

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059569.D
 Acq On : 19 Jul 2018 21:51
 Operator : VA/AP
 Sample : J3828-09
 Misc : 8.62g/5mL/MSVOA F/SOIL
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 04:53:22 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

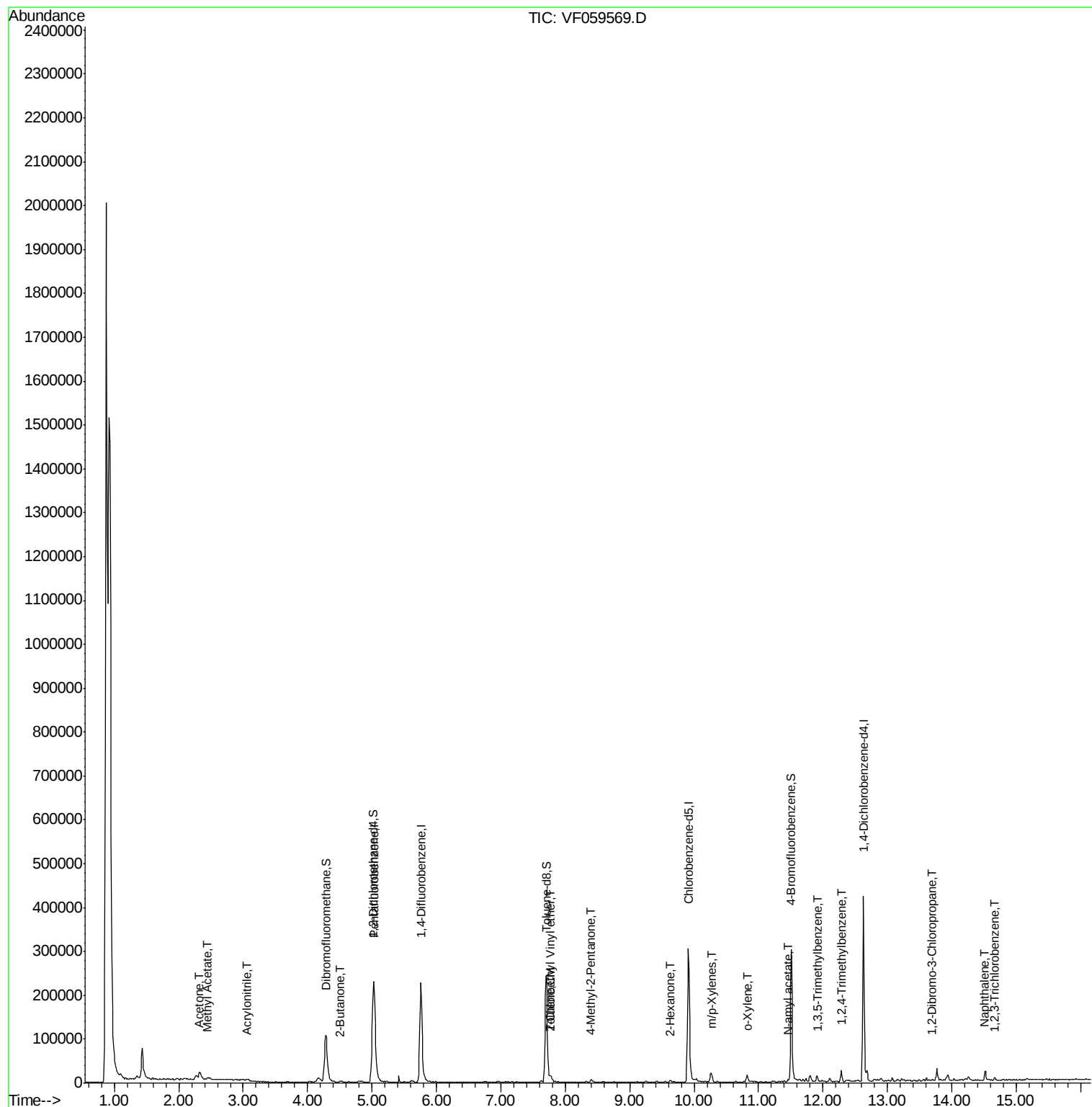
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	163869	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	223658	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	216046	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	111299	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	124443	48.83	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	97.66%	
35) Dibromofluoromethane	4.28	113	98950	51.08	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	102.16%	
50) Toluene-d8	7.70	98	204826	41.98	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	83.96%	
62) 4-Bromofluorobenzene	11.51	95	104333	40.76	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	81.52%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.66	59	548	Below Cal	#	74
13) Acrolein	2.15	56	118	Below Cal		94
15) Acrylonitrile	3.07	53	365	1.707 ug/l	#	6
16) Acetone	2.33	43	27583	50.463 ug/l		97
18) Methyl Acetate	2.44	43	4662	3.158 ug/l	#	88
20) Methylene Chloride	2.27	84	4699	Below Cal		87
25) 2-Butanone	4.52	43	4452	7.524 ug/l	#	88
29) Tetrahydrofuran	4.31	42	1003	Below Cal	#	38
37) Ethyl Acetate	4.29	43	575	Below Cal	#	41
49) 1,4-Dioxane	6.84	88	62	Below Cal	#	56
51) 4-Methyl-2-Pentanone	8.40	43	4814	4.222 ug/l		96
52) Toluene	7.77	92	4970	1.578 ug/l		87
58) 2-Chloroethyl Vinyl ether	7.77	63	1217	9.108 ug/l		100
59) 2-Hexanone	9.62	43	3881	4.503 ug/l		91
68) m/p-Xylenes	10.26	106	6804	2.673 ug/l		89
69) o-Xylene	10.83	106	4496	1.659 ug/l		97
74) N-amyl acetate	11.46	43	3549	1.578 ug/l	#	84
80) 1,3,5-Trimethylbenzene	11.91	105	7245	1.231 ug/l		97
84) 1,2,4-Trimethylbenzene	12.29	105	12876	2.127 ug/l		99
92) 1,2-Dibromo-3-Chloropropan	13.71	75	384	1.107 ug/l	#	29
95) Naphthalene	14.52	128	15034	3.687 ug/l		99
96) 1,2,3-Trichlorobenzene	14.67	180	1968	1.110 ug/l		96

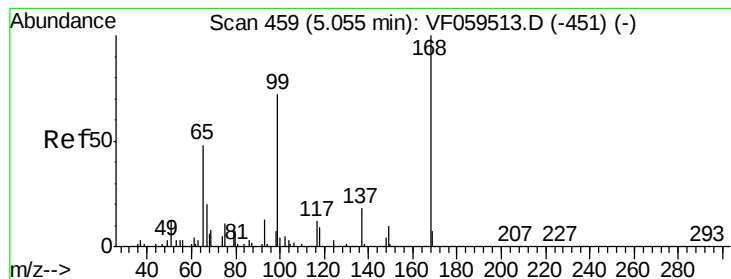
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

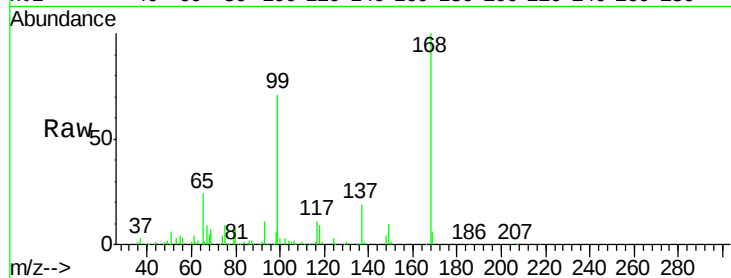
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 163869

Ion Ratio Lower Upper

168 100

99 71.5 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

30000

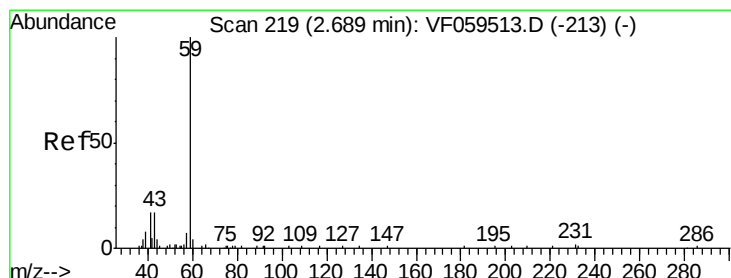
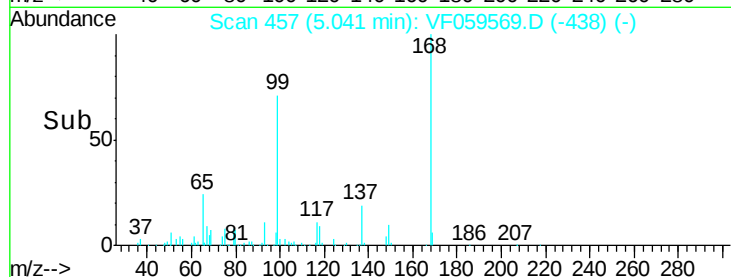
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.66 min Scan# 215

Delta R.T. -0.03 min

Lab File: VF059569.D

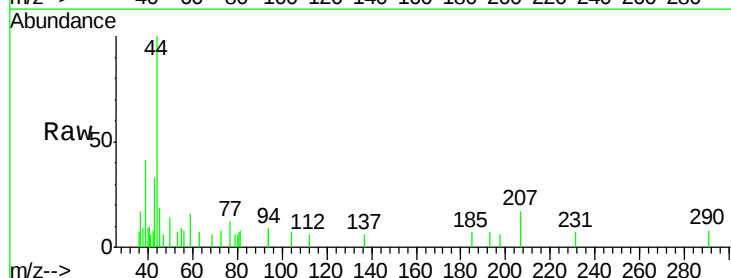
Acq: 19 Jul 2018 21:51

Tgt Ion: 59 Resp: 548

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

600

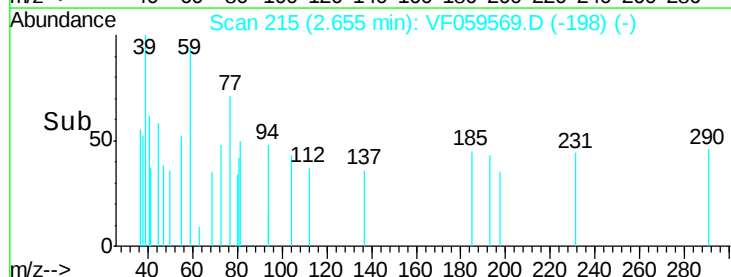
400

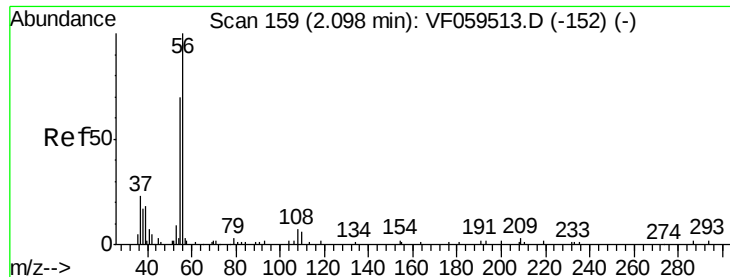
200

0

Time-->

2.62 2.64 2.66 2.68 2.70





#13

Acrolein

Concen: Below Cal

RT: 2.15 min Scan# 164

Delta R.T. 0.06 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

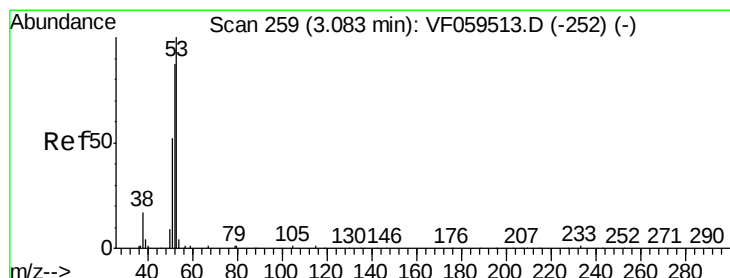
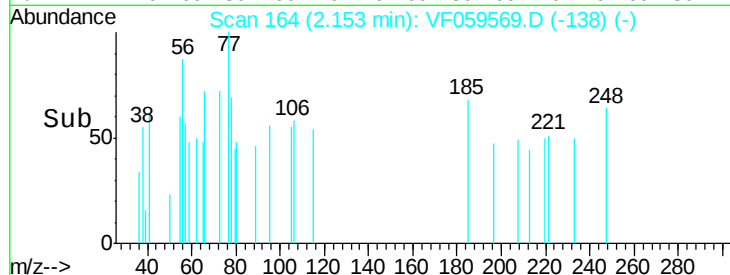
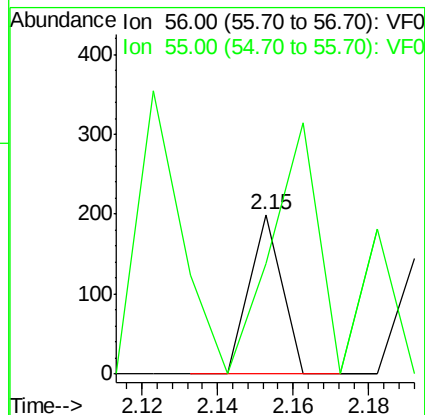
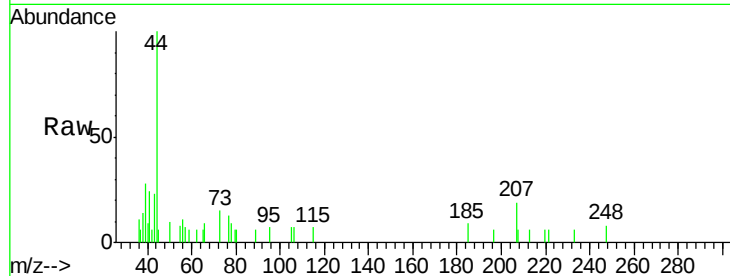
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 118

Ion Ratio Lower Upper

56 100

55 69.3 59.4 89.2



#15

Acrylonitrile

Concen: 1.707 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

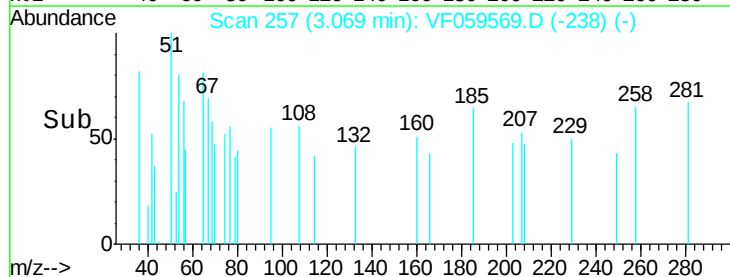
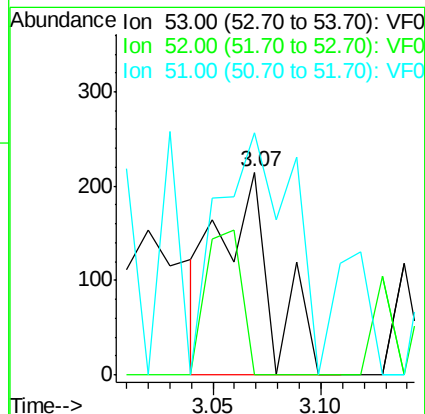
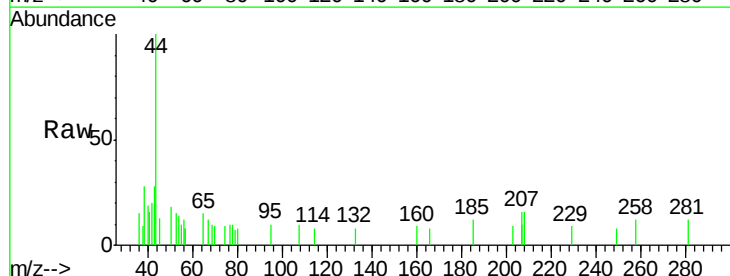
Tgt Ion: 53 Resp: 365

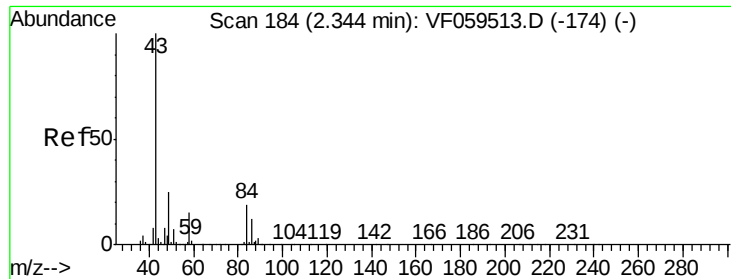
Ion Ratio Lower Upper

53 100

52 0.0 70.1 105.1#

51 119.5 42.5 63.7#

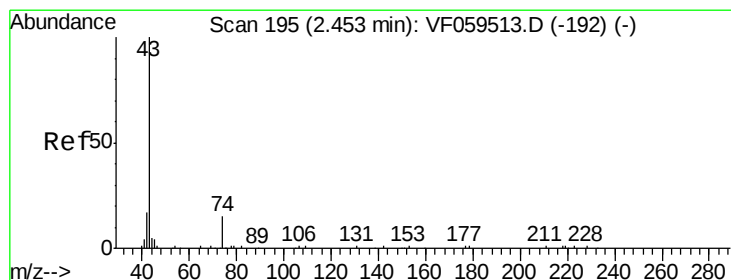
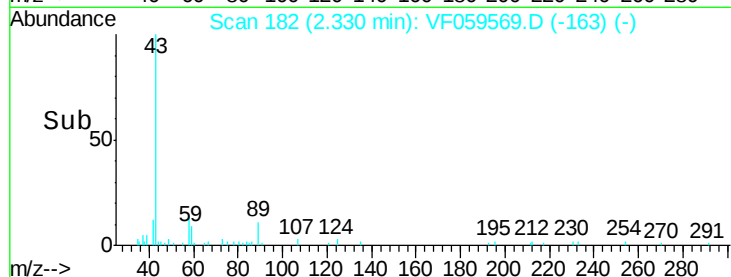
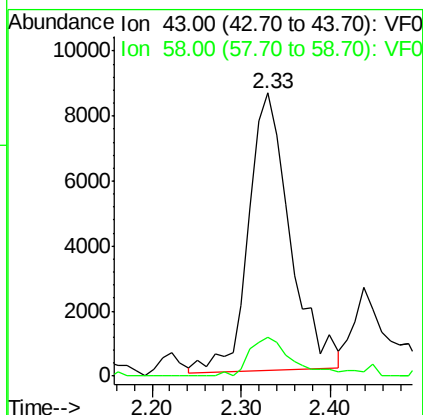
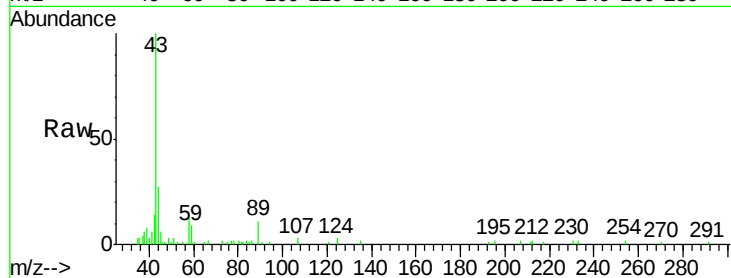




#16
Acetone
Concen: 50.463 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

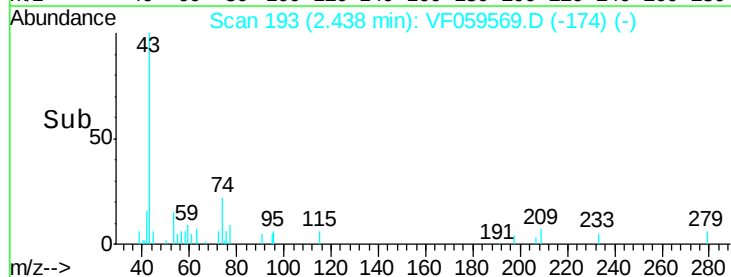
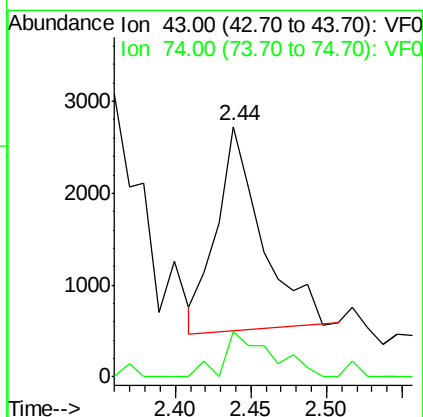
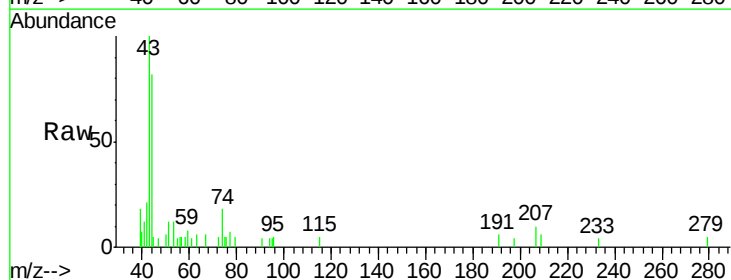
Instrument :
MSVOA_F
ClientSampleId :

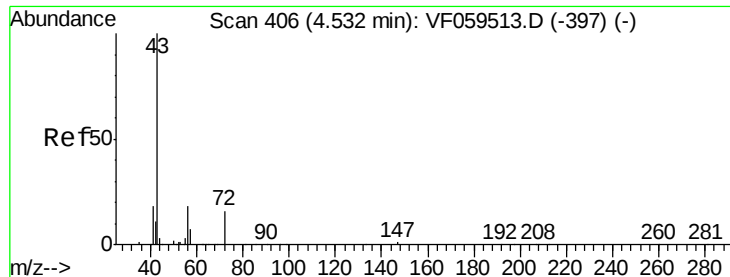
Tot Ion: 43 Resp: 27583
Ion Ratio Lower Upper
43 100
58 13.6 11.8 17.6



#18
Methyl Acetate
Concen: 3.158 ug/l
RT: 2.44 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

Tgt Ion: 43 Resp: 4662
Ion Ratio Lower Upper
43 100
74 18.1 10.6 15.8#





#25

2-Butanone

Concen: 7.524 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.01 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

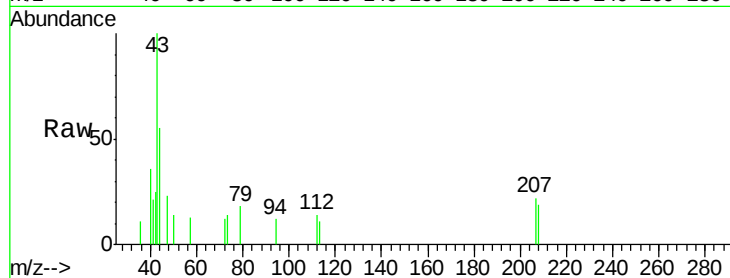
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 4452

Ion Ratio Lower Upper

43 100

72 12.5 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.52

800

600

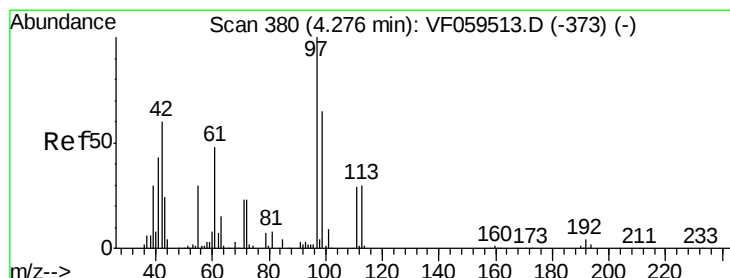
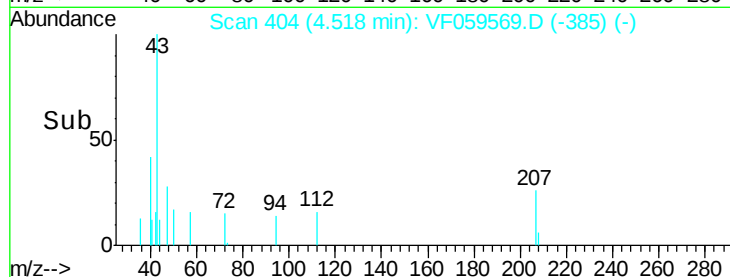
400

200

0

4.40 4.50 4.60

Time-->



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.31 min Scan# 383

Delta R.T. 0.04 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

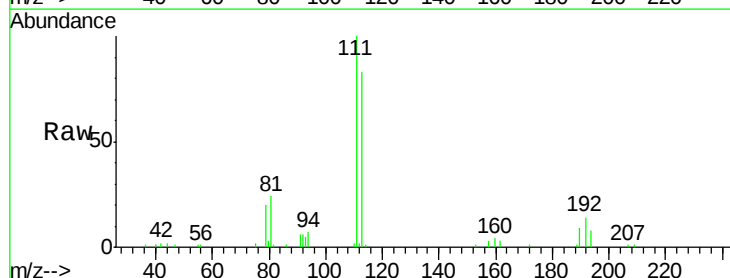
Tgt Ion: 42 Resp: 1003

Ion Ratio Lower Upper

42 100

72 0.0 28.7 43.1#

71 0.0 30.8 46.2#



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

300

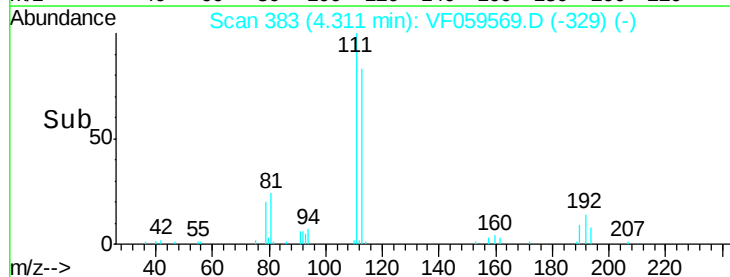
200

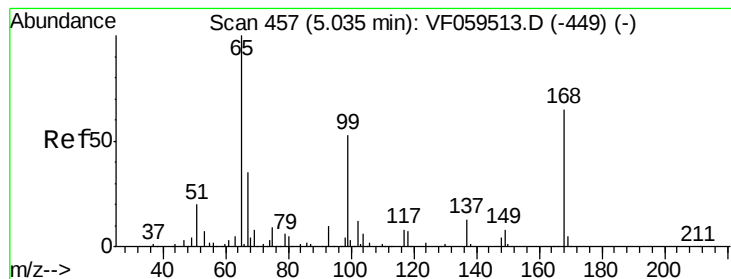
100

0

4.20 4.25 4.30 4.35 4.40

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.829 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

Instrument :

MSVOA_F

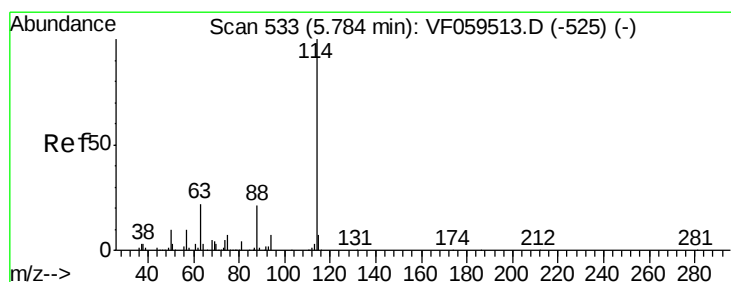
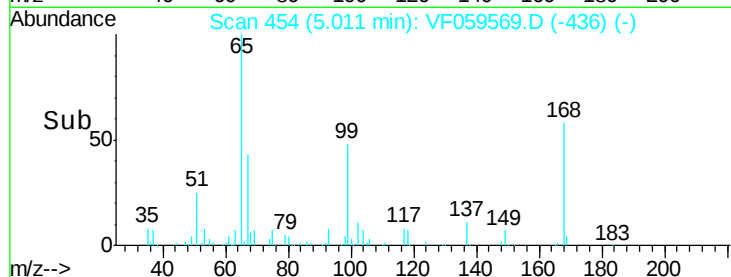
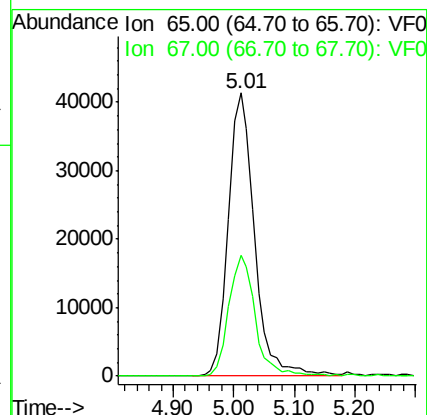
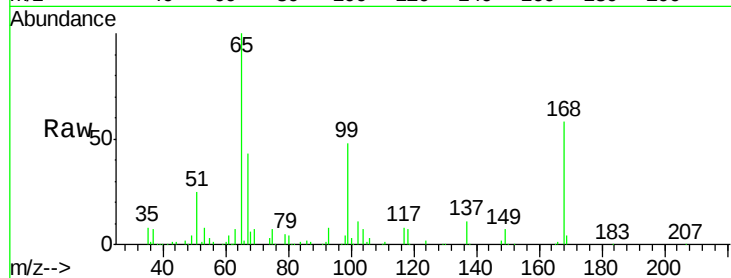
ClientSampled :

Tot Ion: 65 Resp: 124443

Ion Ratio Lower Upper

65 100

67 42.5 0.0 91.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.02 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

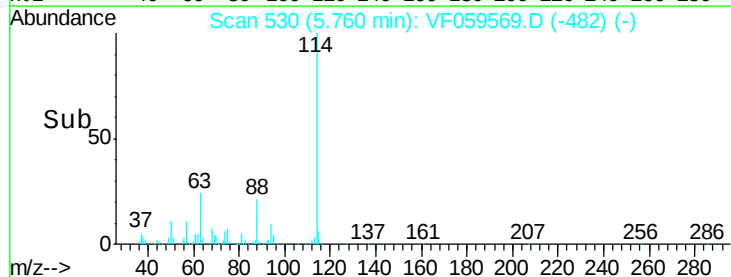
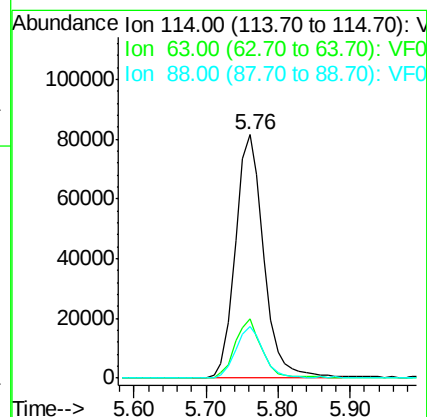
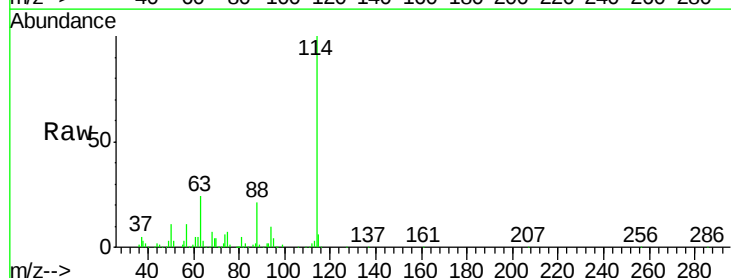
Tgt Ion: 114 Resp: 223658

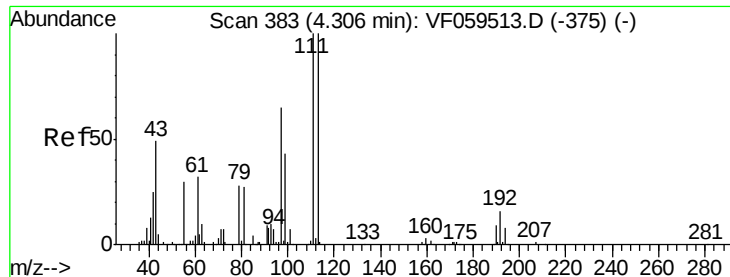
Ion Ratio Lower Upper

114 100

63 24.5 0.0 44.8

88 20.9 0.0 42.6





#35

Dibromofluoromethane

Concen: 51.083 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.02 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

Instrument :
MSVOA_F
ClientSampleId :

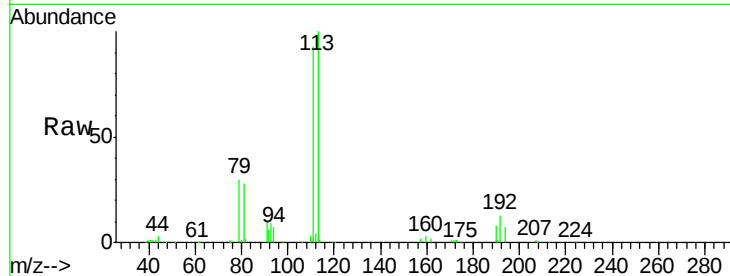
Tot Ion:113 Resp: 98950

Ion Ratio Lower Upper

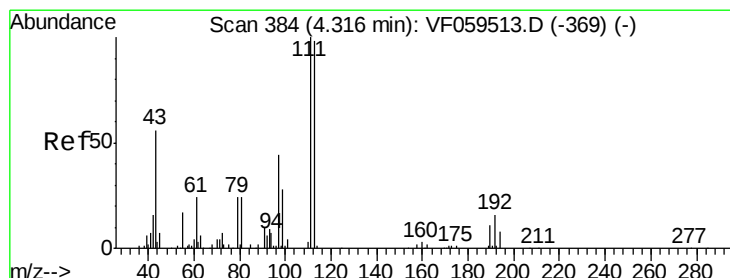
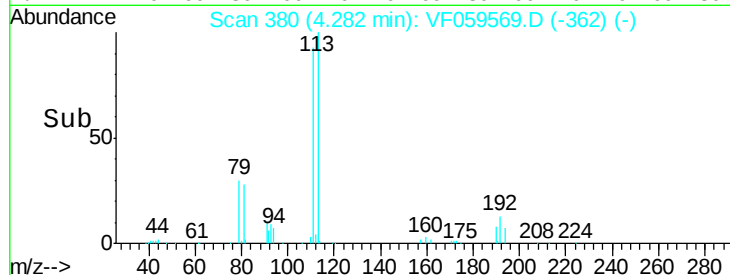
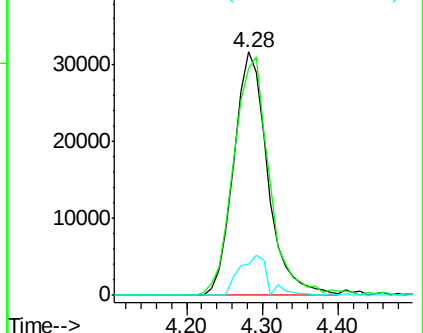
113 100

111 93.4 80.3 120.5

192 12.9 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: 4.29 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

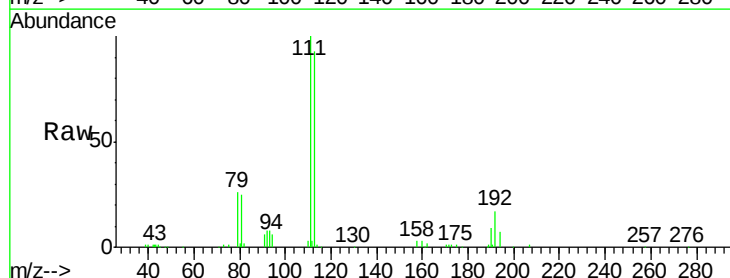
Tgt Ion: 43 Resp: 575

Ion Ratio Lower Upper

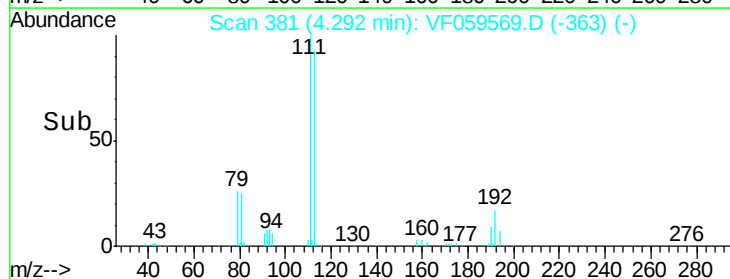
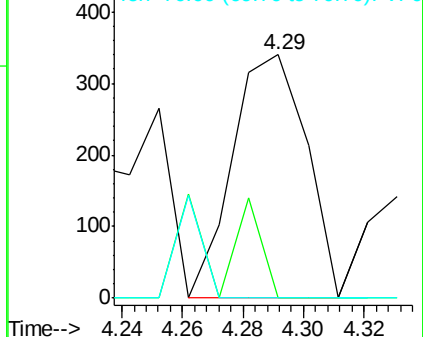
43 100

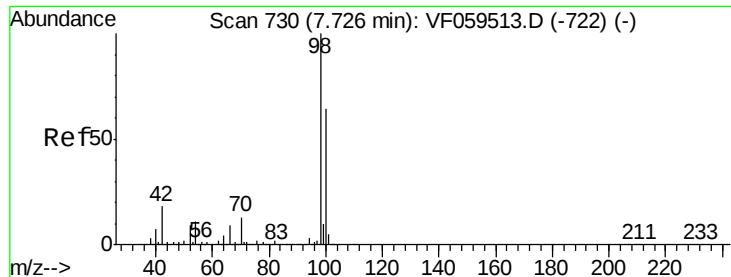
61 0.0 33.7 50.5#

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

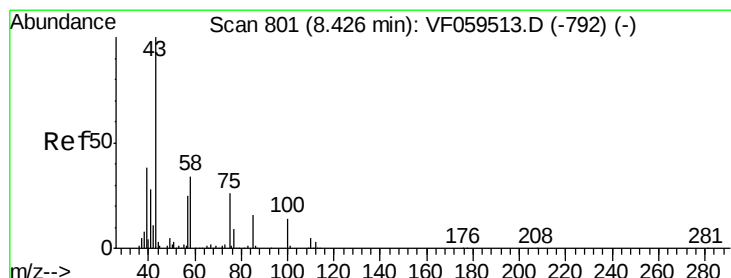
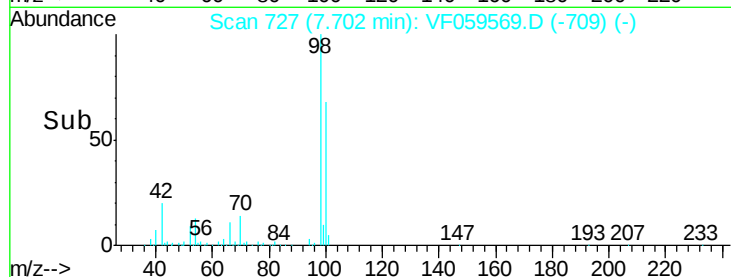
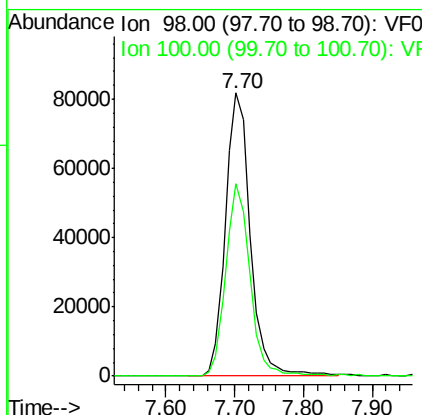
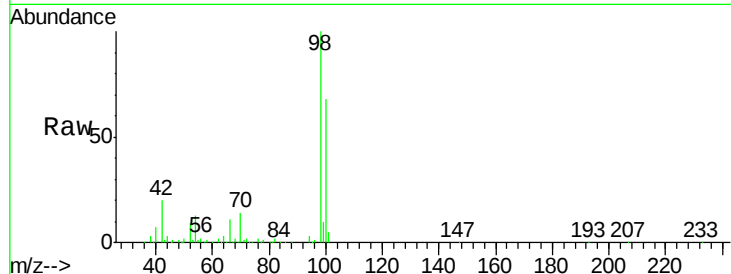




#50
Toluene-d8
Concen: 41.978 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

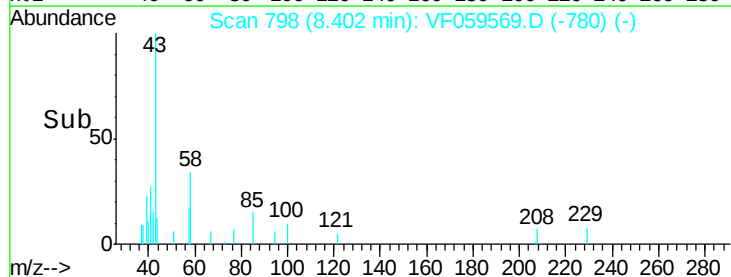
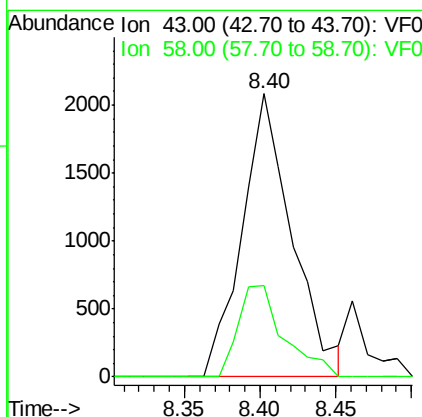
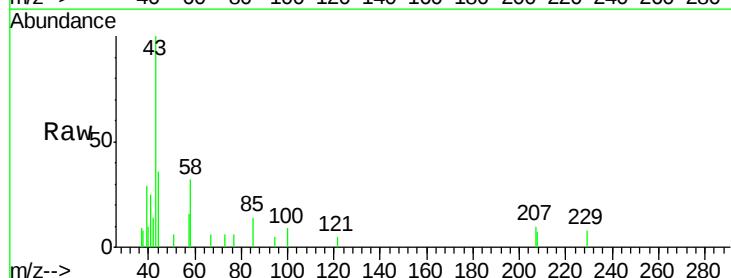
Instrument :
MSVOA_F
ClientSampleId :

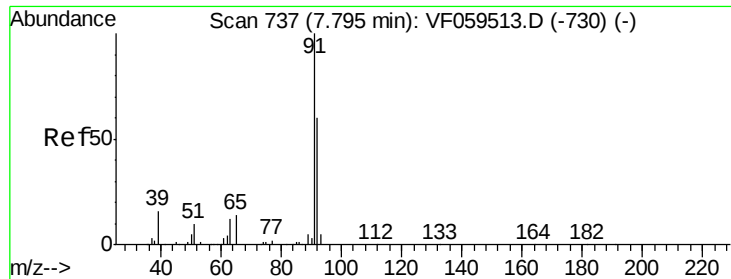
Tot Ion: 98 Resp: 204826
Ion Ratio Lower Upper
98 100
100 67.9 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 4.222 ug/l
RT: 8.40 min Scan# 798
Delta R.T. -0.02 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

Tgt Ion: 43 Resp: 4814
Ion Ratio Lower Upper
43 100
58 32.2 27.4 41.2





#52

Toluene

Concen: 1.578 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

Instrument :

MSVOA_F

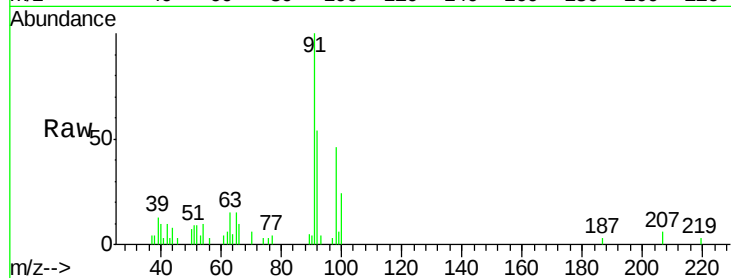
ClientSampleId :

Tot Ion: 92 Resp: 4970

Ion Ratio Lower Upper

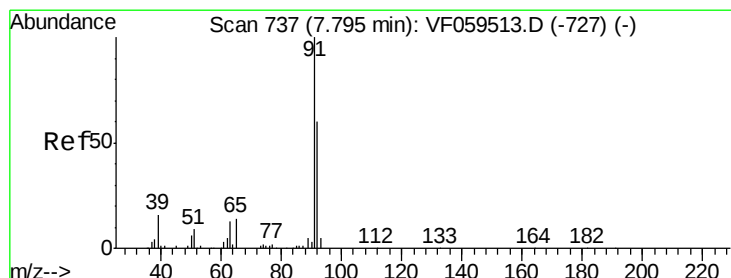
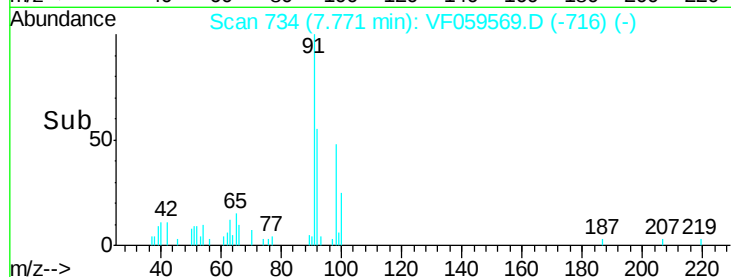
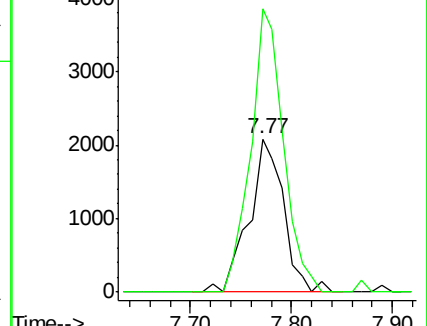
92 100

91 185.3 134.2 201.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 9.108 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF059569.D

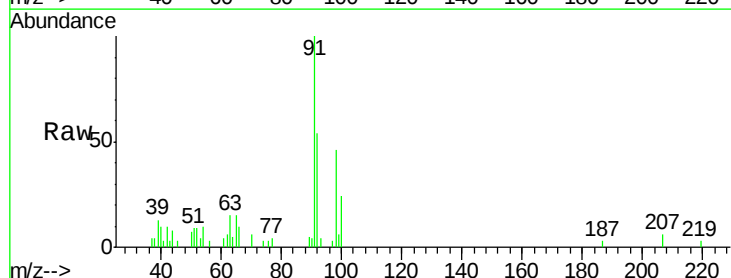
Acq: 19 Jul 2018 21:51

Tgt Ion: 63 Resp: 1217

Ion Ratio Lower Upper

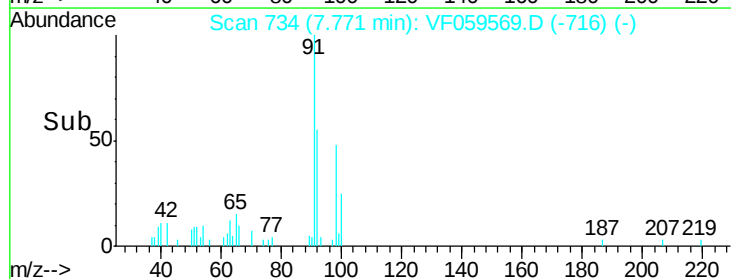
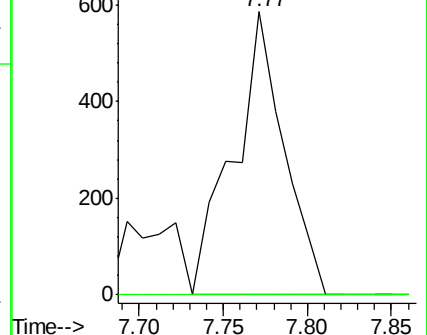
63 100

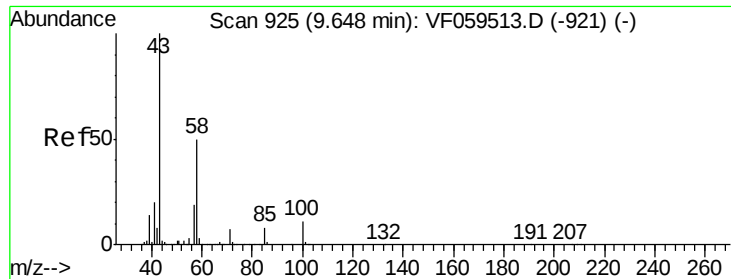
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

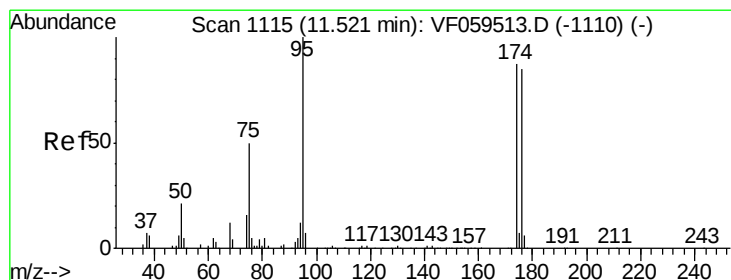
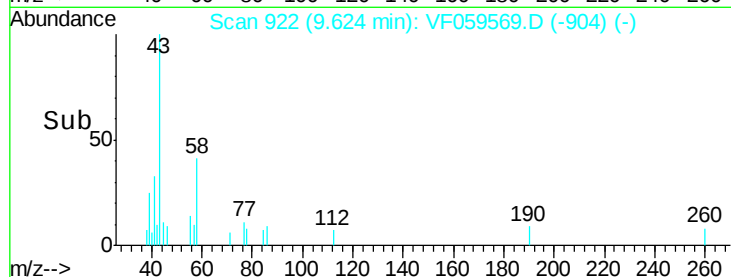
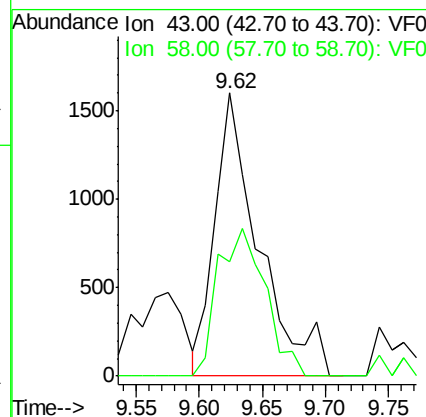
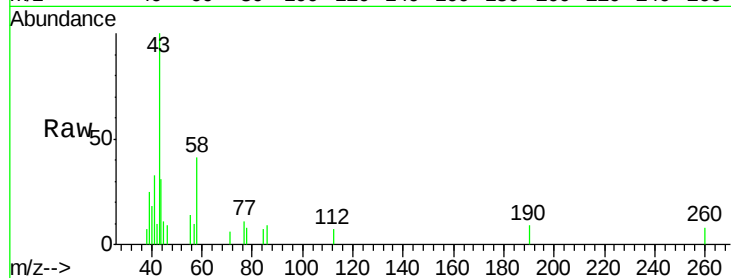




#59
2-Hexanone
Concen: 4.503 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.02 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

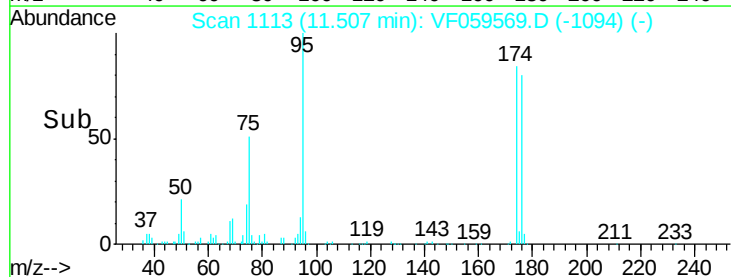
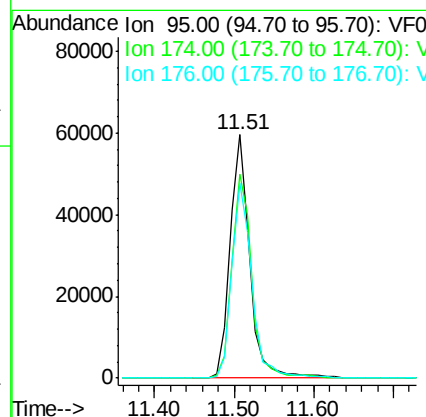
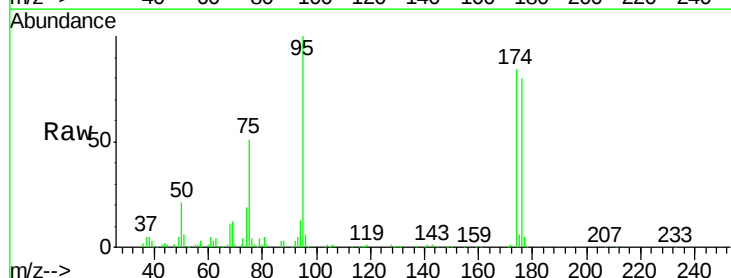
Instrument :
MSVOA_F
ClientSampled :

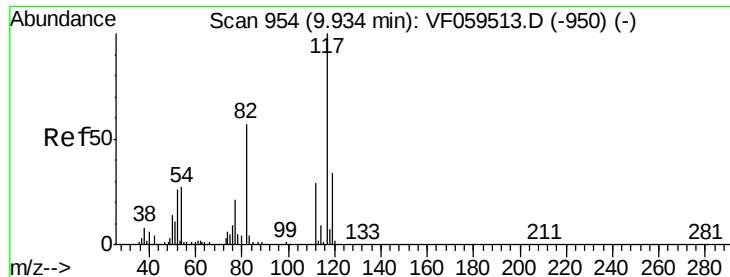
Tot Ion: 43 Resp: 3881
Ion Ratio Lower Upper
43 100
58 40.5 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 40.760 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

Tgt Ion: 95 Resp: 104333
Ion Ratio Lower Upper
95 100
174 83.6 0.0 174.4
176 80.0 0.0 169.4

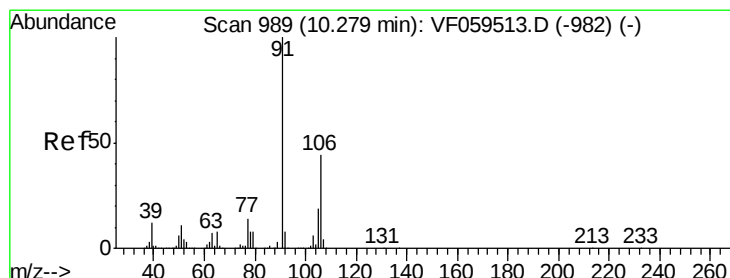
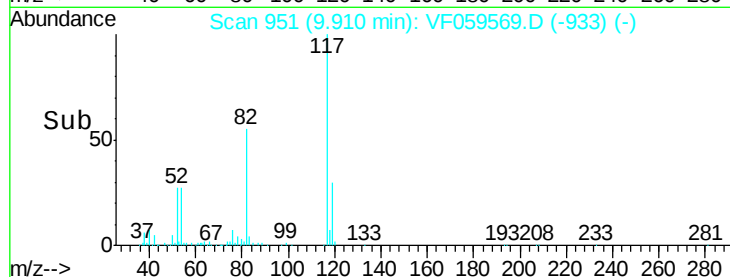
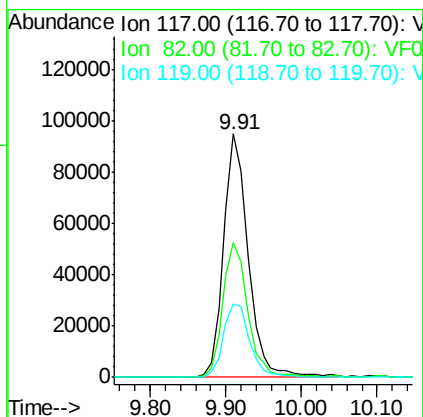
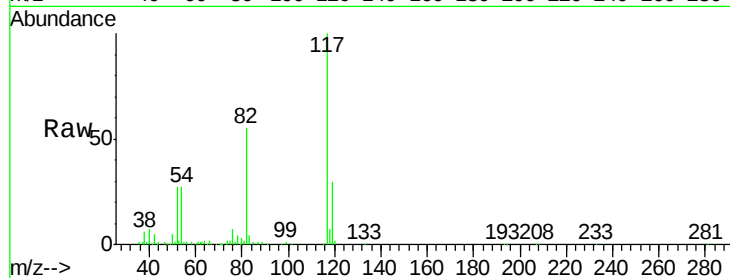




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

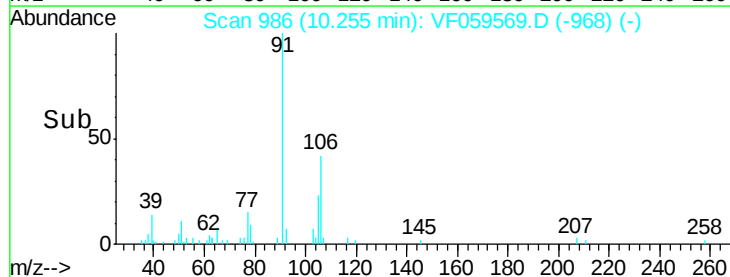
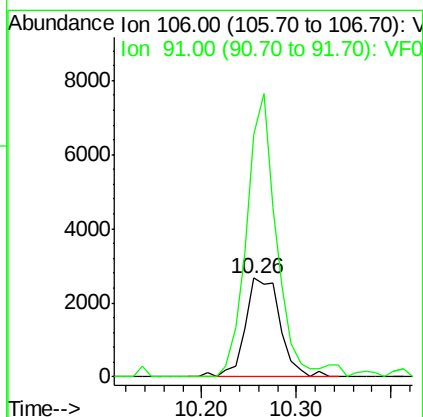
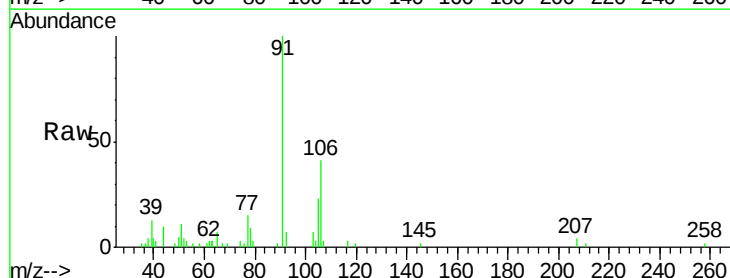
Instrument :
MSVOA_F
ClientSampleId :

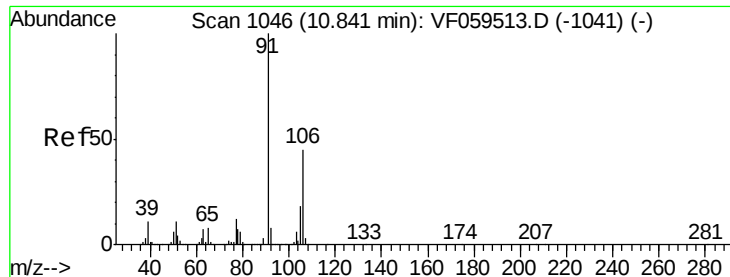
Tot Ion:117 Resp: 216046
Ion Ratio Lower Upper
117 100
82 55.3 46.1 69.1
119 30.0 27.2 40.8



#68
m/p-Xylenes
Concen: 2.673 ug/l
RT: 10.26 min Scan# 986
Delta R.T. -0.02 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

Tgt Ion:106 Resp: 6804
Ion Ratio Lower Upper
106 100
91 244.8 181.0 271.4

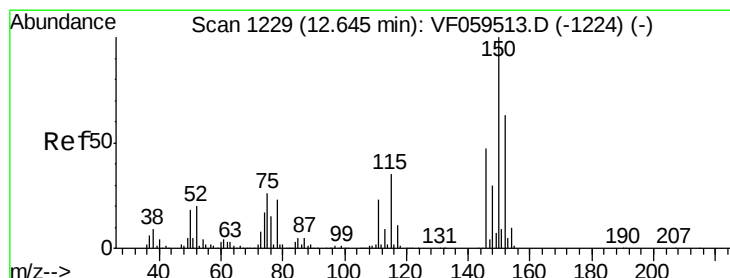
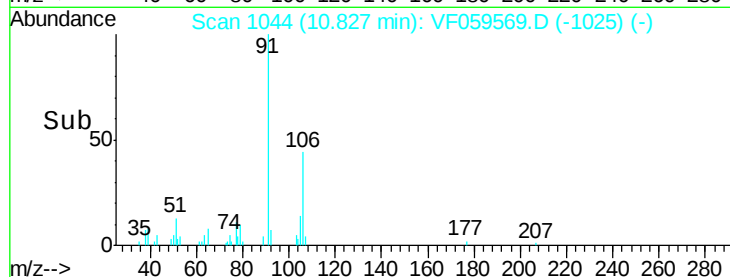
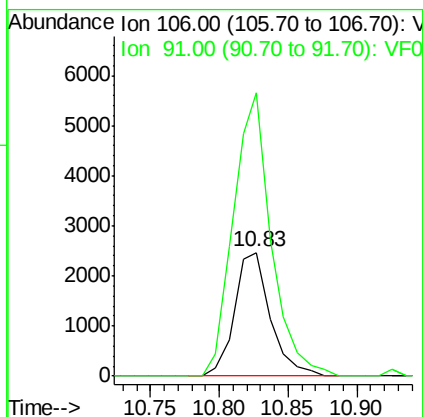
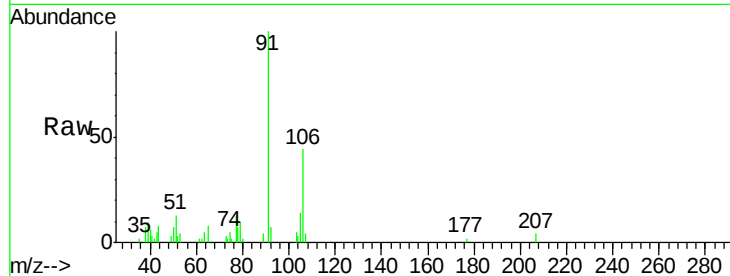




#69
o-Xylene
Concen: 1.659 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

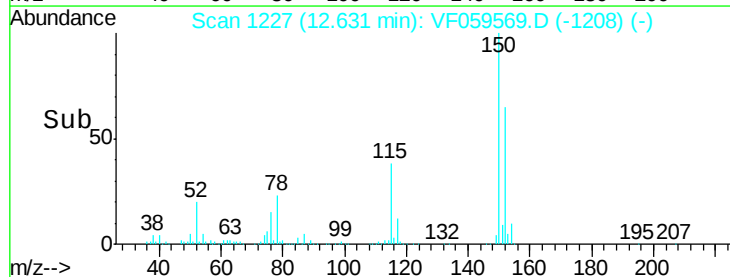
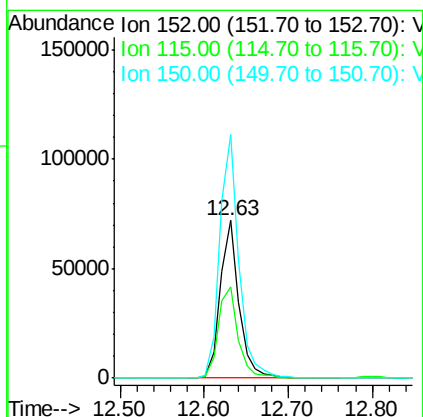
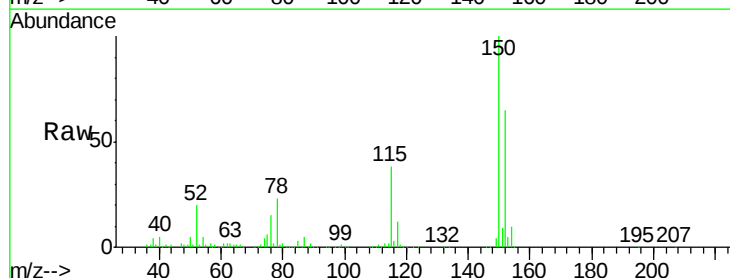
Instrument :
MSVOA_F
ClientSampled :

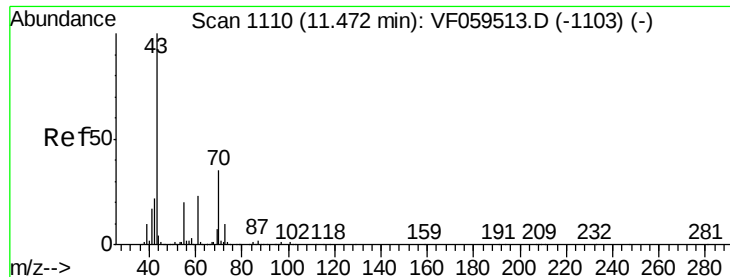
Tot Ion:106 Resp: 4496
Ion Ratio Lower Upper
106 100
91 229.0 112.3 336.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

Tgt Ion:152 Resp: 111299
Ion Ratio Lower Upper
152 100
115 58.1 27.8 83.3
150 154.3 0.0 318.4

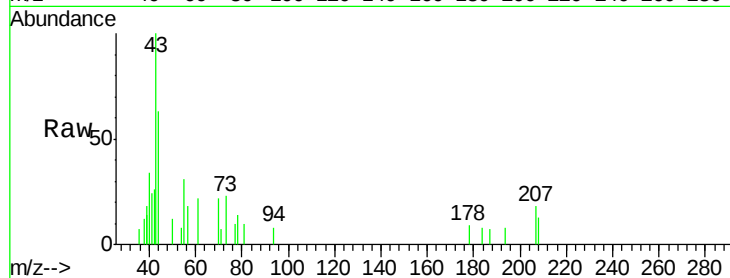




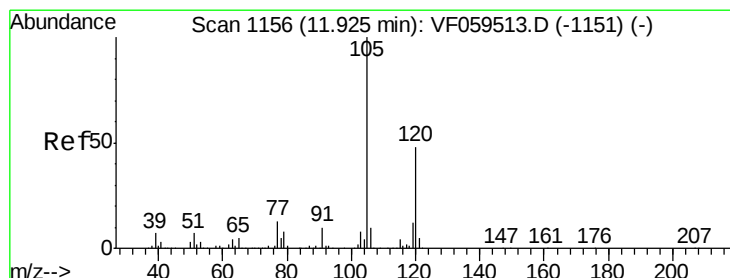
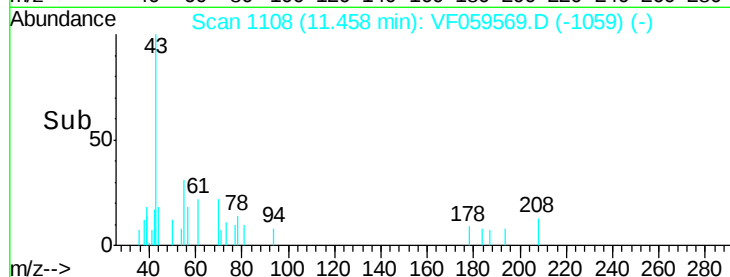
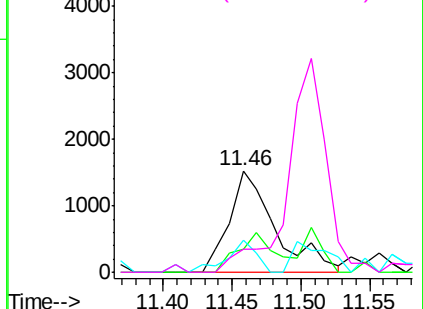
#74
N-amvl acetate
Concen: 1.578 ug/l
RT: 11.46 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3549
Ion Ratio Lower Upper
43 100
70 22.3 27.9 41.9#
55 31.1 16.2 24.2#
61 22.3 18.6 27.8

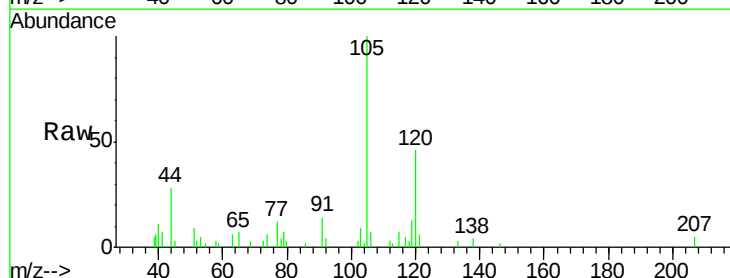


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 70.00 (69.70 to 70.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

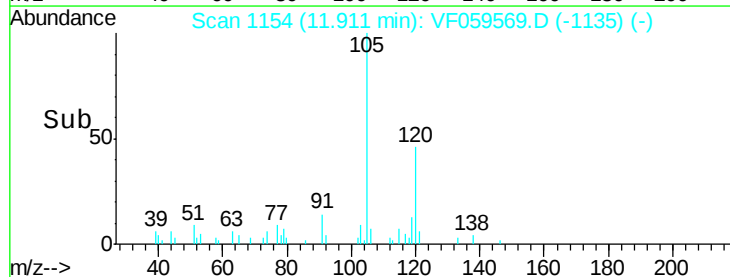
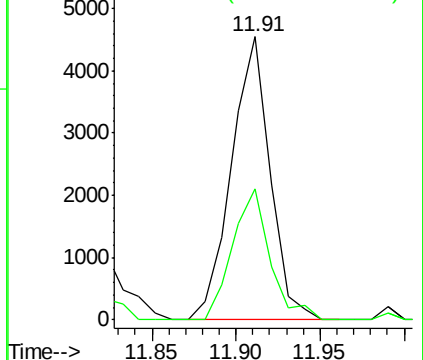


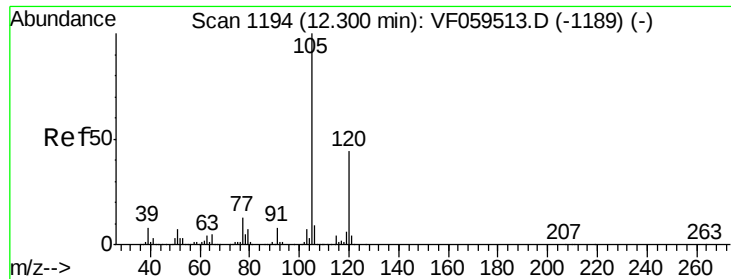
#80
1,3,5-Trimethylbenzene
Concen: 1.231 ug/l
RT: 11.91 min Scan# 1154
Delta R.T. -0.01 min
Lab File: VF059569.D
Acq: 19 Jul 2018 21:51

Tgt Ion:105 Resp: 7245
Ion Ratio Lower Upper
105 100
120 46.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

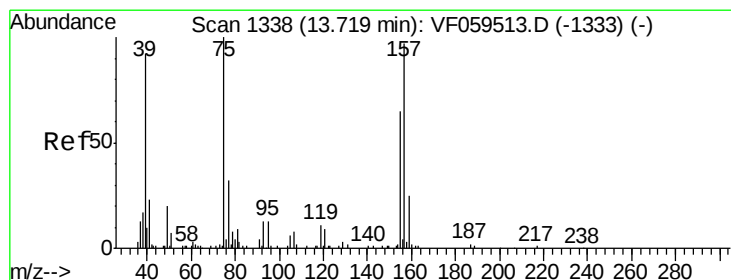
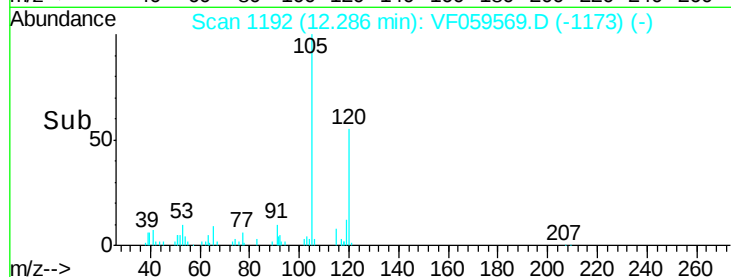
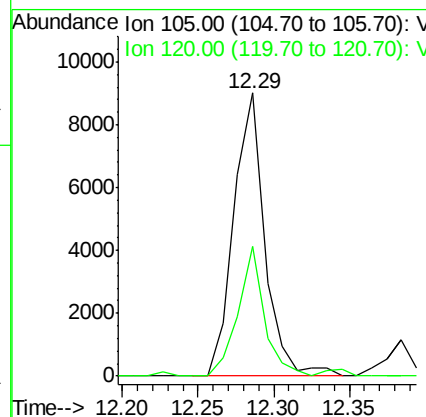
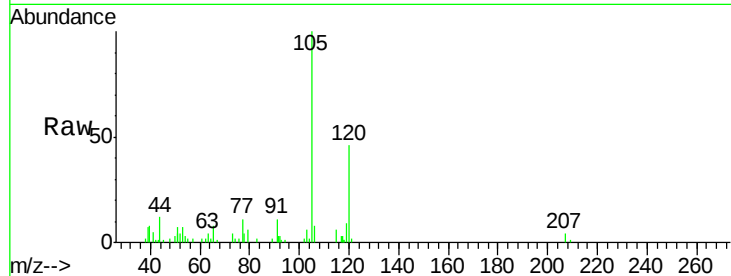




#84
 1,2,4-Trimethylbenzene
 Concen: 2.127 ug/l
 RT: 12.29 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: VF059569.D
 Acq: 19 Jul 2018 21:51

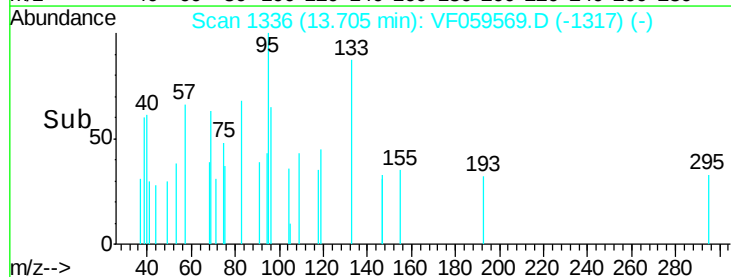
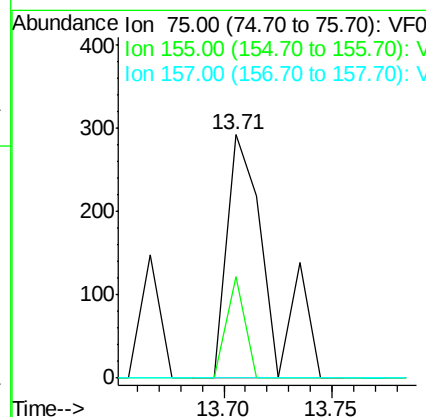
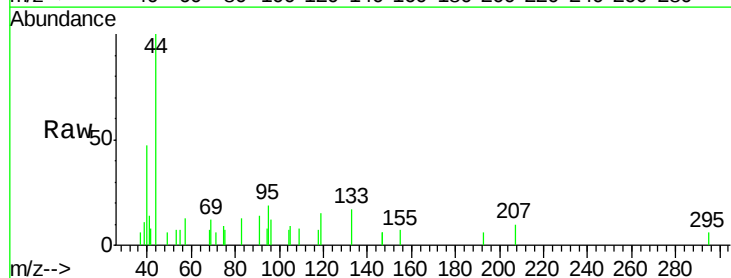
Instrument :
 MSVOA_F
 ClientSampled :

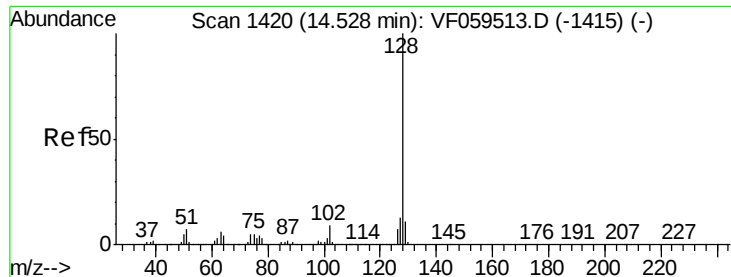
Tot Ion:105 Resp: 12876
 Ion Ratio Lower Upper
 105 100
 120 45.8 22.5 67.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.107 ug/l
 RT: 13.71 min Scan# 1336
 Delta R.T. -0.01 min
 Lab File: VF059569.D
 Acq: 19 Jul 2018 21:51

Tgt Ion: 75 Resp: 384
 Ion Ratio Lower Upper
 75 100
 155 41.8 32.8 98.3
 157 0.0 48.5 145.5#





#95

Naphthalene

Concen: 3.687 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

Instrument :

MSVOA_F

ClientSampleId :

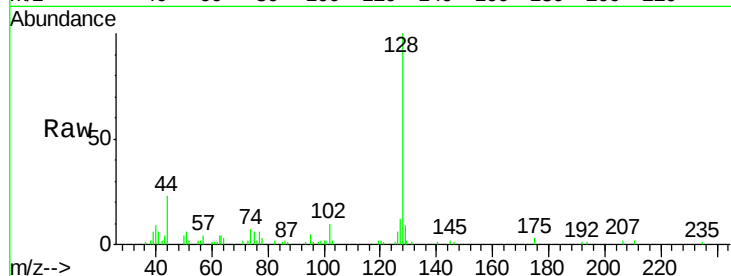
Tot Ion:128 Resp: 15034

Ion Ratio Lower Upper

128 100

127 11.7 10.2 15.2

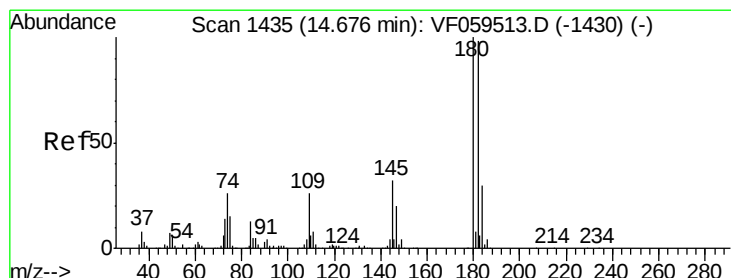
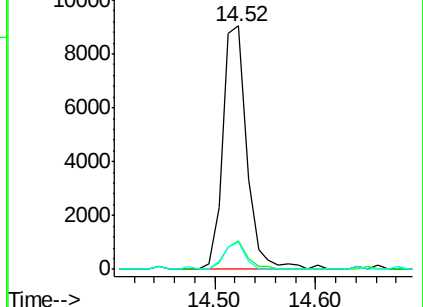
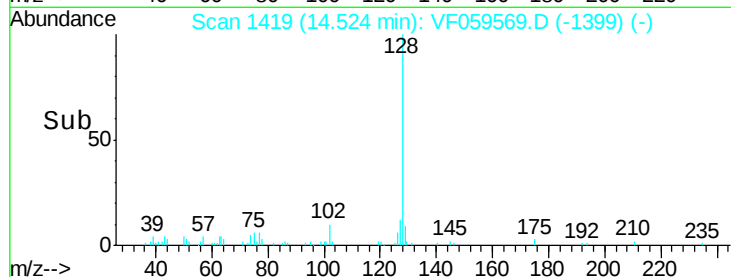
129 11.1 9.0 13.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.110 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VF059569.D

Acq: 19 Jul 2018 21:51

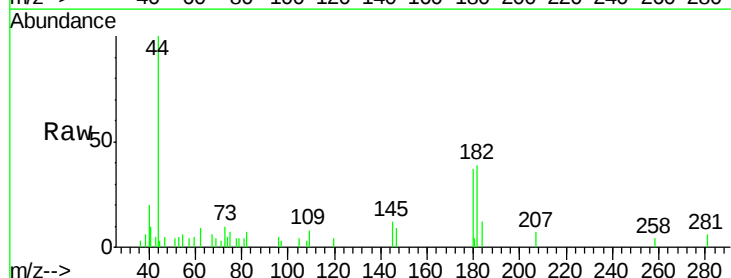
Tgt Ion:180 Resp: 1968

Ion Ratio Lower Upper

180 100

182 94.6 48.8 146.4

145 29.0 16.2 48.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

