

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092618\
 Data File : VF060357.D
 Acq On : 26 Sep 2018 17:44
 Operator : VA/AP
 Sample : J5070-04RE
 Misc : 5.43/5mL/MSVOA F/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-RBR-200031

Quant Time: Sep 27 03:06:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	359792	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	624959	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	510351	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	255251	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	276014	56.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.94%	
35) Dibromofluoromethane	4.28	113	293421	52.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
50) Toluene-d8	7.70	98	680649	46.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.82%	
62) 4-Bromofluorobenzene	11.51	95	289219	46.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.24%	

Target Compounds

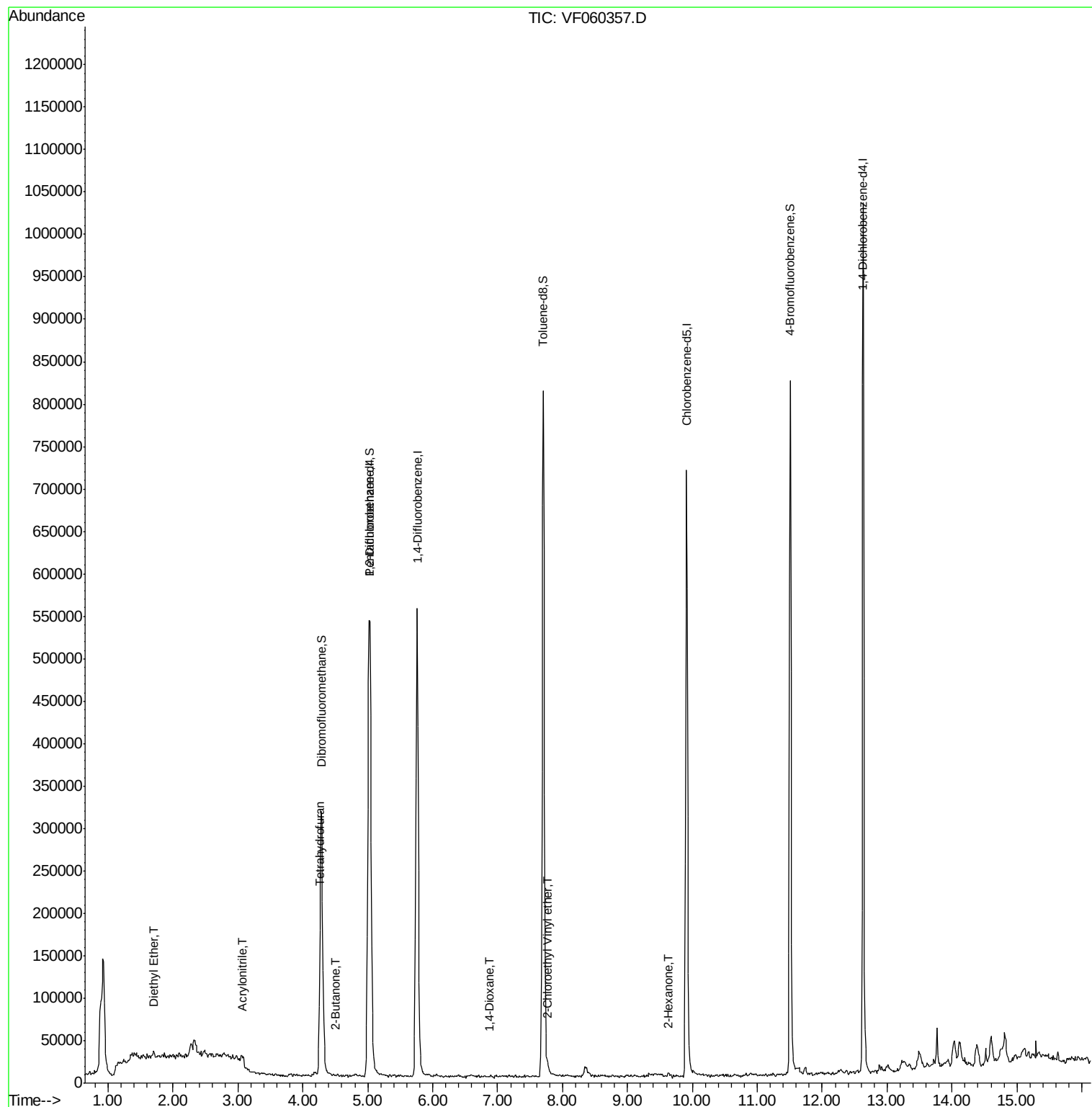
					Qvalue
2) Dichlorodifluoromethane	1.00	85	619	Below Cal	# 40
5) Bromomethane	1.40	94	667	Below Cal	# 92
8) Diethyl Ether	1.70	74	2824	1.823 ug/l	# 95
11) Tert butyl alcohol	2.66	59	603	Below Cal	# 1
13) Acrolein	2.12	56	1051	Below Cal	# 91
15) Acrylonitrile	3.06	53	1687	2.466 ug/l	# 61
17) Carbon Disulfide	1.86	76	203	Below Cal	# 1
20) Methylene Chloride	2.27	84	7396	Below Cal	# 79
25) 2-Butanone	4.50	43	2239	1.219 ug/l	# 56
29) Tetrahydrofuran	4.25	42	3678	5.469 ug/l	# 87
49) 1,4-Dioxane	6.87	88	177	7.108 ug/l	# 1
58) 2-Chloroethyl Vinyl ether	7.78	63	1386	3.825 ug/l	# 100
59) 2-Hexanone	9.62	43	5302	2.433 ug/l	# 95
78) n-propylbenzene	11.69	91	2345	Below Cal	# 57
85) sec-Butylbenzene	12.39	105	1294	Below Cal	# 93
86) p-Isopropyltoluene	12.54	119	1180	Below Cal	# 1
89) n-Butylbenzene	12.92	91	3128	Below Cal	# 81

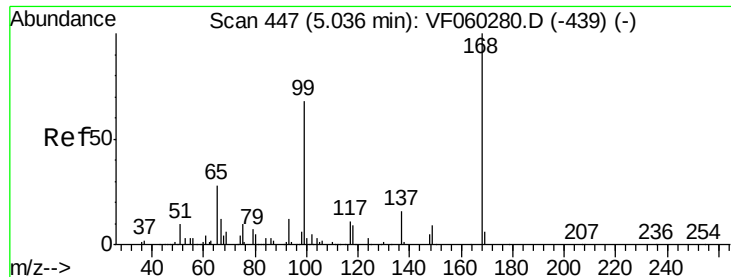
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF060357.D

Acq: 26 Sep 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

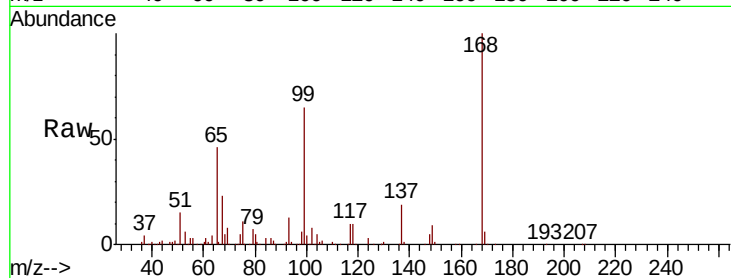
CS-RBR-200031

Tot Ion:168 Resp: 359792

Ion Ratio Lower Upper

168 100

99 64.9 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

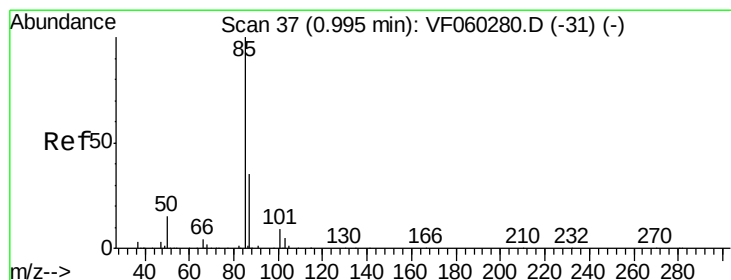
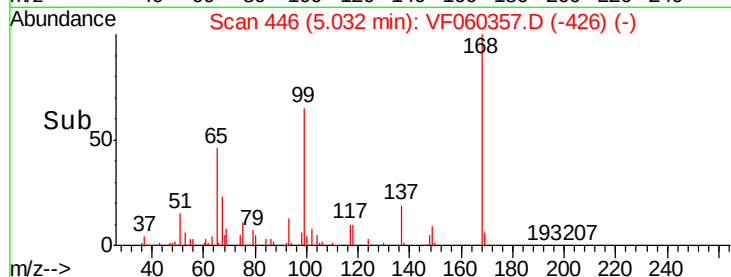
5.03

100000

50000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060357.D

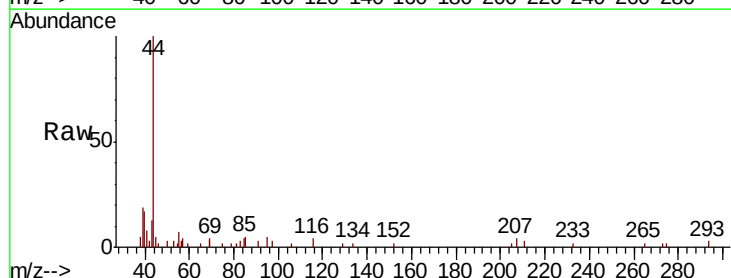
Acq: 26 Sep 2018 17:44

Tgt Ion: 85 Resp: 619

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

500

400

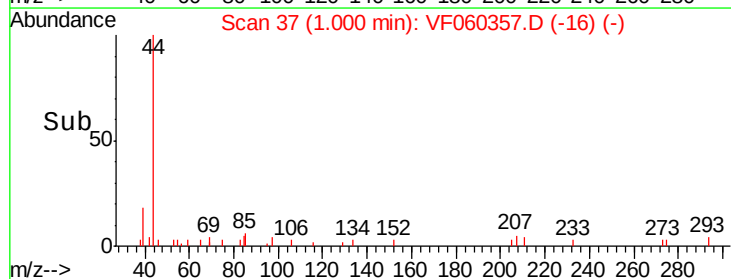
300

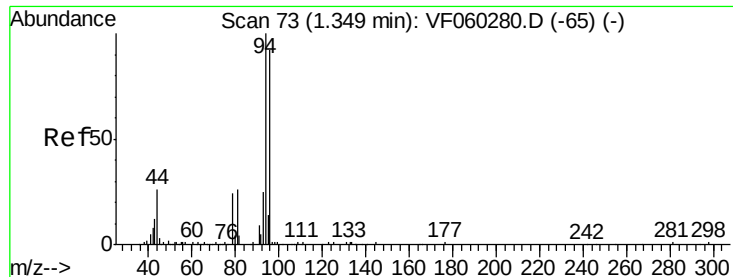
200

100

0

Time--> 0.95 1.00 1.05





#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 78

Delta R.T. 0.06 min

Lab File: VF060357.D

Acq: 26 Sep 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

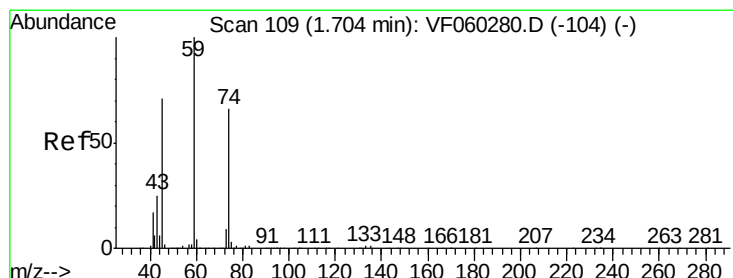
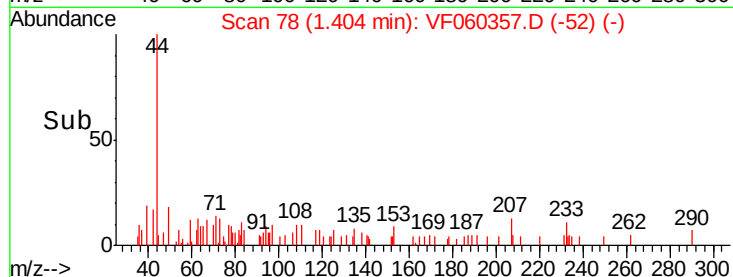
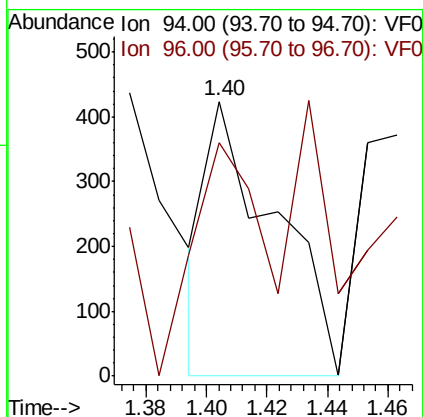
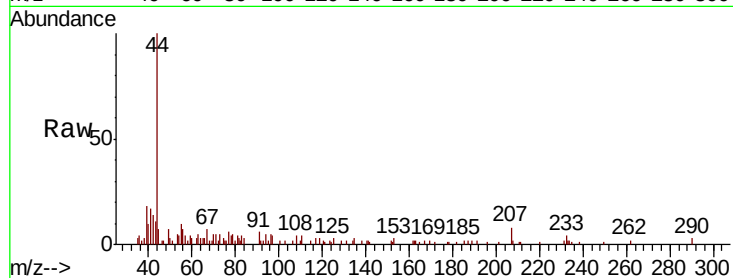
CS-RBR-200031

Tot Ion: 94 Resp: 667

Ion Ratio Lower Upper

94 100

96 84.9 73.9 110.9



#8

Diethyl Ether

Concen: 1.823 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.00 min

Lab File: VF060357.D

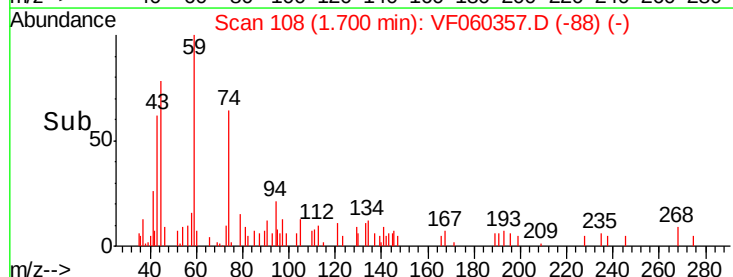
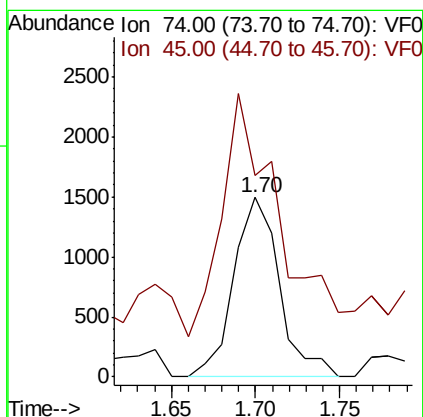
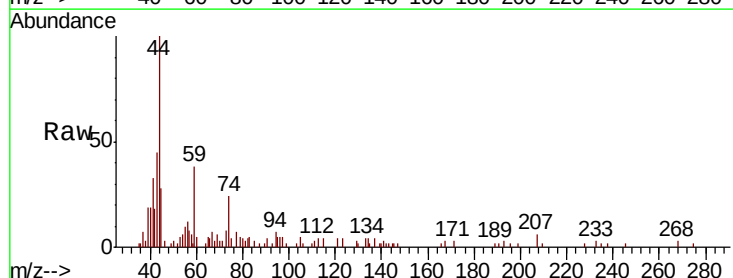
Acq: 26 Sep 2018 17:44

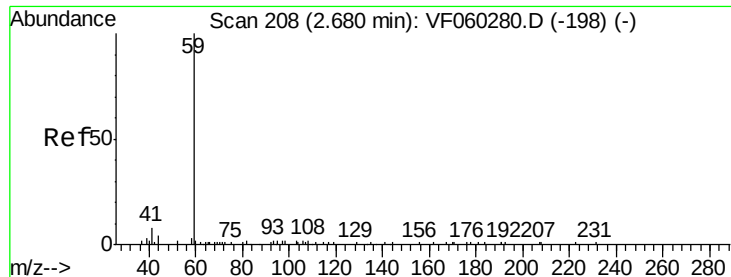
Tgt Ion: 74 Resp: 2824

Ion Ratio Lower Upper

74 100

45 112.6 53.9 161.7



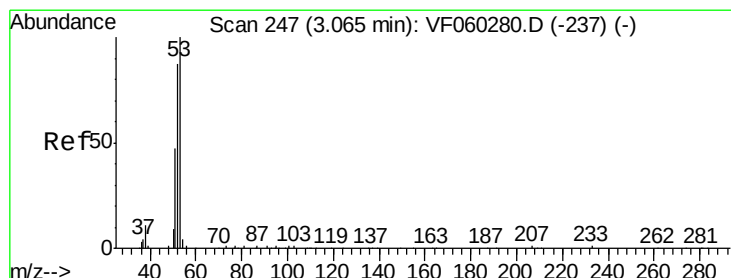
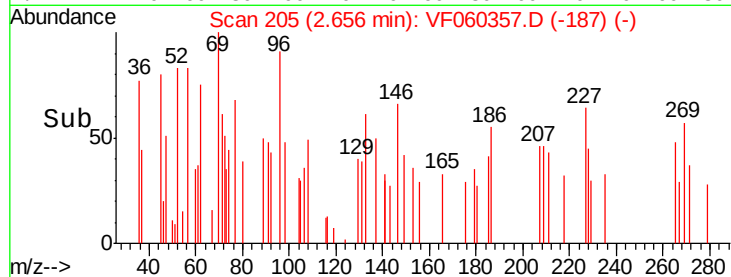
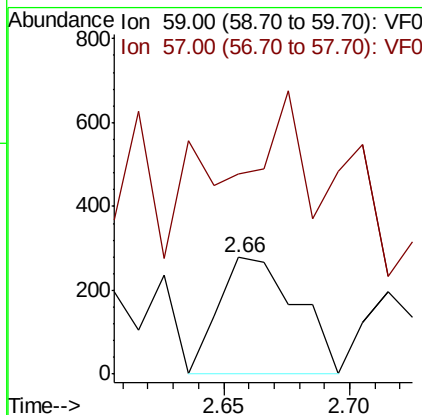
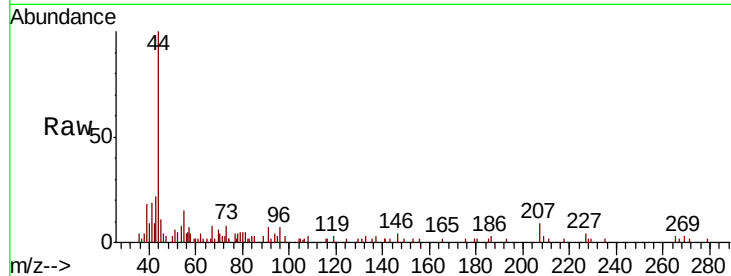


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.66 min Scan# 205
 Delta R.T. -0.02 min
 Lab File: VF060357.D
 Acq: 26 Sep 2018 17:44

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-RBR-200031

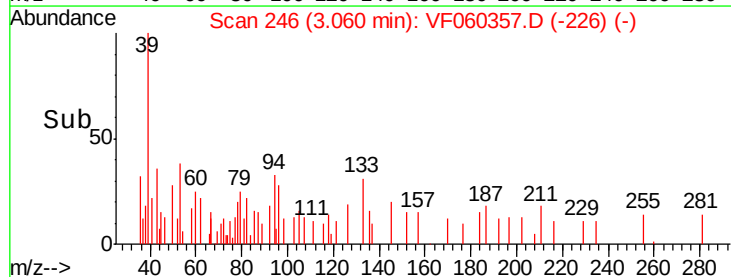
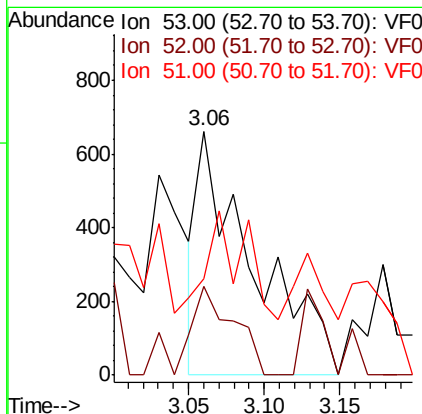
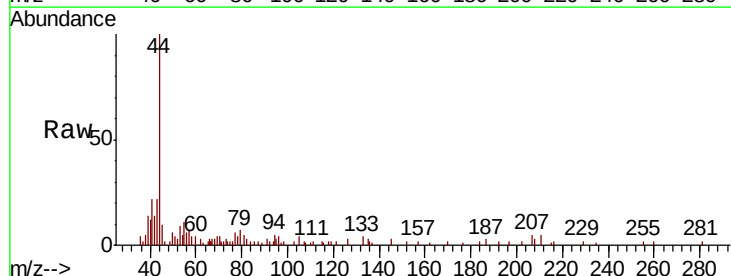
Tot Ion: 59 Resp: 603
 Ion Ratio Lower Upper
 59 100
 57 171.0 12.4 18.6#

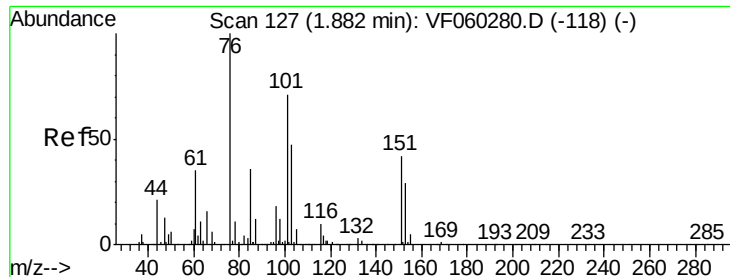


#15

Acrylonitrile
 Concen: 2.466 ug/l
 RT: 3.06 min Scan# 246
 Delta R.T. -0.00 min
 Lab File: VF060357.D
 Acq: 26 Sep 2018 17:44

Tgt Ion: 53 Resp: 1687
 Ion Ratio Lower Upper
 53 100
 52 36.5 69.5 104.3#
 51 39.8 38.1 57.1

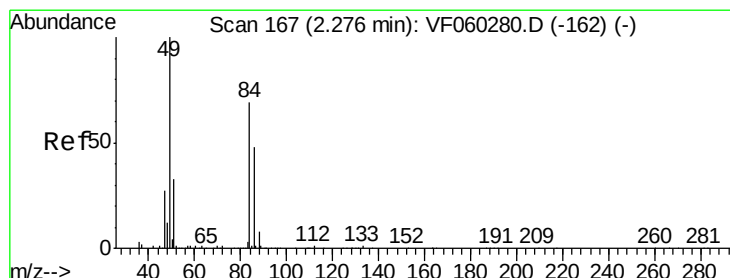
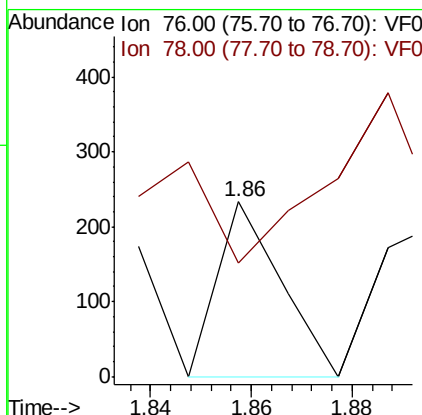
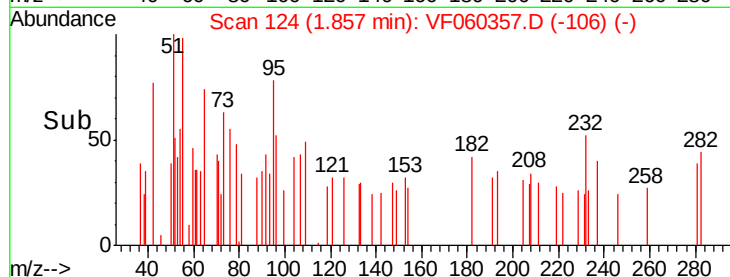
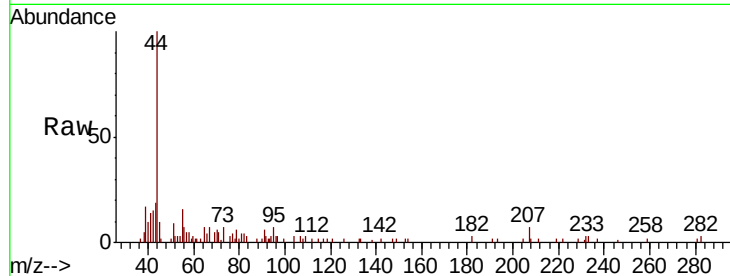




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.86 min Scan# 124
Delta R.T. -0.02 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

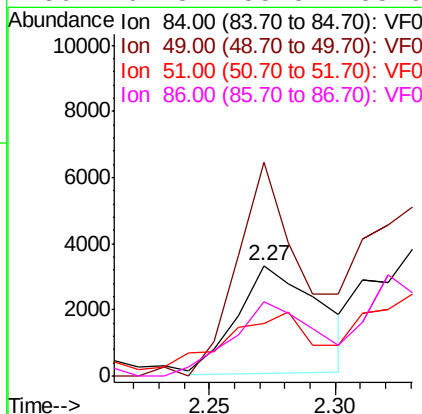
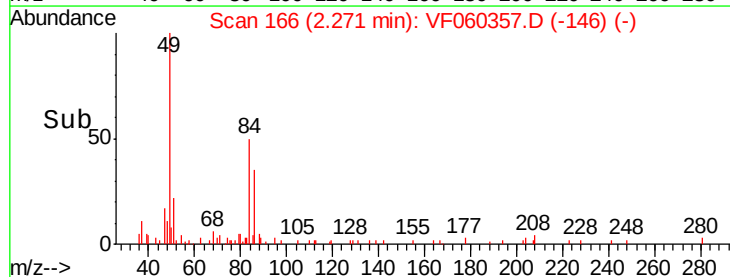
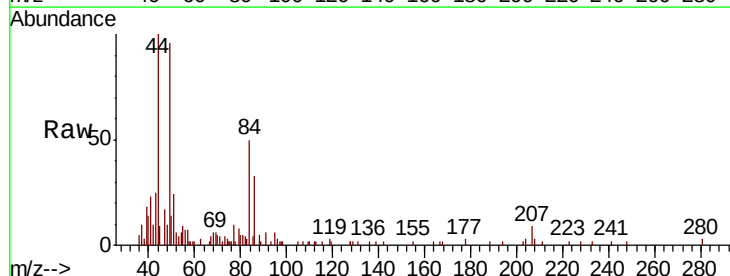
Instrument :
MSVOA_F
ClientSampleId :
CS-RBR-200031

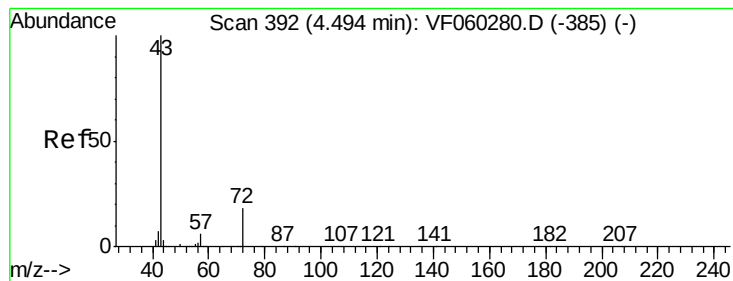
Tot Ion: 76 Resp: 203
Ion Ratio Lower Upper
76 100
78 65.2 9.4 14.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.00 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

Tgt Ion: 84 Resp: 7396
Ion Ratio Lower Upper
84 100
49 194.0 118.3 177.5#
51 48.3 38.7 58.1
86 67.3 55.8 83.6





#25

2-Butanone

Concen: 1.219 ug/l

RT: 4.50 min Scan# 392

Delta R.T. 0.01 min

Lab File: VF060357.D

Acq: 26 Sep 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

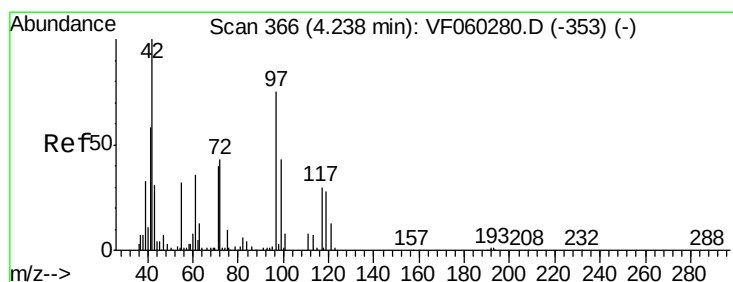
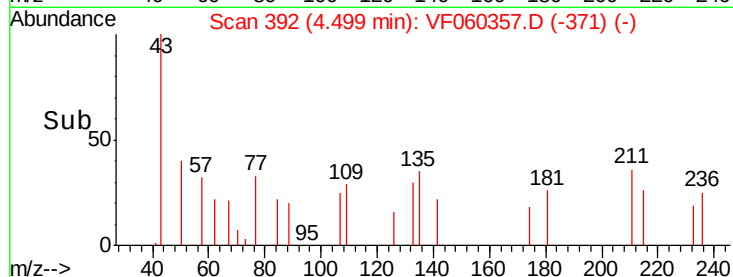
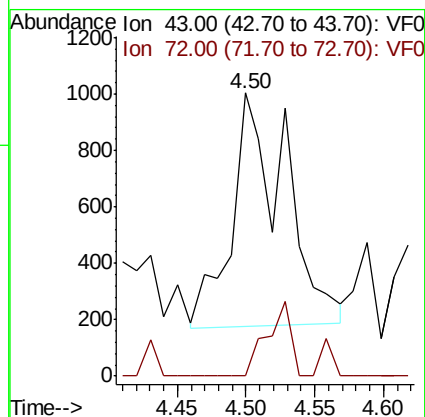
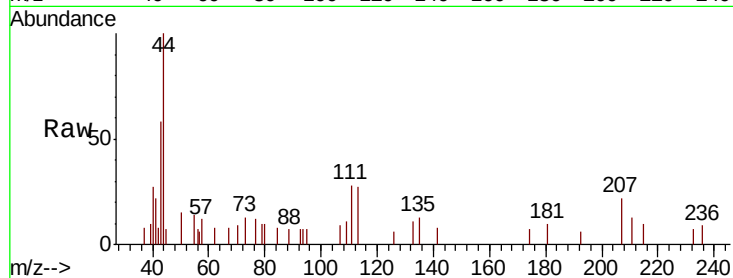
CS-RBR-200031

Tot Ion: 43 Resp: 2239

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: 5.469 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.02 min

Lab File: VF060357.D

Acq: 26 Sep 2018 17:44

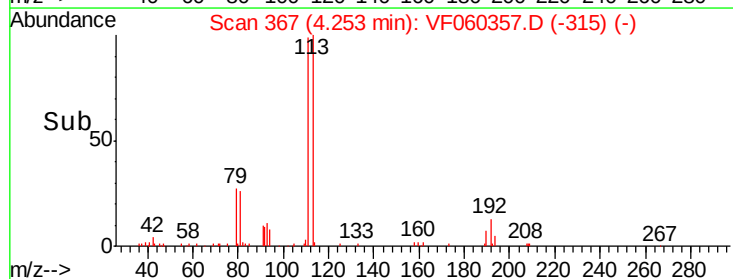
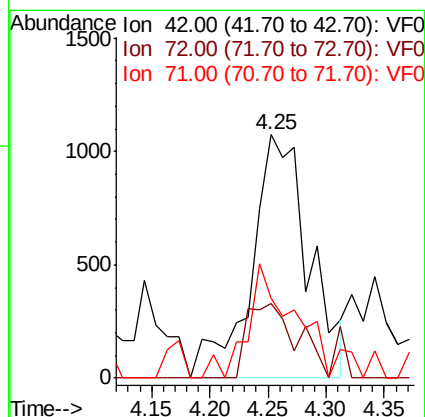
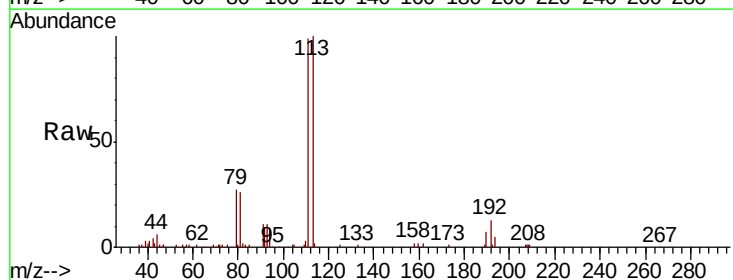
Tgt Ion: 42 Resp: 3678

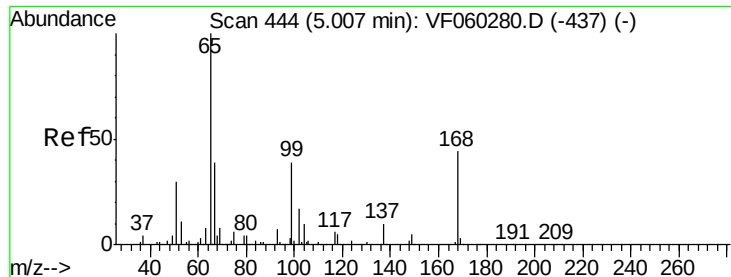
Ion Ratio Lower Upper

42 100

72 26.8 32.6 49.0#

71 43.3 32.7 49.1

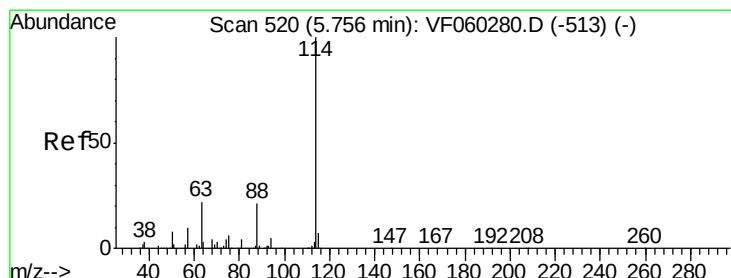
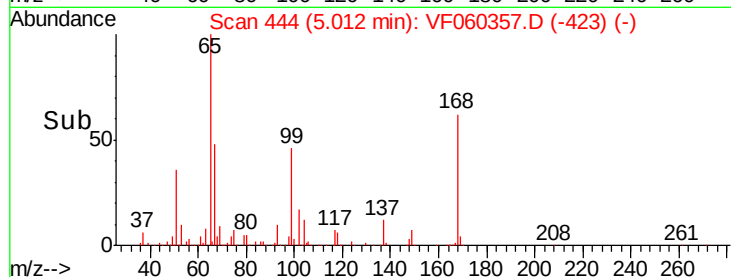
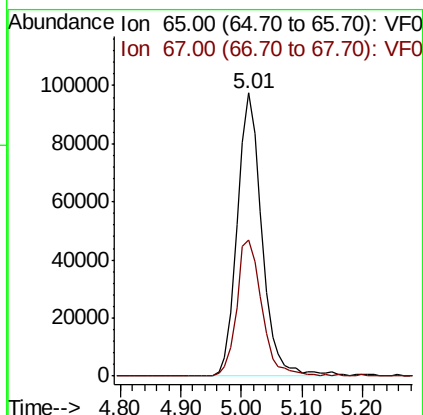
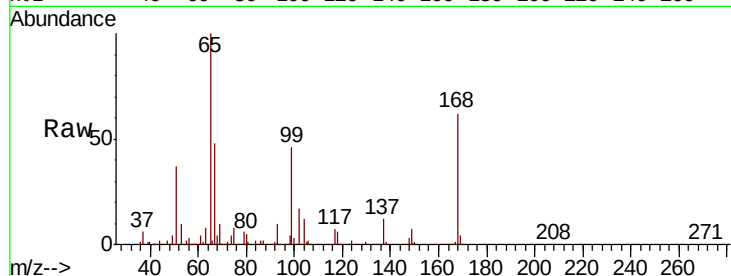




#33
 1,2-Dichloroethane-d4
 Concen: 56.972 ug/l
 RT: 5.01 min Scan# 444
 Delta R.T. 0.01 min
 Lab File: VF060357.D
 Acq: 26 Sep 2018 17:44

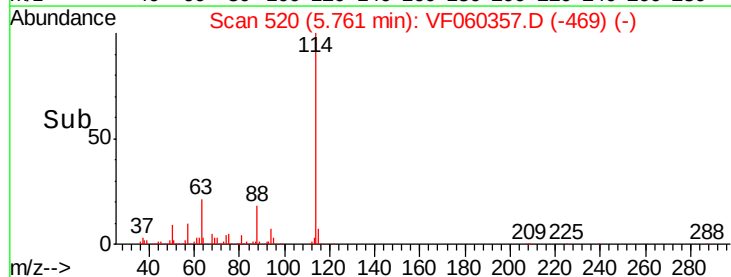
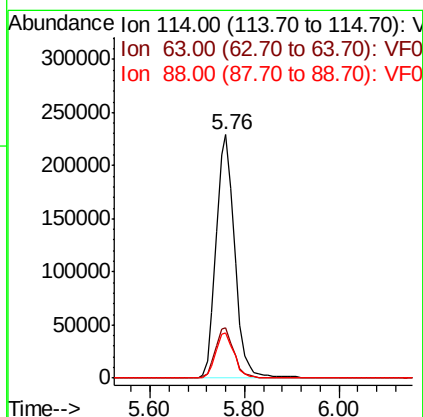
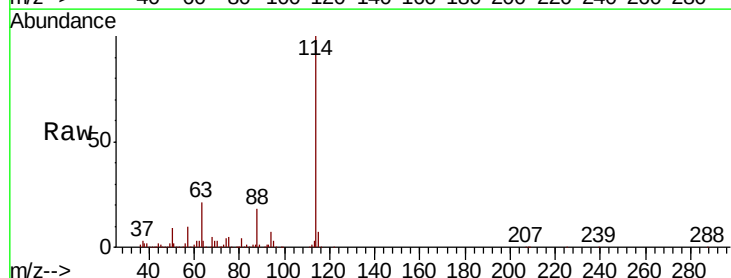
Instrument :
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 CS-RBR-200031

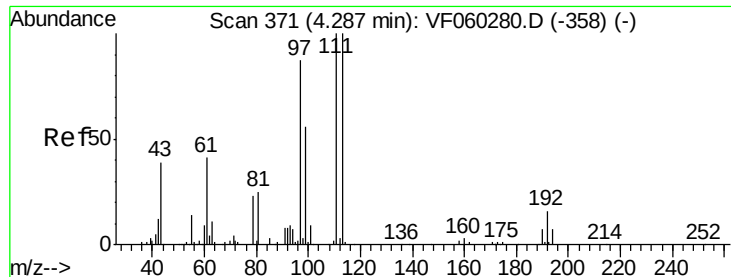
Tot Ion: 65 Resp: 276014
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 94.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 520
 Delta R.T. 0.01 min
 Lab File: VF060357.D
 Acq: 26 Sep 2018 17:44

Tgt Ion: 114 Resp: 624959
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 43.8
 88 18.4 0.0 41.2





#35

Dibromofluoromethane

Concen: 52.669 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF060357.D

Acq: 26 Sep 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

CS-RBR-200031

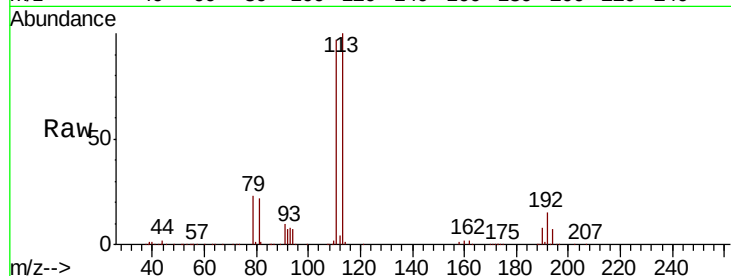
Tot Ion:113 Resp: 293421

Ion Ratio Lower Upper

113 100

111 97.1 79.6 119.4

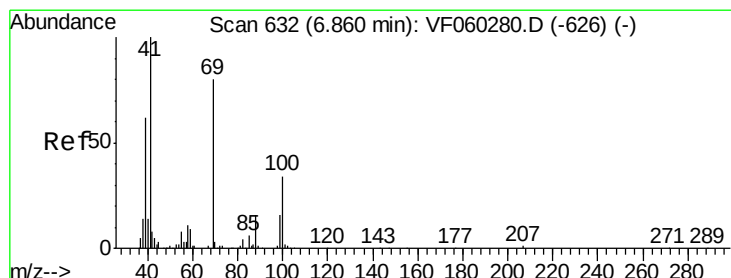
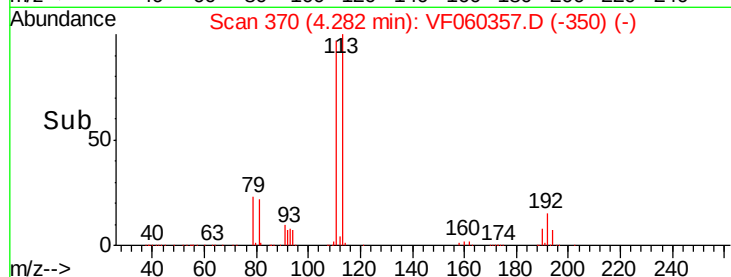
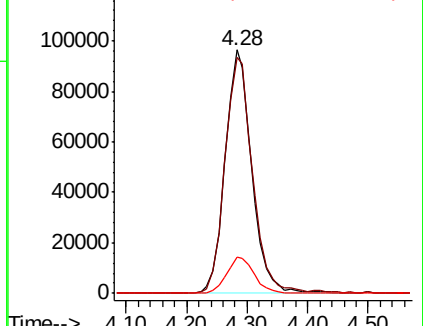
192 15.1 13.0 19.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 7.108 ug/l

RT: 6.87 min Scan# 633

Delta R.T. 0.02 min

Lab File: VF060357.D

Acq: 26 Sep 2018 17:44

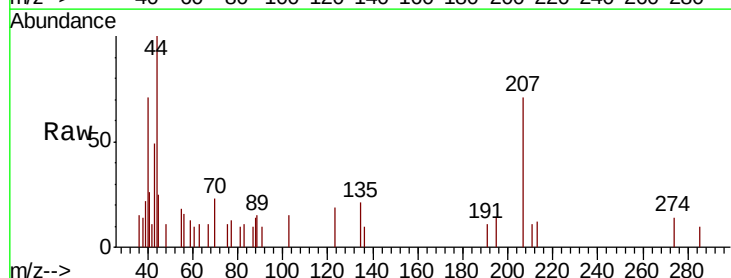
Tgt Ion: 88 Resp: 177

Ion Ratio Lower Upper

88 100

43 174.9 40.2 60.4#

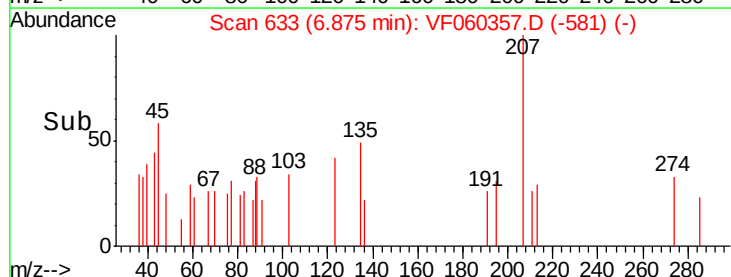
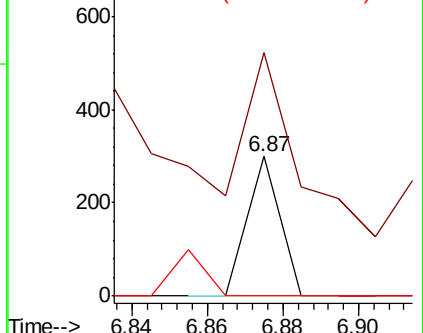
58 0.0 56.7 85.1#

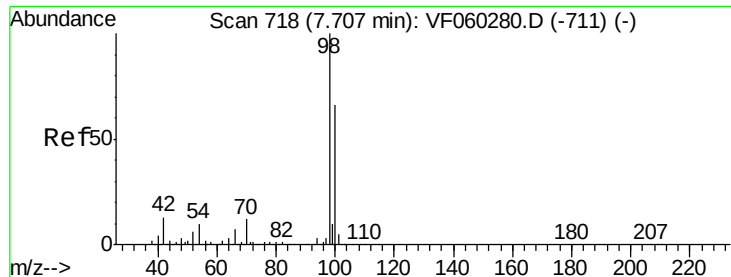


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

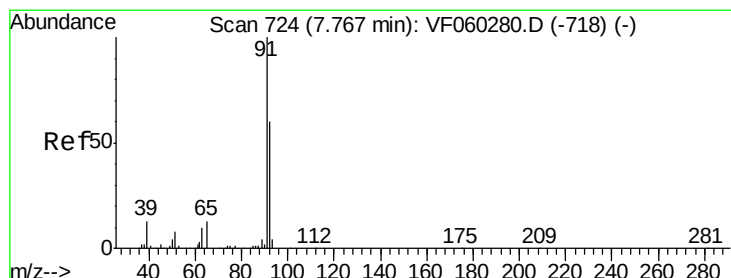
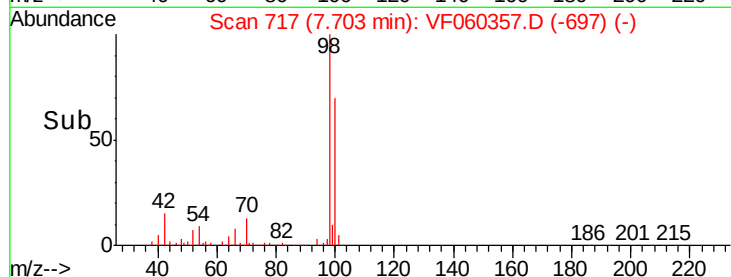
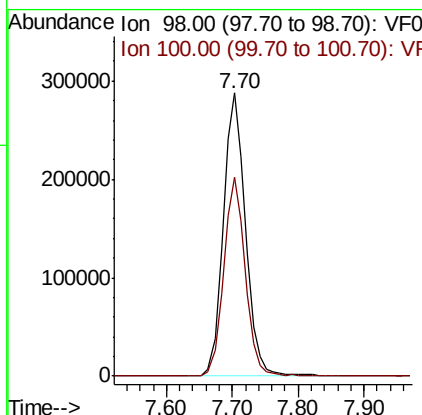
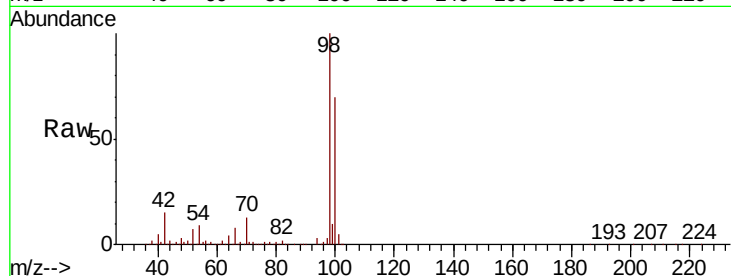




#50
Toluene-d8
Concen: 46.915 ug/l
RT: 7.70 min Scan# 717
Delta R.T. -0.00 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

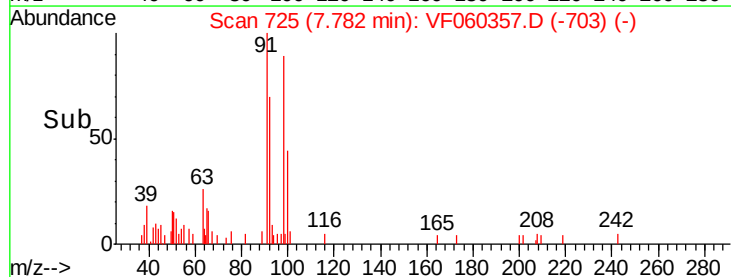
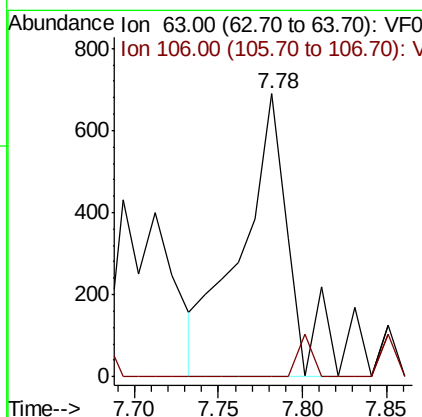
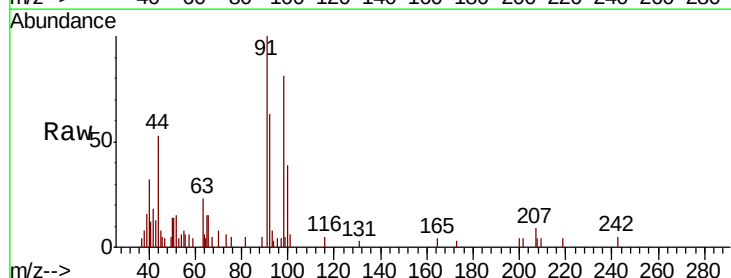
Instrument :
MSVOA_F
ClientSampleId :
CS-RBR-200031

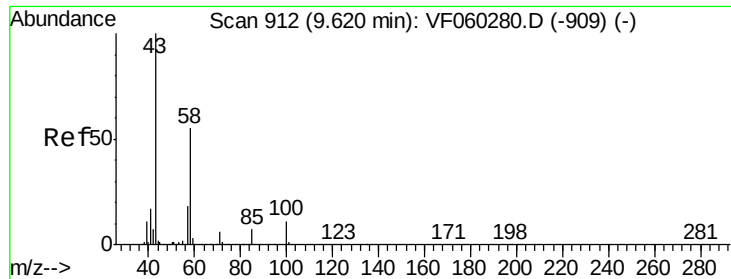
Tot Ion: 98 Resp: 680649
Ion Ratio Lower Upper
98 100
100 70.4 53.0 79.6



#58
2-Chloroethyl Vinyl ether
Concen: 3.825 ug/l
RT: 7.78 min Scan# 725
Delta R.T. 0.02 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

Tgt Ion: 63 Resp: 1386
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

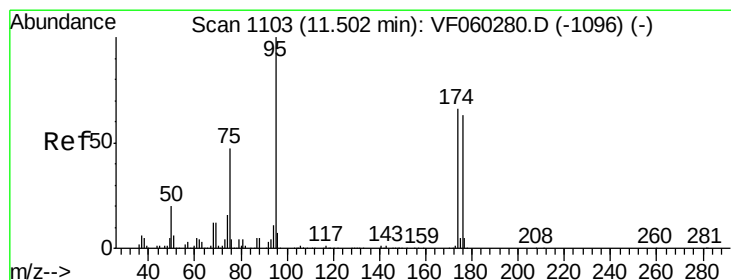
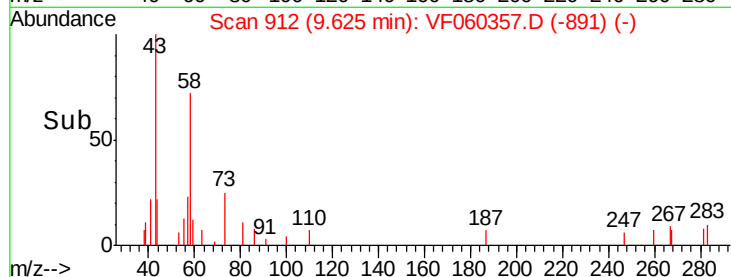
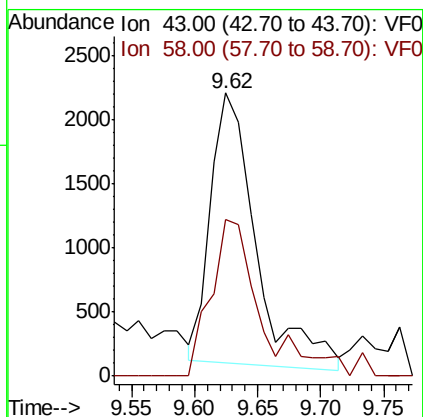
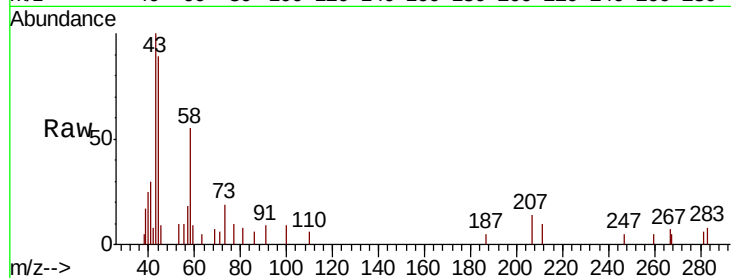




#59
2-Hexanone
Concen: 2.433 ug/l
RT: 9.62 min Scan# 912
Delta R.T. 0.01 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

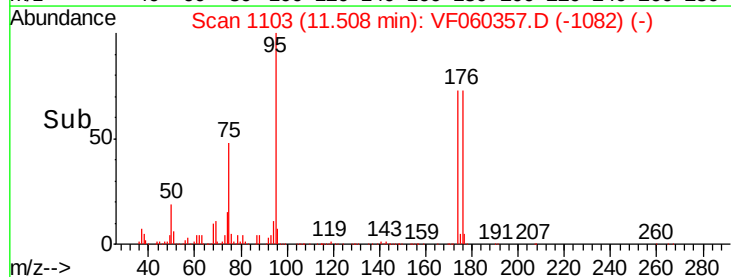
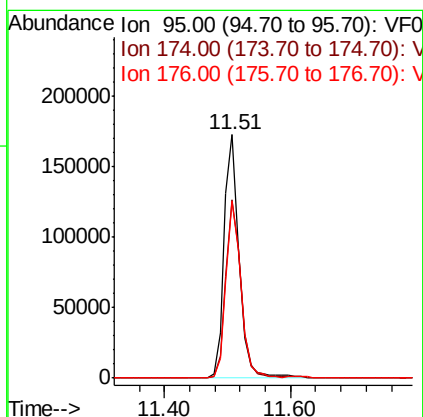
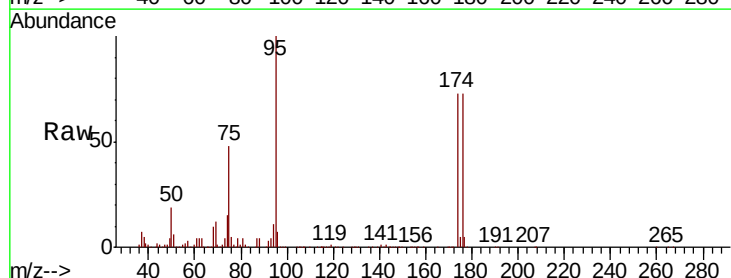
Instrument :
MSVOA_F
ClientSampleId :
CS-RBR-200031

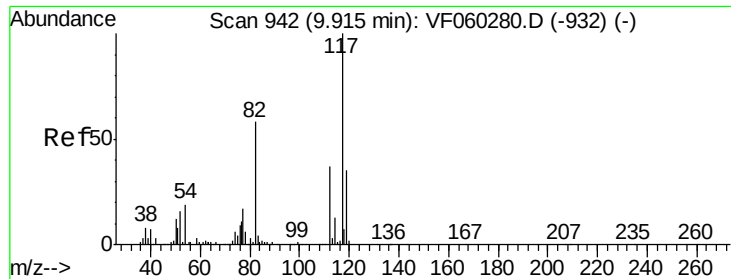
Tot Ion: 43 Resp: 5302
Ion Ratio Lower Upper
43 100
58 55.3 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 46.117 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

Tgt Ion: 95 Resp: 289219
Ion Ratio Lower Upper
95 100
174 73.3 0.0 131.2
176 72.8 0.0 126.6

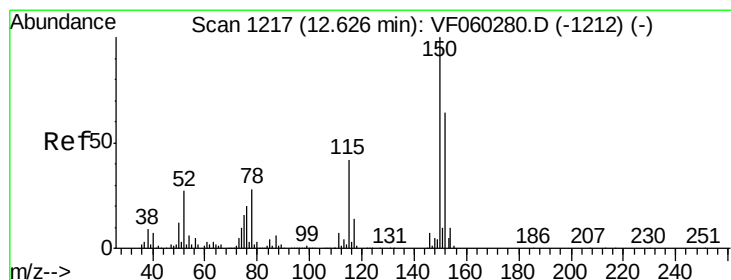
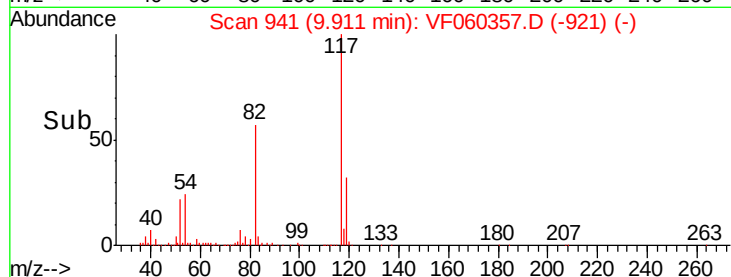
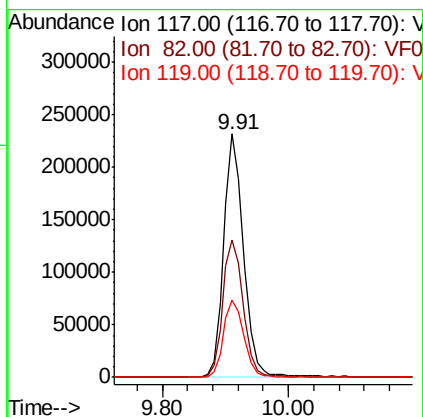
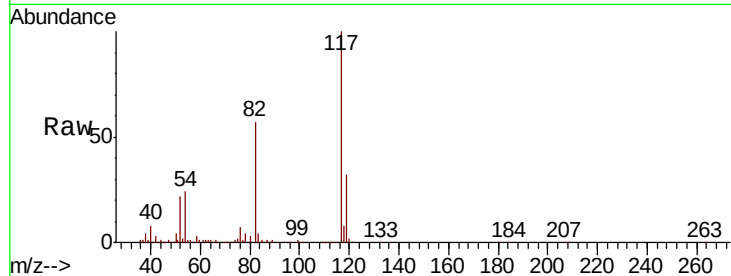




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.00 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

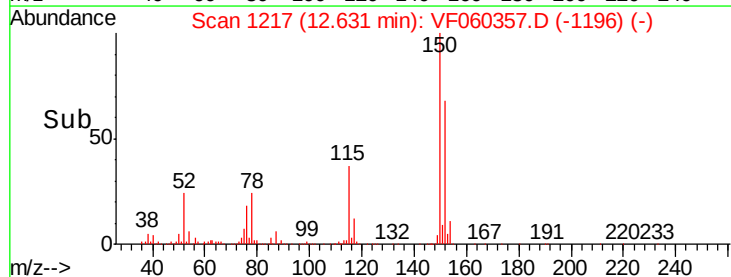
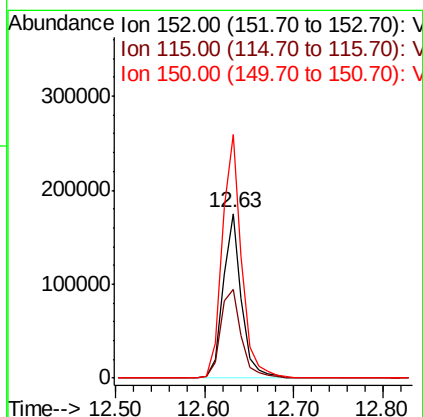
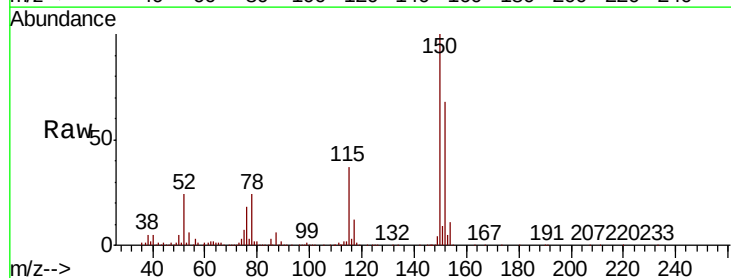
Instrument :
MSVOA_F
ClientSampleId :
CS-RBR-200031

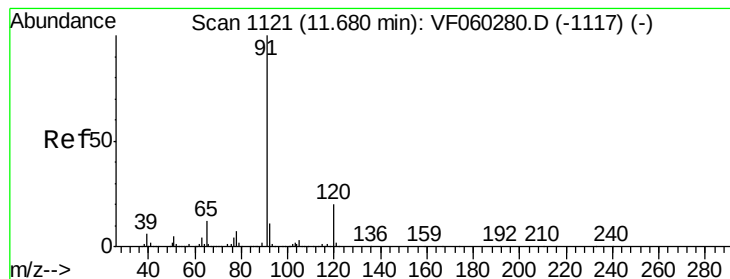
Tot Ion:117 Resp: 510351
Ion Ratio Lower Upper
117 100
82 56.7 46.2 69.2
119 31.6 27.8 41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VF060357.D
Acq: 26 Sep 2018 17:44

Tgt Ion:152 Resp: 255251
Ion Ratio Lower Upper
152 100
115 54.3 32.6 97.8
150 148.0 0.0 314.2





#78

n-propylbenzene

Concen: Below Cal

RT: 11.69 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF060357.D

Acq: 26 Sep 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

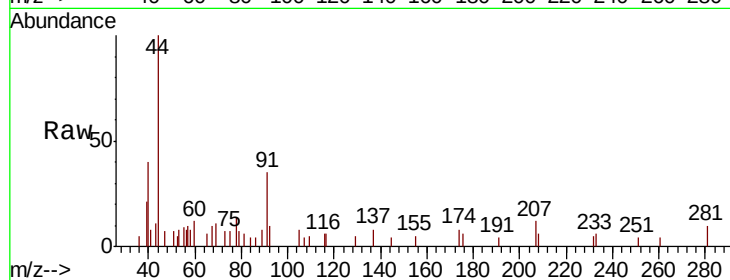
CS-RBR-200031

Tot Ion: 91 Resp: 2345

Ion Ratio Lower Upper

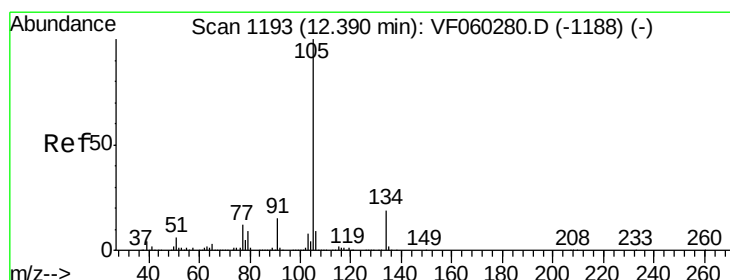
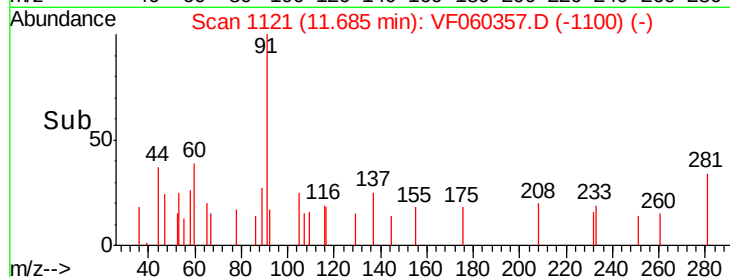
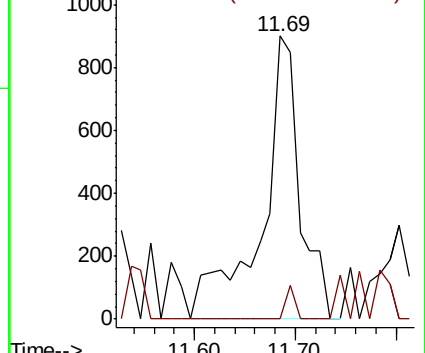
91 100

120 0.0 10.0 29.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.39 min Scan# 1192

Delta R.T. -0.00 min

Lab File: VF060357.D

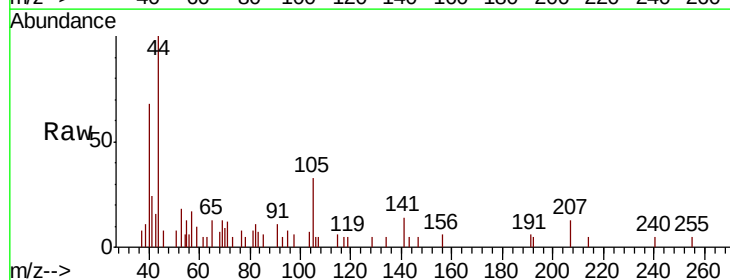
Acq: 26 Sep 2018 17:44

Tgt Ion:105 Resp: 1294

Ion Ratio Lower Upper

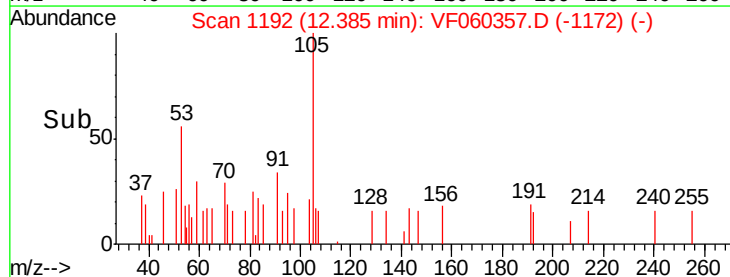
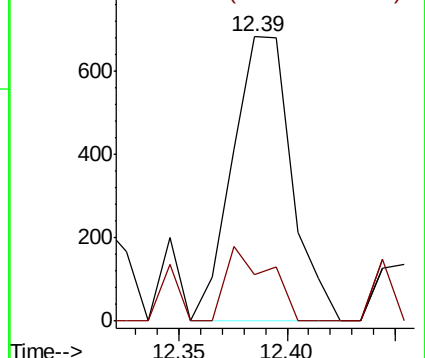
105 100

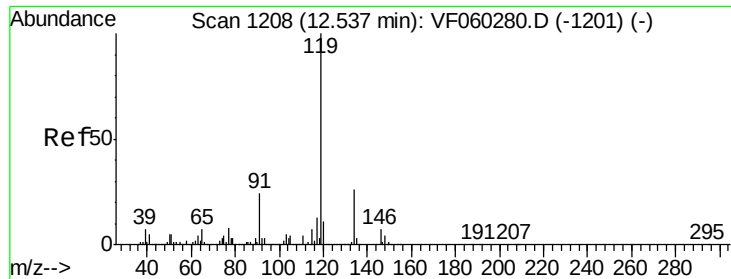
134 16.1 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.01 min
 Lab File: VF060357.D
 Acq: 26 Sep 2018 17:44

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-RBR-200031

Tot Ion	Ratio	Lower	Upper
119	100		
134	69.8	12.9	38.7#
91	95.8	11.9	35.7#

