

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060580.D
 Acq On : 5 Nov 2018 19:15
 Operator : VA/AP
 Sample : J5741-15RE
 Misc : 6.55/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 06:56:37 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	4.87	168	249147	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	497861	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	372791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	159729	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	124139	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	4.11	113	157947	41.06	ug/l	0.00
Spiked Amount			Recovery	=	82.12%	
50) Toluene-d8	7.55	98	332453	29.18	ug/l	0.00
Spiked Amount			Recovery	=	58.36%	
62) 4-Bromofluorobenzene	11.41	95	152870	30.67	ug/l	0.00
Spiked Amount			Recovery	=	61.34%	

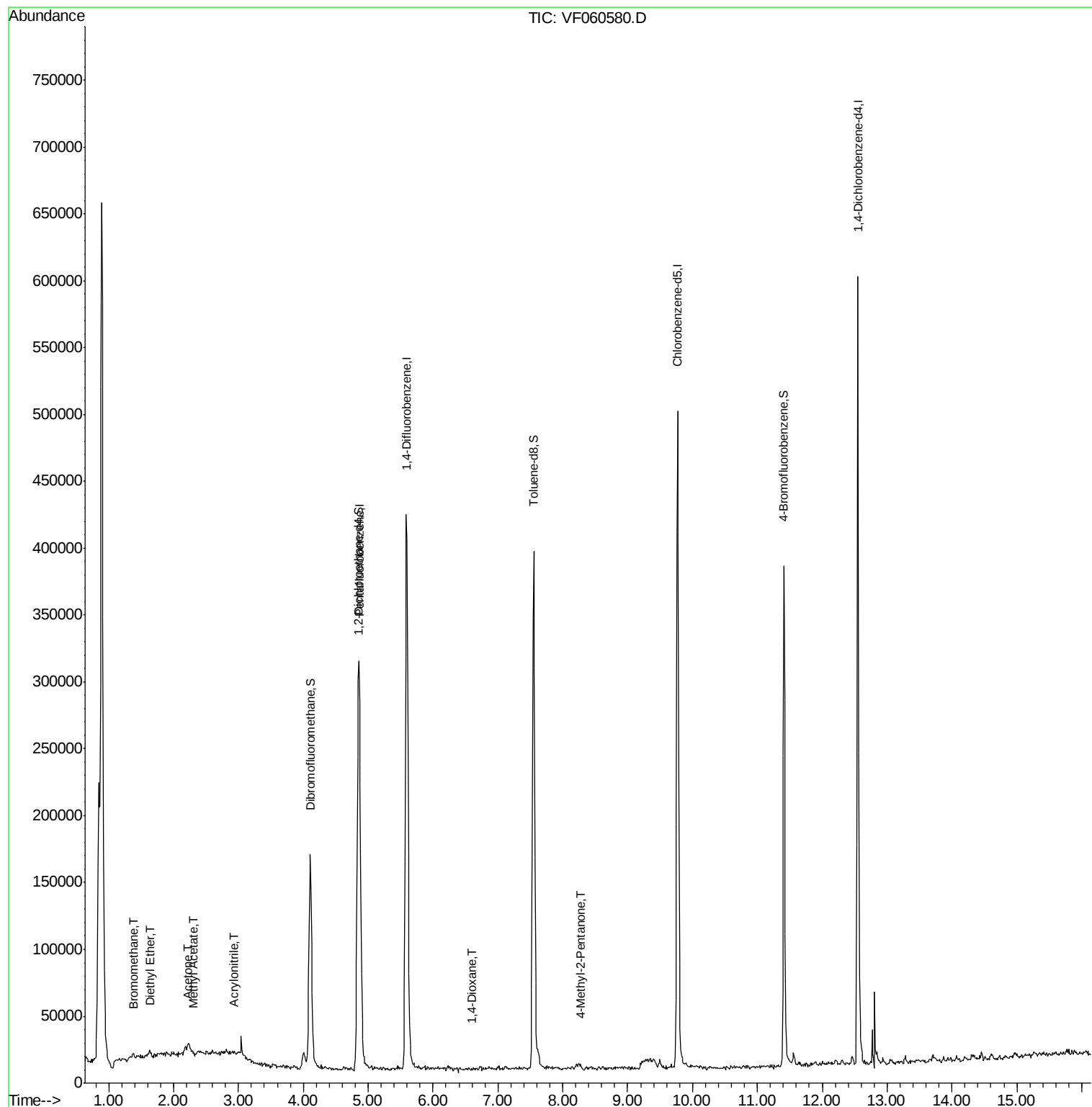
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	186	Below Cal	#	41
5) Bromomethane	1.38	94	1569	1.391	ug/l #	28
6) Chloroethane	1.39	64	166	Below Cal	#	40
8) Diethyl Ether	1.62	74	1038	1.489	ug/l #	1
11) Tert butyl alcohol	2.56	59	468	Below Cal	#	1
13) Acrolein	1.98	56	450	Below Cal	#	11
15) Acrylonitrile	2.94	53	344	1.147	ug/l #	34
16) Acetone	2.22	43	6396	10.783	ug/l	92
18) Methyl Acetate	2.31	43	1528	2.122	ug/l #	77
20) Methylene Chloride	2.22	84	2719	Below Cal	#	76
25) 2-Butanone	4.34	43	2450	Below Cal	#	77
29) Tetrahydrofuran	4.07	42	1047	Below Cal	#	45
49) 1,4-Dioxane	6.60	88	166	7.585	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	4544	2.030	ug/l #	79
58) 2-Chloroethyl Vinyl ether	7.61	63	876	Below Cal		100
59) 2-Hexanone	9.50	43	5751	Below Cal	#	58
74) N-amyl acetate	11.39	43	1362	Below Cal	#	64
89) n-Butylbenzene	12.84	91	2173	Below Cal	#	74

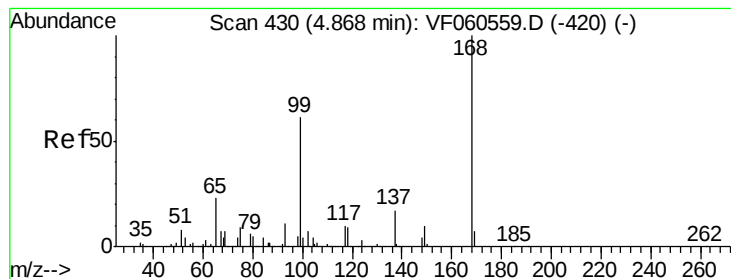
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

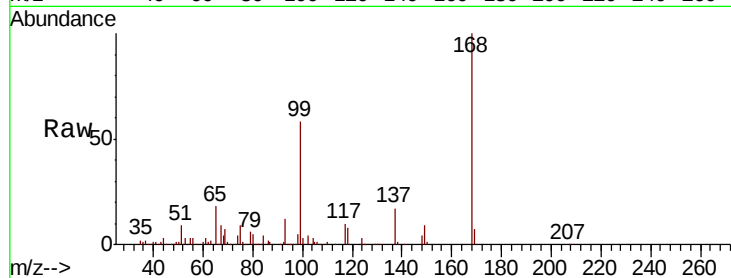
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 249147

Ion Ratio Lower Upper

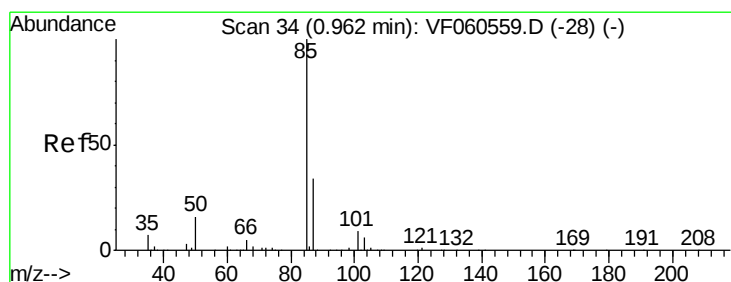
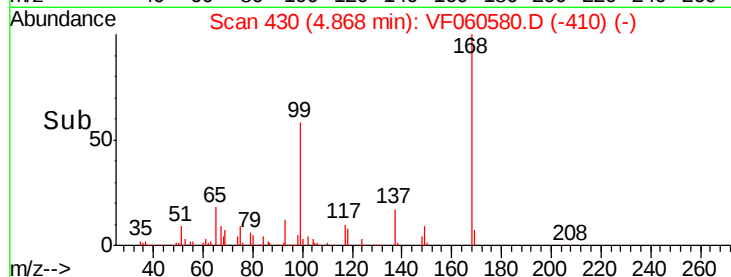
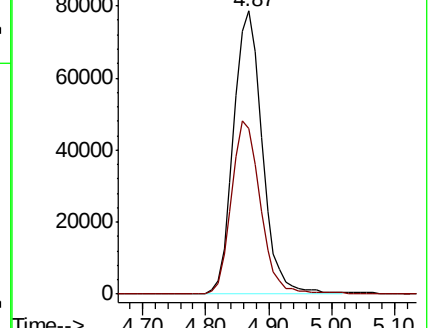
168 100

99 58.4 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060580.D

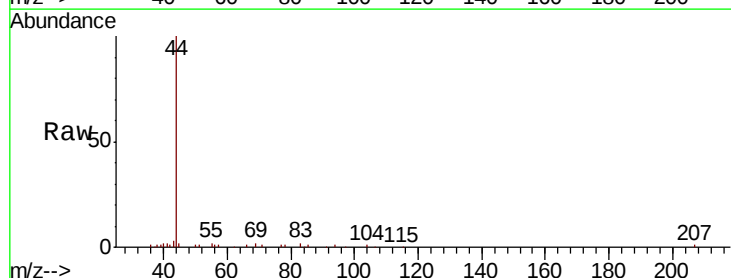
Acq: 5 Nov 2018 19:15

Tgt Ion: 85 Resp: 186

Ion Ratio Lower Upper

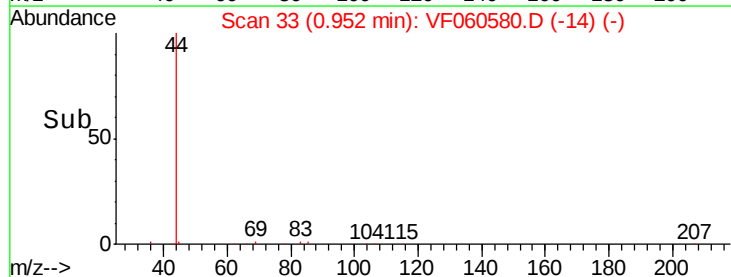
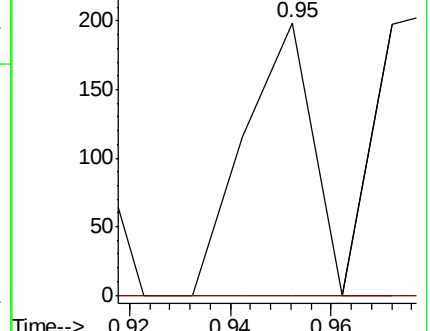
85 100

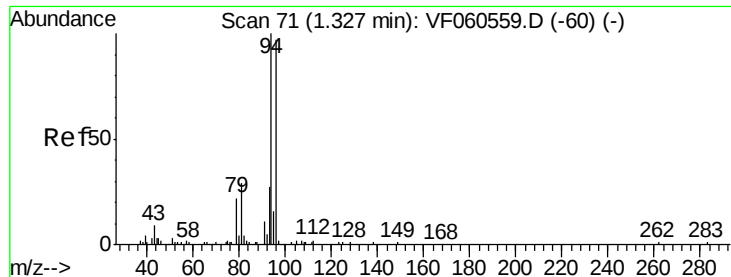
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#5

Bromomethane

Concen: 1.391 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.05 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

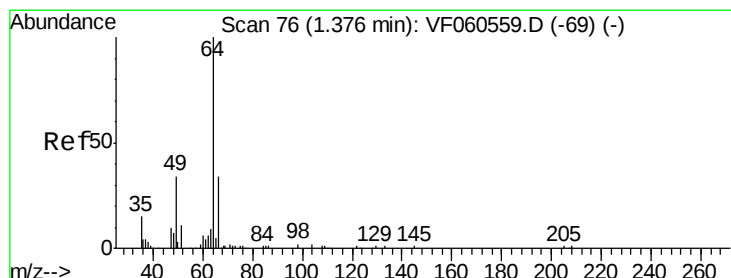
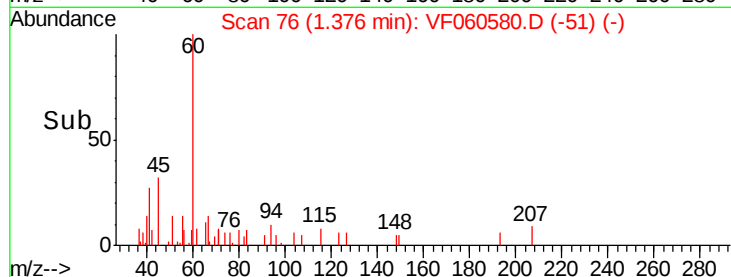
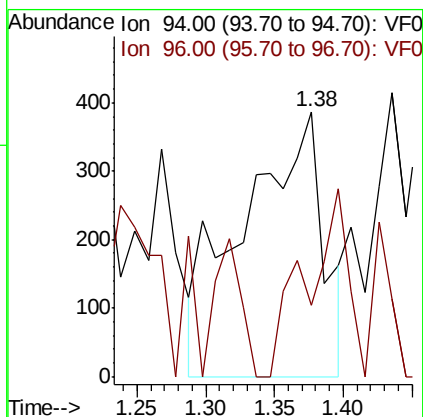
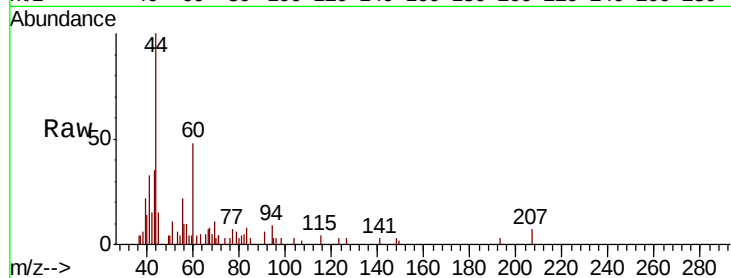
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 1569

Ion Ratio Lower Upper

94 100

96 26.9 77.9 116.9#



#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.01 min

Lab File: VF060580.D

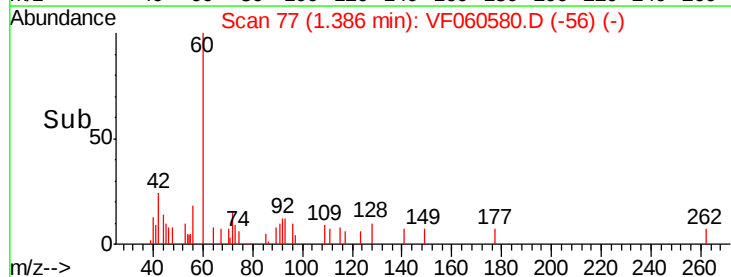
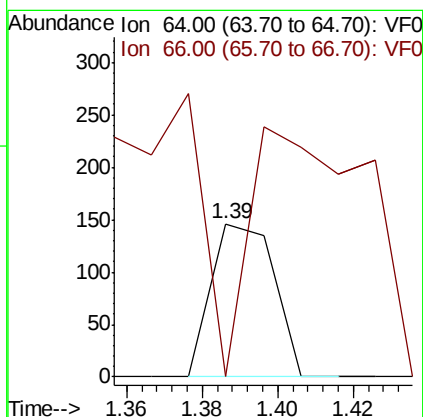
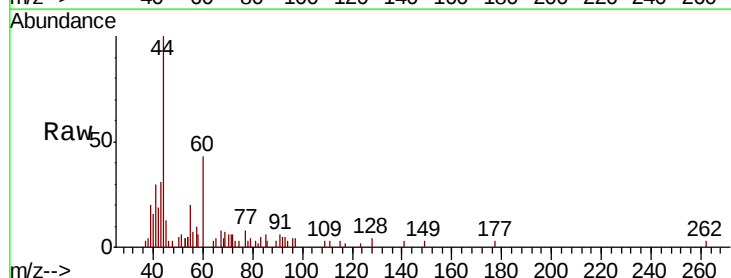
Acq: 5 Nov 2018 19:15

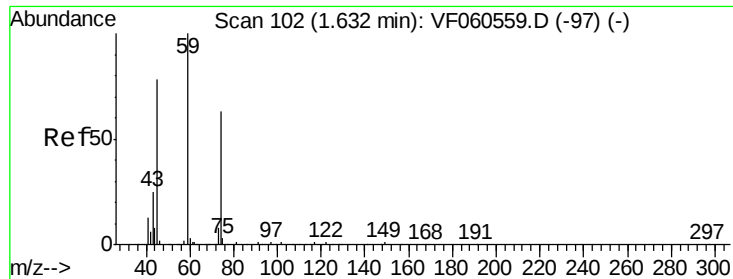
Tgt Ion: 64 Resp: 166

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#





#8

Diethyl Ether

Concen: 1.489 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

Instrument :

MSVOA_F

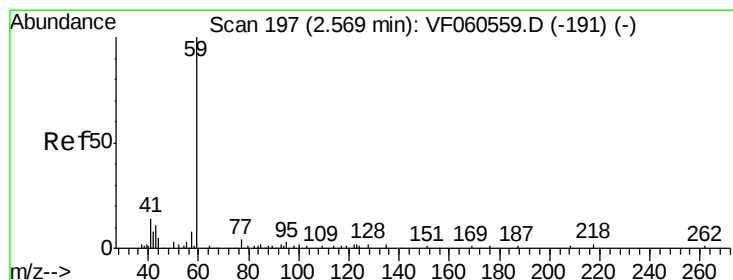
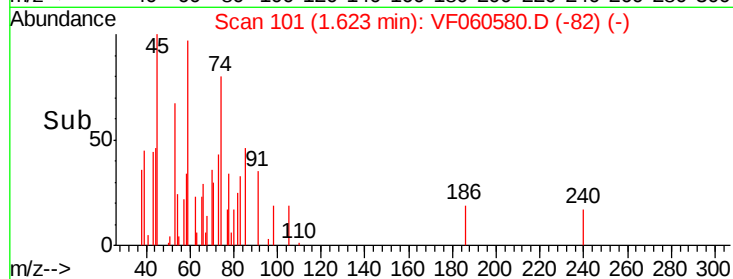
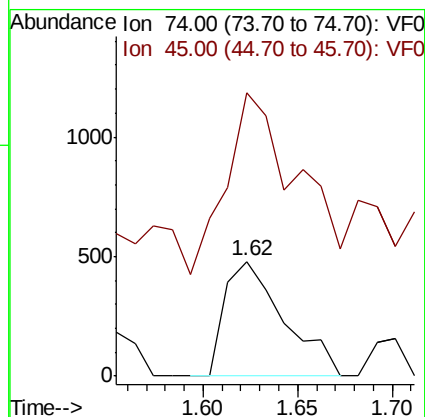
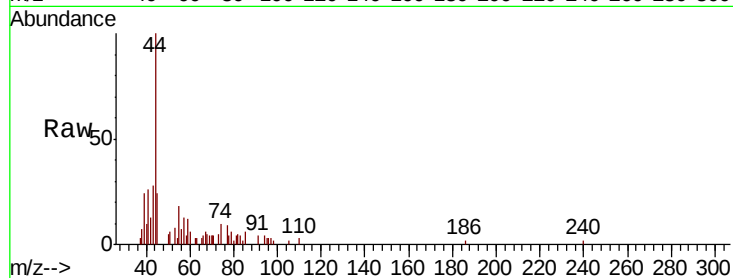
ClientSampleId :

Tot Ion: 74 Resp: 1038

Ion Ratio Lower Upper

74 100

45 247.0 63.8 191.5#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.56 min Scan# 196

Delta R.T. -0.01 min

Lab File: VF060580.D

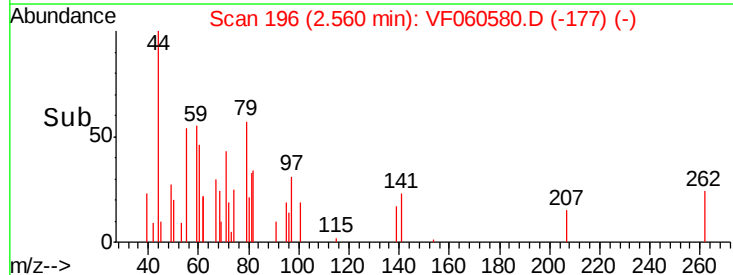
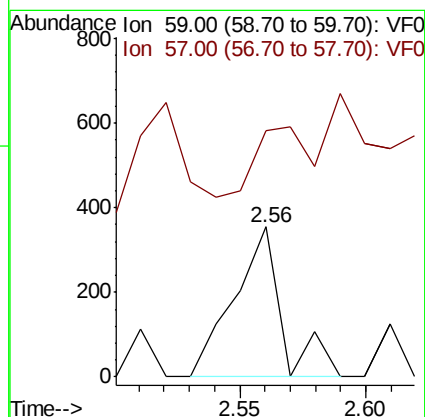
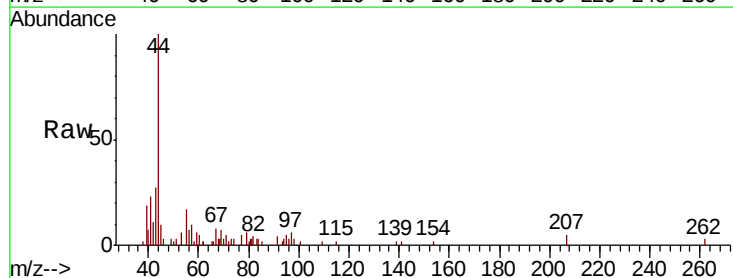
Acq: 5 Nov 2018 19:15

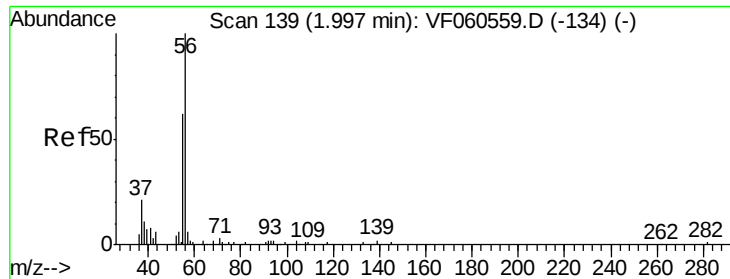
Tgt Ion: 59 Resp: 468

Ion Ratio Lower Upper

59 100

57 164.2 19.0 28.4#





#13

Acrolein

Concen: Below Cal

RT: 1.98 min Scan# 137

Delta R.T. -0.02 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

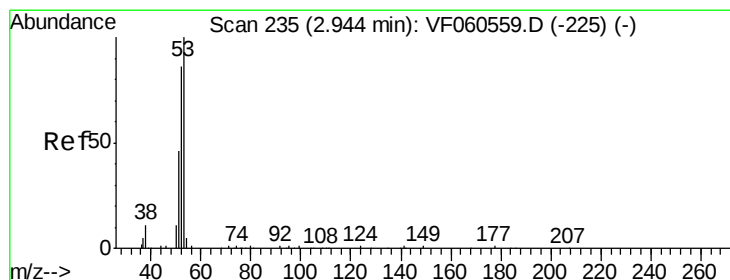
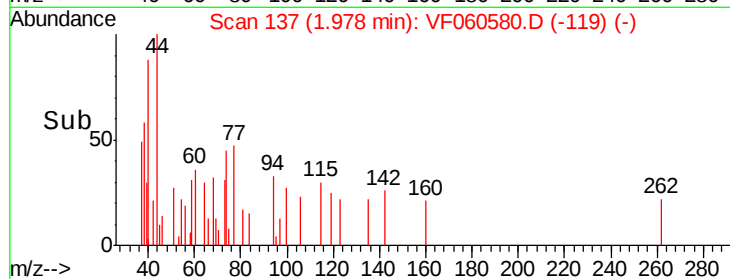
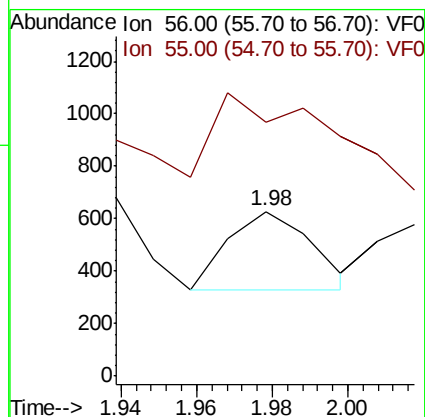
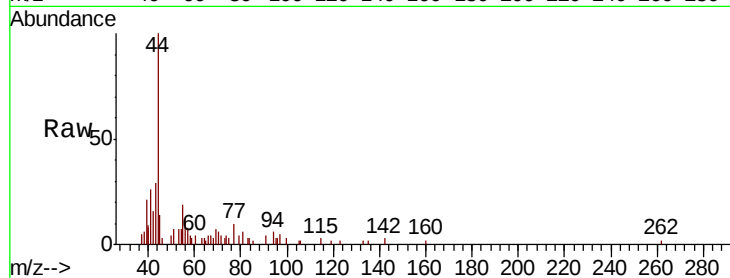
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 450

Ion Ratio Lower Upper

56 100

55 154.4 61.8 92.6#



#15

Acrylonitrile

Concen: 1.147 ug/l

RT: 2.94 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

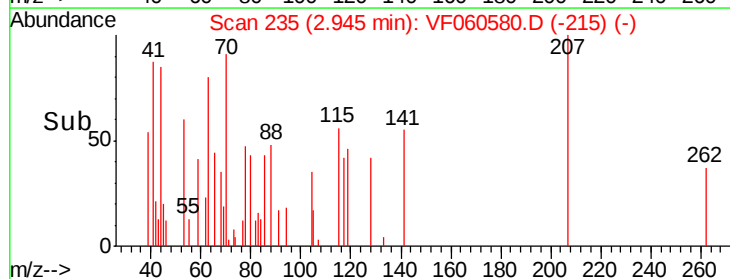
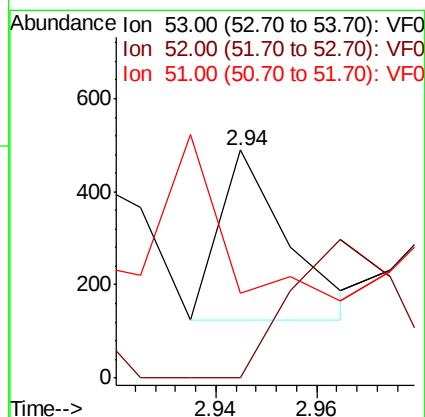
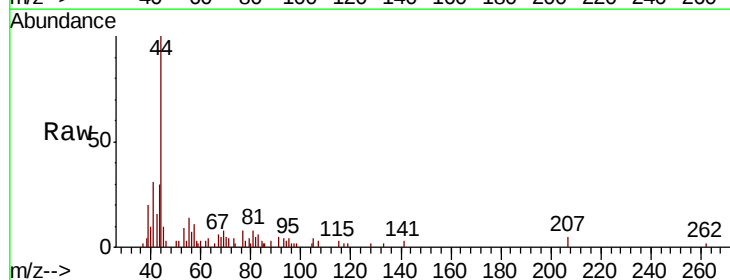
Tgt Ion: 53 Resp: 344

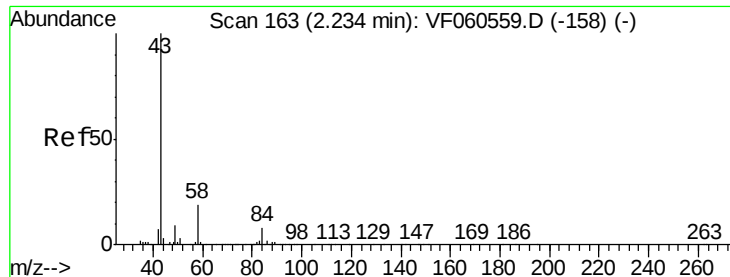
Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 37.2 38.2 57.2#





#16

Acetone

Concen: 10.783 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

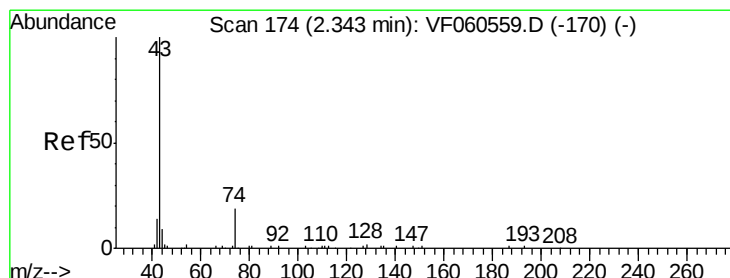
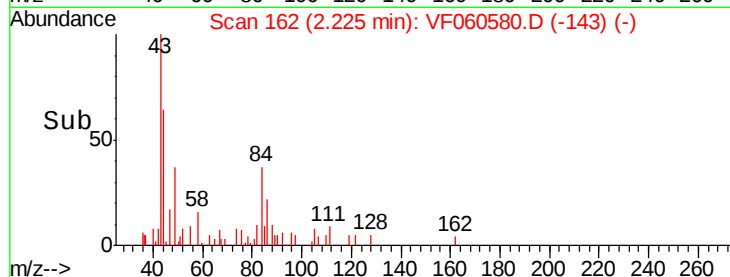
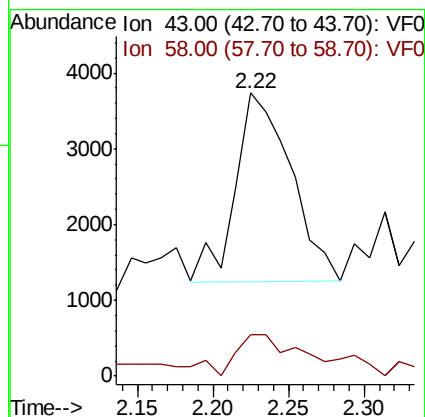
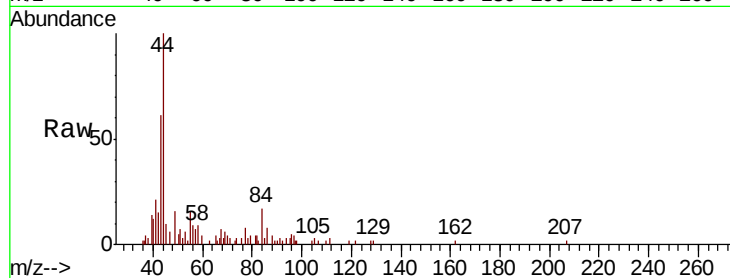
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 6396

Ion Ratio Lower Upper

43 100

58 14.8 14.6 22.0



#18

Methyl Acetate

Concen: 2.122 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.03 min

Lab File: VF060580.D

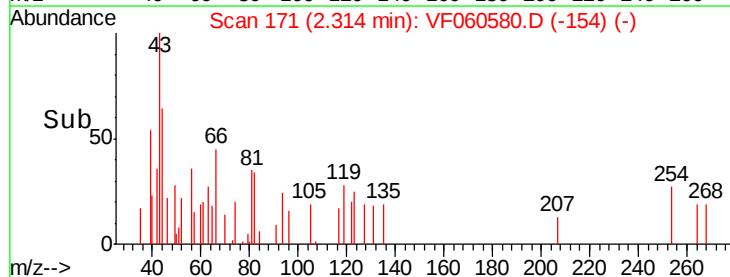
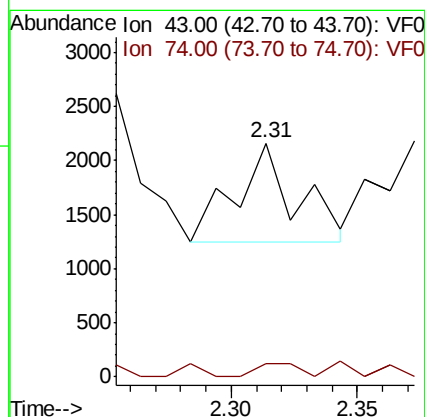
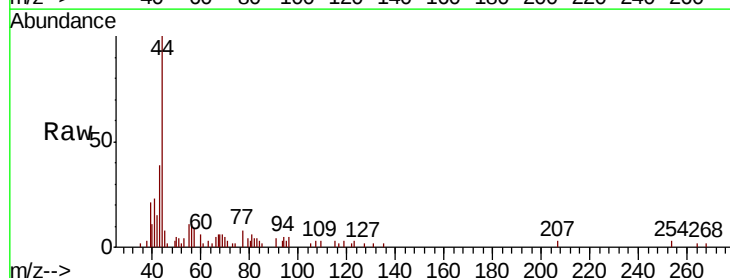
Acq: 5 Nov 2018 19:15

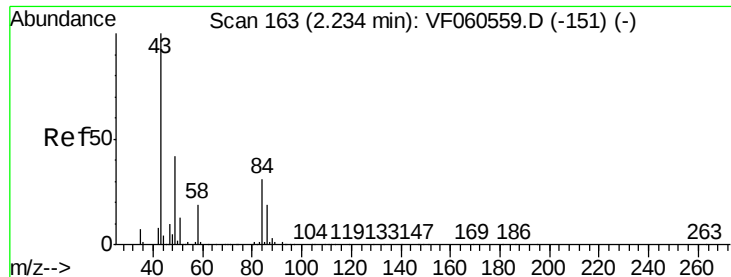
Tgt Ion: 43 Resp: 1528

Ion Ratio Lower Upper

43 100

74 5.5 12.1 18.1#

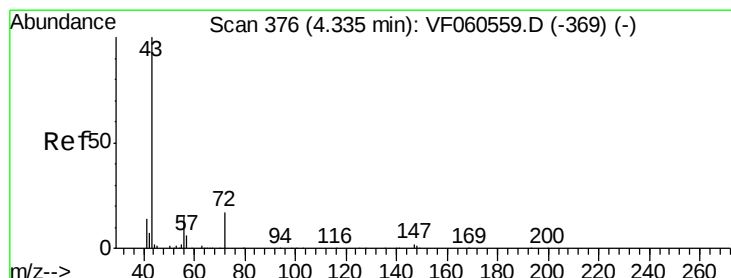
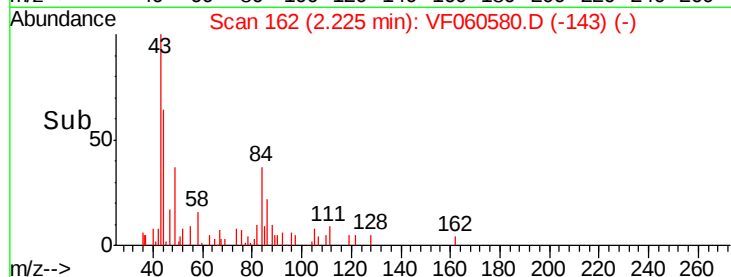
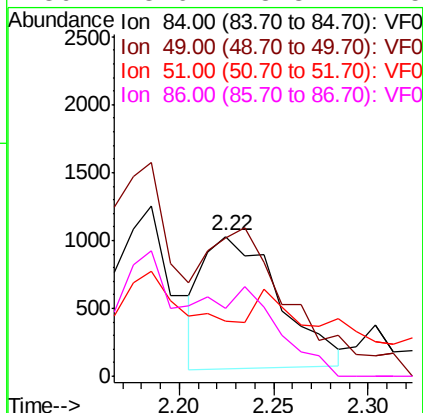
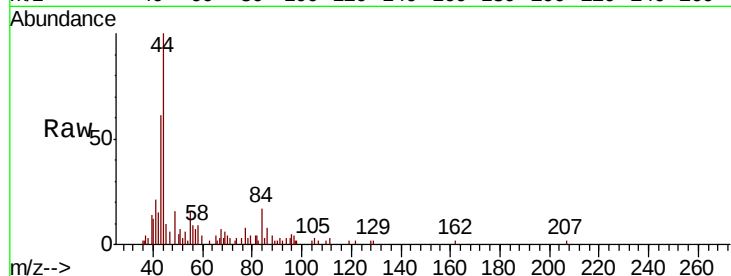




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.22 min Scan# 162
Delta R.T. -0.01 min
Lab File: VF060580.D
Acq: 5 Nov 2018 19:15

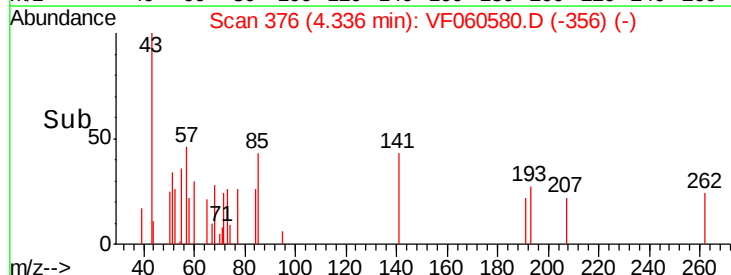
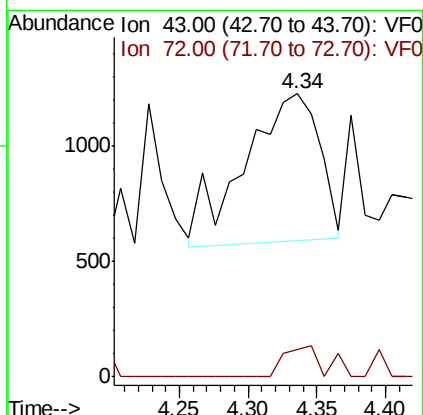
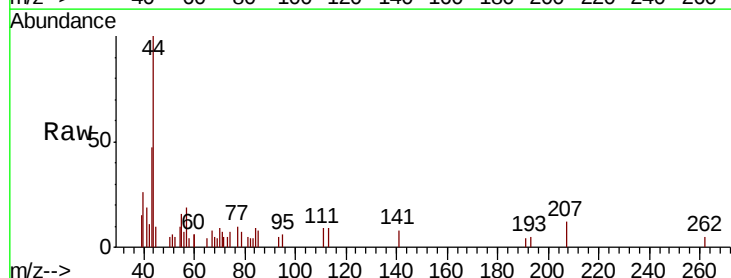
Instrument :
MSVOA_F
ClientSampleId :

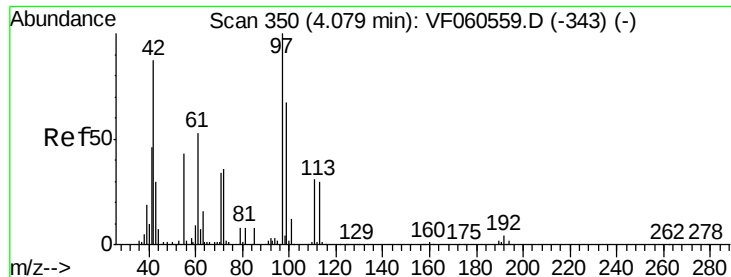
Tot Ion: 84 Resp: 2719
Ion Ratio Lower Upper
84 100
49 98.4 109.9 164.9#
51 39.7 35.8 53.8
86 48.6 48.3 72.5



#25
2-Butanone
Concen: Below Cal
RT: 4.34 min Scan# 376
Delta R.T. 0.00 min
Lab File: VF060580.D
Acq: 5 Nov 2018 19:15

Tgt Ion: 43 Resp: 2450
Ion Ratio Lower Upper
43 100
72 9.8 16.2 24.2#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

Instrument :

MSVOA_F

ClientSampleId :

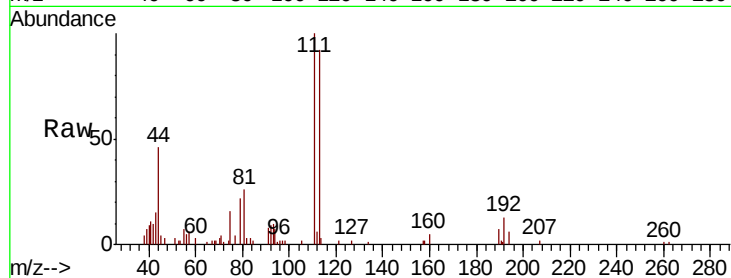
Tot Ion: 42 Resp: 1047

Ion Ratio Lower Upper

42 100

72 21.0 31.4 47.0#

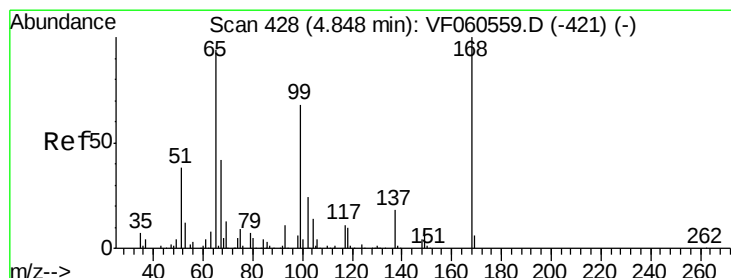
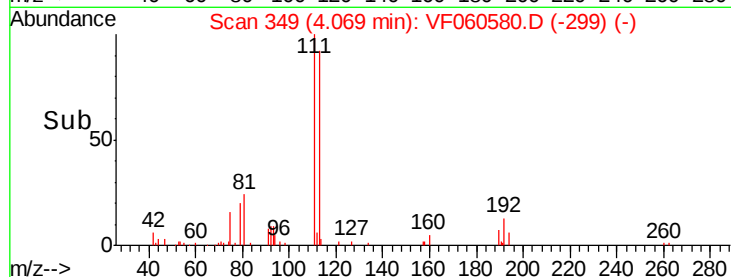
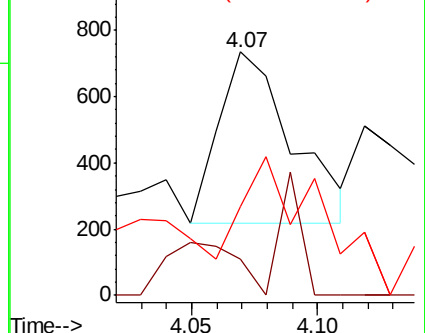
71 88.7 31.8 47.6#



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: 49.314 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF060580.D

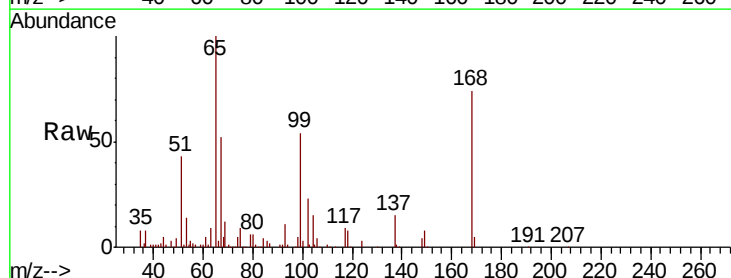
Acq: 5 Nov 2018 19:15

Tgt Ion: 65 Resp: 124139

Ion Ratio Lower Upper

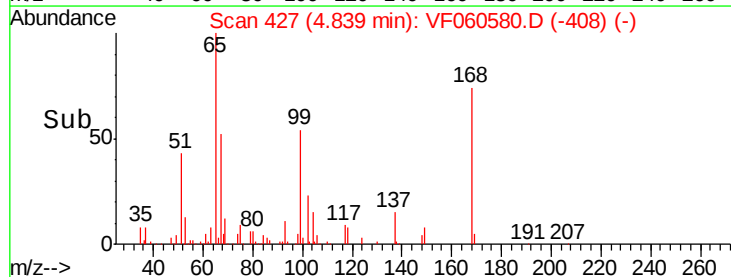
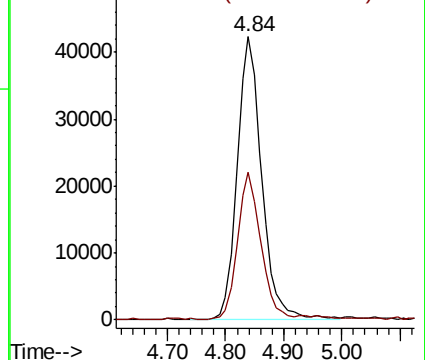
65 100

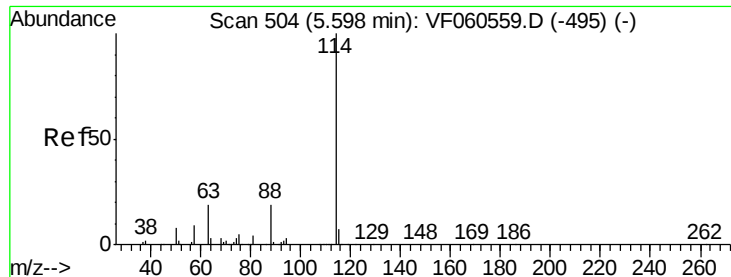
67 52.1 0.0 101.8



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: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

Instrument :

MSVOA_F

ClientSampleId :

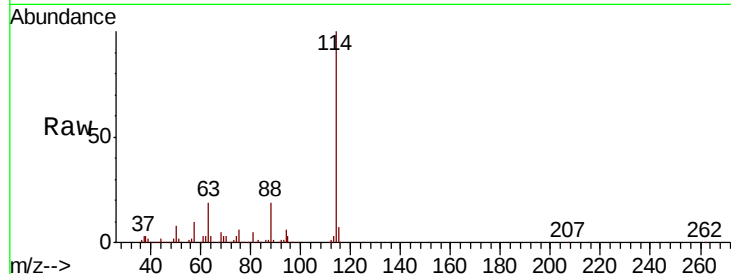
Tot Ion:114 Resp: 497861

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.0

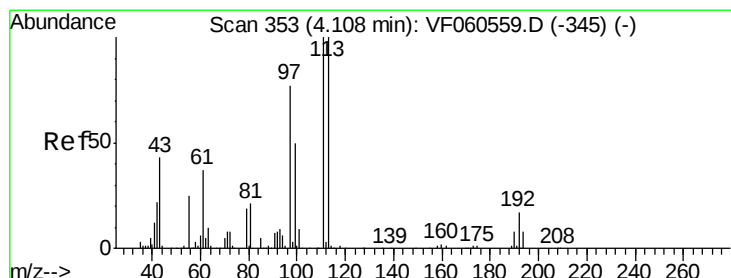
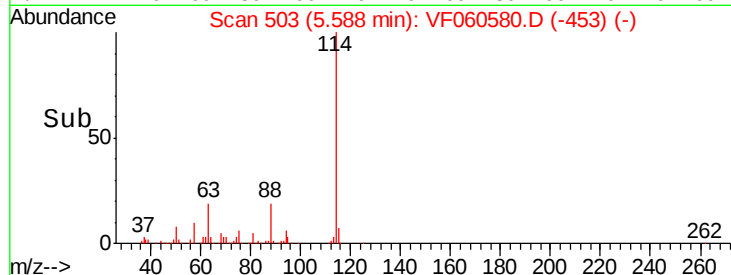
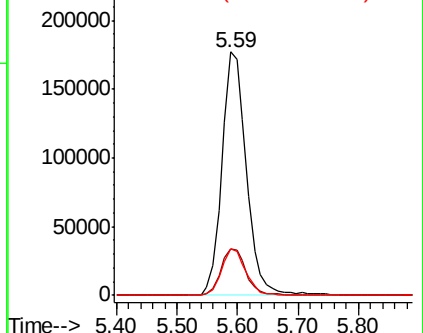
88 19.0 0.0 38.2



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: 41.063 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

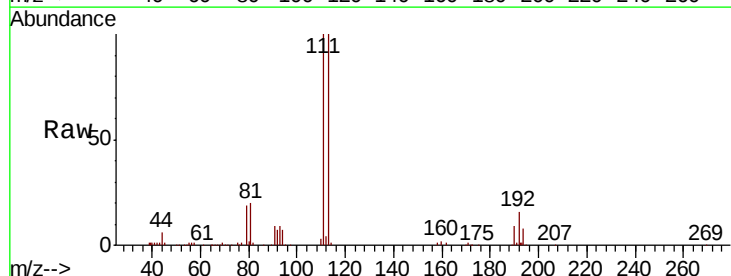
Tgt Ion:113 Resp: 157947

Ion Ratio Lower Upper

113 100

111 100.3 79.9 119.9

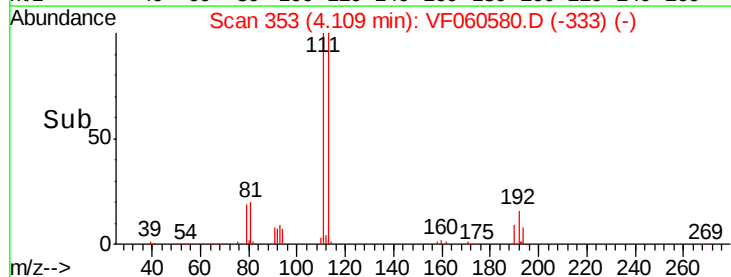
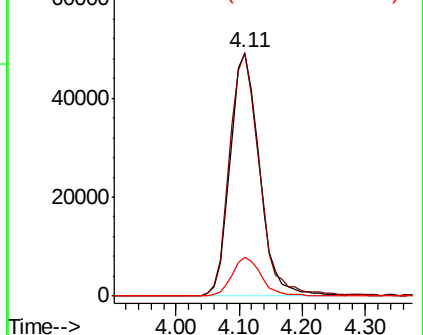
192 16.3 13.3 19.9

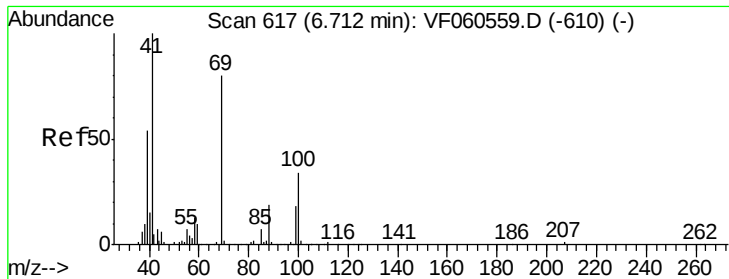


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 7.585 ug/l

RT: 6.60 min Scan# 606

Delta R.T. -0.11 min

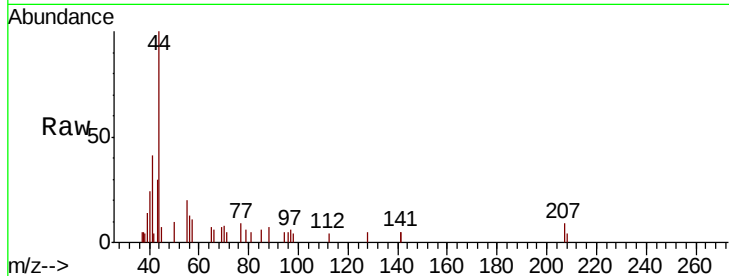
Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 166

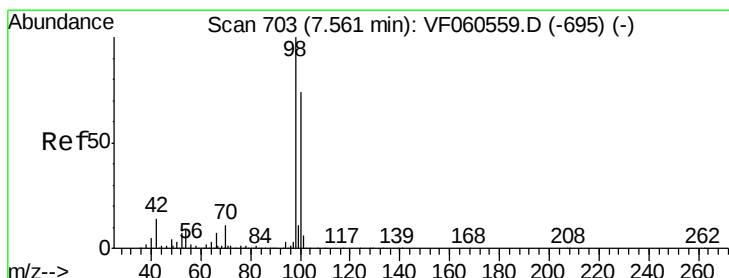
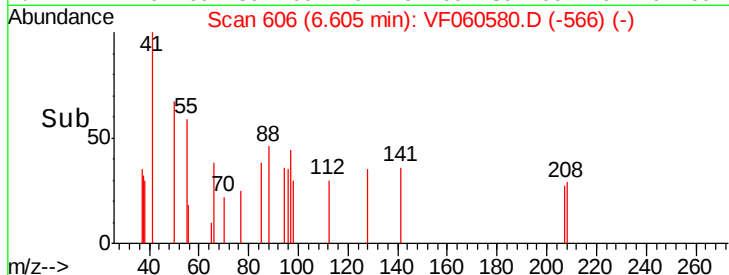
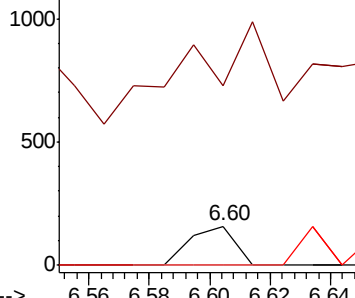
Ion	Ratio	Lower	Upper
88	100		
43	458.5	61.2	91.8#
58	0.0	56.9	85.3#



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: 29.177 ug/l

RT: 7.55 min Scan# 702

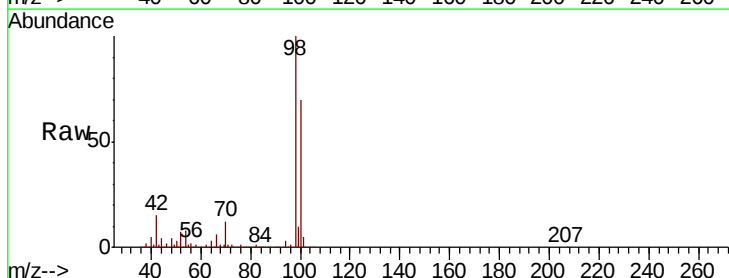
Delta R.T. -0.01 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

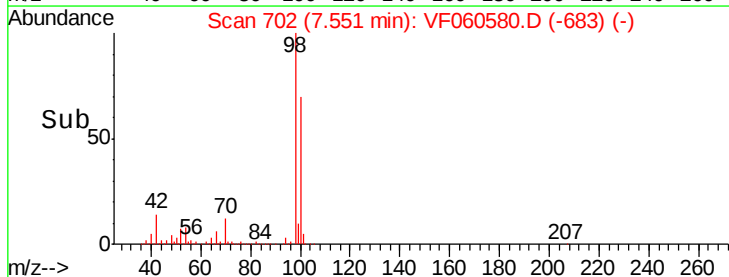
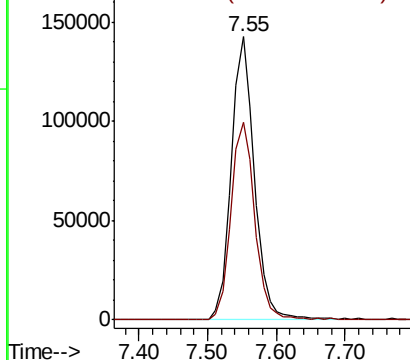
Tgt Ion: 98 Resp: 332453

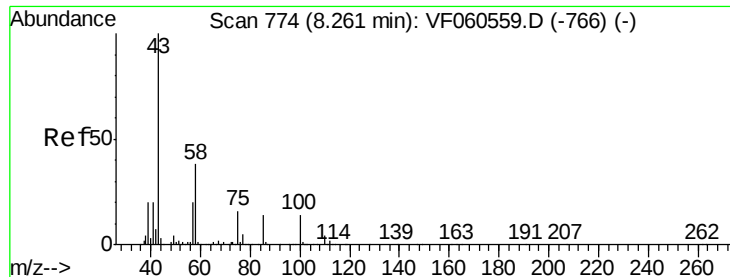
Ion	Ratio	Lower	Upper
98	100		
100	70.0	59.4	89.2



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: 2.030 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF060580.D

Acq: 5 Nov 2018 19:15

Instrument :

MSVOA_F

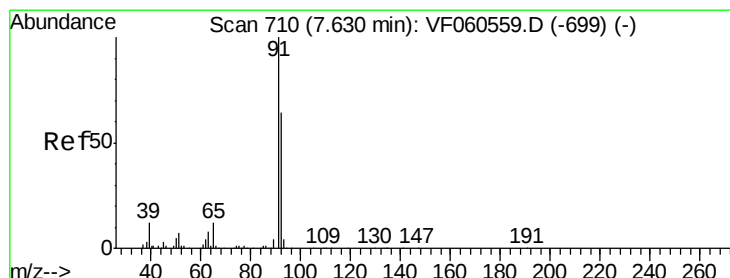
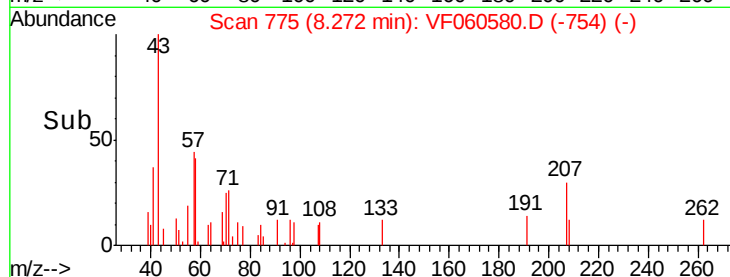
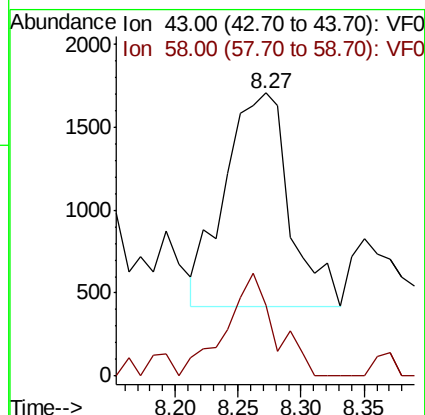
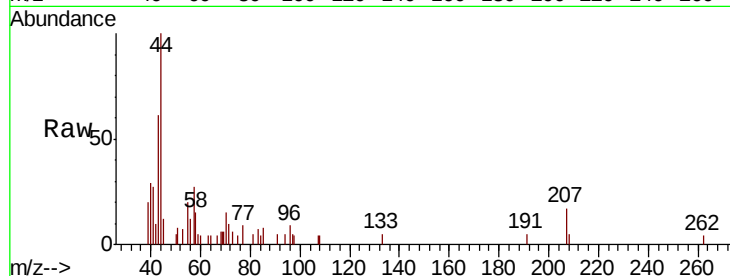
ClientSampleId :

Tot Ion: 43 Resp: 4544

Ion Ratio Lower Upper

43 100

58 25.2 30.1 45.1#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060580.D

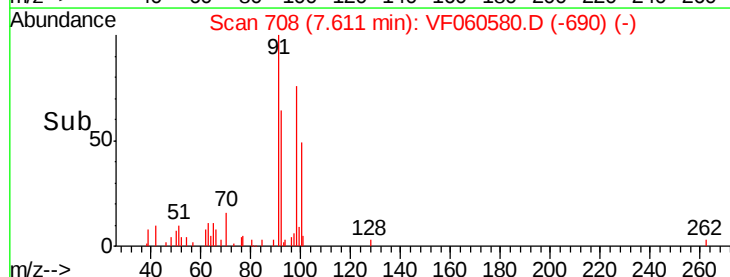
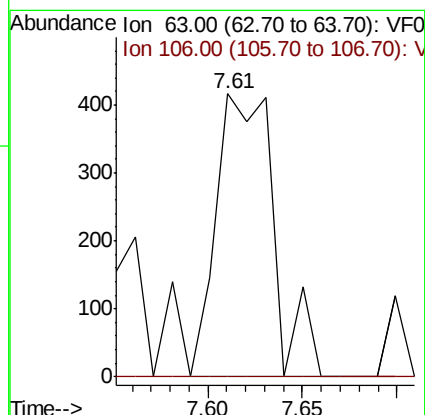
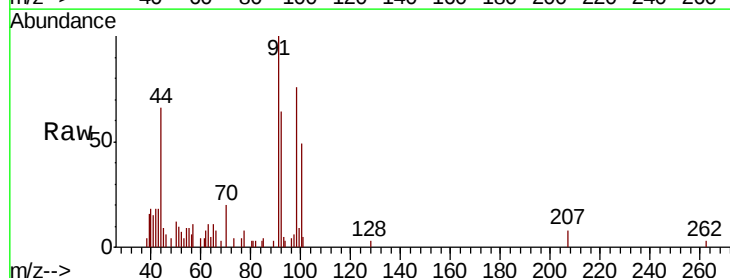
Acq: 5 Nov 2018 19:15

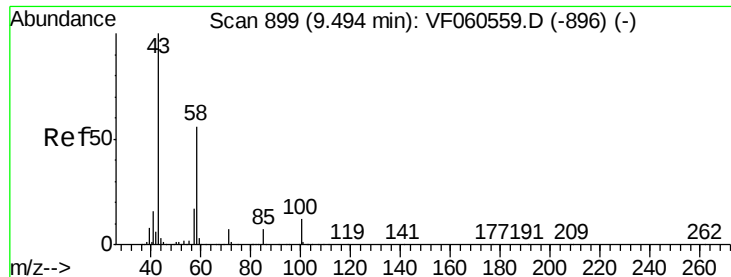
Tgt Ion: 63 Resp: 876

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

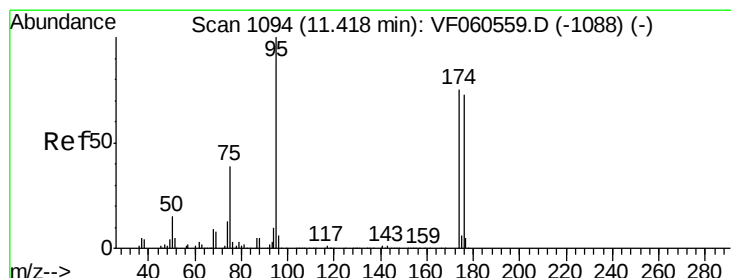
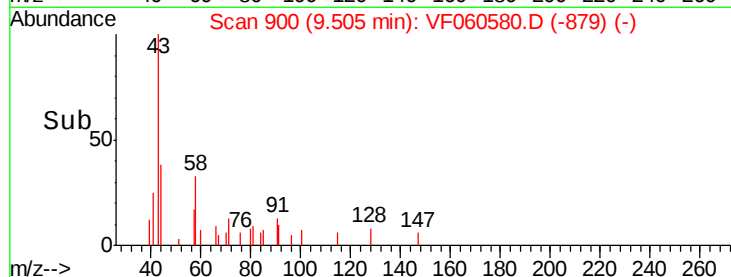
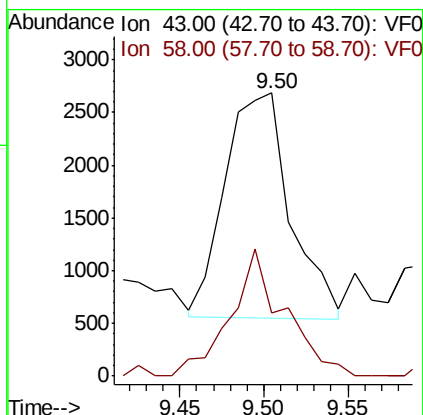
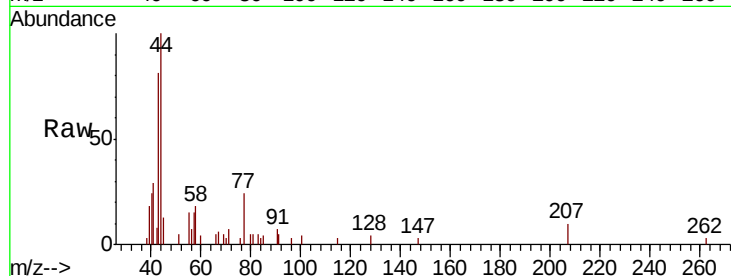




#59
2-Hexanone
Concen: Below Cal
RT: 9.50 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF060580.D
Acq: 5 Nov 2018 19:15

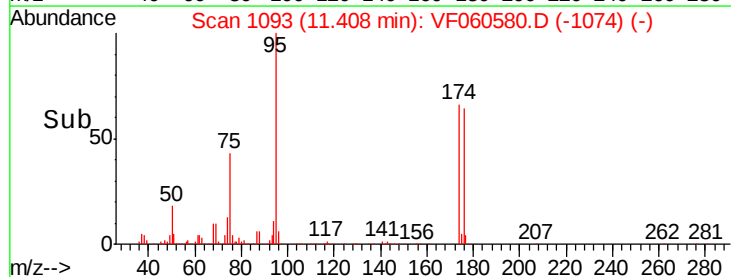
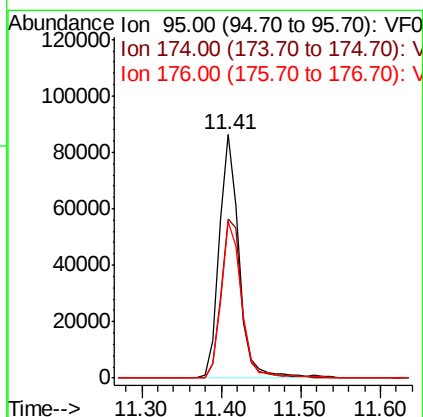
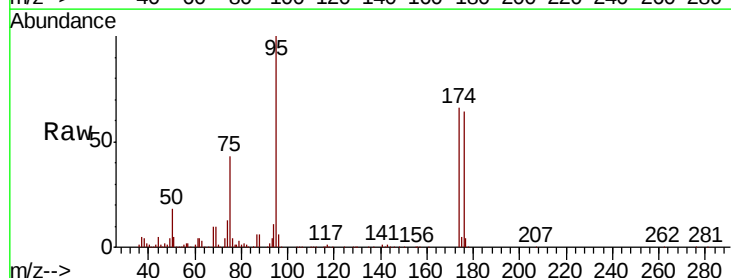
Instrument :
MSVOA_F
ClientSampleId :

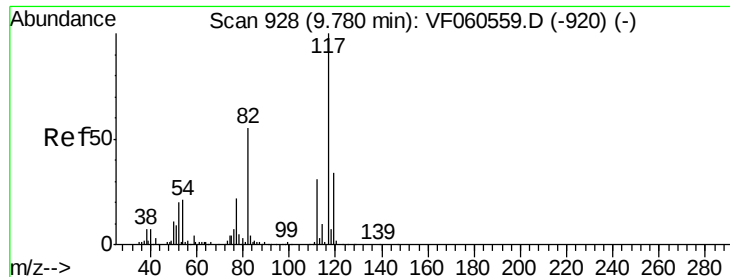
Tot Ion: 43 Resp: 5751
Ion Ratio Lower Upper
43 100
58 22.5 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 30.672 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060580.D
Acq: 5 Nov 2018 19:15

Tgt Ion: 95 Resp: 152870
Ion Ratio Lower Upper
95 100
174 65.5 0.0 149.0
176 64.0 0.0 145.6

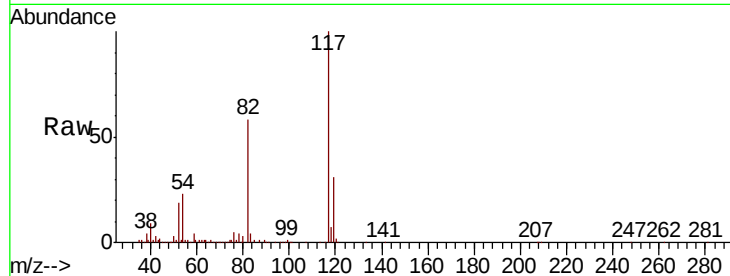




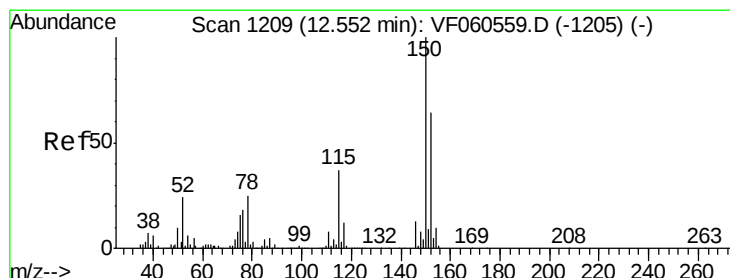
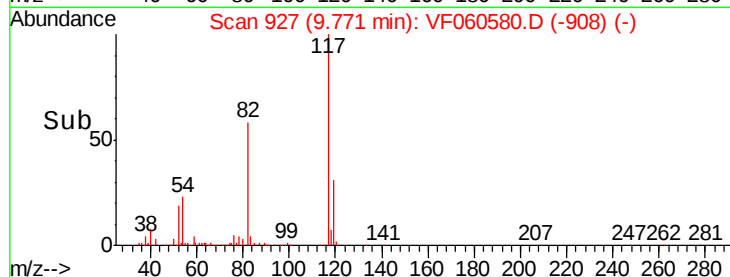
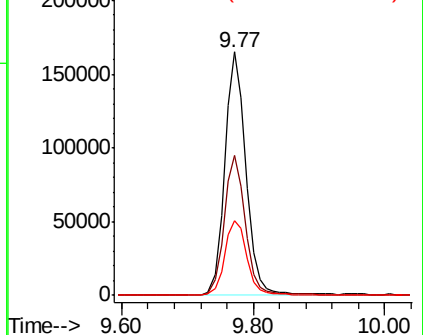
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF060580.D
Acq: 5 Nov 2018 19:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.7	43.9	65.9
119	30.7	27.4	41.0

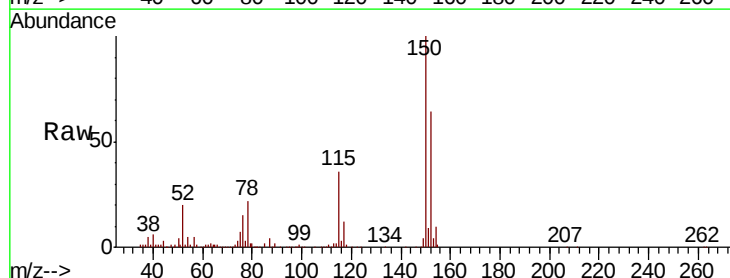


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

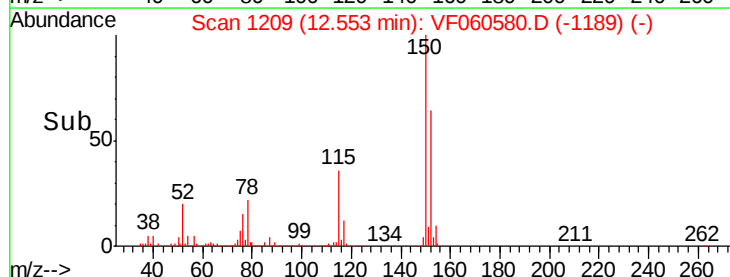
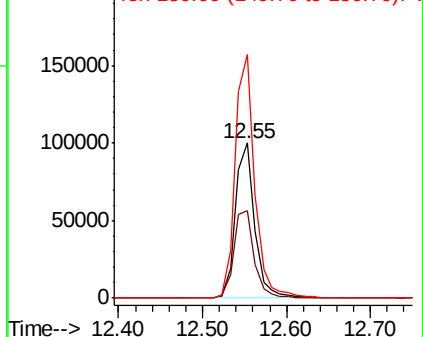


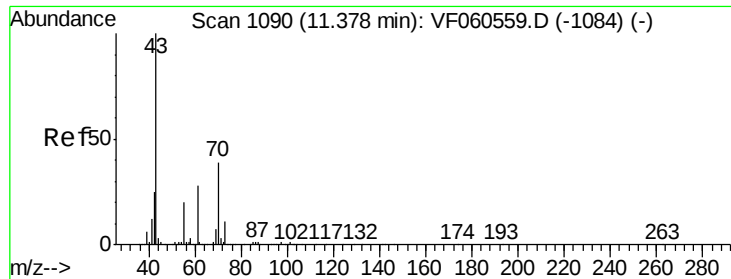
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060580.D
Acq: 5 Nov 2018 19:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	29.6	88.8
150	157.4	0.0	315.6



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





#74
N-amvl acetate
Concen: Below Cal
RT: 11.39 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VF060580.D
Acq: 5 Nov 2018 19:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1362
Ion Ratio Lower Upper
43 100
70 24.7 30.9 46.3#
55 24.3 16.6 24.8
61 66.7 22.0 33.0#

