

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110618\
 Data File : VF060616.D
 Acq On : 6 Nov 2018 16:57
 Operator : VA/AP
 Sample : J5767-01RE
 Misc : 5.61µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 16:51:00 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	306021	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.61	114	595101	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.80	117	485367	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	296830	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	150715	48.74	ug/l	0.02
Spiked Amount			Recovery	=	97.48%	
35) Dibromofluoromethane	4.13	113	195422	42.50	ug/l	0.03
Spiked Amount			Recovery	=	85.00%	
50) Toluene-d8	7.58	98	453778	33.32	ug/l	0.02
Spiked Amount			Recovery	=	66.64%	
62) 4-Bromofluorobenzene	11.42	95	245930	41.28	ug/l	0.00
Spiked Amount			Recovery	=	82.56%	

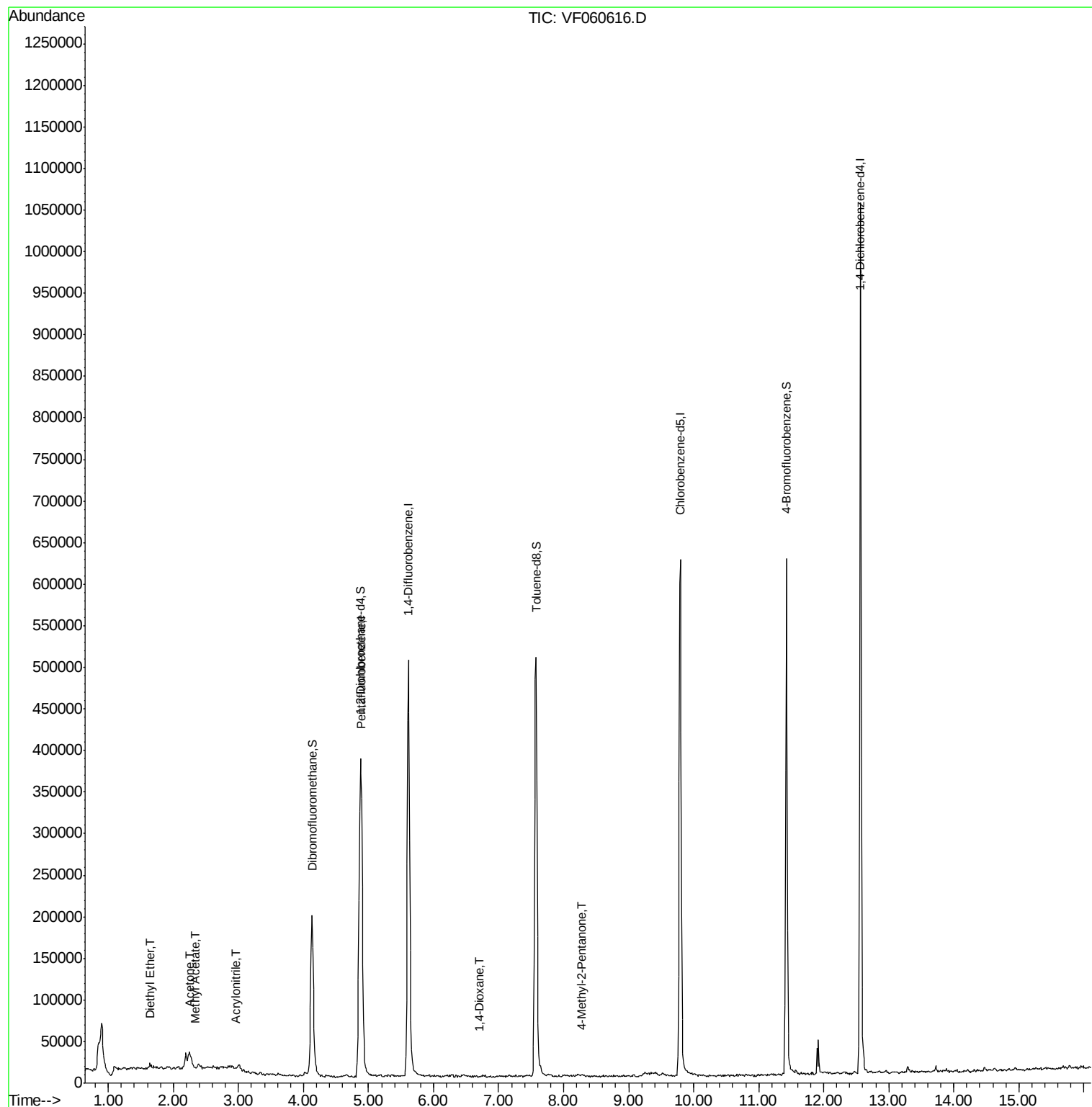
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	334	Below Cal	#	41
6) Chloroethane	1.36	64	84	Below Cal	#	40
8) Diethyl Ether	1.64	74	2567	2.998	ug/l	76
11) Tert butyl alcohol	2.59	59	495	Below Cal	#	1
13) Acrolein	1.90	56	521	Below Cal		88
15) Acrylonitrile	2.97	53	632	1.715	ug/l #	24
16) Acetone	2.25	43	7437	10.207	ug/l #	81
18) Methyl Acetate	2.33	43	763	1.147	ug/l	94
20) Methylene Chloride	2.25	84	9692	Below Cal		86
25) 2-Butanone	4.37	43	1373	Below Cal	#	56
29) Tetrahydrofuran	4.10	42	2043	Below Cal	#	87
49) 1,4-Dioxane	6.70	88	81	3.097	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	4502	1.683	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.64	63	553	Below Cal		100
59) 2-Hexanone	9.53	43	3372	Below Cal	#	56
74) N-amyl acetate	11.38	43	734	Below Cal	#	71
89) n-Butylbenzene	12.86	91	1319	Below Cal		77

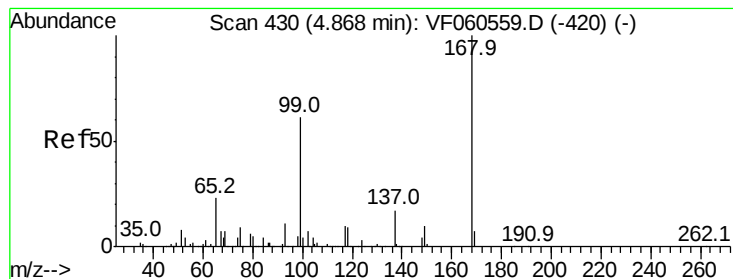
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.03 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

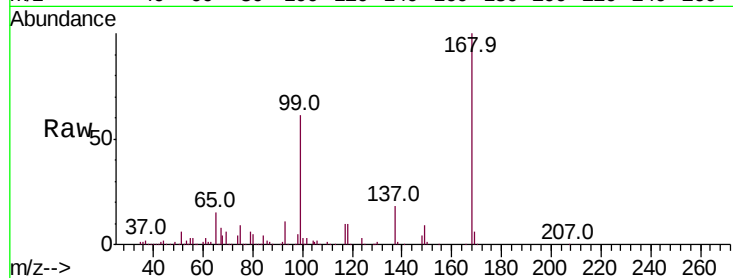
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 306021

Ion Ratio Lower Upper

168 100

99 60.8 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.89

100000

80000

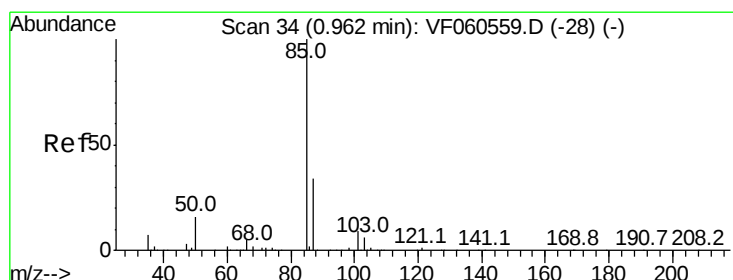
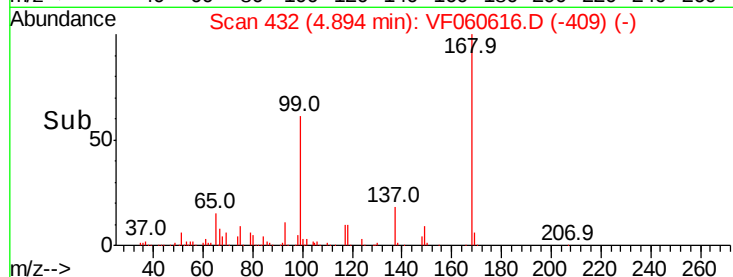
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF060616.D

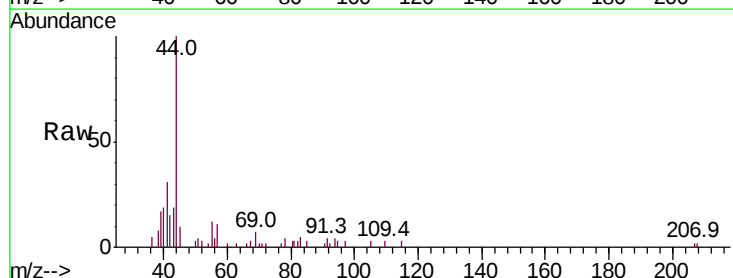
Acq: 6 Nov 2018 16:57

Tgt Ion: 85 Resp: 334

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

250

200

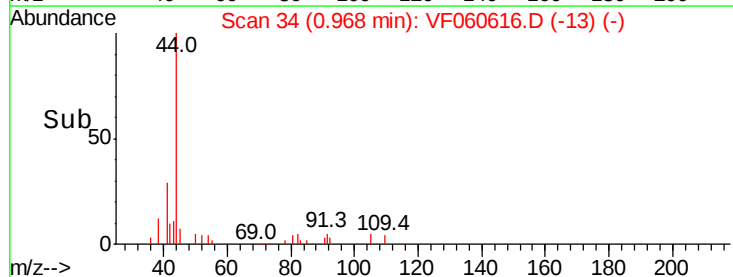
150

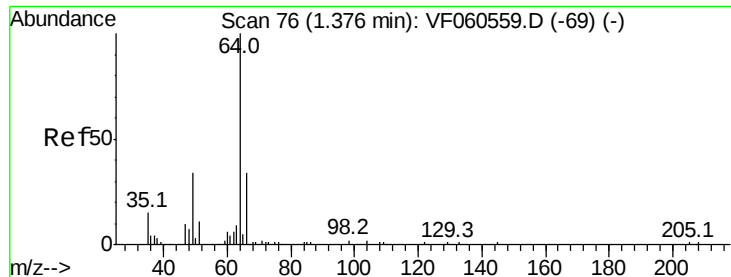
100

50

0

Time--> 0.92 0.94 0.96 0.98 1.00





#6

Chloroethane

Concen: Below Cal

RT: 1.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

Instrument :

MSVOA_F

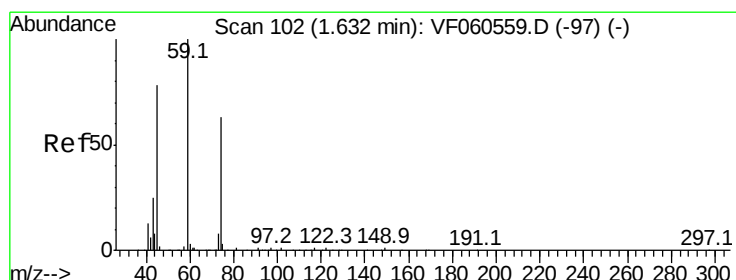
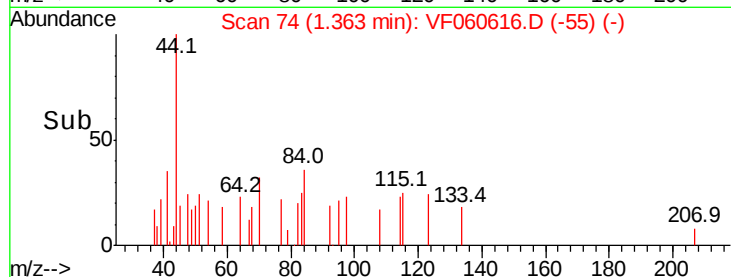
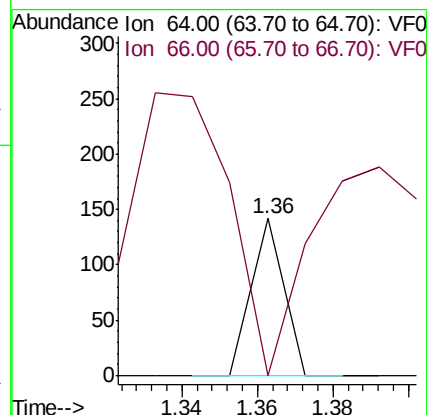
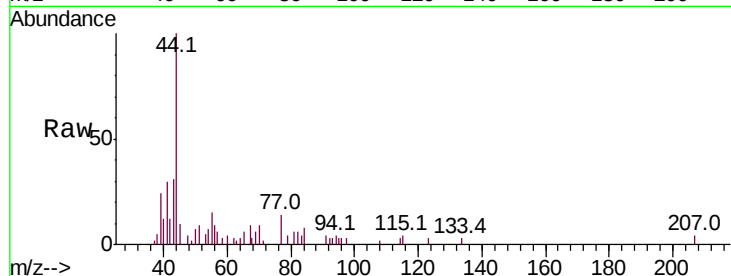
ClientSampled :

Tot Ion: 64 Resp: 84

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



#8

Diethyl Ether

Concen: 2.998 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF060616.D

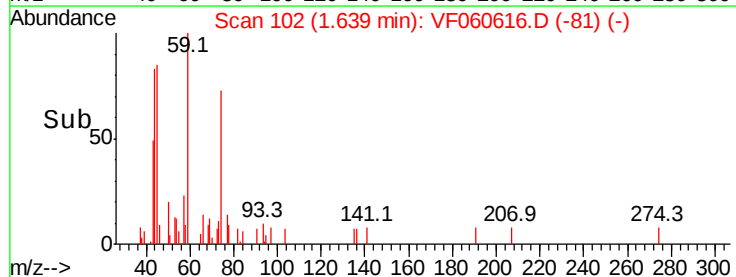
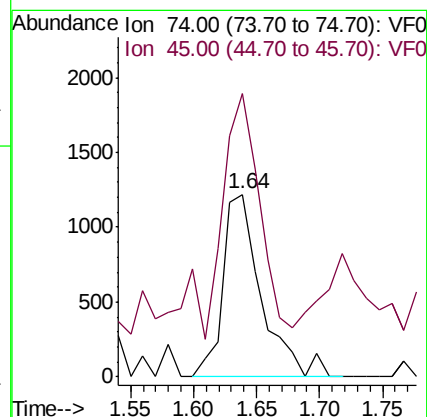
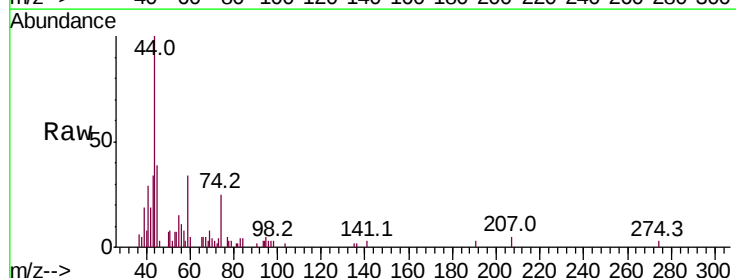
Acq: 6 Nov 2018 16:57

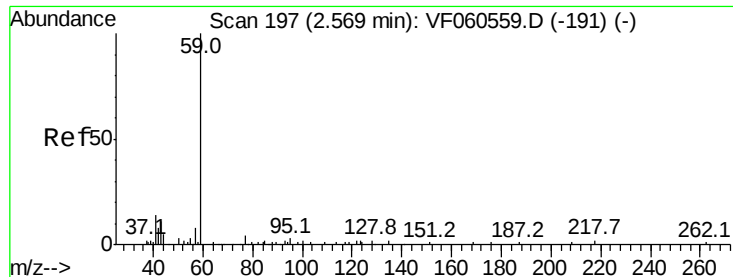
Tgt Ion: 74 Resp: 2567

Ion Ratio Lower Upper

74 100

45 154.8 63.8 191.5



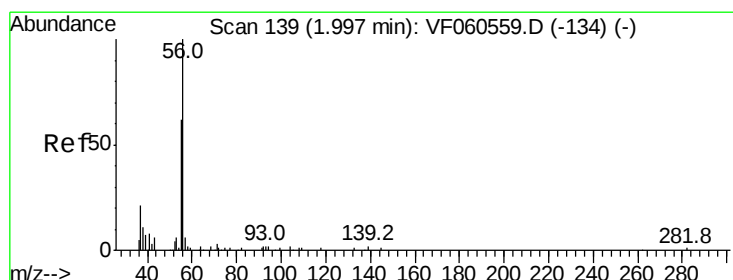
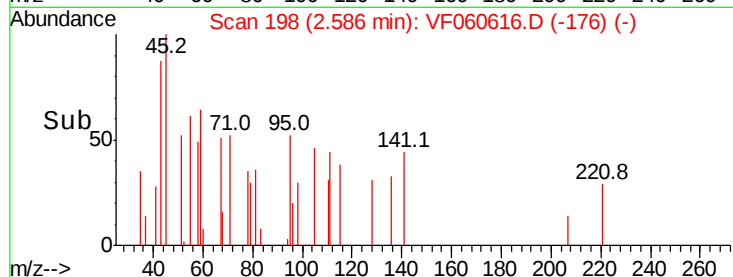
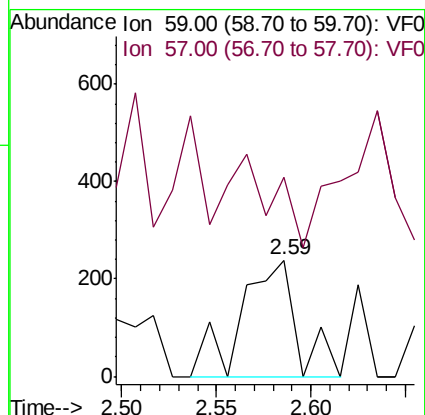
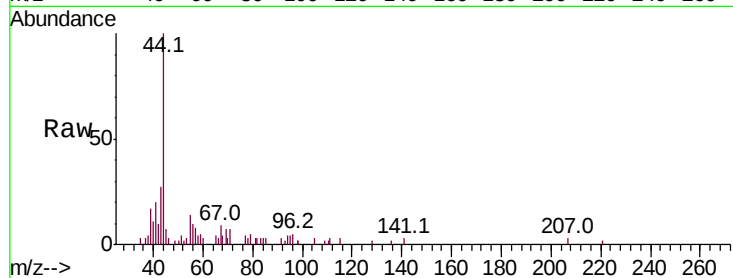


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.59 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF060616.D
Acq: 6 Nov 2018 16:57

Instrument :
MSVOA_F
ClientSampleId :

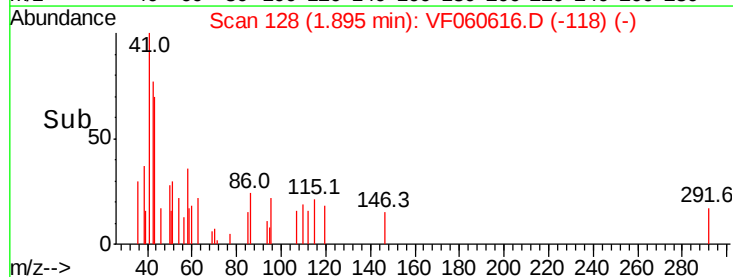
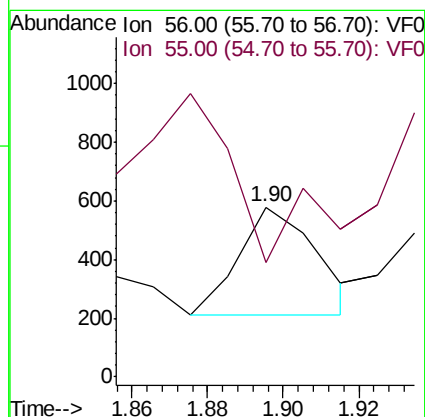
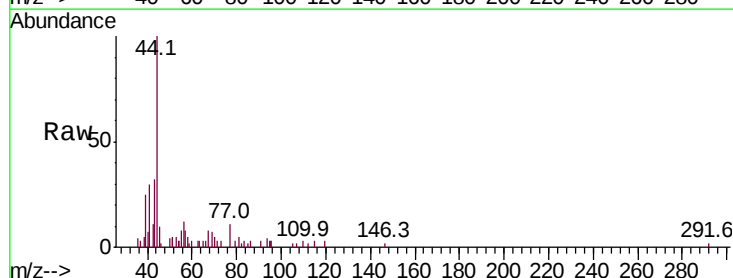
Tot Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 171.5 19.0 28.4#

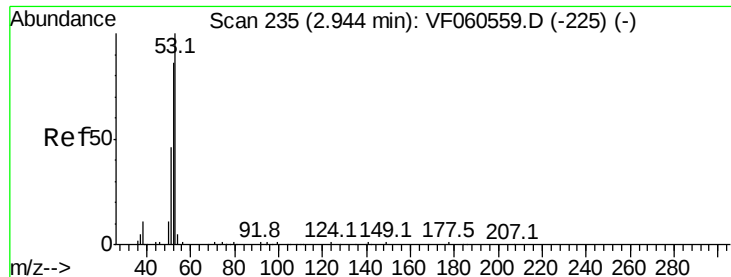


#13

Acrolein
Concen: Below Cal
RT: 1.90 min Scan# 128
Delta R.T. -0.10 min
Lab File: VF060616.D
Acq: 6 Nov 2018 16:57

Tgt Ion: 56 Resp: 521
Ion Ratio Lower Upper
56 100
55 67.1 61.8 92.6





#15

Acrylonitrile

Concen: 1.715 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

Instrument :

MSVOA_F

ClientSampled :

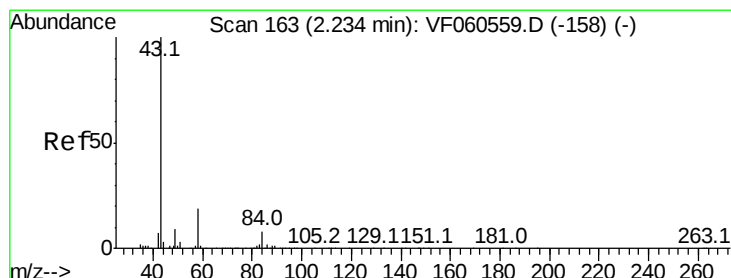
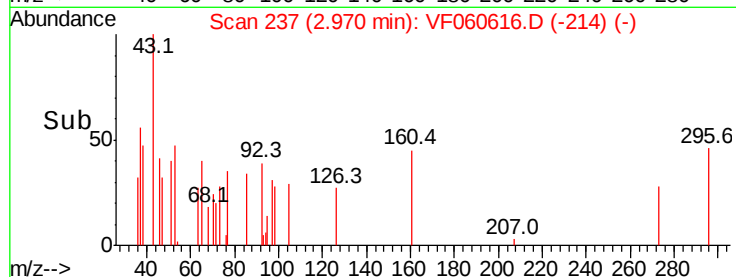
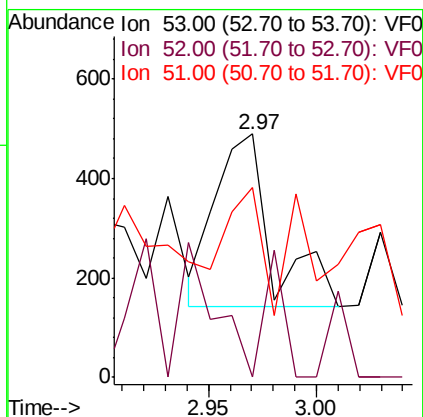
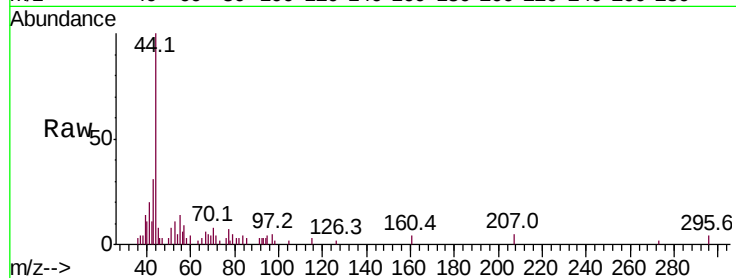
Tot Ion: 53 Resp: 632

Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 78.2 38.2 57.2#



#16

Acetone

Concen: 10.207 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF060616.D

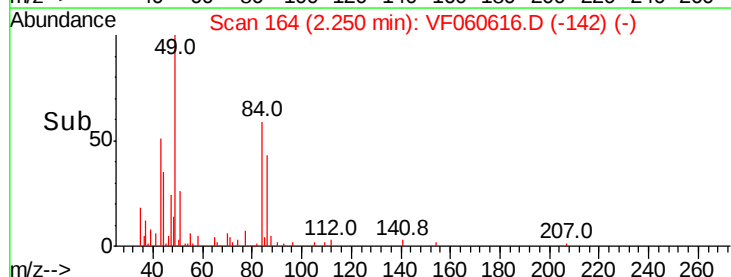
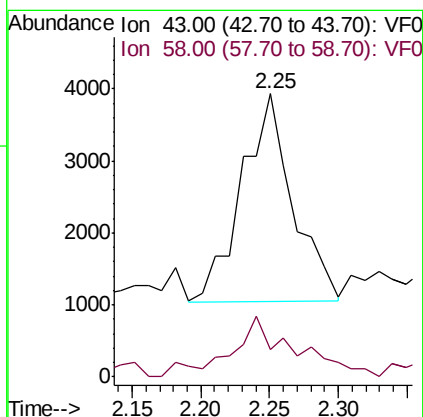
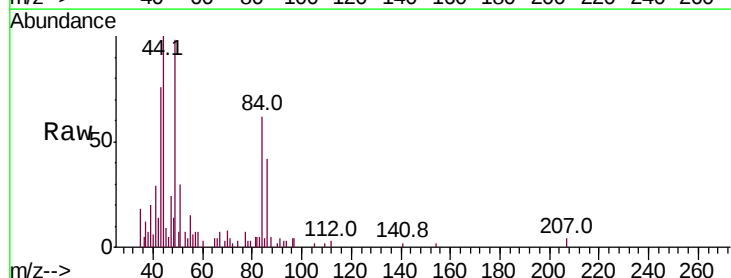
Acq: 6 Nov 2018 16:57

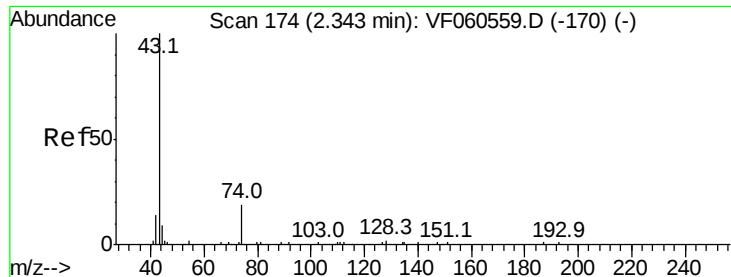
Tgt Ion: 43 Resp: 7437

Ion Ratio Lower Upper

43 100

58 9.7 14.6 22.0#

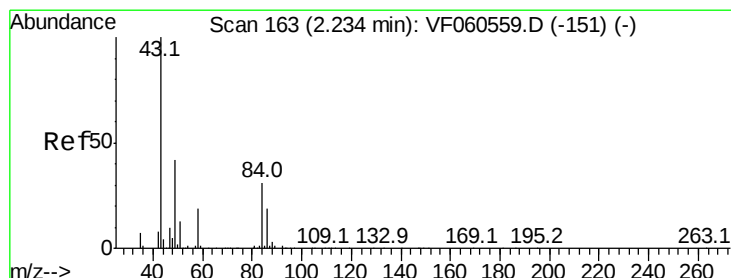
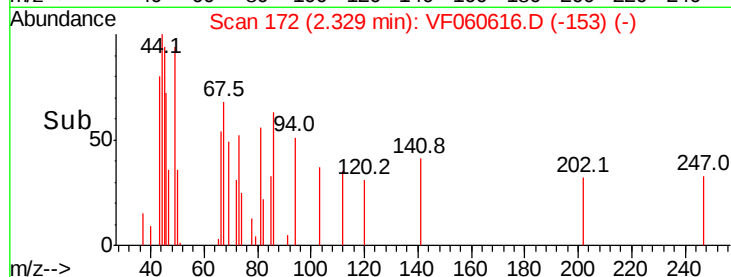
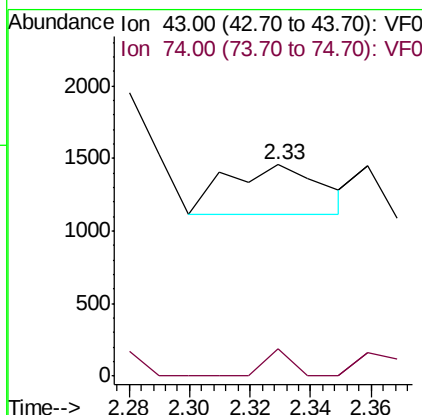
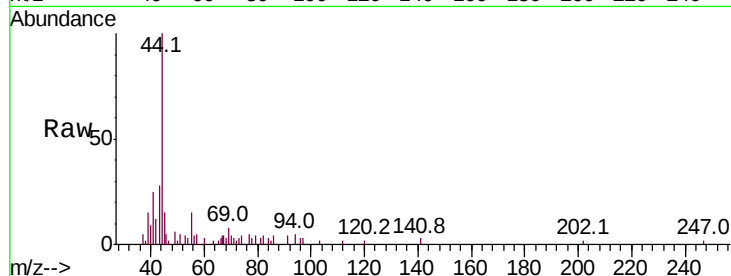




#18
Methyl Acetate
Concen: 1.147 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF060616.D
Acq: 6 Nov 2018 16:57

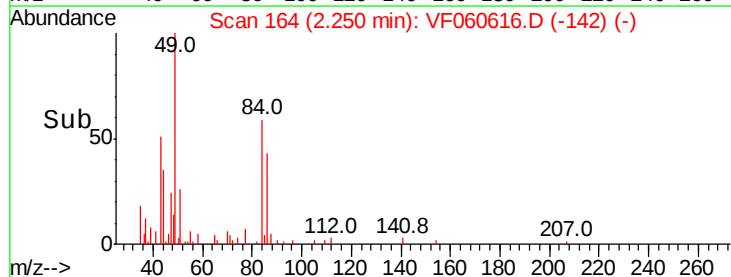
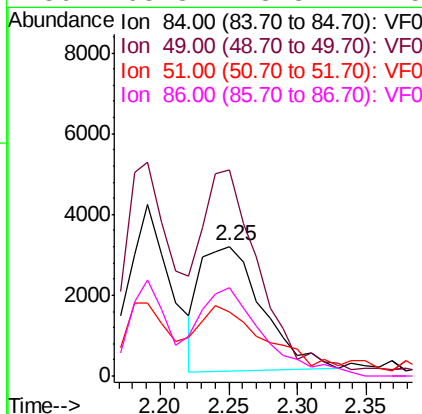
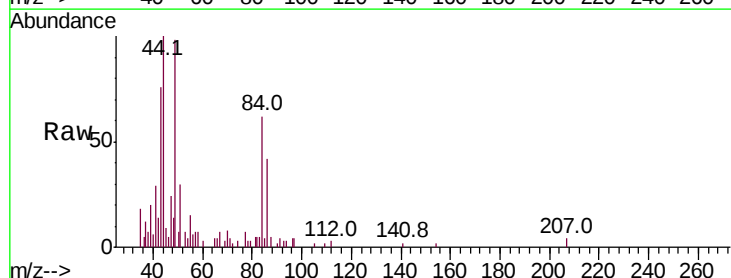
Instrument :
MSVOA_F
ClientSampled :

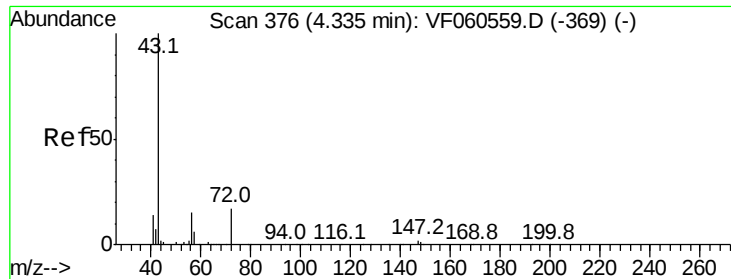
Tot Ion: 43 Resp: 763
Ion Ratio Lower Upper
43 100
74 12.6 12.1 18.1



#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 164
Delta R.T. 0.02 min
Lab File: VF060616.D
Acq: 6 Nov 2018 16:57

Tgt Ion: 84 Resp: 9692
Ion Ratio Lower Upper
84 100
49 158.9 109.9 164.9
51 49.2 35.8 53.8
86 68.3 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.37 min Scan# 379

Delta R.T. 0.04 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

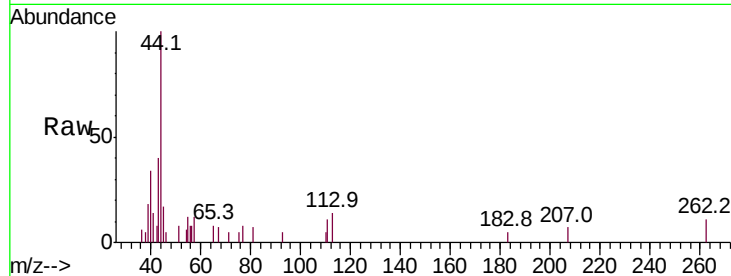
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1373

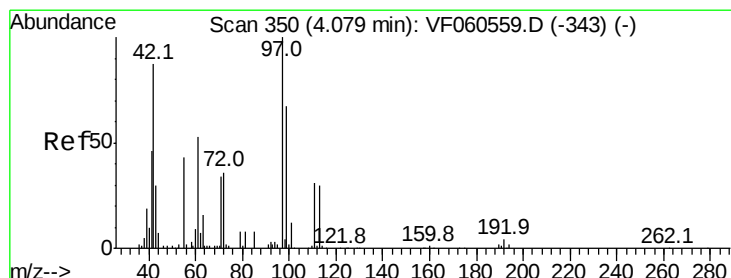
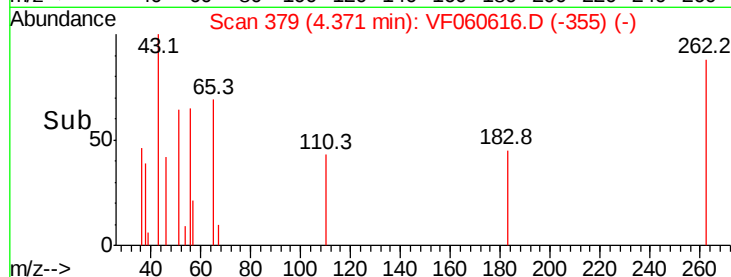
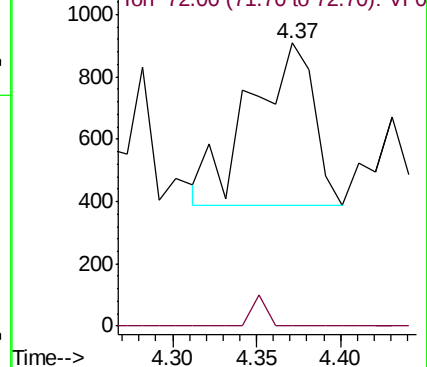
Ion Ratio Lower Upper

43 100

72 0.0 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: VF060616.D

Acq: 6 Nov 2018 16:57

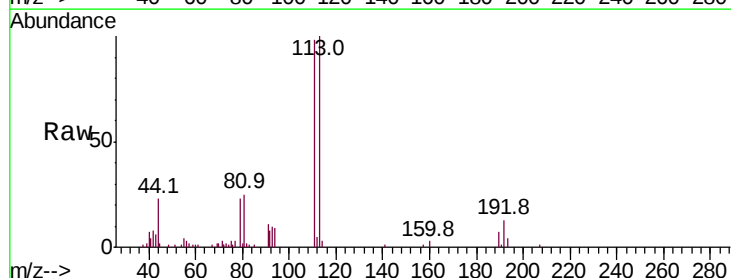
Tgt Ion: 42 Resp: 2043

Ion Ratio Lower Upper

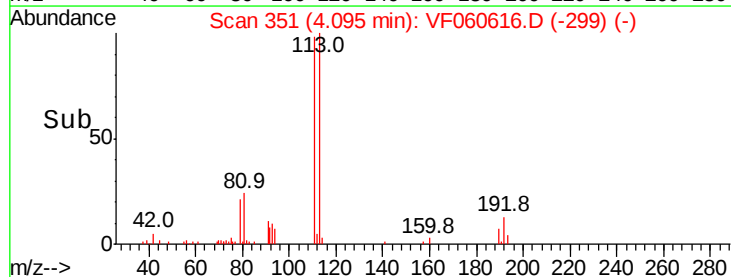
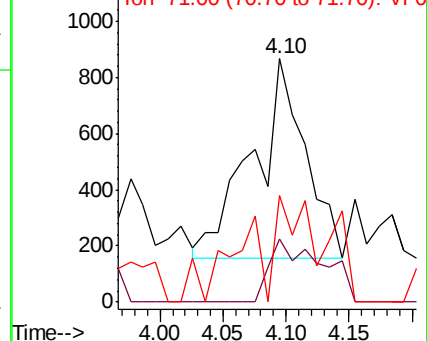
42 100

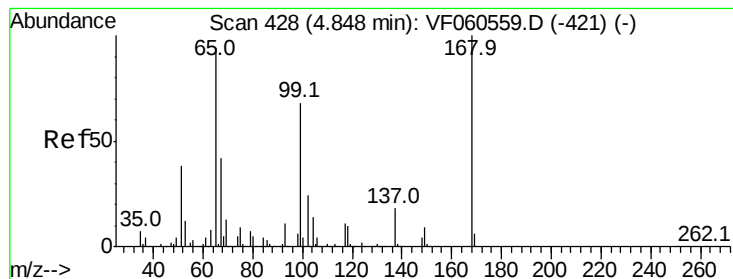
72 31.8 31.4 47.0

71 48.0 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: 48.744 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.02 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

Instrument :

MSVOA_F

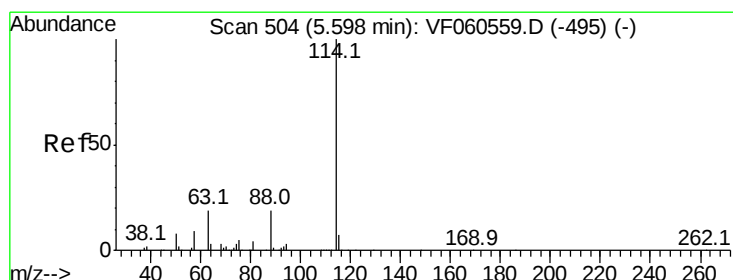
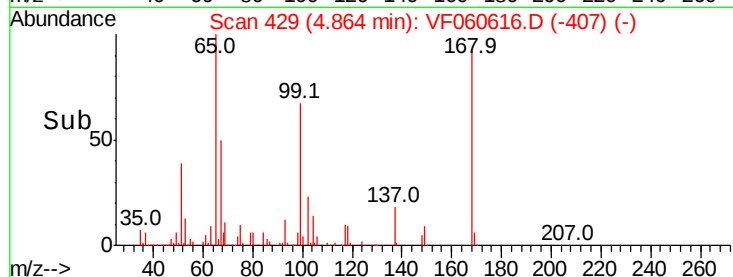
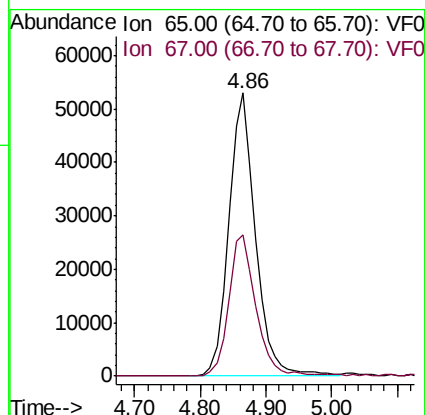
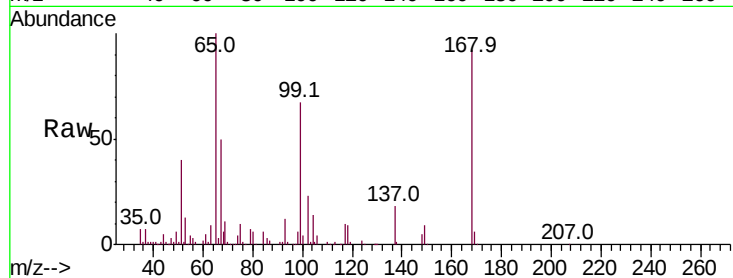
ClientSampleId :

Tot Ion: 65 Resp: 150715

Ion Ratio Lower Upper

65 100

67 49.8 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.02 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

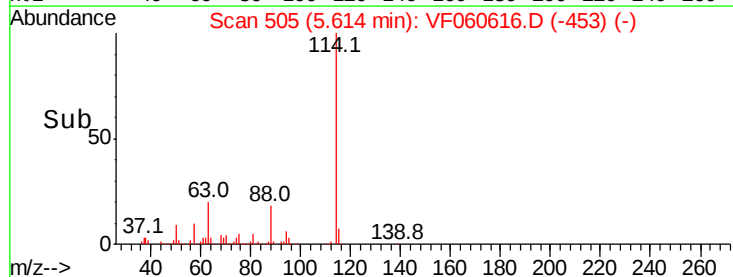
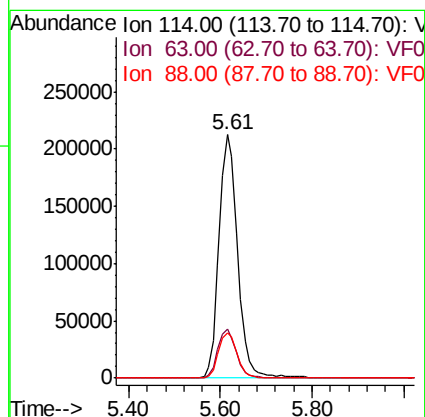
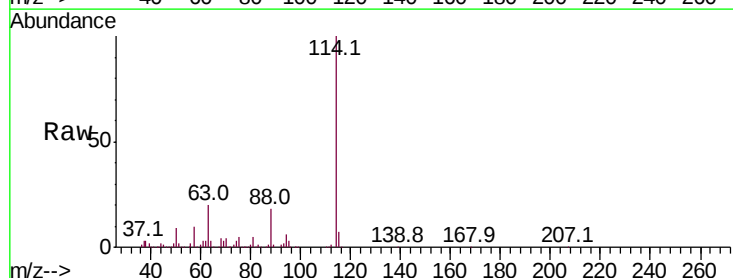
Tgt Ion: 114 Resp: 595101

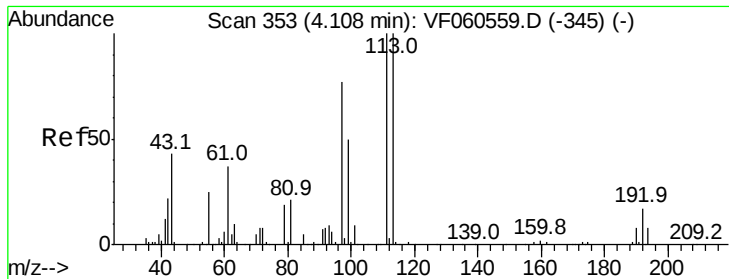
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

88 18.4 0.0 38.2





#35

Dibromofluoromethane

Concen: 42.504 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.03 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

Instrument :
MSVOA_F
ClientSampleId :

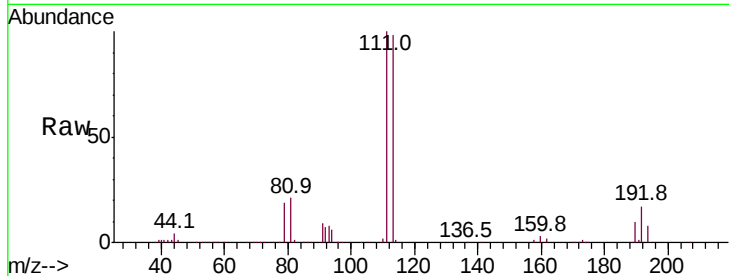
Tot Ion:113 Resp: 195422

Ion Ratio Lower Upper

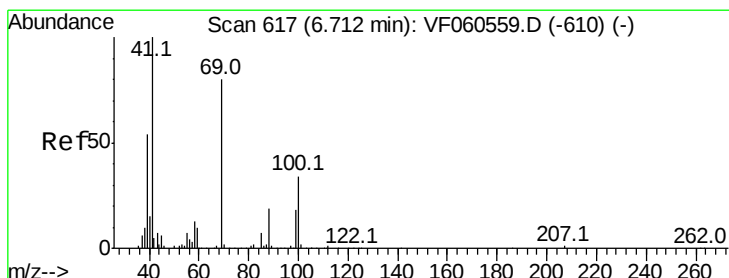
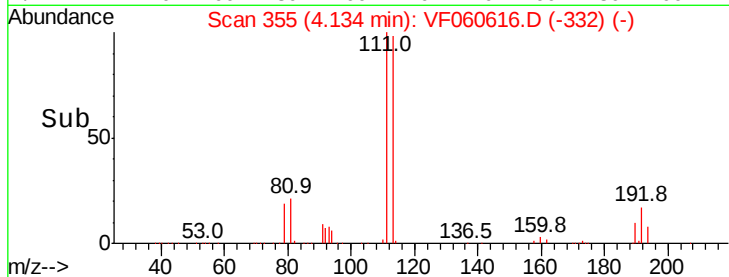
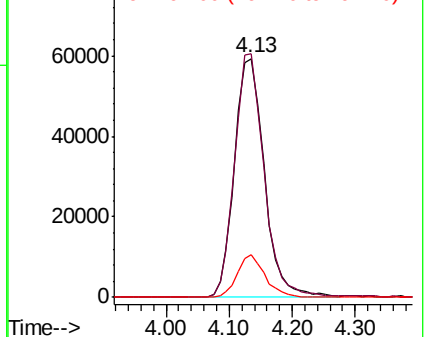
113 100

111 101.9 79.9 119.9

192 17.6 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: 3.097 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.01 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

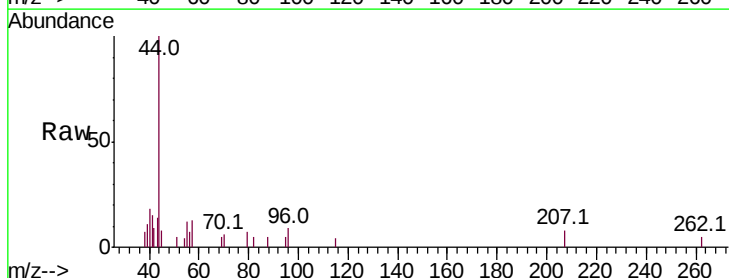
Tgt Ion: 88 Resp: 81

Ion Ratio Lower Upper

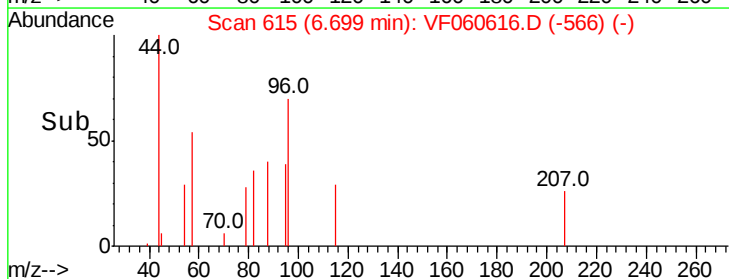
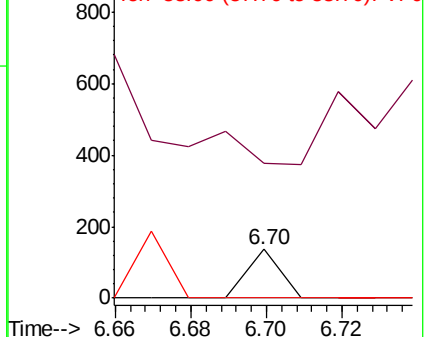
88 100

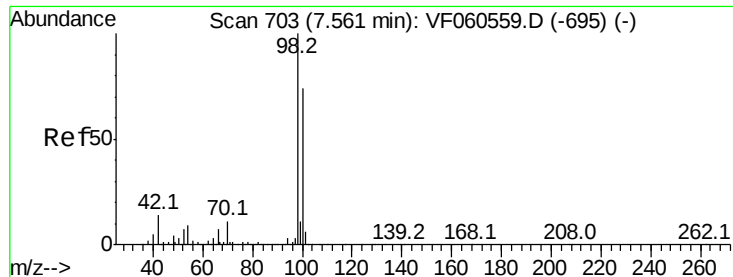
43 275.2 61.2 91.8#

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: 33.317 ug/l

RT: 7.58 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

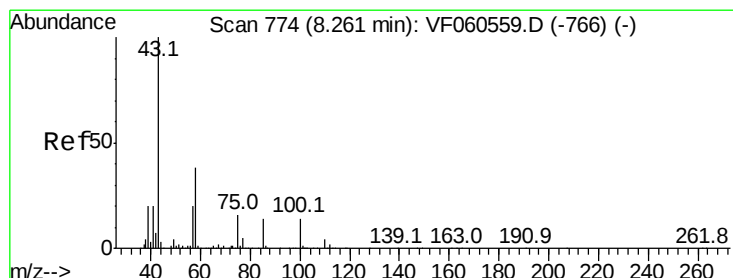
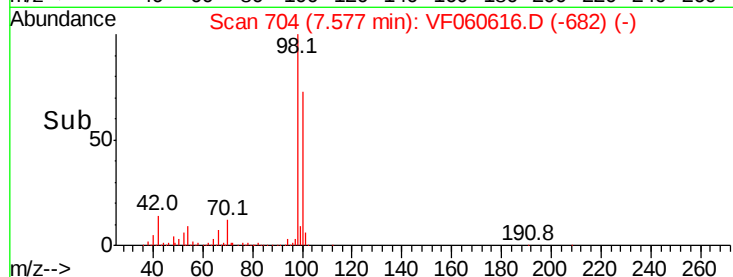
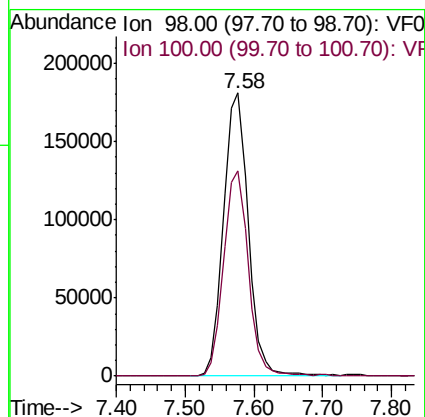
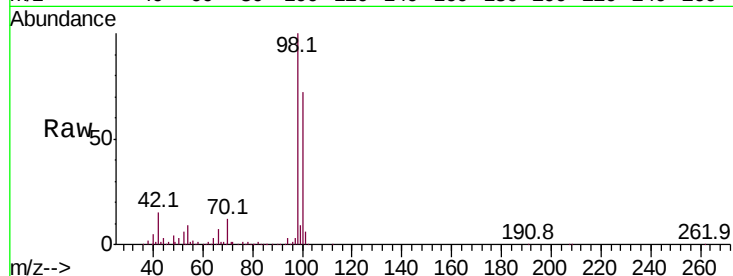
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 98 Resp: 453778

Ion Ratio Lower Upper

98 100

100 72.5 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 1.683 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF060616.D

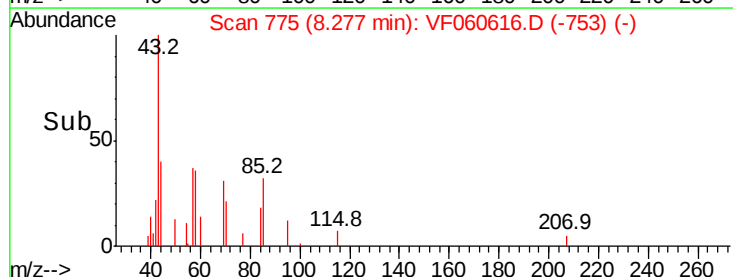
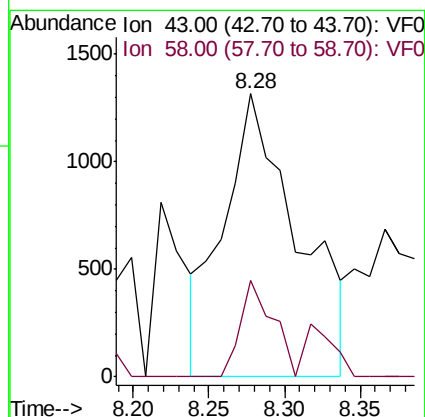
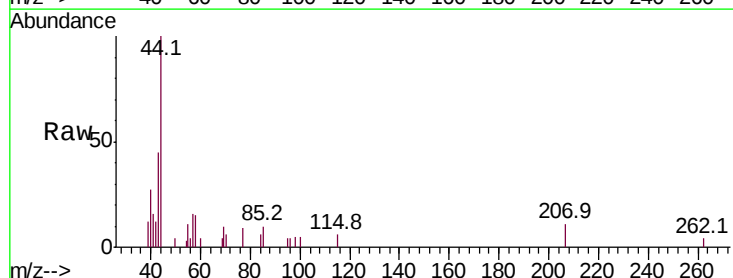
Acq: 6 Nov 2018 16:57

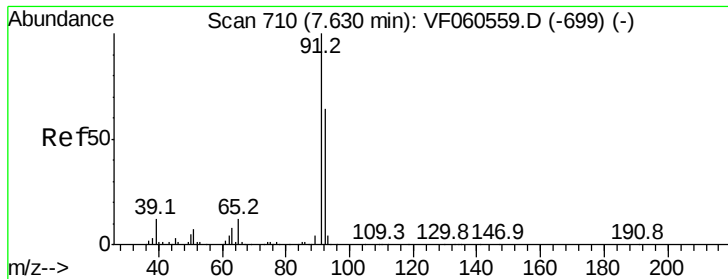
Tgt Ion: 43 Resp: 4502

Ion Ratio Lower Upper

43 100

58 33.9 30.1 45.1

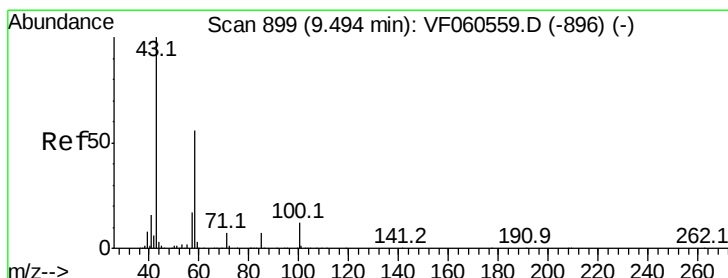
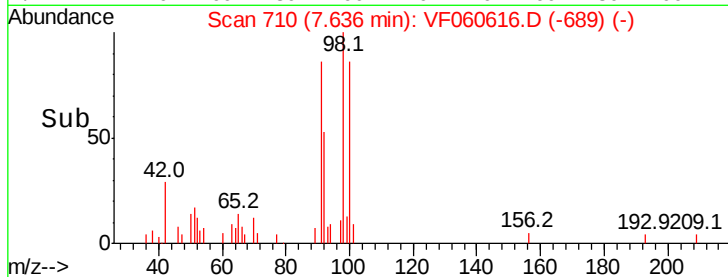
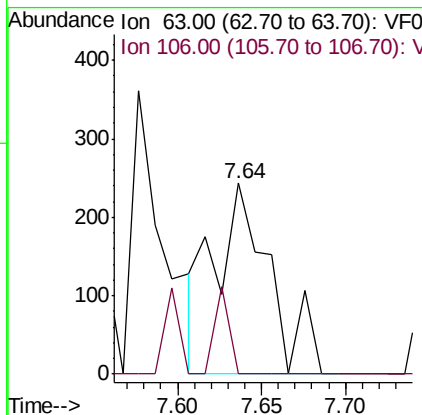
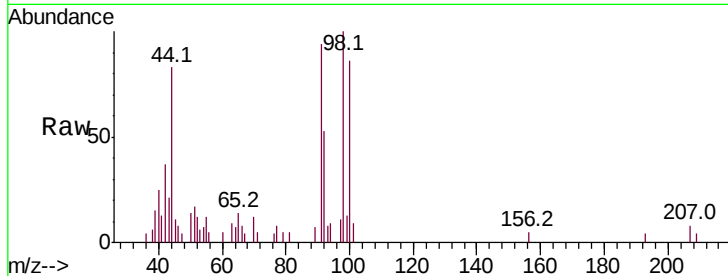




#58
 2-Chloroethyl Vinyl ether
 Concen: Below Cal
 RT: 7.64 min Scan# 710
 Delta R.T. 0.01 min
 Lab File: VF060616.D
 Acq: 6 Nov 2018 16:57

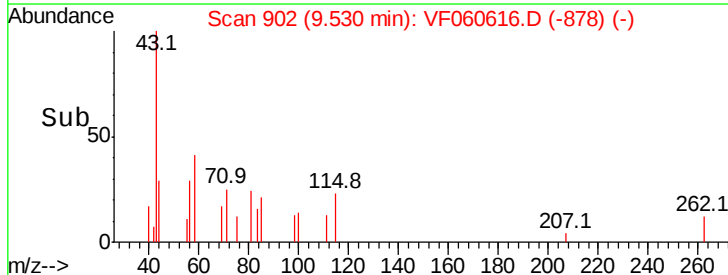
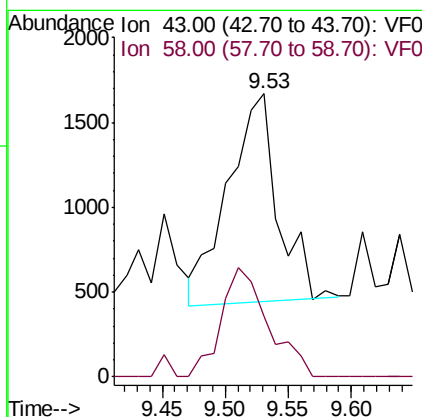
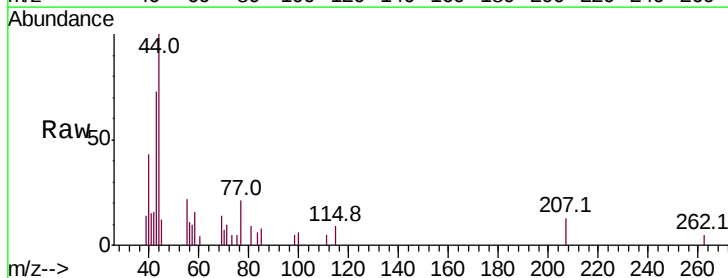
Instrument :
 MSVOA_F
 ClientSampleId :

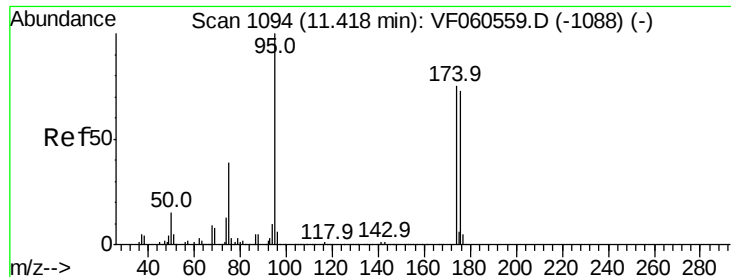
Tot Ion: 63 Resp: 553
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.53 min Scan# 902
 Delta R.T. 0.04 min
 Lab File: VF060616.D
 Acq: 6 Nov 2018 16:57

Tgt Ion: 43 Resp: 3372
 Ion Ratio Lower Upper
 43 100
 58 21.5 26.1 78.3#





#62

4-Bromofluorobenzene

Concen: 41.281 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

Instrument :

MSVOA_F

ClientSampleId :

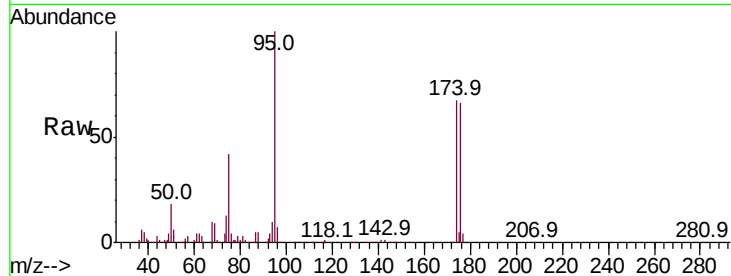
Tot Ion: 95 Resp: 245930

Ion Ratio Lower Upper

95 100

174 66.9 0.0 149.0

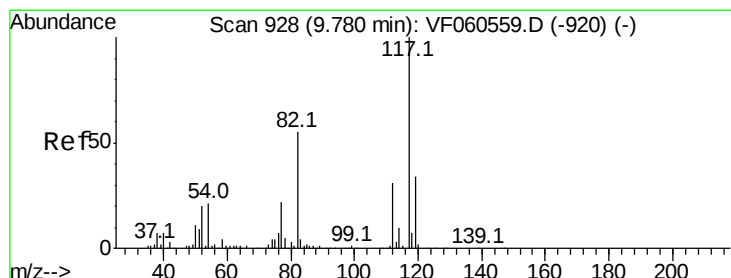
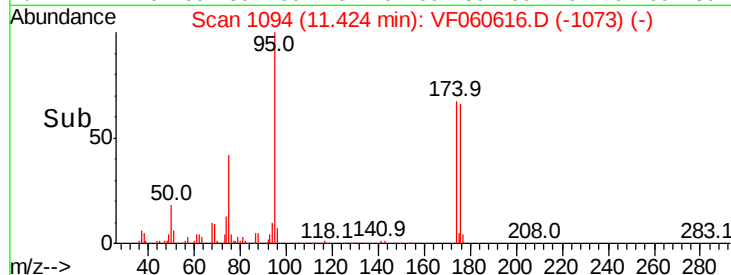
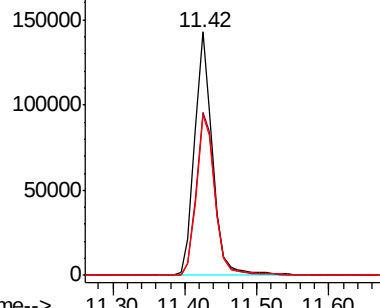
176 65.9 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF060616.D (-1088) (-)

Ion 174.00 (173.70 to 174.70): VF060616.D (-1088) (-)

Ion 176.00 (175.70 to 176.70): VF060616.D (-1088) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 929

Delta R.T. 0.02 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

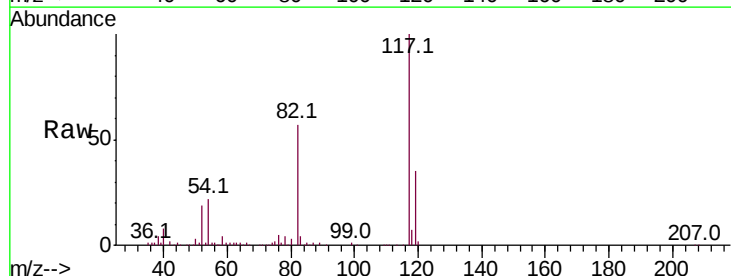
Tgt Ion: 117 Resp: 485367

Ion Ratio Lower Upper

117 100

82 56.8 43.9 65.9

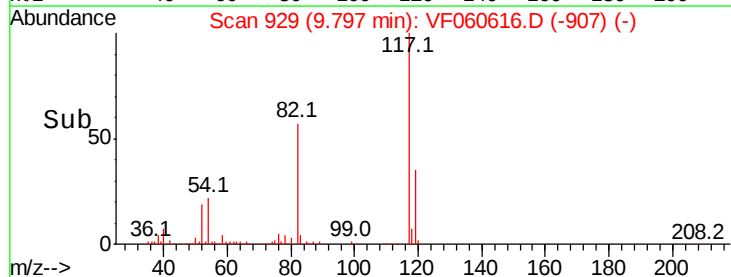
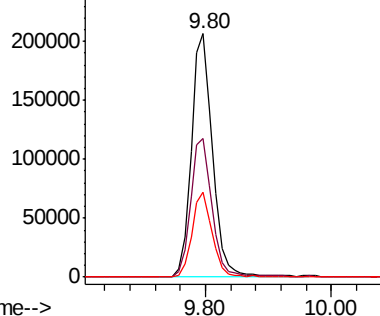
119 34.8 27.4 41.0

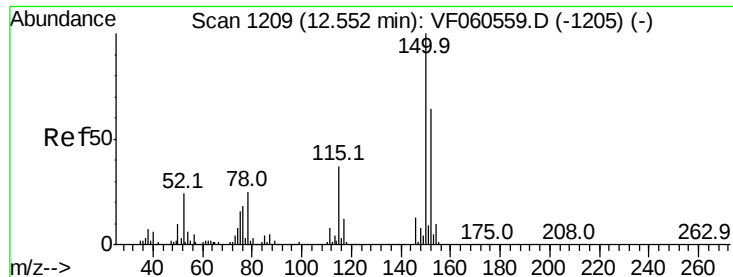


Abundance Ion 117.00 (116.70 to 117.70): VF060616.D (-920) (-)

Ion 82.00 (81.70 to 82.70): VF060616.D (-920) (-)

Ion 119.00 (118.70 to 119.70): VF060616.D (-920) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

Instrument :

MSVOA_F

ClientSampleId :

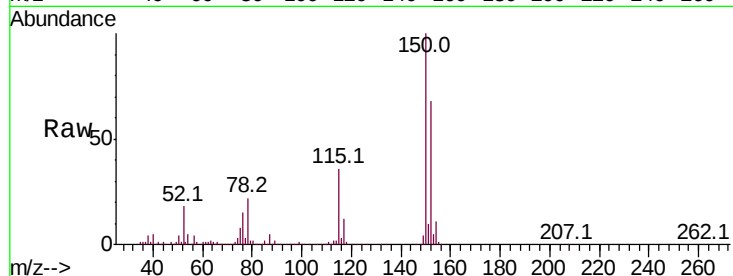
Tot Ion:152 Resp: 296830

Ion Ratio Lower Upper

152 100

115 53.2 29.6 88.8

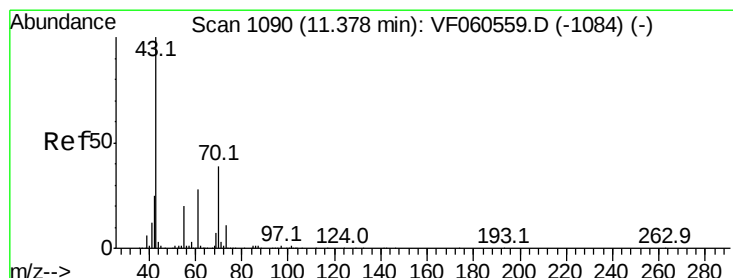
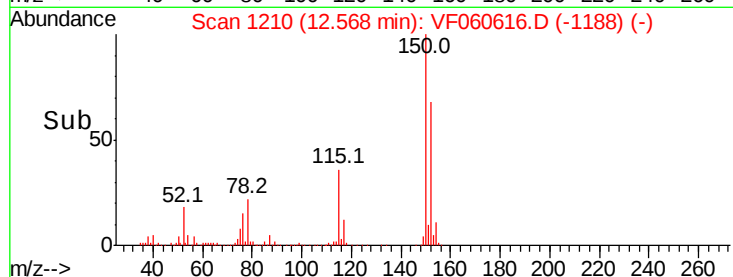
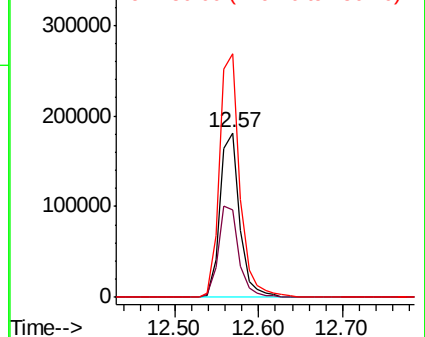
150 148.1 0.0 315.6



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-ethyl acetate

Concen: Below Cal

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF060616.D

Acq: 6 Nov 2018 16:57

Tgt Ion: 43 Resp: 734

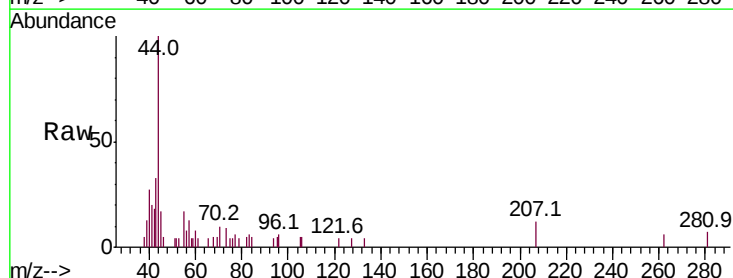
Ion Ratio Lower Upper

43 100

70 31.5 30.9 46.3

55 50.9 16.6 24.8#

61 13.5 22.0 33.0#



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

