

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF092518\
 Data File : VF060333.D
 Acq On : 25 Sep 2018 19:08
 Operator : VA/AP
 Sample : J4774-05
 Misc : 6.86/5mL/MSVOA_F/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-092418

Quant Time: Sep 26 01:46:54 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	299980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	515712	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	443100	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	209103	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	215460	53.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.68%	
35) Dibromofluoromethane	4.27	113	206769	44.98	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	89.96%	
50) Toluene-d8	7.69	98	499747	41.74	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	83.48%	
62) 4-Bromofluorobenzene	11.49	95	205744	39.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.52%	

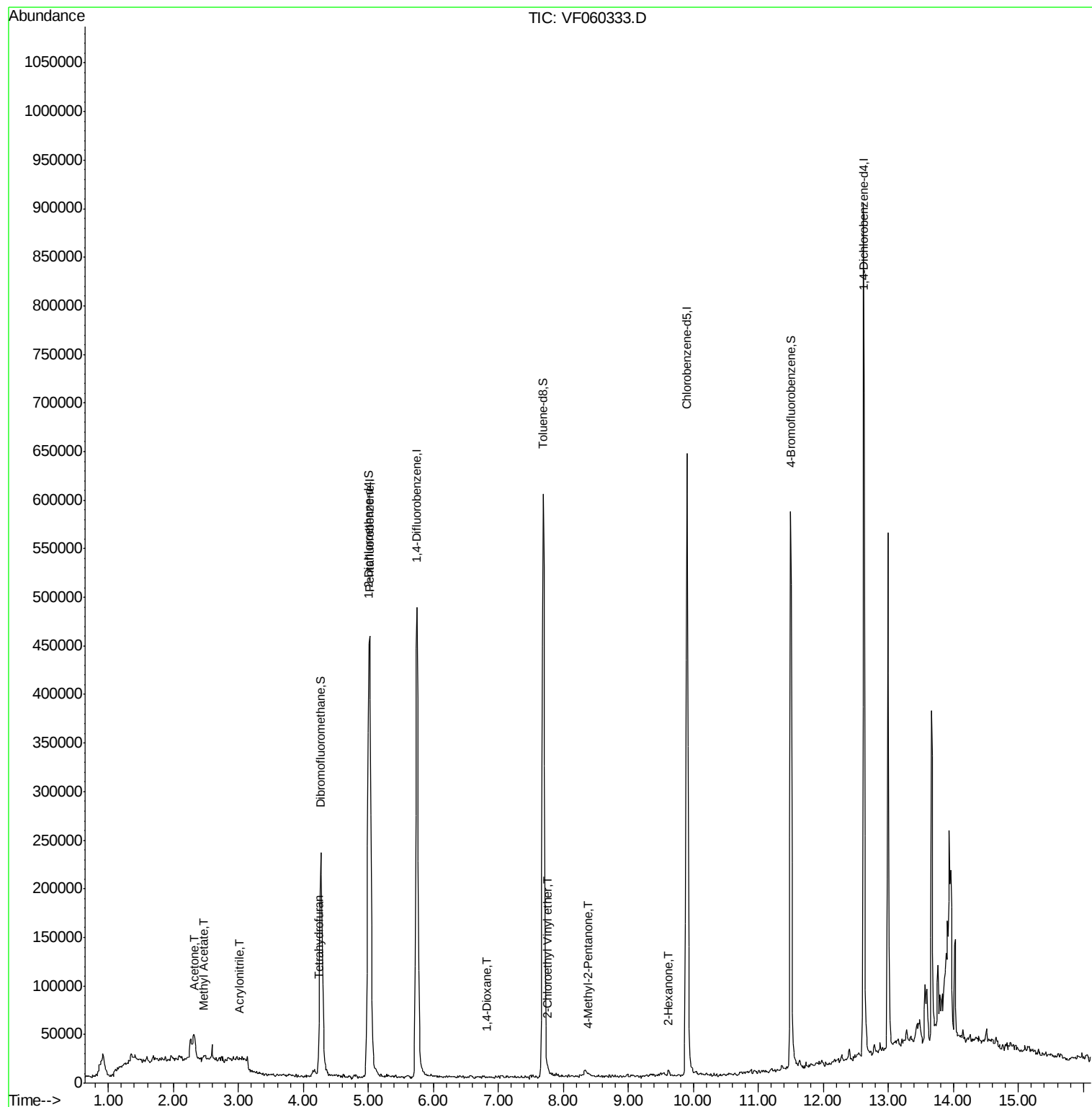
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	219	Below Cal	#	56
5) Bromomethane	1.50	94	162	Below Cal		93
11) Tert butyl alcohol	2.64	59	518	Below Cal	#	1
13) Acrolein	2.08	56	389	Below Cal		91
15) Acrylonitrile	3.03	53	1144	2.005	ug/l #	36
16) Acetone	2.33	43	24748	21.755	ug/l	94
17) Carbon Disulfide	1.86	76	286	Below Cal	#	10
18) Methyl Acetate	2.46	43	3630	1.915	ug/l #	84
20) Methylene Chloride	2.27	84	20982	Below Cal	#	85
29) Tetrahydrofuran	4.23	42	2001	3.569	ug/l #	68
49) 1,4-Dioxane	6.83	88	67	3.260	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	3714	1.471	ug/l #	82
58) 2-Chloroethyl Vinyl ether	7.76	63	402	1.344	ug/l	100
59) 2-Hexanone	9.61	43	5211	2.898	ug/l	77
78) n-propylbenzene	11.67	91	3331	Below Cal		89
85) sec-Butylbenzene	12.38	105	2483	Below Cal		91
86) p-Isopropyltoluene	12.53	119	2095	Below Cal	#	71
89) n-Butylbenzene	12.91	91	2655	Below Cal		78

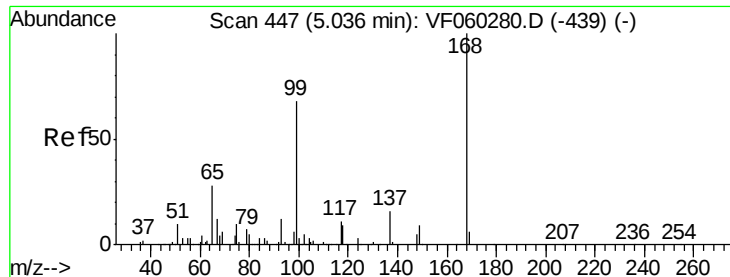
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

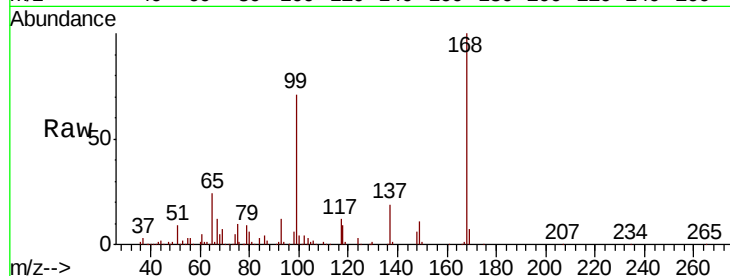
OK-03-092418

Tgt Ion:168 Resp: 299980

Ion Ratio Lower Upper

168 100

99 71.1 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

80000

60000

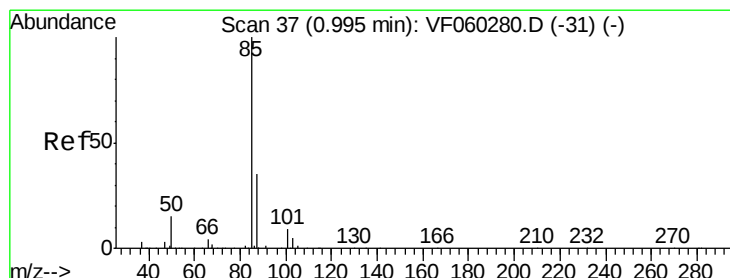
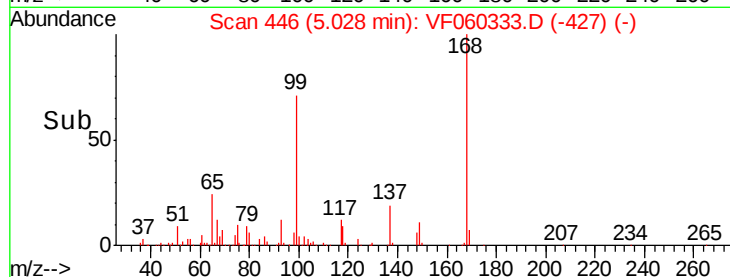
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 35

Delta R.T. -0.02 min

Lab File: VF060333.D

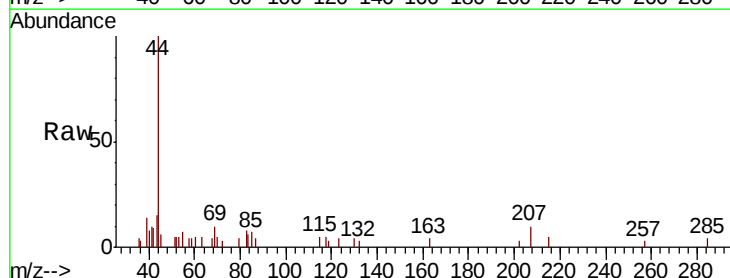
Acq: 25 Sep 2018 19:08

Tgt Ion: 85 Resp: 219

Ion Ratio Lower Upper

85 100

87 60.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

250

200

150

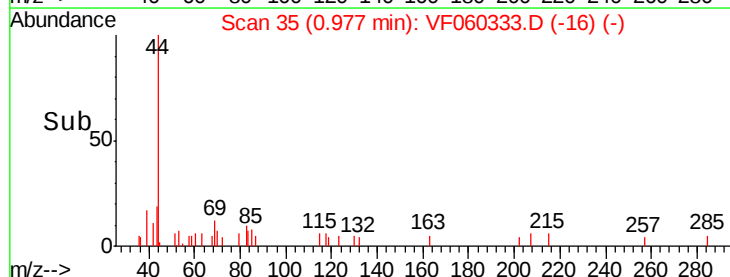
100

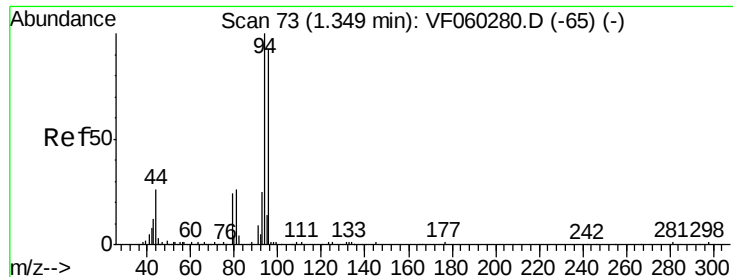
50

0

0.96 0.98 1.00 1.02

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.50 min Scan# 88

Delta R.T. 0.15 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

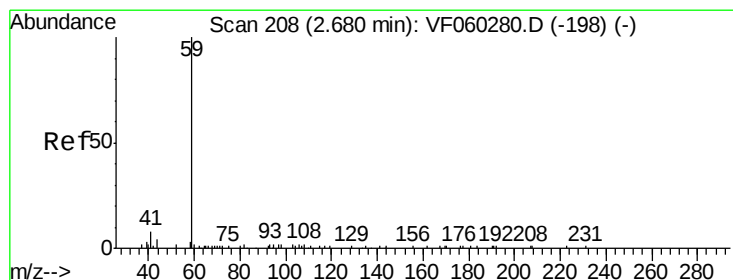
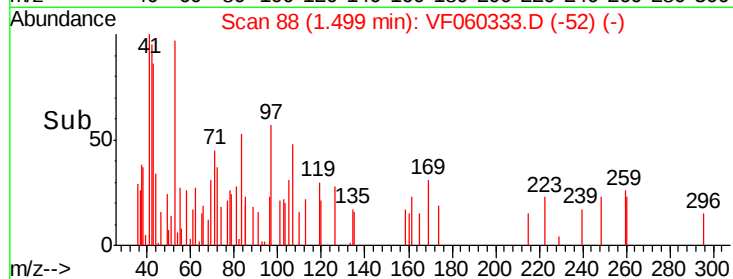
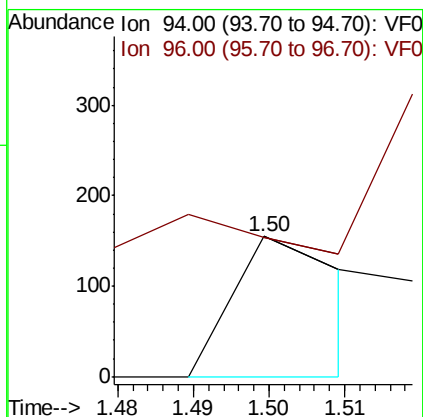
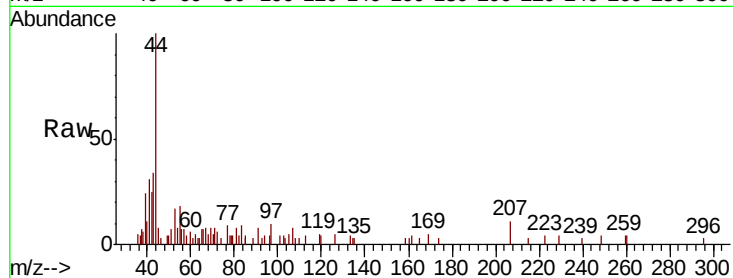
OK-03-092418

Tgt Ion: 94 Resp: 162

Ion Ratio Lower Upper

94 100

96 99.4 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.64 min Scan# 204

Delta R.T. -0.04 min

Lab File: VF060333.D

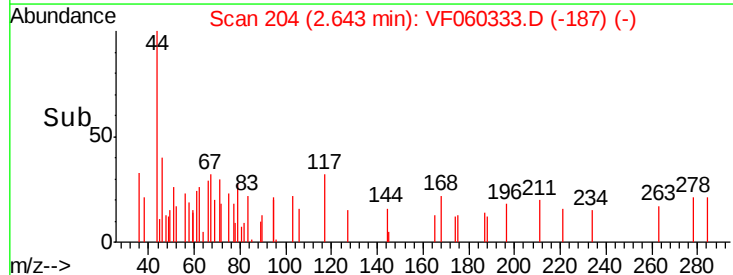
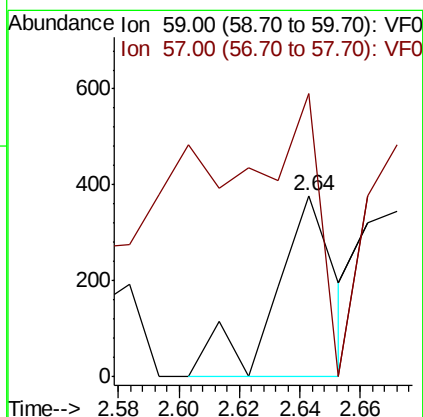
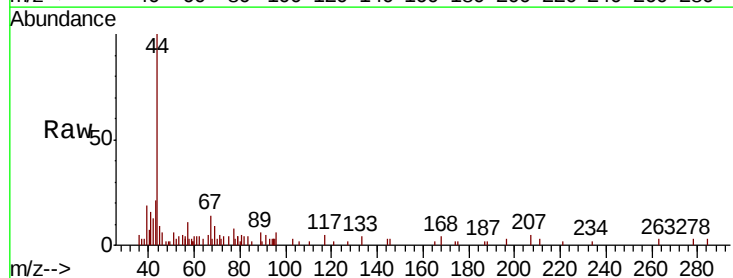
Acq: 25 Sep 2018 19:08

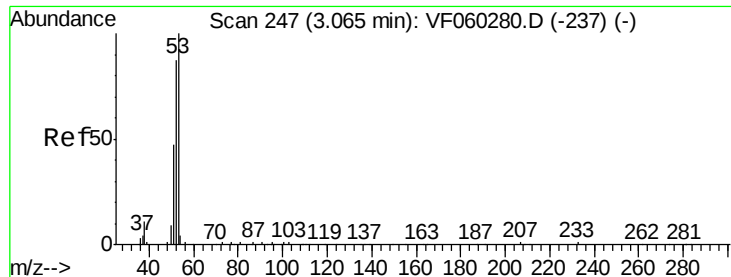
Tgt Ion: 59 Resp: 518

Ion Ratio Lower Upper

59 100

57 156.1 12.4 18.6#





#15

Acrylonitrile

Concen: 2.005 ug/l

RT: 3.03 min Scan# 243

Delta R.T. -0.04 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

OK-03-092418

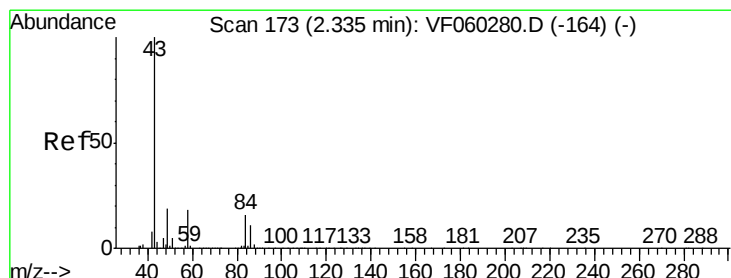
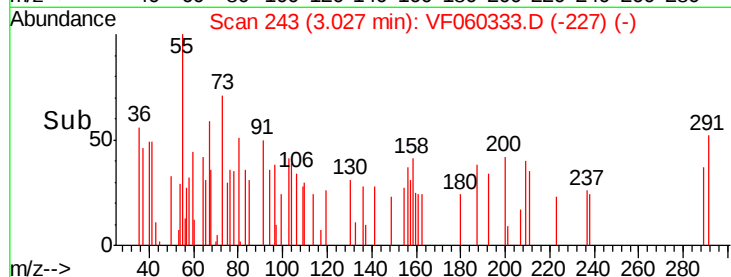
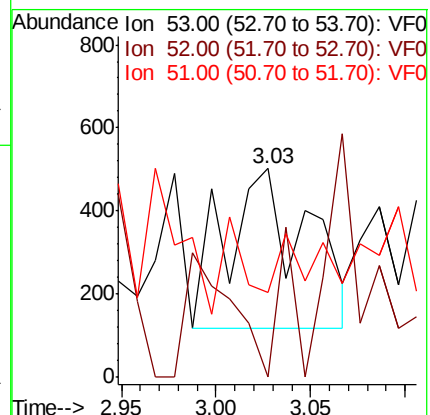
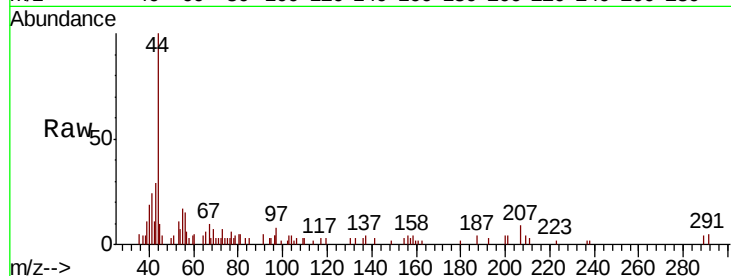
Tgt Ion: 53 Resp: 1144

Ion Ratio Lower Upper

53 100

52 0.0 69.5 104.3#

51 40.8 38.1 57.1



#16

Acetone

Concen: 21.755 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060333.D

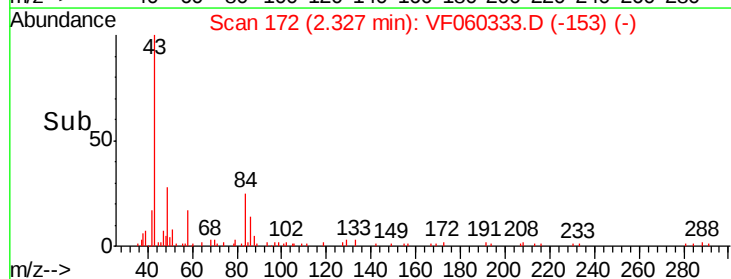
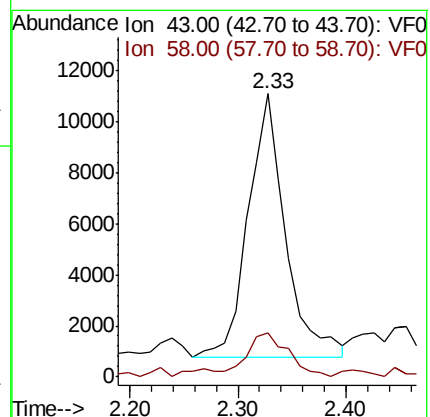
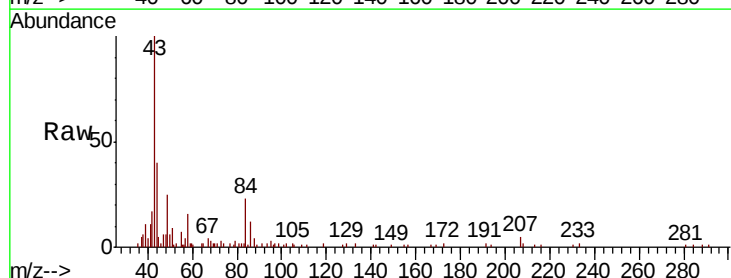
Acq: 25 Sep 2018 19:08

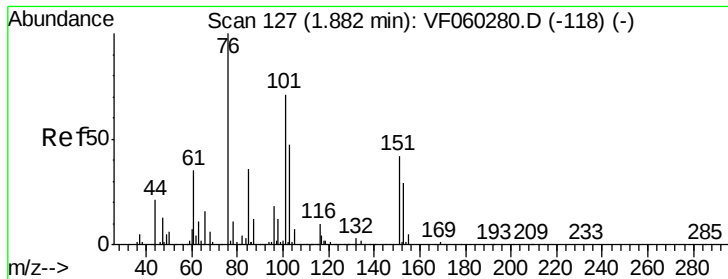
Tgt Ion: 43 Resp: 24748

Ion Ratio Lower Upper

43 100

58 15.6 14.5 21.7

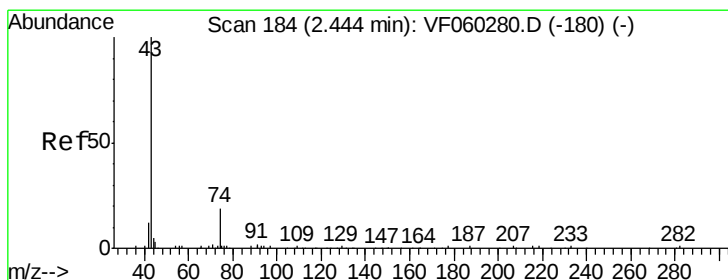
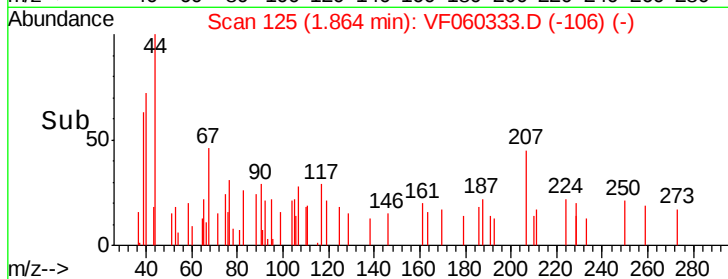
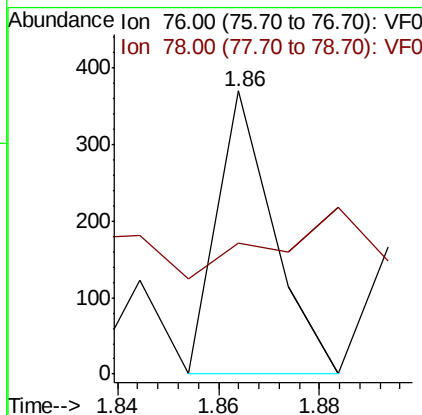
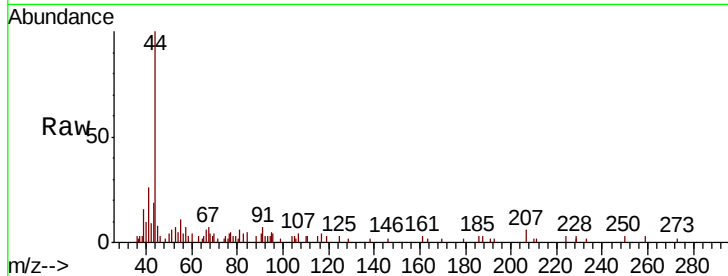




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.86 min Scan# 125
Delta R.T. -0.02 min
Lab File: VF060333.D
Acq: 25 Sep 2018 19:08

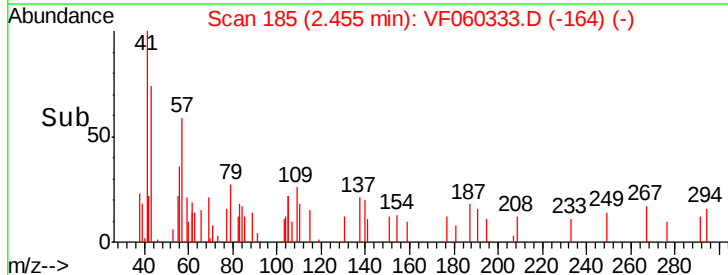
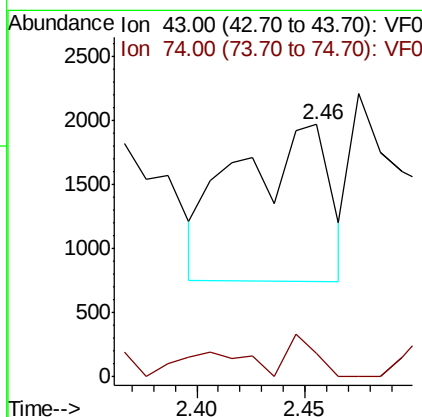
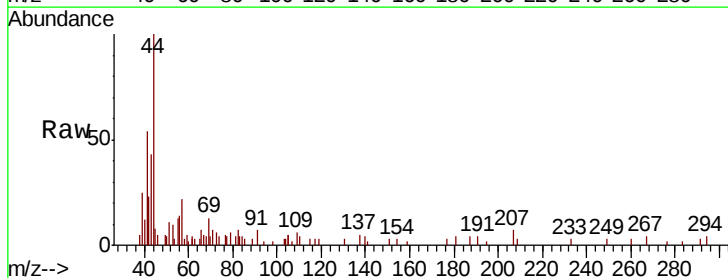
Instrument :
MSVOA_F
ClientSampleId :
OK-03-092418

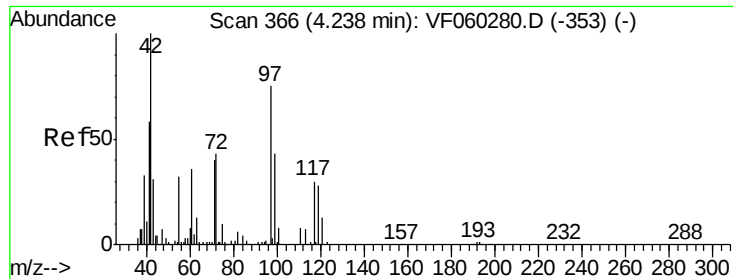
Tgt Ion: 76 Resp: 286
Ion Ratio Lower Upper
76 100
78 46.5 9.4 14.0#



#18
Methyl Acetate
Concen: 1.915 ug/l
RT: 2.46 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF060333.D
Acq: 25 Sep 2018 19:08

Tgt Ion: 43 Resp: 3630
Ion Ratio Lower Upper
43 100
74 9.3 12.7 19.1#





#29

Tetrahydrofuran

Concen: 3.569 ug/l

RT: 4.23 min Scan# 365

Delta R.T. -0.01 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

OK-03-092418

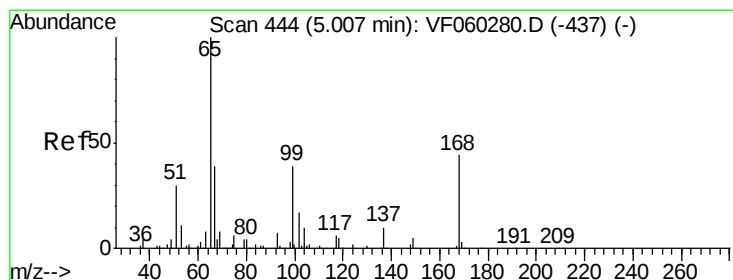
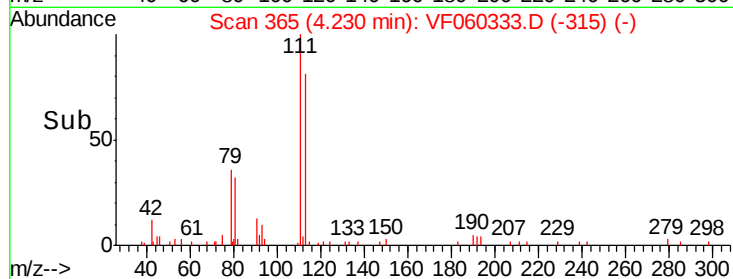
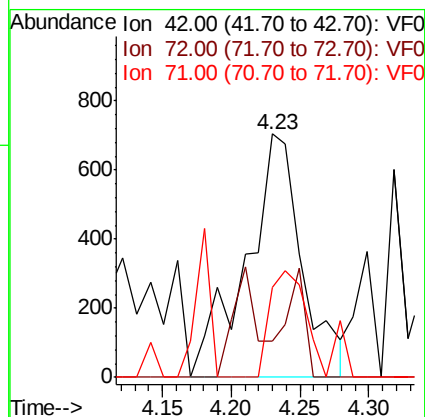
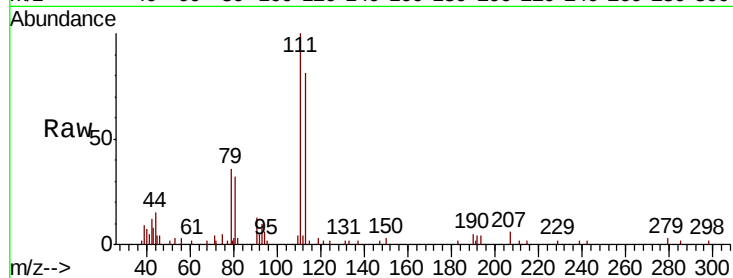
Tgt Ion: 42 Resp: 2001

Ion Ratio Lower Upper

42 100

72 13.9 32.6 49.0#

71 28.0 32.7 49.1#



#33

1,2-Dichloroethane-d4

Concen: 53.341 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060333.D

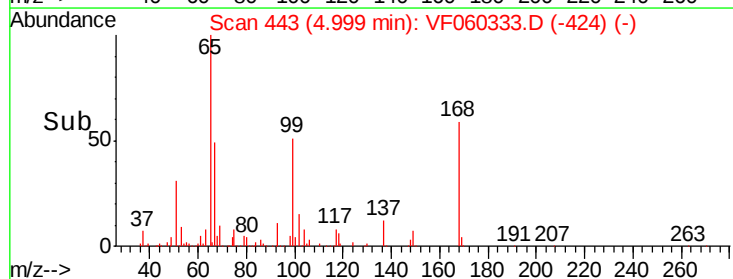
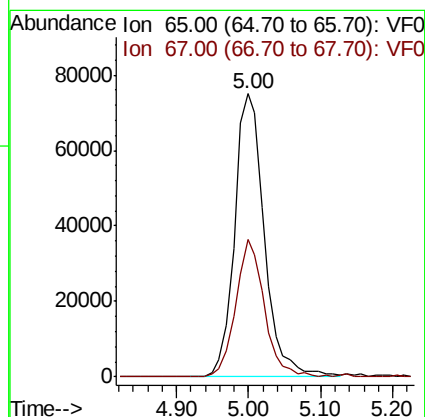
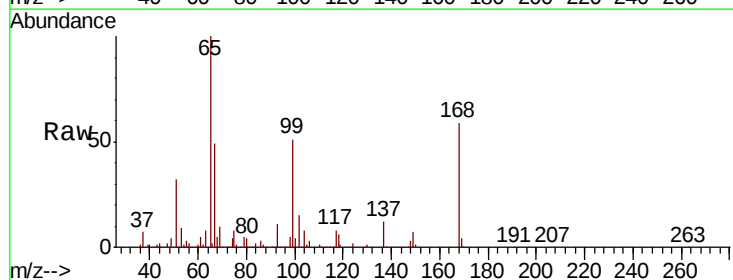
Acq: 25 Sep 2018 19:08

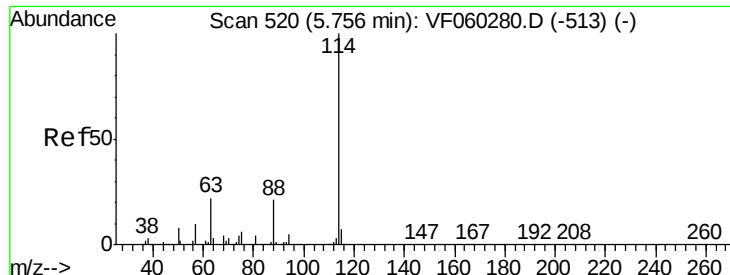
Tgt Ion: 65 Resp: 215460

Ion Ratio Lower Upper

65 100

67 48.5 0.0 94.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

OK-03-092418

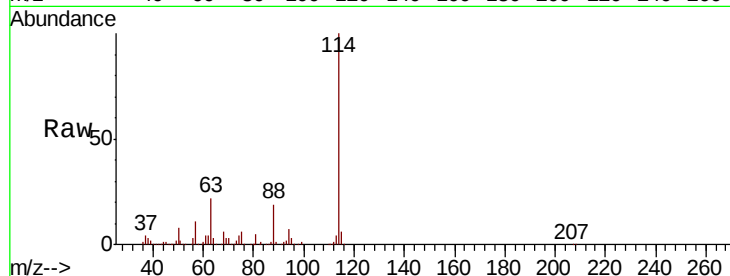
Tgt Ion:114 Resp: 515712

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.8

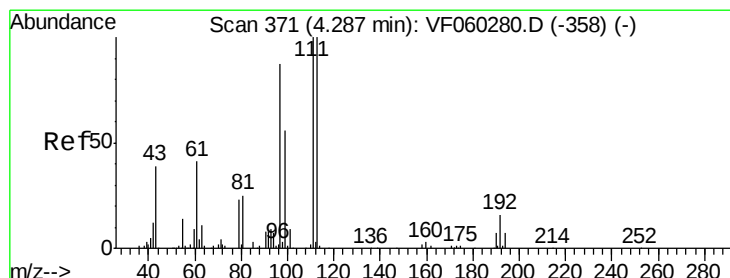
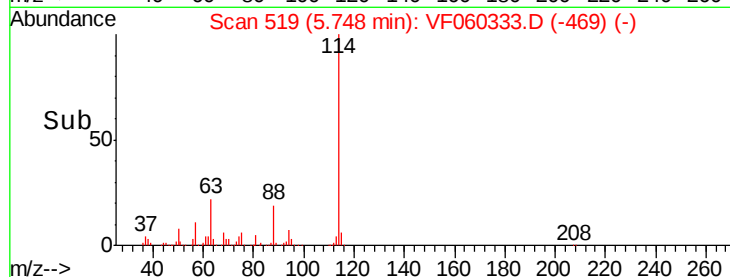
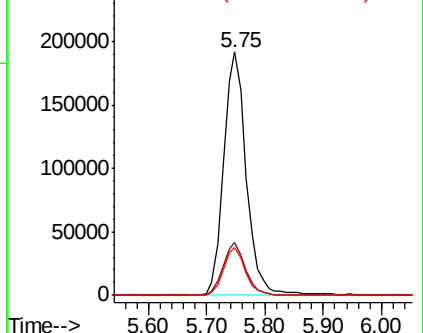
88 19.4 0.0 41.2



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: 44.977 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

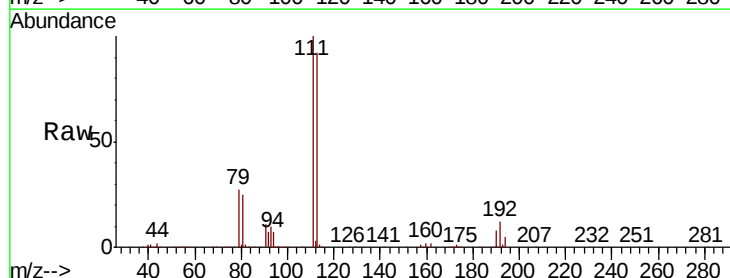
Tgt Ion:113 Resp: 206769

Ion Ratio Lower Upper

113 100

111 109.1 79.6 119.4

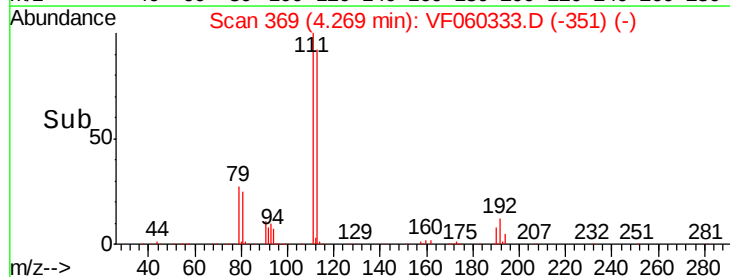
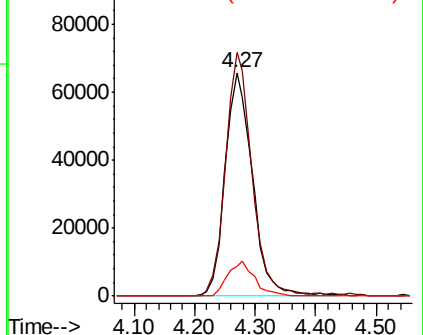
192 13.3 13.0 19.6

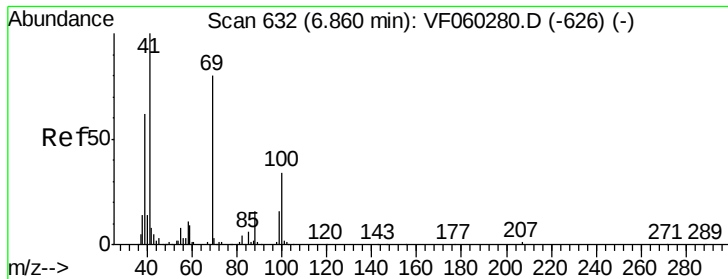


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.260 ug/l

RT: 6.83 min Scan# 629

Delta R.T. -0.03 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

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MSVOA_F

ClientSampleId :

OK-03-092418

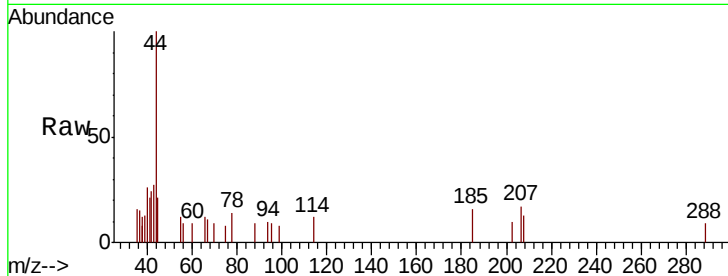
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 286.8 40.2 60.4#

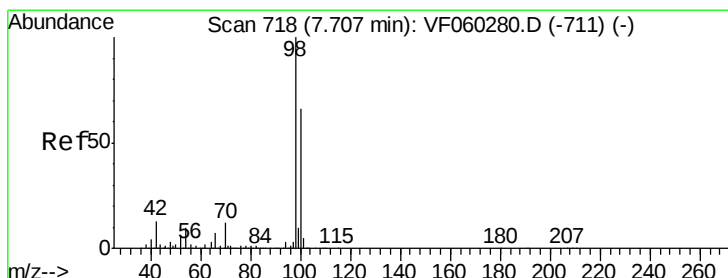
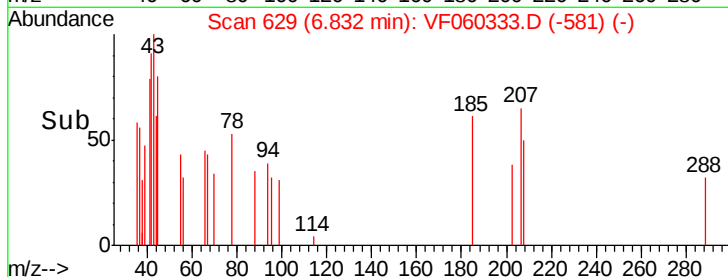
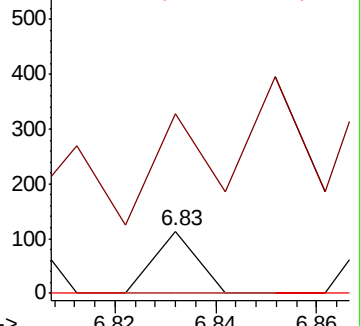
58 0.0 56.7 85.1#



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: 41.743 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060333.D

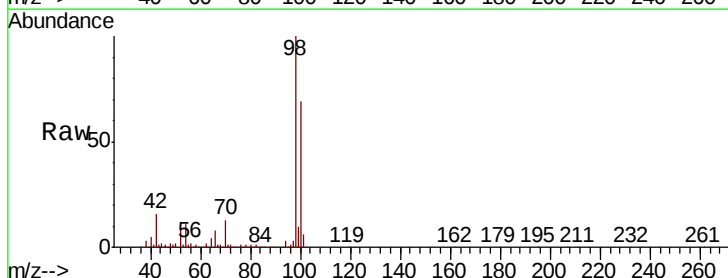
Acq: 25 Sep 2018 19:08

Tgt Ion: 98 Resp: 499747

Ion Ratio Lower Upper

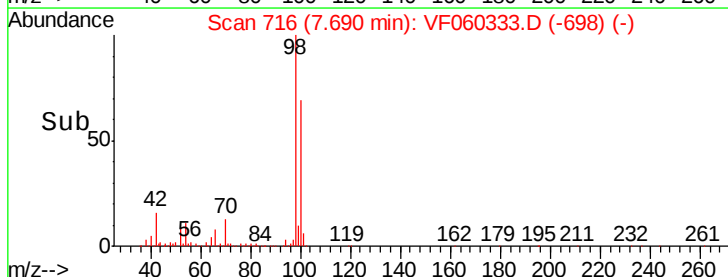
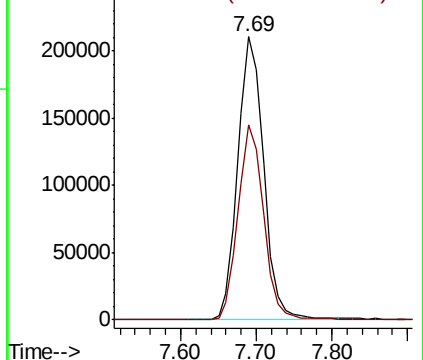
98 100

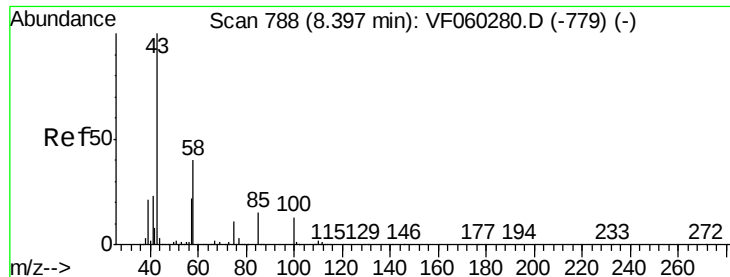
100 68.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

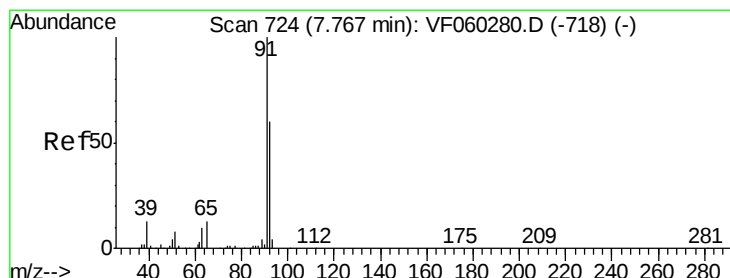
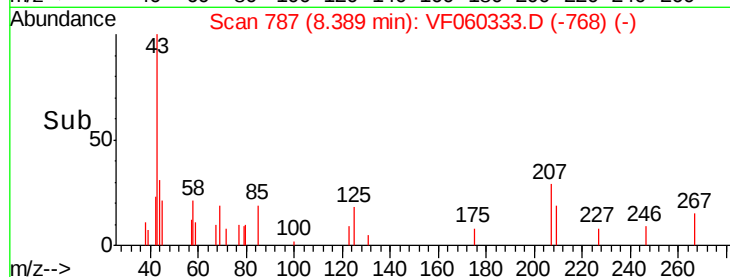
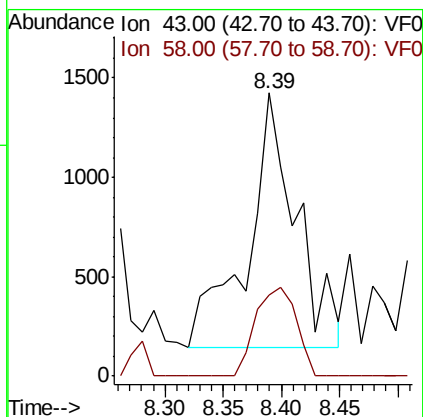
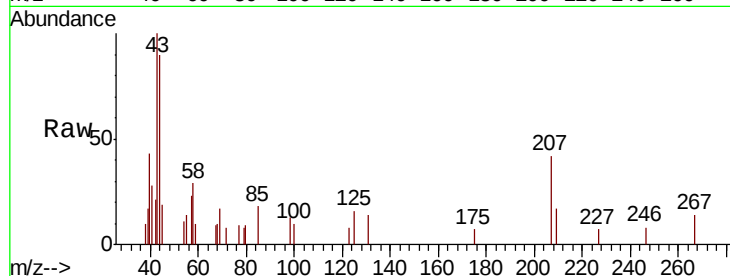




#51
 4-Methyl-2-Pentanone
 Concen: 1.471 ug/l
 RT: 8.39 min Scan# 787
 Delta R.T. -0.01 min
 Lab File: VF060333.D
 Acq: 25 Sep 2018 19:08

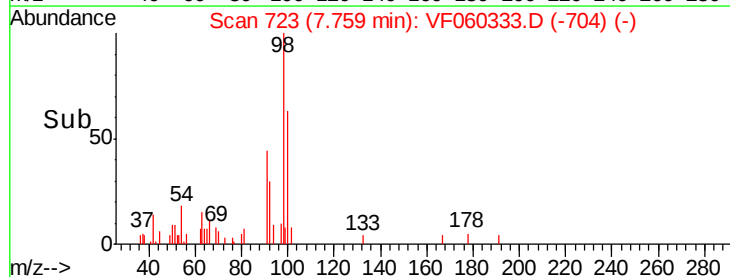
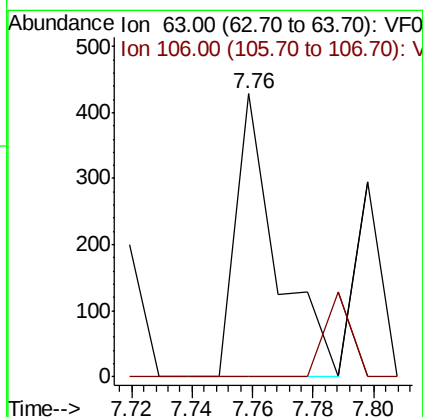
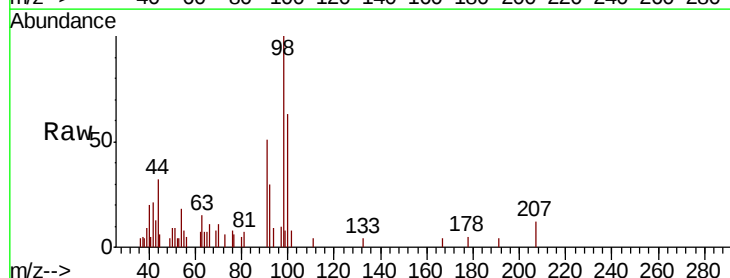
Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-092418

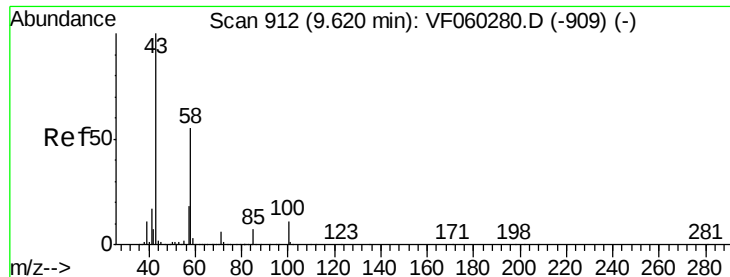
Tgt Ion: 43 Resp: 3714
 Ion Ratio Lower Upper
 43 100
 58 28.8 31.8 47.8#



#58
 2-Chloroethyl Vinyl ether
 Concen: 1.344 ug/l
 RT: 7.76 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: VF060333.D
 Acq: 25 Sep 2018 19:08

Tgt Ion: 63 Resp: 402
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

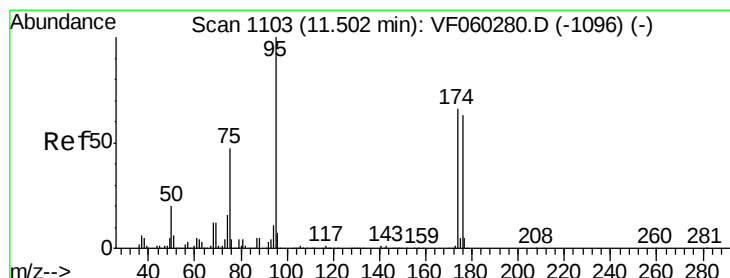
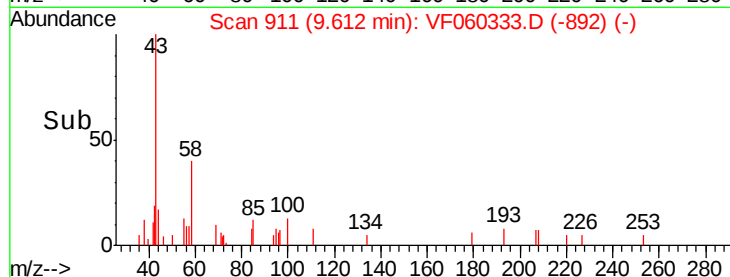
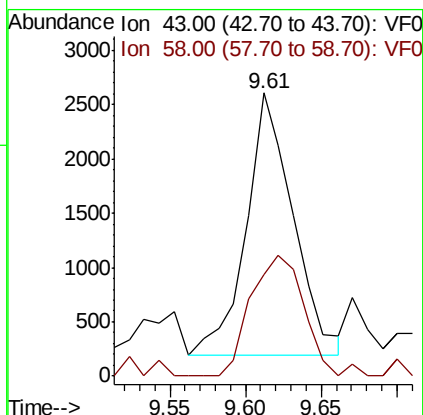
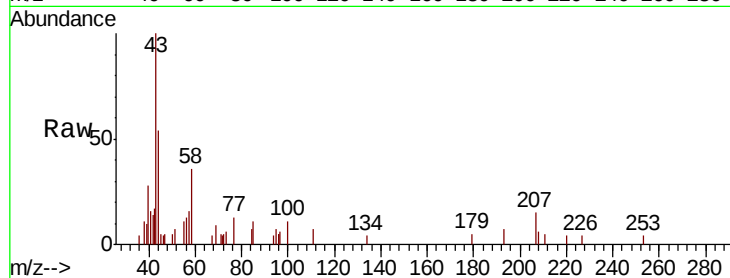




#59
2-Hexanone
Concen: 2.898 ug/l
RT: 9.61 min Scan# 911
Delta R.T. -0.01 min
Lab File: VF060333.D
Acq: 25 Sep 2018 19:08

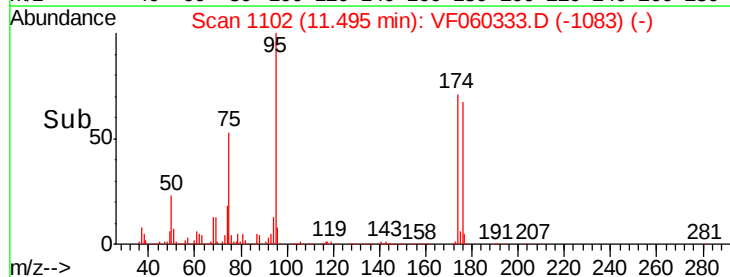
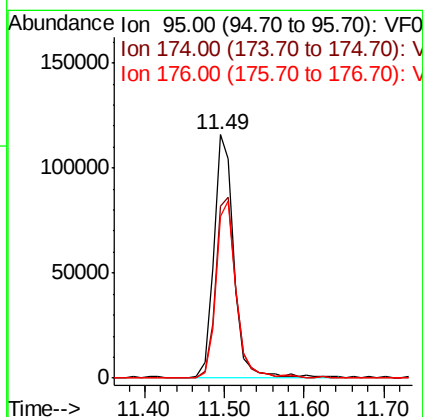
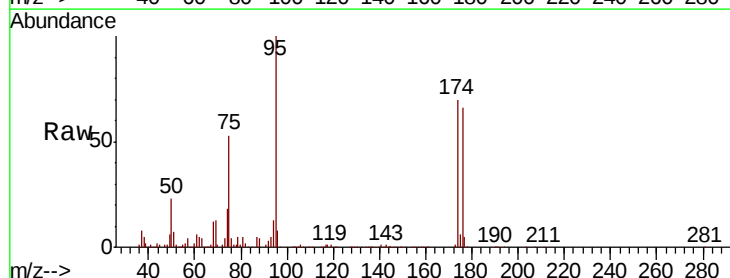
Instrument :
MSVOA_F
ClientSampleId :
OK-03-092418

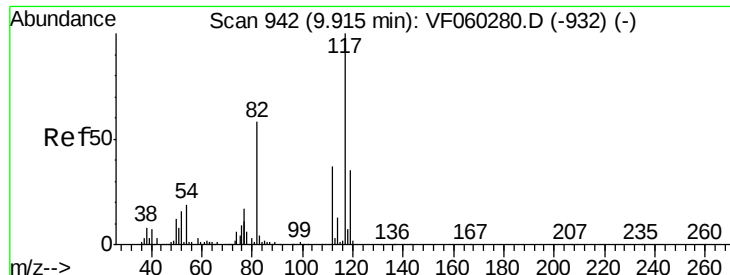
Tgt Ion: 43 Resp: 5211
Ion Ratio Lower Upper
43 100
58 35.9 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 39.756 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060333.D
Acq: 25 Sep 2018 19:08

Tgt Ion: 95 Resp: 205744
Ion Ratio Lower Upper
95 100
174 70.4 0.0 131.2
176 66.2 0.0 126.6

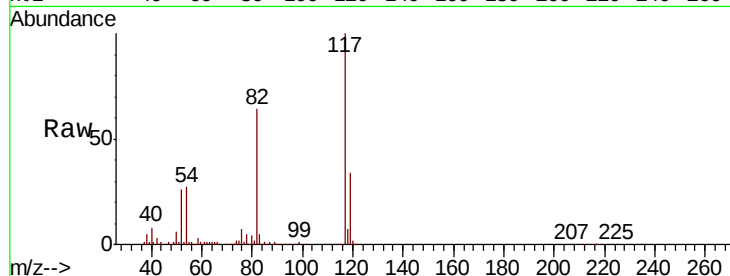




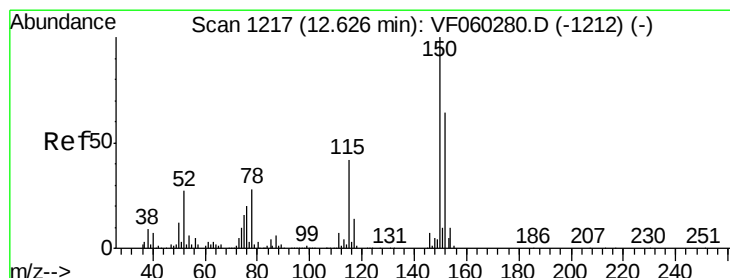
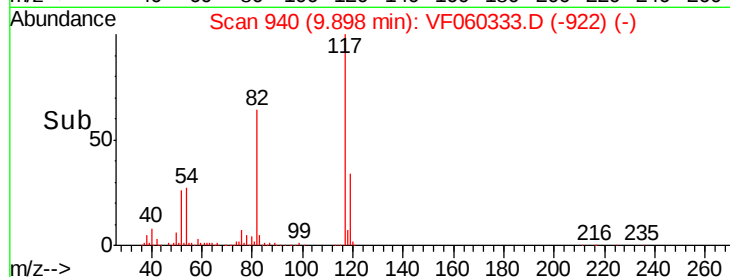
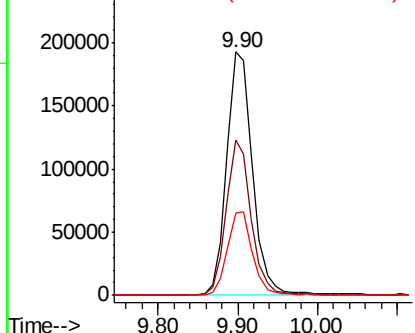
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060333.D
Acq: 25 Sep 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
OK-03-092418

Tgt Ion:117 Resp: 443100
Ion Ratio Lower Upper
117 100
82 64.0 46.2 69.2
119 33.9 27.8 41.6

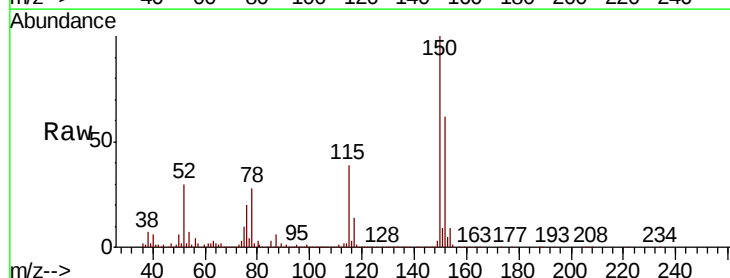


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

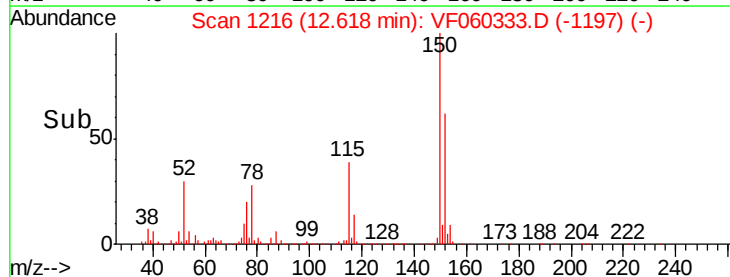
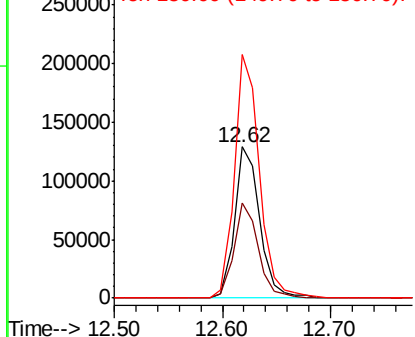


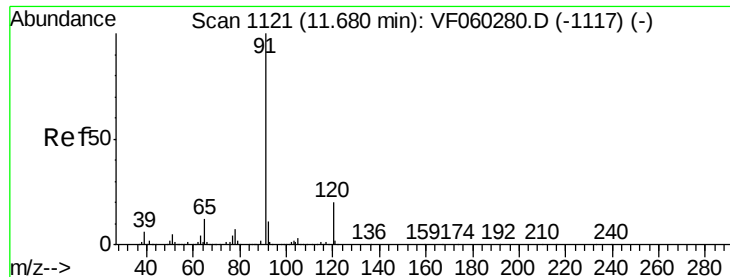
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.01 min
Lab File: VF060333.D
Acq: 25 Sep 2018 19:08

Tgt Ion:152 Resp: 209103
Ion Ratio Lower Upper
152 100
115 63.4 32.6 97.8
150 161.3 0.0 314.2



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





#78

n-propylbenzene

Concen: Below Cal

RT: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060333.D

Acq: 25 Sep 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

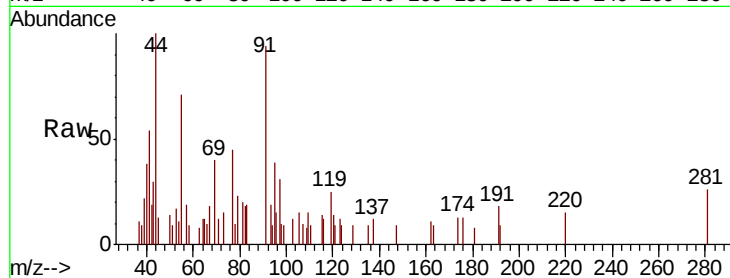
OK-03-092418

Tgt Ion: 91 Resp: 3331

Ion Ratio Lower Upper

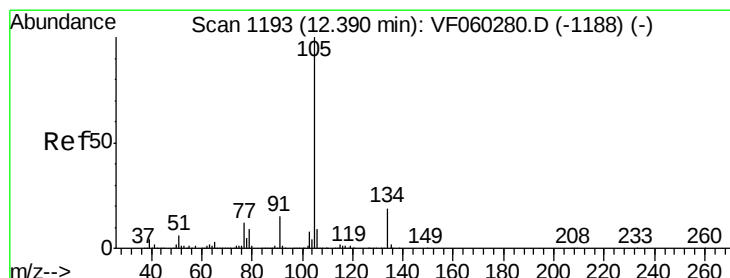
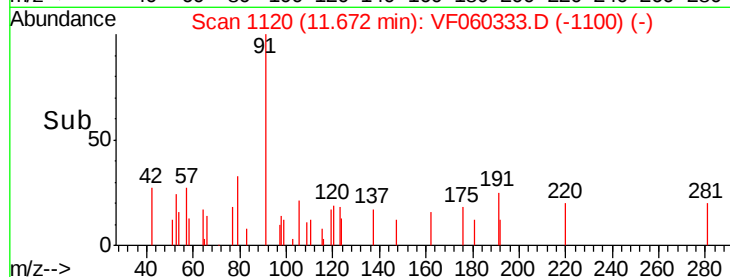
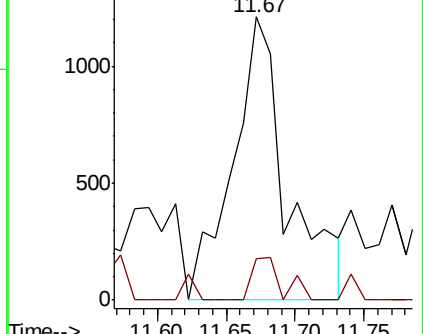
91 100

120 14.6 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: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060333.D

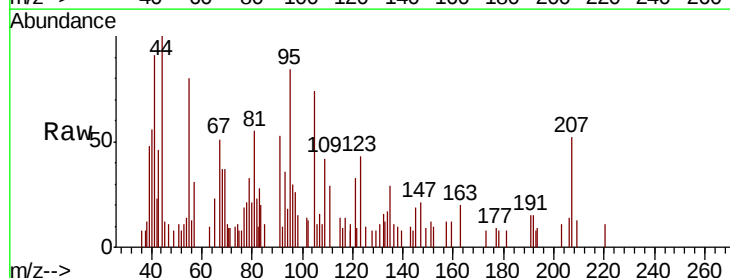
Acq: 25 Sep 2018 19:08

Tgt Ion: 105 Resp: 2483

Ion Ratio Lower Upper

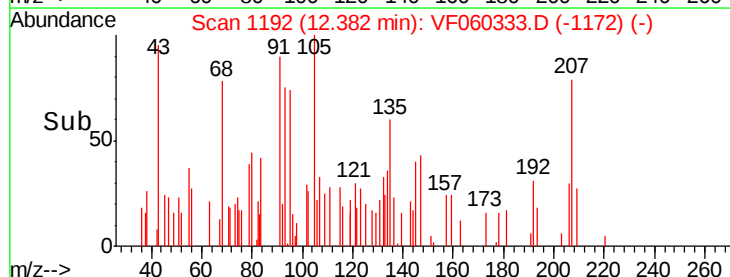
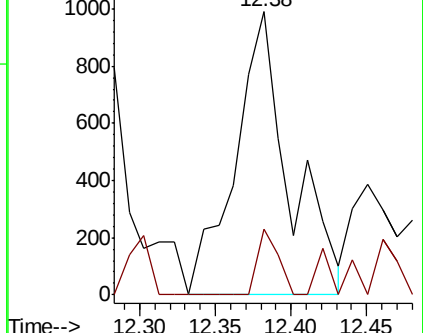
105 100

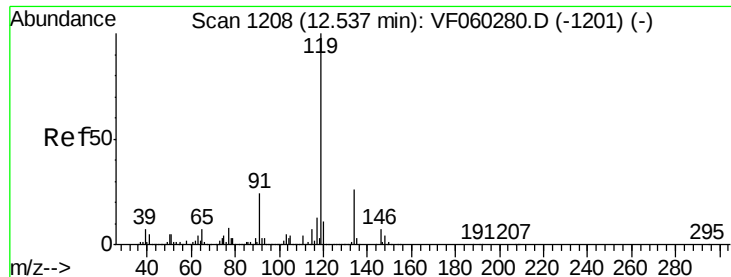
134 23.1 9.6 28.6



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: 12.53 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF060333.D
 Acq: 25 Sep 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-092418

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	12.9	38.7
91	51.9	11.9	35.7

