

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110618\
 Data File : VF060614.D
 Acq On : 6 Nov 2018 15:59
 Operator : VA/AP
 Sample : J5803-08RE
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 16:02:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	248067	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.61	114	419895	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.80	117	359386	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	182635	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	126863	50.62	ug/l	0.02
Spiked Amount			Recovery	=	101.24%	
35) Dibromofluoromethane	4.12	113	160920	49.60	ug/l	0.02
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	7.57	98	417451	43.44	ug/l	0.00
Spiked Amount			Recovery	=	86.88%	
62) 4-Bromofluorobenzene	11.42	95	176206	41.92	ug/l	0.00
Spiked Amount			Recovery	=	83.84%	

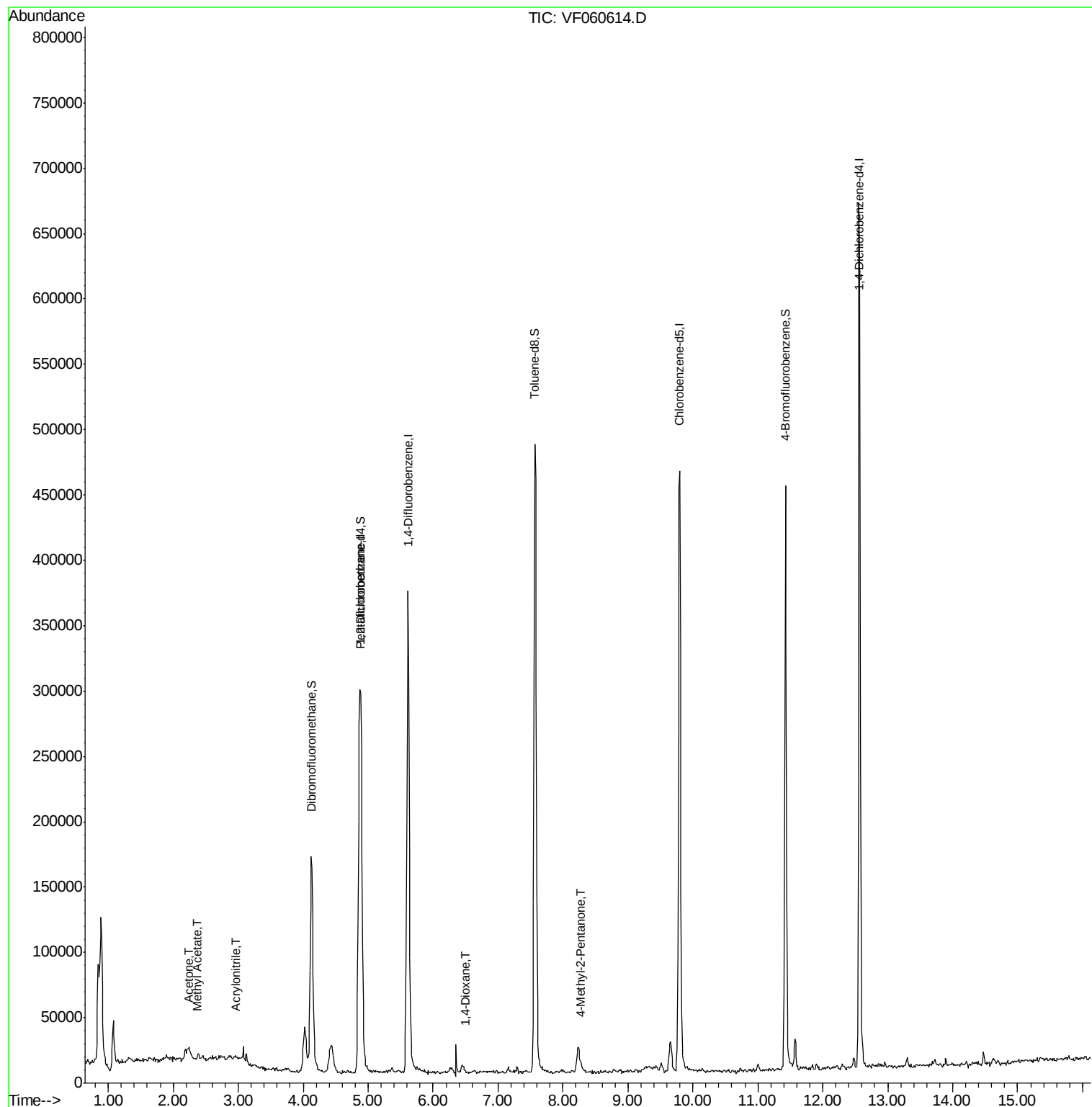
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	936	Below Cal	#	41
6) Chloroethane	1.36	64	147	Below Cal	#	1
11) Tert butyl alcohol	2.59	59	703	Below Cal	#	1
13) Acrolein	2.04	56	486	Below Cal		91
15) Acrylonitrile	2.95	53	589	1.972	ug/l #	73
16) Acetone	2.24	43	8327	14.099	ug/l	96
18) Methyl Acetate	2.36	43	1401	1.992	ug/l #	64
20) Methylene Chloride	2.19	84	3210	Below Cal	#	89
25) 2-Butanone	4.37	43	948	Below Cal		98
29) Tetrahydrofuran	4.10	42	1177	Below Cal	#	36
49) 1,4-Dioxane	6.51	88	60	3.251	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	5174	2.741	ug/l #	81
58) 2-Chloroethyl Vinyl ether	7.65	63	222	Below Cal		100
59) 2-Hexanone	9.51	43	5787	Below Cal		93
74) N-amyl acetate	11.39	43	2284	Below Cal	#	78
89) n-Butylbenzene	12.85	91	1726	Below Cal		89

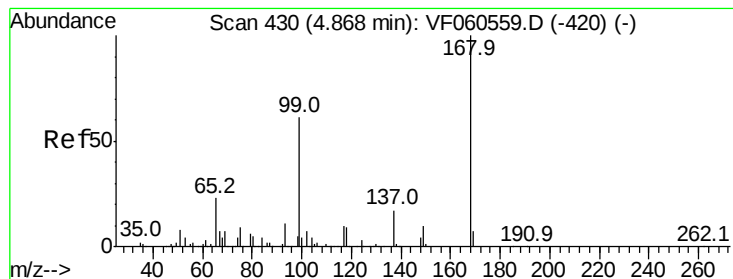
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.03 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

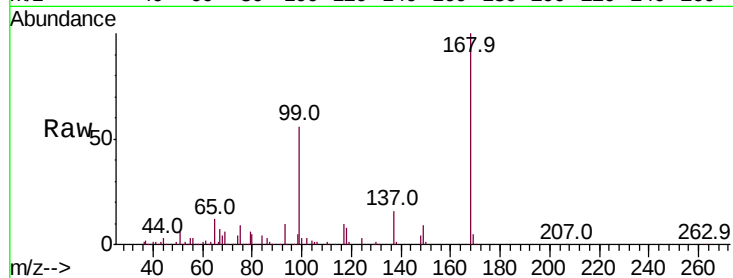
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 248067

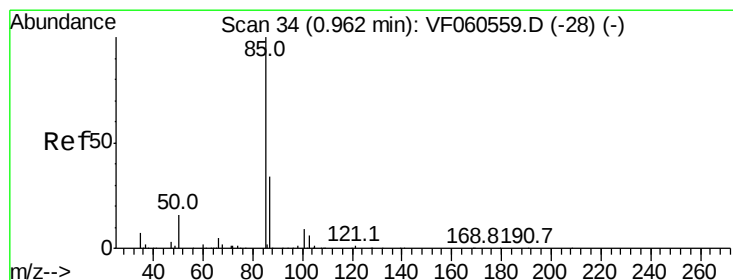
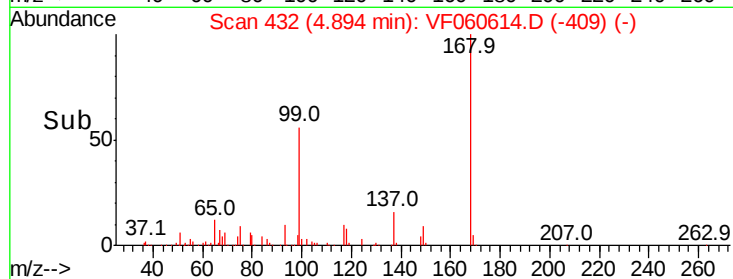
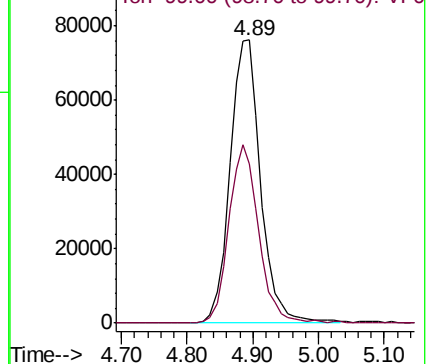
Ion Ratio Lower Upper

168 100

99 56.2 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF060614.D

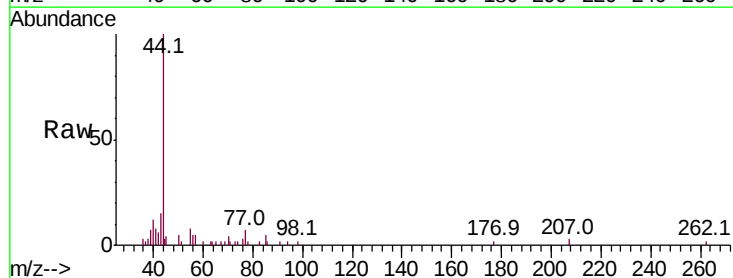
Acq: 6 Nov 2018 15:59

Tgt Ion: 85 Resp: 936

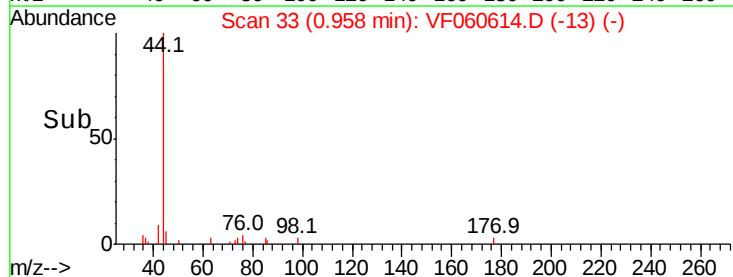
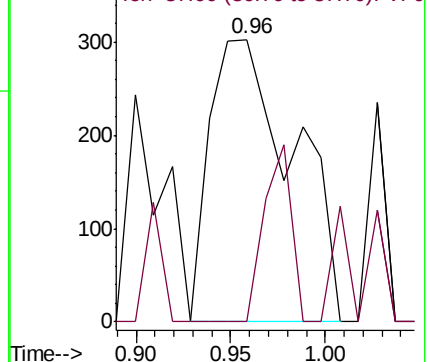
Ion Ratio Lower Upper

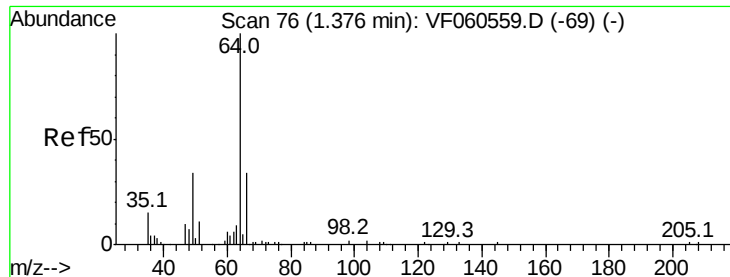
85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

Instrument :

MSVOA_F

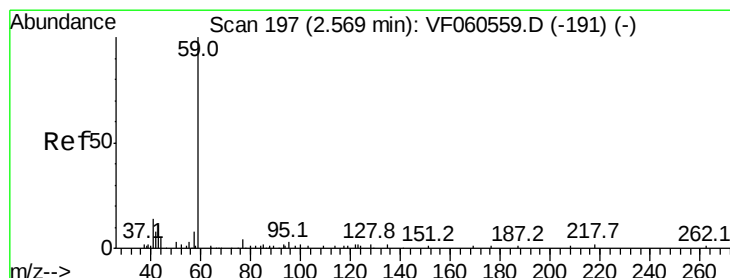
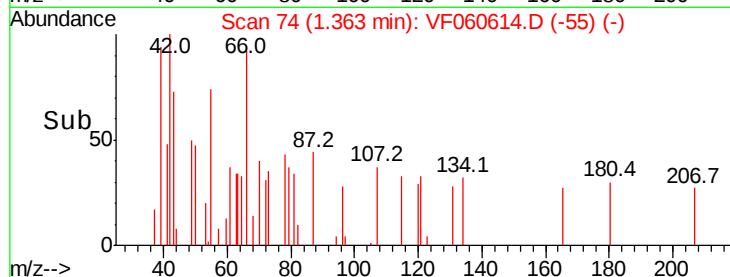
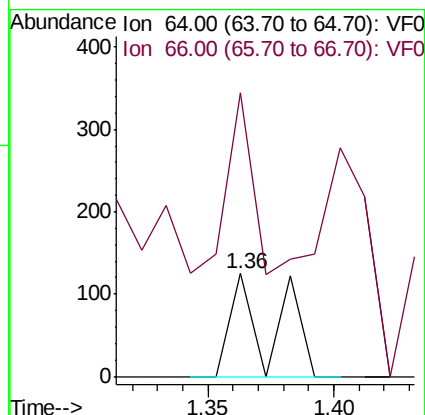
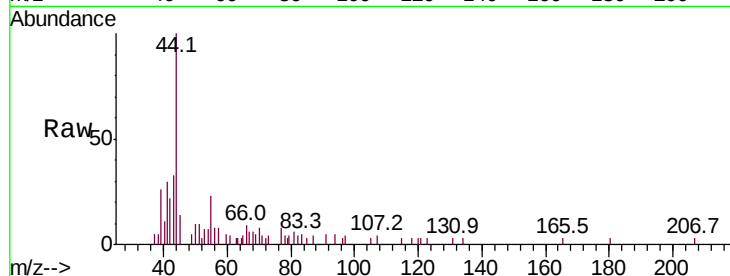
ClientSampleId :

Tot Ion: 64 Resp: 147

Ion Ratio Lower Upper

64 100

66 275.2 27.8 41.8#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.59 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF060614.D

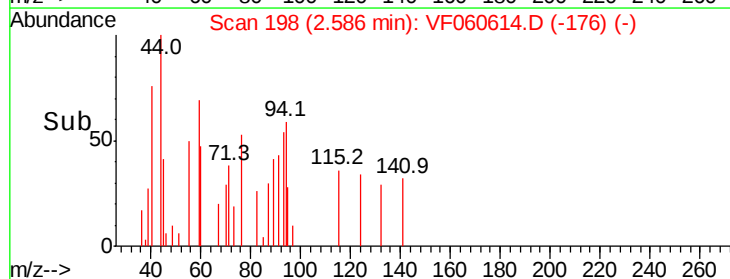
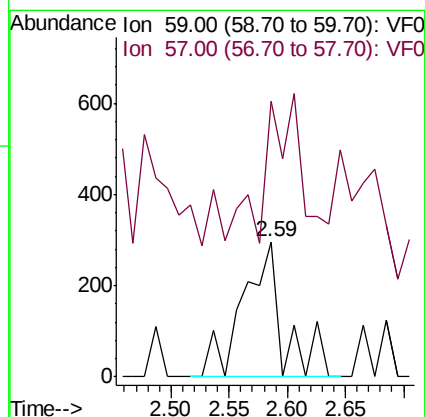
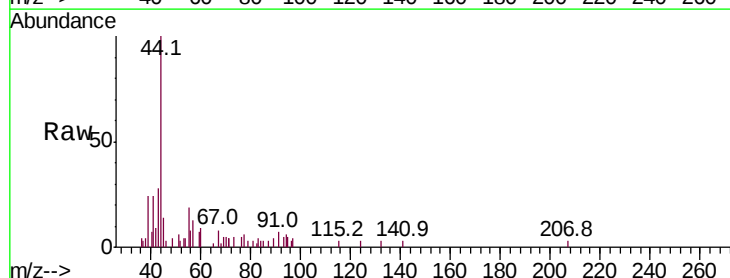
Acq: 6 Nov 2018 15:59

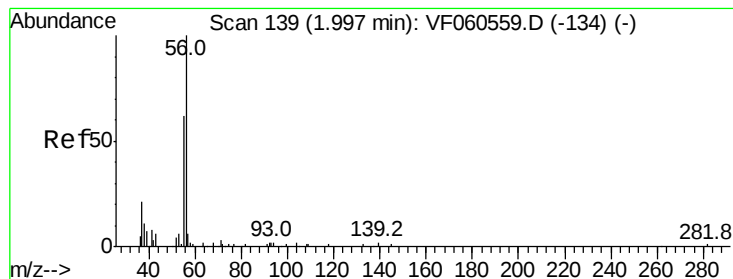
Tgt Ion: 59 Resp: 703

Ion Ratio Lower Upper

59 100

57 204.7 19.0 28.4#





#13

Acrolein

Concen: Below Cal

RT: 2.04 min Scan# 143

Delta R.T. 0.05 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

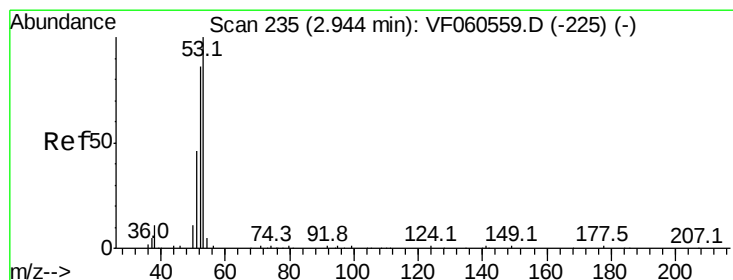
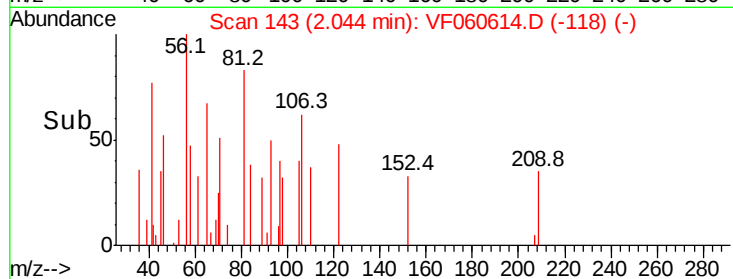
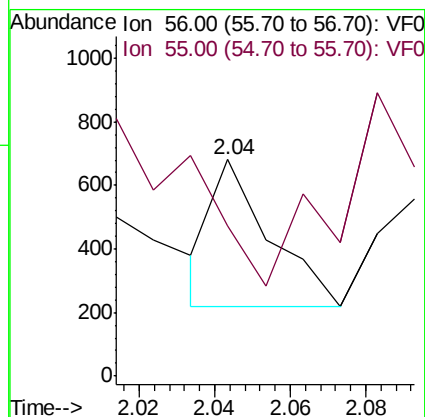
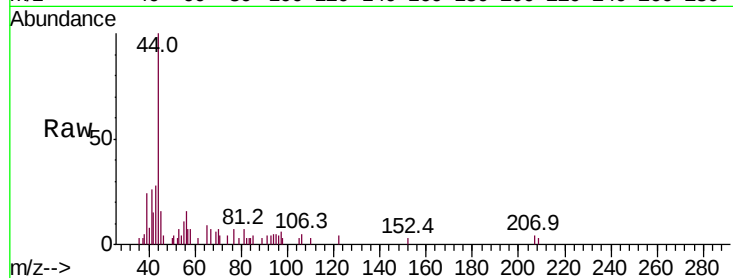
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 486

Ion Ratio Lower Upper

56 100

55 69.5 61.8 92.6



#15

Acrylonitrile

Concen: 1.972 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

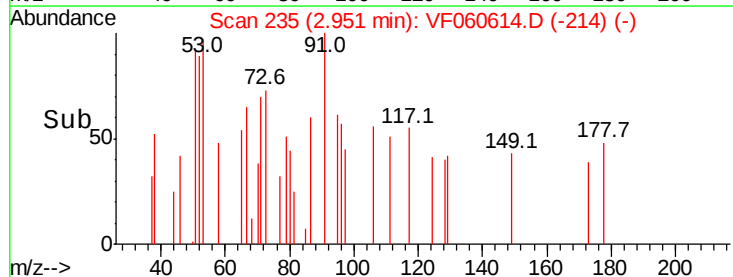
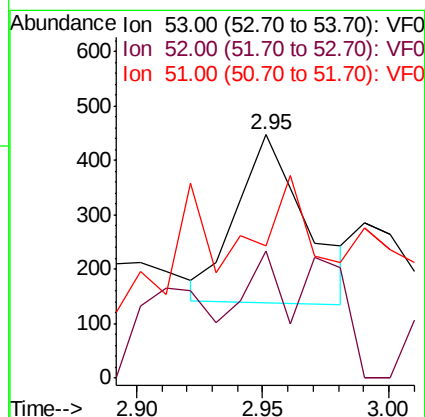
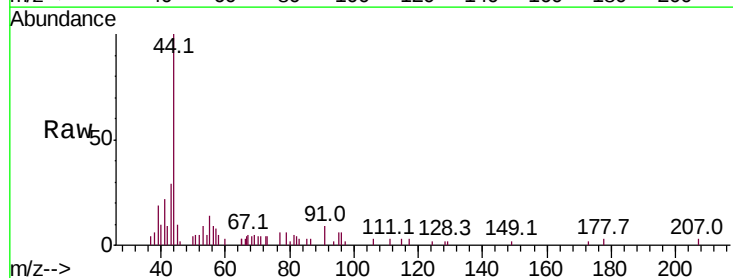
Tgt Ion: 53 Resp: 589

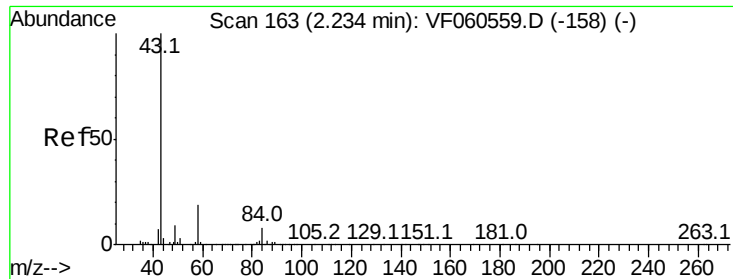
Ion Ratio Lower Upper

53 100

52 52.3 68.5 102.7#

51 54.4 38.2 57.2





#16

Acetone

Concen: 14.099 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

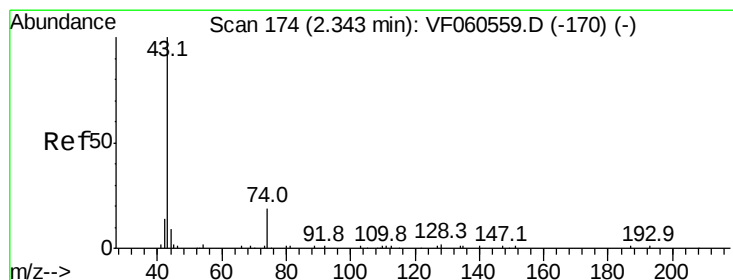
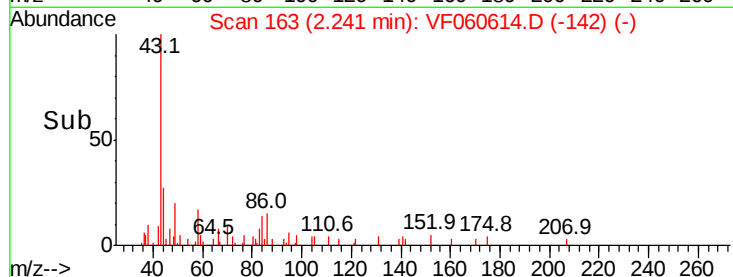
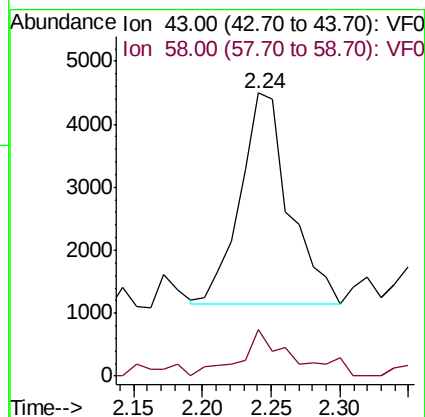
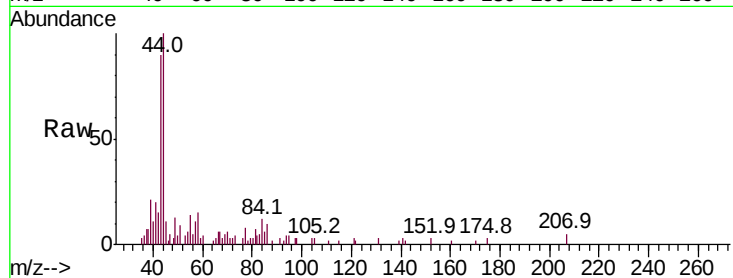
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 8327

Ion Ratio Lower Upper

43 100

58 16.4 14.6 22.0



#18

Methyl Acetate

Concen: 1.992 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.02 min

Lab File: VF060614.D

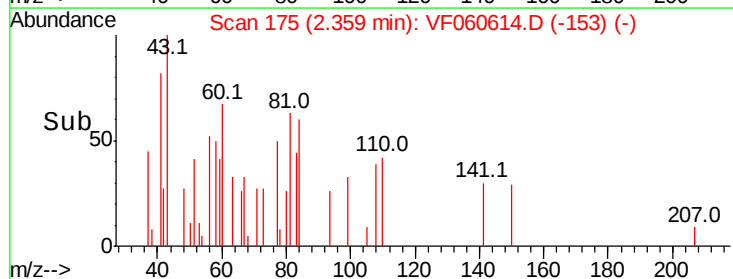
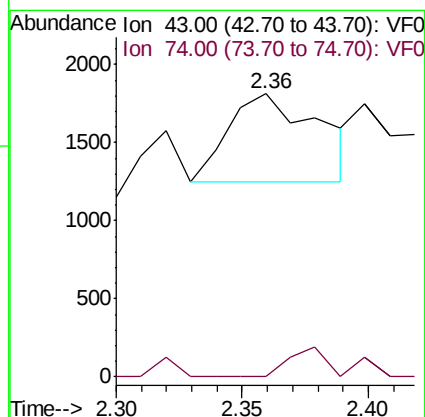
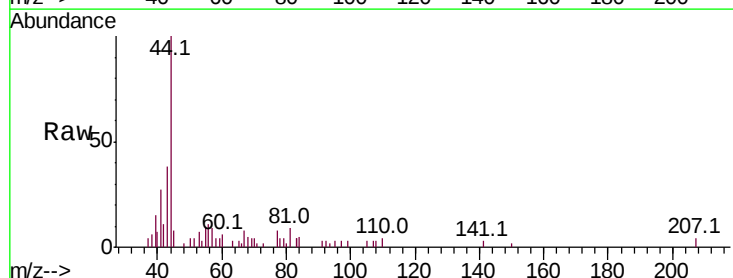
Acq: 6 Nov 2018 15:59

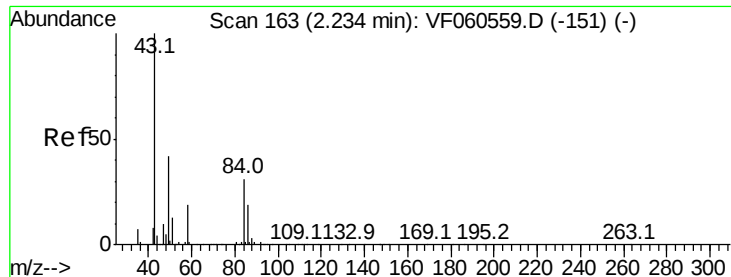
Tgt Ion: 43 Resp: 1401

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#

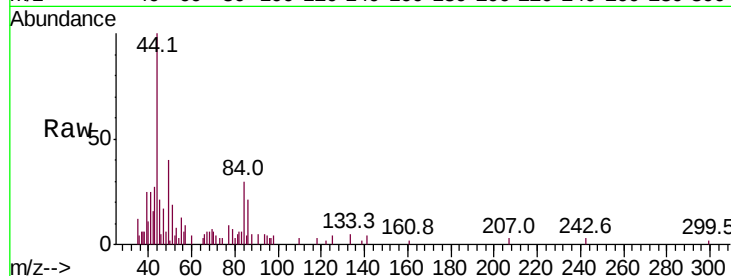




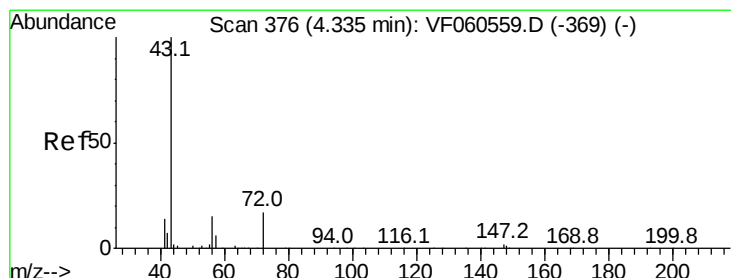
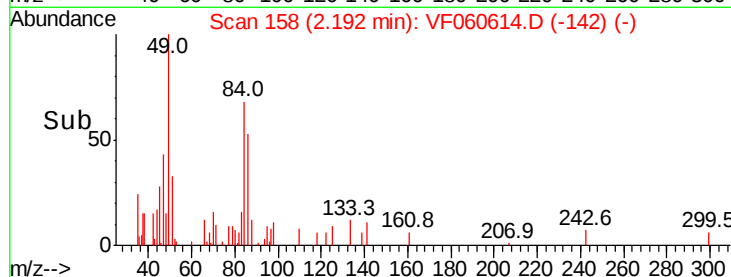
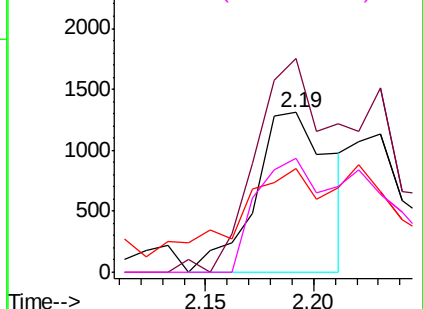
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.04 min
Lab File: VF060614.D
Acq: 6 Nov 2018 15:59

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 3210
Ion Ratio Lower Upper
84 100
49 133.8 109.9 164.9
51 64.9 35.8 53.8#
86 71.0 48.3 72.5

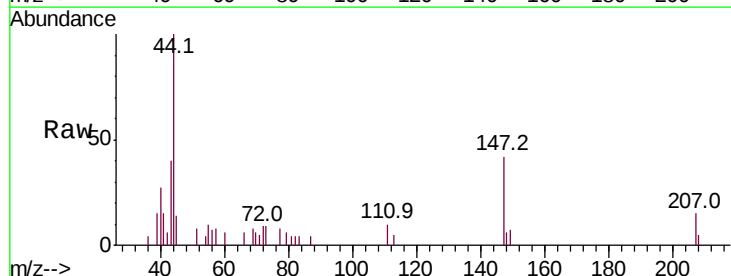


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

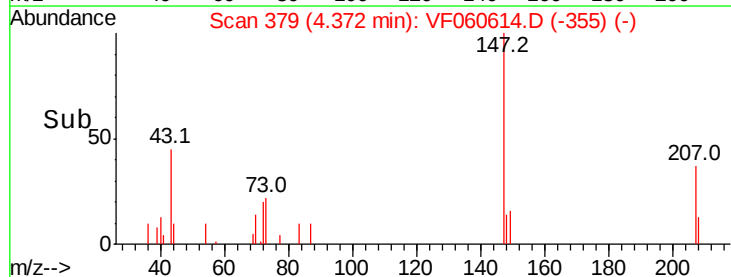
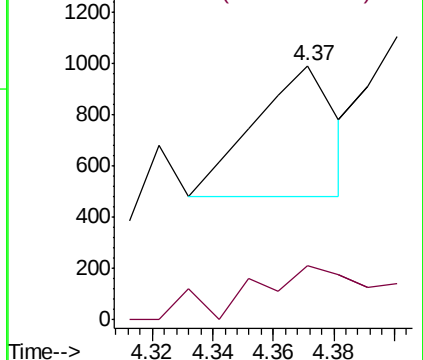


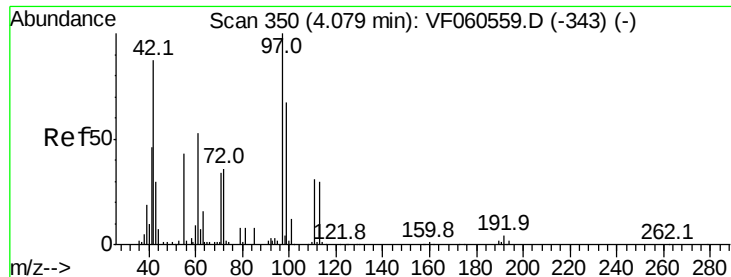
#25
2-Butanone
Concen: Below Cal
RT: 4.37 min Scan# 379
Delta R.T. 0.04 min
Lab File: VF060614.D
Acq: 6 Nov 2018 15:59

Tgt Ion: 43 Resp: 948
Ion Ratio Lower Upper
43 100
72 21.3 16.2 24.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.10 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

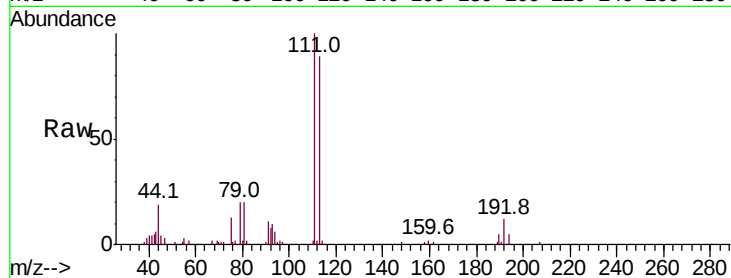
Tot Ion: 42 Resp: 1177

Ion Ratio Lower Upper

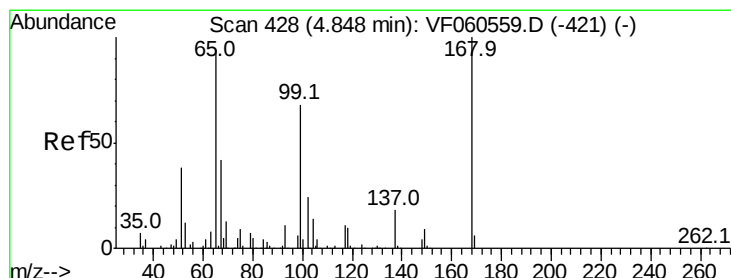
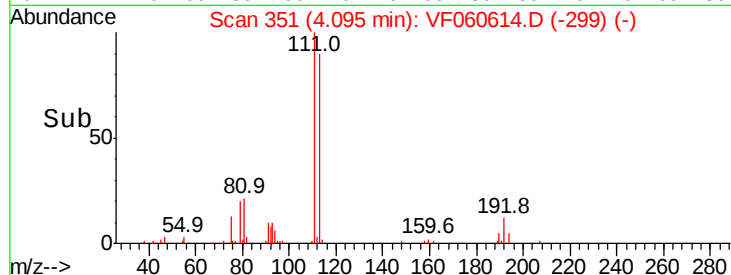
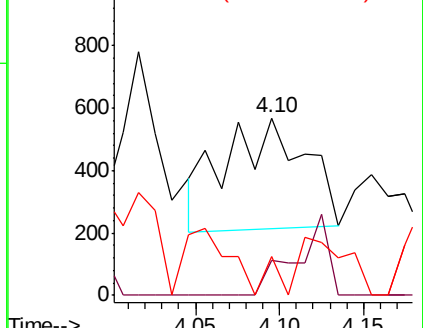
42 100

72 0.0 31.4 47.0#

71 0.0 31.8 47.6#



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



#33

1,2-Dichloroethane-d4

Concen: 50.616 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.02 min

Lab File: VF060614.D

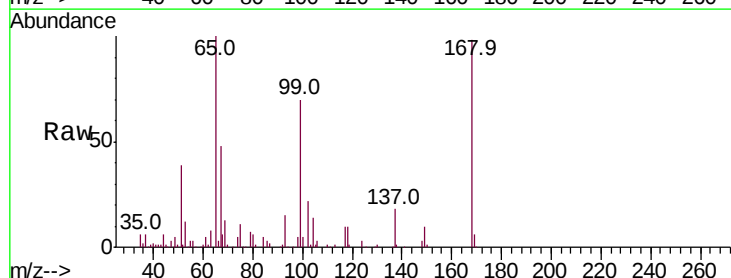
Acq: 6 Nov 2018 15:59

Tgt Ion: 65 Resp: 126863

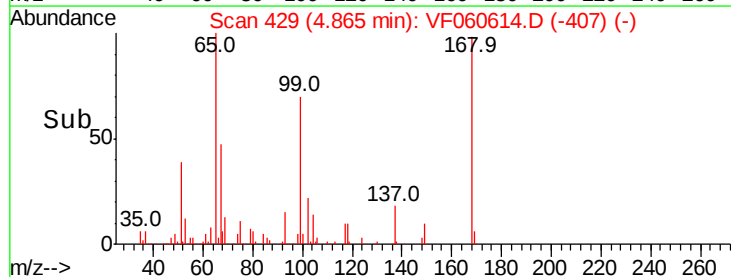
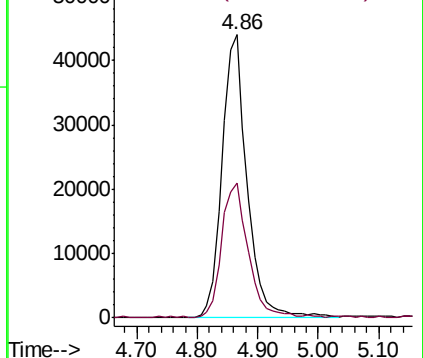
Ion Ratio Lower Upper

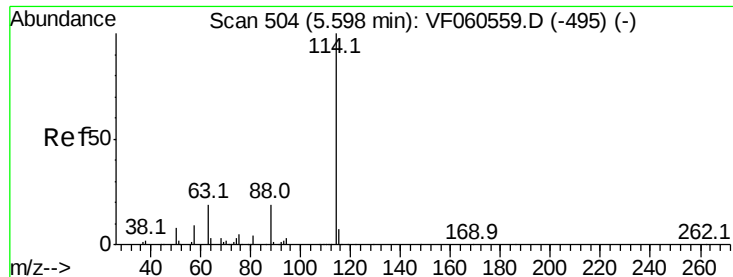
65 100

67 47.5 0.0 101.8



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.02 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

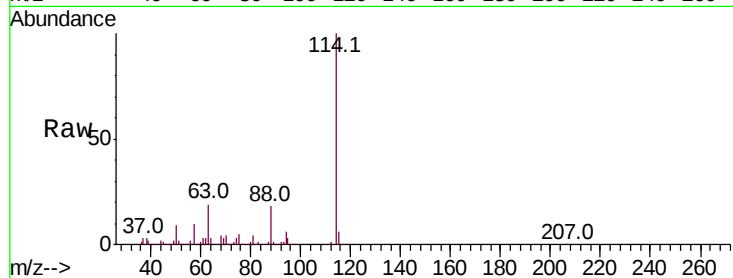
Tot Ion:114 Resp: 419895

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.0

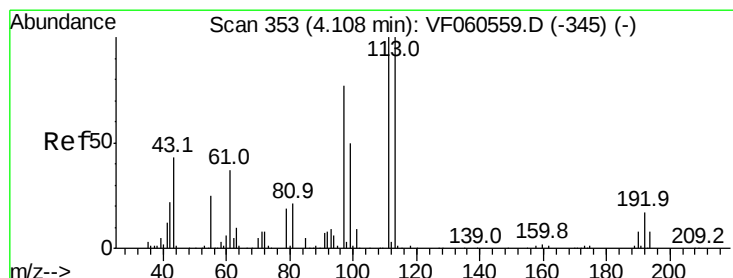
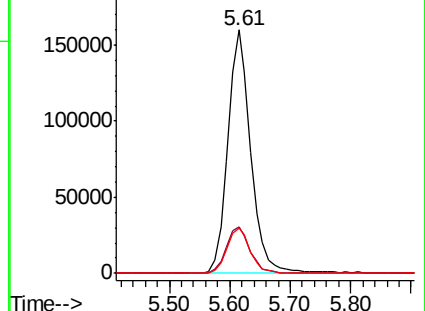
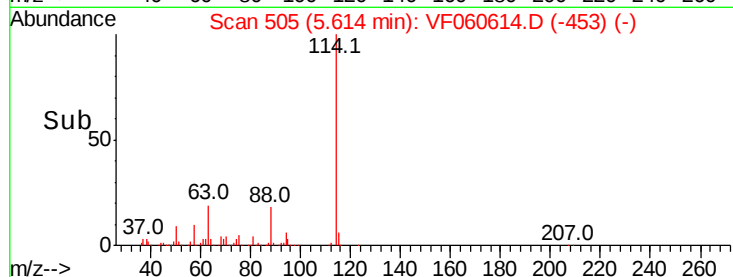
88 18.3 0.0 38.2



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: 49.604 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.02 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

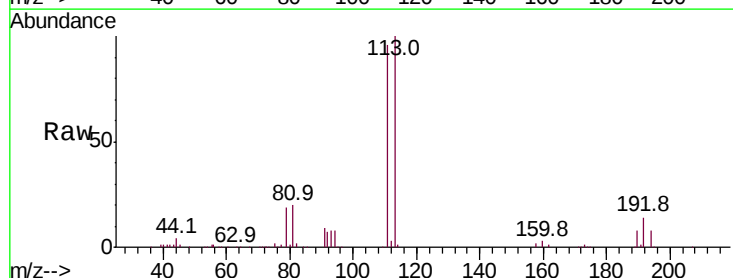
Tgt Ion:113 Resp: 160920

Ion Ratio Lower Upper

113 100

111 96.4 79.9 119.9

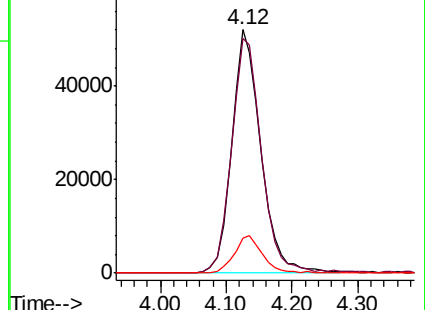
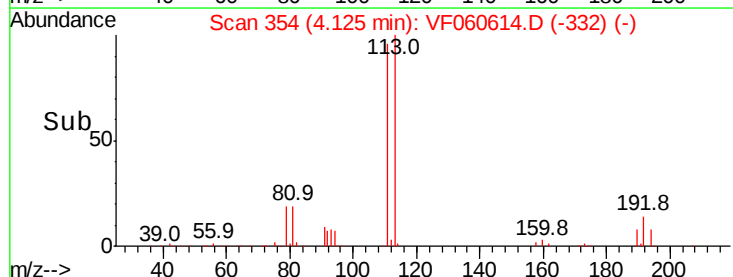
192 14.4 13.3 19.9

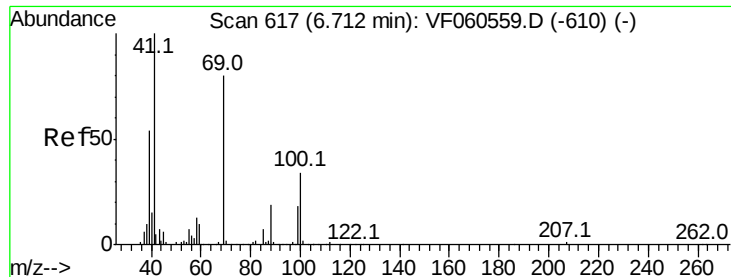


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.251 ug/l

RT: 6.51 min Scan# 596

Delta R.T. -0.20 min

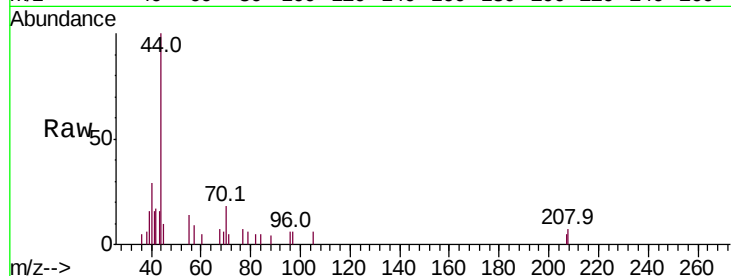
Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

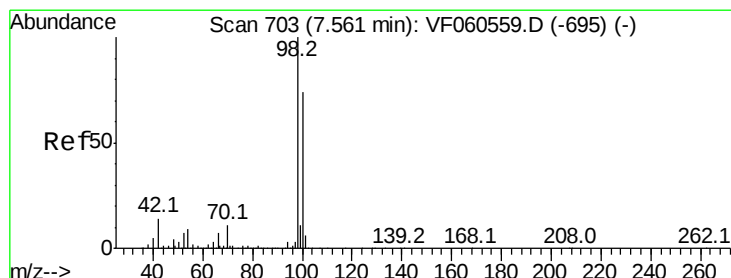
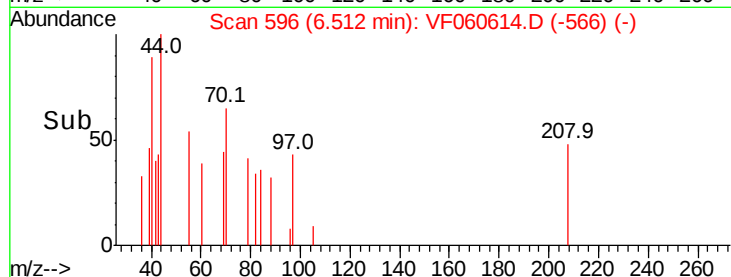
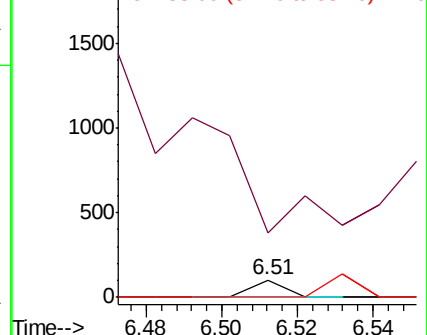
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 60

Ion	Ratio	Lower	Upper
88	100		
43	370.6	61.2	91.8#
58	0.0	56.9	85.3#



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: 43.439 ug/l

RT: 7.57 min Scan# 703

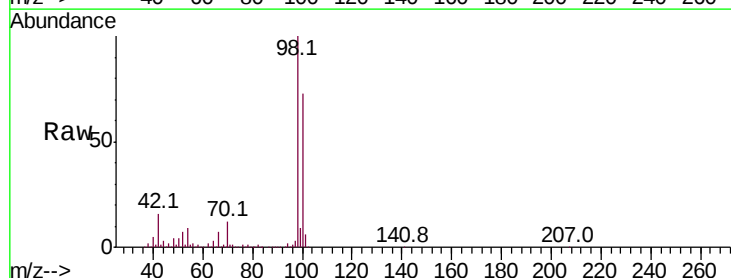
Delta R.T. 0.01 min

Lab File: VF060614.D

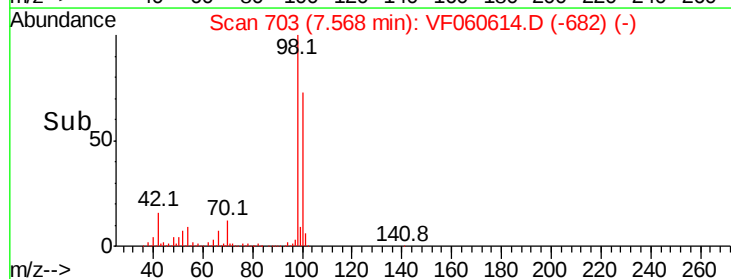
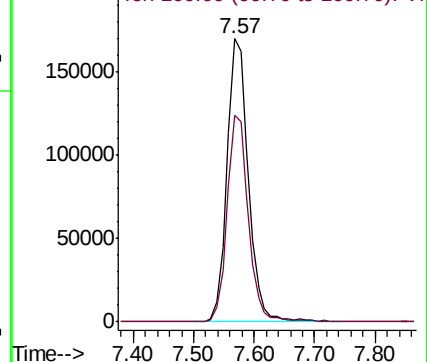
Acq: 6 Nov 2018 15:59

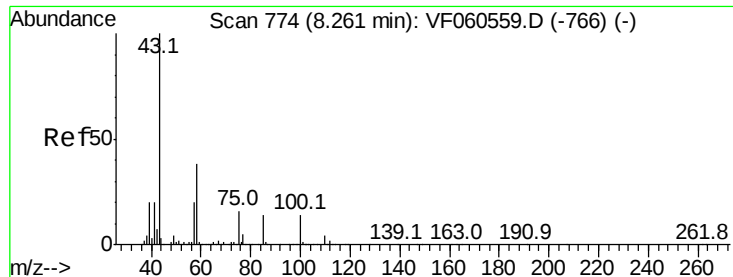
Tgt Ion: 98 Resp: 417451

Ion	Ratio	Lower	Upper
98	100		
100	72.8	59.4	89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.741 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

Instrument :

MSVOA_F

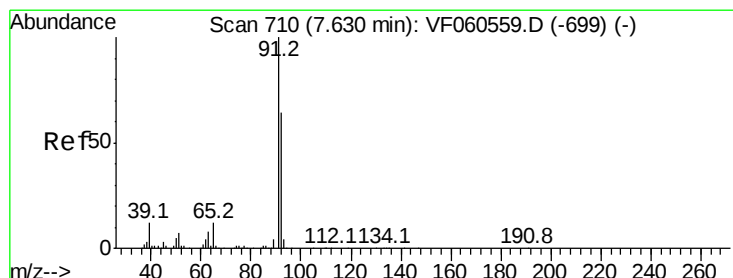
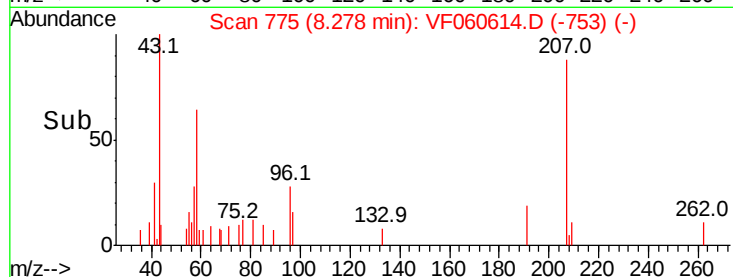
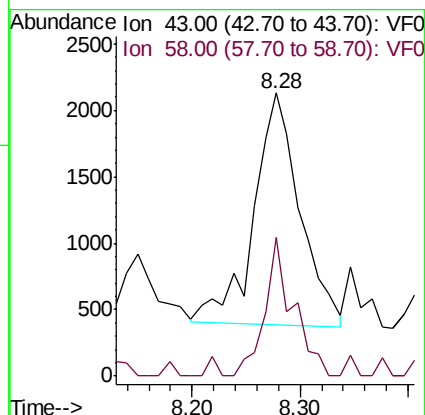
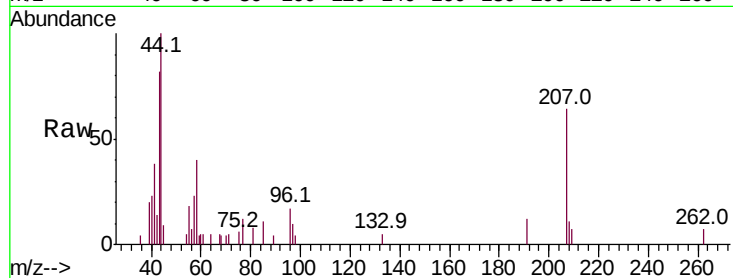
ClientSampleID :

Tot Ion: 43 Resp: 5174

Ion Ratio Lower Upper

43 100

58 49.0 30.1 45.1#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.65 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF060614.D

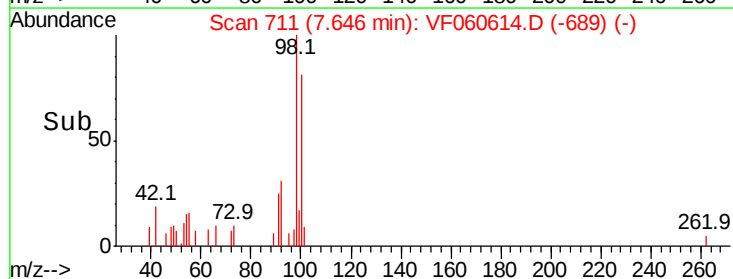
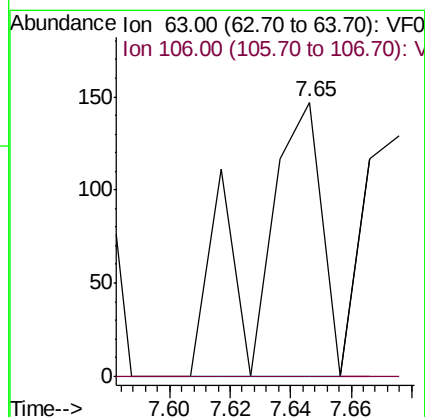
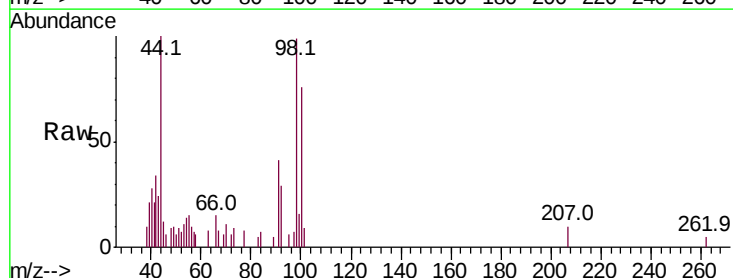
Acq: 6 Nov 2018 15:59

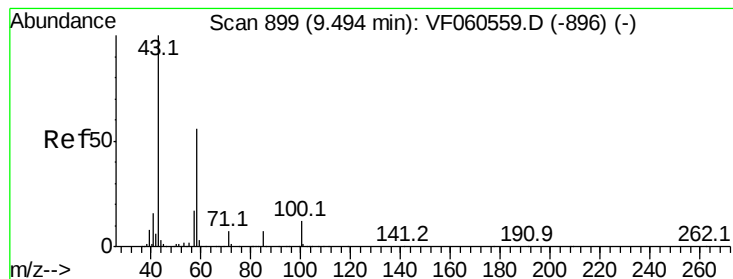
Tgt Ion: 63 Resp: 222

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#59

2-Hexanone

Concen: Below Cal

RT: 9.51 min Scan# 900

Delta R.T. 0.02 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

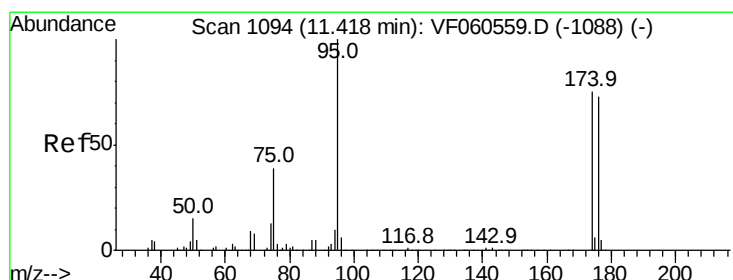
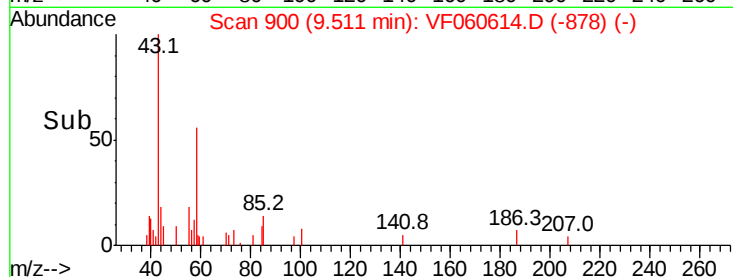
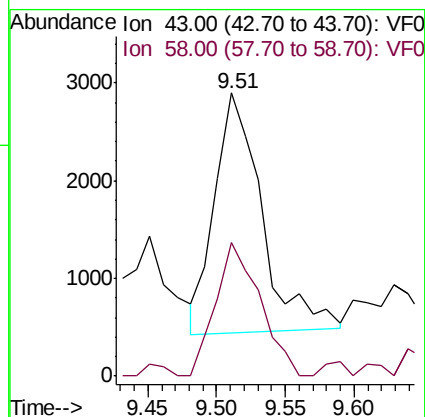
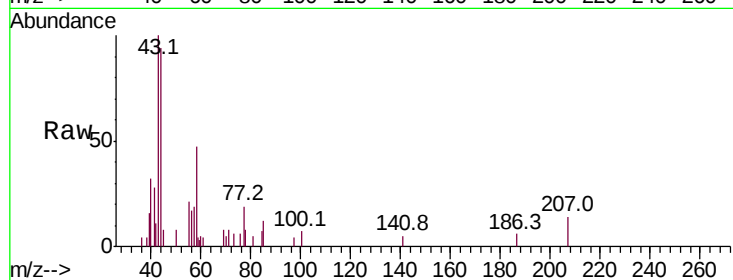
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 5787

Ion Ratio Lower Upper

43 100

58 47.2 26.1 78.3



#62

4-Bromofluorobenzene

Concen: 41.918 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF060614.D

Acq: 6 Nov 2018 15:59

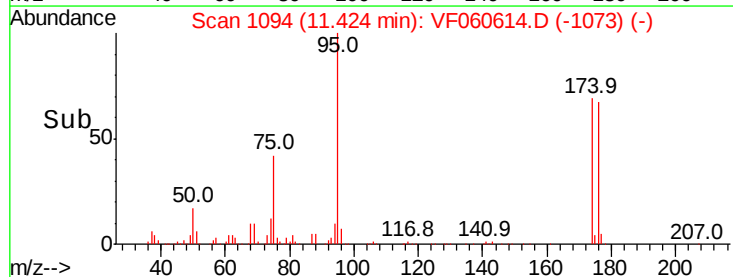
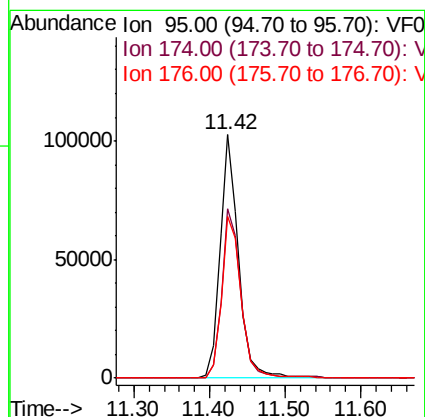
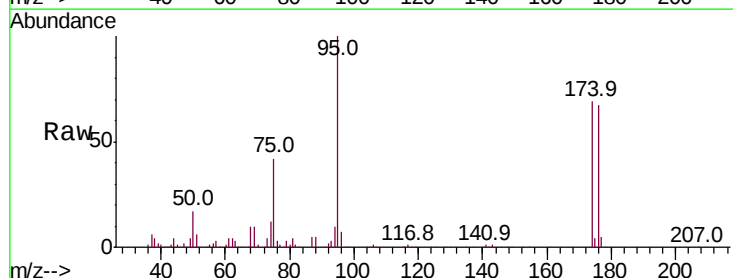
Tgt Ion: 95 Resp: 176206

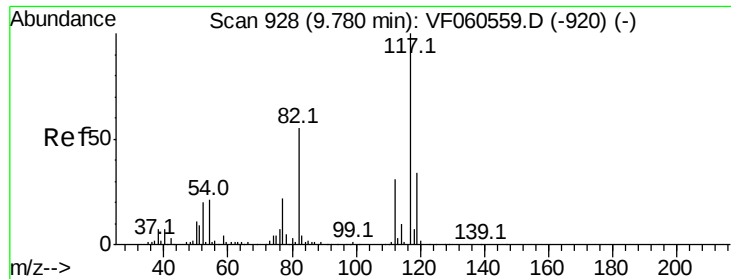
Ion Ratio Lower Upper

95 100

174 69.4 0.0 149.0

176 66.6 0.0 145.6

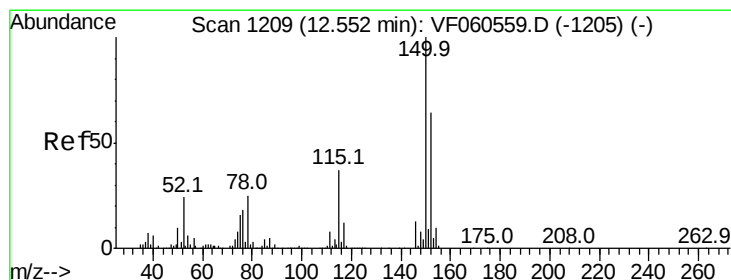
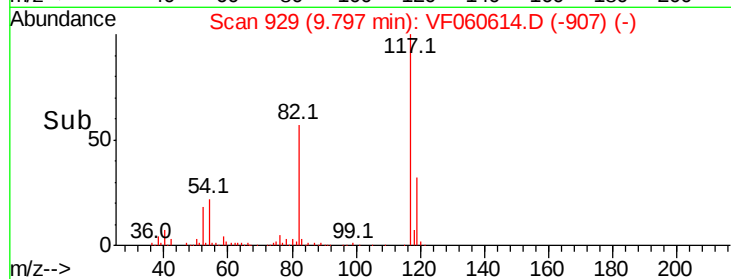
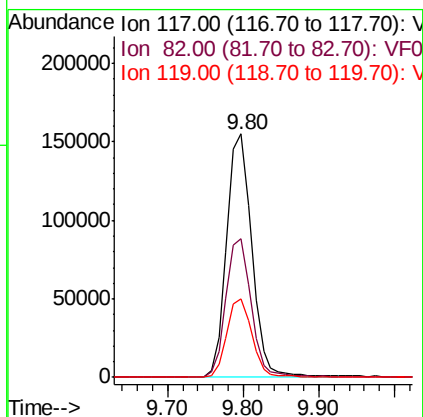
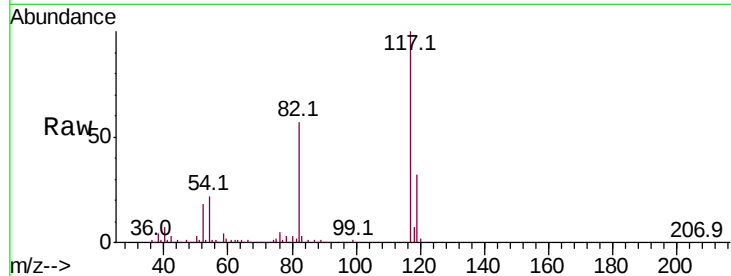




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.02 min
Lab File: VF060614.D
Acq: 6 Nov 2018 15:59

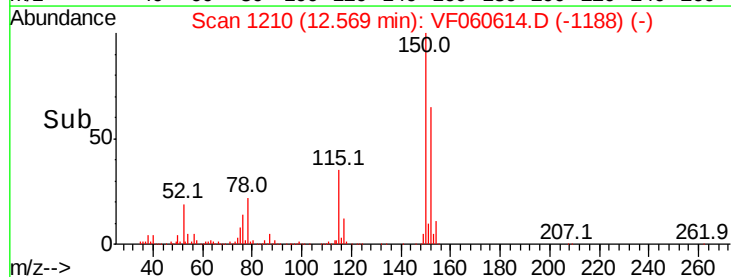
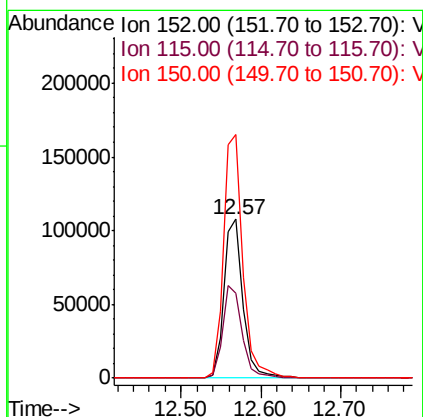
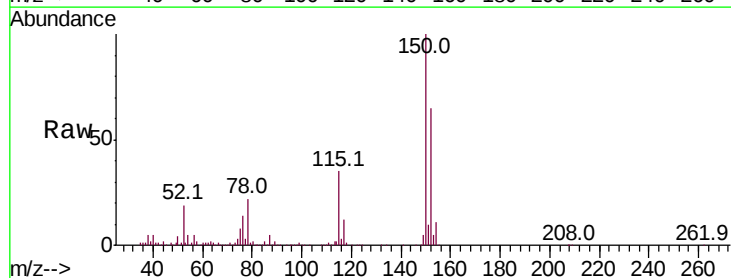
Instrument :
MSVOA_F
ClientSampled :

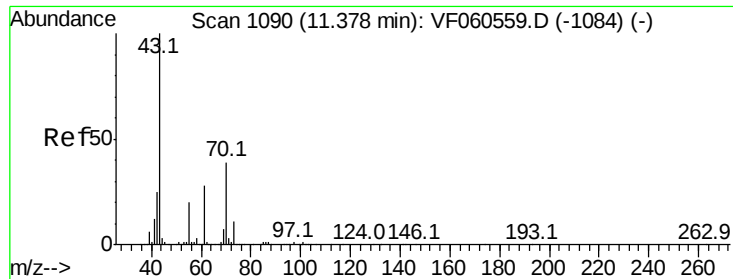
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.0	43.9	65.9
119	32.4	27.4	41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. 0.02 min
Lab File: VF060614.D
Acq: 6 Nov 2018 15:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.7	29.6	88.8
150	153.1	0.0	315.6





#74
 N-amvl acetate
 Concen: Below Cal
 RT: 11.39 min Scan# 1090
 Delta R.T. 0.01 min
 Lab File: VF060614.D
 Acq: 6 Nov 2018 15:59

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
70	33.8	30.9	46.3
55	40.7	16.6	24.8#
61	14.0	22.0	33.0#

