

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082818\
 Data File : VF060145.D
 Acq On : 28 Aug 2018 12:56
 Operator : VA/AP
 Sample : VF0828SBL01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBL01

Quant Time: Aug 28 14:54:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	161302	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	226107	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	259005	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	167304	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	107509	48.70	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	97.40%	
35) Dibromofluoromethane	4.29	113	108841	61.30	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	122.60%	
50) Toluene-d8	7.71	98	271366	53.82	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	107.64%	
62) 4-Bromofluorobenzene	11.51	95	145665	54.61	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.22%	

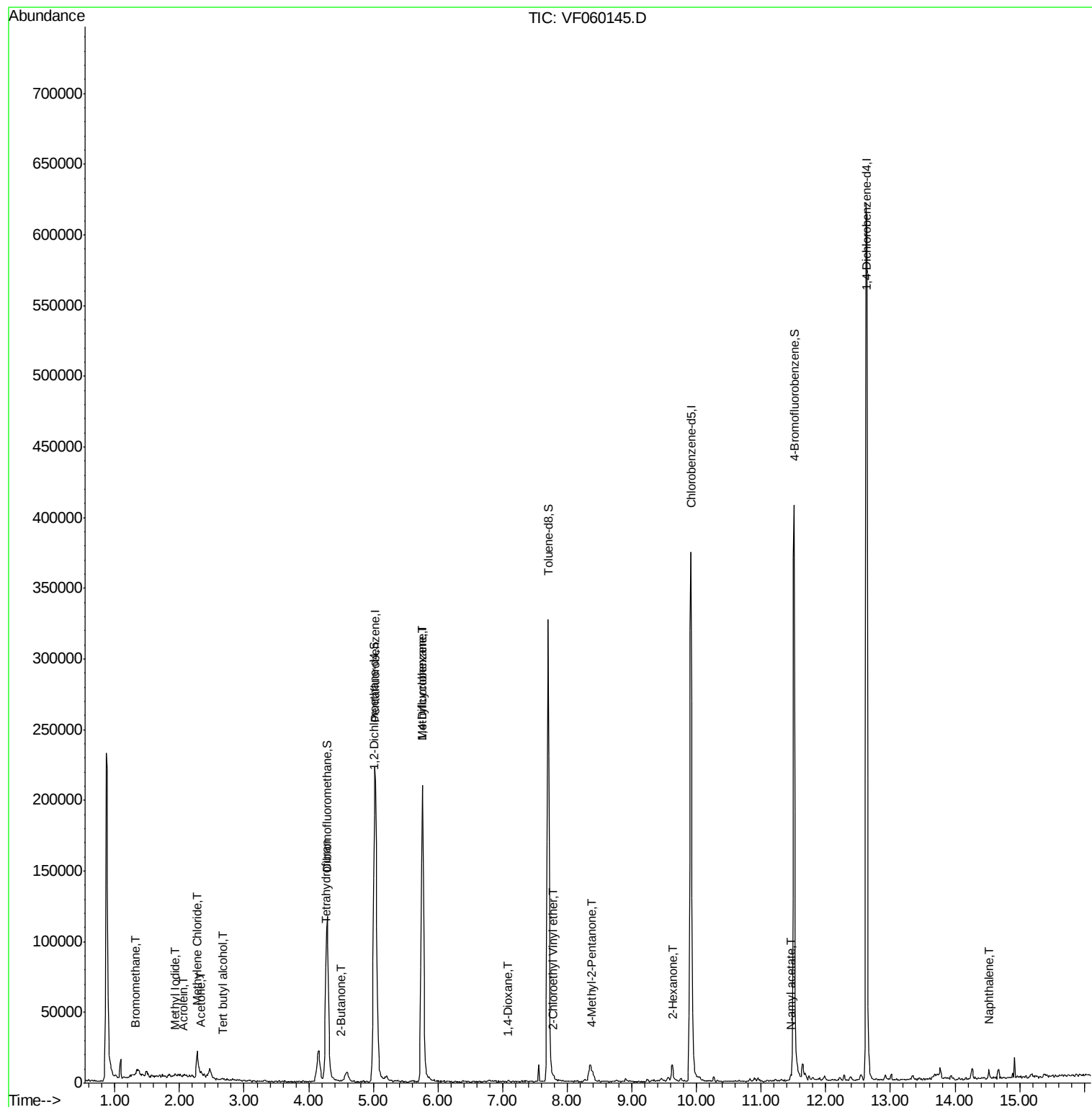
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.07	50	1518	Below Cal	#	64
5) Bromomethane	1.32	94	2503	2.498	ug/l #	61
10) Methyl Iodide	1.93	142	1847	1.004	ug/l #	85
11) Tert butyl alcohol	2.67	59	499	4.249	ug/l #	80
13) Acrolein	2.06	56	170	28.443	ug/l	100
16) Acetone	2.33	43	1684	2.902	ug/l #	63
18) Methyl Acetate	2.47	43	3101	Below Cal	#	60
20) Methylene Chloride	2.27	84	7874	1.966	ug/l #	80
25) 2-Butanone	4.50	43	951	1.262	ug/l #	58
29) Tetrahydrofuran	4.26	42	923	3.244	ug/l #	55
39) Methylcyclohexane	5.75	83	2897	1.454	ug/l #	39
49) 1,4-Dioxane	7.09	88	93	9.154	ug/l #	49
51) 4-Methyl-2-Pentanone	8.40	43	5533	4.006	ug/l	99
52) Toluene	7.77	92	996	Below Cal	#	45
58) 2-Chloroethyl Vinyl ether	7.78	63	256	2.127	ug/l	100
59) 2-Hexanone	9.63	43	11201	10.020	ug/l	98
68) m/p-Xylenes	10.27	106	1061	Below Cal		74
74) N-amyl acetate	11.46	43	3409	1.089	ug/l #	89
95) Naphthalene	14.53	128	3972	2.895	ug/l #	94

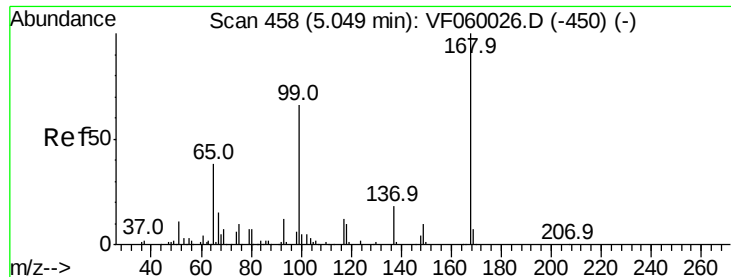
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 28 Aug 2018 12:56
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

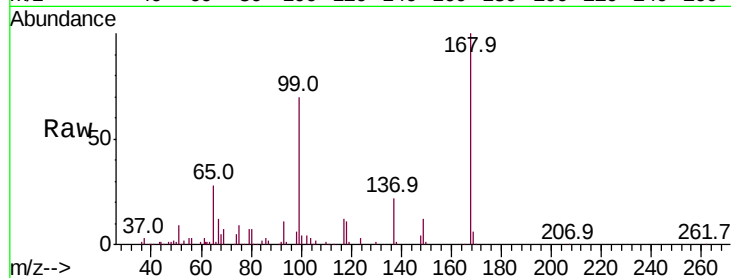
VF0828SBL01

Tot Ion:168 Resp: 161302

Ion Ratio Lower Upper

168 100

99 70.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

60000

50000

40000

30000

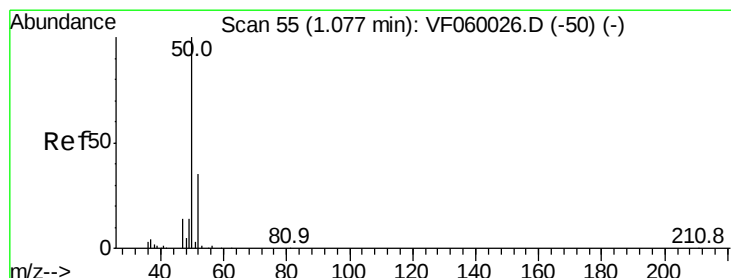
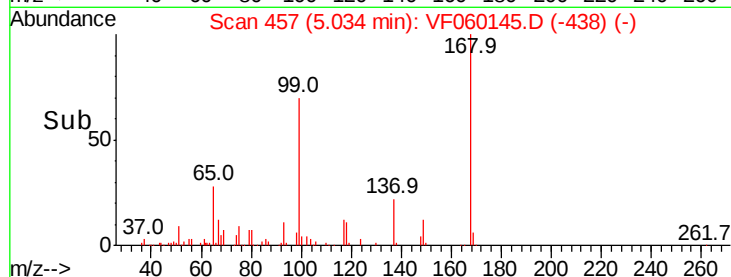
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.07 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF060145.D

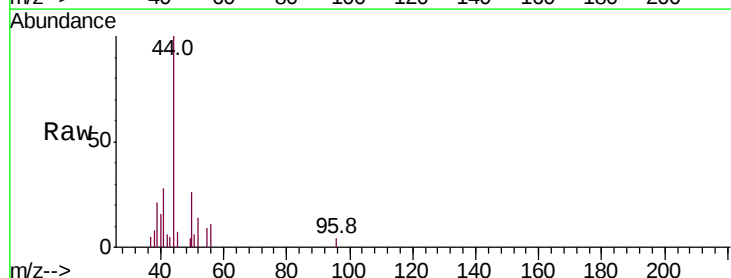
Acq: 28 Aug 2018 12:56

Tgt Ion: 50 Resp: 1518

Ion Ratio Lower Upper

50 100

52 55.0 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.07

800

600

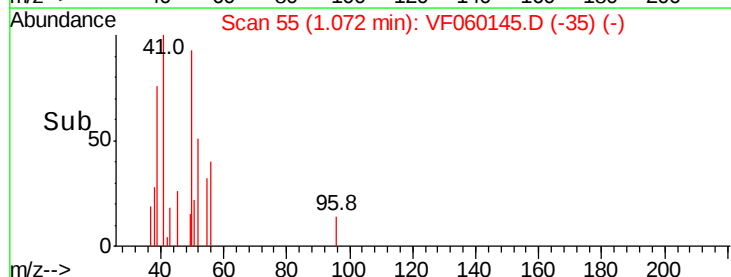
400

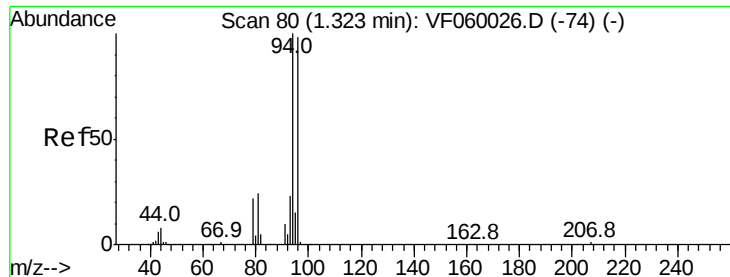
200

0

Time-->

1.05 1.10





#5

Bromomethane

Concen: 2.498 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

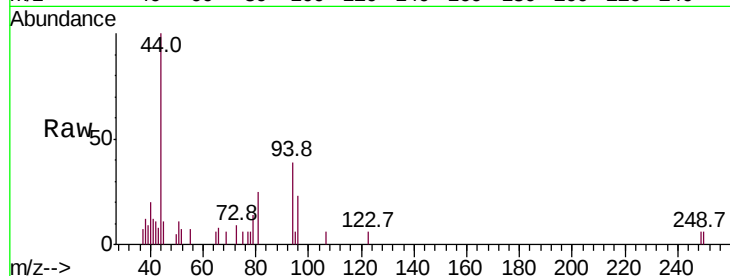
VF0828SBL01

Tot Ion: 94 Resp: 2503

Ion Ratio Lower Upper

94 100

96 59.8 78.6 118.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.32

800

600

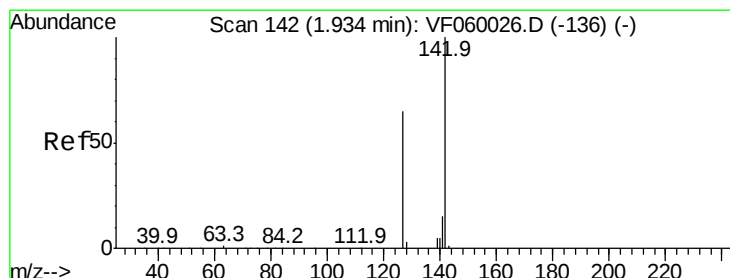
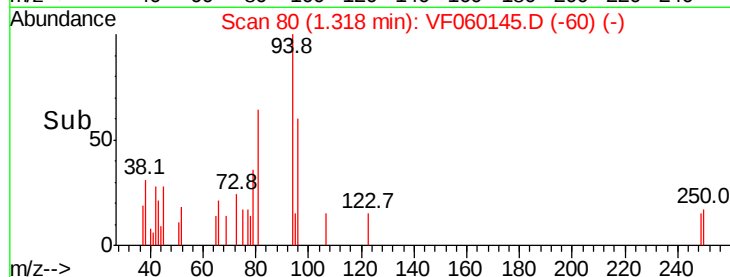
400

200

0

1.20 1.30 1.40

Time-->



#10

Methyl Iodide

Concen: 1.004 ug/l

RT: 1.93 min Scan# 142

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

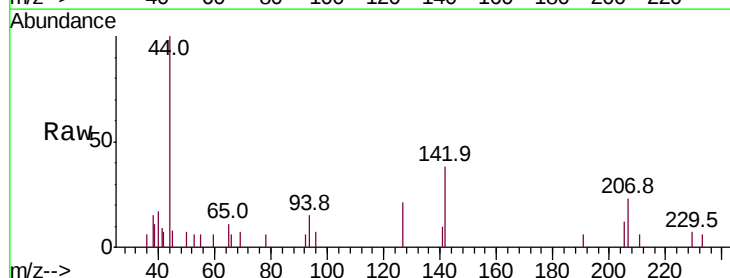
Tgt Ion: 142 Resp: 1847

Ion Ratio Lower Upper

142 100

127 54.7 51.8 77.6

141 25.5 11.9 17.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

1.93

800

600

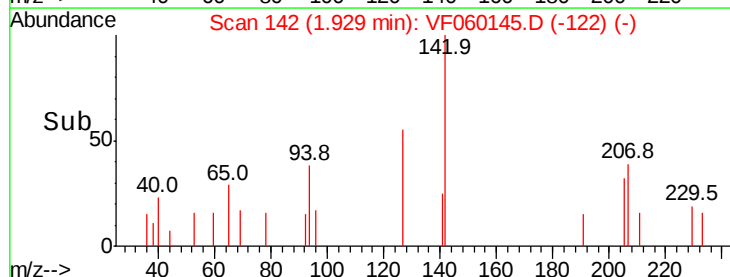
400

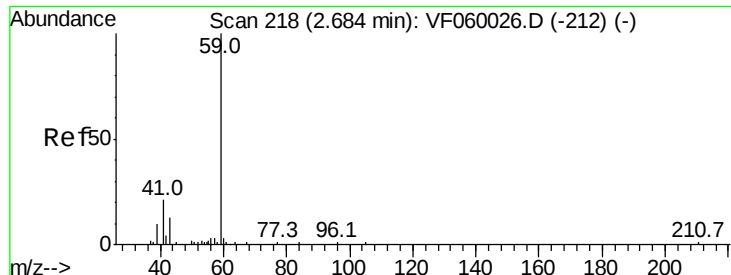
200

0

1.90 1.95 2.00

Time-->

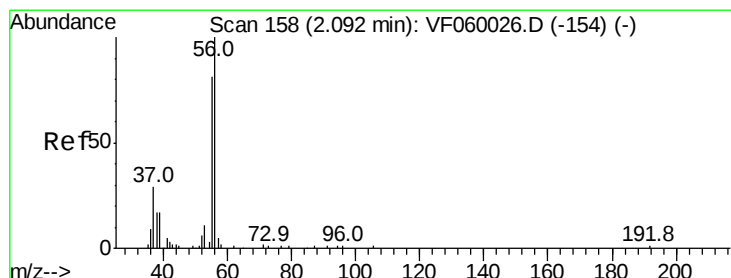
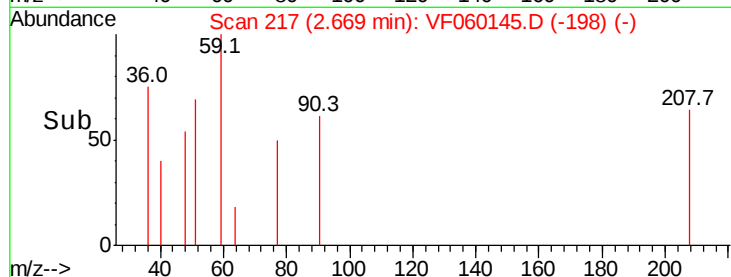
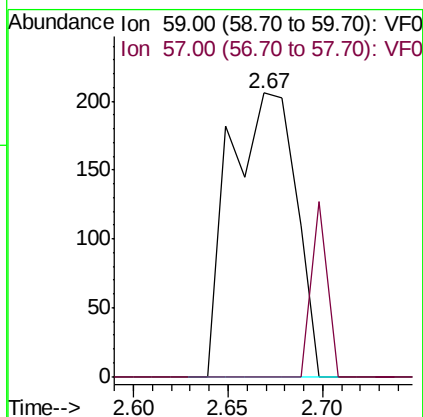
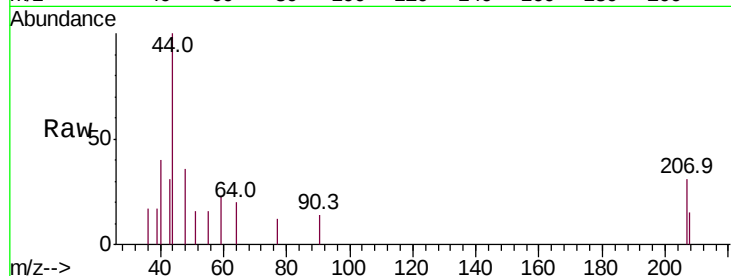




#11
Tert butyl alcohol
Concen: 4.249 ug/l
RT: 2.67 min Scan# 217
Delta R.T. -0.01 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

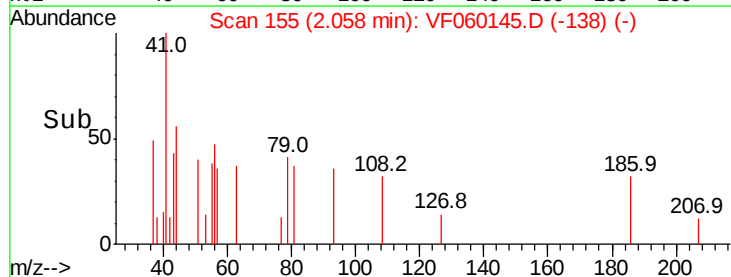
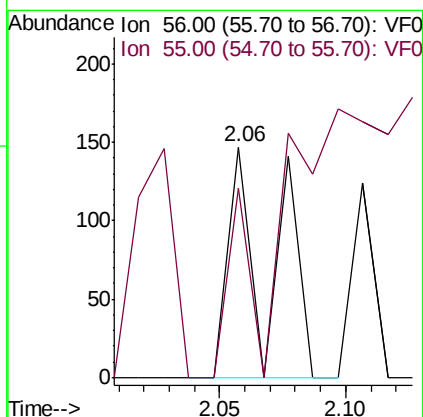
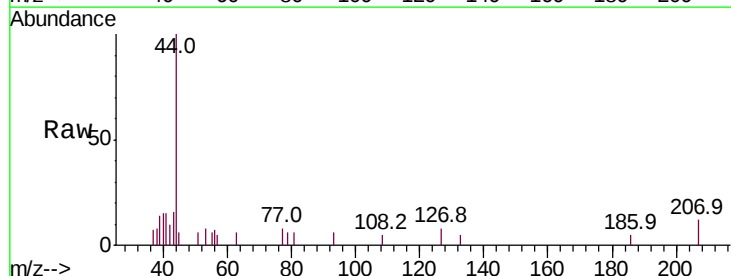
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBL01

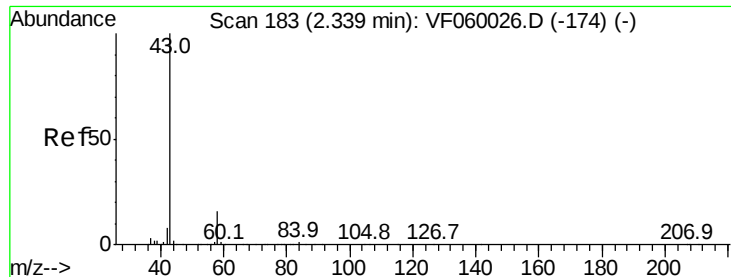
Tot Ion: 59 Resp: 499
Ion Ratio Lower Upper
59 100
57 0.0 5.4 8.2#



#13
Acrolein
Concen: 28.443 ug/l
RT: 2.06 min Scan# 155
Delta R.T. -0.03 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Tgt Ion: 56 Resp: 170
Ion Ratio Lower Upper
56 100
55 82.3 65.6 98.4





#16

Acetone

Concen: 2.902 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

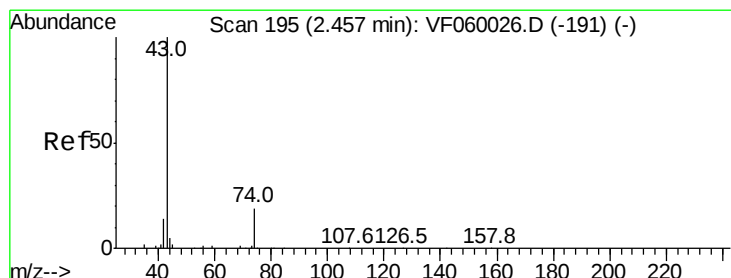
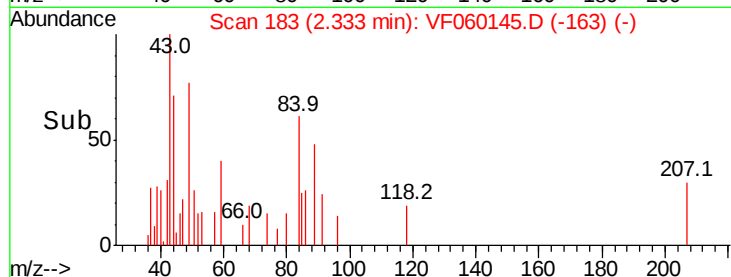
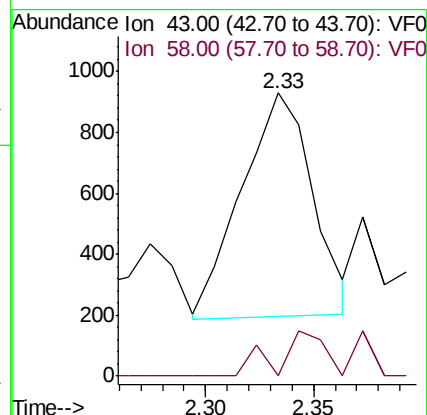
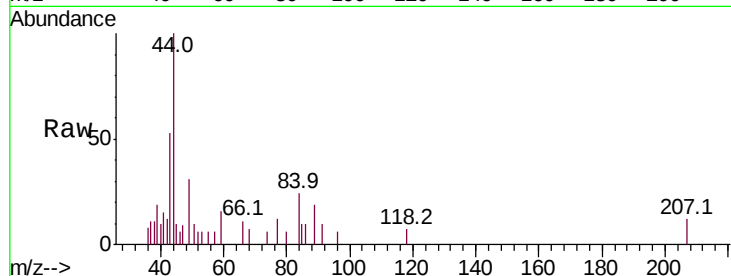
VF0828SBL01

Tot Ion: 43 Resp: 1684

Ion Ratio Lower Upper

43 100

58 0.0 12.6 19.0#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.47 min Scan# 197

Delta R.T. 0.02 min

Lab File: VF060145.D

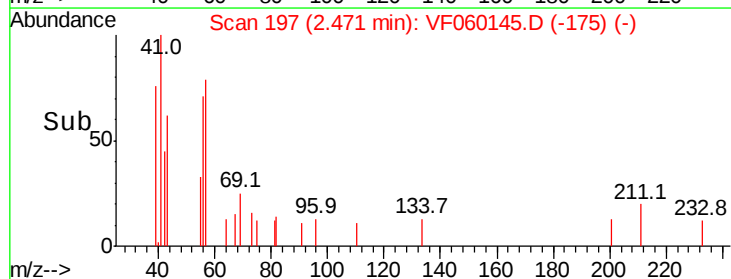
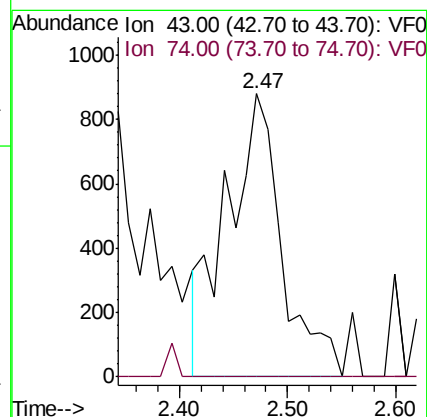
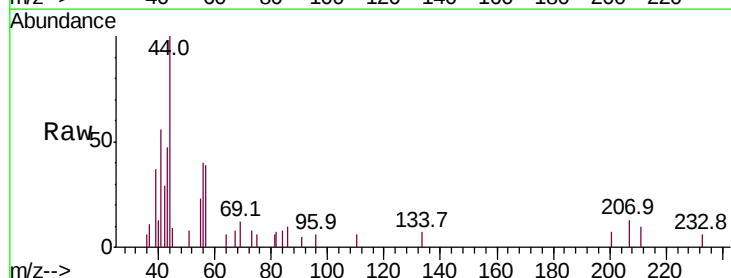
Acq: 28 Aug 2018 12:56

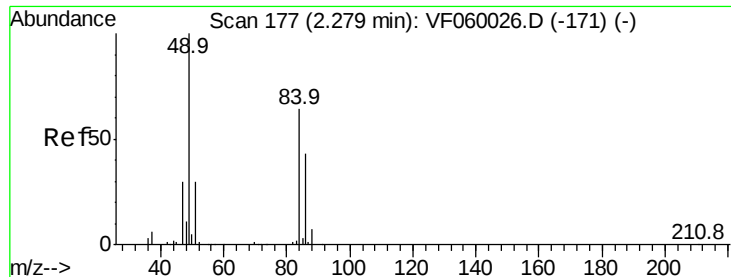
Tgt Ion: 43 Resp: 3101

Ion Ratio Lower Upper

43 100

74 0.0 13.8 20.6#

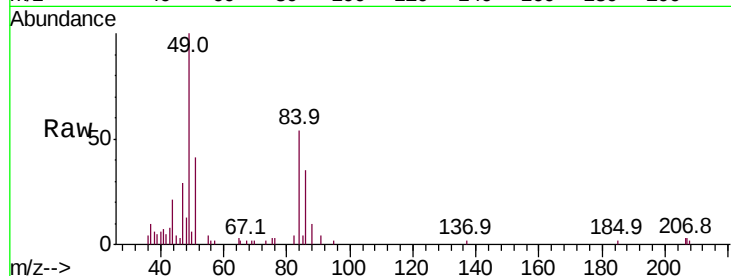




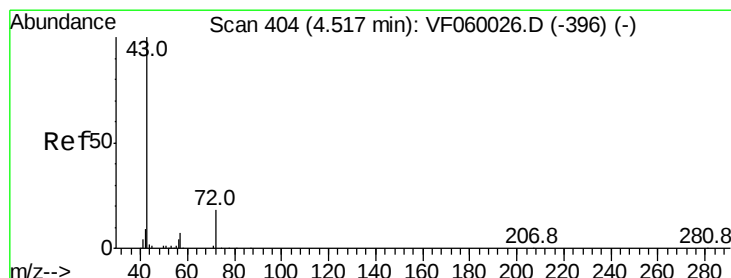
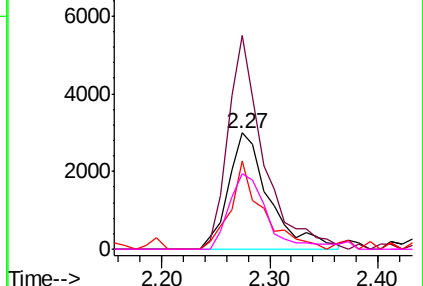
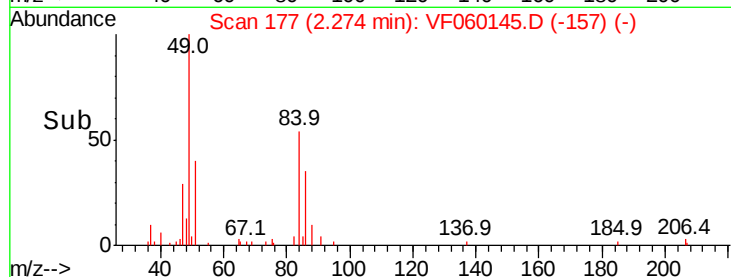
#20
Methvlene Chloride
Concen: 1.966 ug/l
RT: 2.27 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0828SBL01

Tot Ion: 84 Resp: 7874
Ion Ratio Lower Upper
84 100
49 184.1 125.4 188.0
51 76.3 38.3 57.5#
86 64.8 53.3 79.9

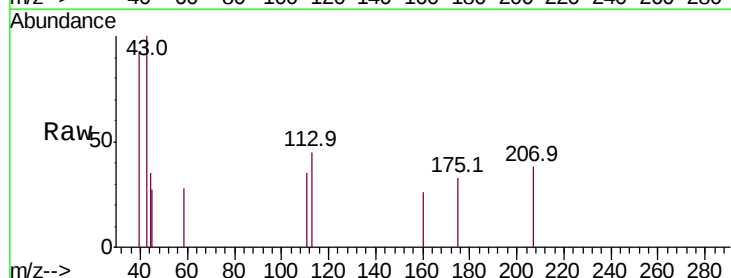


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

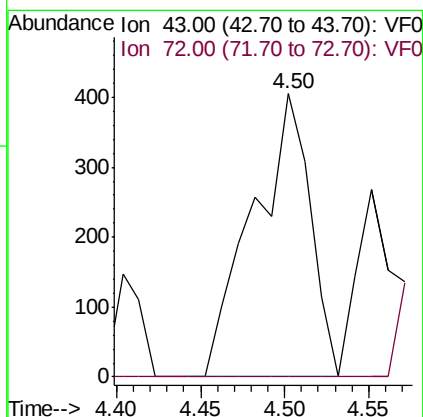
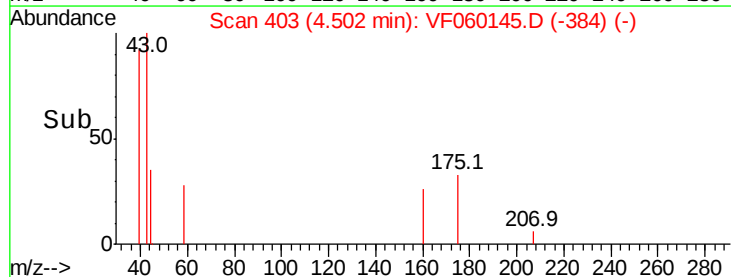


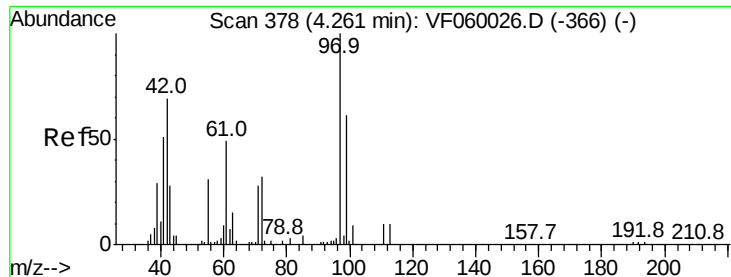
#25
2-Butanone
Concen: 1.262 ug/l
RT: 4.50 min Scan# 403
Delta R.T. -0.01 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Tgt Ion: 43 Resp: 951
Ion Ratio Lower Upper
43 100
72 0.0 15.0 22.6#



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





#29

Tetrahydrofuran

Concen: 3.244 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBL01

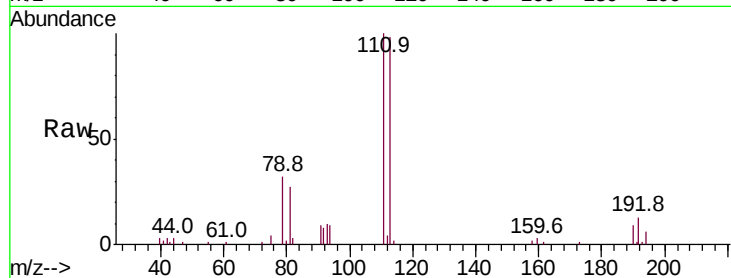
Tot Ion: 42 Resp: 923

Ion Ratio Lower Upper

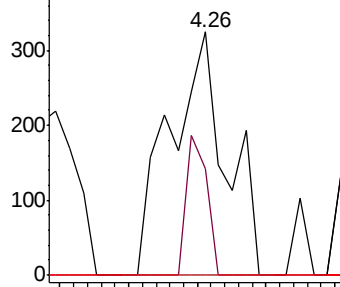
42 100

72 21.1 31.4 47.2#

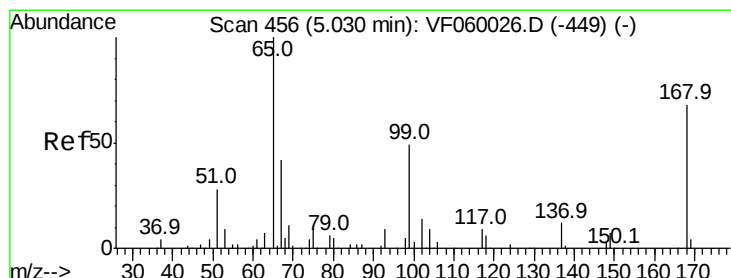
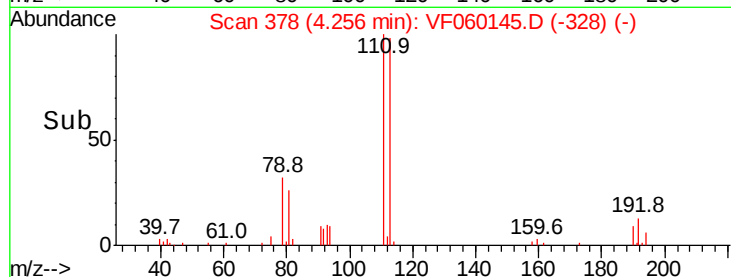
71 0.0 29.7 44.5#



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



Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.699 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF060145.D

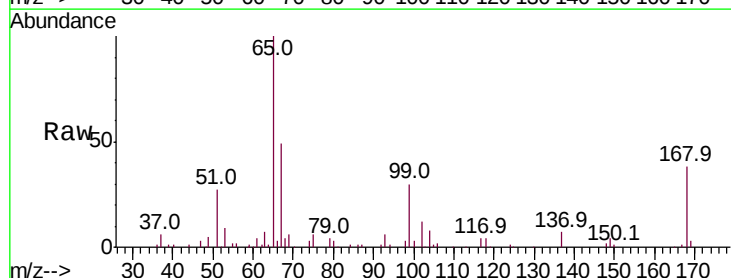
Acq: 28 Aug 2018 12:56

Tgt Ion: 65 Resp: 107509

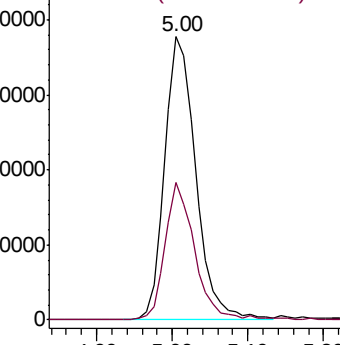
Ion Ratio Lower Upper

65 100

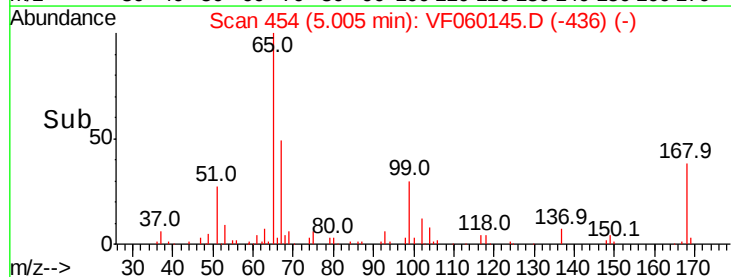
67 48.7 0.0 92.0

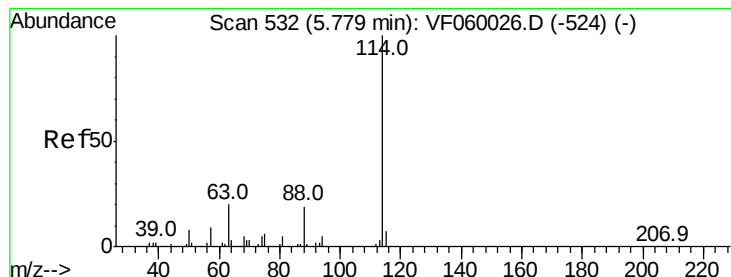


Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.02 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBL01

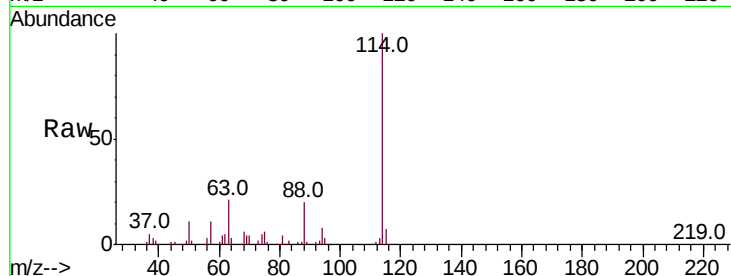
Tot Ion:114 Resp: 226107

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.4

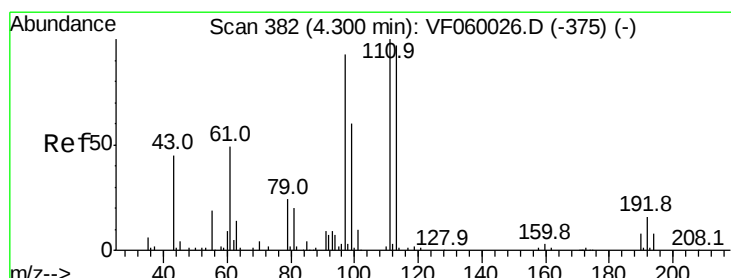
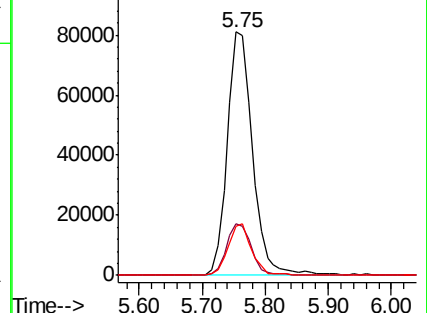
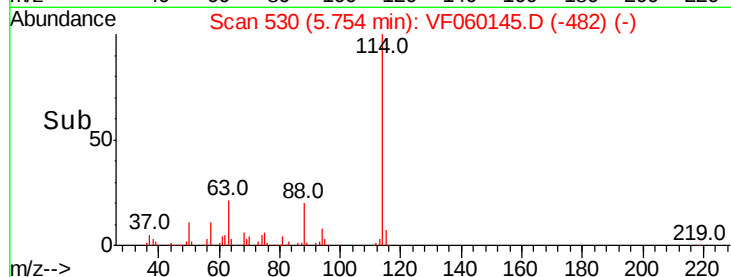
88 19.9 0.0 38.6



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: 61.301 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

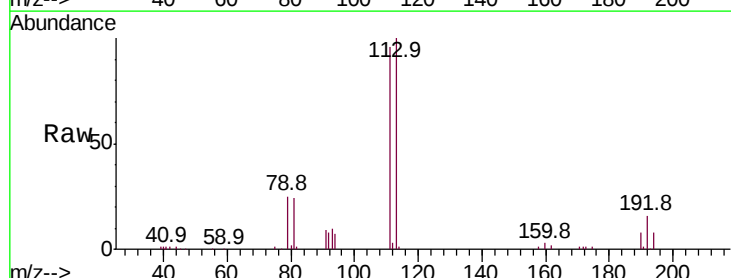
Tgt Ion:113 Resp: 108841

Ion Ratio Lower Upper

113 100

111 95.5 82.7 124.1

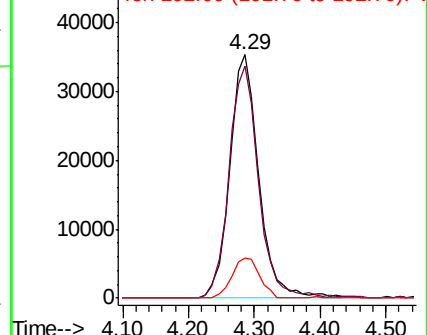
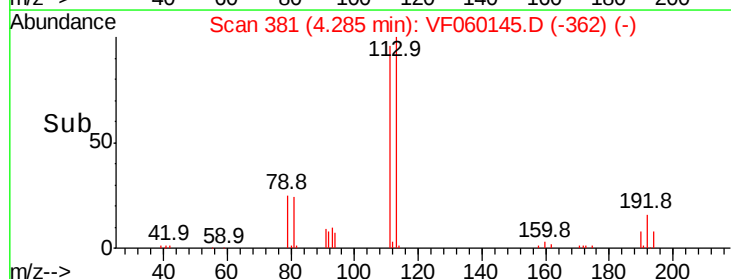
192 16.2 13.0 19.4

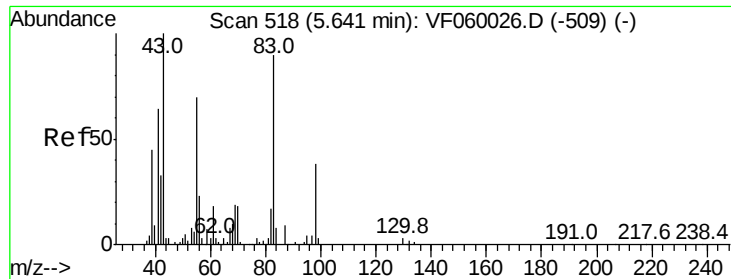


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

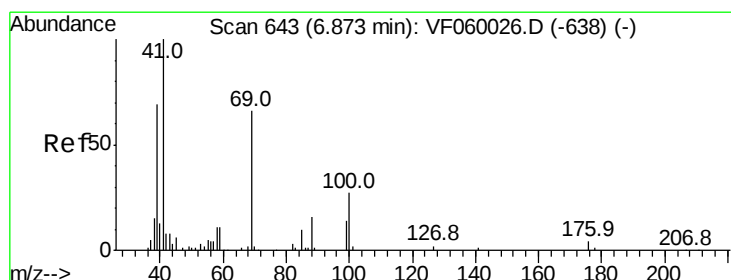
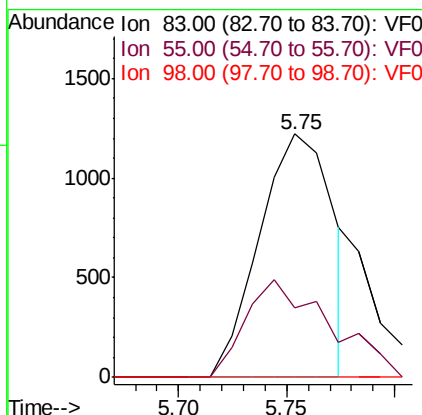
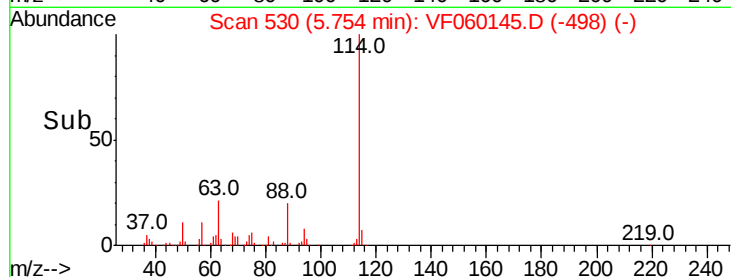
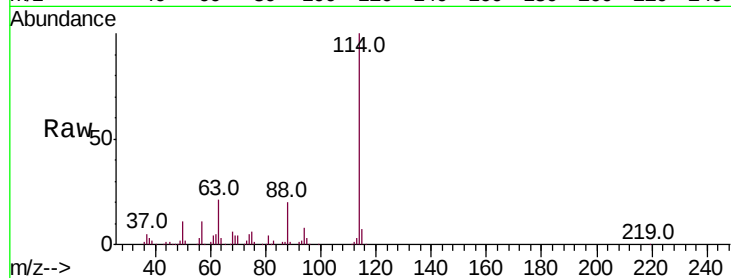




#39
Methylcyclohexane
Concen: 1.454 ug/l
RT: 5.75 min Scan# 530
Delta R.T. 0.11 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

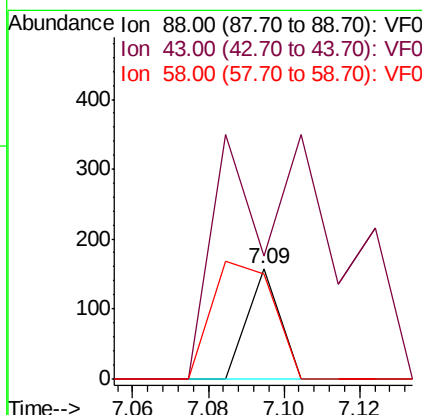
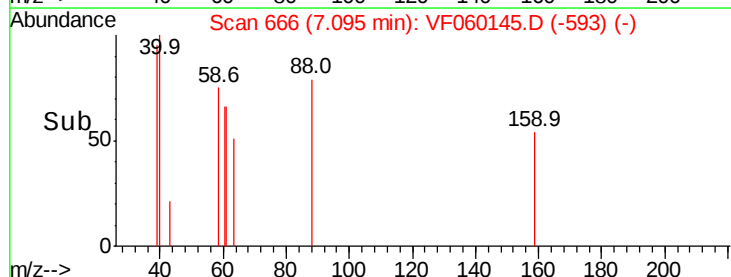
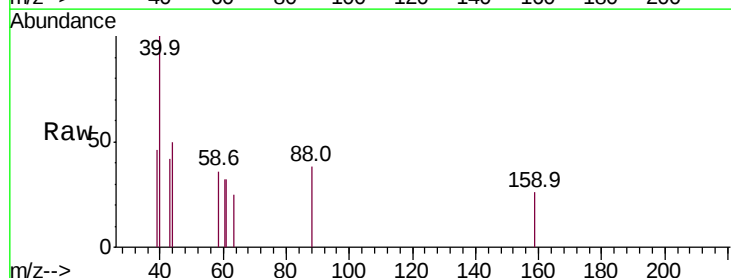
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBL01

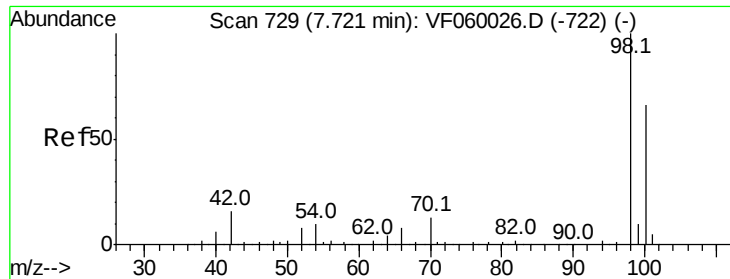
Tot Ion: 83 Resp: 2897
Ion Ratio Lower Upper
83 100
55 28.5 62.7 94.1#
98 0.0 33.8 50.8#



#49
1,4-Dioxane
Concen: 9.154 ug/l
RT: 7.09 min Scan# 666
Delta R.T. 0.22 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 111.5 46.5 69.7#
58 94.9 54.8 82.2#





#50

Toluene-d8

Concen: 53.816 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

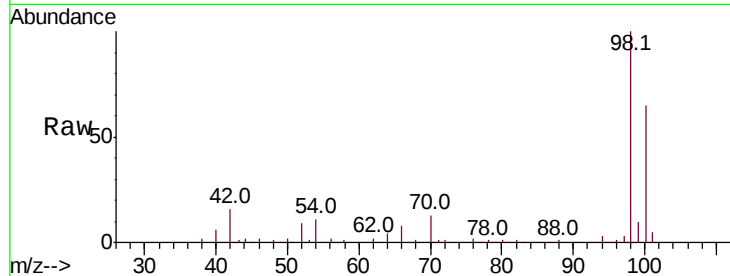
VF0828SBL01

Tot Ion: 98 Resp: 271366

Ion Ratio Lower Upper

98 100

100 65.1 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.71

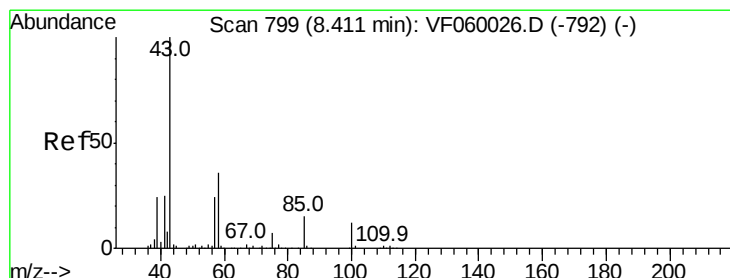
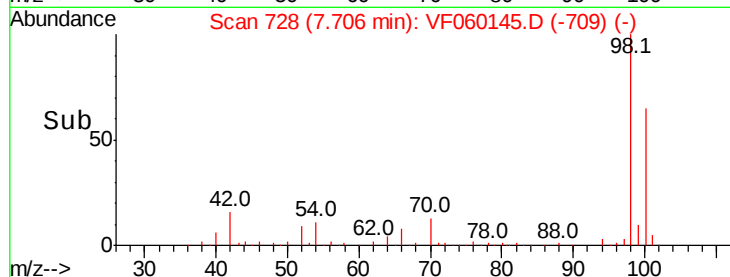
100000

50000

0

Time-->

7.60 7.70 7.80 7.90



#51

4-Methyl-2-Pentanone

Concen: 4.006 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF060145.D

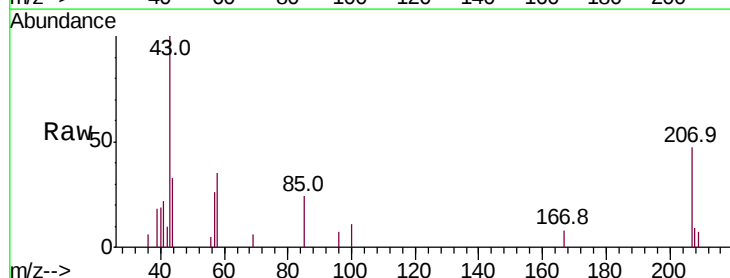
Acq: 28 Aug 2018 12:56

Tgt Ion: 43 Resp: 5533

Ion Ratio Lower Upper

43 100

58 34.9 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

2000

1500

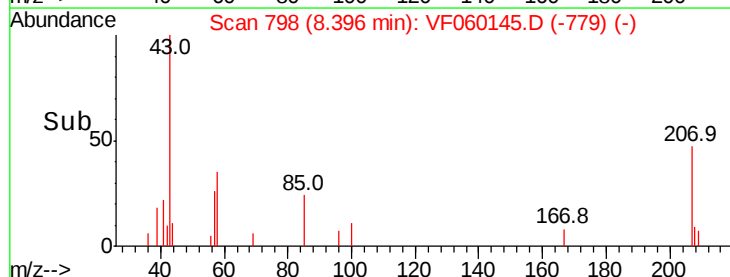
1000

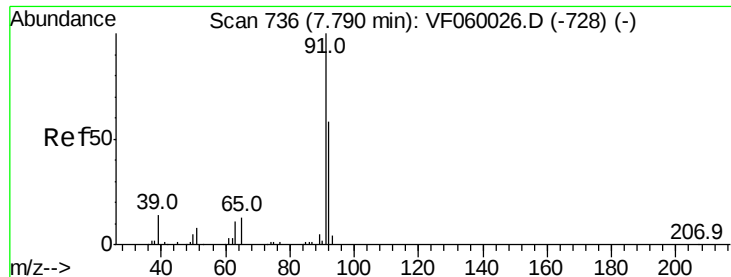
500

0

Time-->

8.30 8.40 8.50





#52

Toluene

Concen: Below Cal

RT: 7.77 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

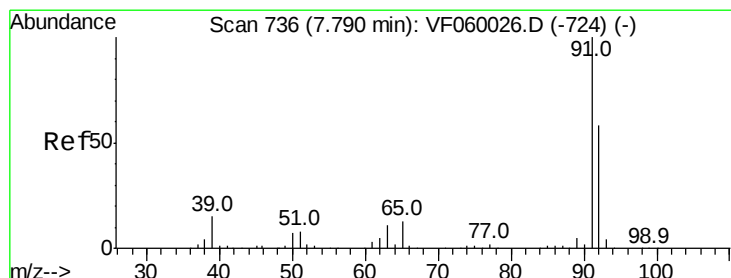
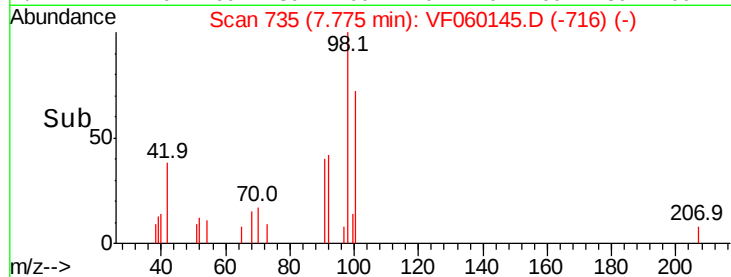
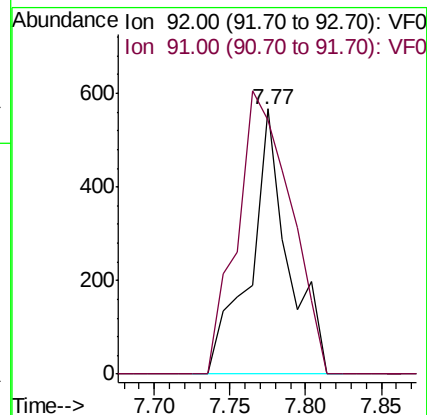
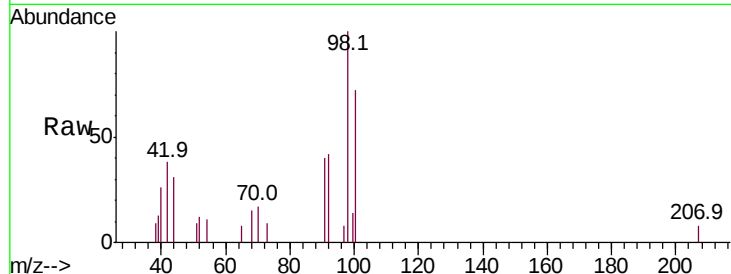
VF0828SBL01

Tot Ion: 92 Resp: 996

Ion Ratio Lower Upper

92 100

91 95.8 137.7 206.5#



#58

2-Chloroethyl Vinyl ether

Concen: 2.127 ug/l

RT: 7.78 min Scan# 736

Delta R.T. -0.01 min

Lab File: VF060145.D

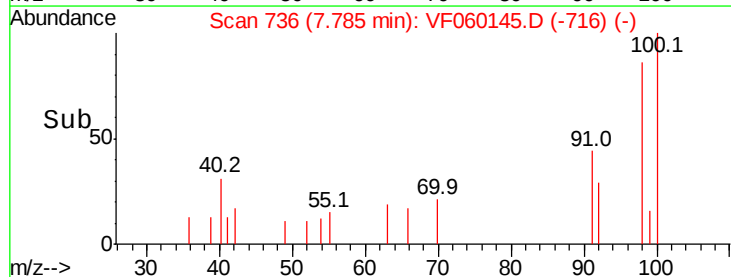
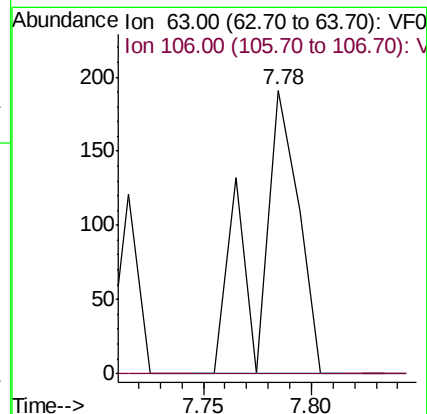
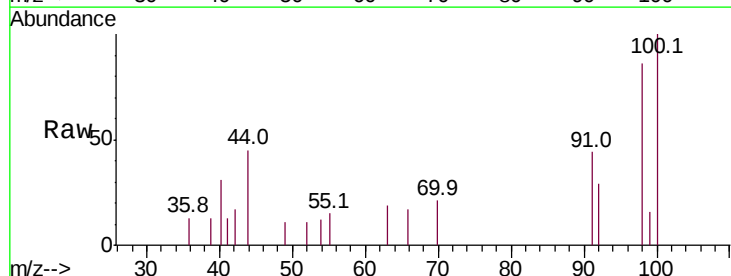
Acq: 28 Aug 2018 12:56

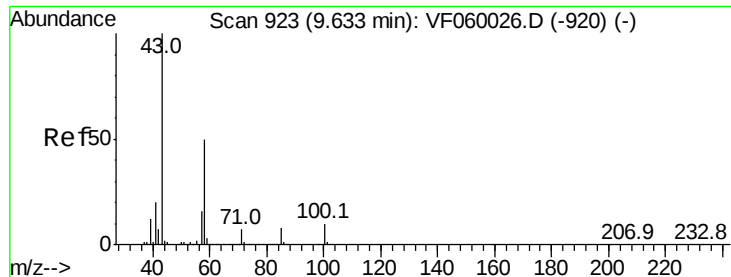
Tgt Ion: 63 Resp: 256

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

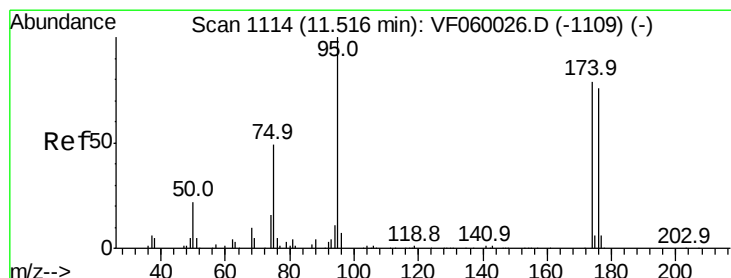
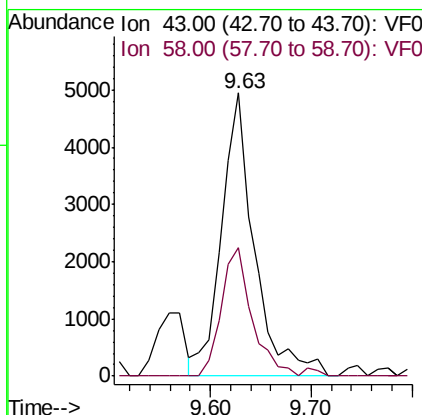
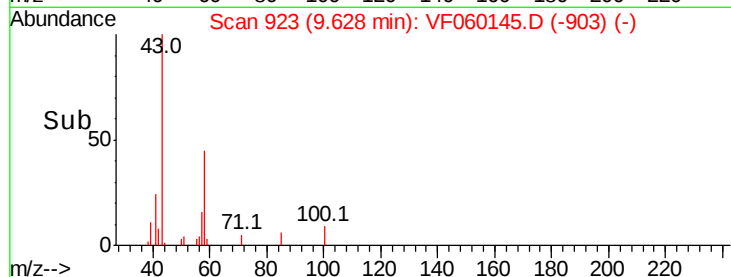
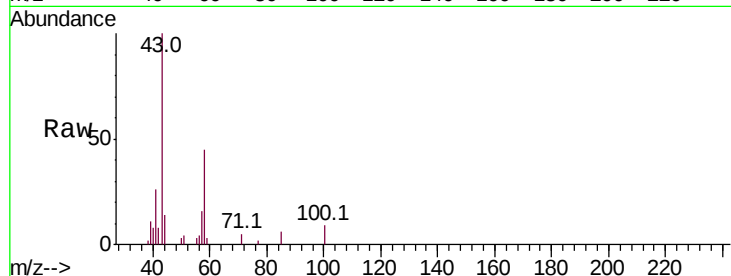




#59
2-Hexanone
Concen: 10.020 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

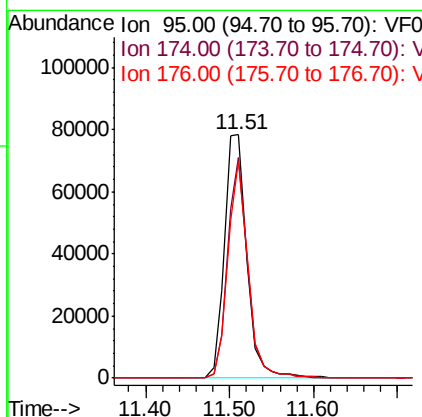
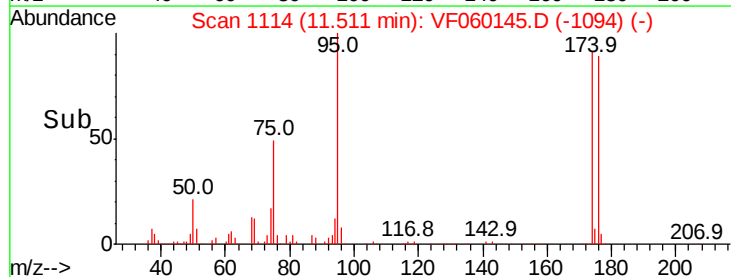
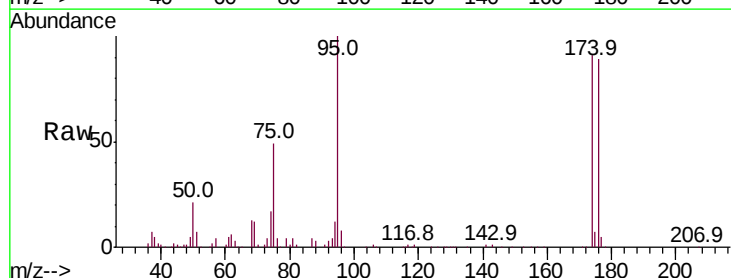
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBL01

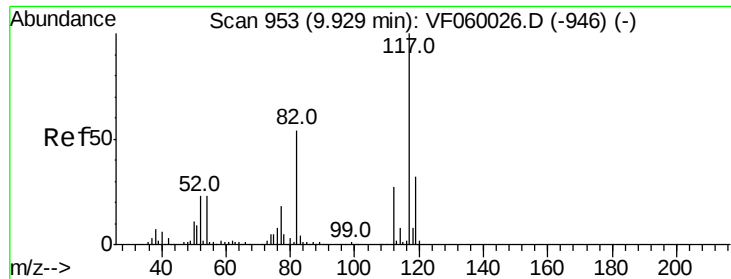
Tot Ion: 43 Resp: 11201
Ion Ratio Lower Upper
43 100
58 45.3 23.4 70.2



#62
4-Bromofluorobenzene
Concen: 54.608 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Tgt Ion: 95 Resp: 145665
Ion Ratio Lower Upper
95 100
174 90.8 0.0 158.4
176 89.1 0.0 153.0

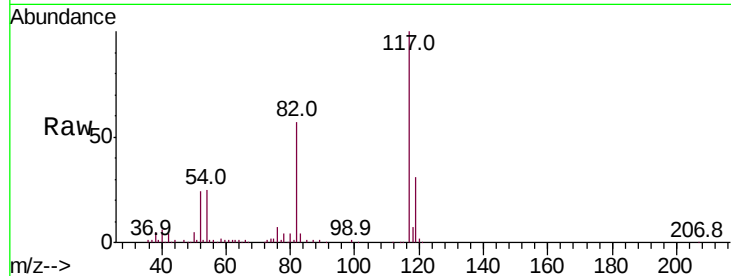




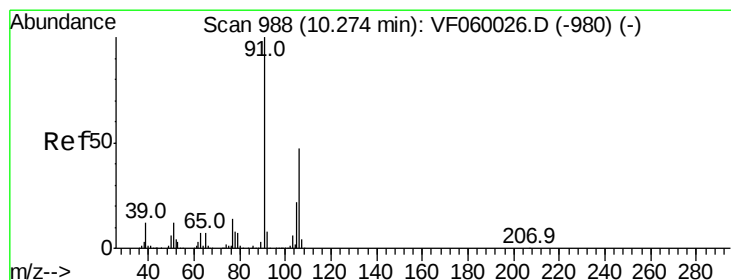
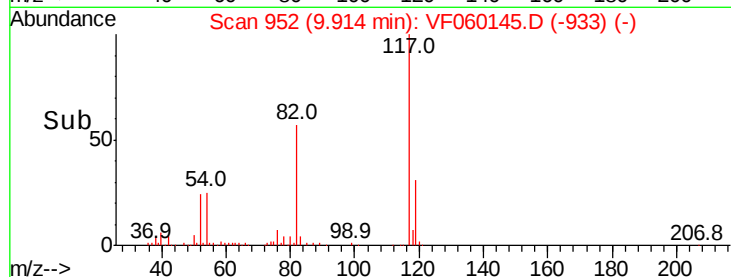
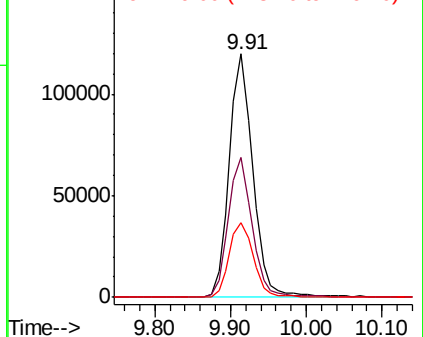
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0828SBL01

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	43.6	65.4
119	30.5	25.6	38.4

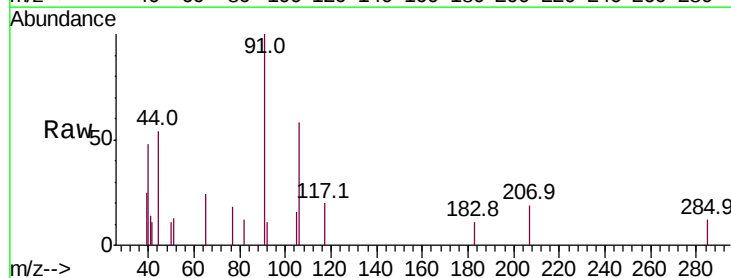


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

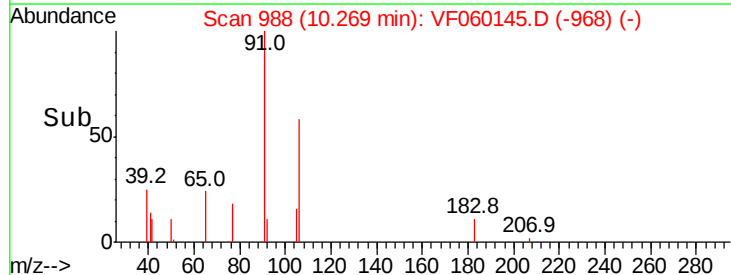
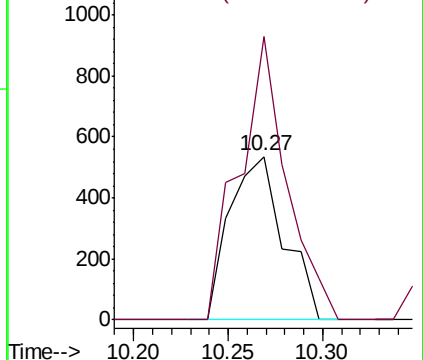


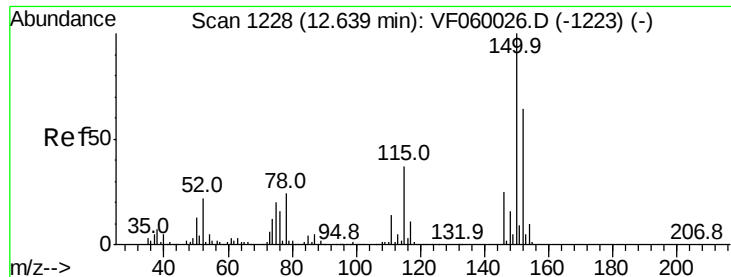
#68
m/p-Xylenes
Concen: Below Cal
RT: 10.27 min Scan# 988
Delta R.T. -0.00 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Tgt Ion	Ratio	Lower	Upper
106	100		
91	173.5	171.8	257.8



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0



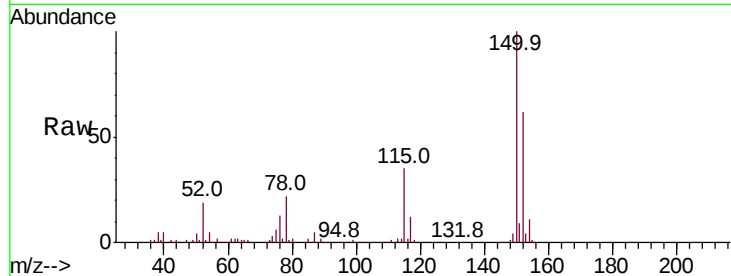


#72

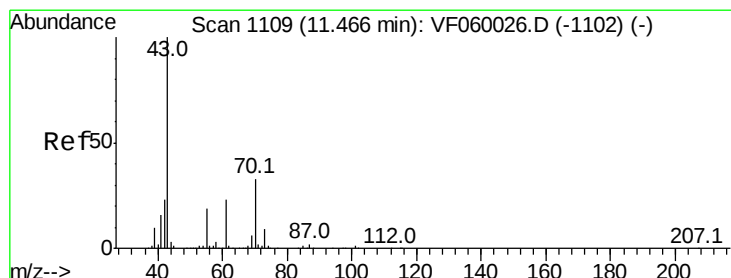
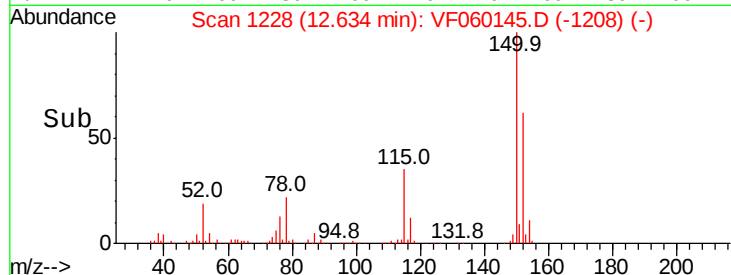
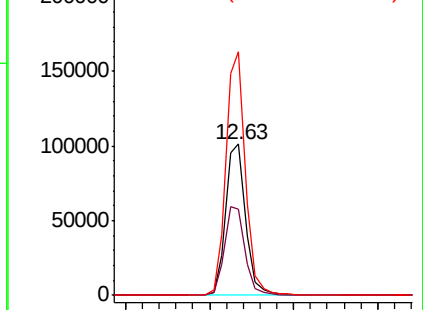
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.01 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0828SBL01

Tot Ion:152 Resp: 167304
Ion Ratio Lower Upper
152 100
115 56.7 28.6 85.9
150 160.9 0.0 312.0



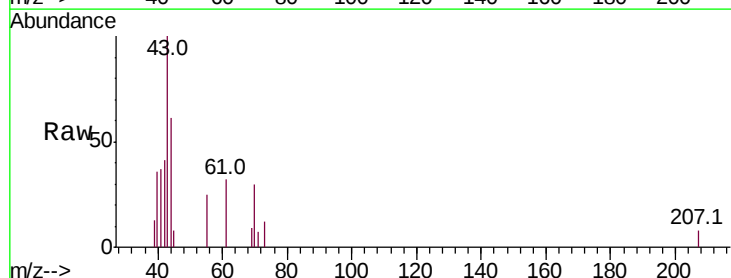
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



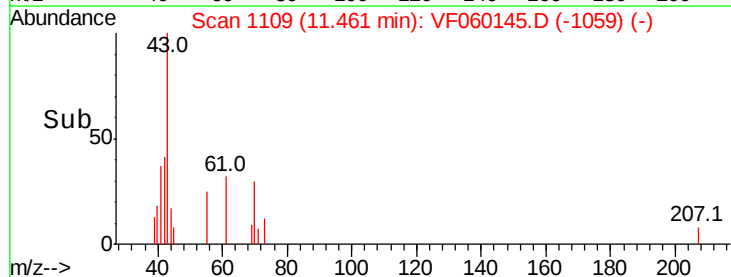
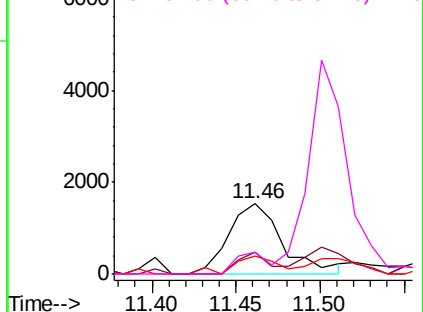
#74

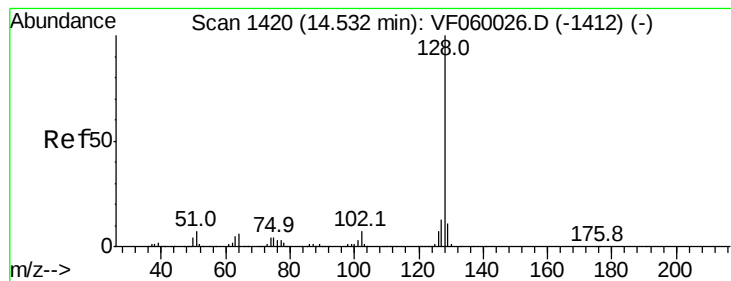
N-ethyl acetate
Concen: 1.089 ug/l
RT: 11.46 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VF060145.D
Acq: 28 Aug 2018 12:56

Tgt Ion: 43 Resp: 3409
Ion Ratio Lower Upper
43 100
70 30.4 26.4 39.6
55 25.0 15.0 22.4#
61 31.9 18.4 27.6#



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





#95

Naphthalene

Concen: 2.895 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VF060145.D

Acq: 28 Aug 2018 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBL01

Tot Ion:128 Resp: 3972

Ion Ratio Lower Upper

128 100

127 15.9 10.4 15.6#

129 8.8 8.5 12.7

