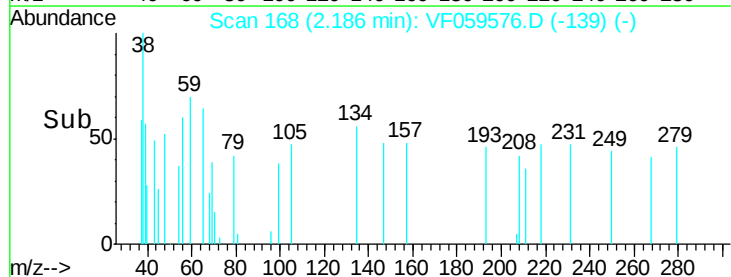
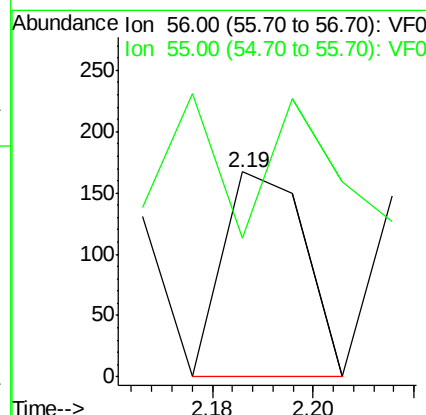
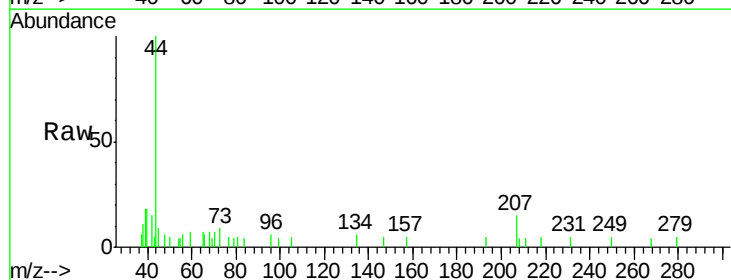
Tot Ion: 59 Resp: 925
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

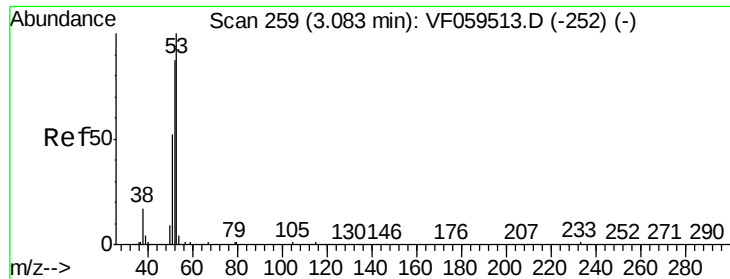


#13

Acrolein
Concen: Below Cal
RT: 2.19 min Scan# 168
Delta R.T. 0.09 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

Tgt Ion: 56 Resp: 187
Ion Ratio Lower Upper
56 100
55 67.7 59.4 89.2





#15

Acrylonitrile

Concen: 1.355 ug/l

RT: 3.04 min Scan# 255

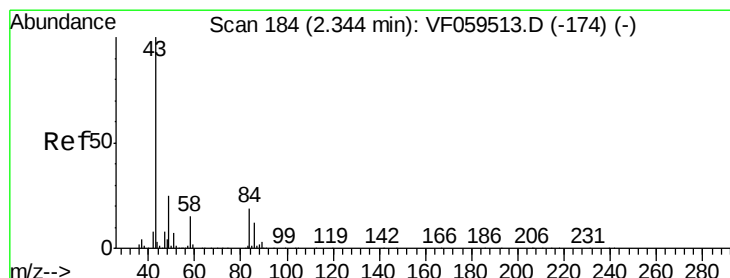
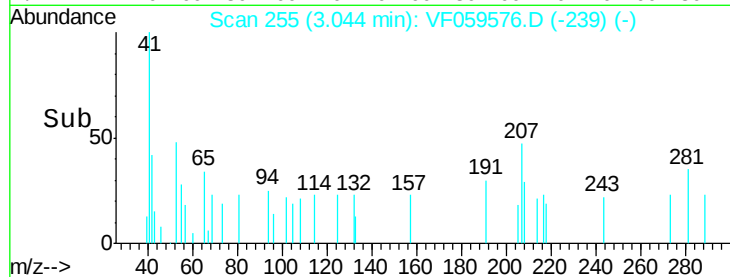
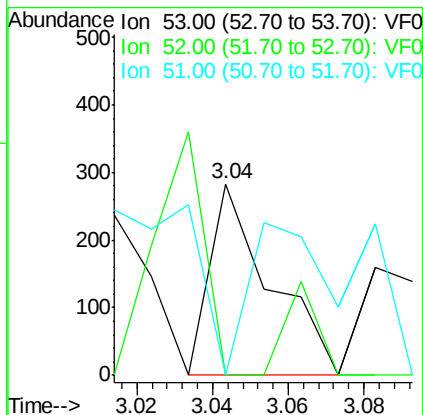
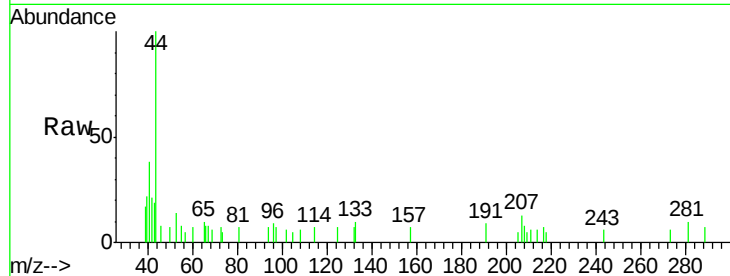
Delta R.T. -0.04 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	312
Ion	Ratio	Lower	Upper
53	100		
52	0.0	70.1	105.1#
51	0.0	42.5	63.7#



#16

Acetone

Concen: 14.311 ug/l

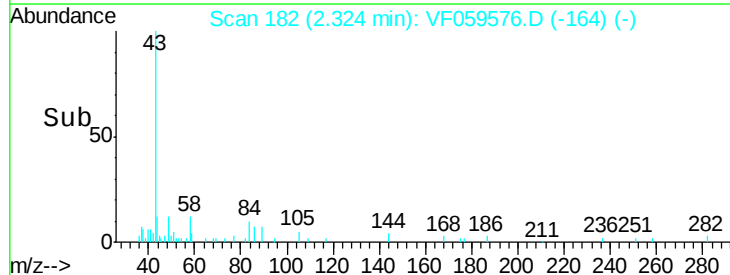
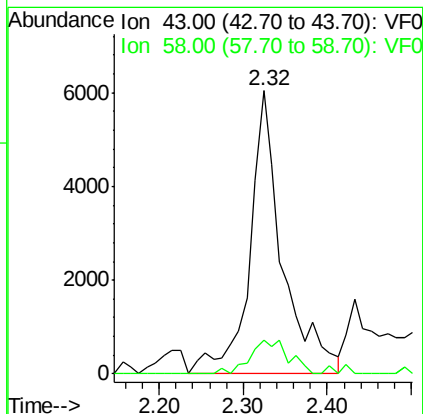
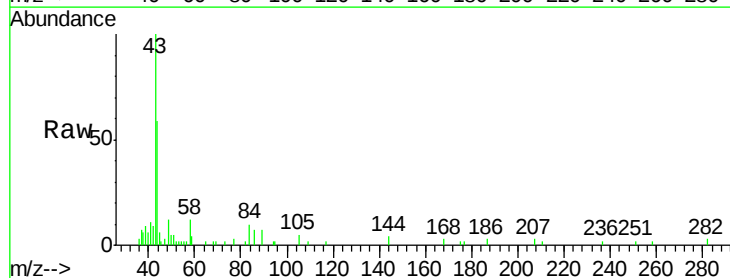
RT: 2.32 min Scan# 182

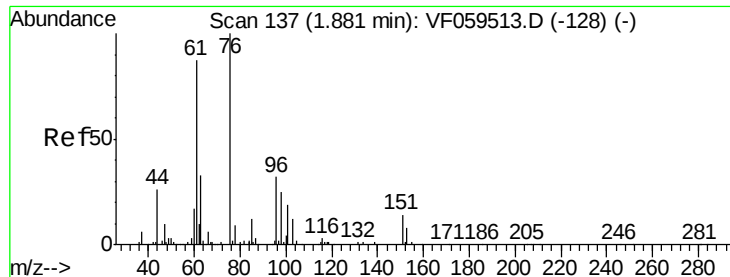
Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Tgt Ion:	43	Resp:	16518
Ion	Ratio	Lower	Upper
43	100		
58	11.8	11.8	17.6

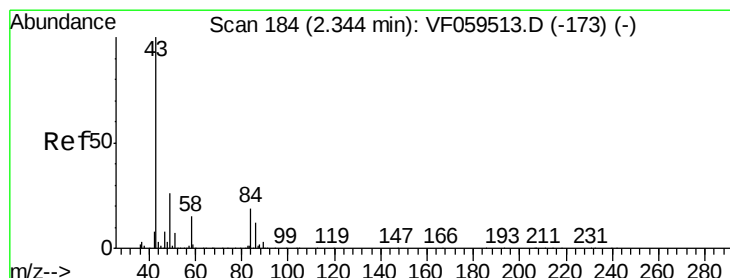
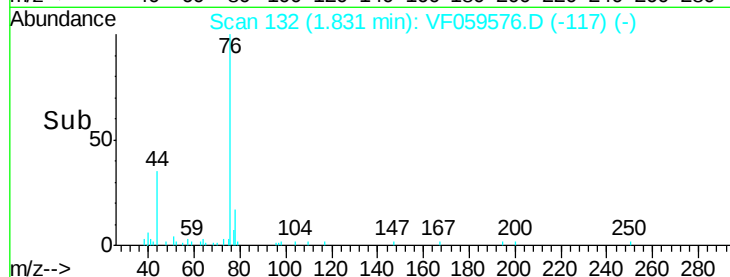
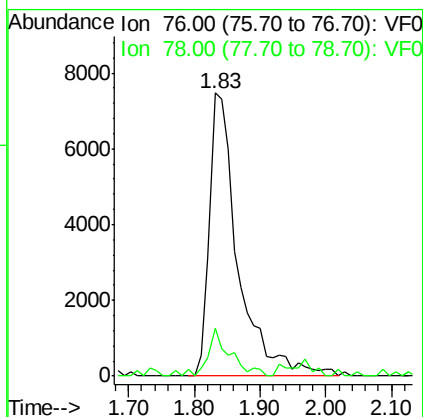
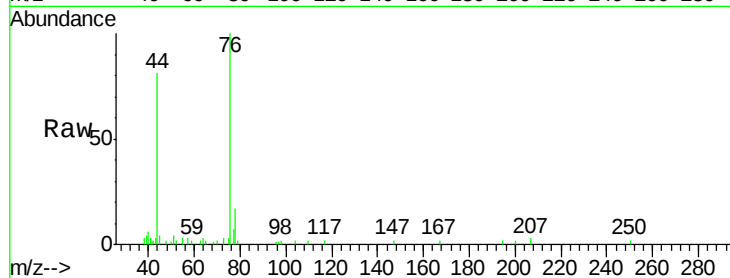




#17
Carbon Disulfide
Concen: 6.630 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.05 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

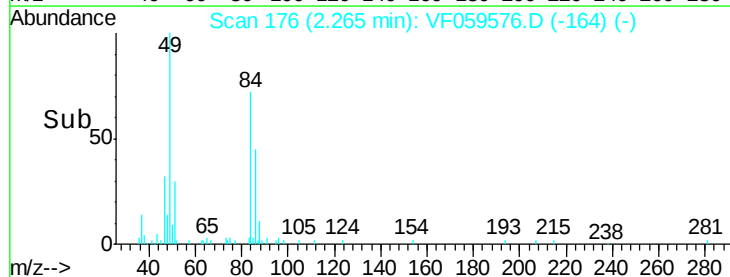
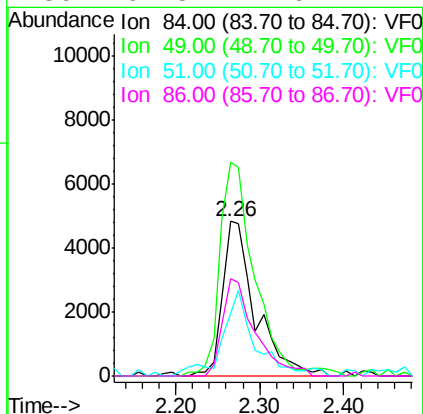
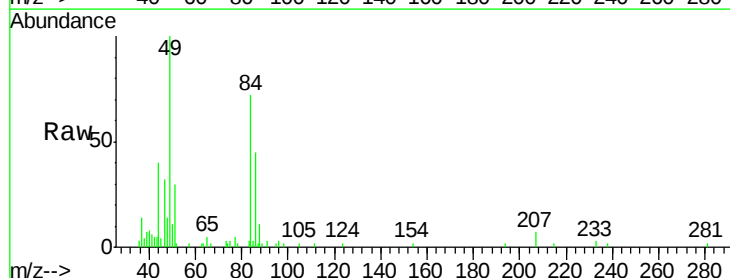
Instrument :
MSVOA_F
ClientSampleId :

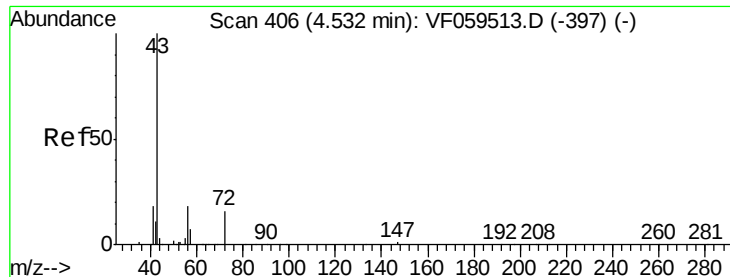
Tot Ion: 76 Resp: 22415
Ion Ratio Lower Upper
76 100
78 17.0 7.8 11.6#



#20
Methylene Chloride
Concen: 6.639 ug/l
RT: 2.26 min Scan# 176
Delta R.T. -0.08 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

Tgt Ion: 84 Resp: 13142
Ion Ratio Lower Upper
84 100
49 138.4 109.4 164.2
51 41.0 30.5 45.7
86 62.8 47.6 71.4





#25

2-Butanone

Concen: 1.347 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

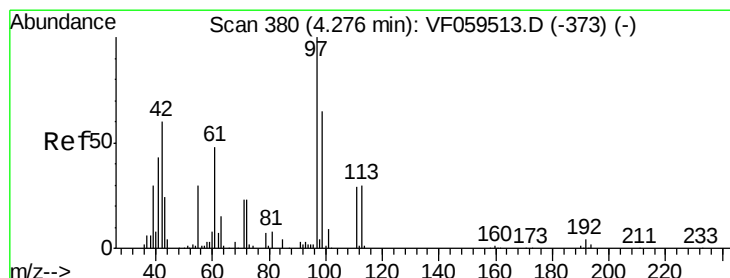
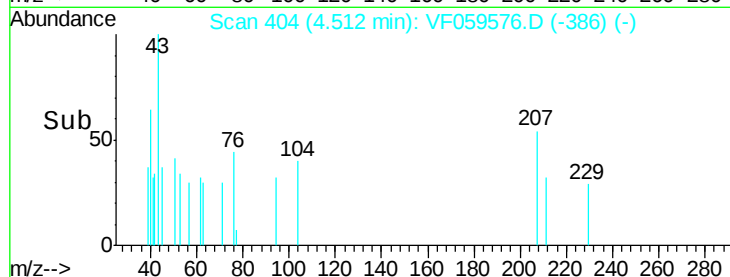
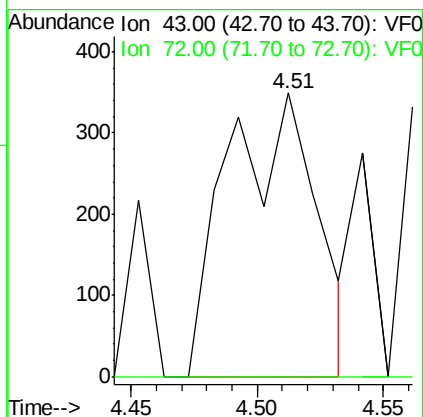
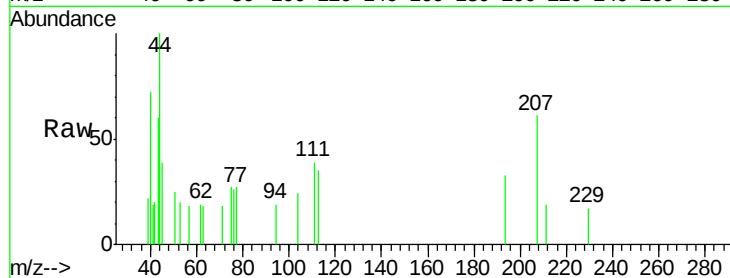
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 858

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

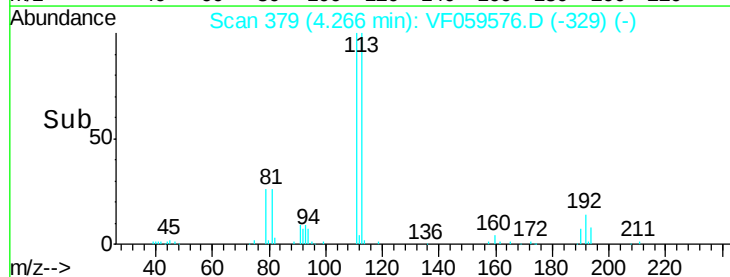
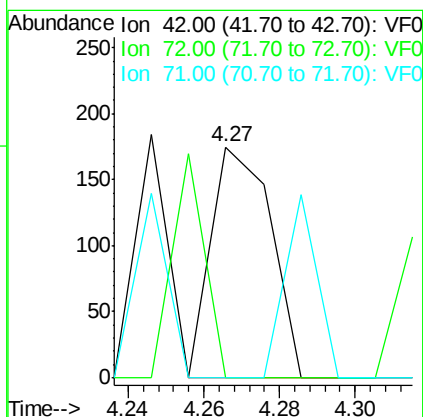
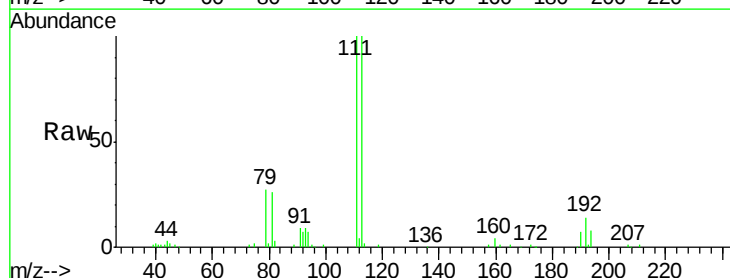
Tgt Ion: 42 Resp: 190

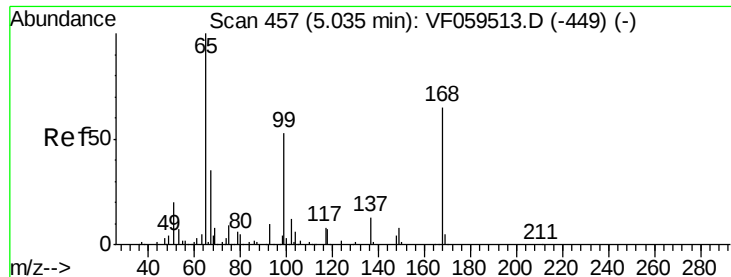
Ion Ratio Lower Upper

42 100

72 53.2 28.7 43.1#

71 0.0 30.8 46.2#





#33

1,2-Dichloroethane-d4

Concen: 47.483 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

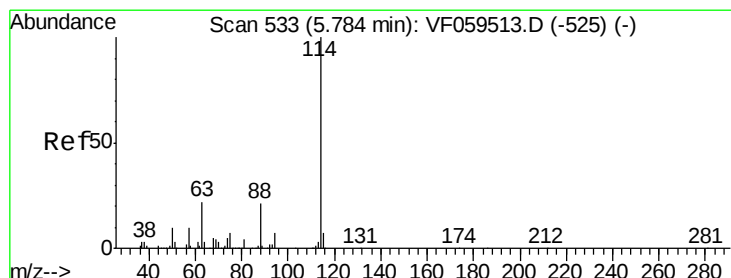
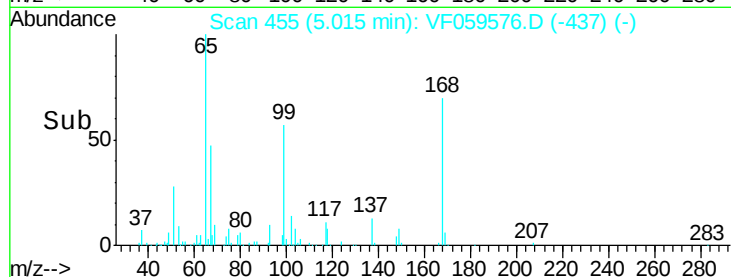
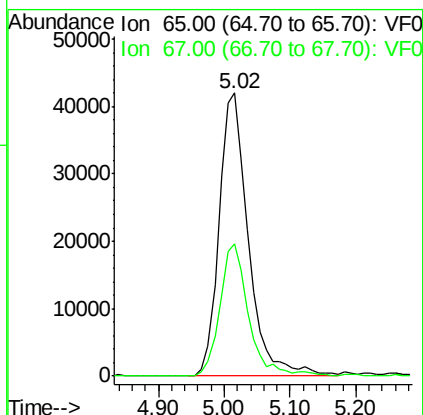
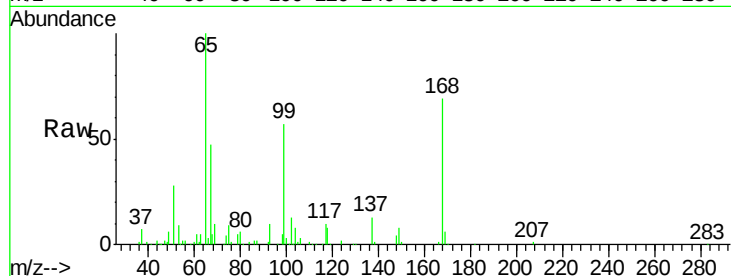
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 130317

Ion Ratio Lower Upper

65 100

67 46.8 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: VF059576.D

Acq: 20 Jul 2018 1:03

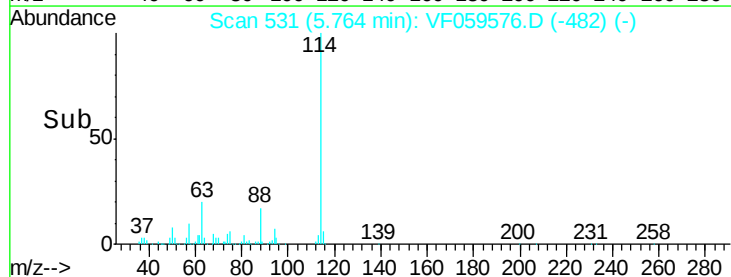
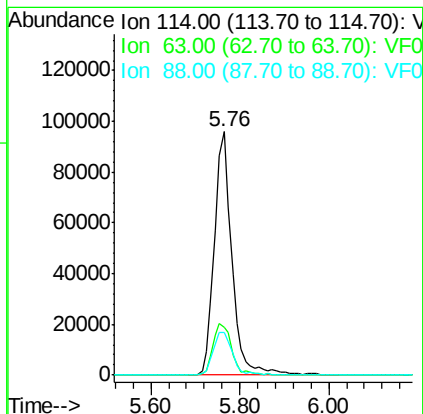
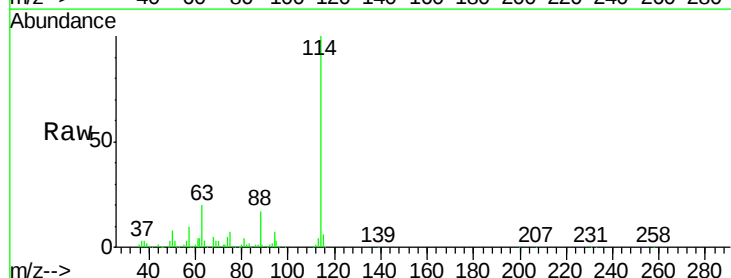
Tgt Ion: 114 Resp: 263242

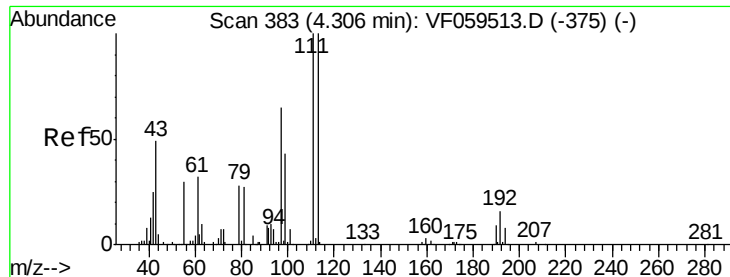
Ion Ratio Lower Upper

114 100

63 19.7 0.0 44.8

88 17.4 0.0 42.6





#35

Dibromofluoromethane

Concen: 53.179 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.03 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :
MSVOA_F
ClientSampleId :

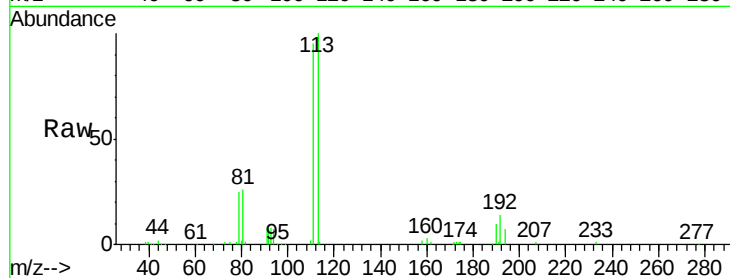
Tot Ion:113 Resp: 121241

Ion Ratio Lower Upper

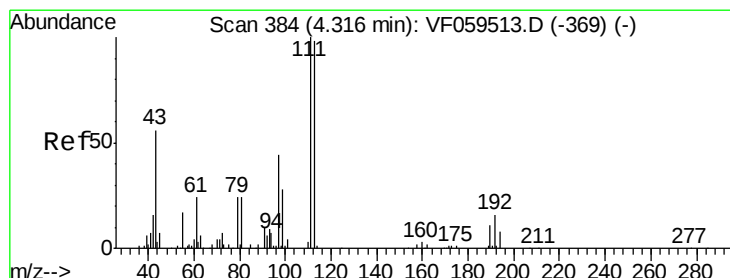
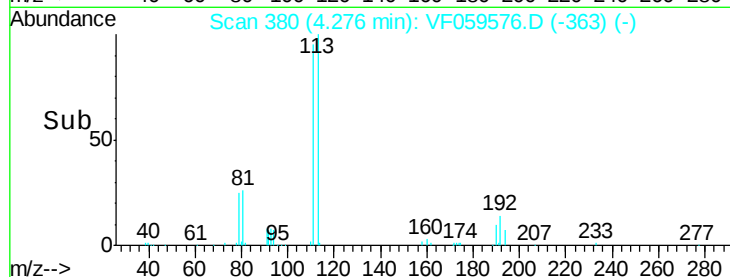
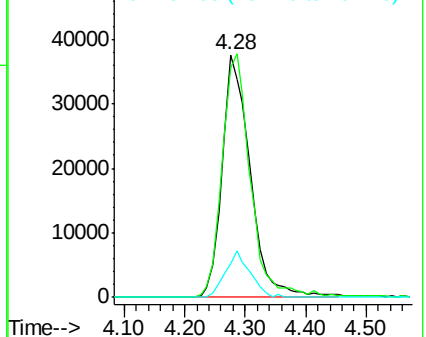
113 100

111 94.8 80.3 120.5

192 13.9 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: VF059576.D

Acq: 20 Jul 2018 1:03

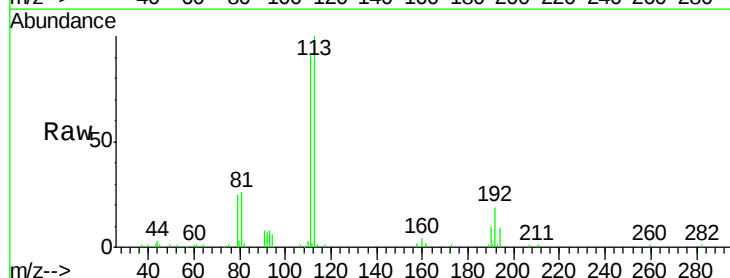
Tgt Ion: 43 Resp: 198

Ion Ratio Lower Upper

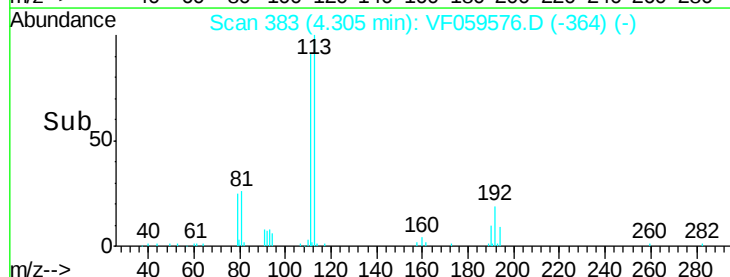
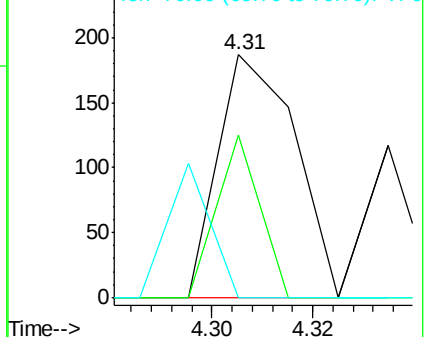
43 100

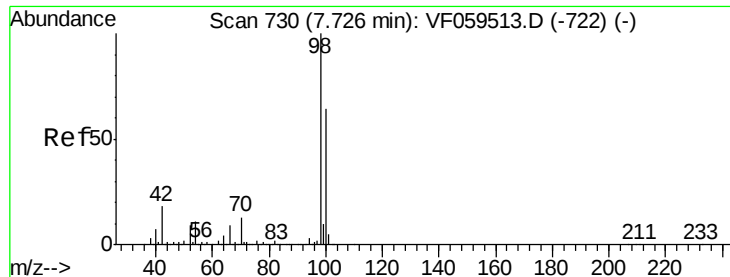
61 66.8 33.7 50.5#

70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0





#50

Toluene-d8

Concen: 29.803 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

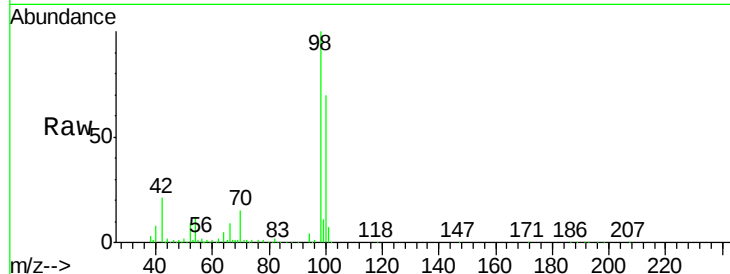
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 171157

Ion Ratio Lower Upper

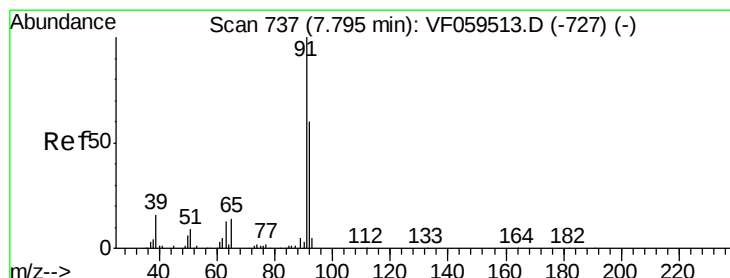
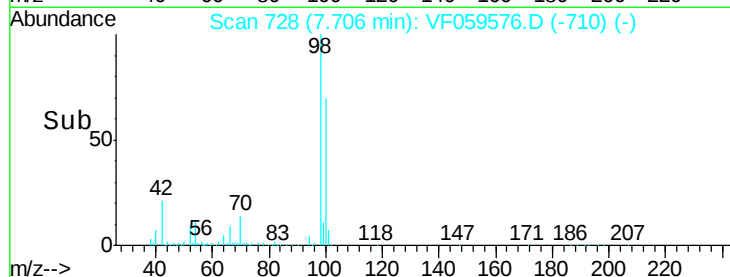
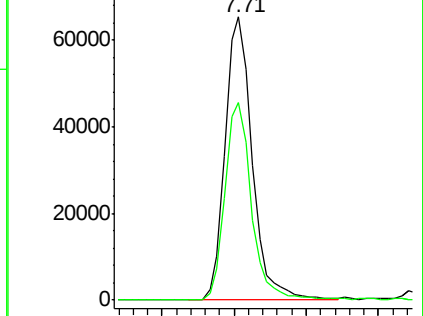
98 100

100 69.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#58

2-Chloroethyl Vinyl ether

Concen: 4.737 ug/l

RT: 7.76 min Scan# 733

Delta R.T. -0.04 min

Lab File: VF059576.D

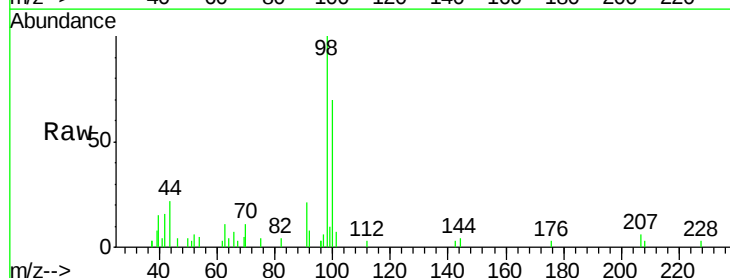
Acq: 20 Jul 2018 1:03

Tgt Ion: 63 Resp: 745

Ion Ratio Lower Upper

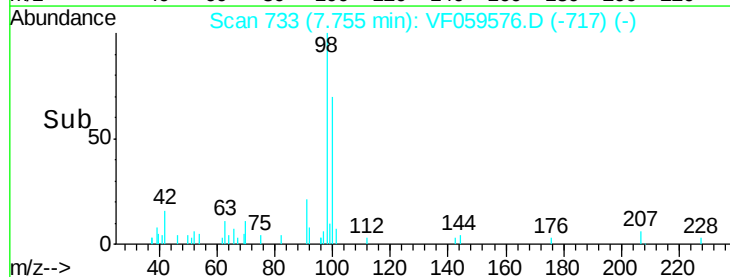
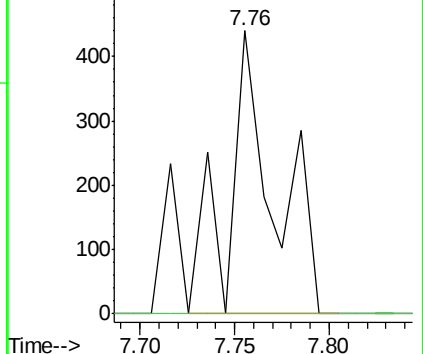
63 100

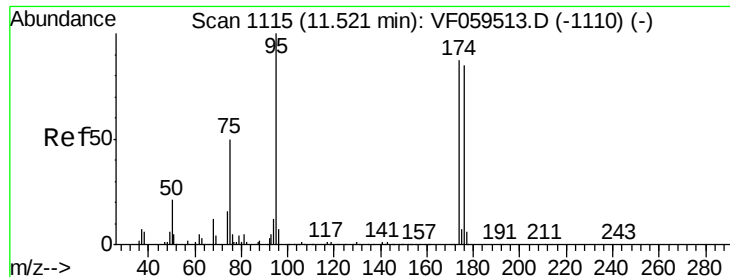
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#62

4-Bromofluorobenzene

Concen: 26.989 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

ClientSampleId :

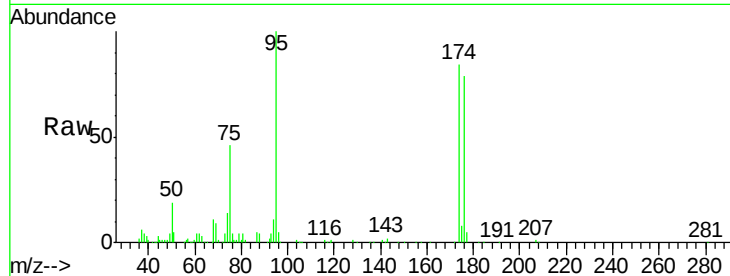
Tot Ion: 95 Resp: 81309

Ion Ratio Lower Upper

95 100

174 84.0 0.0 174.4

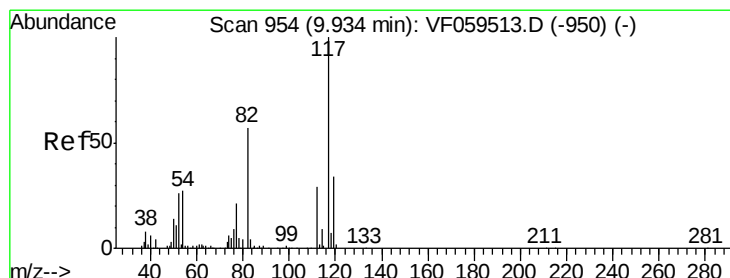
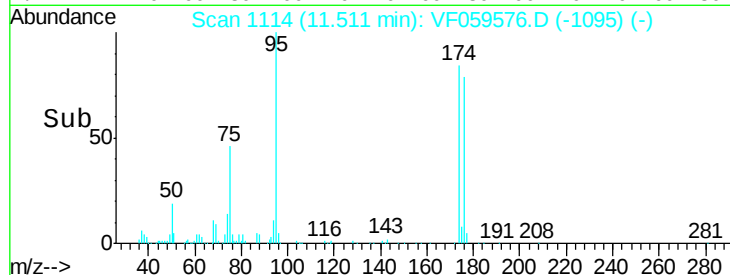
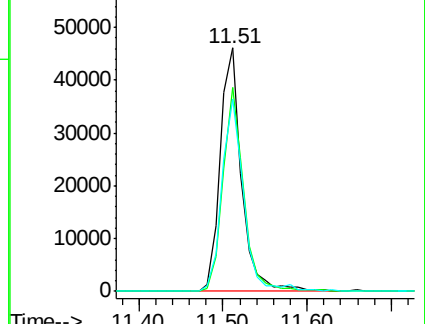
176 78.9 0.0 169.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

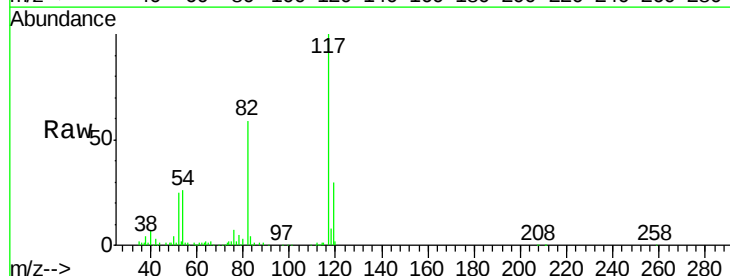
Tgt Ion: 117 Resp: 191262

Ion Ratio Lower Upper

117 100

82 58.8 46.1 69.1

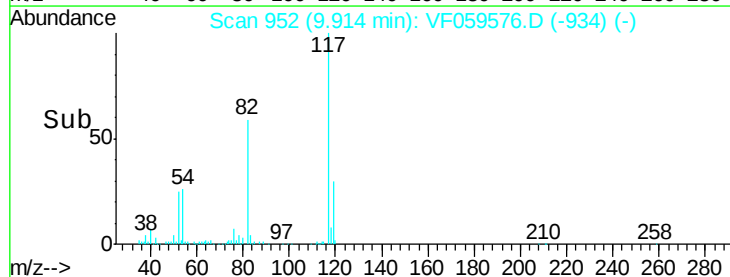
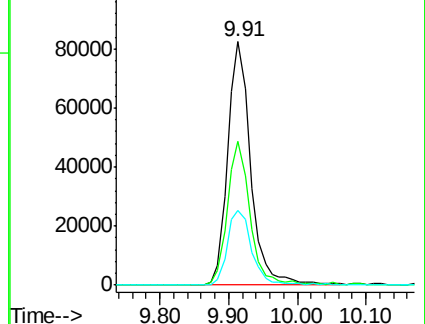
119 30.5 27.2 40.8

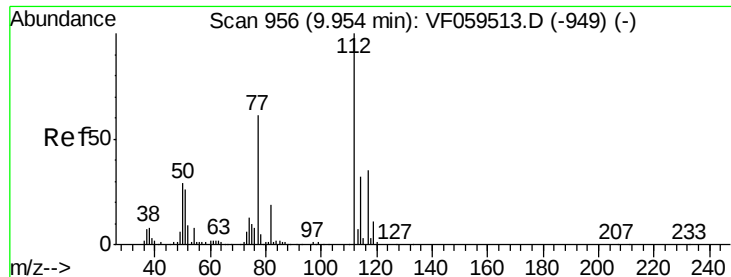


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

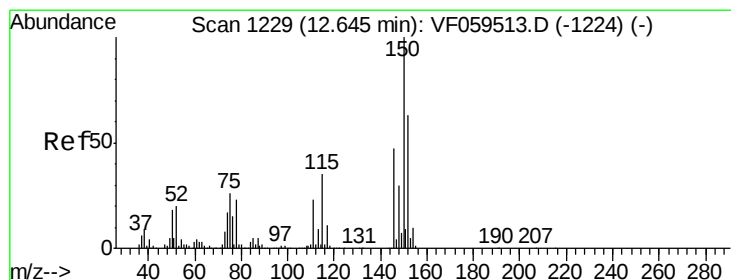
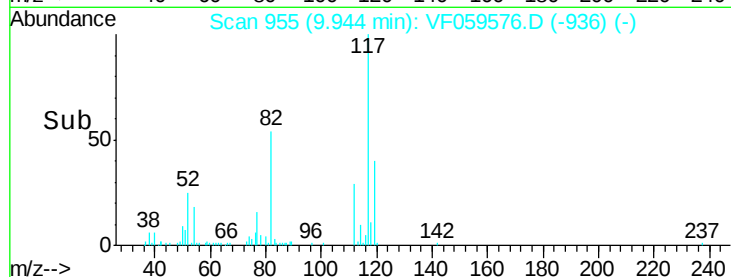
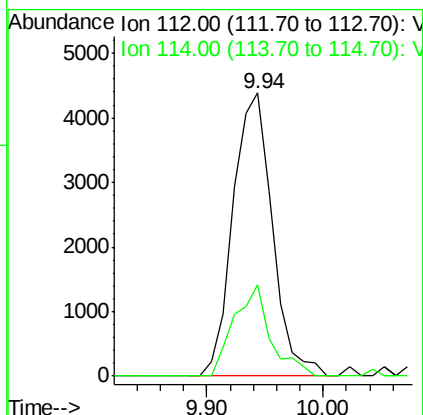
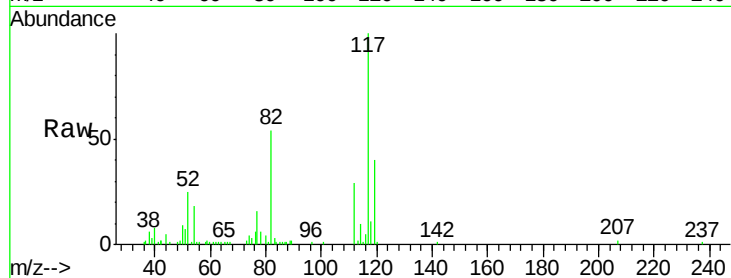




#65
Chlorobenzene
Concen: 2.863 ug/l
RT: 9.94 min Scan# 955
Delta R.T. -0.01 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

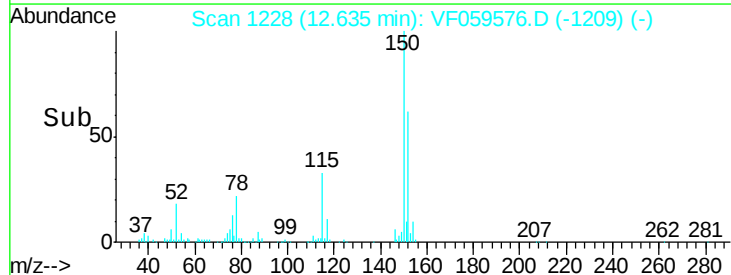
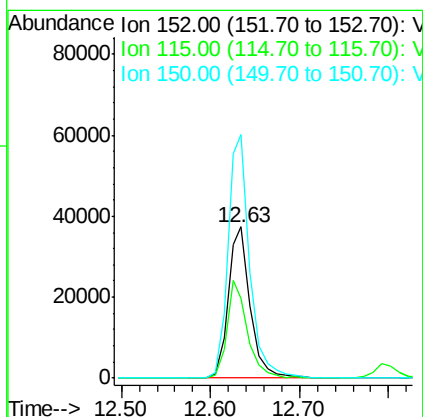
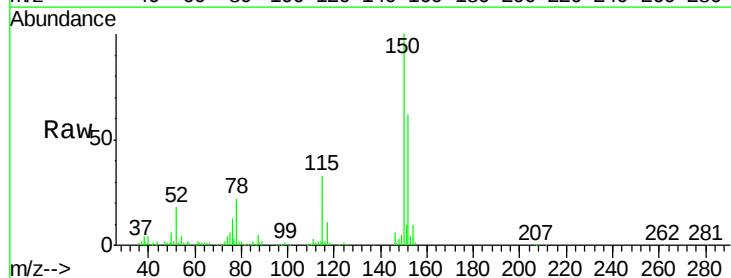
Instrument :
MSVOA_F
ClientSampleId :

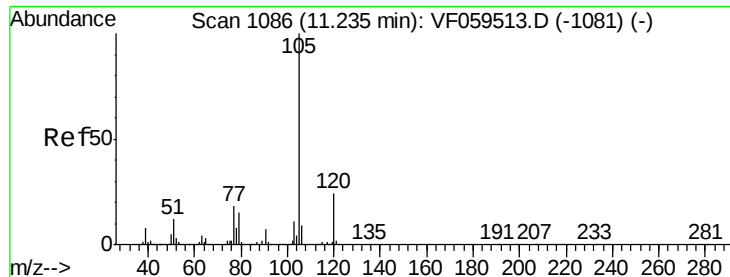
Tot Ion:112 Resp: 10271
Ion Ratio Lower Upper
112 100
114 32.4 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.01 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

Tgt Ion:152 Resp: 64938
Ion Ratio Lower Upper
152 100
115 52.7 27.8 83.3
150 161.2 0.0 318.4





#73

Isopropylbenzene

Concen: 1.065 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

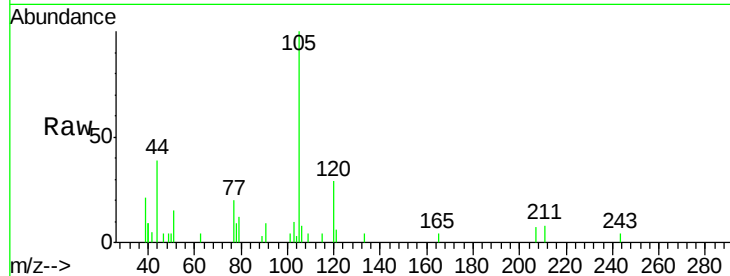
ClientSampleId :

Tot Ion:105 Resp: 4364

Ion Ratio Lower Upper

105 100

120 29.0 12.0 36.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

3000

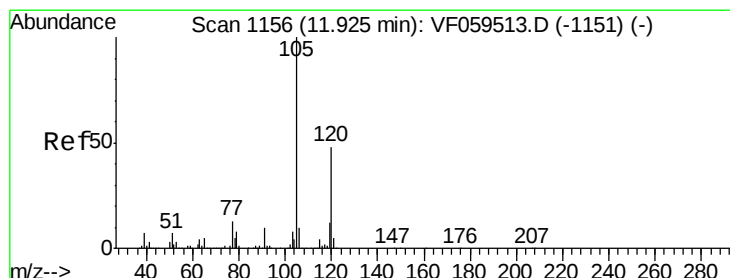
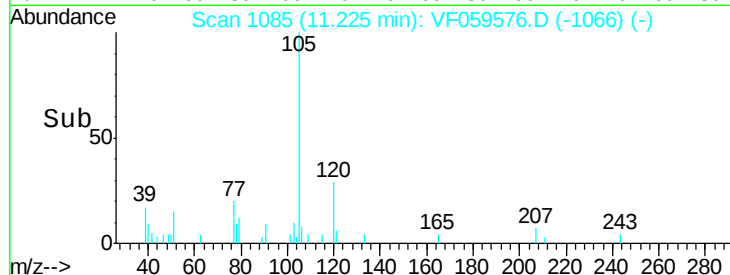
2000

1000

0

Time-->

11.20 11.30



#80

1,3,5-Trimethylbenzene

Concen: 2.927 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.02 min

Lab File: VF059576.D

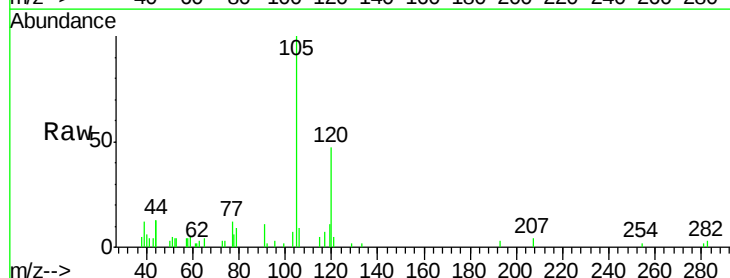
Acq: 20 Jul 2018 1:03

Tgt Ion:105 Resp: 10049

Ion Ratio Lower Upper

105 100

120 47.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.91

6000

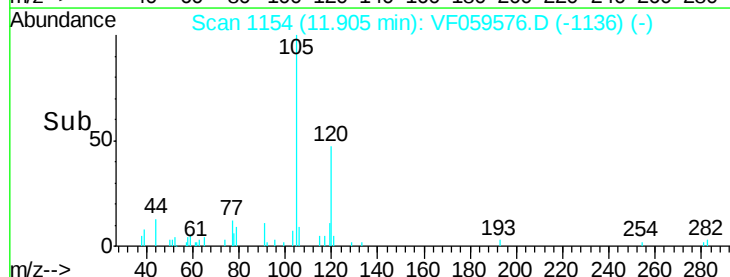
4000

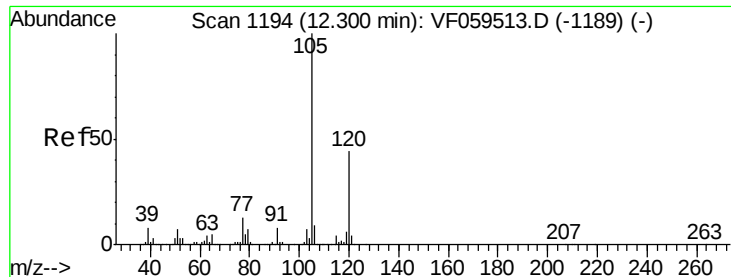
2000

0

Time-->

11.85 11.90 11.95





#84

1,2,4-Trimethylbenzene

Concen: 1.658 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

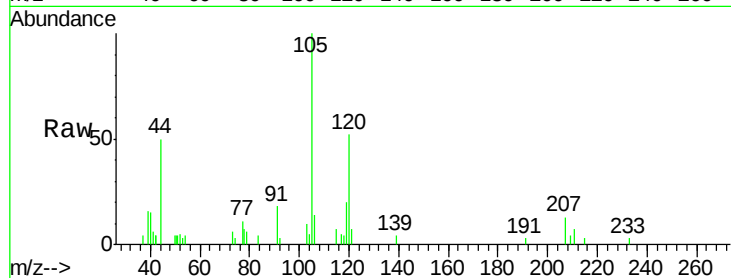
ClientSampled :

Tot Ion:105 Resp: 5858

Ion Ratio Lower Upper

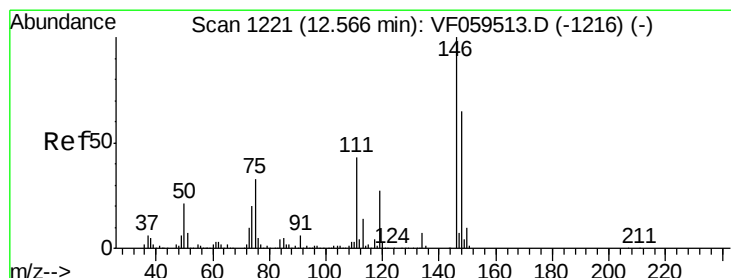
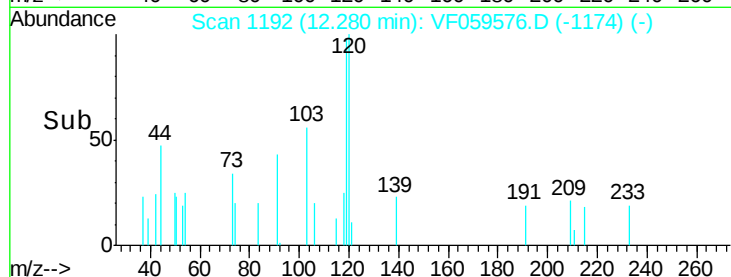
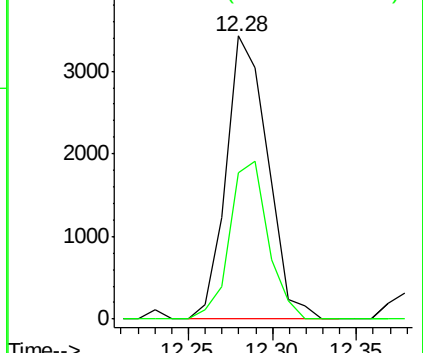
105 100

120 51.6 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#87

1,3-Dichlorobenzene

Concen: 3.748 ug/l

RT: 12.64 min Scan# 1229

Delta R.T. 0.08 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

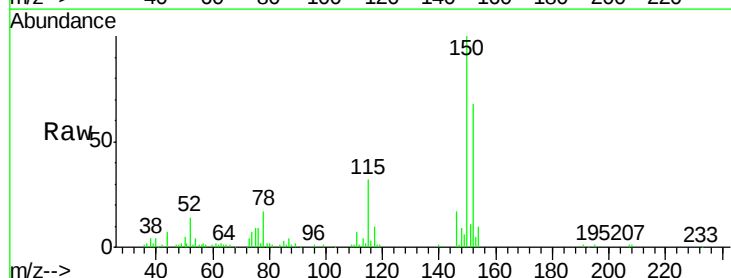
Tgt Ion:146 Resp: 7386

Ion Ratio Lower Upper

146 100

111 38.2 21.4 64.3

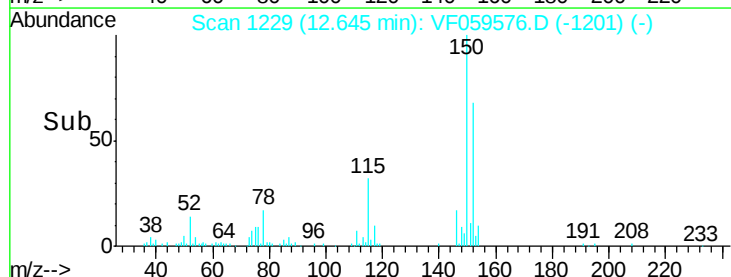
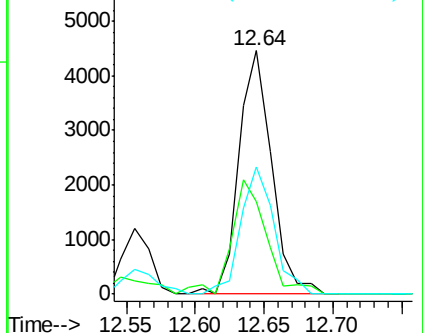
148 52.3 32.7 98.1

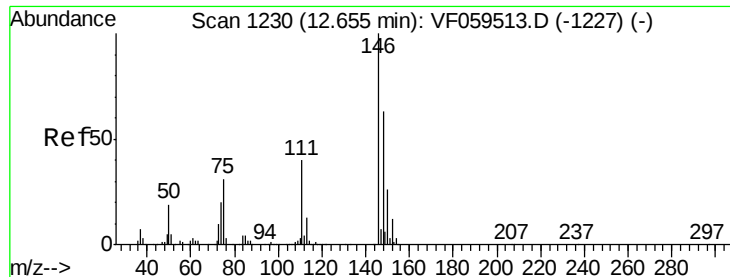


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#88

1,4-Dichlorobenzene

Concen: 3.804 ug/l

RT: 12.64 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VF059576.D

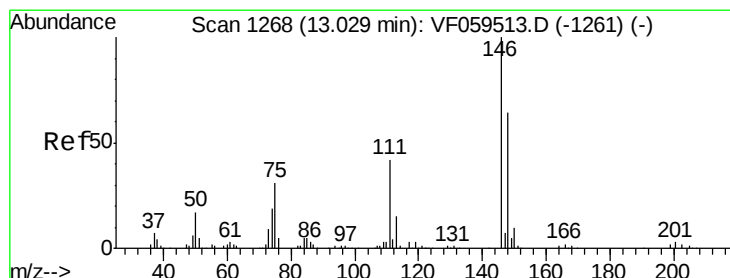
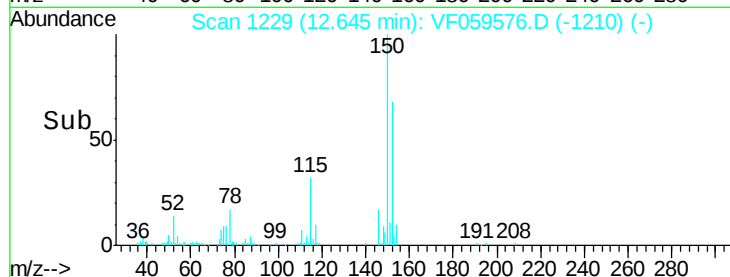
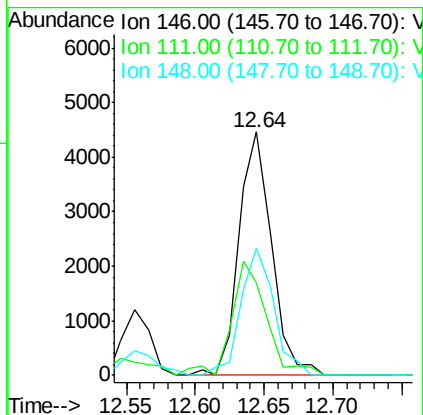
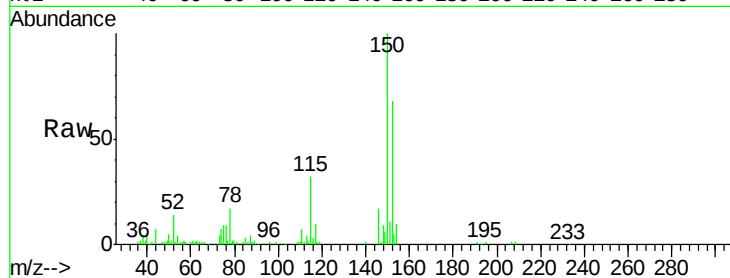
Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:146	Resp:	7386
Ion	Ratio	Lower Upper
146	100	
111	38.2	20.0 59.9
148	52.3	31.5 94.5



#91

1,2-Dichlorobenzene

Concen: 4.076 ug/l

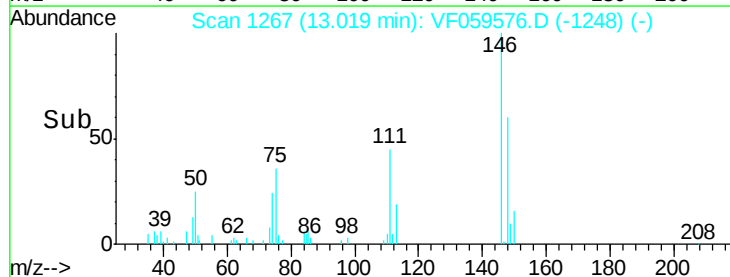
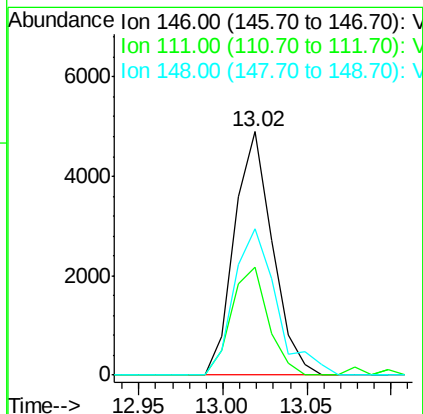
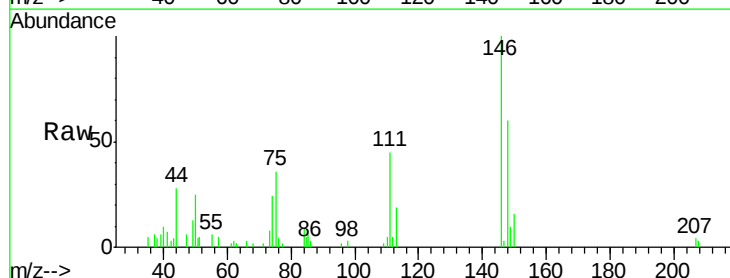
RT: 13.02 min Scan# 1267

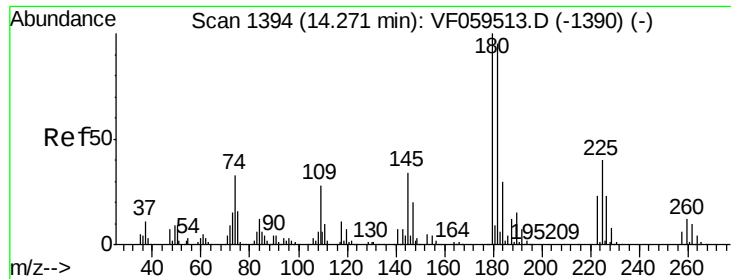
Delta R.T. -0.01 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Tgt Ion:146	Resp:	7681
Ion	Ratio	Lower Upper
146	100	
111	44.6	21.1 63.1
148	59.9	32.3 96.8

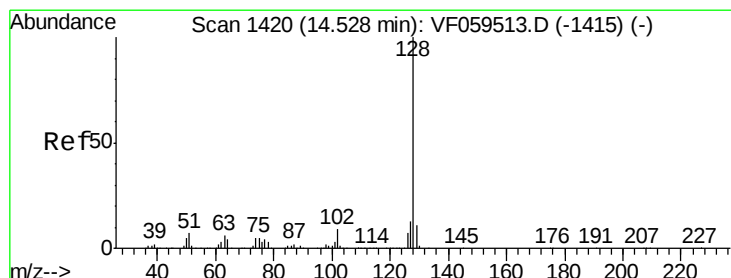
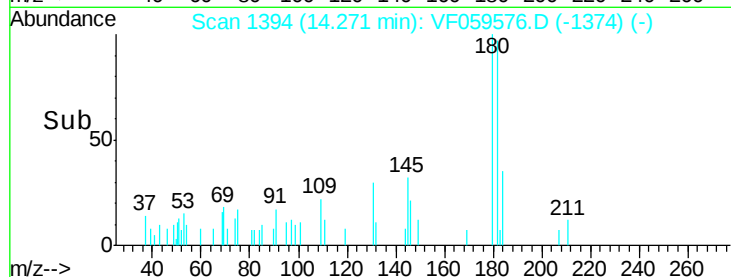
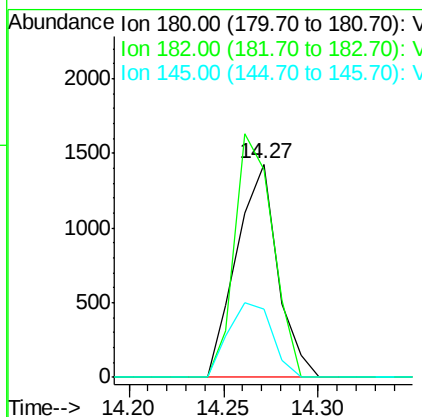
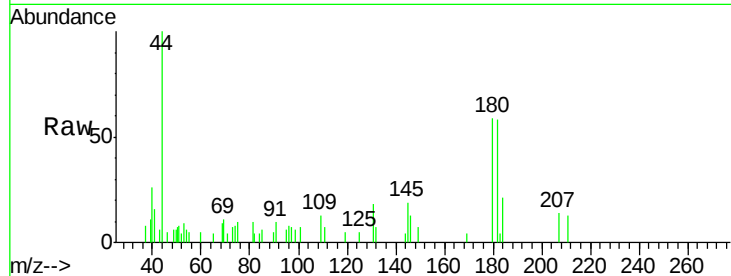




#93
 1,2,4-Trichlorobenzene
 Concen: 1.885 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF059576.D
 Acq: 20 Jul 2018 1:03

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.5	142.5
145	32.2	17.3	51.7



#95
 Naphthalene
 Concen: 6.962 ug/l
 RT: 14.53 min Scan# 1420
 Delta R.T. -0.00 min
 Lab File: VF059576.D
 Acq: 20 Jul 2018 1:03

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	9.7	9.0	13.4

