

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082418\
 Data File : VF060103.D
 Acq On : 24 Aug 2018 16:43
 Operator : VA/AP
 Sample : J4581-20RE
 Misc : 5.58g/5mL/MSVOA F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q3-D4

Quant Time: Aug 25 03:46:20 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	153066	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	239707	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	250095	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	131062	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	97283	46.44	ug/l	-0.01
Spiked Amount			Recovery	=	92.88%	
35) Dibromofluoromethane	4.29	113	102364	54.38	ug/l	-0.01
Spiked Amount			Recovery	=	108.76%	
50) Toluene-d8	7.71	98	245135	45.86	ug/l	-0.01
Spiked Amount			Recovery	=	91.72%	
62) 4-Bromofluorobenzene	11.50	95	121917	43.11	ug/l	-0.01
Spiked Amount			Recovery	=	86.22%	

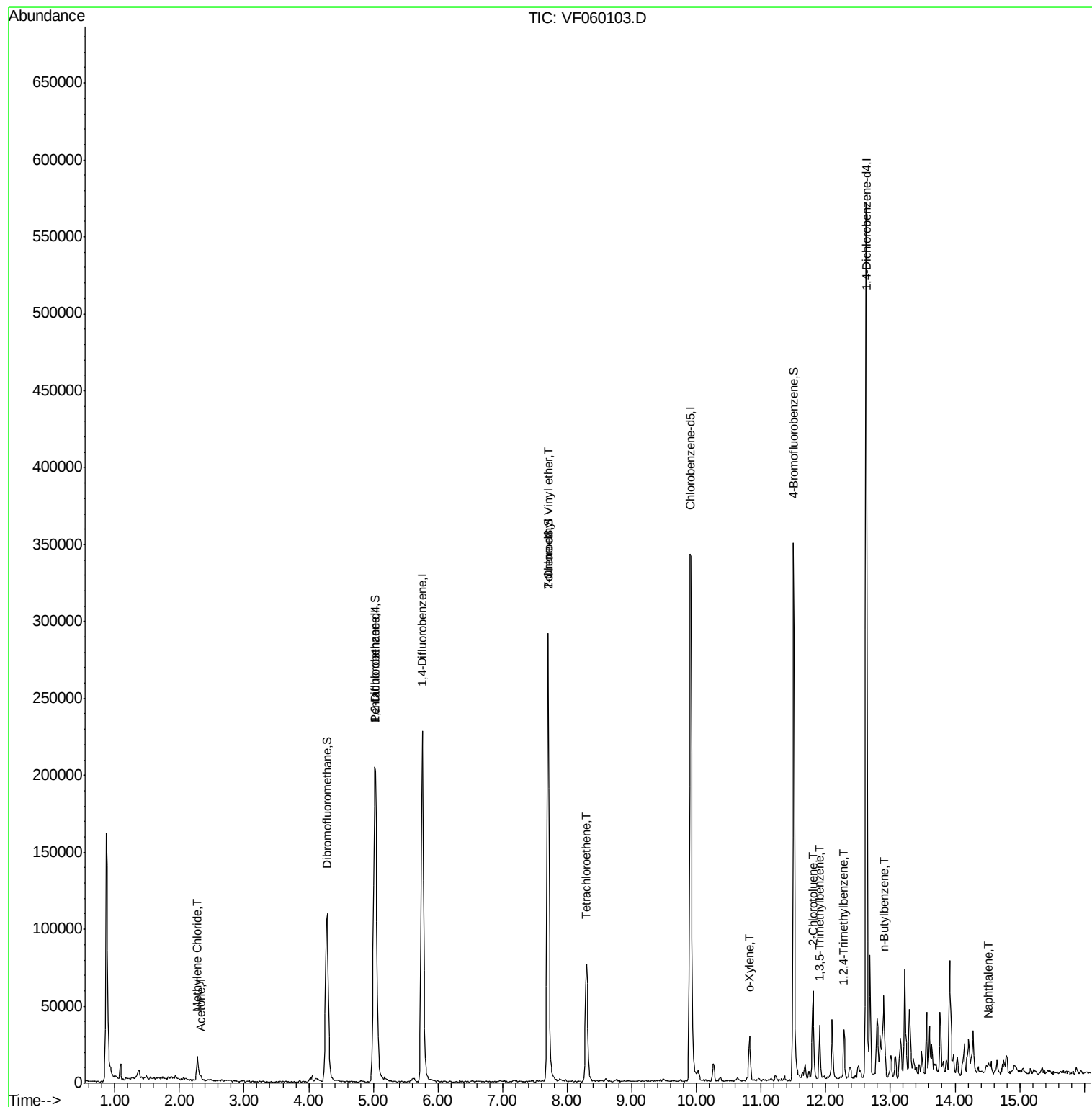
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	843	Below Cal		89
16) Acetone	2.33	43	2581	4.69 ug/l	#	88
18) Methyl Acetate	2.44	43	778	Below Cal	#	60
20) Methylene Chloride	2.28	84	7529	2.03 ug/l	#	82
52) Toluene	7.78	92	985	Below Cal	#	47
58) 2-Chloroethyl Vinyl ether	7.71	63	216	1.69 ug/l		100
64) Tetrachloroethene	8.30	164	22025	13.07 ug/l		93
68) m/p-Xylenes	10.27	106	3721	Below Cal		90
69) o-Xylene	10.82	106	8143	2.55 ug/l		77
79) 2-Chlorotoluene	11.81	91	6902	1.21 ug/l	#	62
80) 1,3,5-Trimethylbenzene	11.91	105	18322	2.67 ug/l		95
84) 1,2,4-Trimethylbenzene	12.28	105	15637	2.14 ug/l		92
89) n-Butylbenzene	12.91	91	11584	1.54 ug/l	#	63
95) Naphthalene	14.52	128	2730	2.82 ug/l	#	73

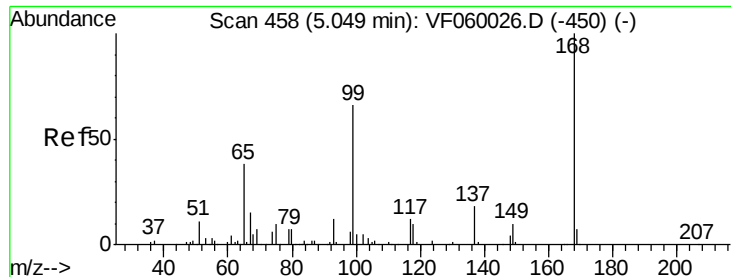
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 25 03:46:20 2018
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Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060103.D

Acq: 24 Aug 2018 16:43

Instrument :

MSVOA_F

ClientSampleId :

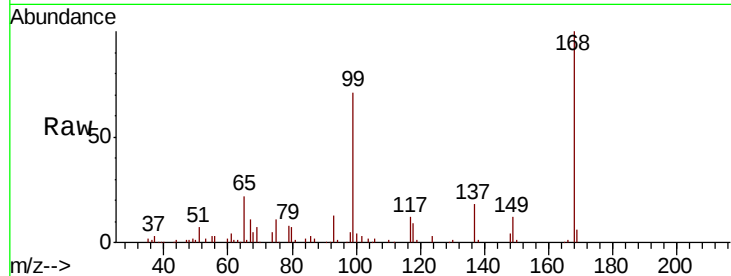
EP1-Q3-D4

Tot Ion:168 Resp: 153066

Ion Ratio Lower Upper

168 100

99 70.7 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

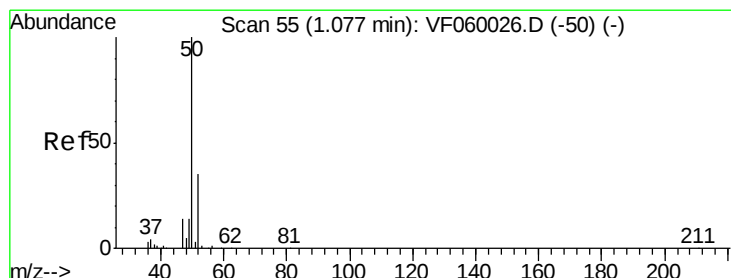
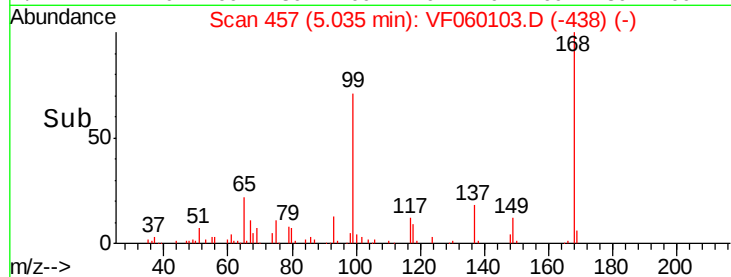
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060103.D

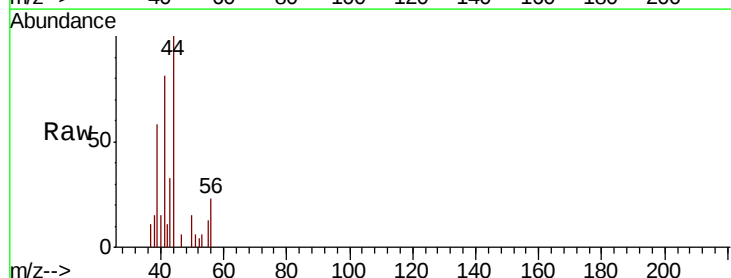
Acq: 24 Aug 2018 16:43

Tgt Ion: 50 Resp: 843

Ion Ratio Lower Upper

50 100

52 27.9 27.6 41.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

400

300

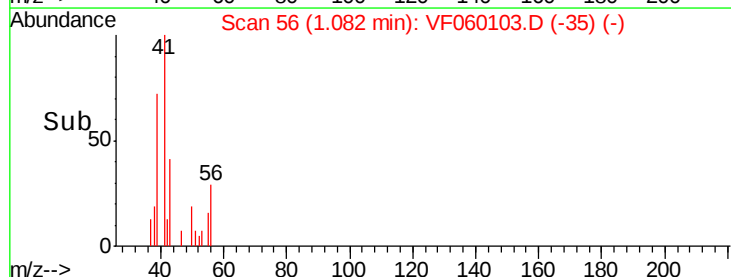
200

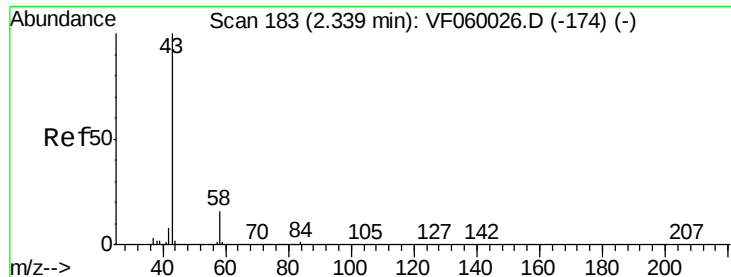
100

0

Time-->

1.00 1.05 1.10 1.15





#16

Acetone

Concen: 4.69 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF060103.D

Acq: 24 Aug 2018 16:43

Instrument :

MSVOA_F

ClientSampleId :

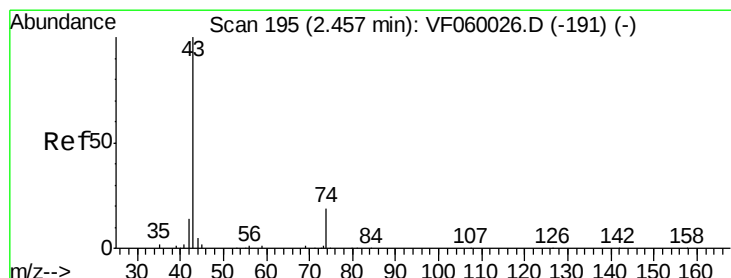
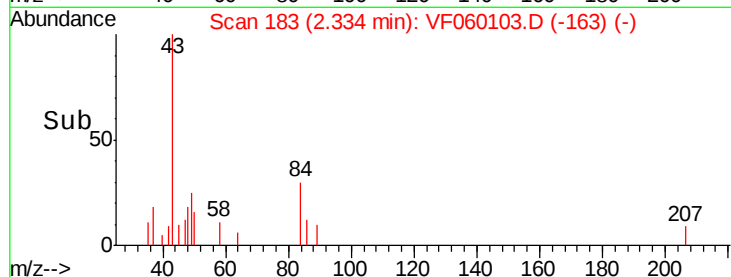
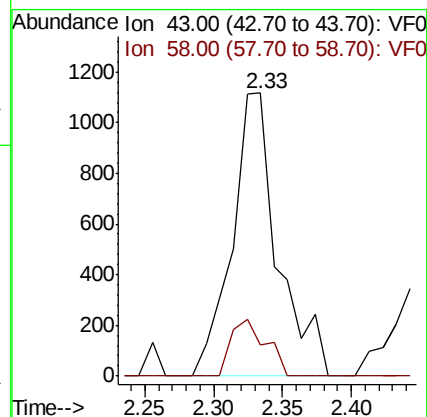
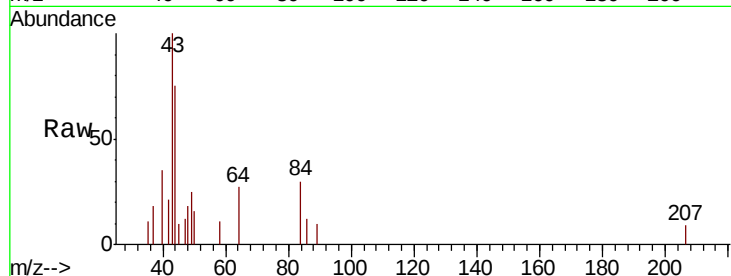
EP1-Q3-D4

Tot Ion: 43 Resp: 2581

Ion Ratio Lower Upper

43 100

58 10.9 12.6 19.0#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.44 min Scan# 194

Delta R.T. -0.01 min

Lab File: VF060103.D

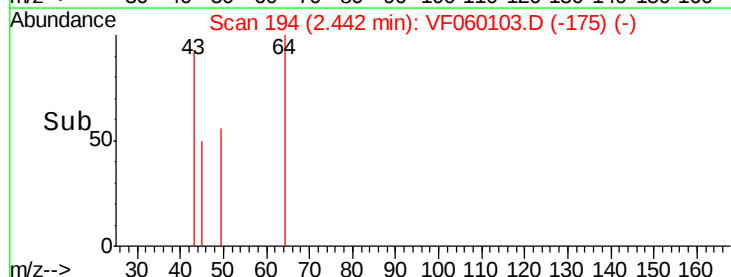
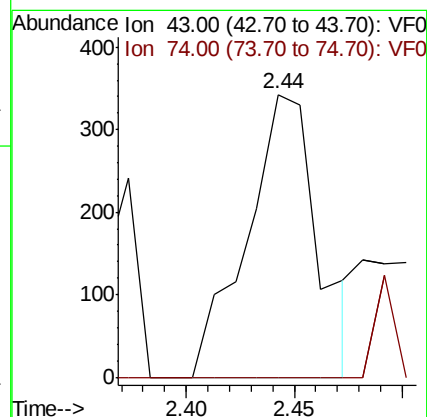
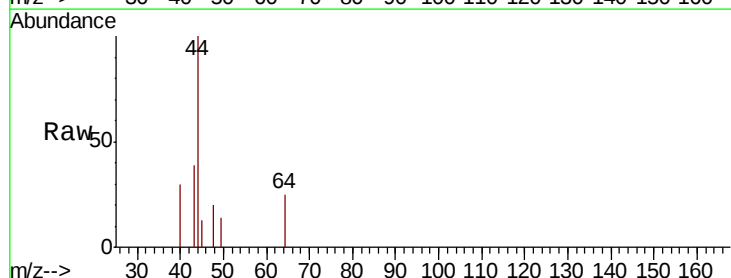
Acq: 24 Aug 2018 16:43

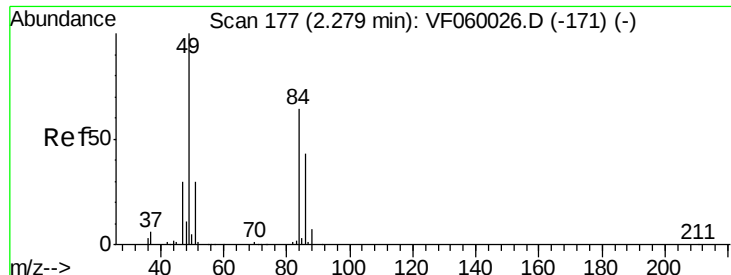
Tgt Ion: 43 Resp: 778

Ion Ratio Lower Upper

43 100

74 0.0 13.8 20.6#

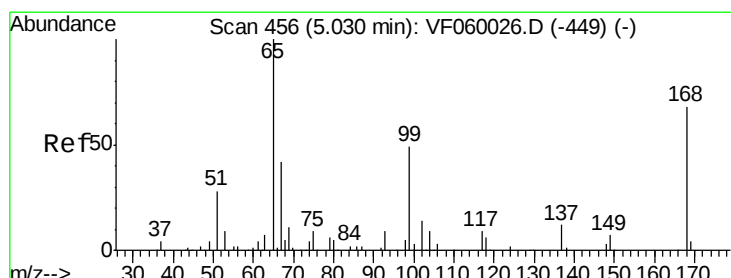
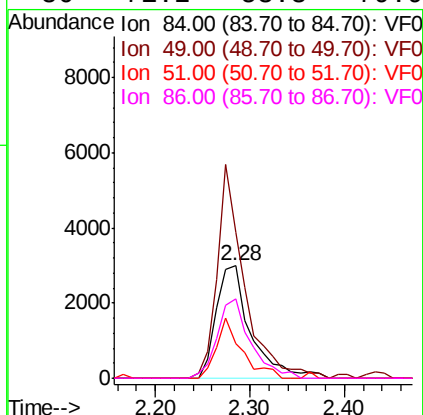
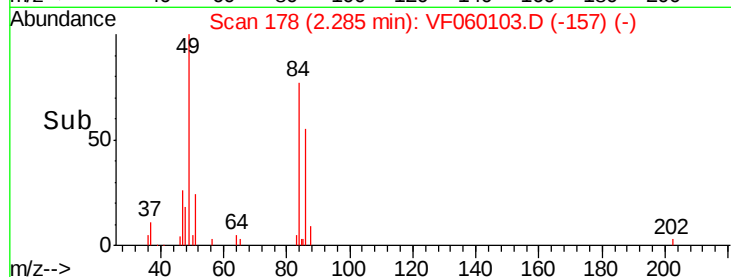
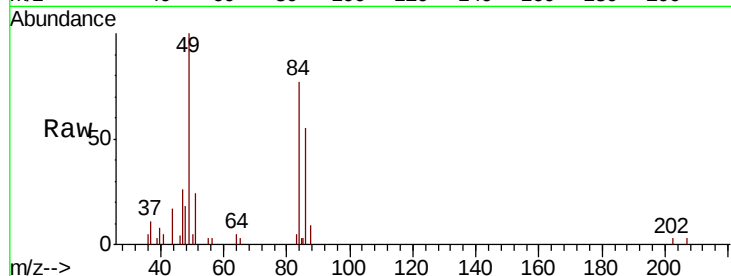




#20
Methylene Chloride
Concen: 2.03 ug/l
RT: 2.28 min Scan# 178
Delta R.T. 0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

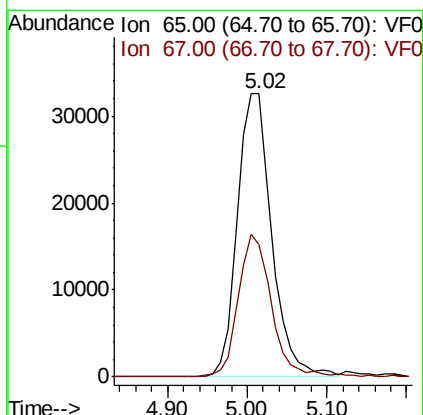
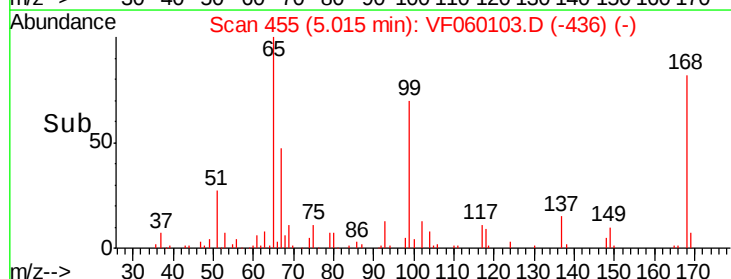
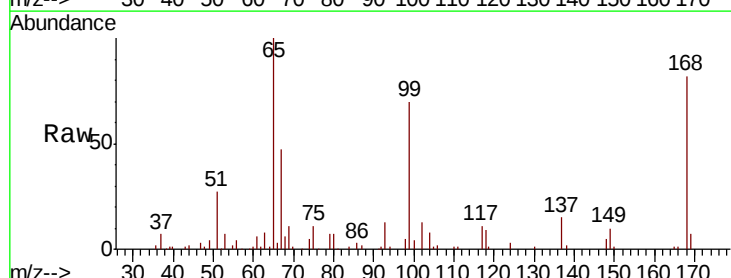
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q3-D4

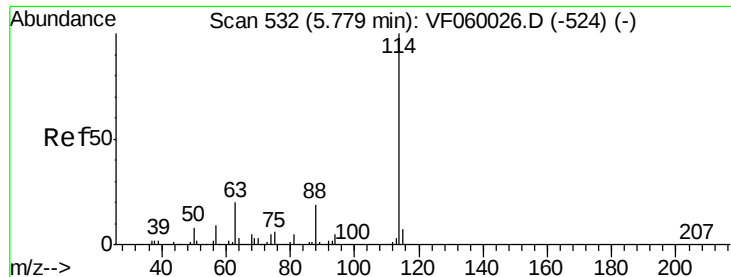
Tot Ion: 84 Resp: 7529
Ion Ratio Lower Upper
84 100
49 130.0 125.4 188.0
51 31.1 38.3 57.5#
86 71.2 53.3 79.9



#33
1,2-Dichloroethane-d4
Concen: 46.44 ug/l
RT: 5.02 min Scan# 455
Delta R.T. -0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

Tgt Ion: 65 Resp: 97283
Ion Ratio Lower Upper
65 100
67 46.9 0.0 92.0

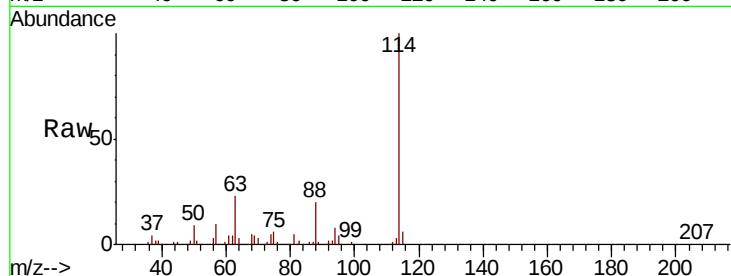




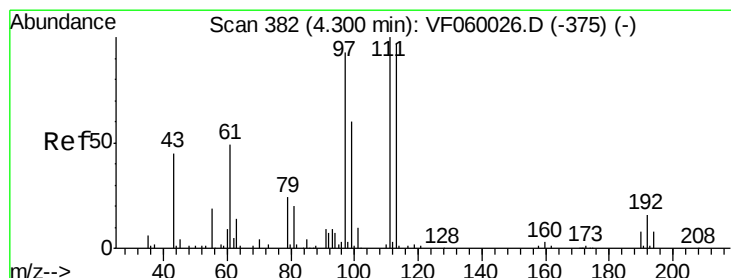
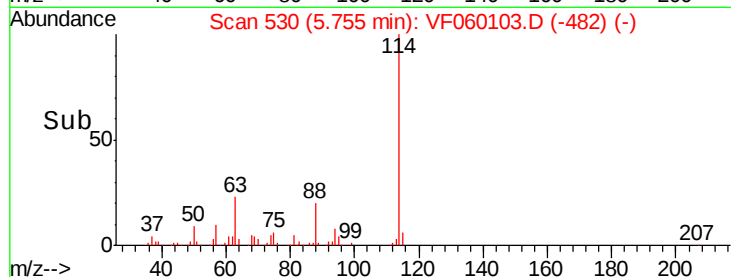
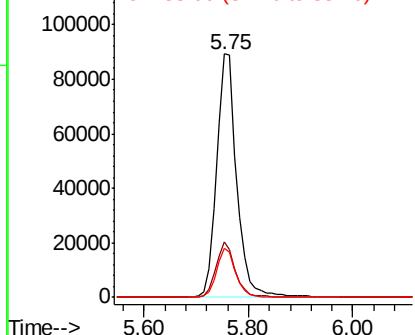
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.02 min
 Lab File: VF060103.D
 Acq: 24 Aug 2018 16:43

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q3-D4

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	40.4
88	20.3	0.0	38.6

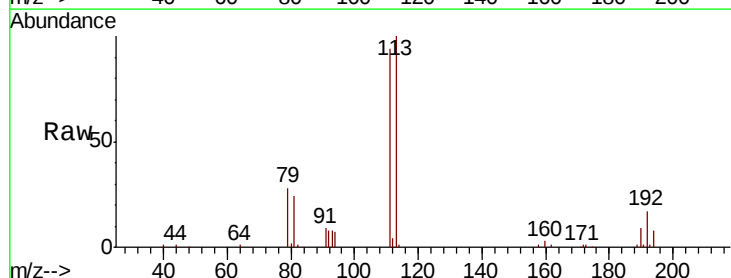


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

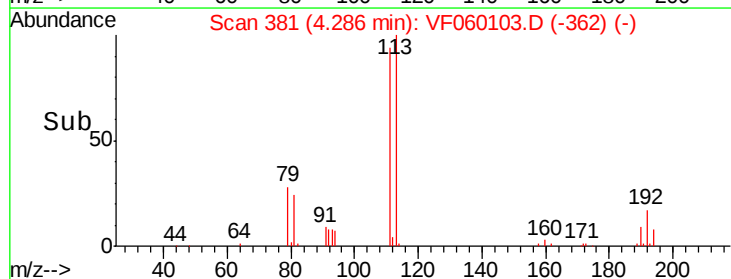
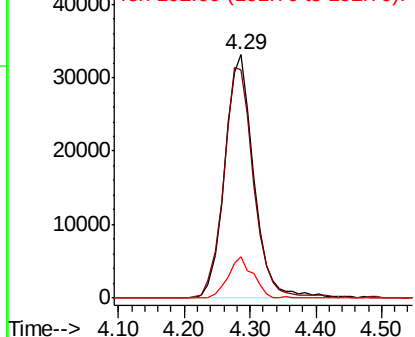


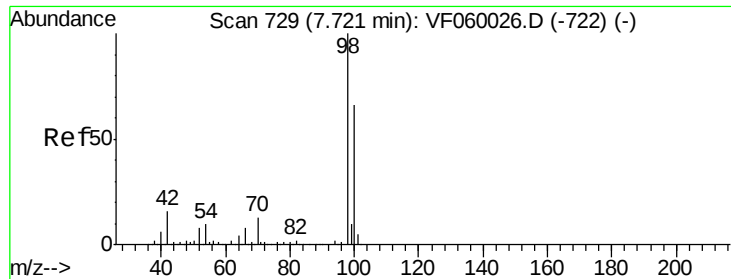
#35
 Dibromofluoromethane
 Concen: 54.38 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VF060103.D
 Acq: 24 Aug 2018 16:43

Tgt Ion	Ratio	Lower	Upper
113	100		
111	93.8	82.7	124.1
192	17.1	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

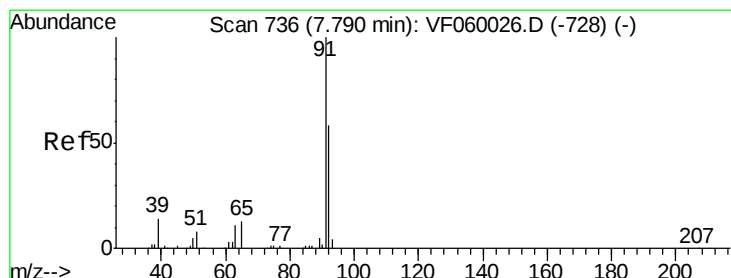
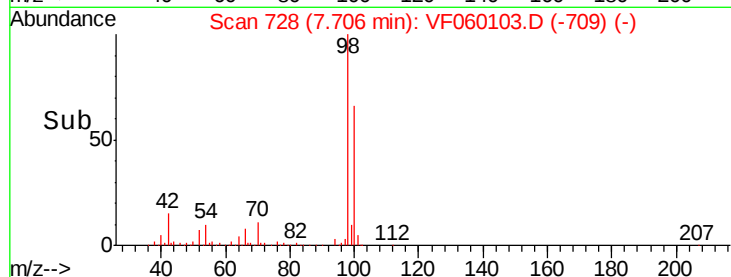
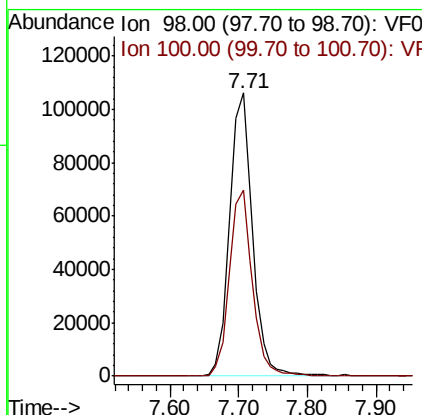
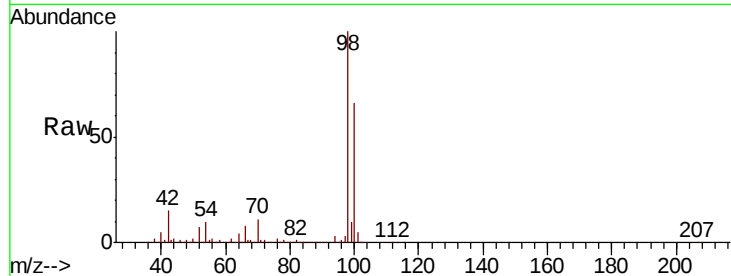




#50
Toluene-d8
Concen: 45.86 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

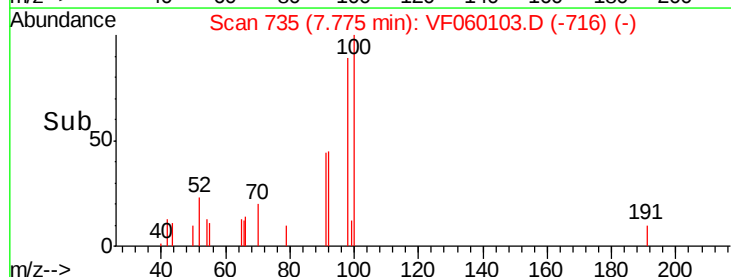
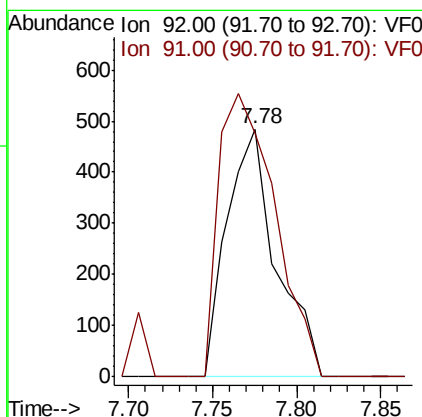
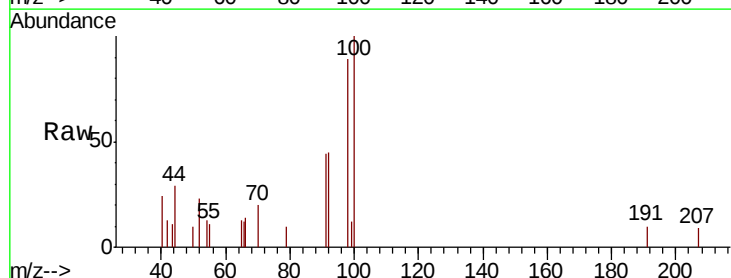
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q3-D4

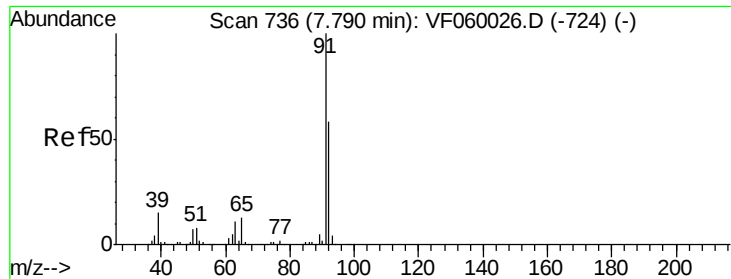
Tot Ion: 98 Resp: 245135
Ion Ratio Lower Upper
98 100
100 65.6 53.2 79.8



#52
Toluene
Concen: Below Cal
RT: 7.78 min Scan# 735
Delta R.T. -0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

Tgt Ion: 92 Resp: 985
Ion Ratio Lower Upper
92 100
91 98.4 137.7 206.5#





#58

2-Chloroethyl Vinyl ether

Concen: 1.69 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.08 min

Lab File: VF060103.D

Acq: 24 Aug 2018 16:43

Instrument :

MSVOA_F

ClientSampleId :

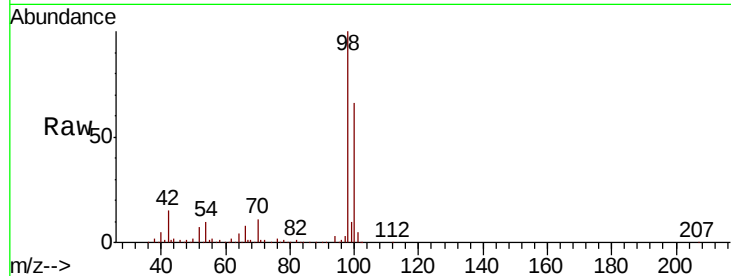
EP1-Q3-D4

Tot Ion: 63 Resp: 216

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.71

250

200

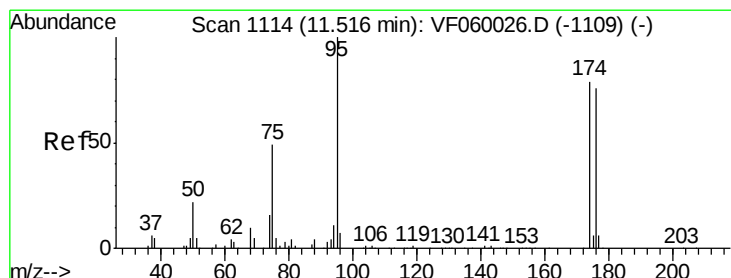
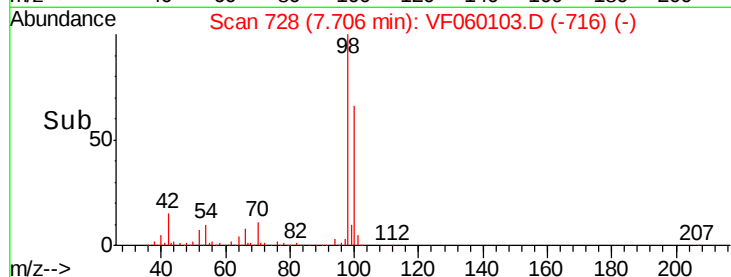
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.11 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060103.D

Acq: 24 Aug 2018 16:43

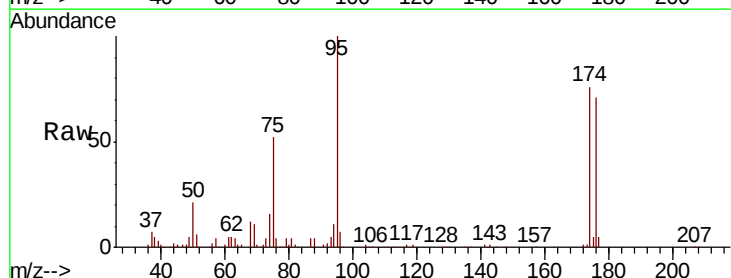
Tgt Ion: 95 Resp: 121917

Ion Ratio Lower Upper

95 100

174 76.2 0.0 158.4

176 71.5 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

80000

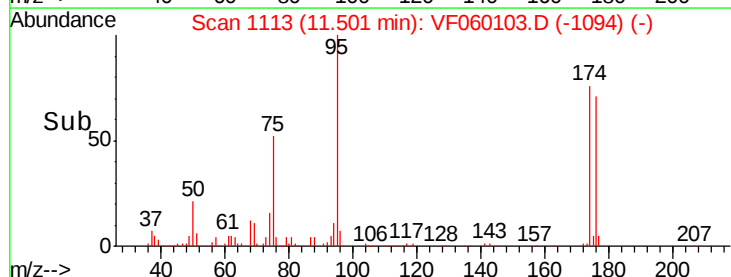
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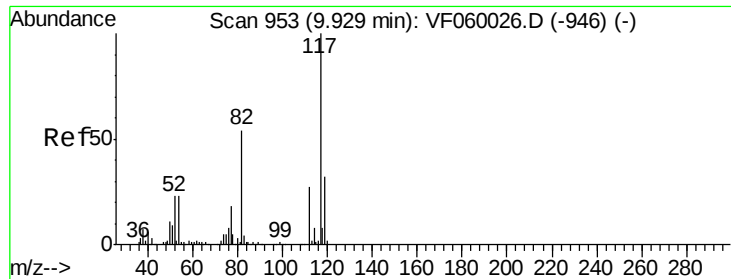
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Time-->

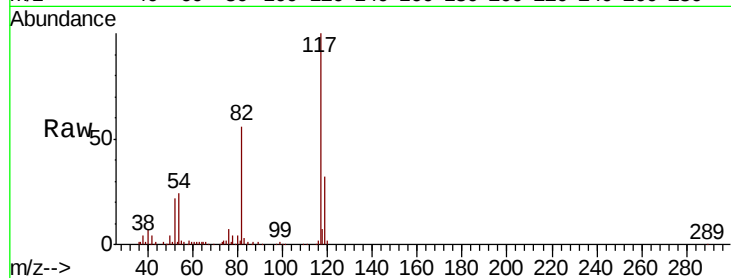




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q3-D4

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	43.6	65.4
119	31.8	25.6	38.4

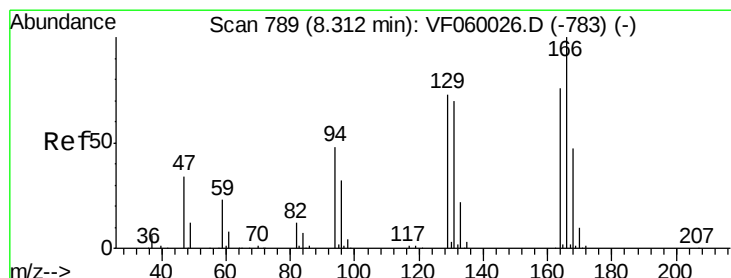
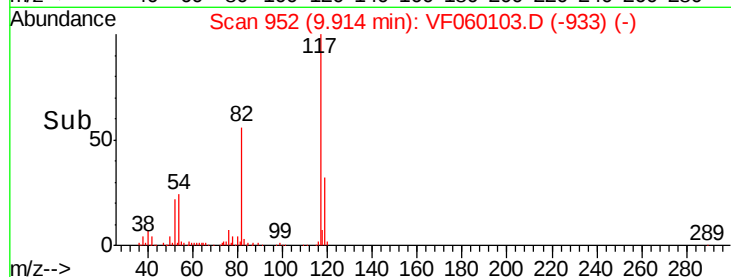
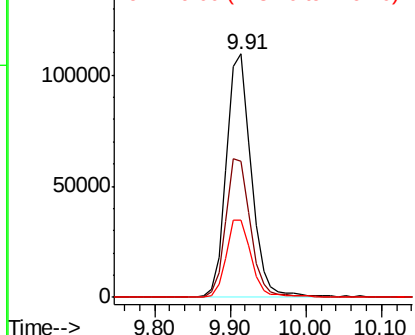


Abundance

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



#64
Tetrachloroethene
Concen: 13.07 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	137.1	104.7	157.1
129	104.5	77.0	115.4
131	99.4	72.9	109.3

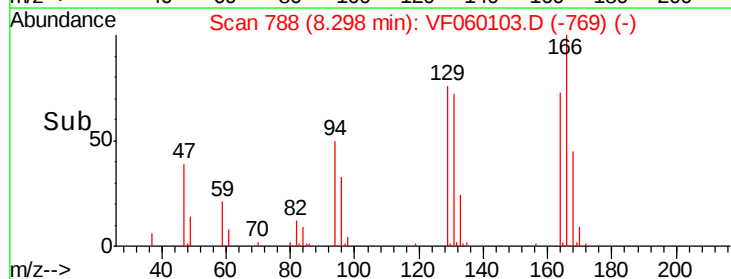
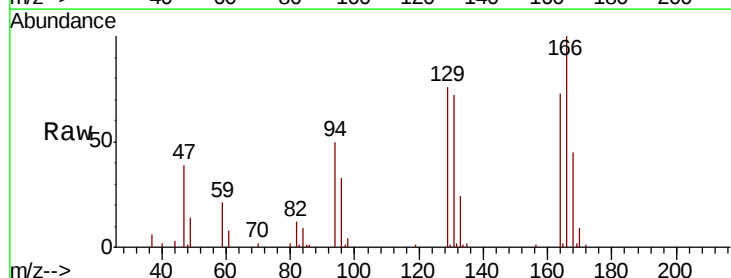
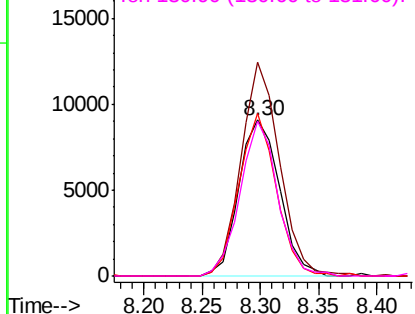
Abundance

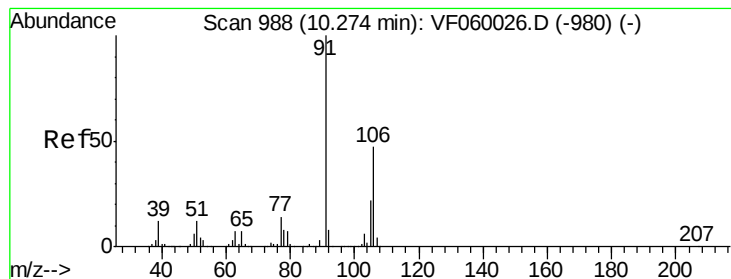
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#68

m/p-Xylenes

Concen: Below Cal

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF060103.D

Acq: 24 Aug 2018 16:43

Instrument :

MSVOA_F

ClientSampleId :

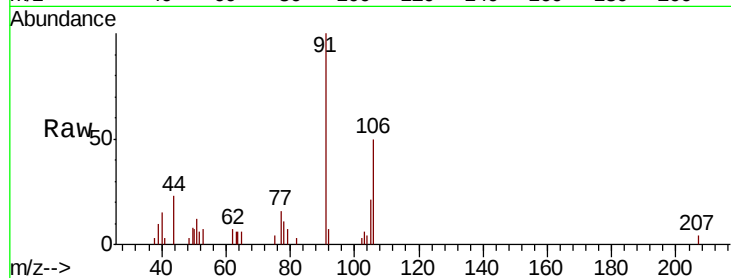
EP1-Q3-D4

Tot Ion:106 Resp: 3721

Ion Ratio Lower Upper

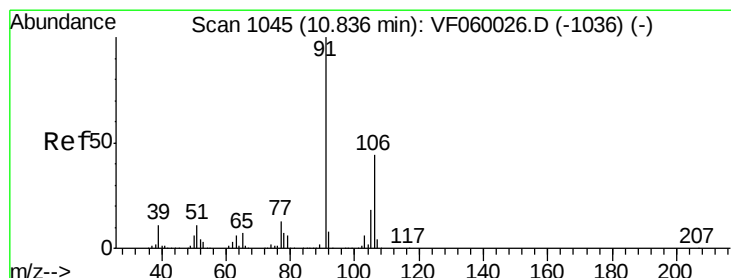
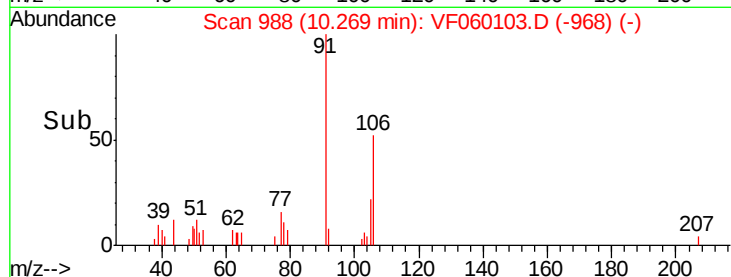
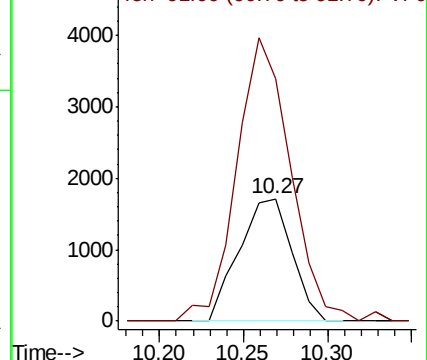
106 100

91 198.7 171.8 257.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 2.55 ug/l

RT: 10.82 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VF060103.D

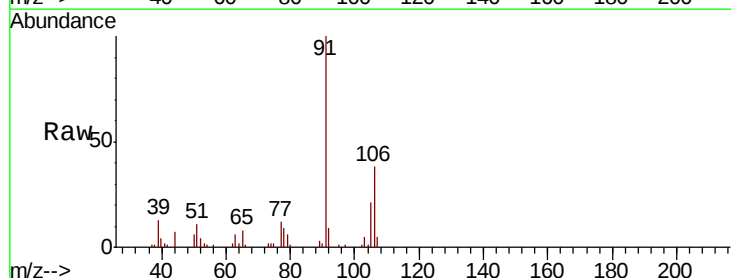
Acq: 24 Aug 2018 16:43

Tgt Ion:106 Resp: 8143

Ion Ratio Lower Upper

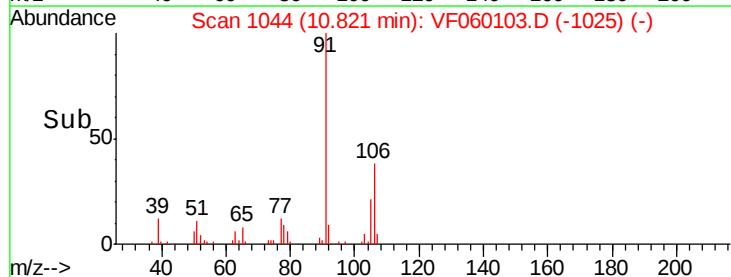
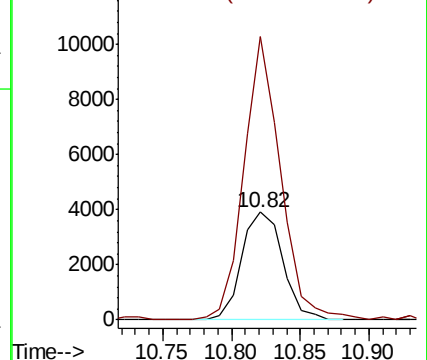
106 100

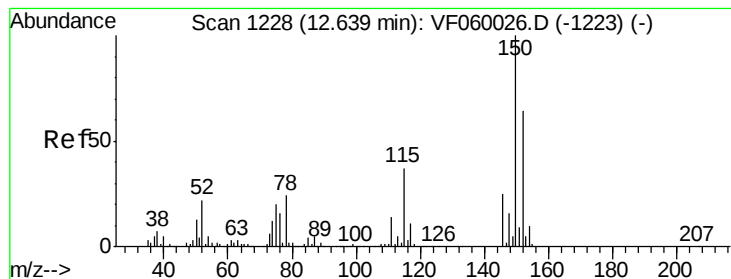
91 262.9 112.5 337.5



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: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF060103.D

Acq: 24 Aug 2018 16:43

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q3-D4

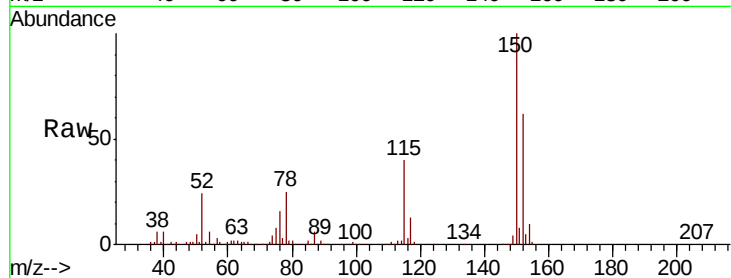
Tot Ion:152 Resp: 131062

Ion Ratio Lower Upper

152 100

115 63.7 28.6 85.9

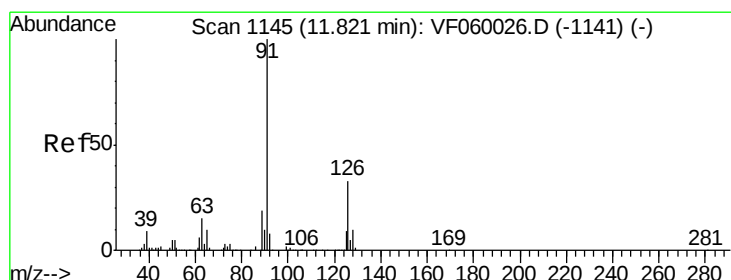
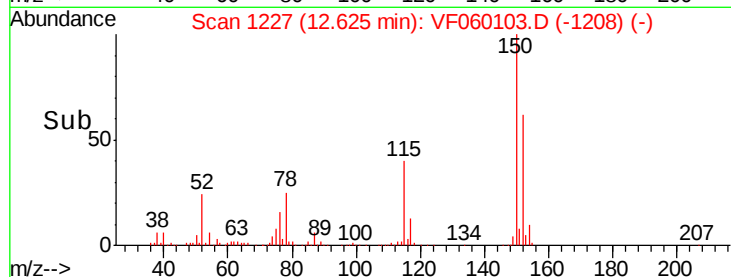
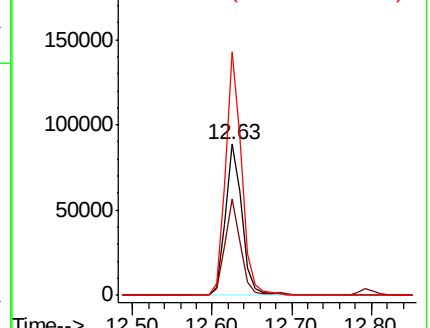
150 160.9 0.0 312.0



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



#79

2-Chlorotoluene

Concen: 1.21 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF060103.D

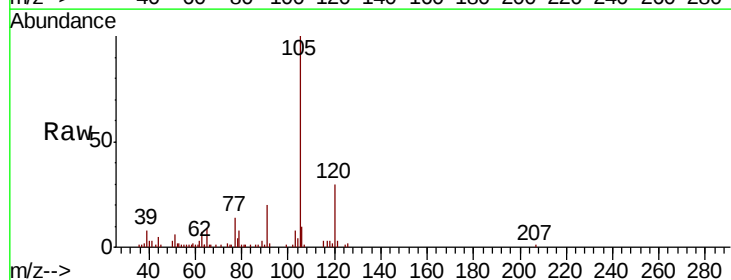
Acq: 24 Aug 2018 16:43

Tgt Ion: 91 Resp: 6902

Ion Ratio Lower Upper

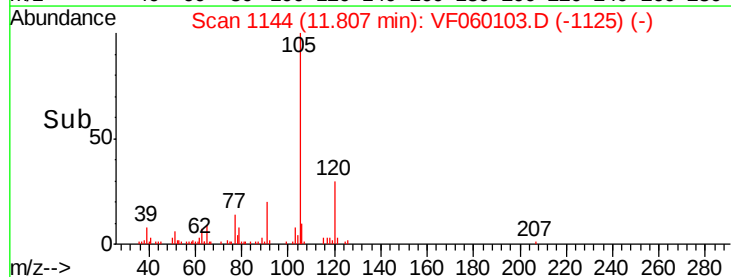
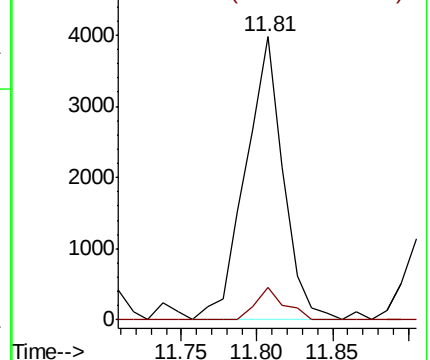
91 100

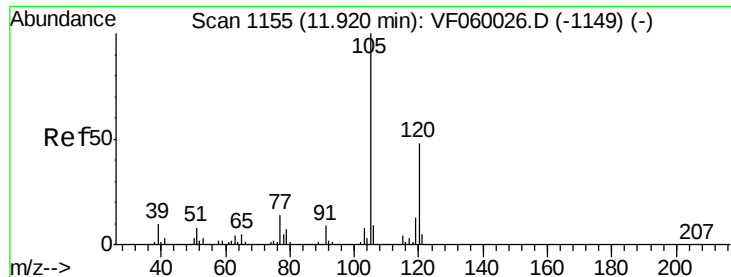
126 11.6 16.6 49.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

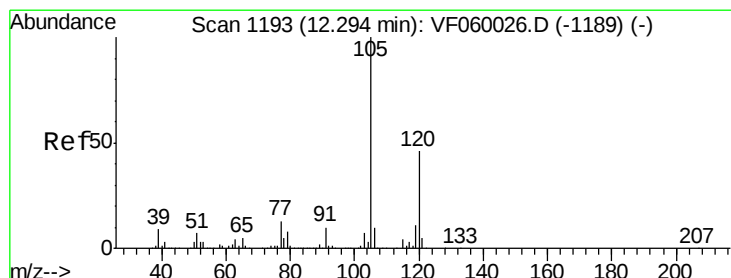
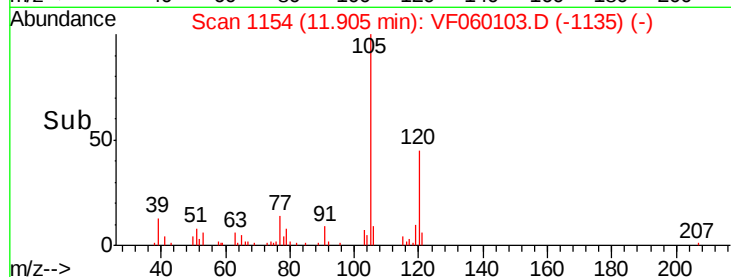
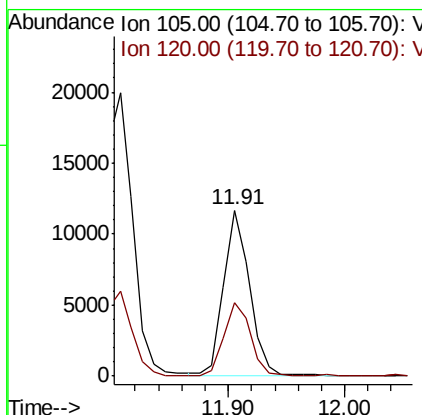
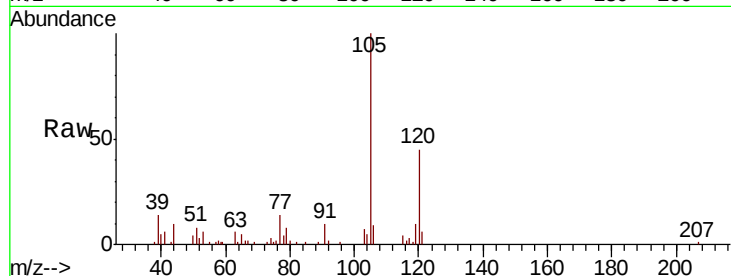




#80
 1,3,5-Trimethylbenzene
 Concen: 2.67 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. -0.01 min
 Lab File: VF060103.D
 Acq: 24 Aug 2018 16:43

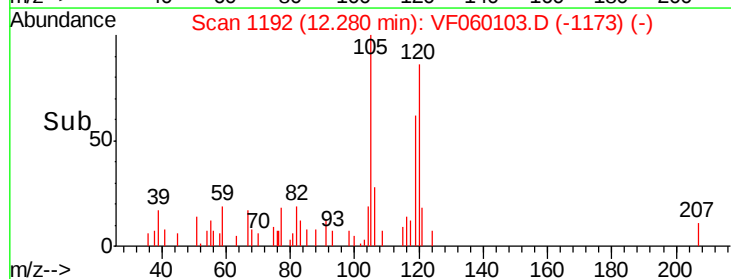
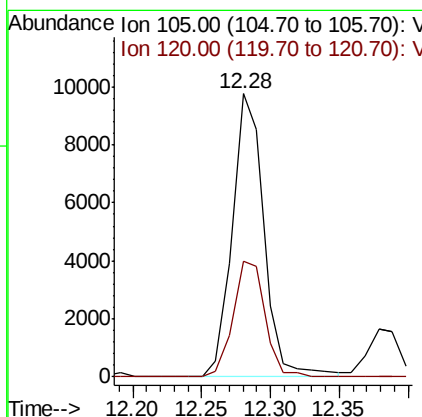
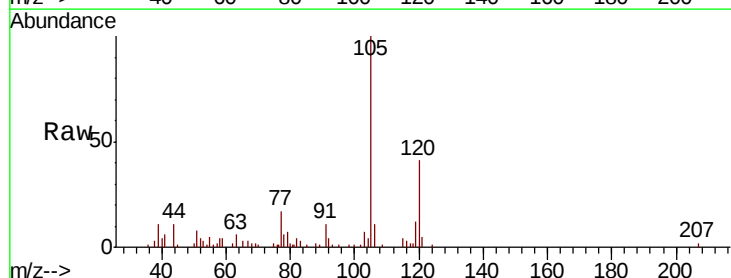
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q3-D4

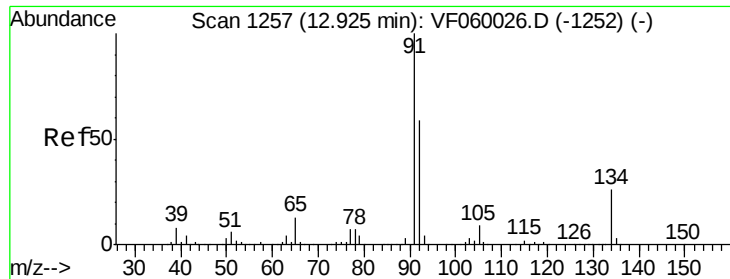
Tot Ion:105 Resp: 18322
 Ion Ratio Lower Upper
 105 100
 120 44.5 23.8 71.5



#84
 1,2,4-Trimethylbenzene
 Concen: 2.14 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: VF060103.D
 Acq: 24 Aug 2018 16:43

Tgt Ion:105 Resp: 15637
 Ion Ratio Lower Upper
 105 100
 120 41.0 23.3 69.8

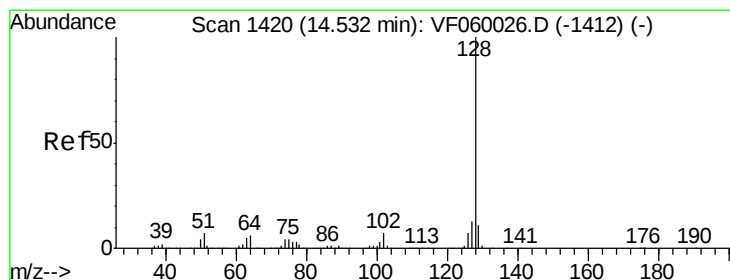
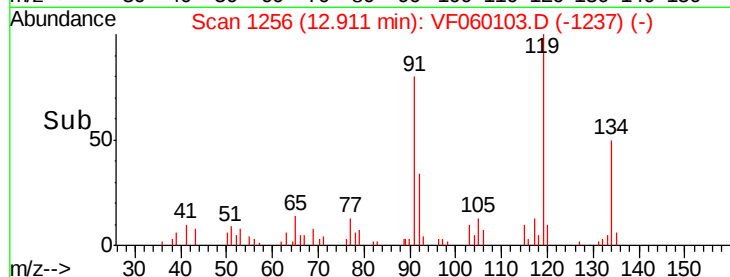
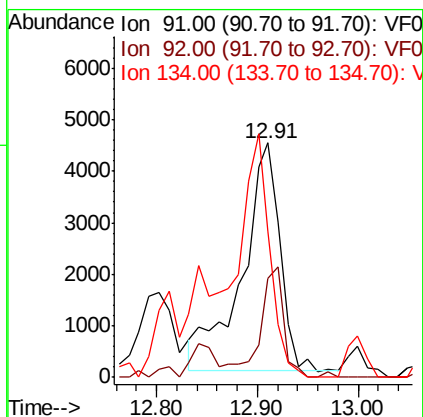
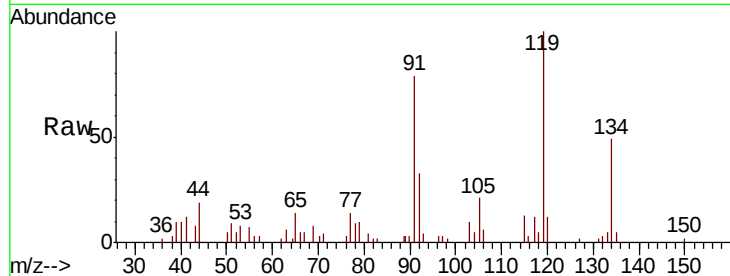




#89
n-Butylbenzene
Concen: 1.54 ug/l
RT: 12.91 min Scan# 1256
Delta R.T. -0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q3-D4

Tot Ion: 91 Resp: 11584
Ion Ratio Lower Upper
91 100
92 42.3 29.3 87.9
134 62.4 12.8 38.3#



#95
Naphthalene
Concen: 2.82 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.01 min
Lab File: VF060103.D
Acq: 24 Aug 2018 16:43

Tgt Ion: 128 Resp: 2730
Ion Ratio Lower Upper
128 100
127 17.5 10.4 15.6#
129 28.0 8.5 12.7#

