

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059447.D
 Acq On : 5 Jul 2018 21:18
 Operator : VA/AP
 Sample : J3855-03
 Misc : 6.02g/5mL/MSVOA-F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:07:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	194770	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.73	114	299063	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.89	117	304892	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	202763	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	153303	60.92	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	121.84%	
35) Dibromofluoromethane	4.26	113	127628	58.41	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	116.82%	
50) Toluene-d8	7.67	98	267672	49.48	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	11.49	95	165220	54.14	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	108.28%	

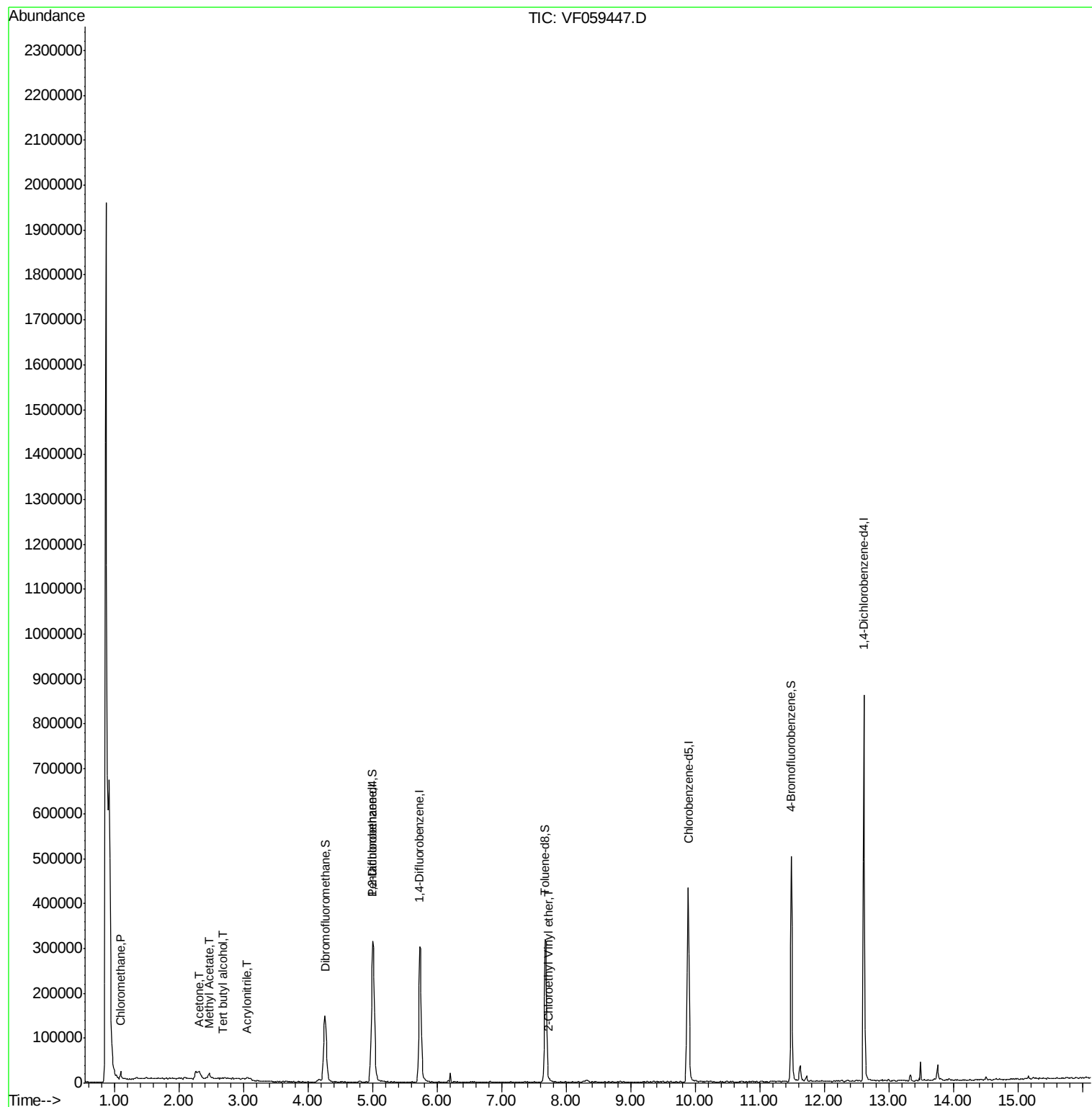
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1500	1.255	ug/l #	76
5) Bromomethane	1.32	94	426	Below Cal	#	4
11) Tert butyl alcohol	2.66	59	871	5.199	ug/l #	66
13) Acrolein	2.15	56	611	Below Cal		88
15) Acrylonitrile	3.05	53	900	3.051	ug/l #	21
16) Acetone	2.32	43	11131	7.832	ug/l #	87
18) Methyl Acetate	2.47	43	5509	3.774	ug/l #	88
20) Methylene Chloride	2.27	84	5713	Below Cal	#	85
25) 2-Butanone	4.48	43	350	Below Cal	#	59
28) Bromochloromethane	3.83	49	61	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	1434	Below Cal	#	46
37) Ethyl Acetate	4.26	43	429	Below Cal	#	19
49) 1,4-Dioxane	6.71	88	109	Below Cal	#	20
58) 2-Chloroethyl Vinyl ether	7.73	63	221	1.413	ug/l	100
59) 2-Hexanone	9.55	43	674	Below Cal	#	30
87) 1,3-Dichlorobenzene	12.54	146	252	Below Cal	#	67

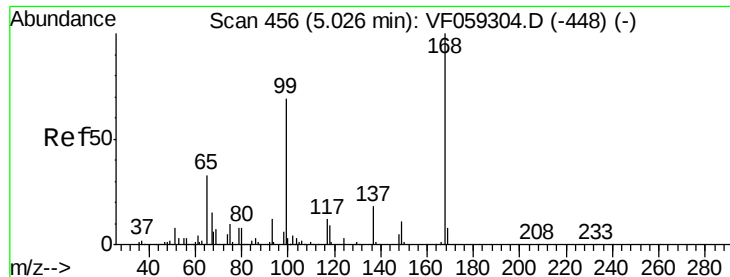
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

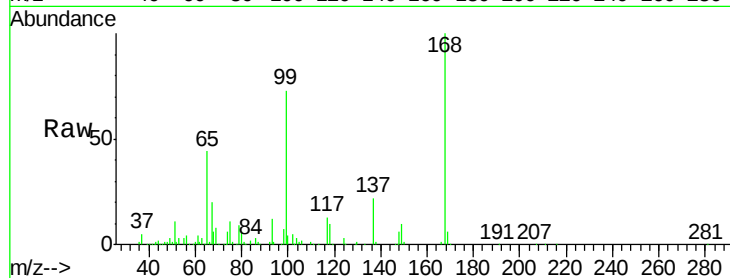
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 194770

Ion Ratio Lower Upper

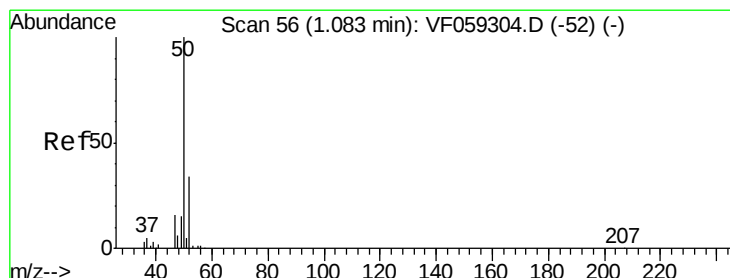
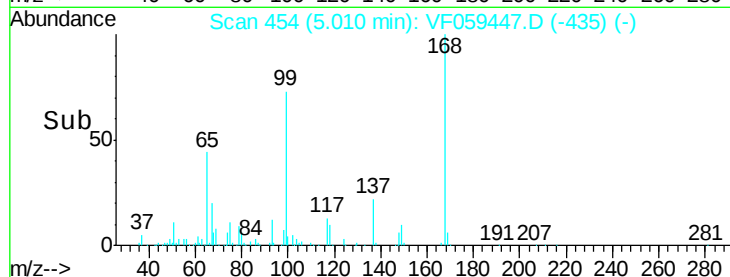
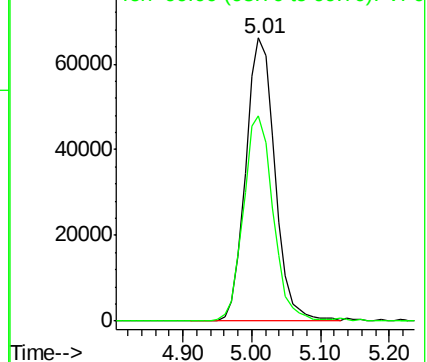
168 100

99 72.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.255 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059447.D

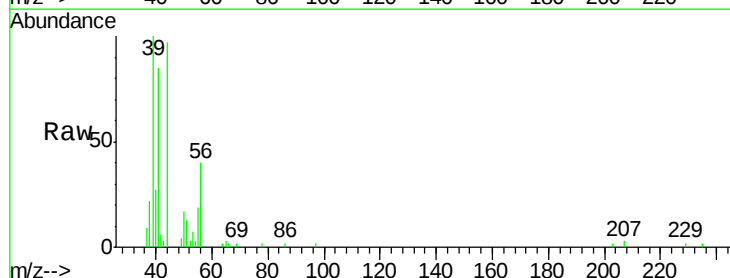
Acq: 5 Jul 2018 21:18

Tgt Ion: 50 Resp: 1500

Ion Ratio Lower Upper

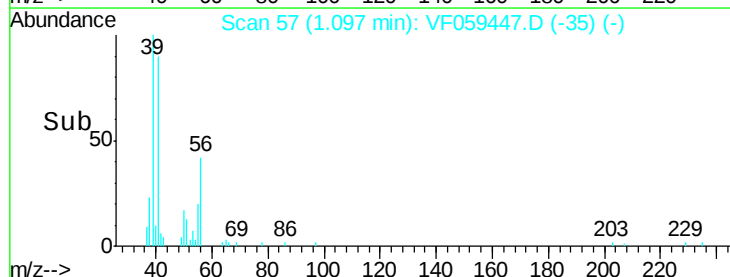
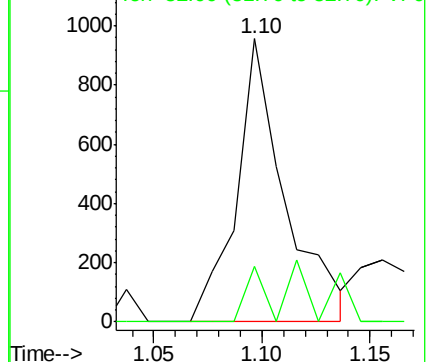
50 100

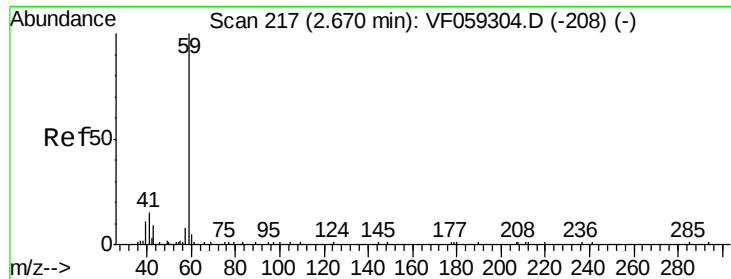
52 19.7 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



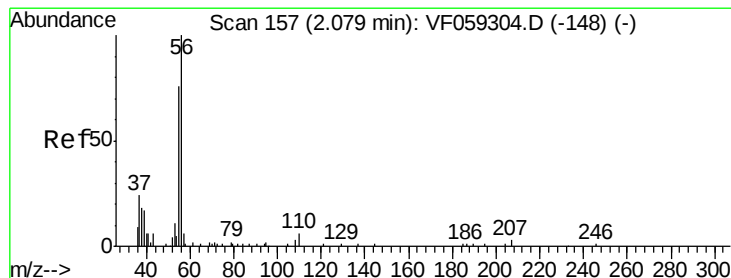
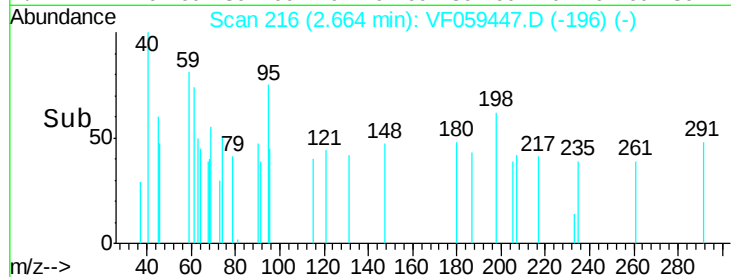
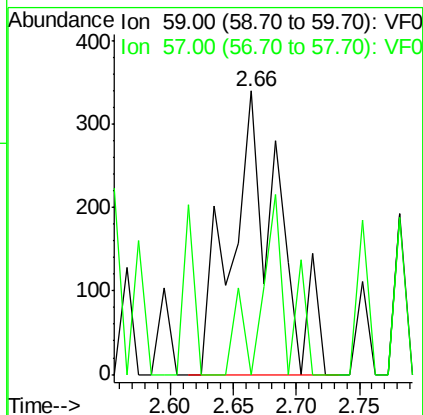
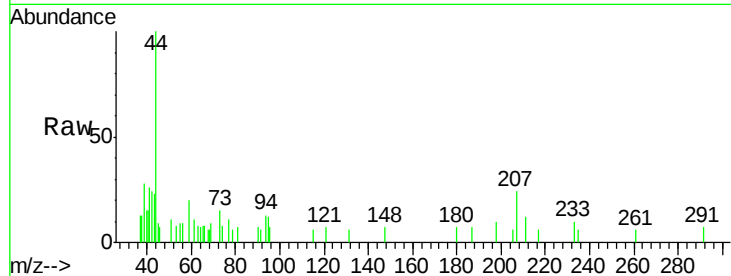


#11

Tert butyl alcohol
Concen: 5.199 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

Instrument :
MSVOA_F
ClientSampled :

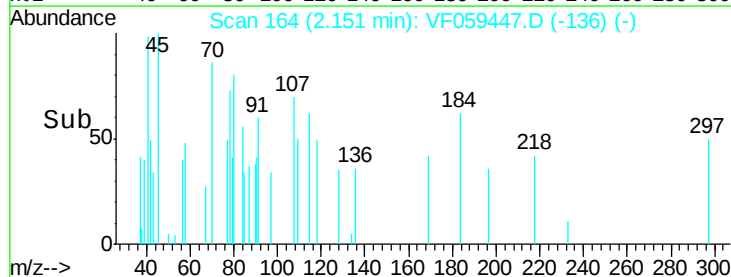
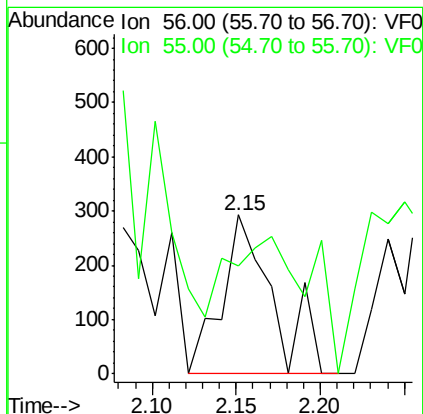
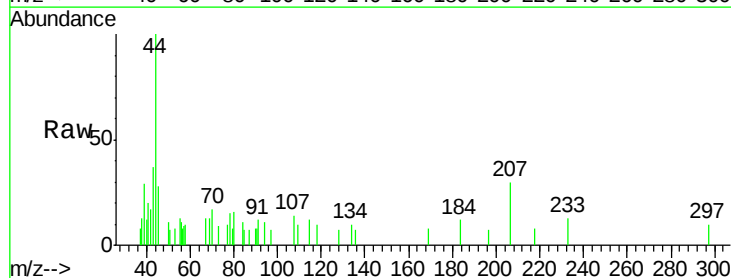
Tot Ion: 59 Resp: 871
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#

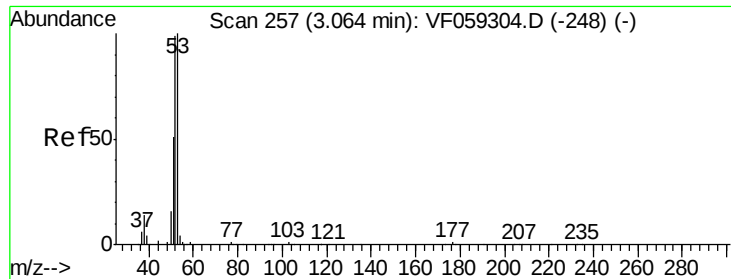


#13

Acrolein
Concen: Below Cal
RT: 2.15 min Scan# 164
Delta R.T. 0.07 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

Tgt Ion: 56 Resp: 611
Ion Ratio Lower Upper
56 100
55 67.9 62.4 93.6





#15

Acrylonitrile

Concen: 3.051 ug/l

RT: 3.05 min Scan# 255

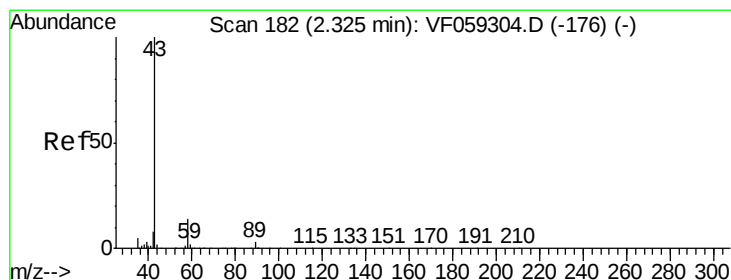
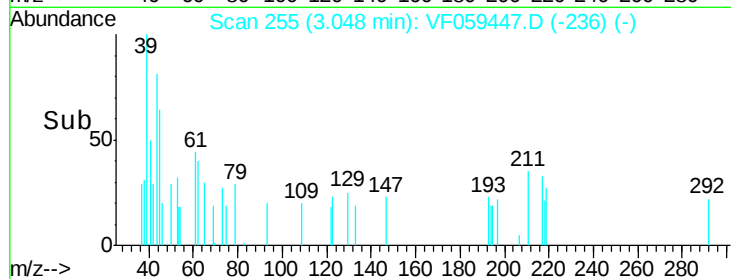
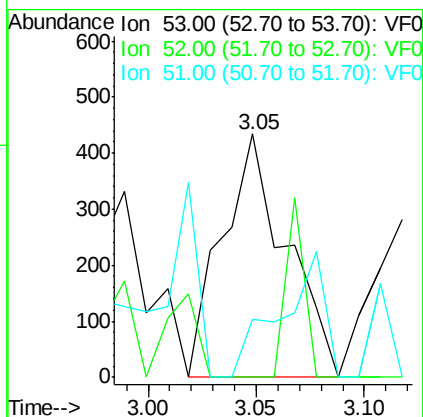
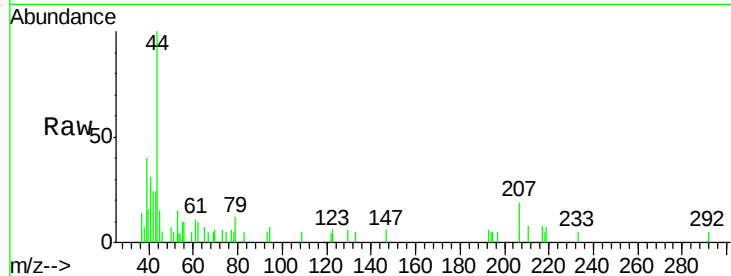
Delta R.T. -0.02 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	53	Resp:	900
Ion	Ratio	Lower	Upper
53	100		
52	0.0	79.2	118.8#
51	24.0	40.9	61.3#



#16

Acetone

Concen: 7.832 ug/l

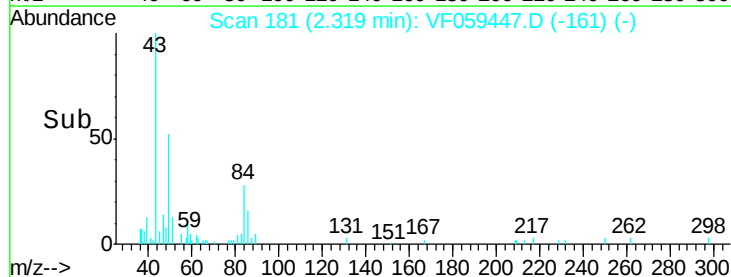
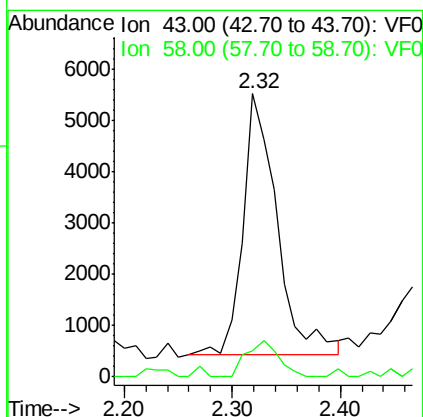
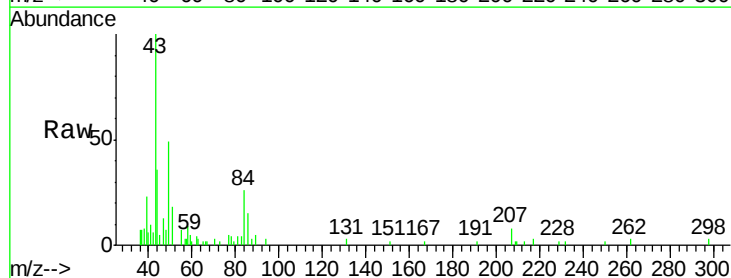
RT: 2.32 min Scan# 181

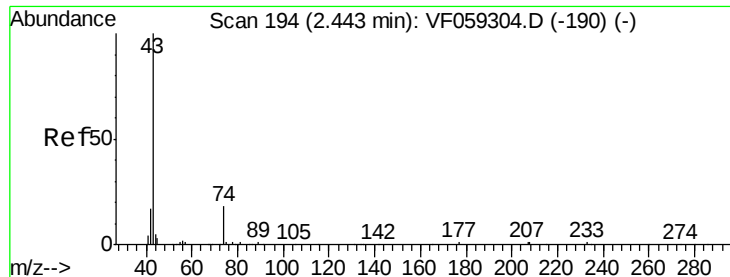
Delta R.T. -0.01 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

Tgt Ion:	43	Resp:	11131
Ion	Ratio	Lower	Upper
43	100		
58	9.0	11.4	17.0#

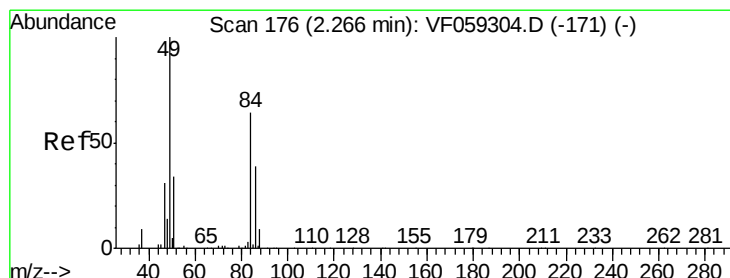
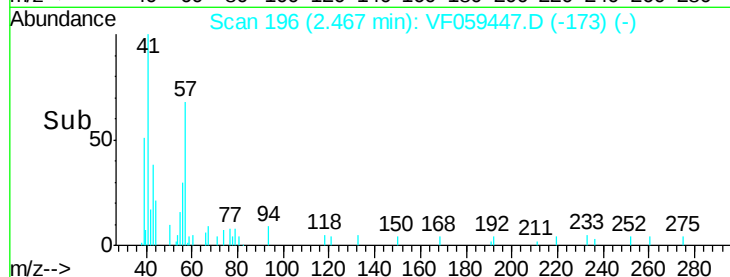
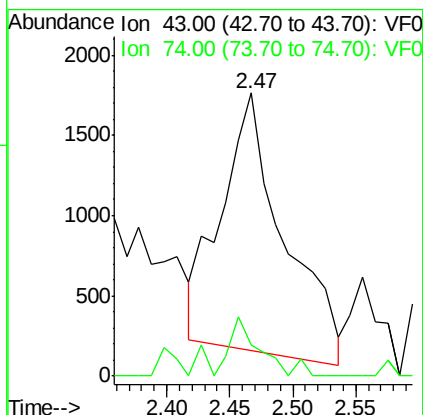
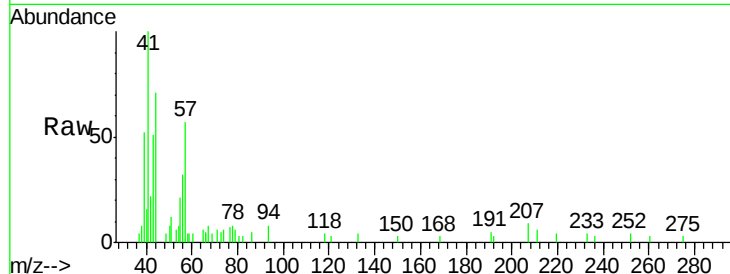




#18
Methyl Acetate
Concen: 3.774 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

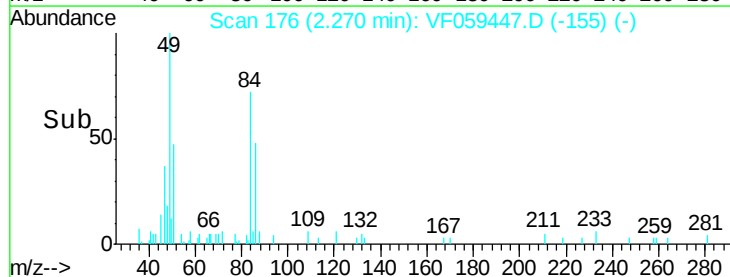
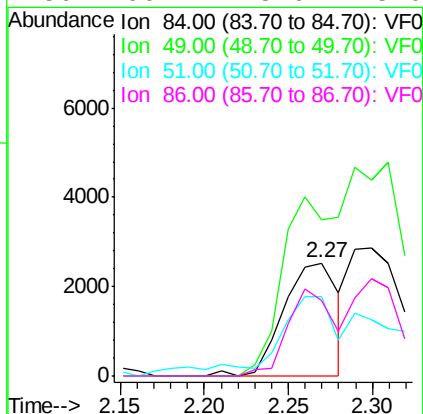
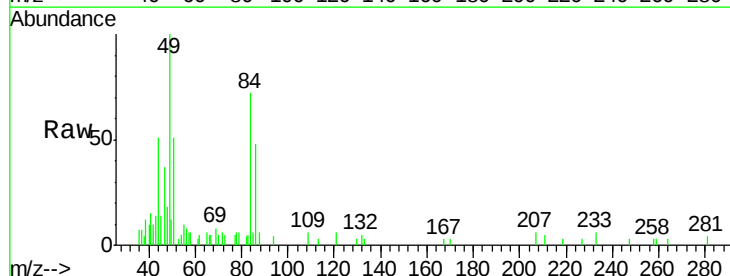
Instrument :
MSVOA_F
ClientSampleId :

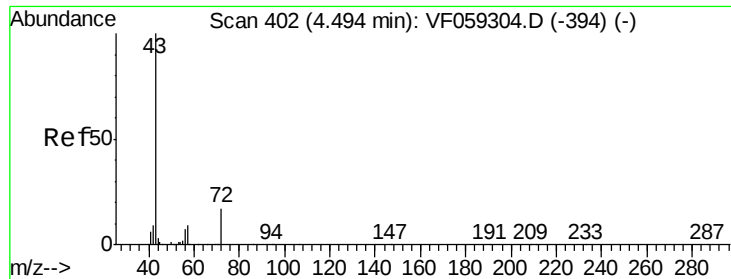
Tot Ion: 43 Resp: 5509
Ion Ratio Lower Upper
43 100
74 11.2 13.3 19.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

Tgt Ion: 84 Resp: 5713
Ion Ratio Lower Upper
84 100
49 138.0 126.5 189.7
51 70.3 42.9 64.3#
86 66.4 48.6 73.0





#25

2-Butanone

Concen: Below Cal

RT: 4.48 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

Instrument :

MSVOA_F

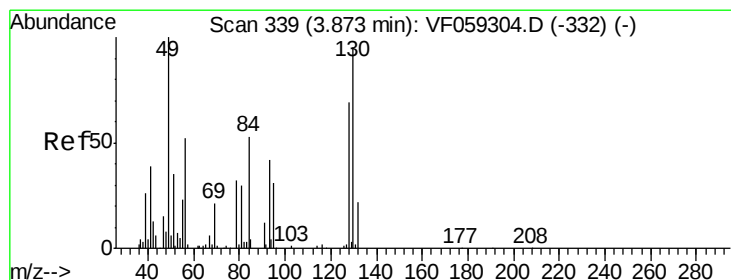
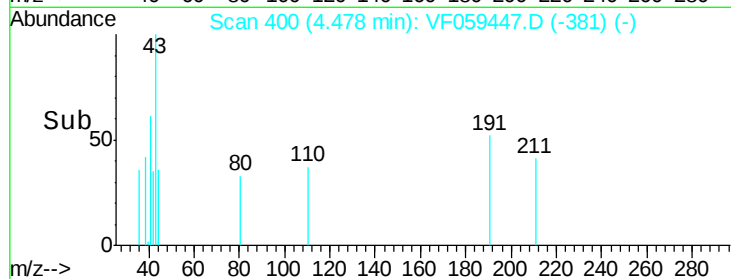
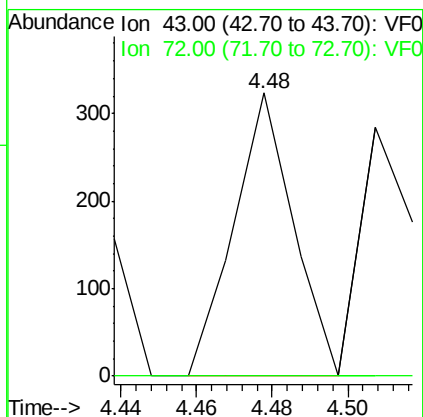
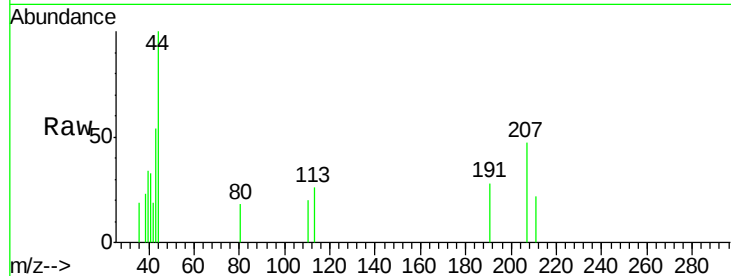
ClientSampleId :

Tot Ion: 43 Resp: 350

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.83 min Scan# 334

Delta R.T. -0.04 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

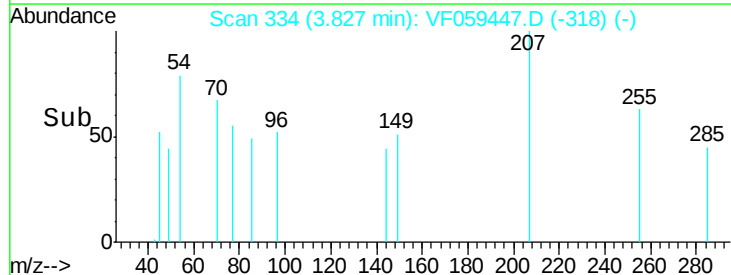
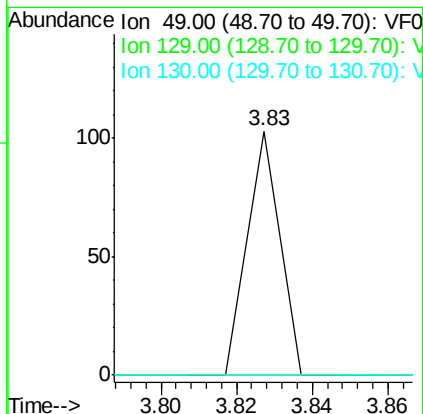
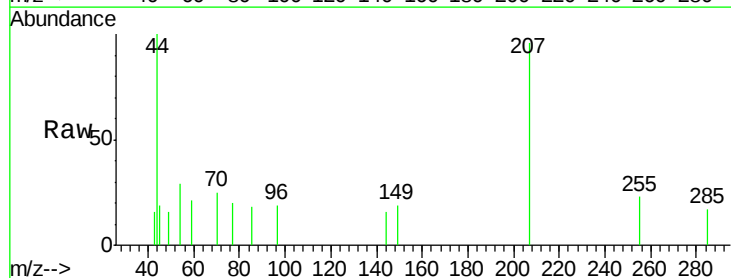
Tgt Ion: 49 Resp: 61

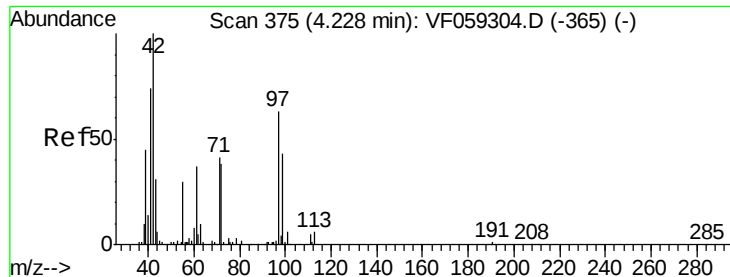
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

130 0.0 75.1 112.7#

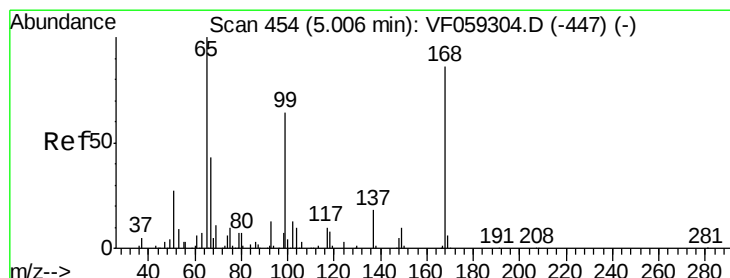
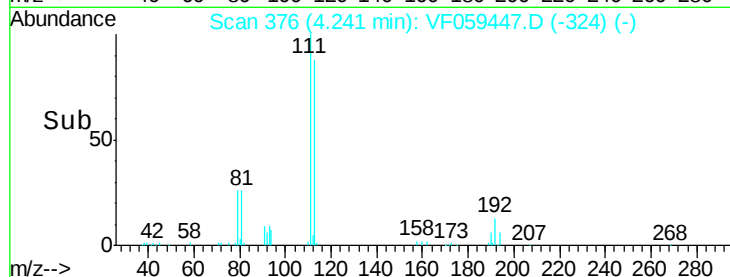
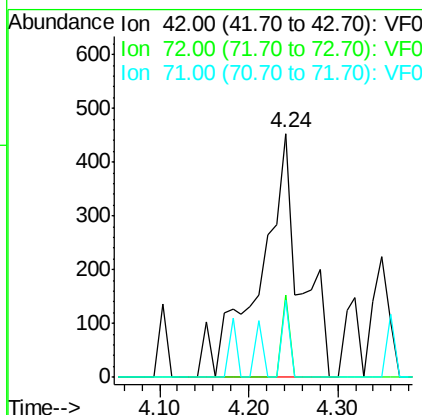
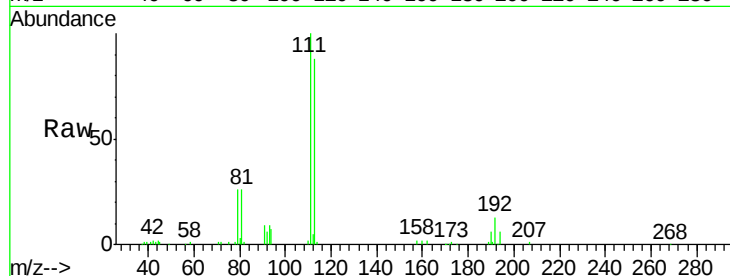




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.24 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

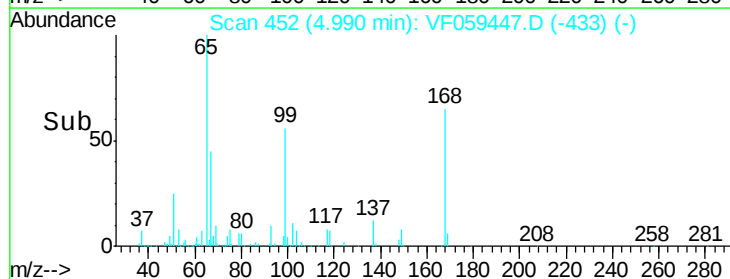
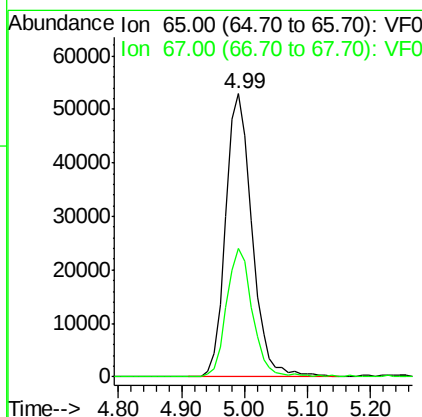
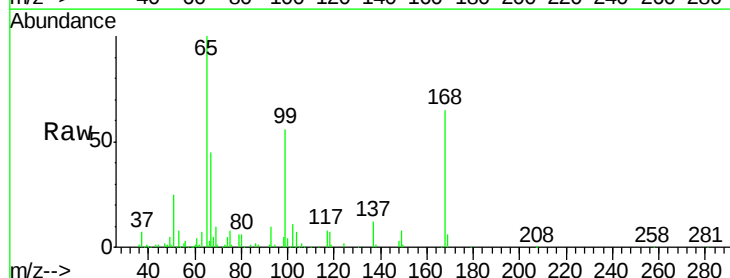
Instrument :
MSVOA_F
ClientSampleId :

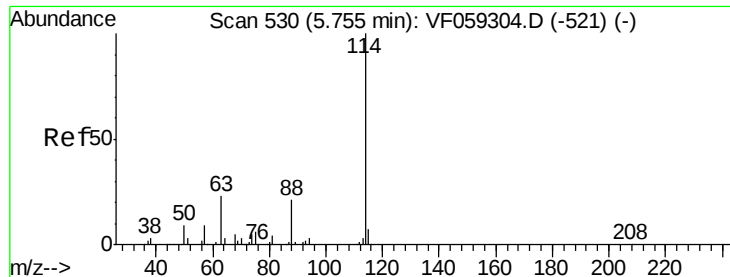
Tot Ion	Ratio	Lower	Upper
42	100		
72	6.3	30.5	45.7#
71	5.9	32.5	48.7#



#33
1,2-Dichloroethane-d4
Concen: 60.921 ug/l
RT: 4.99 min Scan# 452
Delta R.T. -0.02 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

Tgt Ion	Ratio	Lower	Upper
65	100		
67	45.3	0.0	96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 527

Delta R.T. -0.03 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

Instrument :

MSVOA_F

ClientSampleId :

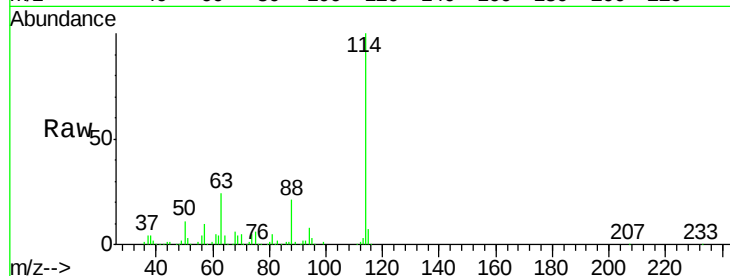
Tot Ion:114 Resp: 299063

Ion Ratio Lower Upper

114 100

63 24.2 0.0 45.8

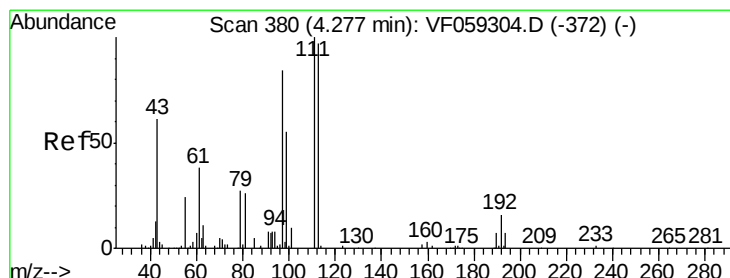
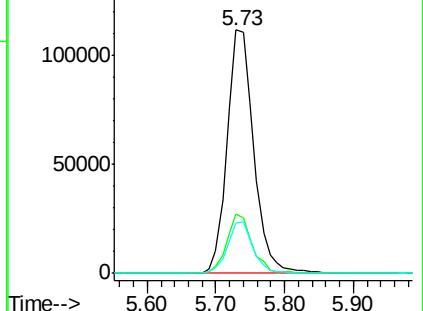
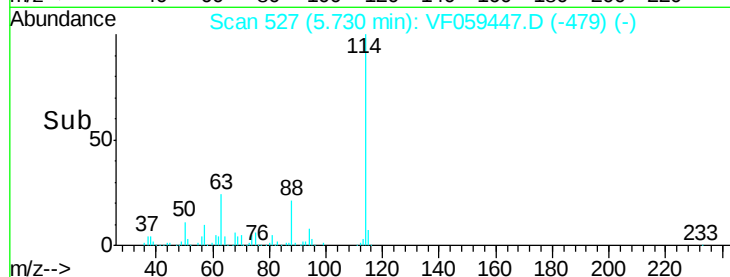
88 20.5 0.0 41.2



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: 58.407 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

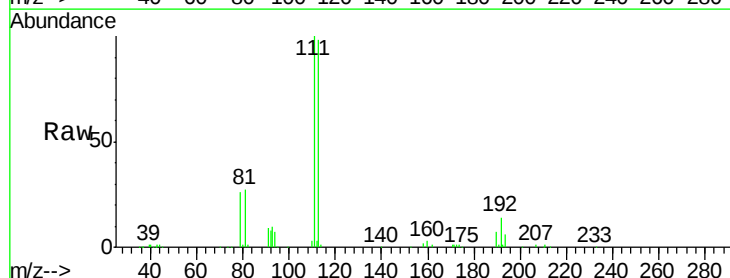
Tgt Ion:113 Resp: 127628

Ion Ratio Lower Upper

113 100

111 101.0 82.1 123.1

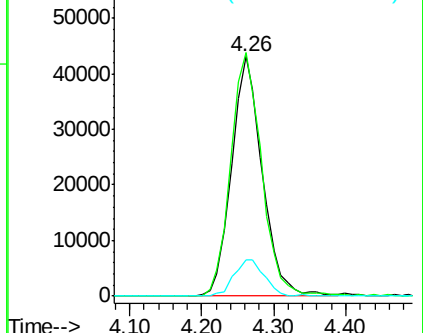
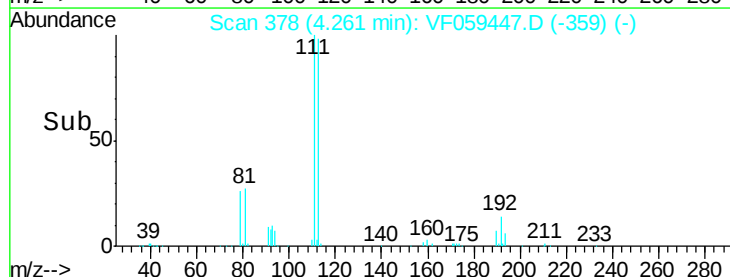
192 15.2 13.0 19.6

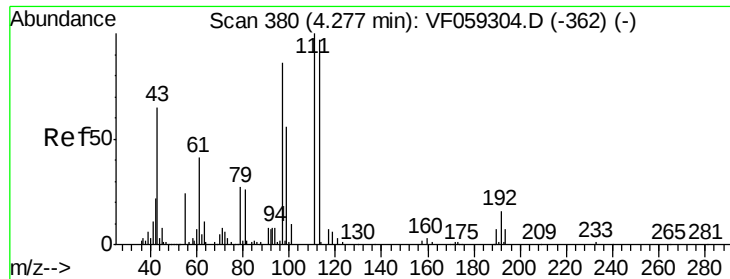


Abundance Ion 113.00 (112.70 to 113.70): V

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: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

Instrument :

MSVOA_F

ClientSampled :

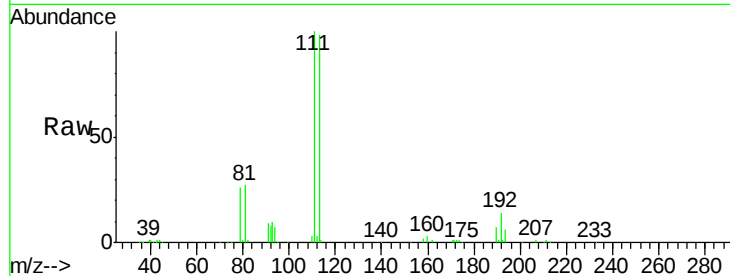
Tot Ion: 43 Resp: 429

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

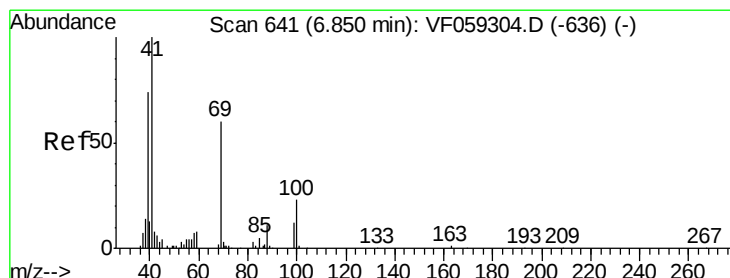
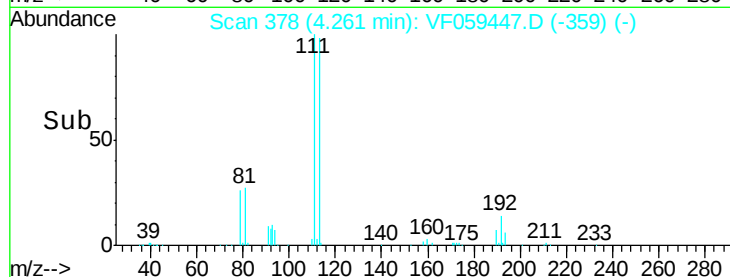
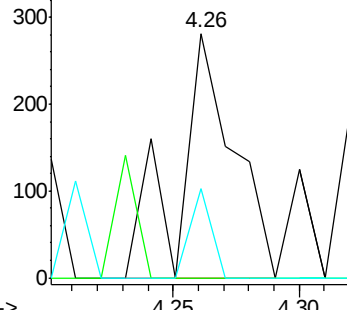
70 36.3 6.2 9.4#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.71 min Scan# 626

Delta R.T. -0.14 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

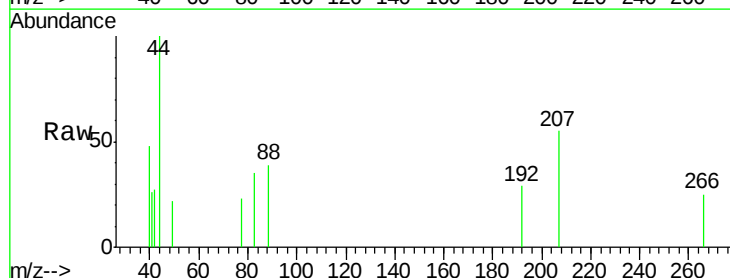
Tgt Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

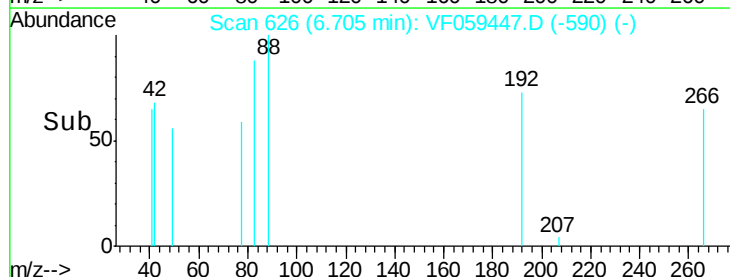
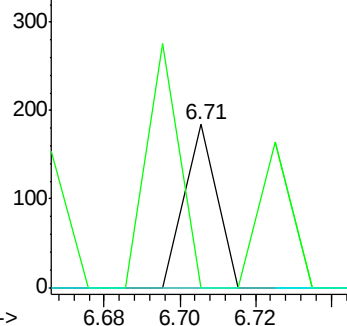
58 0.0 46.6 69.8#

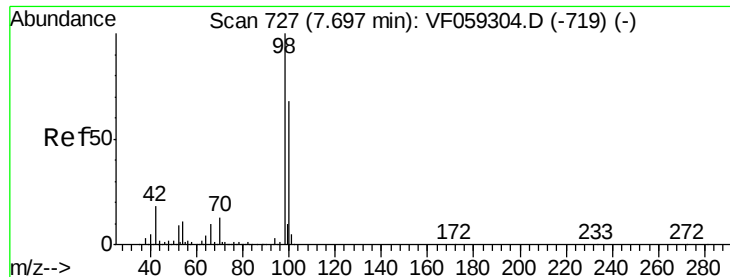


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 49.475 ug/l

RT: 7.67 min Scan# 724

Delta R.T. -0.03 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

Instrument :

MSVOA_F

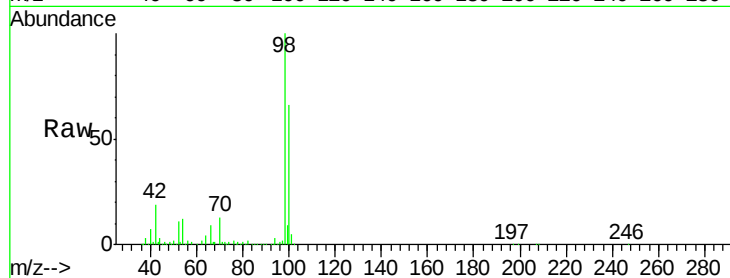
ClientSampleId :

Tot Ion: 98 Resp: 267672

Ion Ratio Lower Upper

98 100

100 65.7 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.67

120000

100000

80000

60000

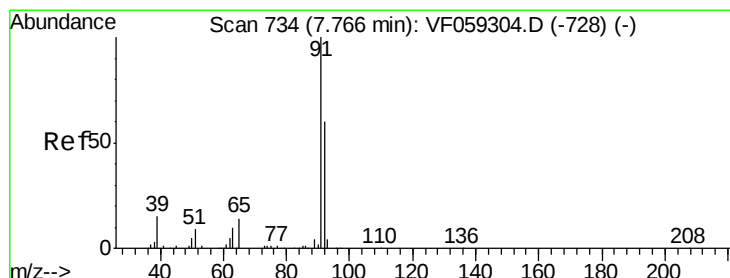
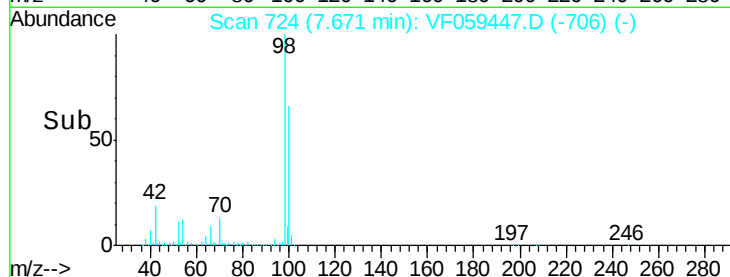
40000

20000

0

7.60 7.70 7.80

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.413 ug/l

RT: 7.73 min Scan# 730

Delta R.T. -0.04 min

Lab File: VF059447.D

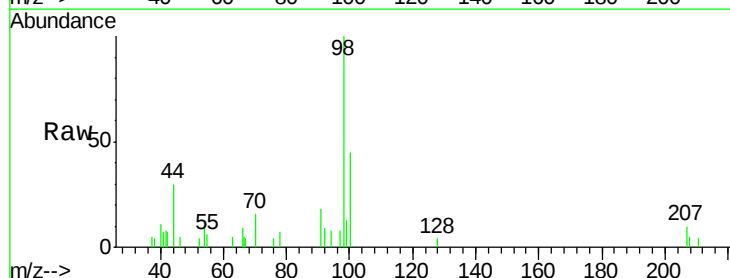
Acq: 5 Jul 2018 21:18

Tgt Ion: 63 Resp: 221

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

400

300

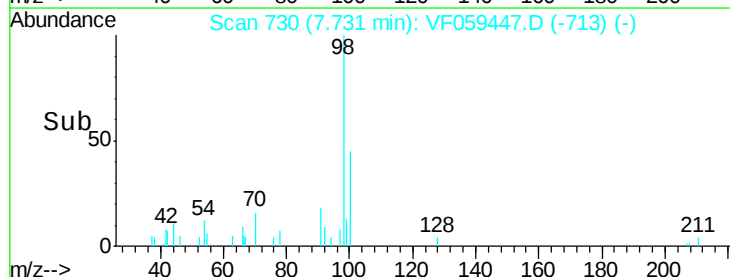
200

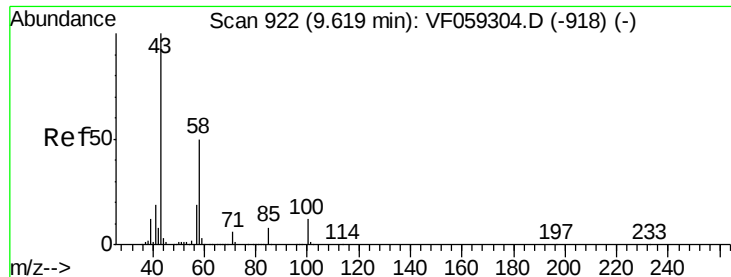
100

0

7.70 7.73 7.75 7.80

Time-->

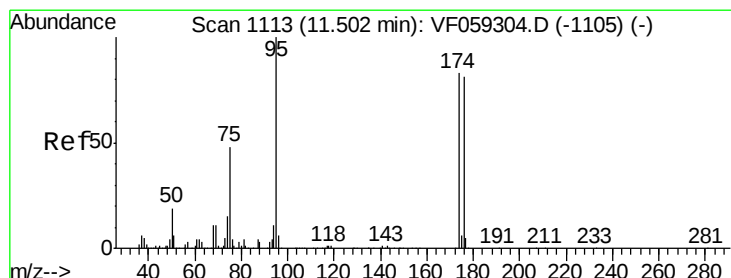
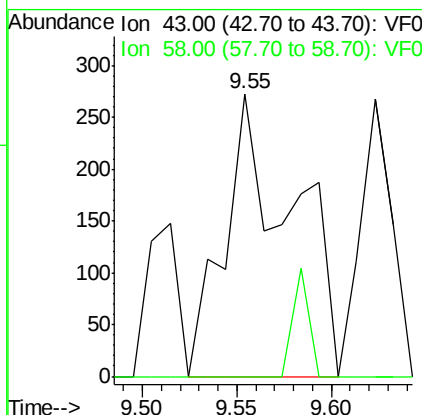
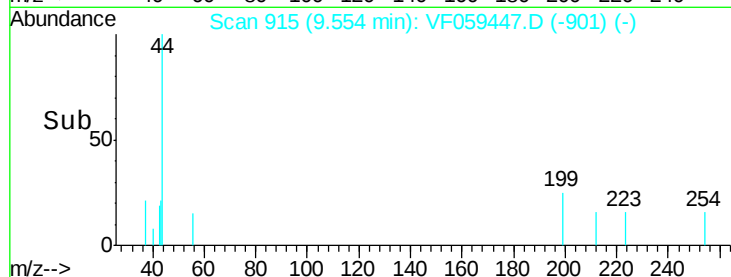
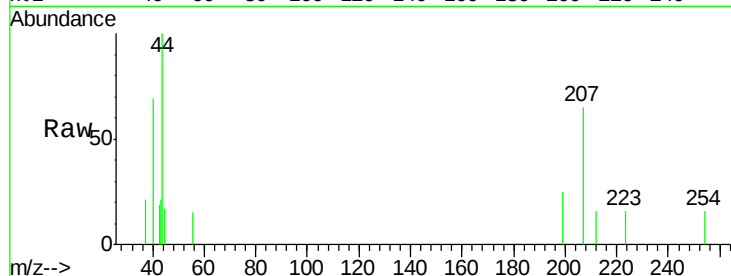




#59
2-Hexanone
Concen: Below Cal
RT: 9.55 min Scan# 915
Delta R.T. -0.06 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

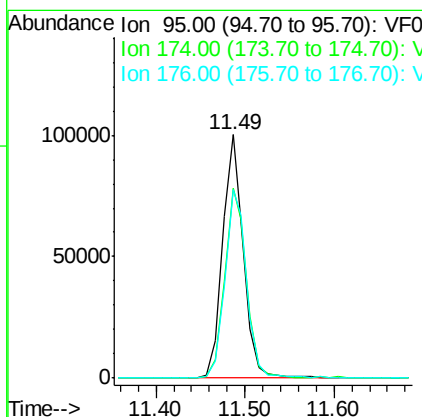
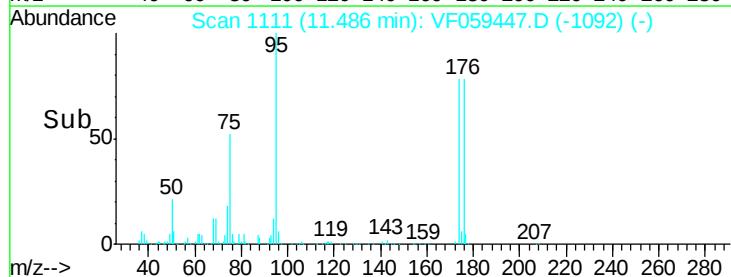
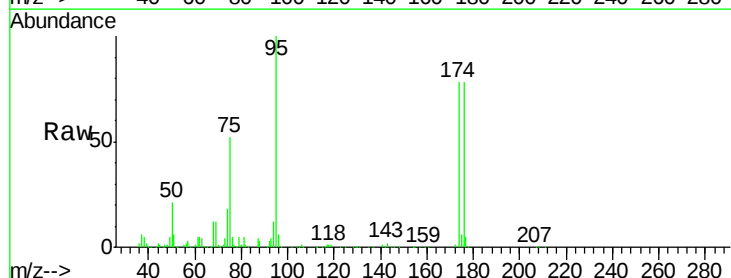
Instrument :
MSVOA_F
ClientSampleId :

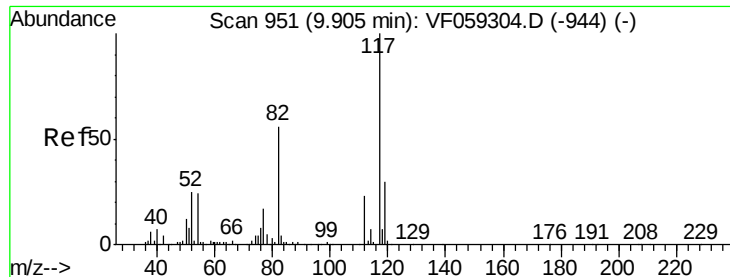
Tot Ion: 43 Resp: 674
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 54.137 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

Tgt Ion: 95 Resp: 165220
Ion Ratio Lower Upper
95 100
174 77.9 0.0 165.2
176 77.6 0.0 161.0

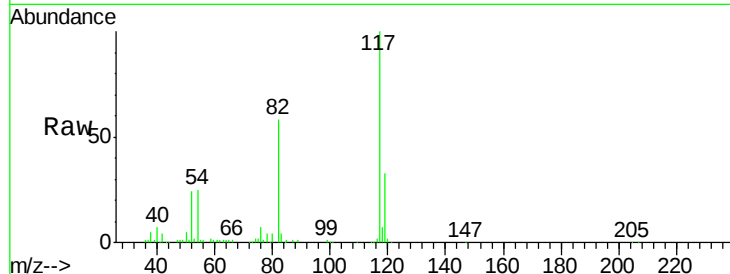




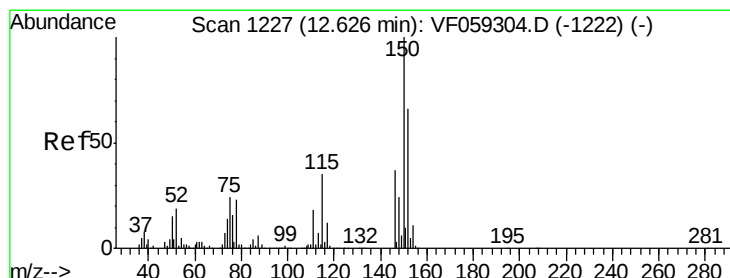
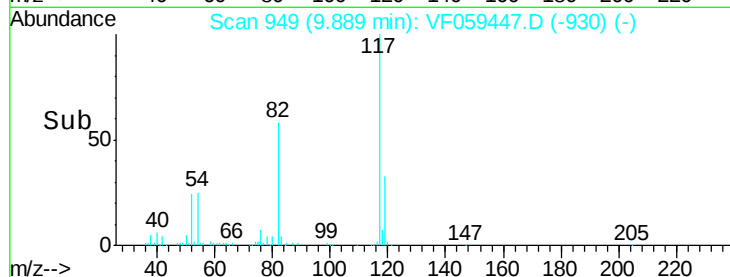
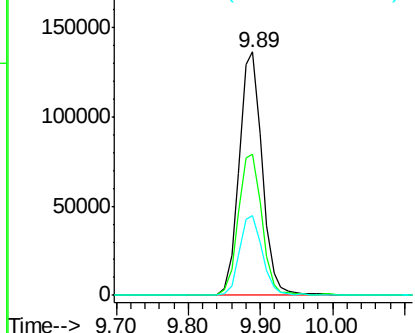
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 304892
Ion Ratio Lower Upper
117 100
82 58.0 44.6 66.8
119 32.8 24.1 36.1

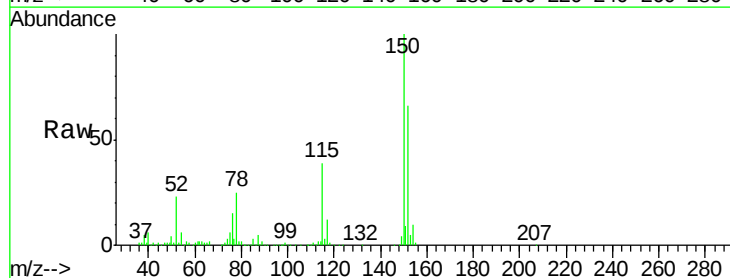


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

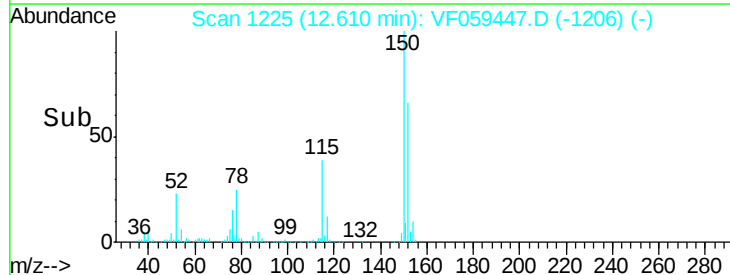
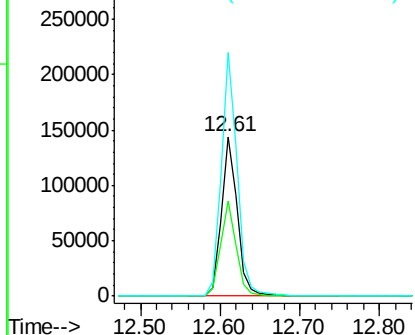


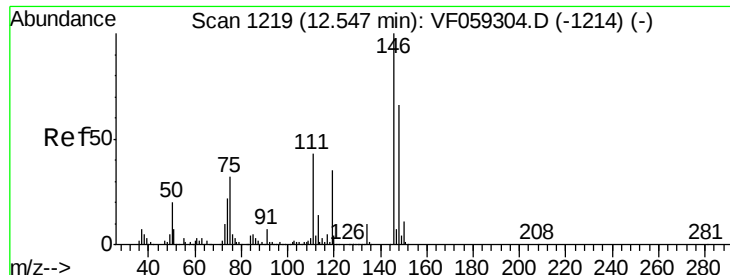
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VF059447.D
Acq: 5 Jul 2018 21:18

Tgt Ion:152 Resp: 202763
Ion Ratio Lower Upper
152 100
115 59.8 27.1 81.3
150 152.5 0.0 305.2



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





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059447.D

Acq: 5 Jul 2018 21:18

Instrument :

MSVOA_F

ClientSampleId :

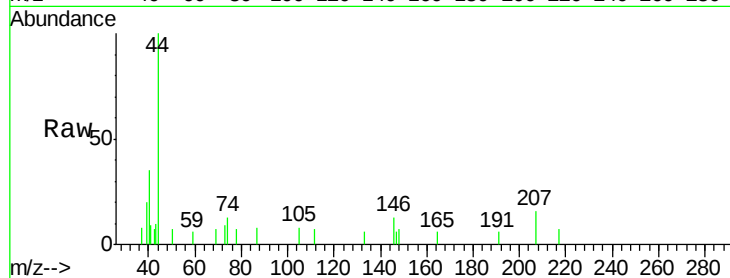
Tot Ion:146 Resp: 252

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

148 57.2 32.8 98.4



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

