

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082818\
 Data File : VF060152.D
 Acq On : 28 Aug 2018 16:18
 Operator : VA/AP
 Sample : J4646-02RE
 Misc : 5.21g/5mL/MSVOA F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q4-A6RE

Quant Time: Aug 28 16:43:09 2018
 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	134884	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.75	114	178206	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.91	117	153550	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	83635	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	46130	24.99	ug/l	-0.04
Spiked Amount				50.000		
Recovery						49.98%
35) Dibromofluoromethane	4.26	113	55649	39.77	ug/l	-0.04
Spiked Amount				50.000		
Recovery						79.54%
50) Toluene-d8	7.70	98	167448	42.13	ug/l	-0.02
Spiked Amount				50.000		
Recovery						84.26%
62) 4-Bromofluorobenzene	11.51	95	67309	32.02	ug/l	0.00
Spiked Amount				50.000		
Recovery						64.04%

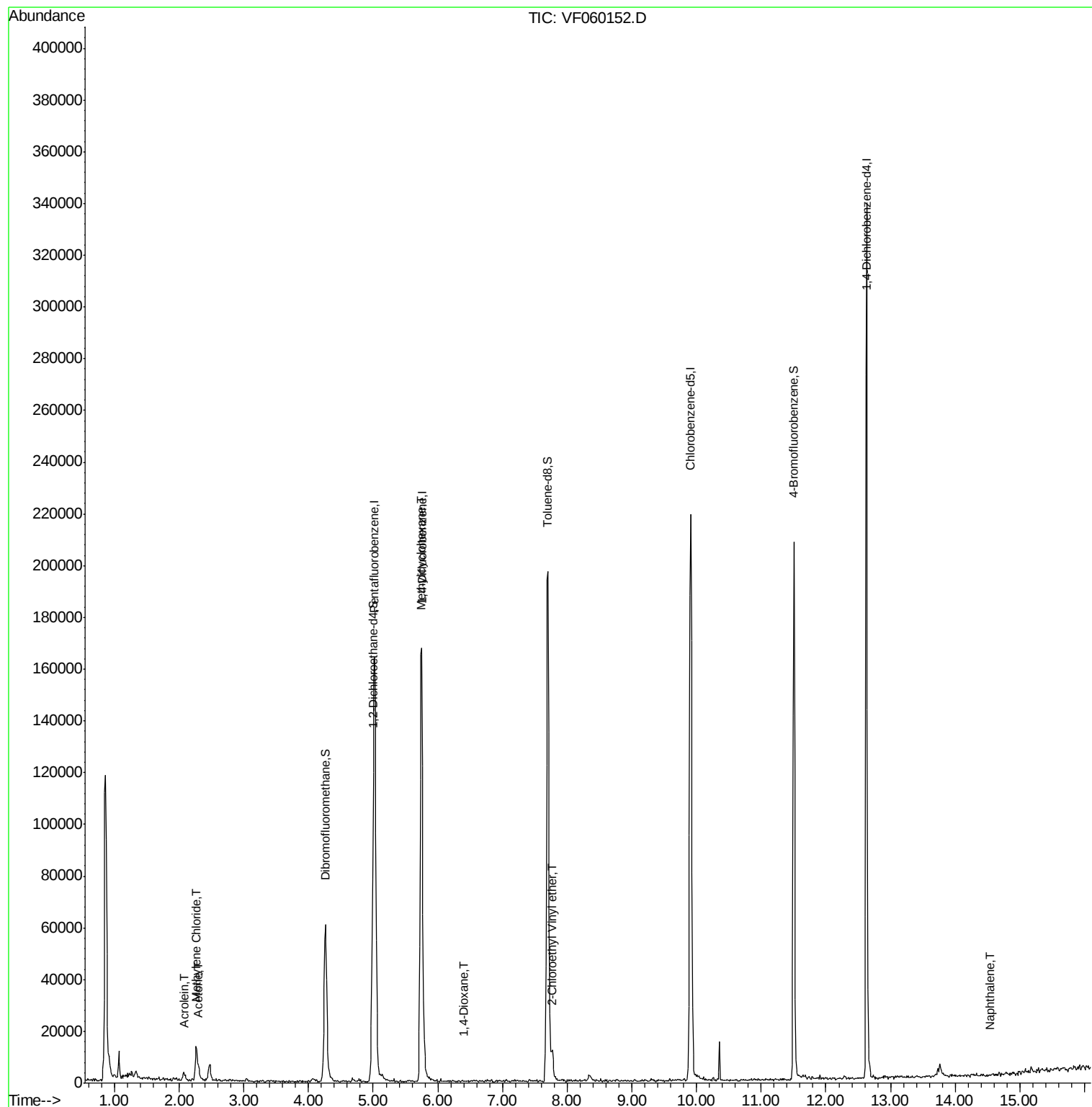
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.06	50	668	Below Cal	#	40
13) Acrolein	2.08	56	77	27.472	ug/l #	34
16) Acetone	2.30	43	4062	8.372	ug/l	94
18) Methyl Acetate	2.48	43	2544	Below Cal	#	60
20) Methylene Chloride	2.27	84	7119	2.590	ug/l #	74
39) Methylcyclohexane	5.73	83	2653	1.690	ug/l #	48
49) 1,4-Dioxane	6.40	88	74	9.241	ug/l #	18
52) Toluene	7.77	92	4919	Below Cal		92
58) 2-Chloroethyl Vinyl ether	7.77	63	1042	10.987	ug/l	100
68) m/p-Xylenes	10.25	106	379	Below Cal	#	61
95) Naphthalene	14.52	128	399	2.408	ug/l #	69

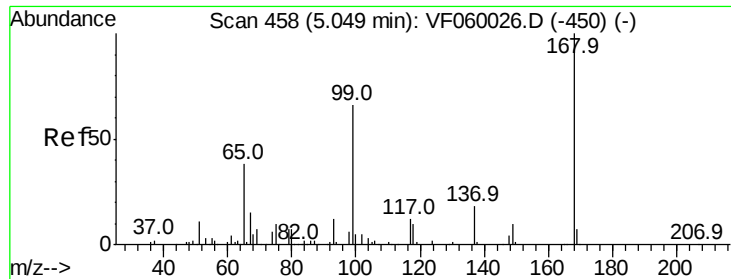
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.02 min Scan# 455

Delta R.T. -0.03 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

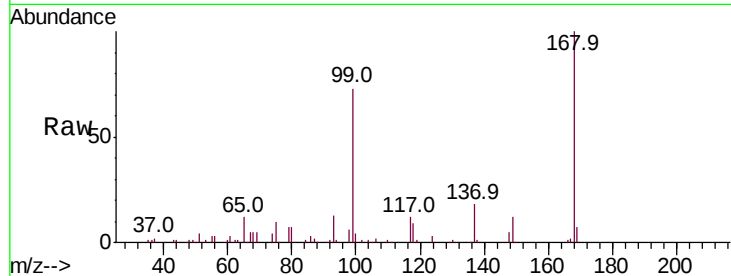
EP1-Q4-A6RE

Tot Ion:168 Resp: 134884

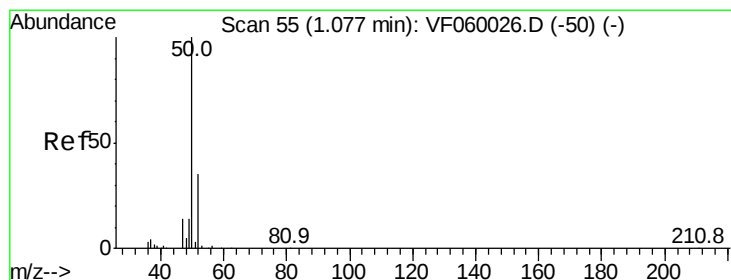
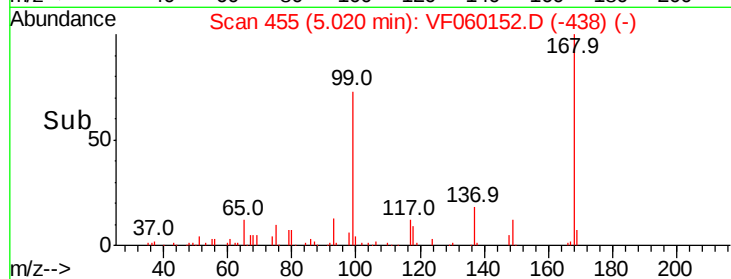
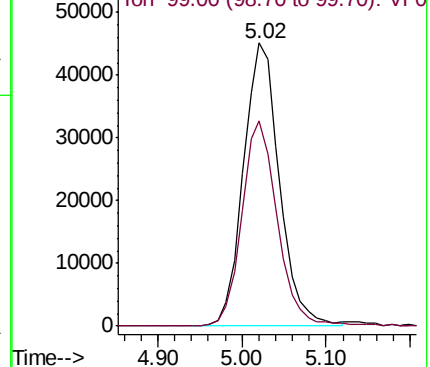
Ion Ratio Lower Upper

168 100

99 72.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: Below Cal

RT: 1.06 min Scan# 53

Delta R.T. -0.02 min

Lab File: VF060152.D

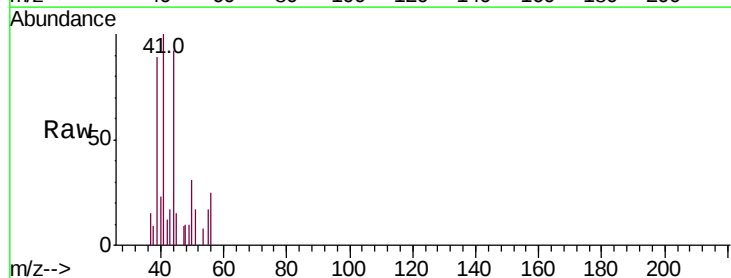
Acq: 28 Aug 2018 16:18

Tgt Ion: 50 Resp: 668

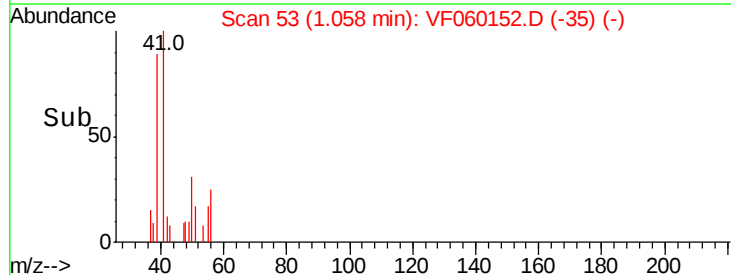
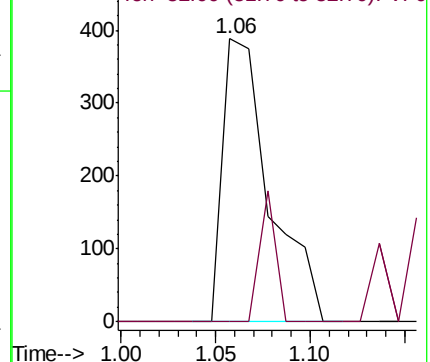
Ion Ratio Lower Upper

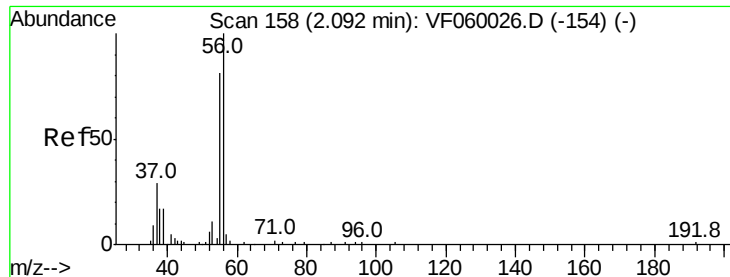
50 100

52 0.0 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#13

Acrolein

Concen: 27.472 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

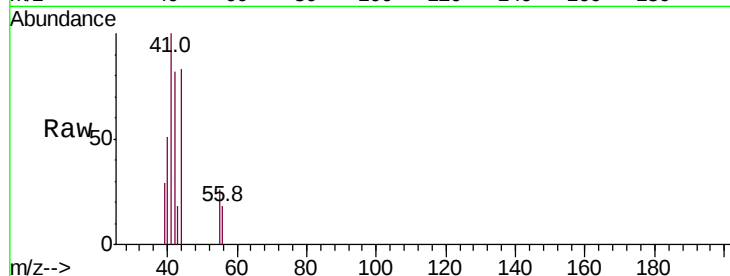
EP1-Q4-A6RE

Tot Ion: 56 Resp: 77

Ion Ratio Lower Upper

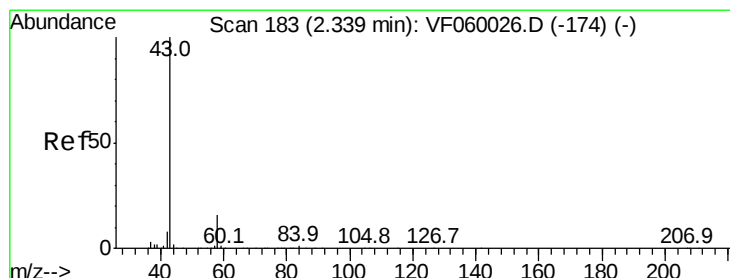
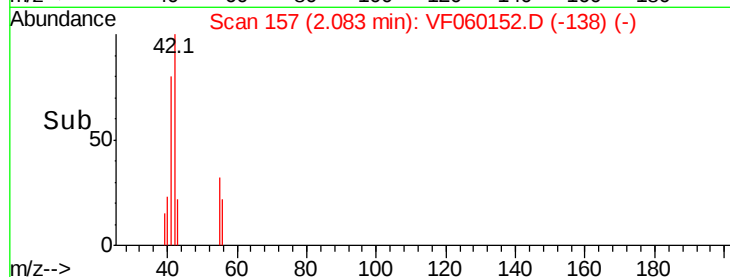
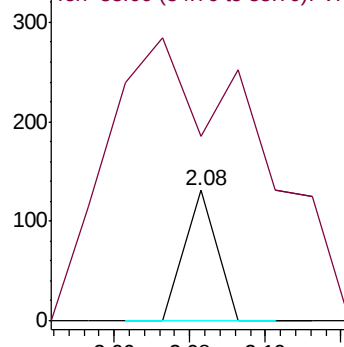
56 100

55 141.2 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 8.372 ug/l

RT: 2.30 min Scan# 179

Delta R.T. -0.04 min

Lab File: VF060152.D

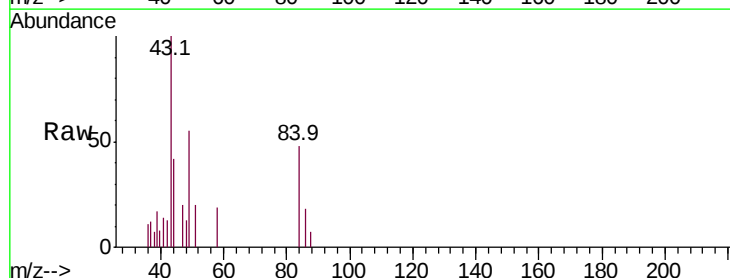
Acq: 28 Aug 2018 16:18

Tgt Ion: 43 Resp: 4062

Ion Ratio Lower Upper

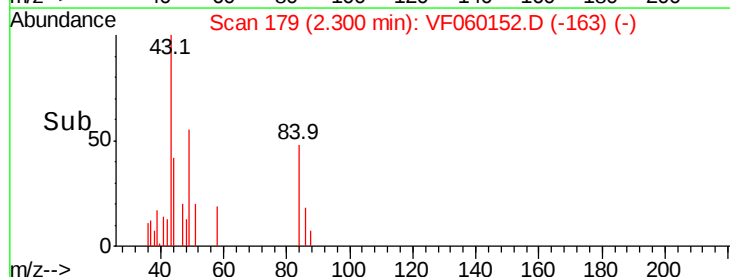
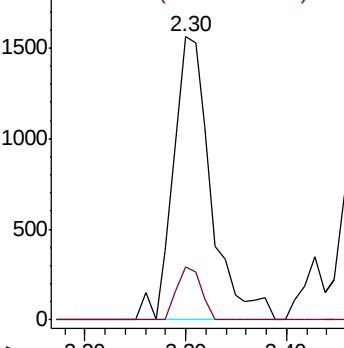
43 100

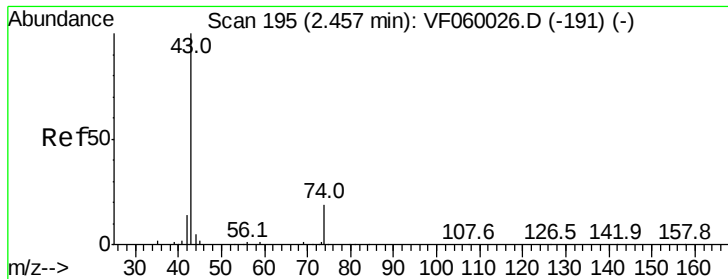
58 18.5 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#18

Methyl Acetate

Concen: Below Cal

RT: 2.48 min Scan# 197

Delta R.T. 0.02 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

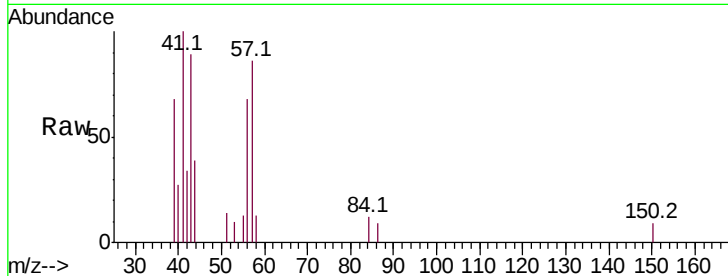
EP1-Q4-A6RE

Tot Ion: 43 Resp: 2544

Ion Ratio Lower Upper

43 100

74 0.0 13.8 20.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

1200

1000

800

600

400

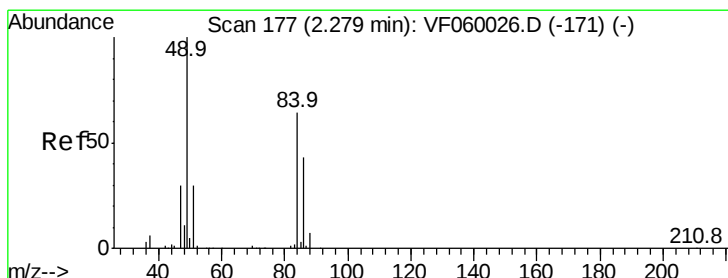
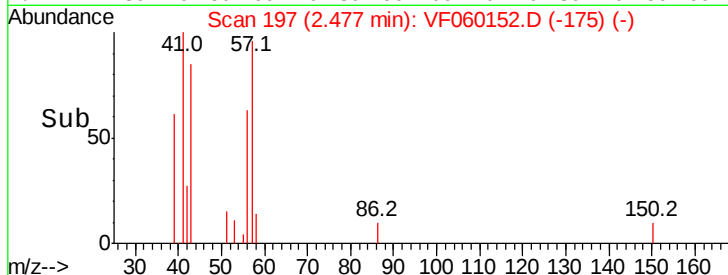
200

0

2.40

2.50

Time-->



#20

Methylene Chloride

Concen: 2.590 ug/l

RT: 2.27 min Scan# 176

Delta R.T. -0.01 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Tgt Ion: 84 Resp: 7119

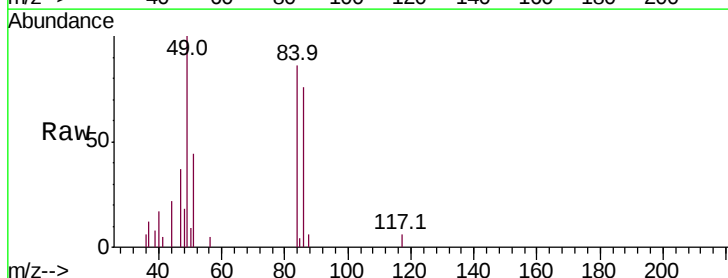
Ion Ratio Lower Upper

84 100

49 111.1 125.4 188.0#

51 49.2 38.3 57.5

86 84.7 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

6000

5000

4000

3000

2000

1000

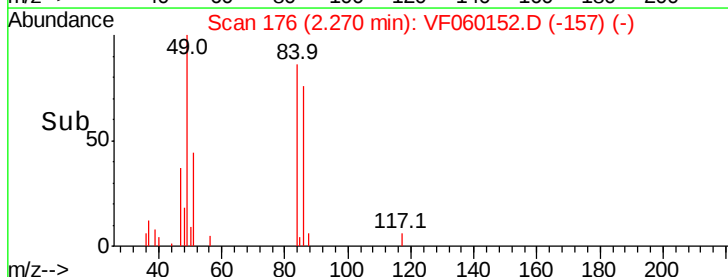
0

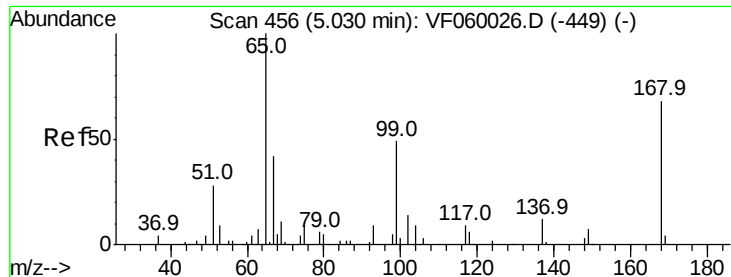
2.20

2.30

2.40

Time-->





#33

1,2-Dichloroethane-d4

Concen: 24.988 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.04 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

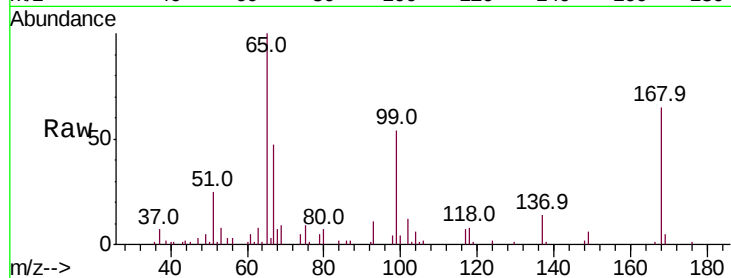
EP1-Q4-A6RE

Tot Ion: 65 Resp: 46130

Ion Ratio Lower Upper

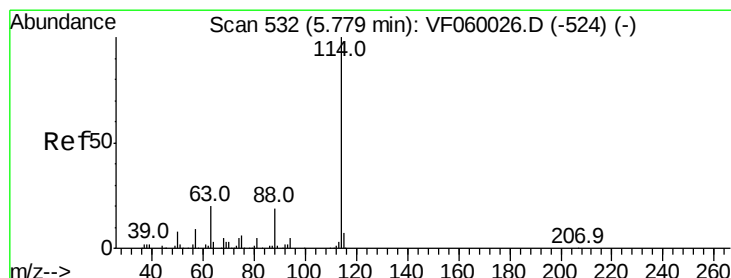
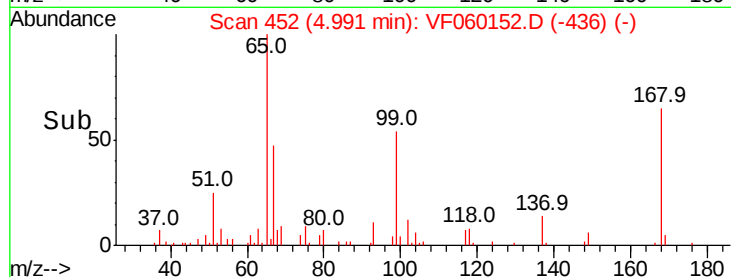
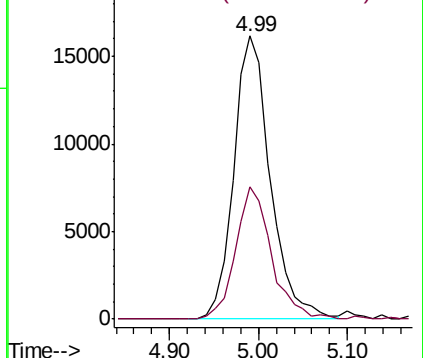
65 100

67 46.7 0.0 92.0



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: 5.75 min Scan# 529

Delta R.T. -0.03 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

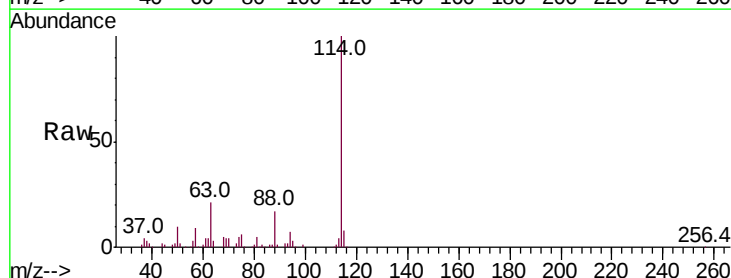
Tgt Ion: 114 Resp: 178206

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.4

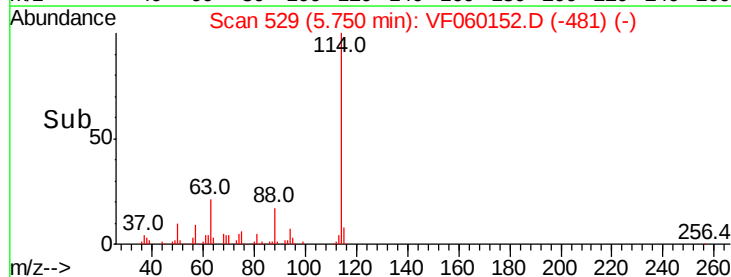
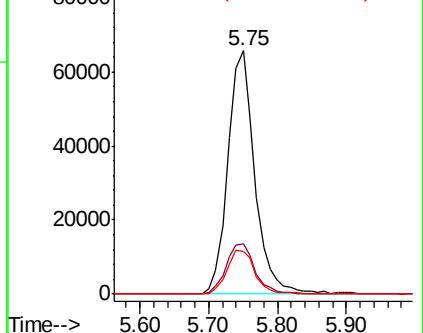
88 17.5 0.0 38.6

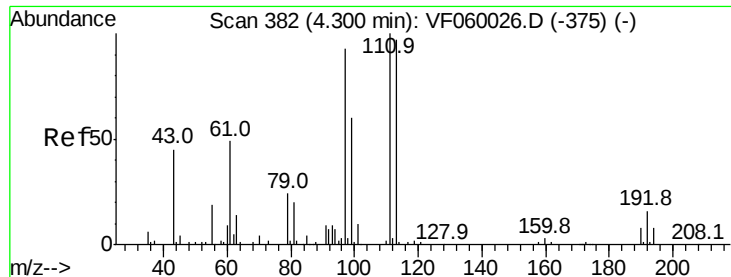


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

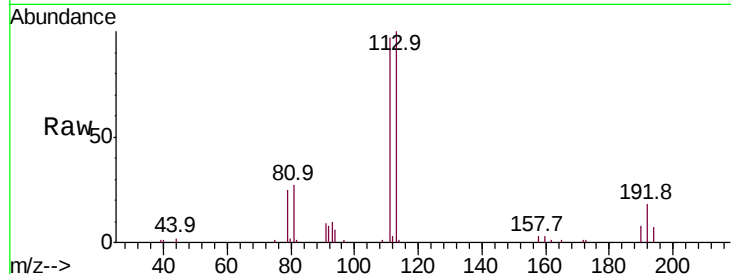




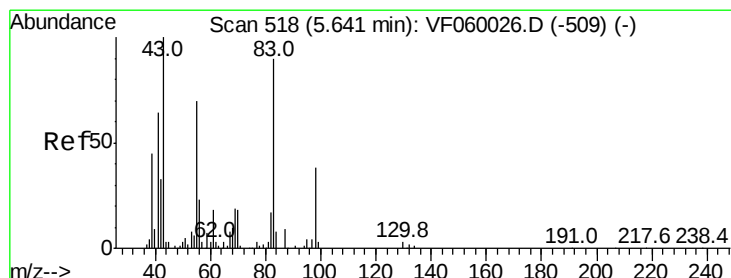
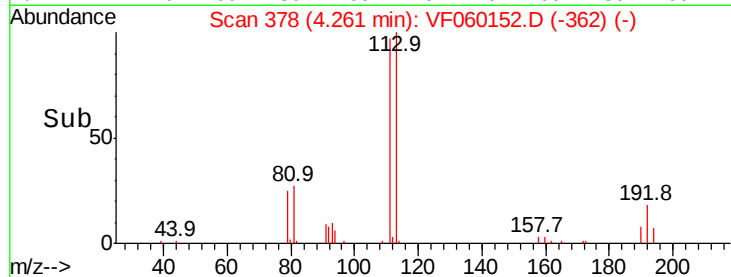
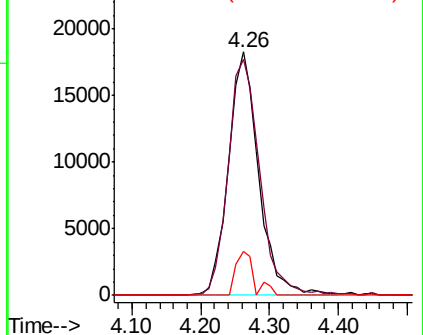
#35
 Dibromofluoromethane
 Concen: 39.767 ug/l
 RT: 4.26 min Scan# 378
 Delta R.T. -0.04 min
 Lab File: VF060152.D
 Acq: 28 Aug 2018 16:18

Instrument :
 MSVOA_F
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 EP1-Q4-A6RE

Tot Ion	Ratio	Lower	Upper
113	100		
111	96.7	82.7	124.1
192	17.9	13.0	19.4

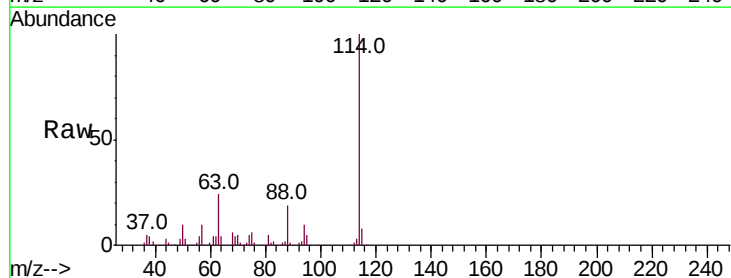


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

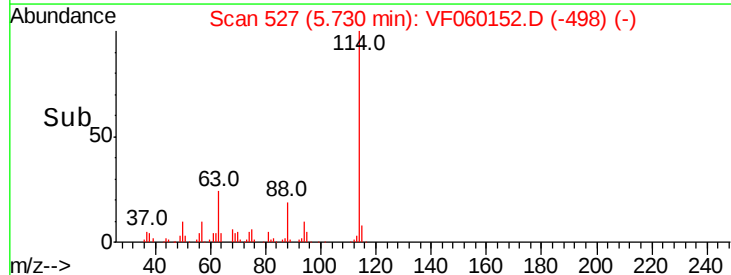
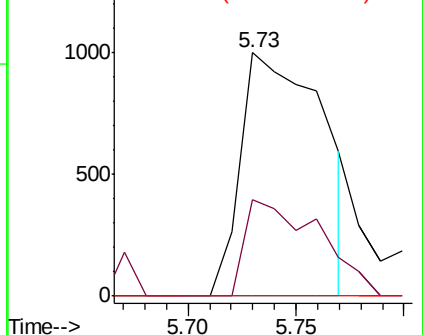


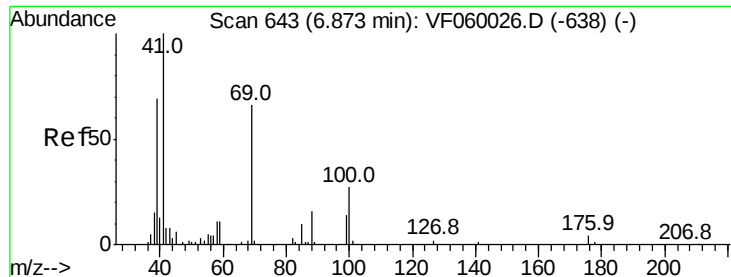
#39
 Methylcyclohexane
 Concen: 1.690 ug/l
 RT: 5.73 min Scan# 527
 Delta R.T. 0.09 min
 Lab File: VF060152.D
 Acq: 28 Aug 2018 16:18

Tgt Ion	Ratio	Lower	Upper
83	100		
55	39.6	62.7	94.1#
98	0.0	33.8	50.8#



Abundance Ion 83.00 (82.70 to 83.70): VF0
 Ion 55.00 (54.70 to 55.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0





#49

1,4-Dioxane

Concen: 9.241 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.47 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q4-A6RE

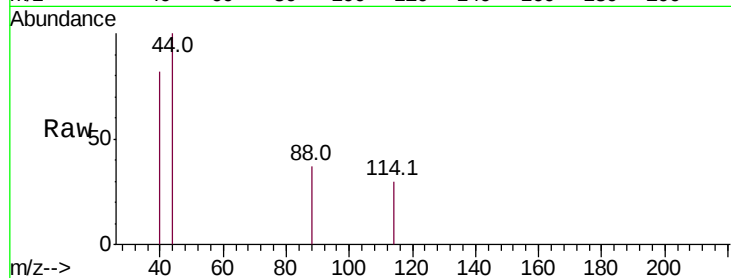
Tot Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 0.0 46.5 69.7#

58 0.0 54.8 82.2#



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

6.40

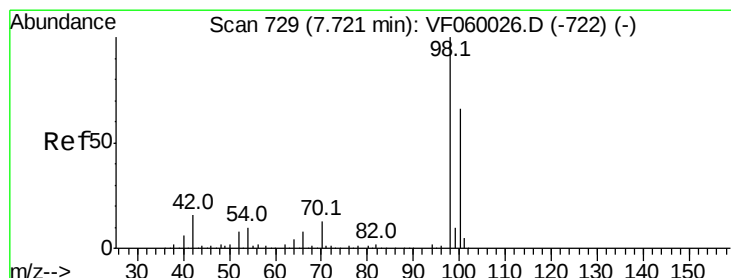
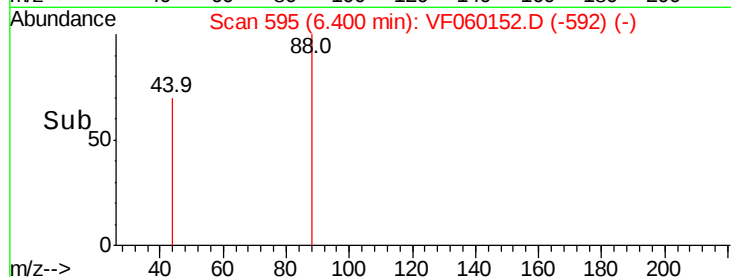
150

100

50

0

Time--> 6.38 6.40 6.42



#50

Toluene-d8

Concen: 42.134 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF060152.D

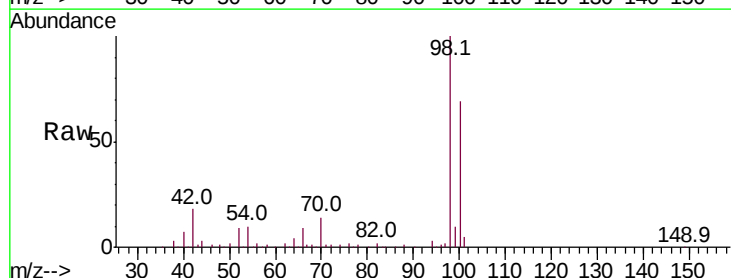
Acq: 28 Aug 2018 16:18

Tgt Ion: 98 Resp: 167448

Ion Ratio Lower Upper

98 100

100 69.4 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

80000

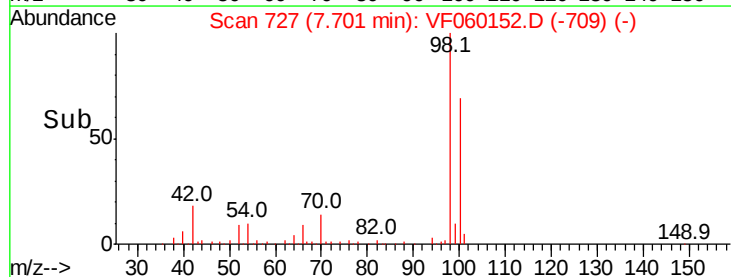
60000

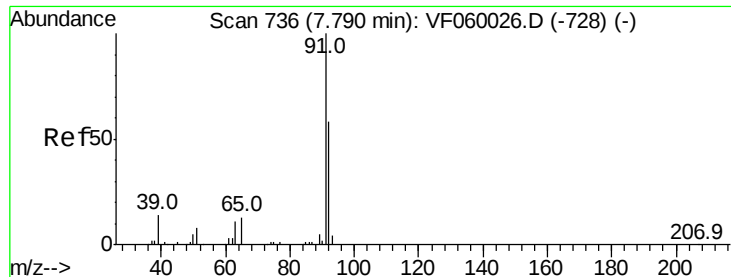
40000

20000

0

Time--> 7.60 7.70 7.80





#52

Toluene

Concen: Below Cal

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

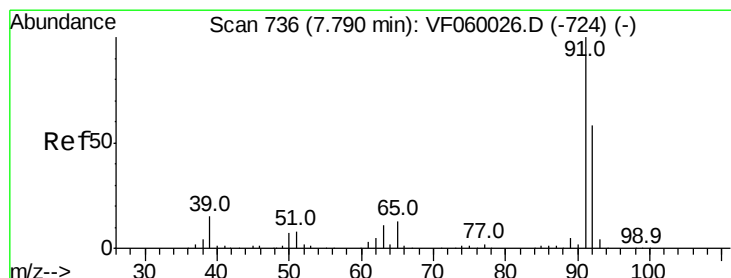
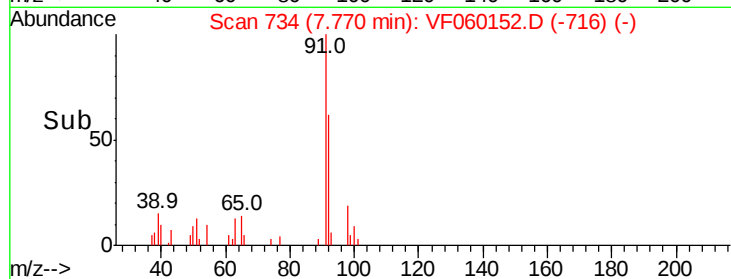
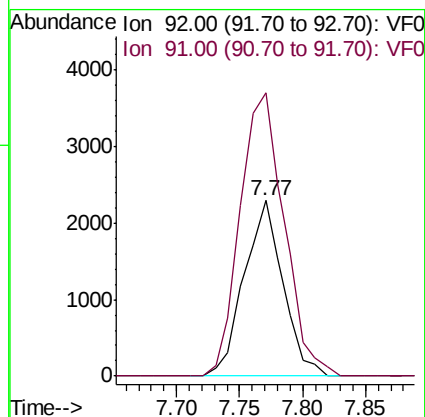
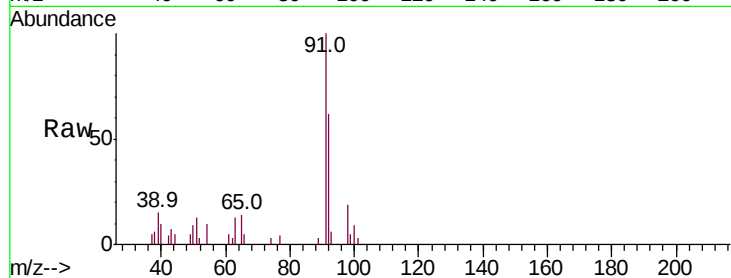
EP1-Q4-A6RE

Tot Ion: 92 Resp: 4919

Ion Ratio Lower Upper

92 100

91 161.1 137.7 206.5



#58

2-Chloroethyl Vinyl ether

Concen: 10.987 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF060152.D

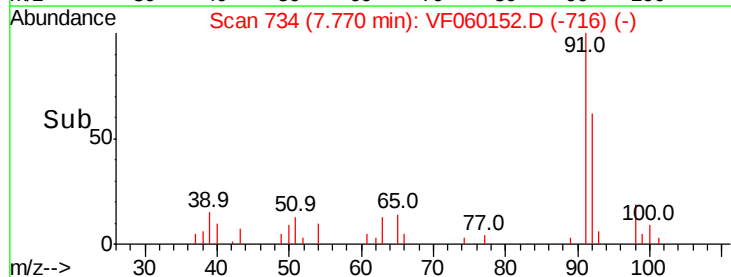
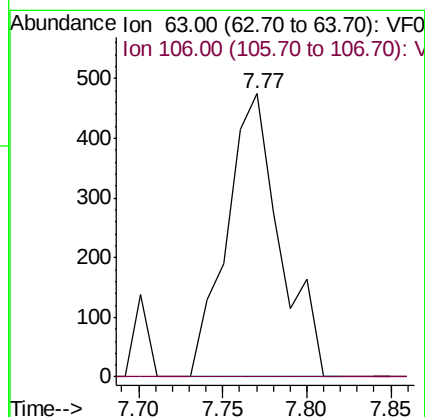
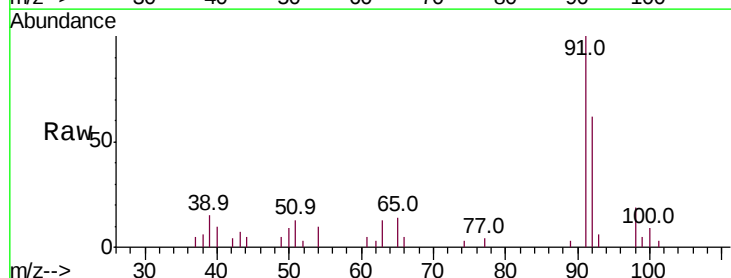
Acq: 28 Aug 2018 16:18

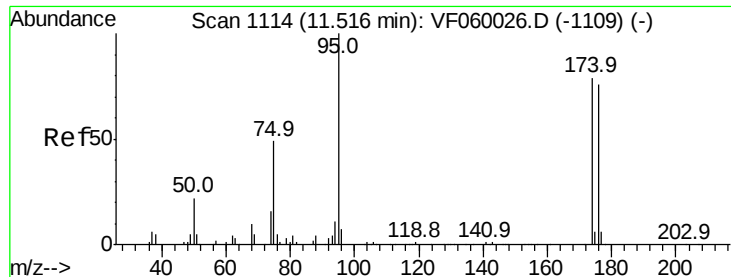
Tgt Ion: 63 Resp: 1042

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#62

4-Bromofluorobenzene

Concen: 32.016 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q4-A6RE

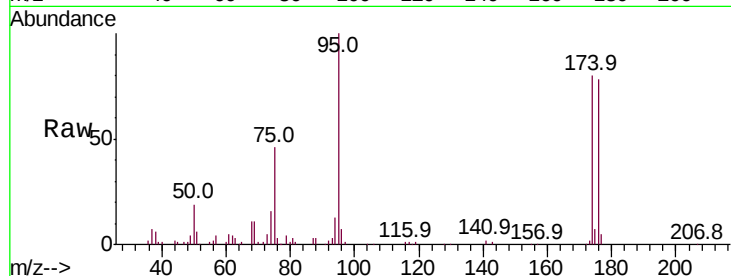
Tot Ion: 95 Resp: 67309

Ion Ratio Lower Upper

95 100

174 80.0 0.0 158.4

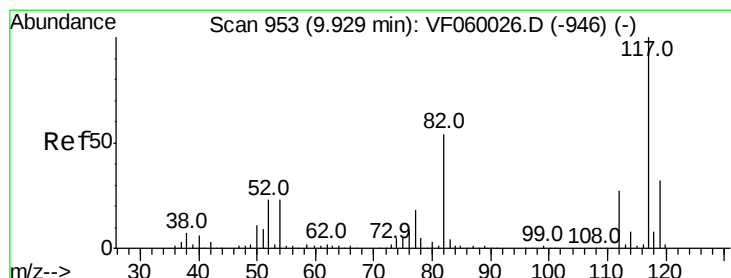
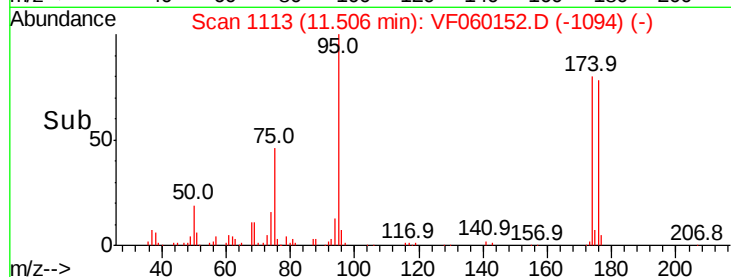
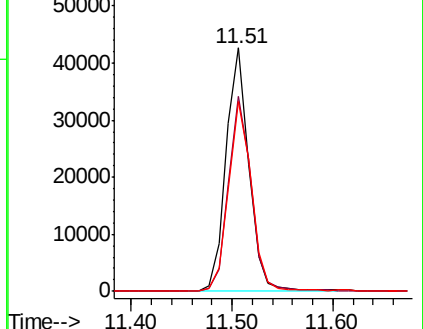
176 77.9 0.0 153.0



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: 9.91 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

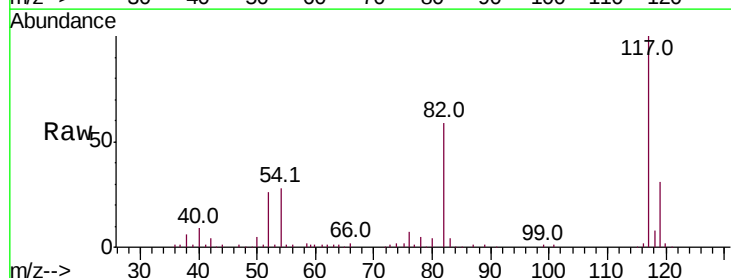
Tgt Ion: 117 Resp: 153550

Ion Ratio Lower Upper

117 100

82 59.2 43.6 65.4

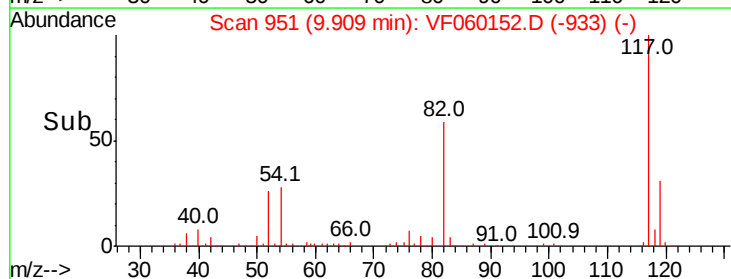
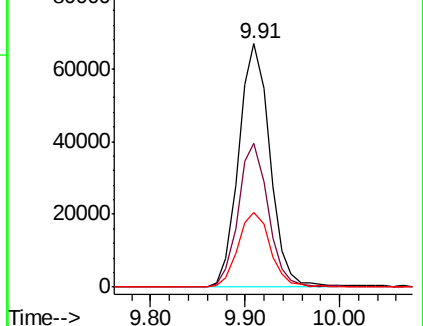
119 30.8 25.6 38.4

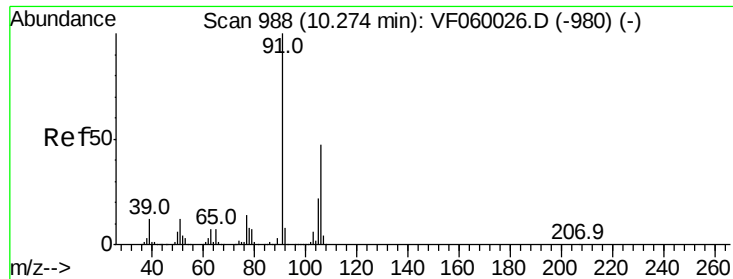


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

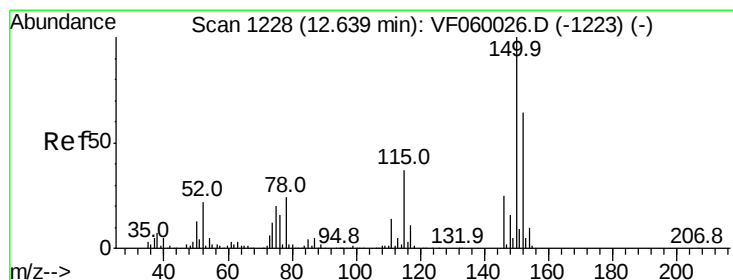
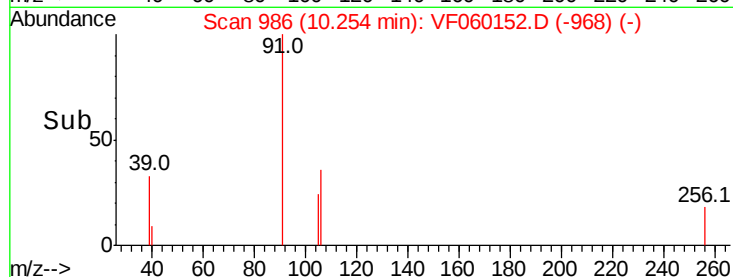
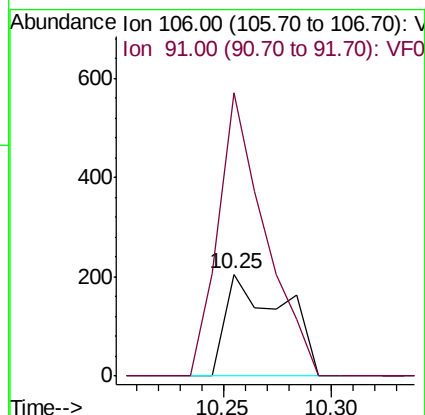
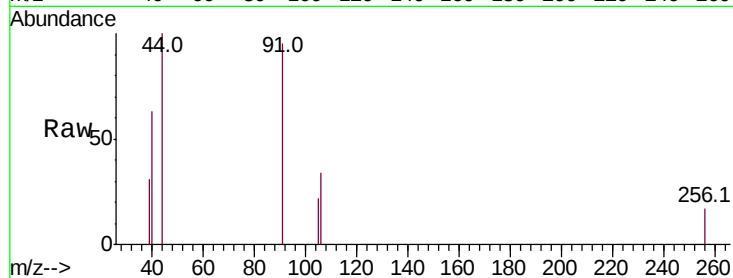




#68
m/p-Xvlenes
Concen: Below Cal
RT: 10.25 min Scan# 986
Delta R.T. -0.02 min
Lab File: VF060152.D
Acq: 28 Aug 2018 16:18

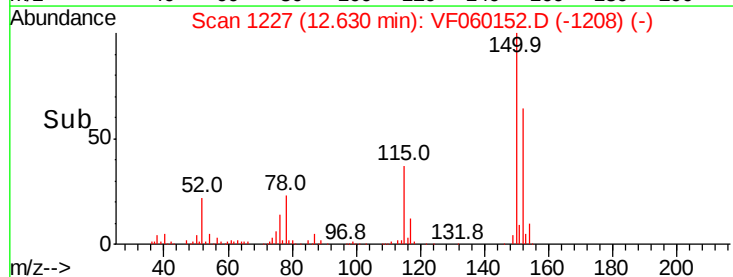
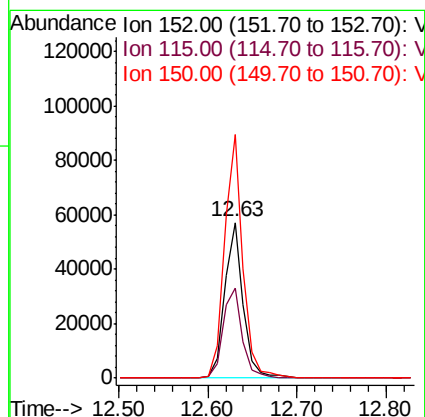
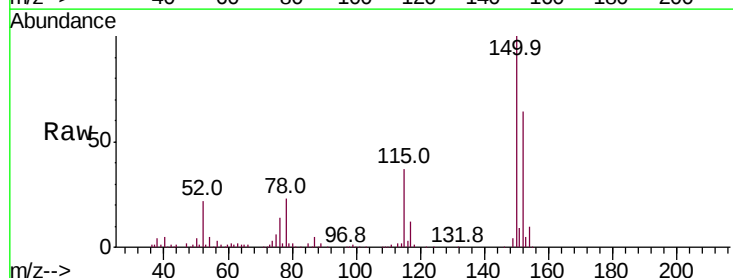
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q4-A6RE

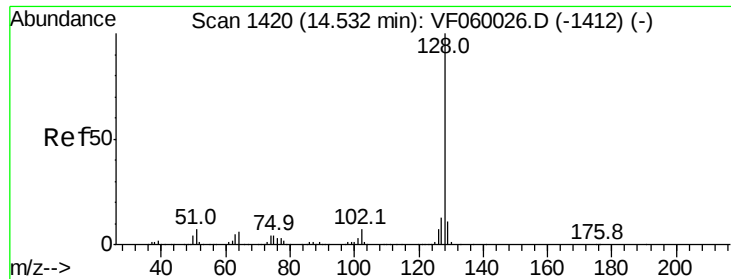
Tot Ion:106 Resp: 379
Ion Ratio Lower Upper
106 100
91 276.7 171.8 257.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF060152.D
Acq: 28 Aug 2018 16:18

Tgt Ion:152 Resp: 83635
Ion Ratio Lower Upper
152 100
115 57.8 28.6 85.9
150 156.4 0.0 312.0





#95

Naphthalene

Concen: 2.408 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF060152.D

Acq: 28 Aug 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q4-A6RE

Tot Ion:128 Resp: 399

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.5 12.7#

