

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110818\
 Data File : VF060659.D
 Acq On : 8 Nov 2018 19:42
 Operator : VA/AP
 Sample : J5859-04
 Misc : 6.13g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 09 12:34:42 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	4.86	168	259007	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	467142	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	431217	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	225522	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	125112	47.81	ug/l	-0.02
Spiked Amount			Recovery	=	95.62%	
35) Dibromofluoromethane	4.10	113	148457	41.13	ug/l	0.00
Spiked Amount			Recovery	=	82.26%	
50) Toluene-d8	7.55	98	355356	33.24	ug/l	0.00
Spiked Amount			Recovery	=	66.48%	
62) 4-Bromofluorobenzene	11.41	95	180031	38.50	ug/l	0.00
Spiked Amount			Recovery	=	77.00%	

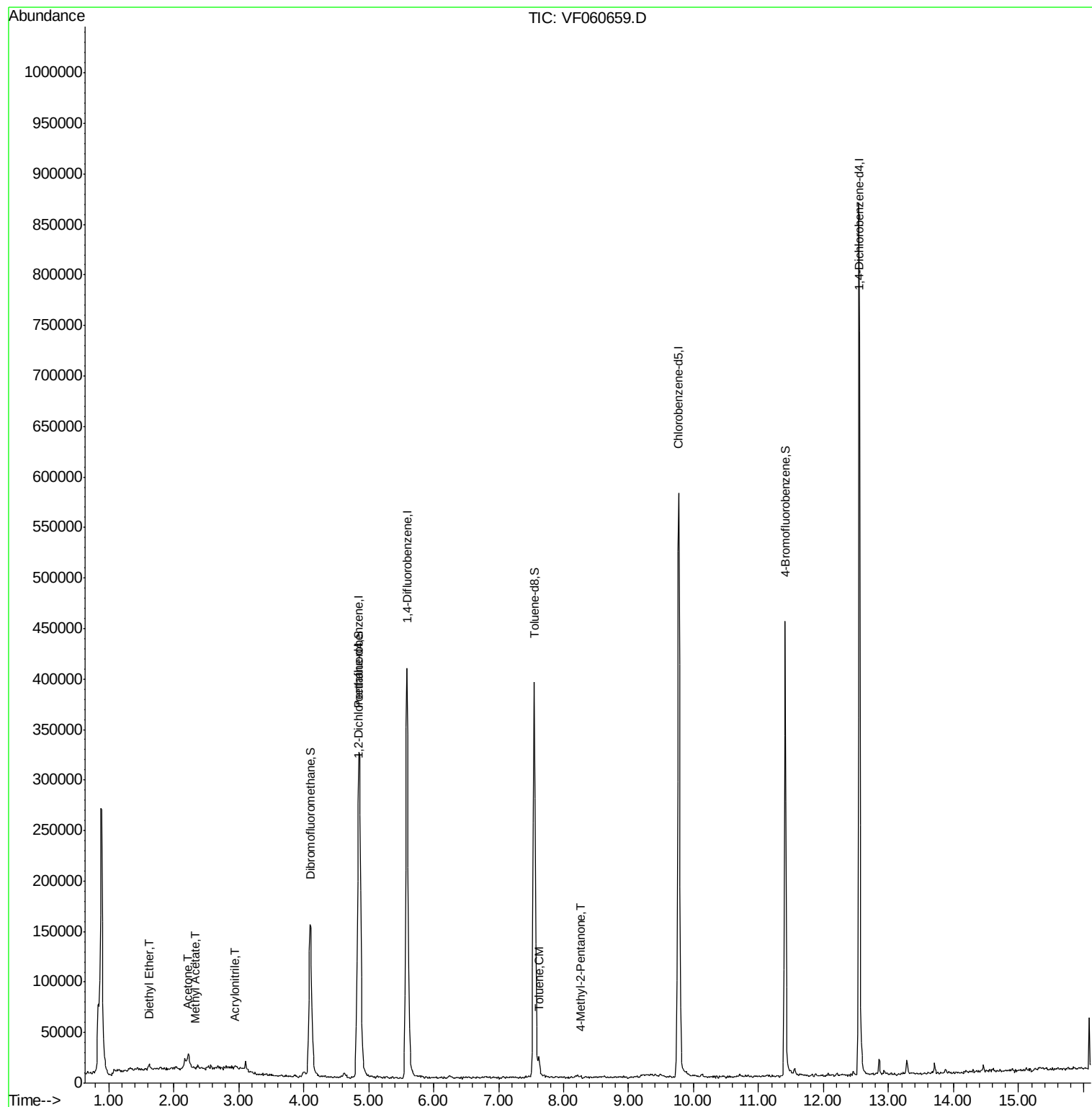
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	440	Below Cal	#	41
6) Chloroethane	1.37	64	60	Below Cal	#	1
8) Diethyl Ether	1.62	74	1766	2.437	ug/l	46
11) Tert butyl alcohol	2.58	59	518	Below Cal	#	14
13) Acrolein	1.98	56	144	Below Cal	#	30
15) Acrylonitrile	2.95	53	1243	3.985	ug/l #	61
16) Acetone	2.23	43	13065	21.187	ug/l #	82
18) Methyl Acetate	2.33	43	858	1.366	ug/l #	83
20) Methylene Chloride	2.18	84	4986	Below Cal	#	89
25) 2-Butanone	4.31	43	337	Below Cal	#	56
29) Tetrahydrofuran	4.11	42	1071	Below Cal	#	36
51) 4-Methyl-2-Pentanone	8.26	43	2909	1.385	ug/l #	83
52) Toluene	7.62	92	8944	1.100	ug/l #	76
58) 2-Chloroethyl Vinyl ether	7.62	63	1576	Below Cal		100
59) 2-Hexanone	9.50	43	2333	Below Cal		64
74) N-amyl acetate	11.36	43	484	Below Cal	#	58
89) n-Butylbenzene	12.84	91	1235	Below Cal		89

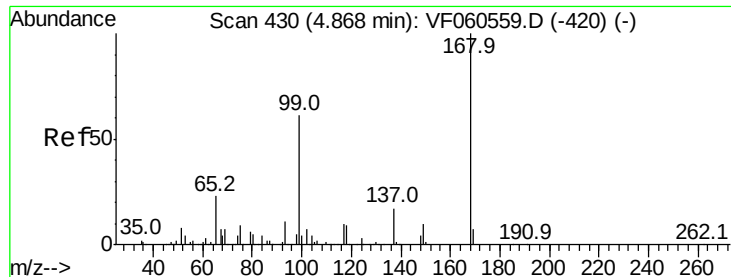
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

Instrument :

MSVOA_F

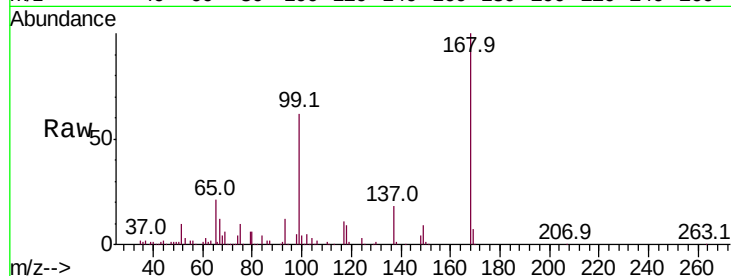
ClientSampleId :

Tot Ion:168 Resp: 259007

Ion Ratio Lower Upper

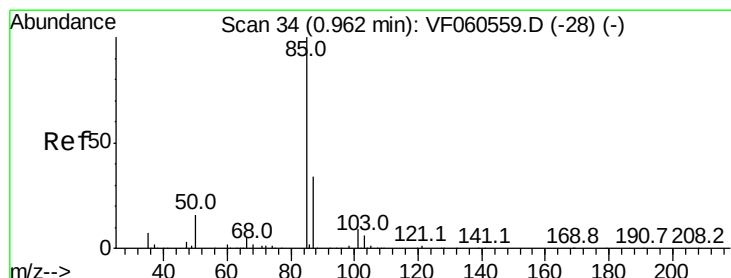
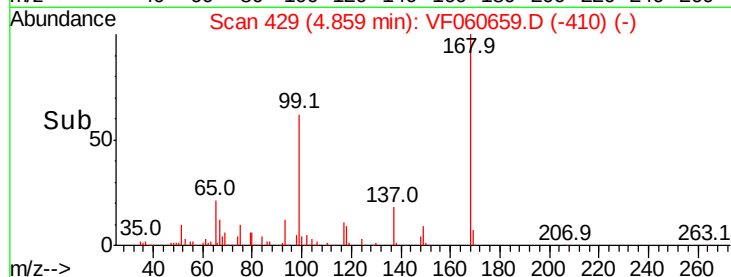
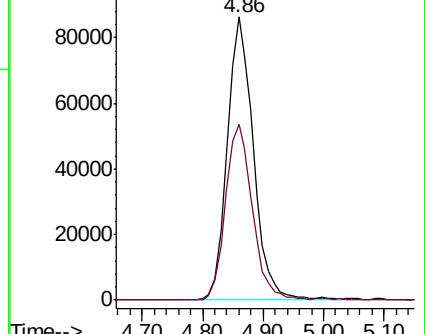
168 100

99 62.0 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: VF060659.D

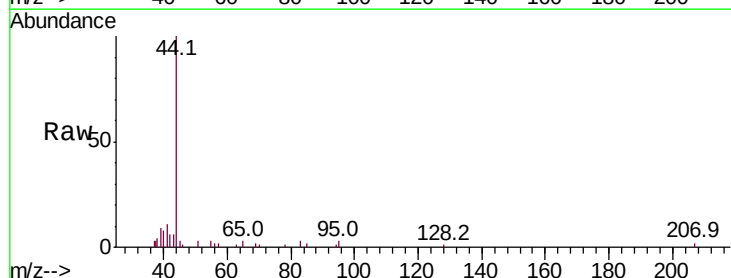
Acq: 8 Nov 2018 19:42

Tgt Ion: 85 Resp: 440

Ion Ratio Lower Upper

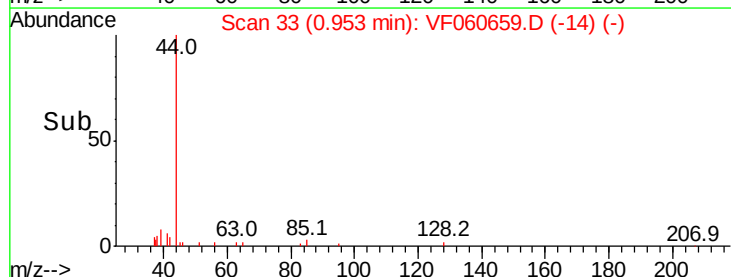
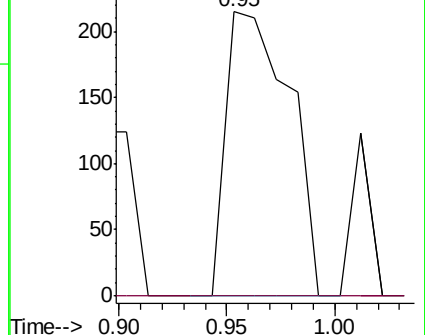
85 100

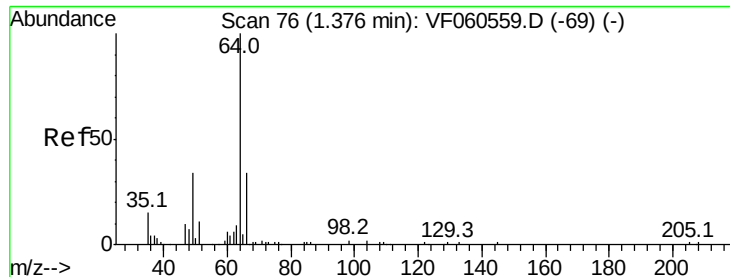
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

Instrument :

MSVOA_F

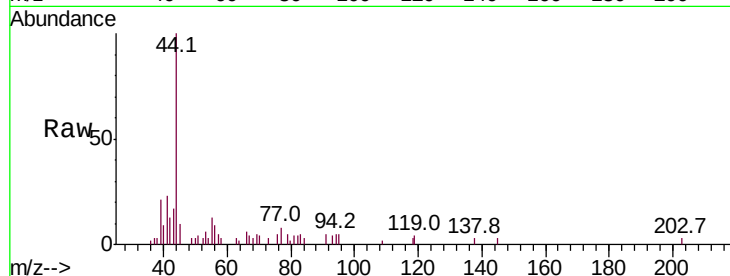
ClientSampleId :

Tot Ion: 64 Resp: 60

Ion Ratio Lower Upper

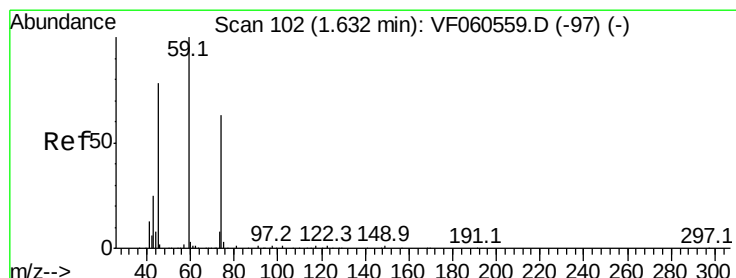
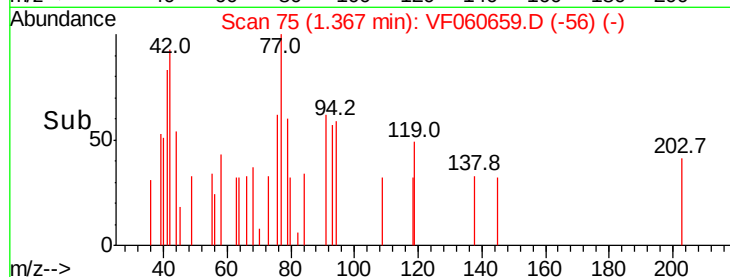
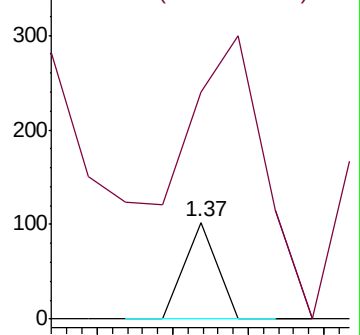
64 100

66 235.3 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 2.437 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060659.D

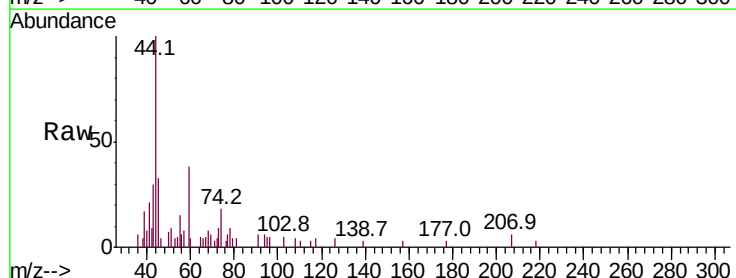
Acq: 8 Nov 2018 19:42

Tgt Ion: 74 Resp: 1766

Ion Ratio Lower Upper

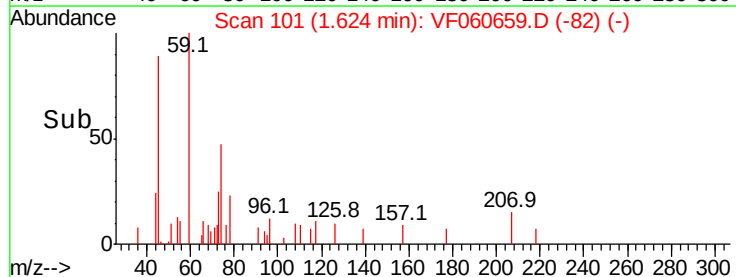
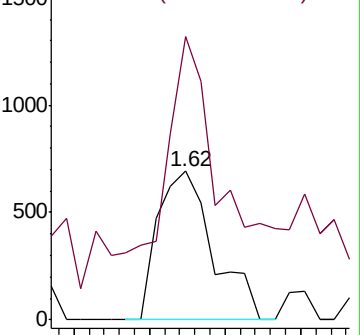
74 100

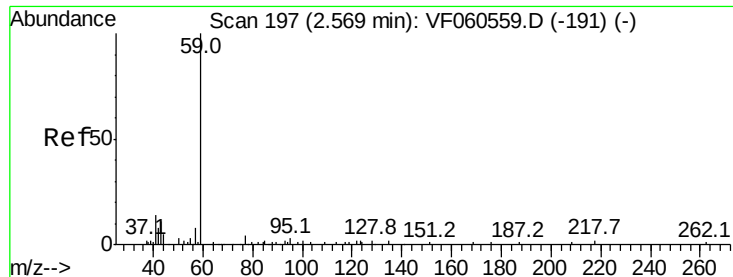
45 190.2 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

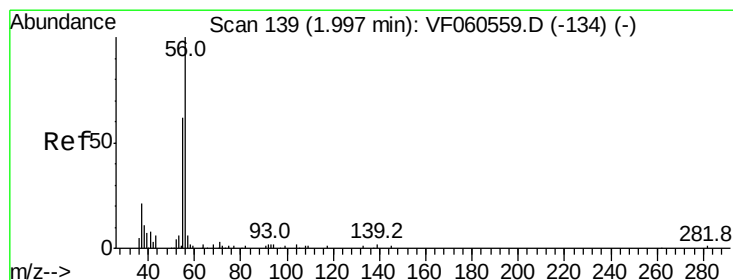
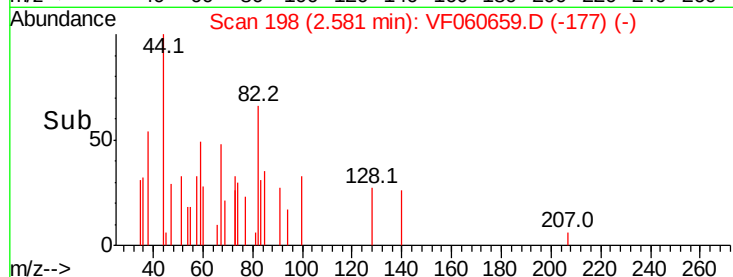
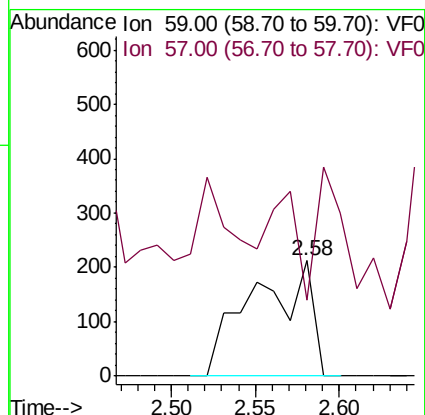
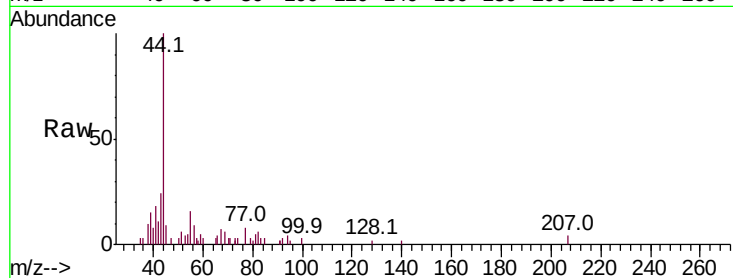




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.58 min Scan# 198
Delta R.T. 0.01 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

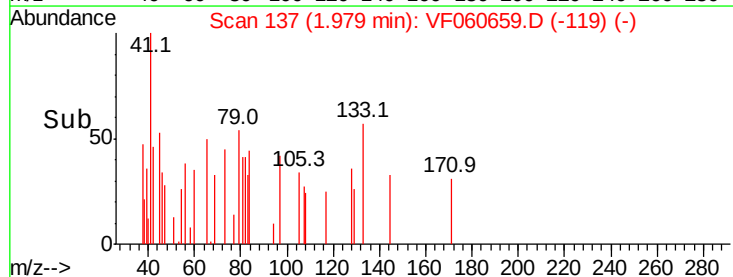
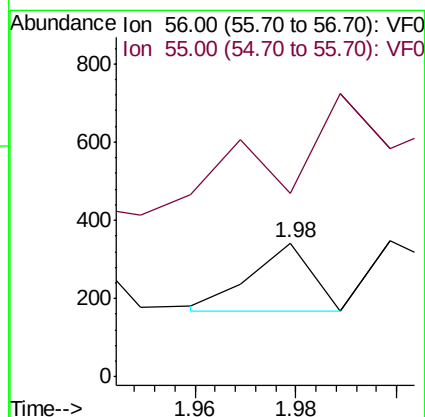
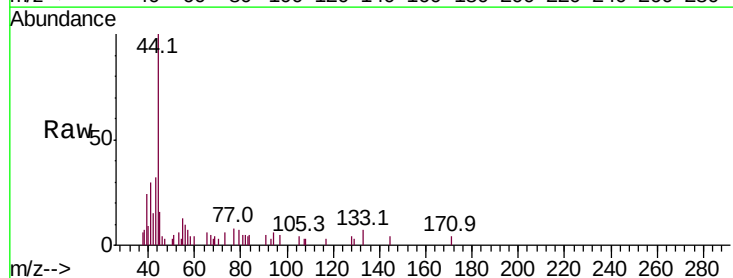
Instrument :
MSVOA_F
ClientSampled :

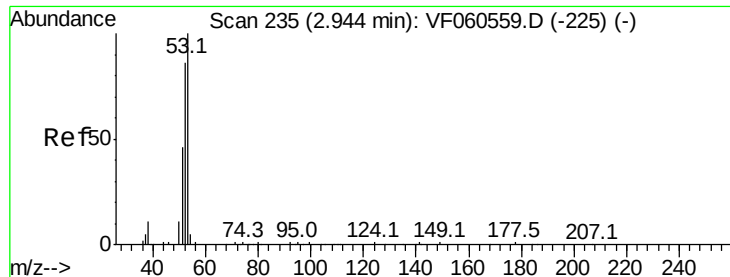
Tot Ion: 59 Resp: 518
Ion Ratio Lower Upper
59 100
57 66.0 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 1.98 min Scan# 137
Delta R.T. -0.02 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

Tgt Ion: 56 Resp: 144
Ion Ratio Lower Upper
56 100
55 137.4 61.8 92.6#





#15

Acrylonitrile

Concen: 3.985 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

Instrument :
MSVOA_F
ClientSampled :

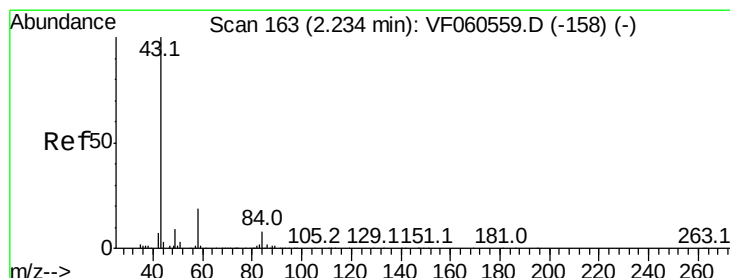
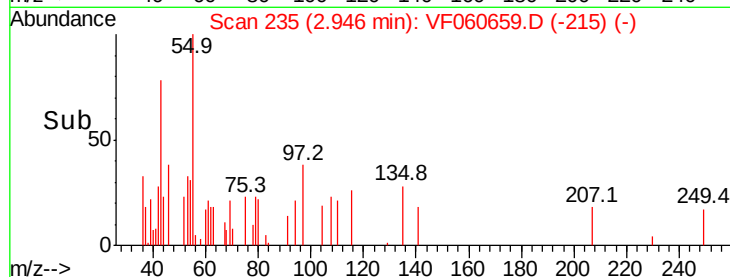
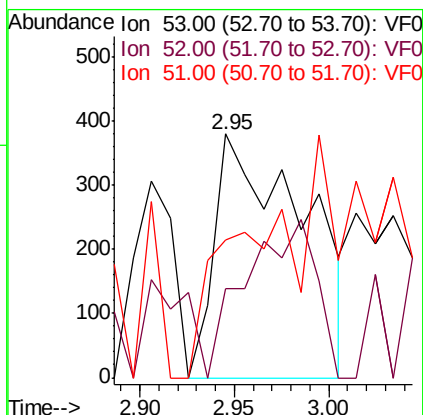
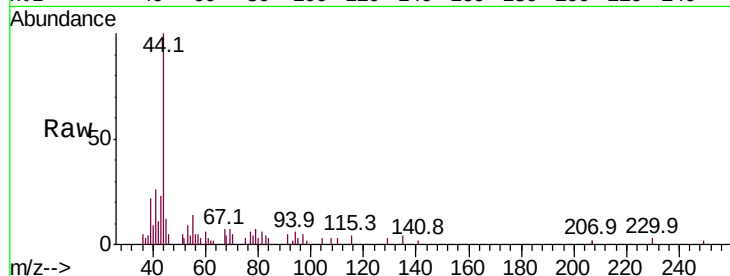
Tot Ion: 53 Resp: 1243

Ion Ratio Lower Upper

53 100

52 36.7 68.5 102.7#

51 56.7 38.2 57.2



#16

Acetone

Concen: 21.187 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF060659.D

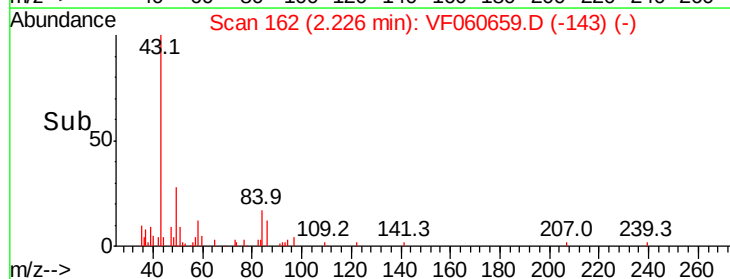
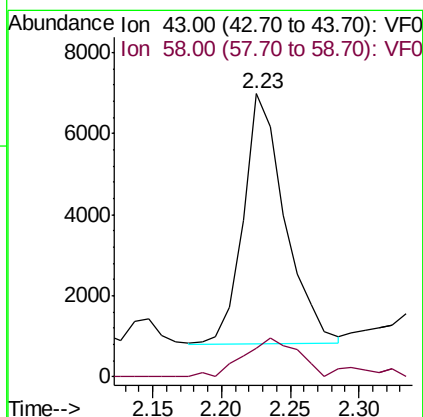
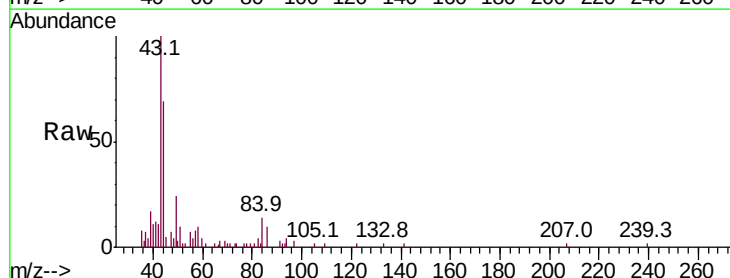
Acq: 8 Nov 2018 19:42

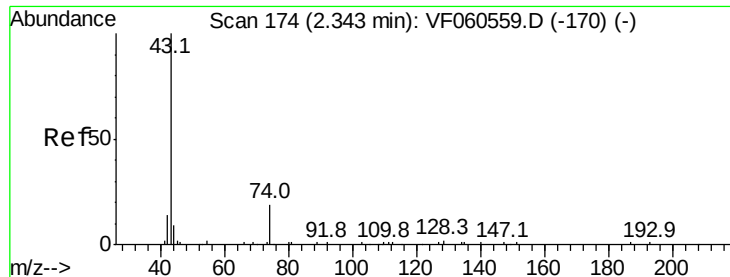
Tgt Ion: 43 Resp: 13065

Ion Ratio Lower Upper

43 100

58 10.1 14.6 22.0#

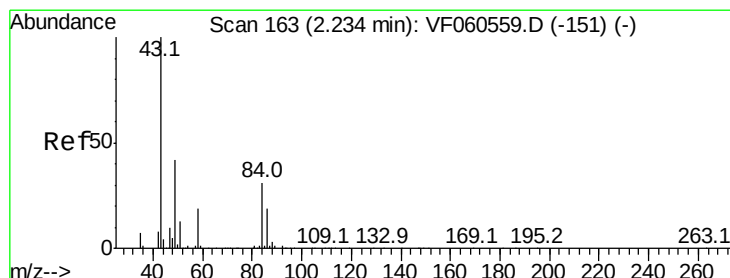
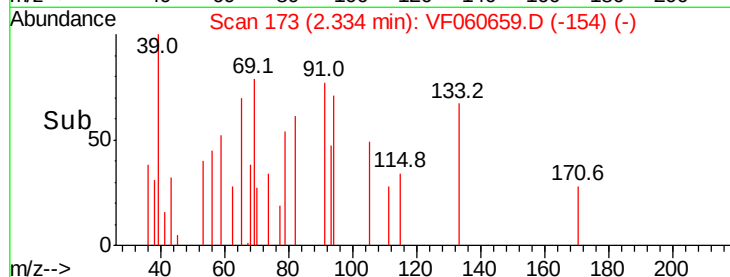
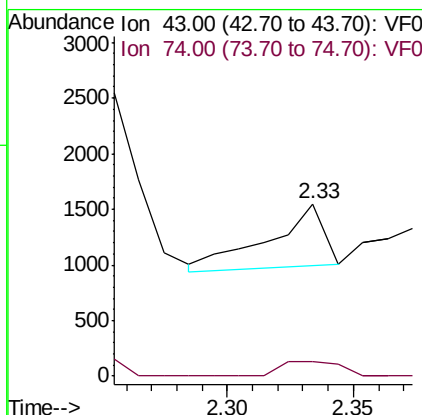
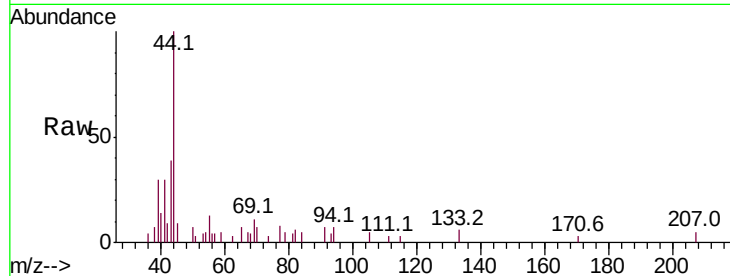




#18
Methyl Acetate
Concen: 1.366 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

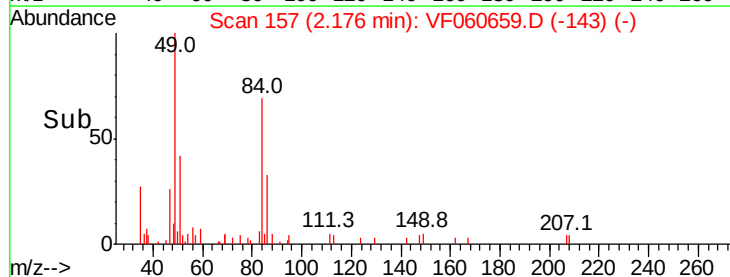
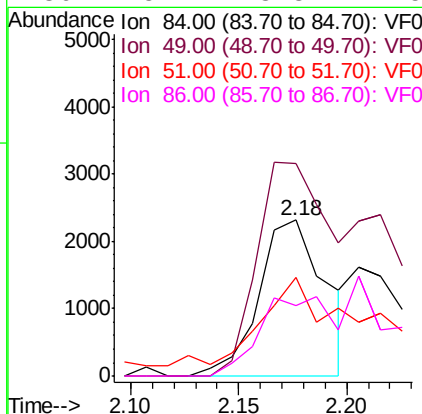
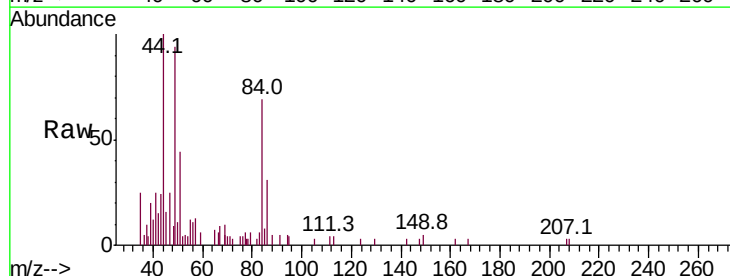
Instrument :
MSVOA_F
ClientSampled :

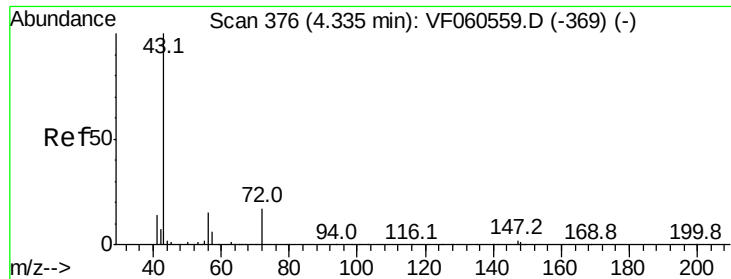
Tot Ion: 43 Resp: 858
Ion Ratio Lower Upper
43 100
74 8.1 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

Tgt Ion: 84 Resp: 4986
Ion Ratio Lower Upper
84 100
49 136.9 109.9 164.9
51 63.5 35.8 53.8#
86 45.2 48.3 72.5#





#25

2-Butanone

Concen: Below Cal

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

Instrument :

MSVOA_F

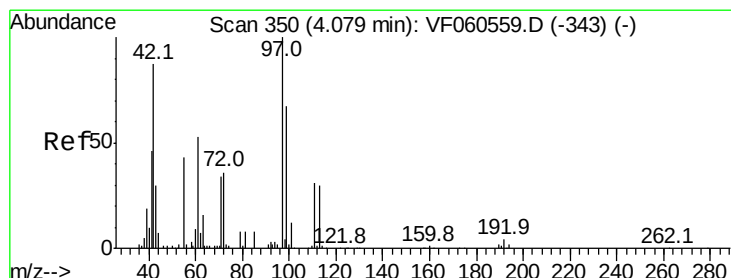
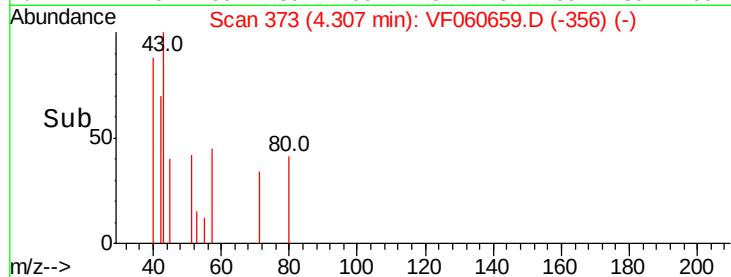
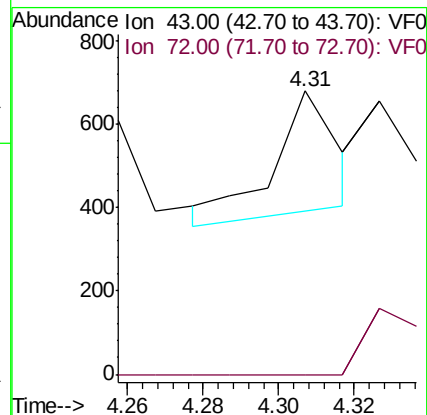
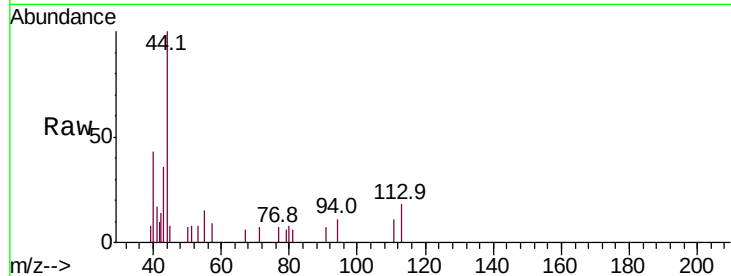
ClientSampleId :

Tot Ion: 43 Resp: 337

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.11 min Scan# 353

Delta R.T. 0.03 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

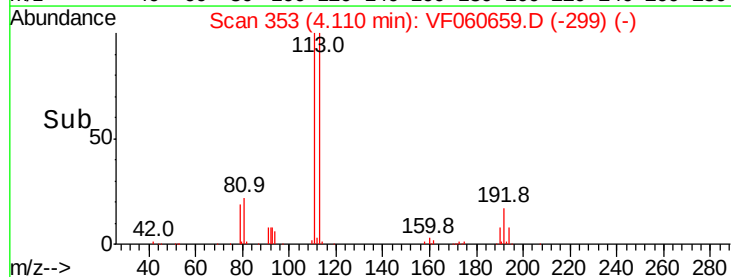
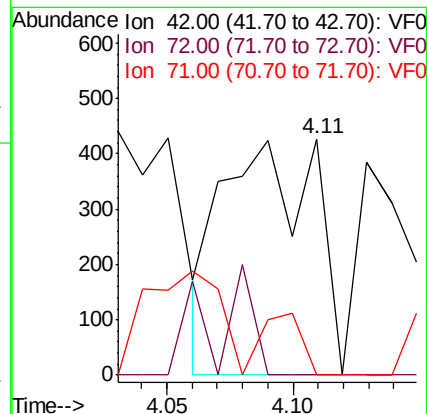
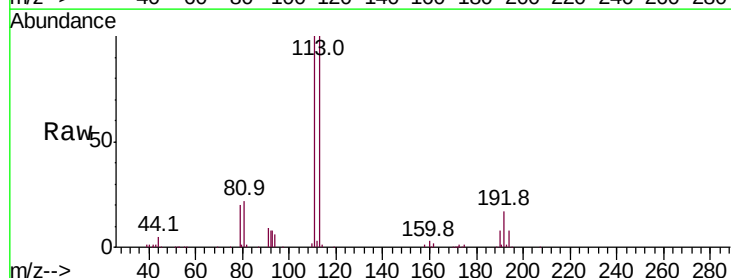
Tgt Ion: 42 Resp: 1071

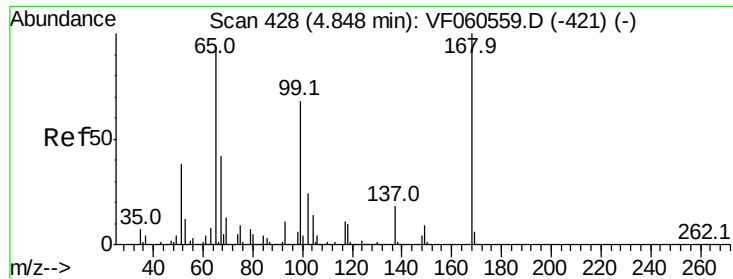
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.8 47.6#

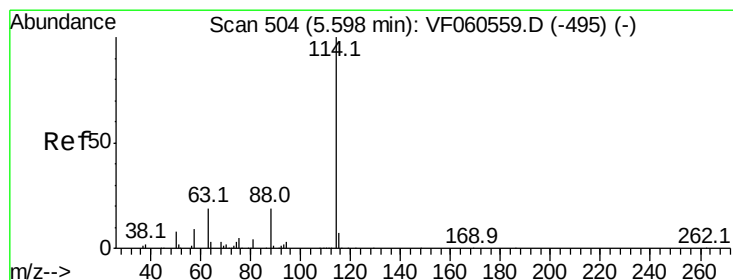
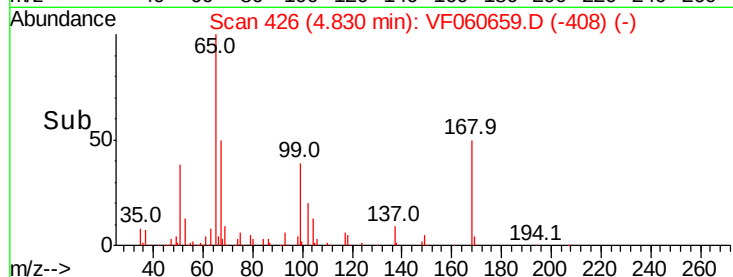
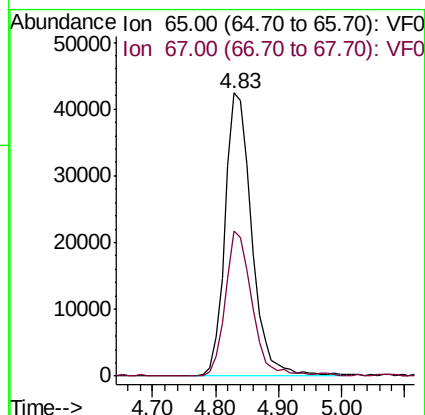
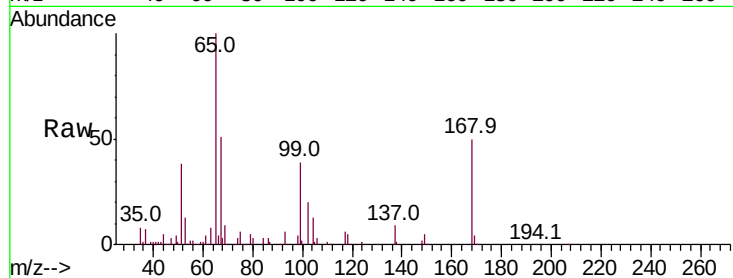




#33
 1,2-Dichloroethane-d4
 Concen: 47.809 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.02 min
 Lab File: VF060659.D
 Acq: 8 Nov 2018 19:42

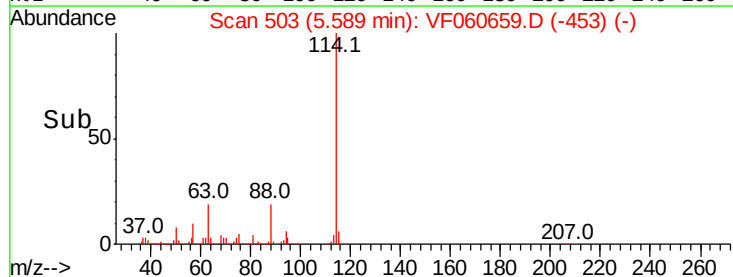
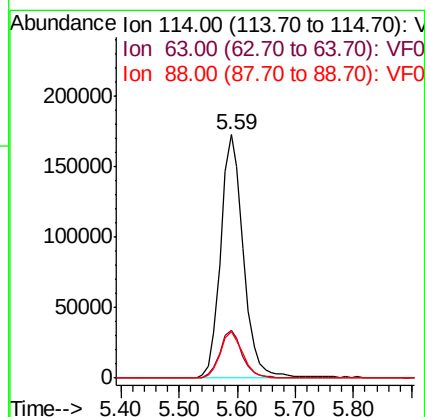
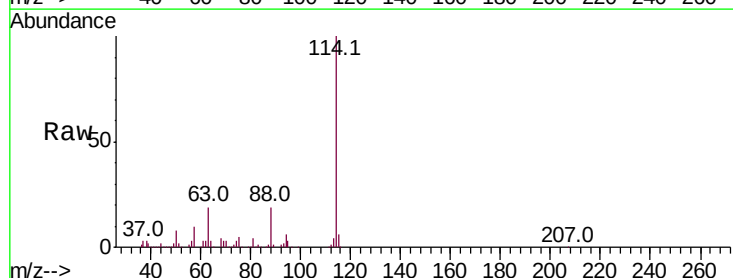
Instrument :
 MSVOA_F
 ClientSampleId :

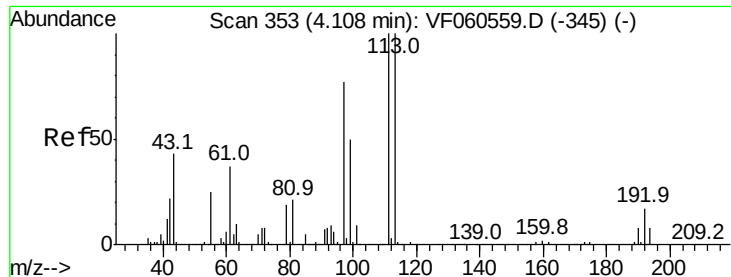
Tot Ion: 65 Resp: 125112
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF060659.D
 Acq: 8 Nov 2018 19:42

Tgt Ion: 114 Resp: 467142
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.0
 88 18.9 0.0 38.2





#35

Dibromofluoromethane

Concen: 41.134 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

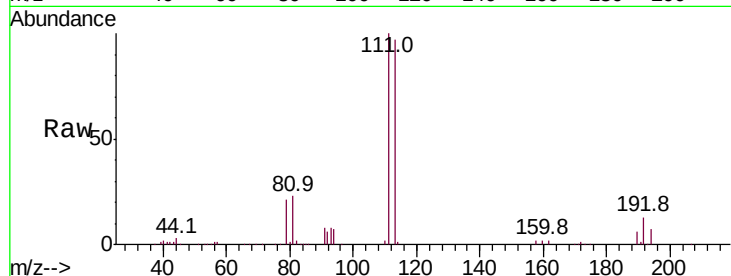
Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 148457

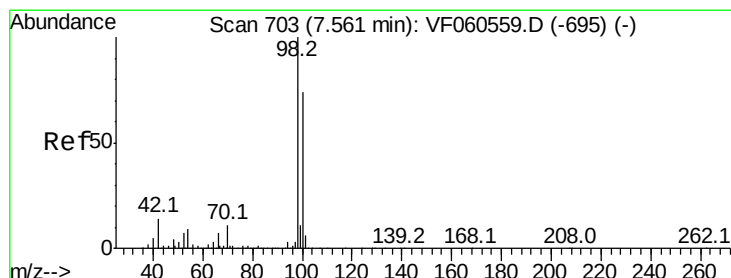
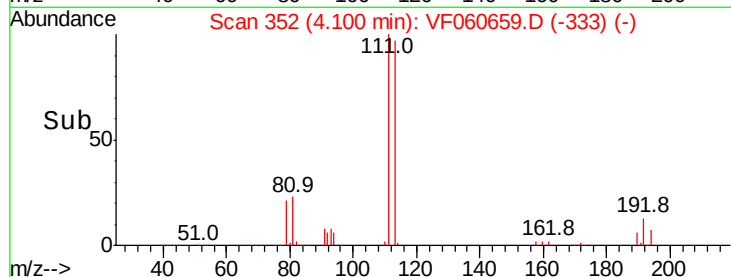
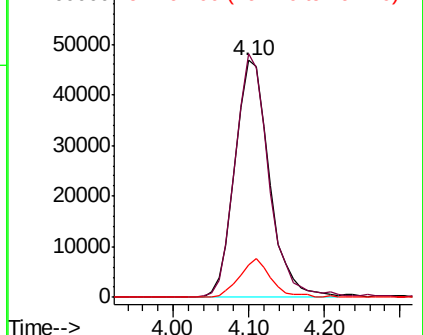
Ion	Ratio	Lower	Upper
113	100		
111	102.8	79.9	119.9
192	13.7	13.3	19.9



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



#50

Toluene-d8

Concen: 33.238 ug/l

RT: 7.55 min Scan# 702

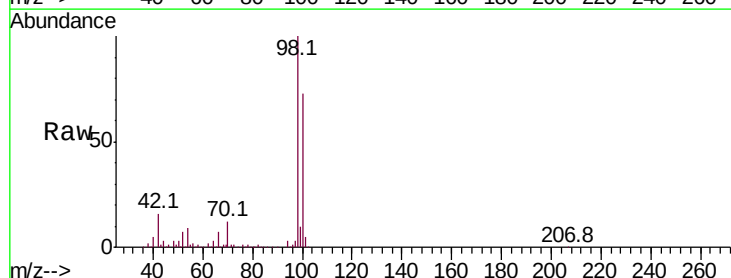
Delta R.T. -0.01 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

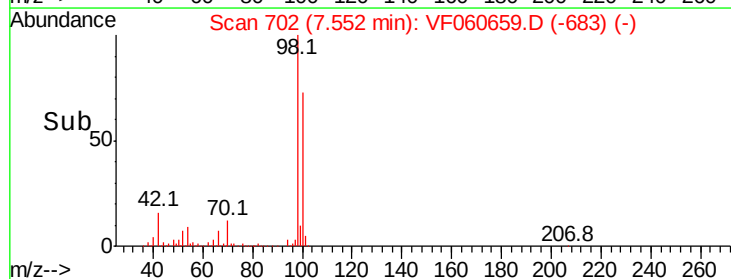
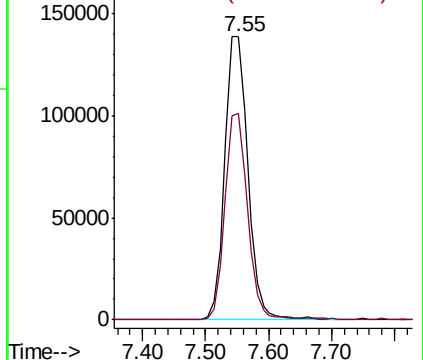
Tgt Ion: 98 Resp: 355356

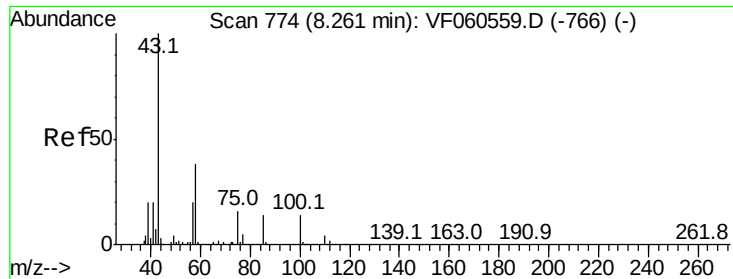
Ion	Ratio	Lower	Upper
98	100		
100	73.2	59.4	89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 1.385 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

Instrument :

MSVOA_F

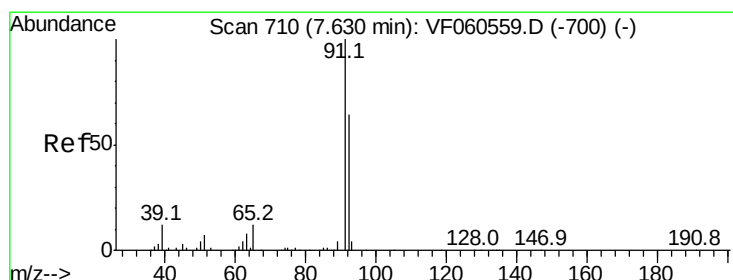
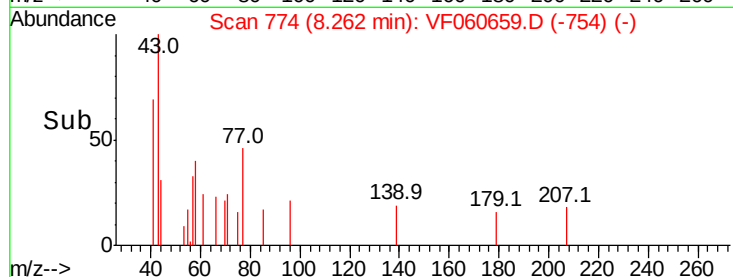
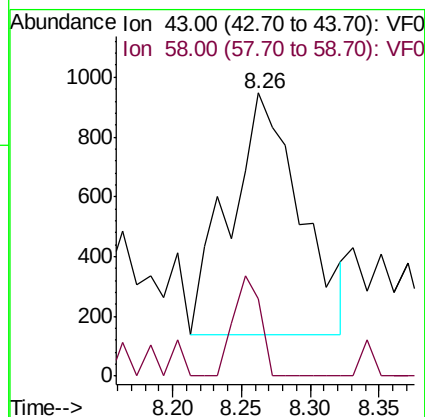
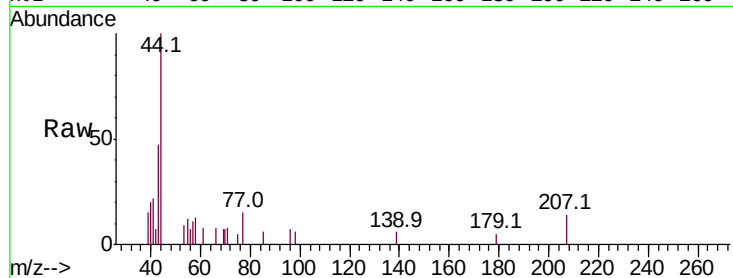
ClientSampleId :

Tot Ion: 43 Resp: 2909

Ion Ratio Lower Upper

43 100

58 27.5 30.1 45.1#



#52

Toluene

Concen: 1.100 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF060659.D

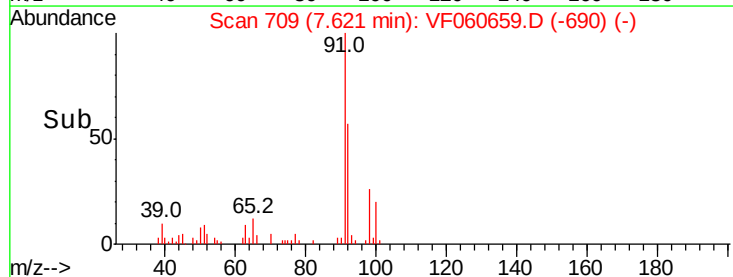
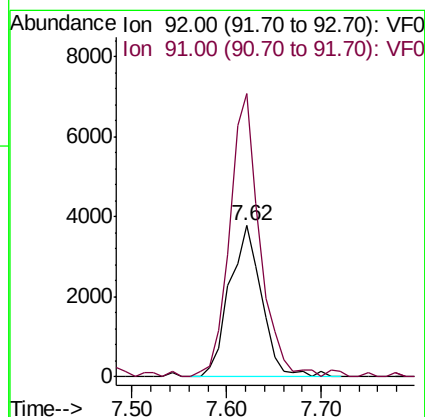
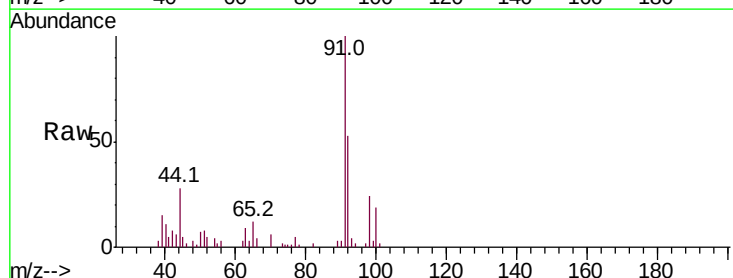
Acq: 8 Nov 2018 19:42

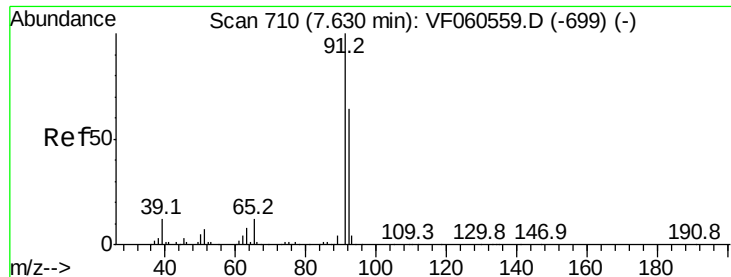
Tgt Ion: 92 Resp: 8944

Ion Ratio Lower Upper

92 100

91 186.9 124.5 186.7#





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF060659.D

Acq: 8 Nov 2018 19:42

Instrument :

MSVOA_F

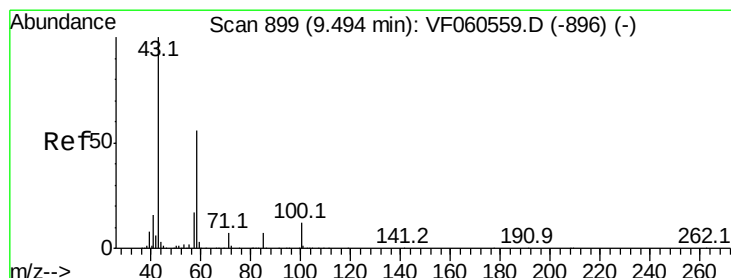
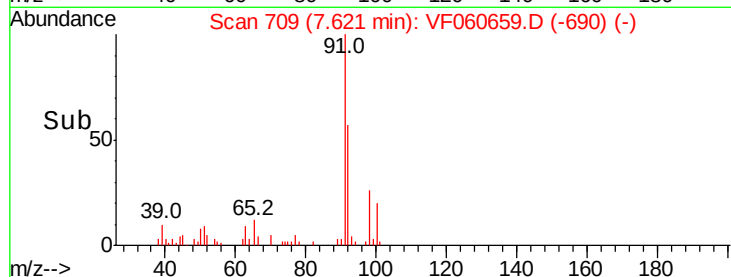
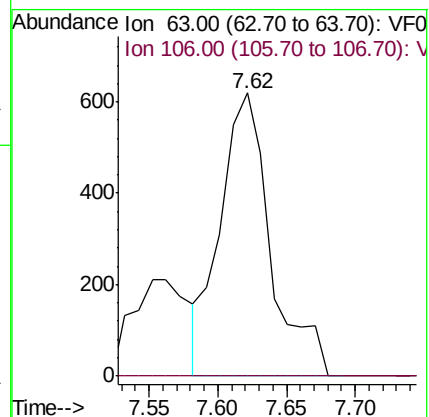
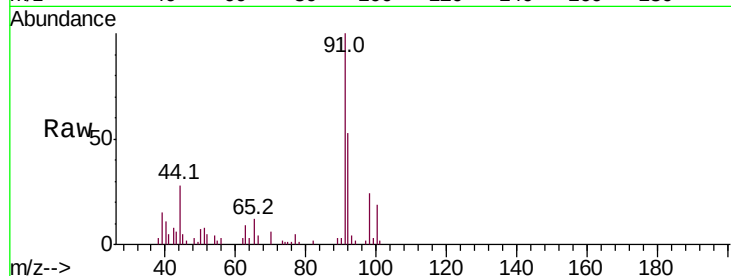
ClientSampleId :

Tot Ion: 63 Resp: 1576

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



#59

2-Hexanone

Concen: Below Cal

RT: 9.50 min Scan# 899

Delta R.T. 0.00 min

Lab File: VF060659.D

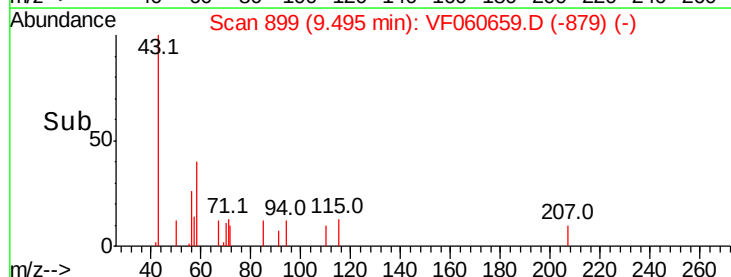
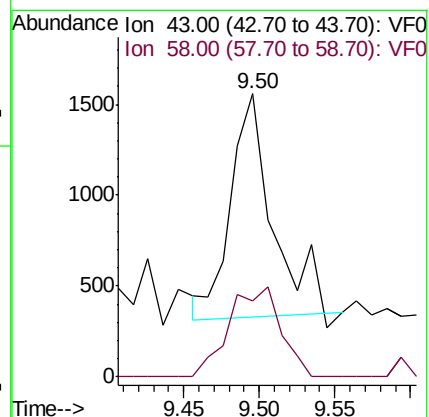
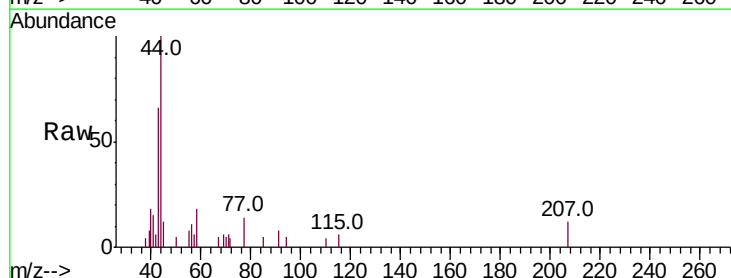
Acq: 8 Nov 2018 19:42

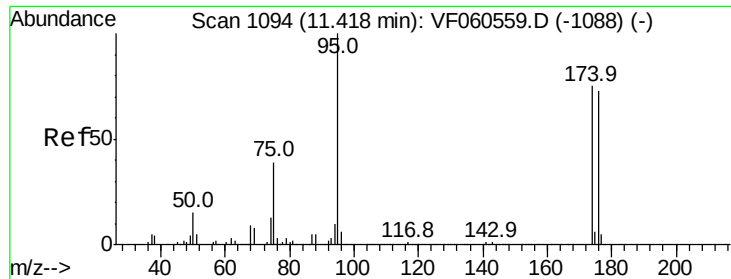
Tgt Ion: 43 Resp: 2333

Ion Ratio Lower Upper

43 100

58 27.0 26.1 78.3

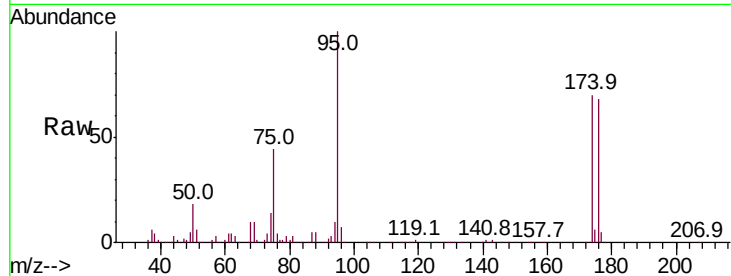




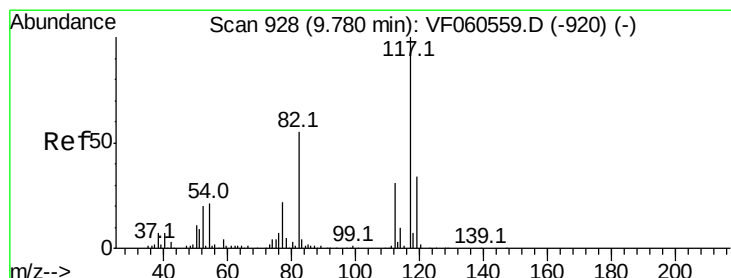
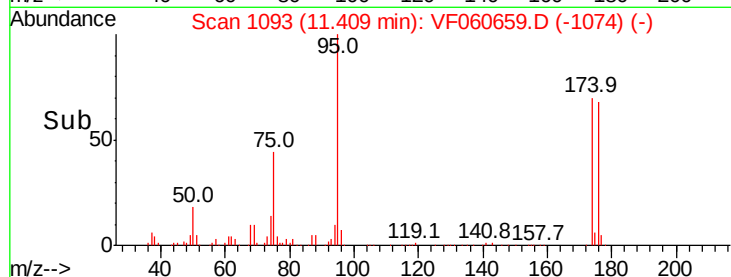
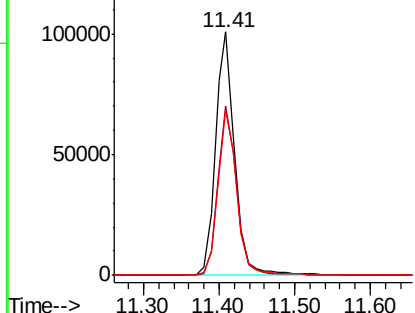
#62
4-Bromofluorobenzene
Concen: 38.497 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 95 Resp: 180031
Ion Ratio Lower Upper
95 100
174 69.6 0.0 149.0
176 68.2 0.0 145.6

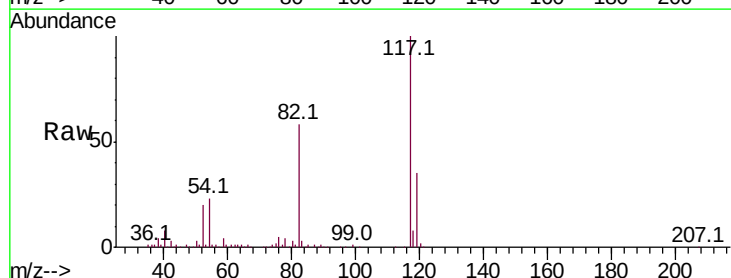


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

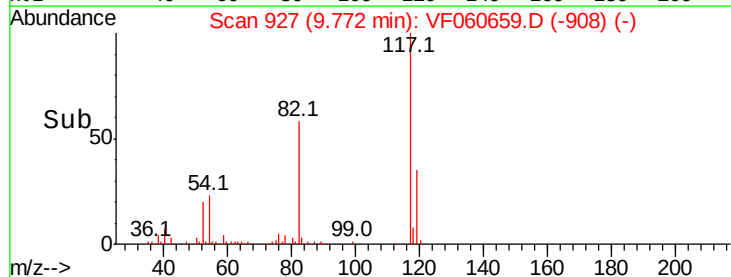
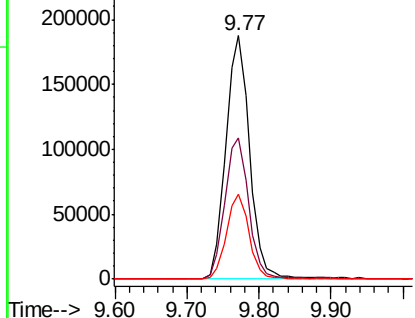


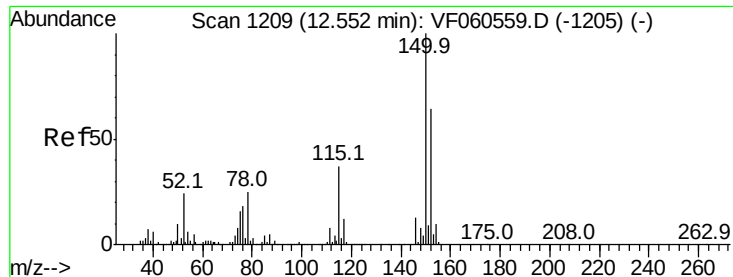
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

Tgt Ion: 117 Resp: 431217
Ion Ratio Lower Upper
117 100
82 58.1 43.9 65.9
119 35.1 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



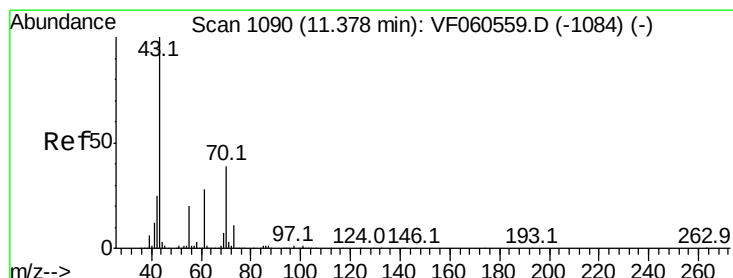
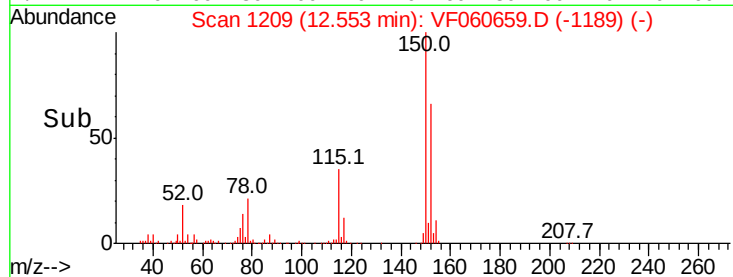
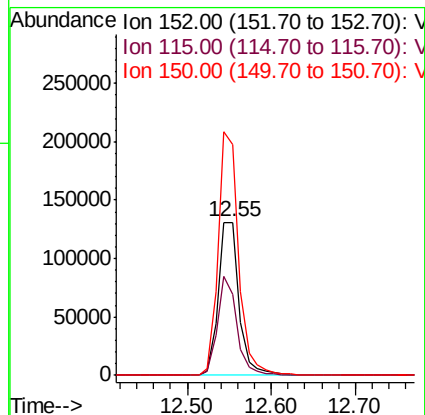
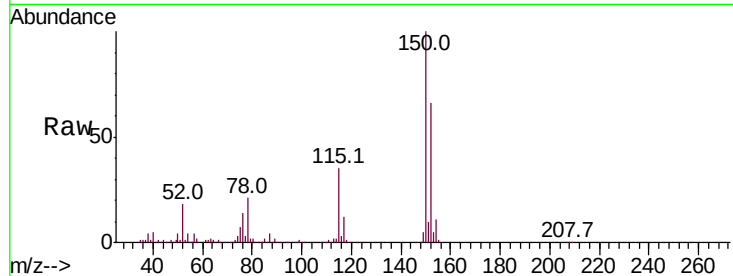


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 225522
Ion Ratio Lower Upper
152 100
115 53.1 29.6 88.8
150 150.6 0.0 315.6



#74

N-amyl acetate
Concen: Below Cal
RT: 11.36 min Scan# 1088
Delta R.T. -0.02 min
Lab File: VF060659.D
Acq: 8 Nov 2018 19:42

Tgt Ion: 43 Resp: 484
Ion Ratio Lower Upper
43 100
70 24.1 30.9 46.3#
55 49.7 16.6 24.8#
61 0.0 22.0 33.0#

