

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110818\
 Data File : VF060654.D
 Acq On : 8 Nov 2018 17:20
 Operator : VA/AP
 Sample : J5838-01
 Misc : 6.96µ/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 09 12:33:43 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	4.85	168	269100	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	451169	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	399492	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	202798	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	114369	42.06	ug/l	-0.01
Spiked Amount			Recovery	=	84.12%	
35) Dibromofluoromethane	4.11	113	138652	39.78	ug/l	0.00
Spiked Amount			Recovery	=	79.56%	
50) Toluene-d8	7.55	98	328724	31.84	ug/l	-0.01
Spiked Amount			Recovery	=	63.68%	
62) 4-Bromofluorobenzene	11.40	95	162431	35.96	ug/l	-0.01
Spiked Amount			Recovery	=	71.92%	

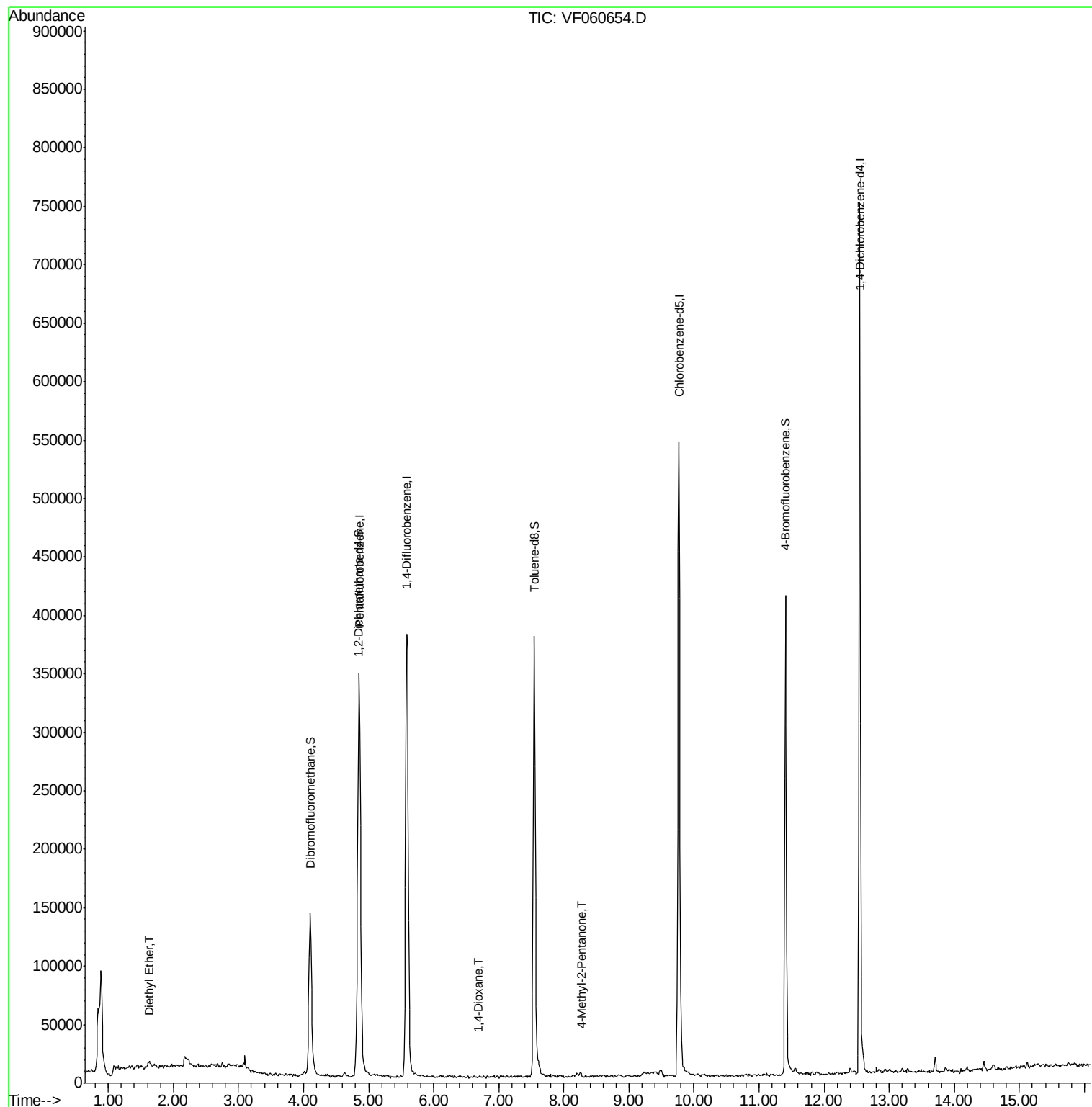
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	175	Below Cal	#	41
6) Chloroethane	1.35	64	168	Below Cal	#	1
8) Diethyl Ether	1.63	74	2030	2.697	ug/l	98
11) Tert butyl alcohol	2.55	59	462	Below Cal	#	1
13) Acrolein	1.95	56	503	Below Cal		92
20) Methylene Chloride	2.17	84	8318	Below Cal	#	75
25) 2-Butanone	4.33	43	1189	Below Cal	#	86
29) Tetrahydrofuran	4.08	42	2492	Below Cal	#	62
49) 1,4-Dioxane	6.68	88	126	6.353	ug/l #	55
51) 4-Methyl-2-Pentanone	8.27	43	3304	1.629	ug/l #	85
58) 2-Chloroethyl Vinyl ether	7.62	63	679	Below Cal		100
59) 2-Hexanone	9.49	43	5457	Below Cal		83
74) N-amyl acetate	11.37	43	1737	Below Cal	#	90
89) n-Butylbenzene	12.84	91	1336	Below Cal		67

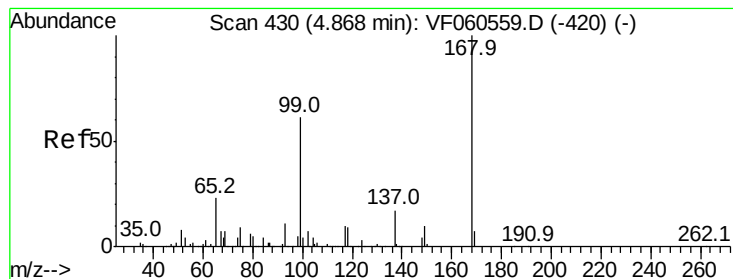
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060654.D

Acq: 8 Nov 2018 17:20

Instrument :

MSVOA_F

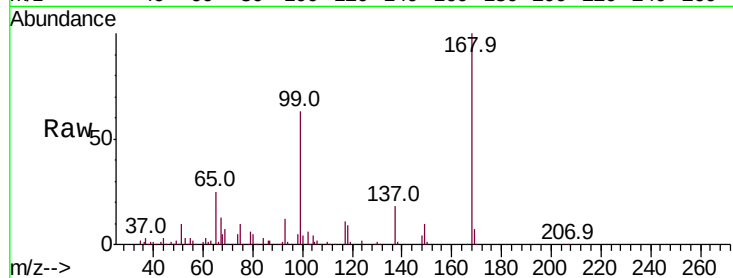
ClientSampleId :

Tot Ion:168 Resp: 269100

Ion Ratio Lower Upper

168 100

99 62.6 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

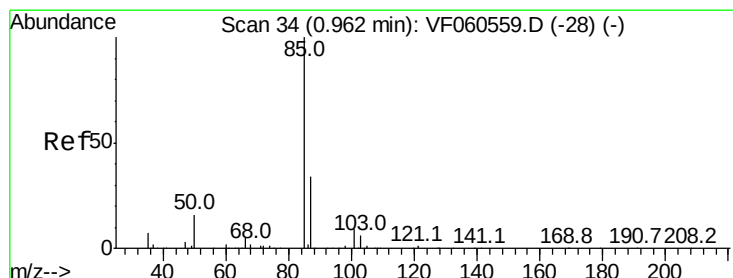
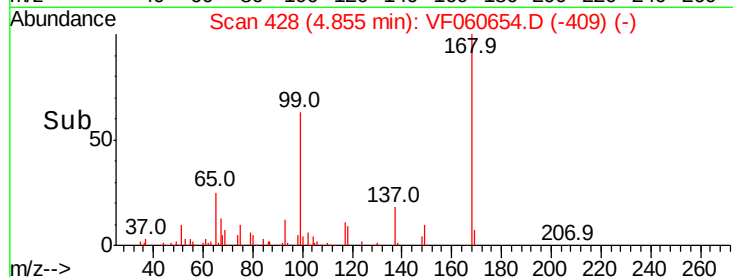
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF060654.D

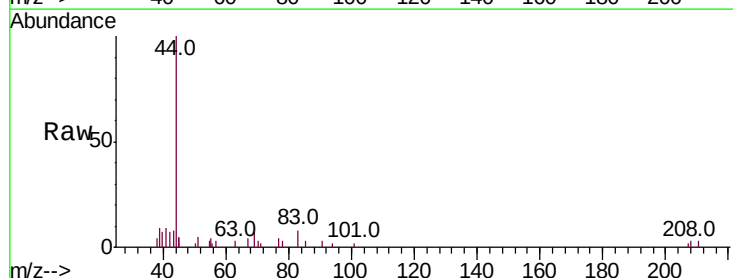
Acq: 8 Nov 2018 17:20

Tgt Ion: 85 Resp: 175

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

0.96

250

200

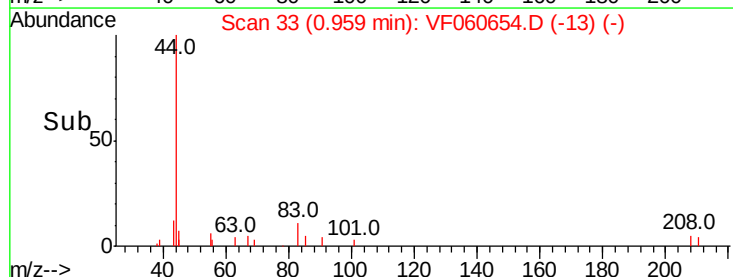
150

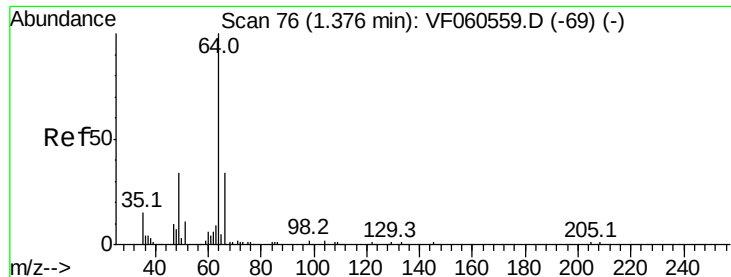
100

50

0

Time--> 0.92 0.94 0.96 0.98





#6

Chloroethane

Concen: Below Cal

RT: 1.35 min Scan# 73

Delta R.T. -0.02 min

Lab File: VF060654.D

Acq: 8 Nov 2018 17:20

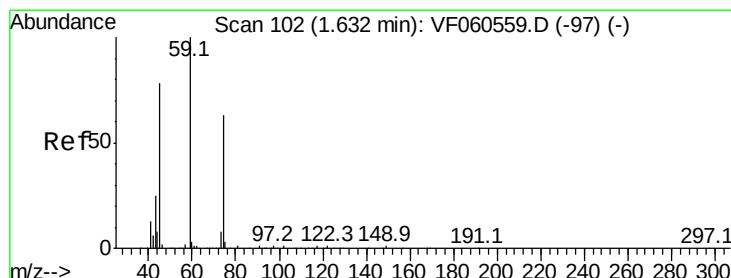
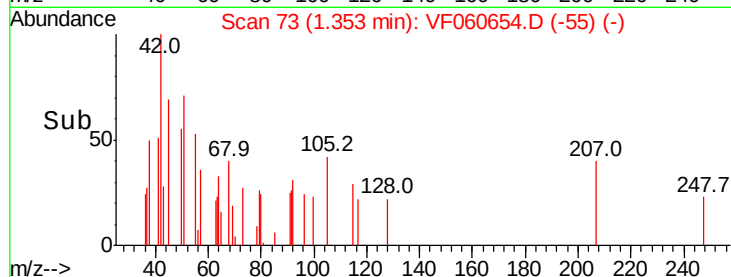
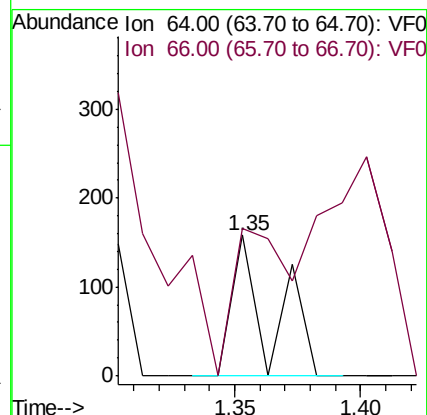
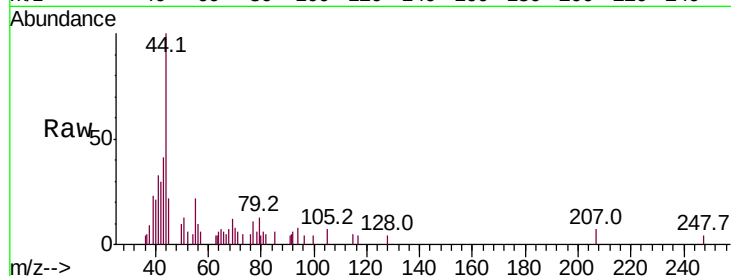
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 64 Resp: 168

Ion Ratio Lower Upper

64 100

66 105.1 27.8 41.8#



#8

Diethyl Ether

Concen: 2.697 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF060654.D

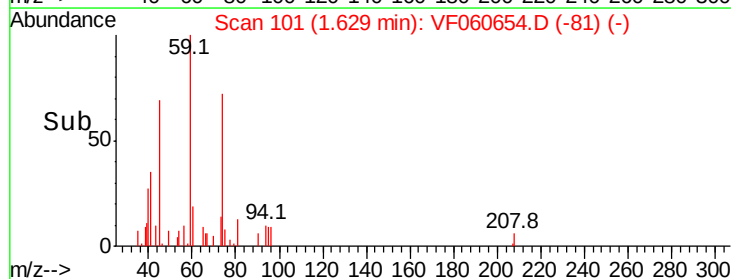
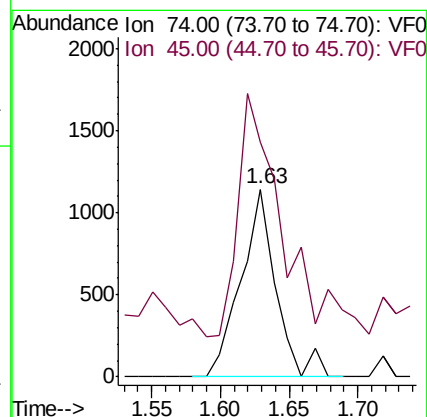
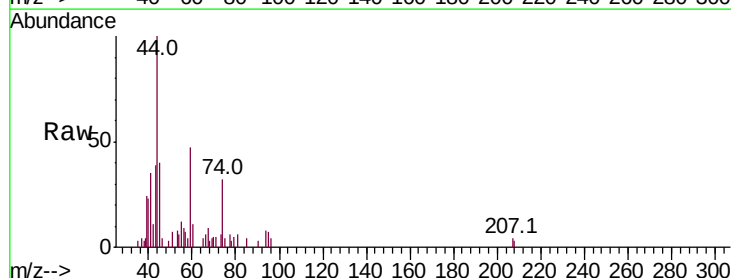
Acq: 8 Nov 2018 17:20

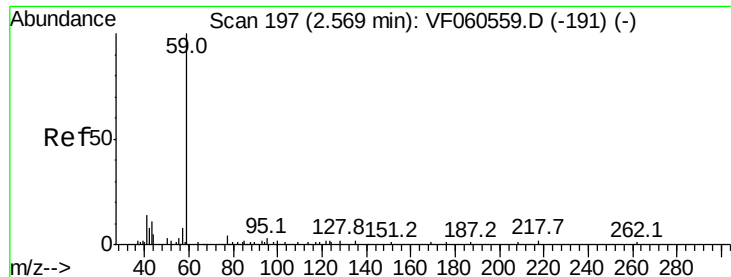
Tgt Ion: 74 Resp: 2030

Ion Ratio Lower Upper

74 100

45 125.2 63.8 191.5



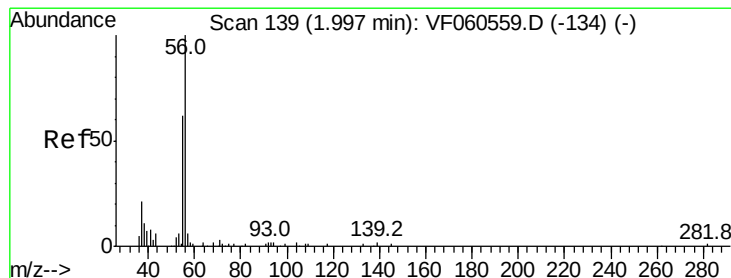
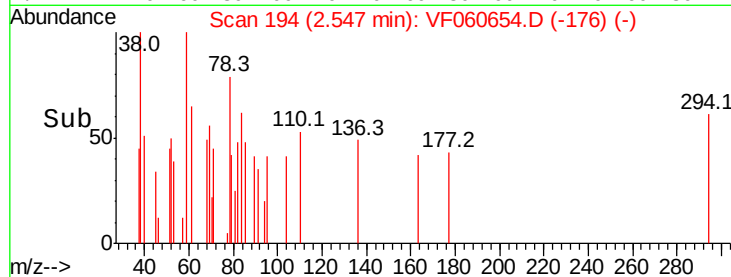
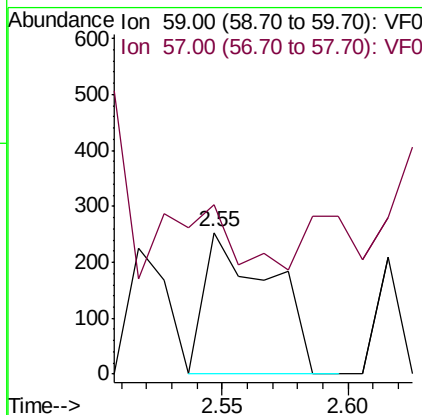
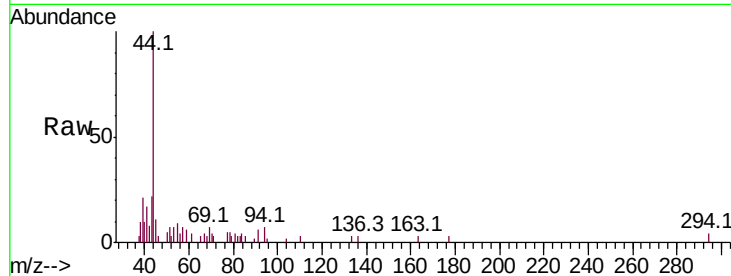


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.55 min Scan# 194
Delta R.T. -0.02 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

Instrument :
MSVOA_F
ClientSampled :

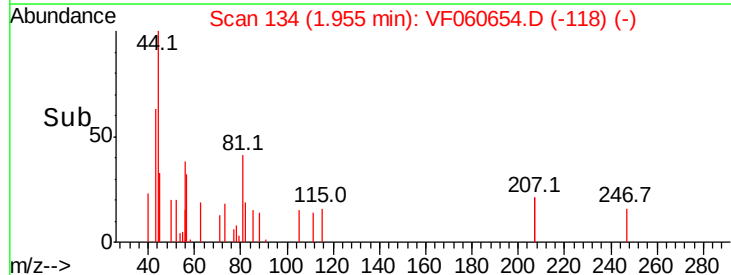
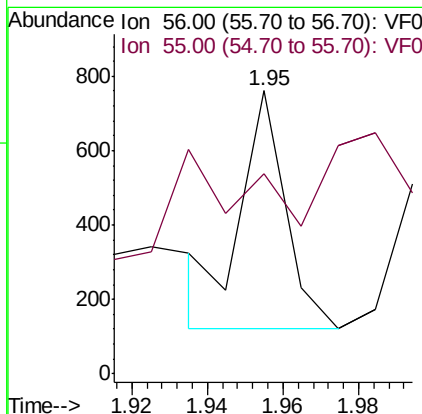
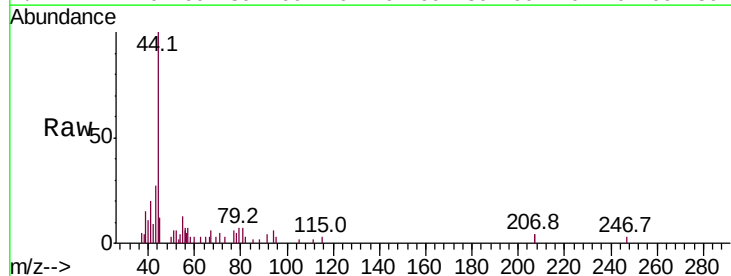
Tot Ion: 59 Resp: 462
Ion Ratio Lower Upper
59 100
57 119.8 19.0 28.4#

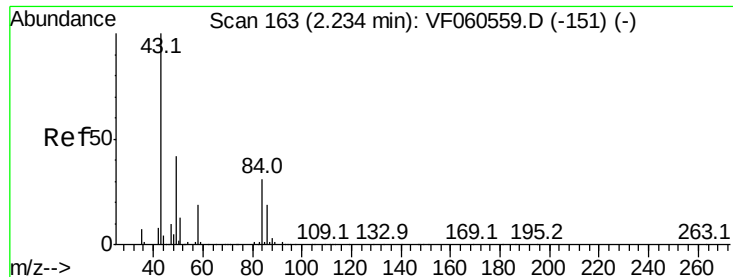


#13

Acrolein
Concen: Below Cal
RT: 1.95 min Scan# 134
Delta R.T. -0.04 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

Tgt Ion: 56 Resp: 503
Ion Ratio Lower Upper
56 100
55 70.7 61.8 92.6

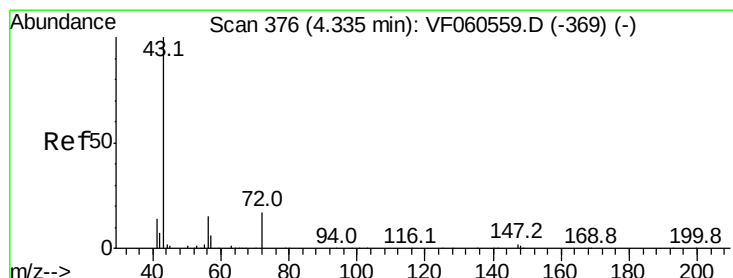
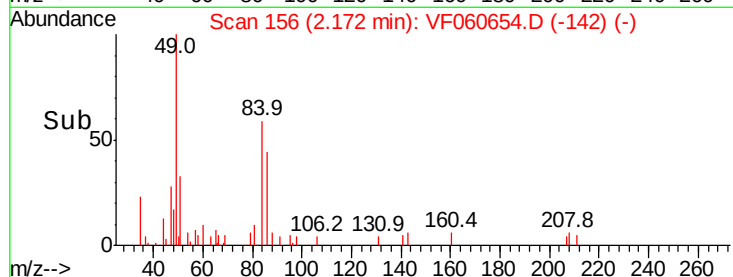
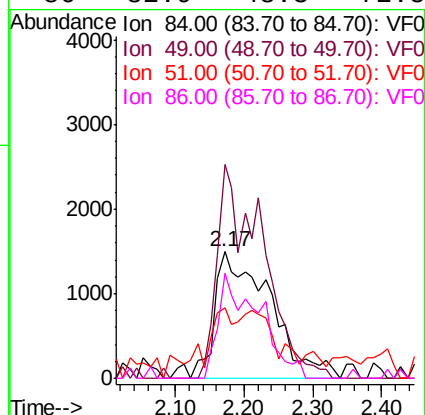
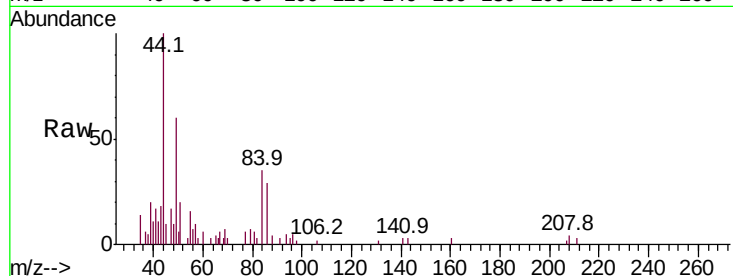




#20
Methylene Chloride
Concen: Below Cal
RT: 2.17 min Scan# 156
Delta R.T. -0.06 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

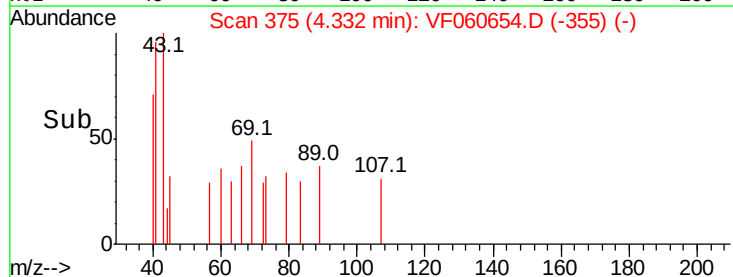
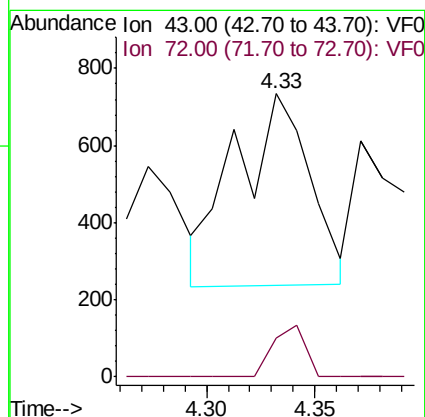
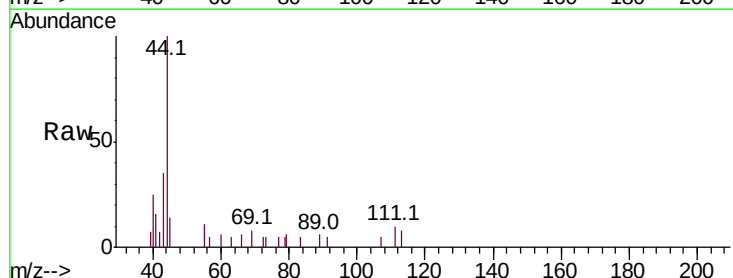
Instrument :
MSVOA_F
ClientSampleId :

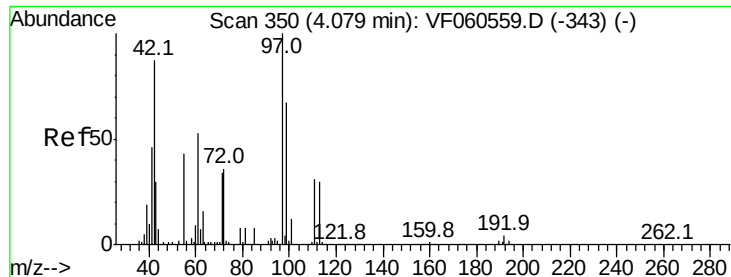
Tot Ion: 84 Resp: 8318
Ion Ratio Lower Upper
84 100
49 169.3 109.9 164.9#
51 55.4 35.8 53.8#
86 82.9 48.3 72.5#



#25
2-Butanone
Concen: Below Cal
RT: 4.33 min Scan# 375
Delta R.T. -0.00 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

Tgt Ion: 43 Resp: 1189
Ion Ratio Lower Upper
43 100
72 13.8 16.2 24.2#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 349

Delta R.T. -0.00 min

Lab File: VF060654.D

Acq: 8 Nov 2018 17:20

Instrument :
MSVOA_F
ClientSampleId :

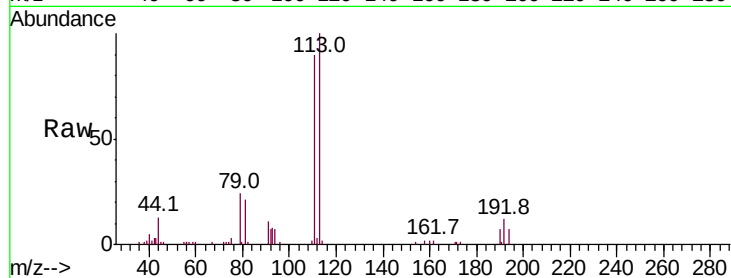
Tot Ion: 42 Resp: 2492

Ion Ratio Lower Upper

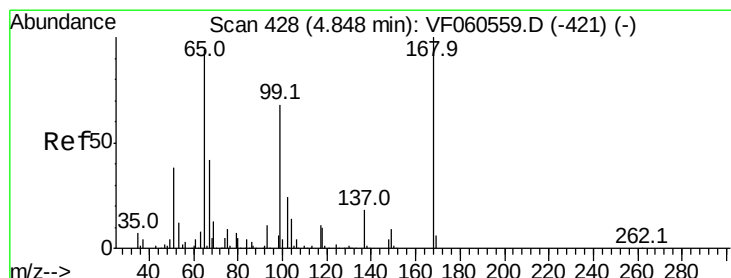
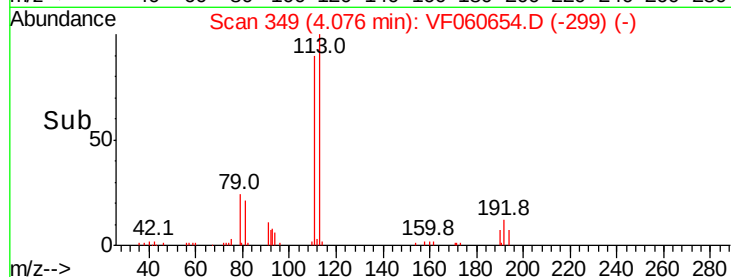
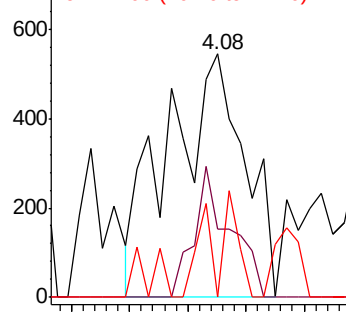
42 100

72 25.1 31.4 47.0#

71 7.4 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: 42.064 ug/l

RT: 4.84 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF060654.D

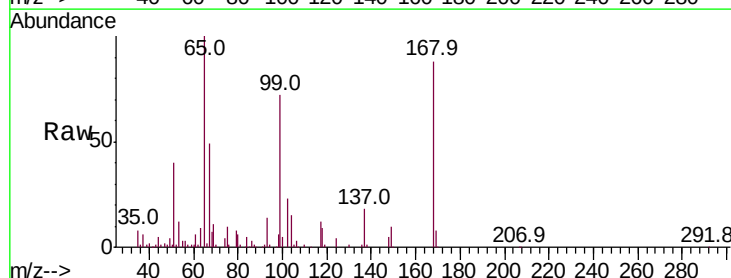
Acq: 8 Nov 2018 17:20

Tgt Ion: 65 Resp: 114369

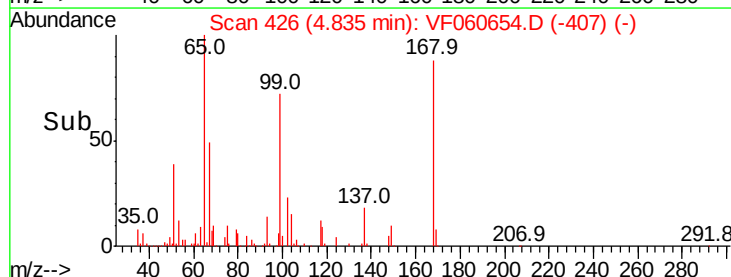
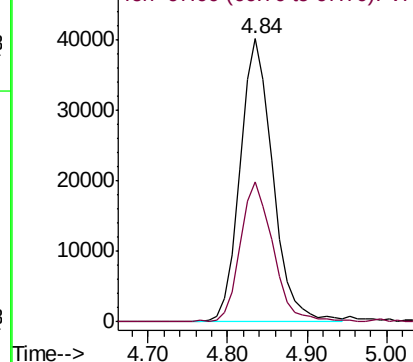
Ion Ratio Lower Upper

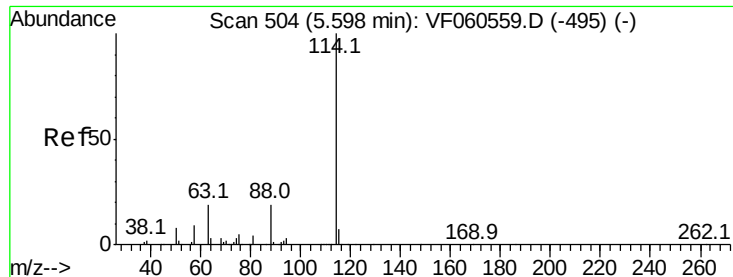
65 100

67 49.3 0.0 101.8



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

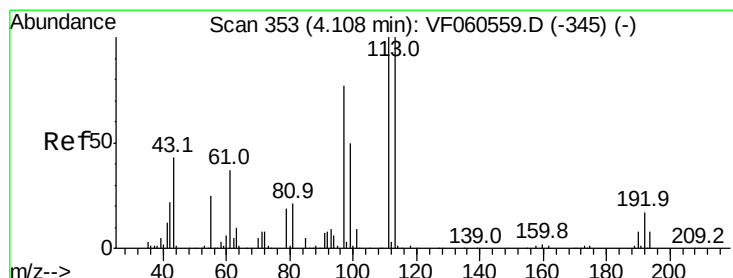
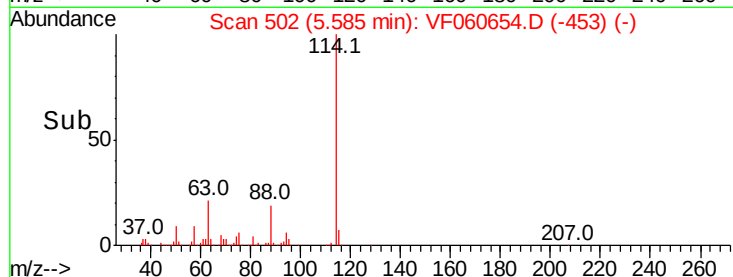
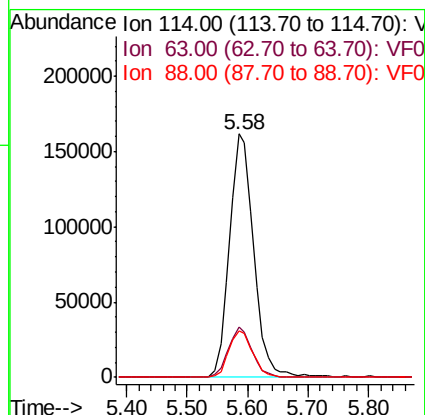
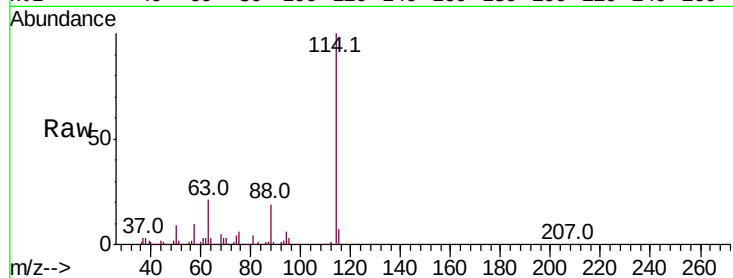




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF060654.D
 Acq: 8 Nov 2018 17:20

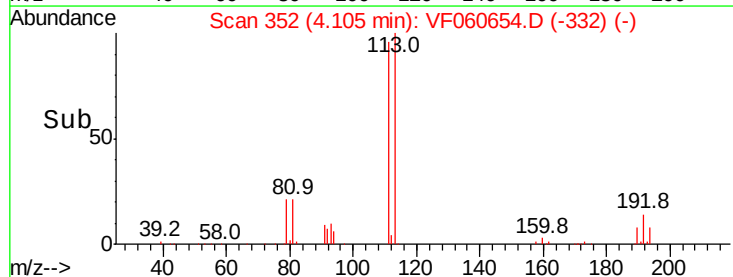
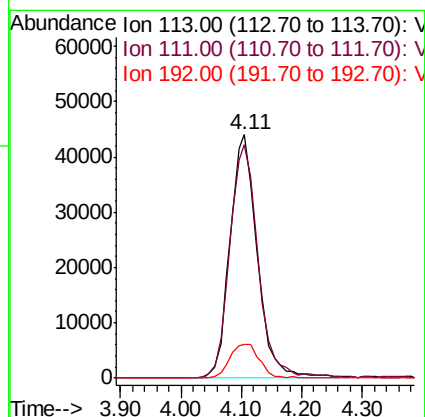
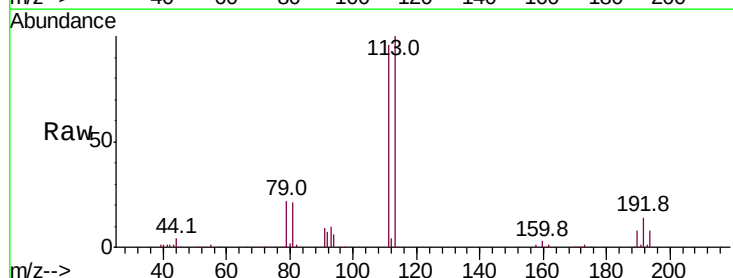
Instrument :
 MSVOA_F
 ClientSampleId :

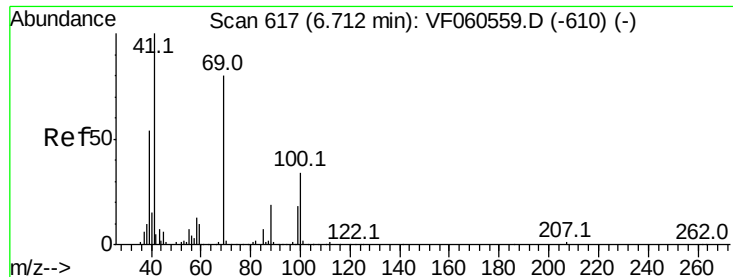
Tot Ion:114 Resp: 451169
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 39.0
 88 19.1 0.0 38.2



#35
 Dibromofluoromethane
 Concen: 39.777 ug/l
 RT: 4.11 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VF060654.D
 Acq: 8 Nov 2018 17:20

Tgt Ion:113 Resp: 138652
 Ion Ratio Lower Upper
 113 100
 111 95.9 79.9 119.9
 192 14.1 13.3 19.9





#49

1,4-Dioxane

Concen: 6.353 ug/l

RT: 6.68 min Scan# 613

Delta R.T. -0.03 min

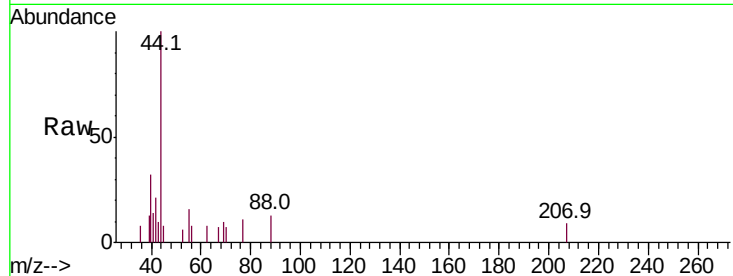
Lab File: VF060654.D

Acq: 8 Nov 2018 17:20

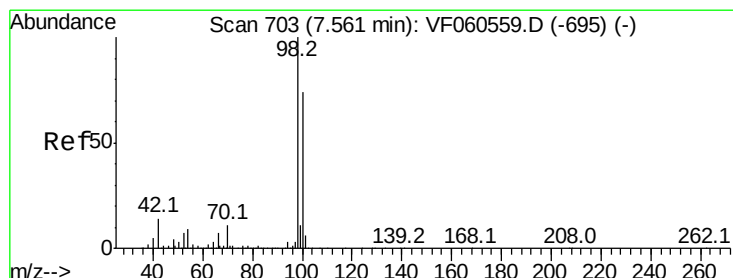
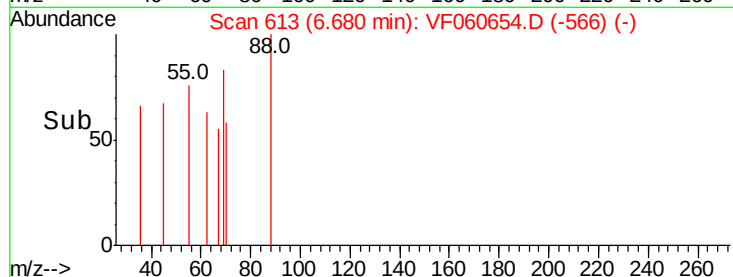
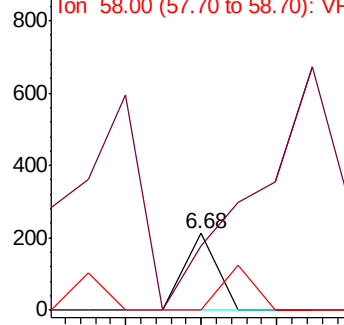
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 126

Ion	Ratio	Lower	Upper
88	100		
43	83.1	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: 31.835 ug/l

RT: 7.55 min Scan# 701

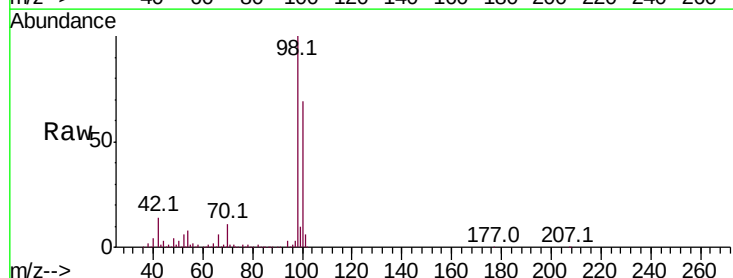
Delta R.T. -0.01 min

Lab File: VF060654.D

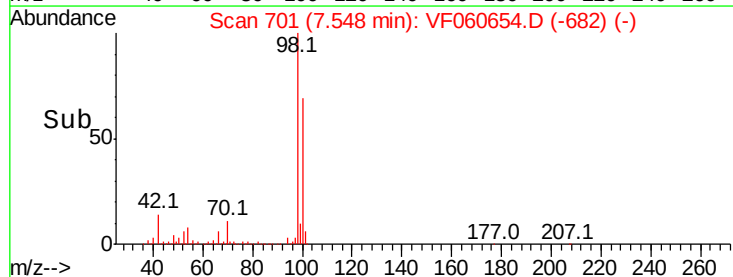
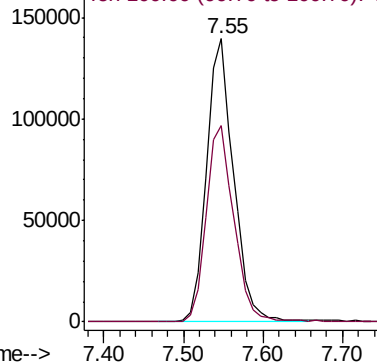
Acq: 8 Nov 2018 17:20

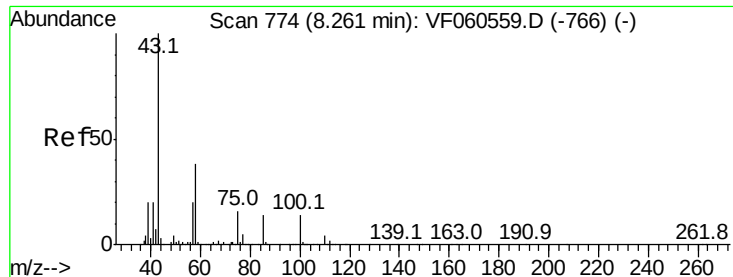
Tgt Ion: 98 Resp: 328724

Ion	Ratio	Lower	Upper
98	100		
100	69.3	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: 1.629 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF060654.D

Acq: 8 Nov 2018 17:20

Instrument :

MSVOA_F

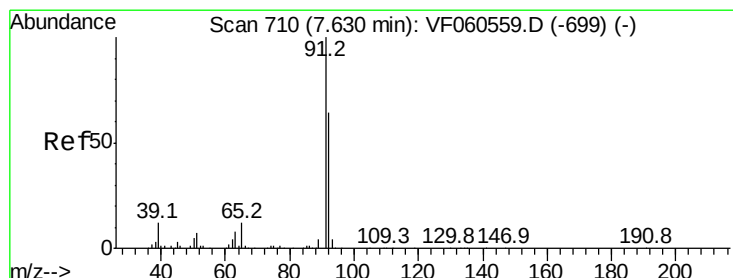
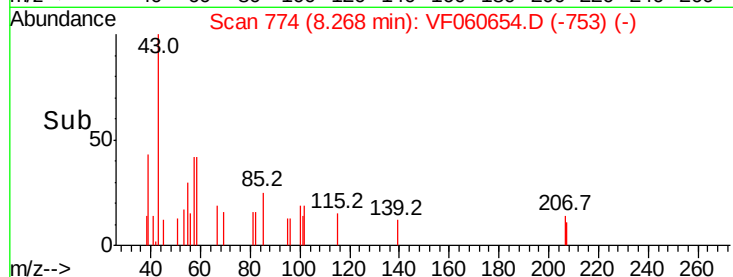
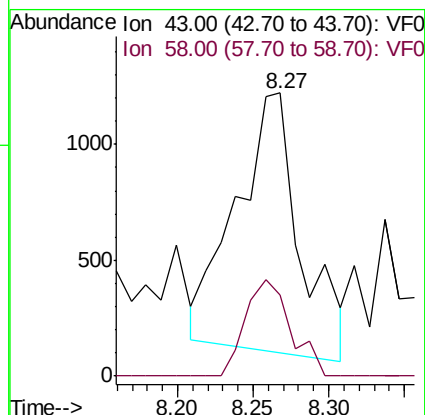
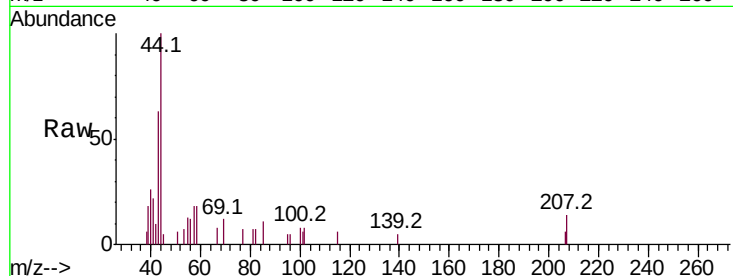
ClientSampleId :

Tot Ion: 43 Resp: 3304

Ion Ratio Lower Upper

43 100

58 28.5 30.1 45.1#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.62 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF060654.D

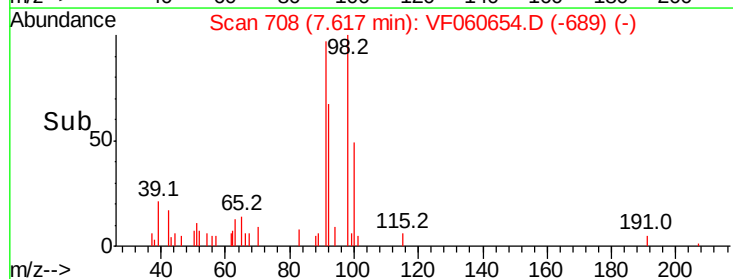
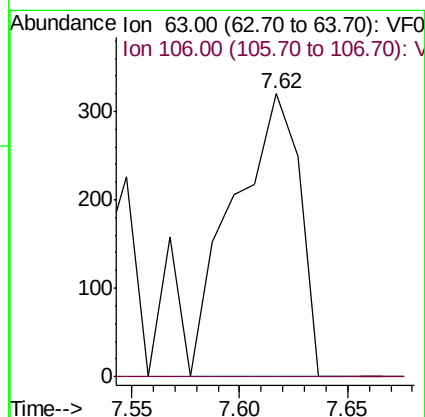
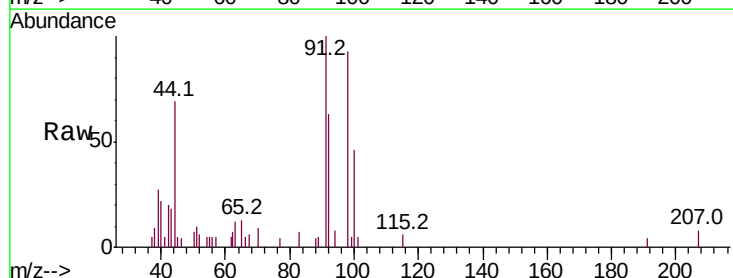
Acq: 8 Nov 2018 17:20

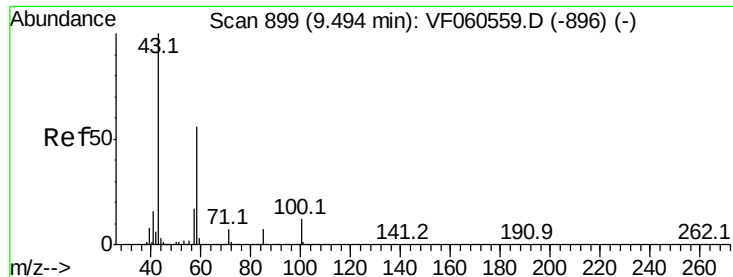
Tgt Ion: 63 Resp: 679

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

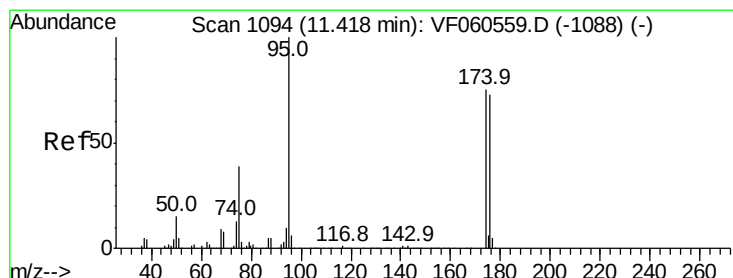
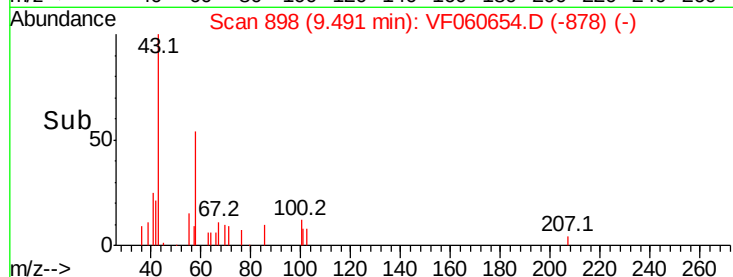
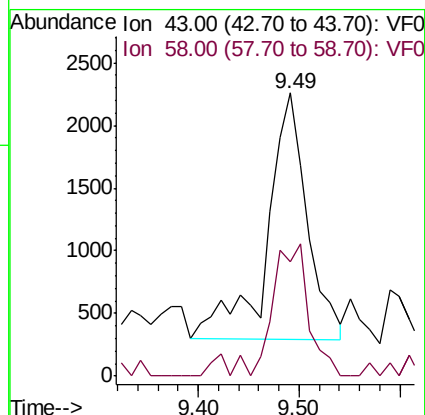
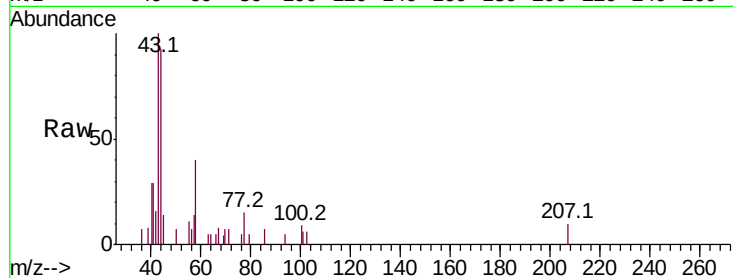




#59
2-Hexanone
Concen: Below Cal
RT: 9.49 min Scan# 898
Delta R.T. -0.00 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

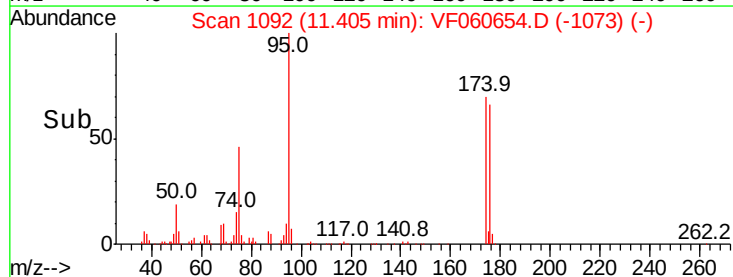
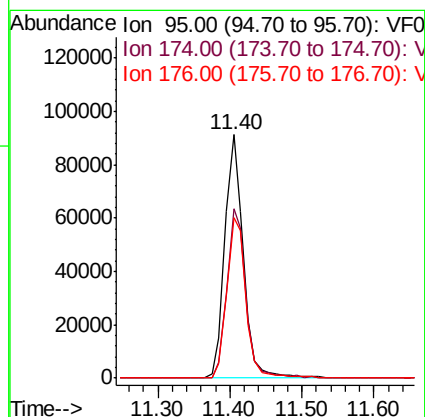
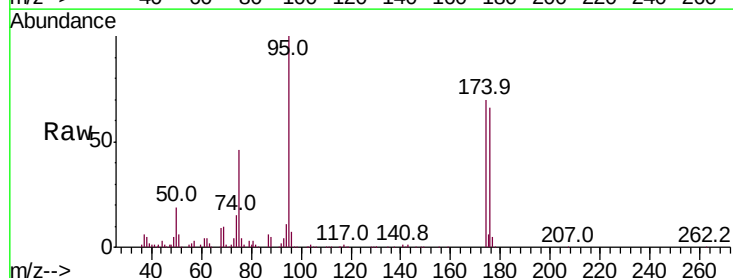
Instrument :
MSVOA_F
ClientSampled :

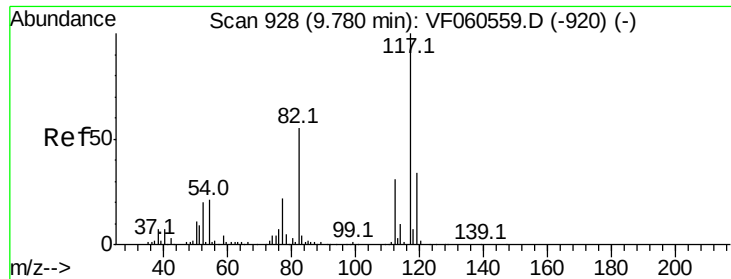
Tot Ion: 43 Resp: 5457
Ion Ratio Lower Upper
43 100
58 40.5 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 35.963 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

Tgt Ion: 95 Resp: 162431
Ion Ratio Lower Upper
95 100
174 69.7 0.0 149.0
176 66.1 0.0 145.6

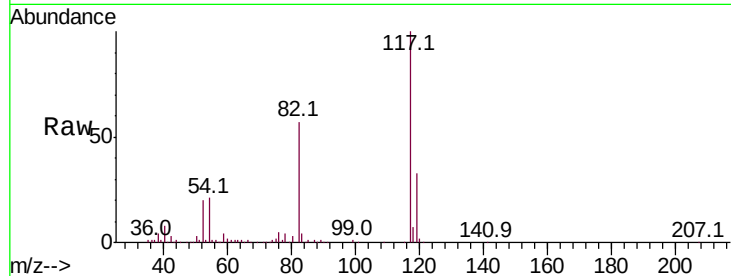




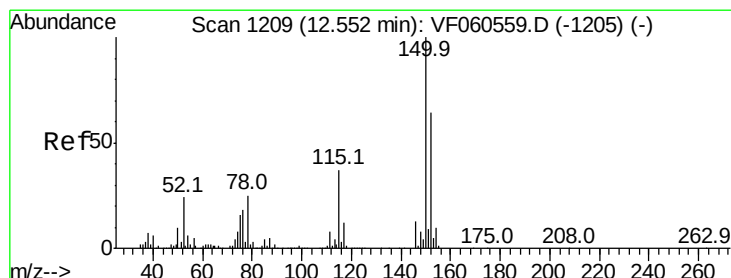
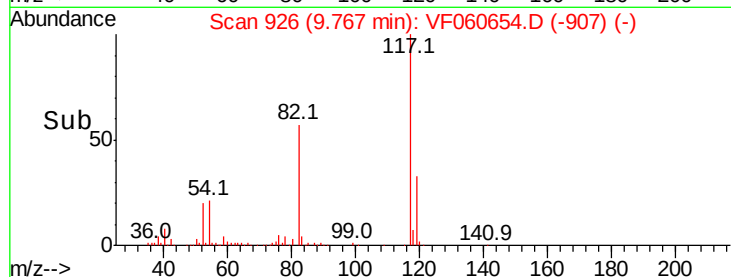
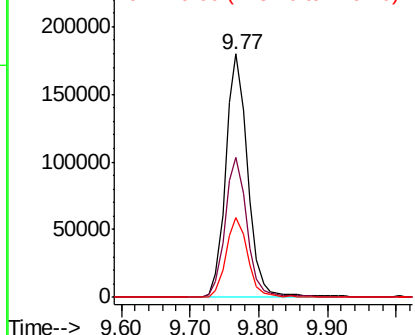
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 399492
Ion Ratio Lower Upper
117 100
82 57.3 43.9 65.9
119 32.8 27.4 41.0

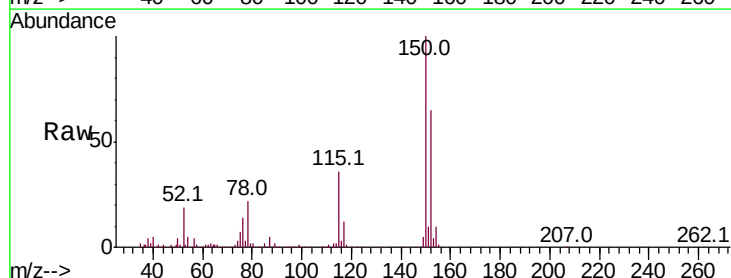


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

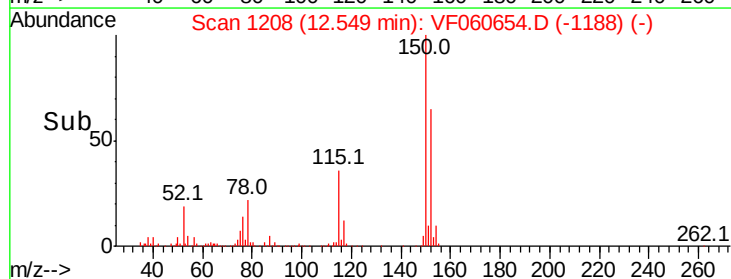
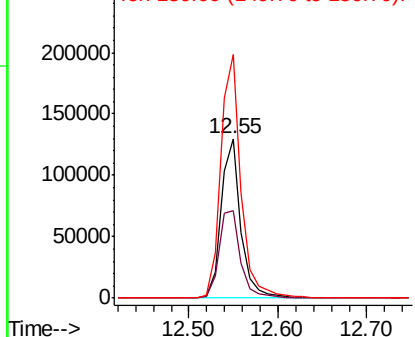


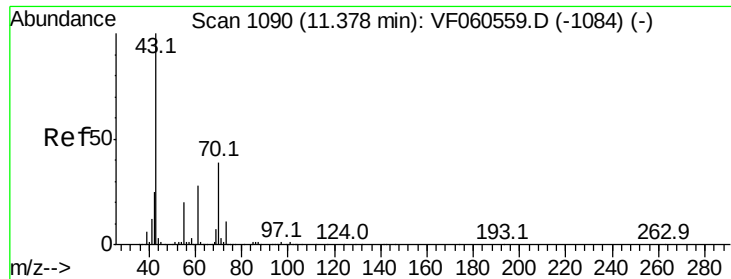
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF060654.D
Acq: 8 Nov 2018 17:20

Tgt Ion:152 Resp: 202798
Ion Ratio Lower Upper
152 100
115 54.7 29.6 88.8
150 152.8 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: 11.37 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: VF060654.D
 Acq: 8 Nov 2018 17:20

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 1737
 Ion Ratio Lower Upper
 43 100
 70 39.5 30.9 46.3
 55 31.6 16.6 24.8#
 61 21.7 22.0 33.0#

