

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060374.D
 Acq On : 28 Sep 2018 18:31
 Operator : VA/AP
 Sample : J4777-35
 Misc : 6.28/5mL/MSVOA F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-01-092718-B

Quant Time: Sep 29 00:17:55 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

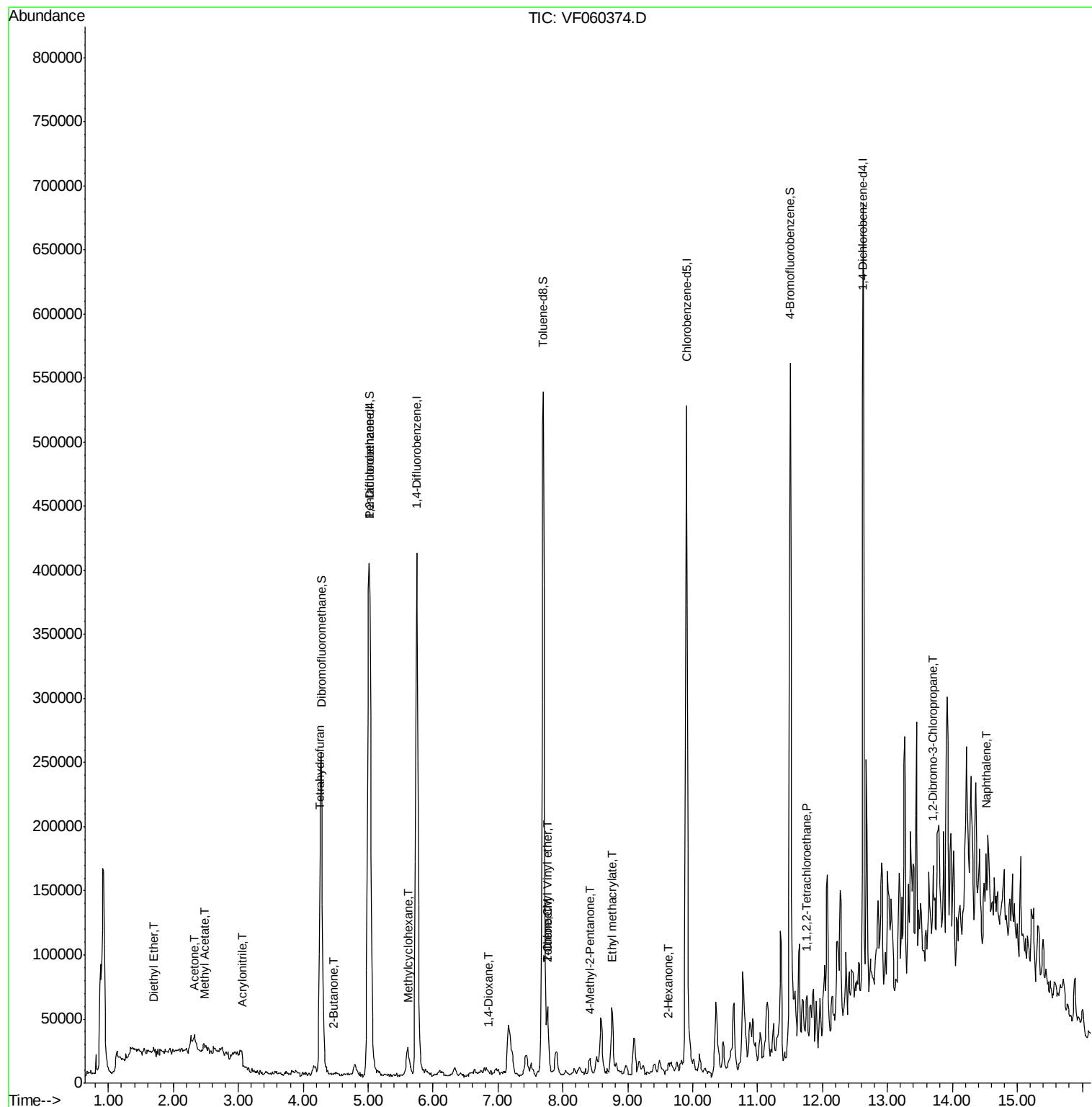
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	258392	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	430337	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	338505	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	150428	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	217144	62.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.82%	
35) Dibromofluoromethane	4.28	113	228905	59.67	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	119.34%	
50) Toluene-d8	7.69	98	440577	44.10	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	88.20%	
62) 4-Bromofluorobenzene	11.50	95	198456	45.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.92%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	405	Below Cal	#	67
5) Bromomethane	1.39	94	531	Below Cal		87
8) Diethyl Ether	1.69	74	1880	1.690	ug/l	58
11) Tert butyl alcohol	2.66	59	722	Below Cal	#	1
13) Acrolein	2.17	56	707	Below Cal		82
15) Acrylonitrile	3.06	53	1068	2.173	ug/l #	44
16) Acetone	2.32	43	12192	12.443	ug/l #	89
17) Carbon Disulfide	1.88	76	1589	Below Cal	#	3
18) Methyl Acetate	2.47	43	3181	1.949	ug/l #	72
20) Methylene Chloride	2.28	84	6703	Below Cal	#	66
25) 2-Butanone	4.47	43	2823	2.140	ug/l #	56
29) Tetrahydrofuran	4.25	42	2358	4.882	ug/l #	50
39) Methylcyclohexane	5.62	83	14075	2.419	ug/l #	82
49) 1,4-Dioxane	6.86	88	81	4.724	ug/l #	1
51) 4-Methyl-2-Pentanone	8.42	43	10127	4.805	ug/l #	48
52) Toluene	7.77	92	23341	3.031	ug/l	95
56) Ethyl methacrylate	8.75	69	26959	9.551	ug/l	87
58) 2-Chloroethyl Vinyl ether	7.77	63	3977	15.939	ug/l	100
59) 2-Hexanone	9.62	43	7102	4.733	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.76	83	6921	2.892	ug/l #	37
78) n-propylbenzene	11.68	91	2693	Below Cal		84
85) sec-Butylbenzene	12.38	105	5298	Below Cal		97
86) p-Isopropyltoluene	12.53	119	11528	Below Cal		89
89) n-Butylbenzene	12.91	91	4051	Below Cal		78
92) 1,2-Dibromo-3-Chloropropan	13.69	75	733	1.631	ug/l #	1
95) Naphthalene	14.52	128	9277	1.403	ug/l #	66

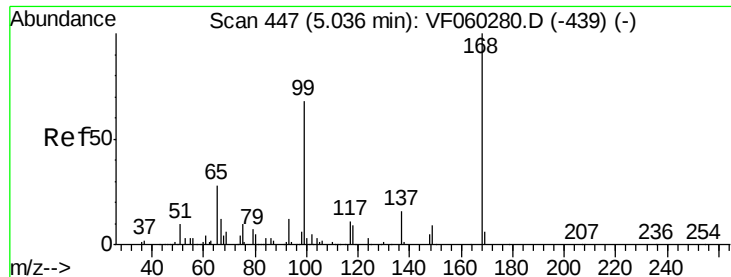
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 20 02:58:42 2018
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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: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

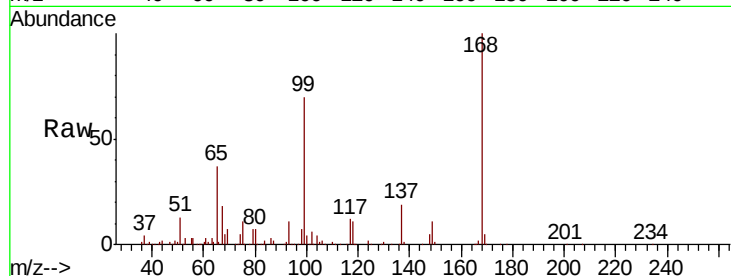
PL-01-092718-B

Tot Ion:168 Resp: 258392

Ion Ratio Lower Upper

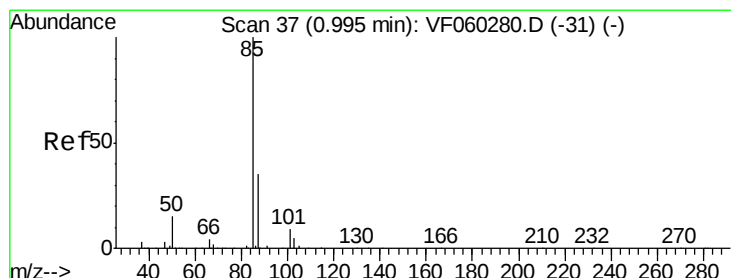
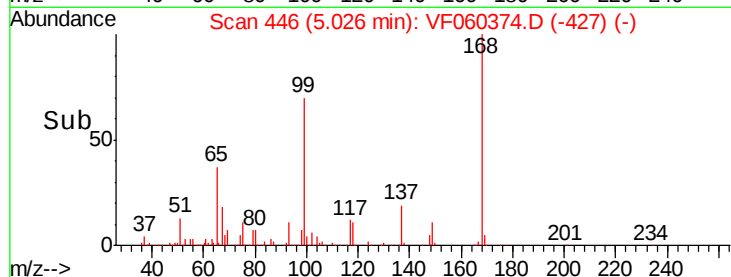
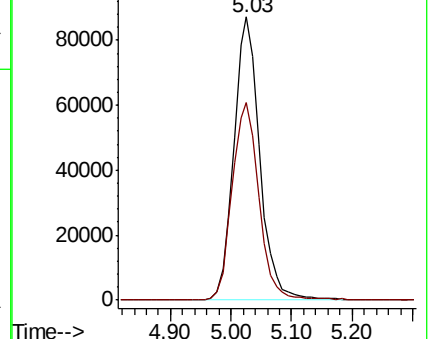
168 100

99 70.0 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 38

Delta R.T. 0.01 min

Lab File: VF060374.D

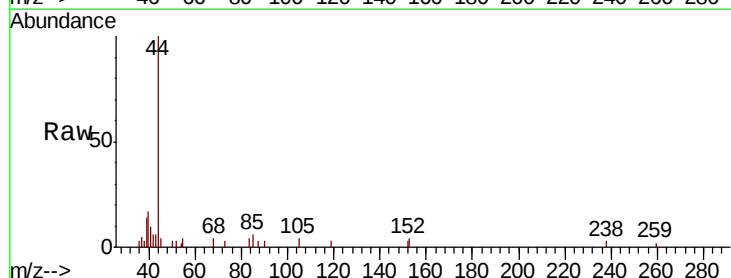
Acq: 28 Sep 2018 18:31

Tgt Ion: 85 Resp: 405

Ion Ratio Lower Upper

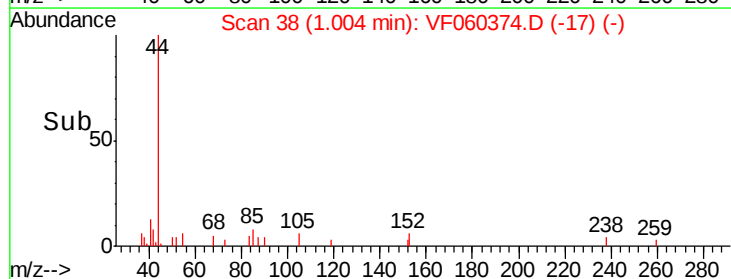
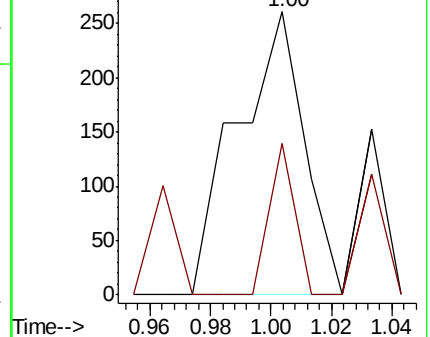
85 100

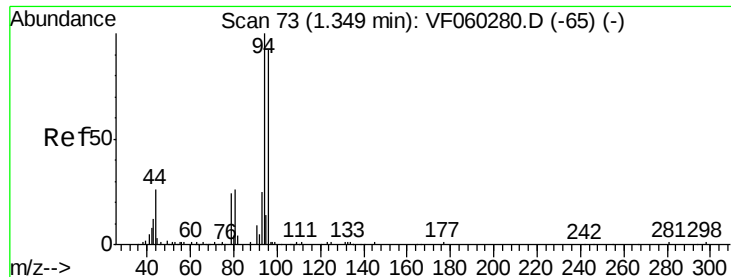
87 53.6 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.04 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

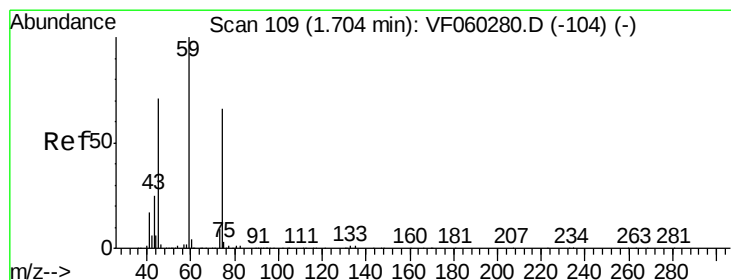
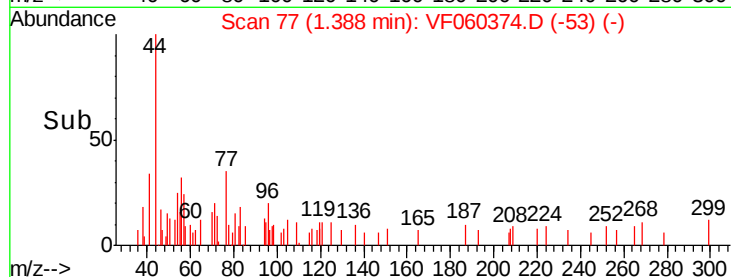
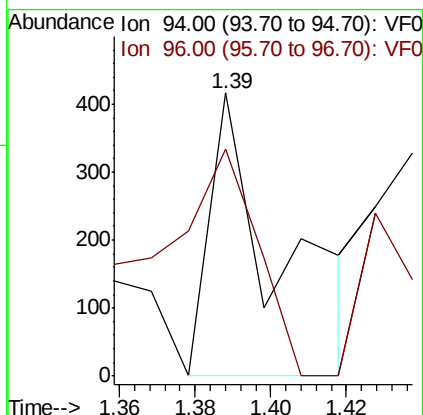
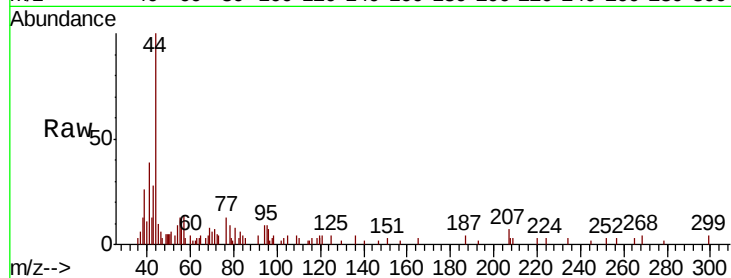
PL-01-092718-B

Tot Ion: 94 Resp: 531

Ion Ratio Lower Upper

94 100

96 80.1 73.9 110.9



#8

Diethyl Ether

Concen: 1.690 ug/l

RT: 1.69 min Scan# 108

Delta R.T. -0.01 min

Lab File: VF060374.D

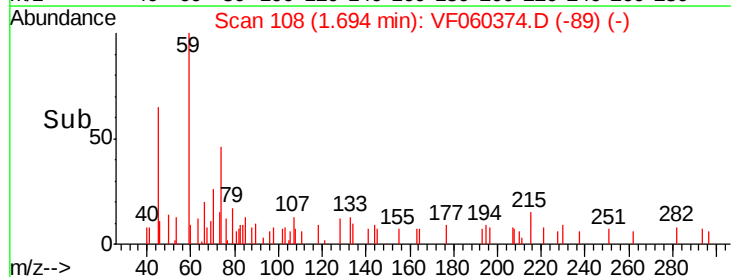
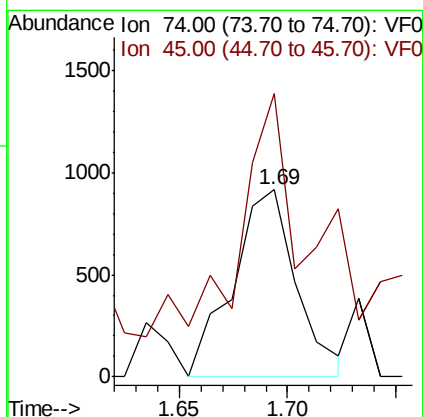
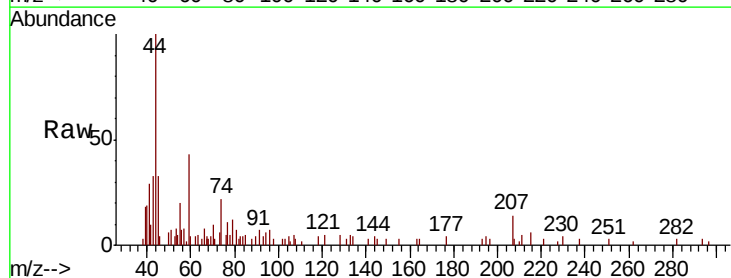
Acq: 28 Sep 2018 18:31

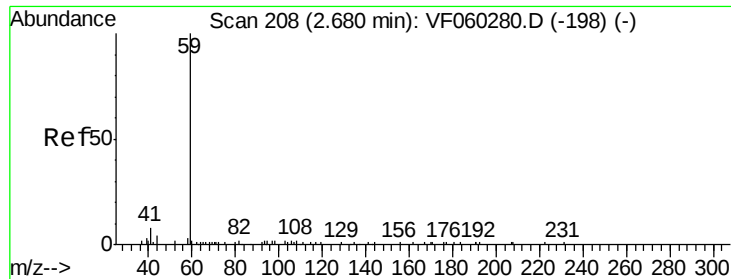
Tgt Ion: 74 Resp: 1880

Ion Ratio Lower Upper

74 100

45 151.5 53.9 161.7



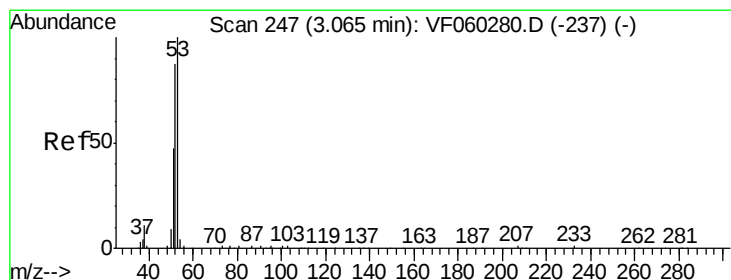
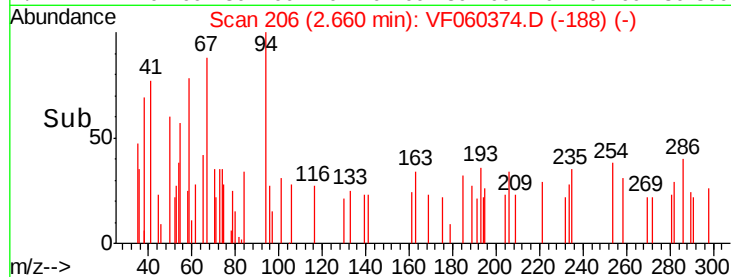
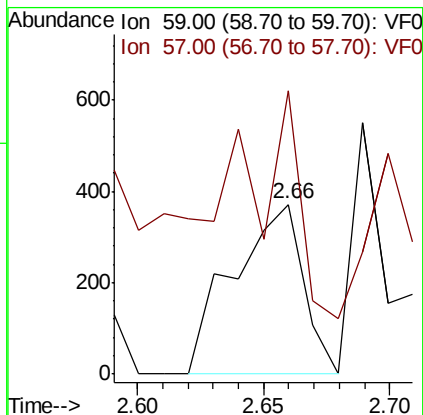
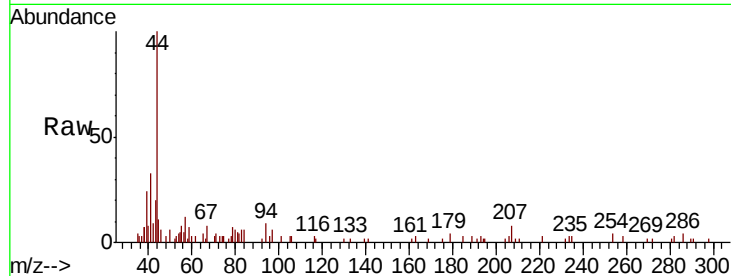


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.66 min Scan# 206
 Delta R.T. -0.02 min
 Lab File: VF060374.D
 Acq: 28 Sep 2018 18:31

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-01-092718-B

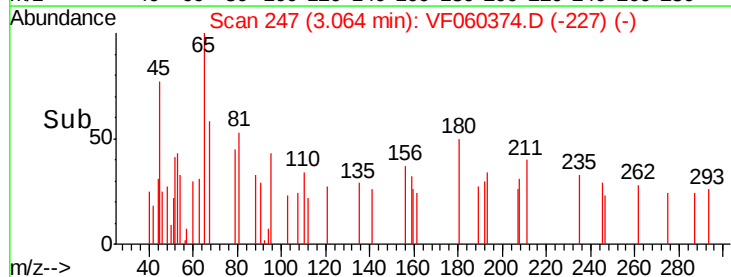
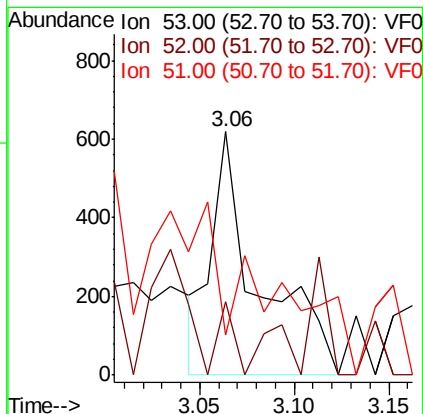
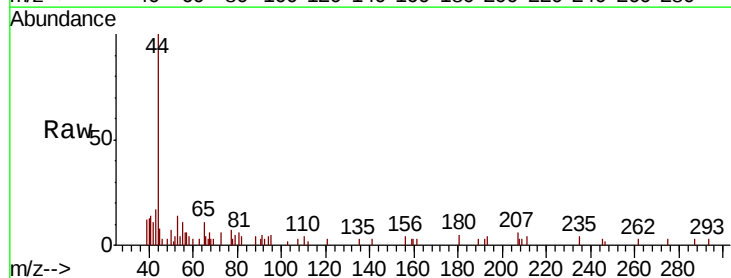
Tot Ion: 59 Resp: 722
 Ion Ratio Lower Upper
 59 100
 57 166.7 12.4 18.6#

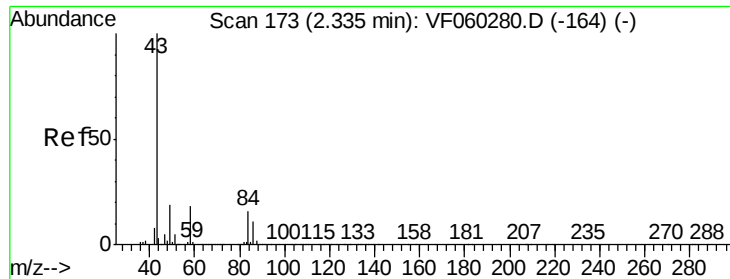


#15

Acrylonitrile
 Concen: 2.173 ug/l
 RT: 3.06 min Scan# 247
 Delta R.T. -0.00 min
 Lab File: VF060374.D
 Acq: 28 Sep 2018 18:31

Tgt Ion: 53 Resp: 1068
 Ion Ratio Lower Upper
 53 100
 52 29.9 69.5 104.3#
 51 16.5 38.1 57.1#

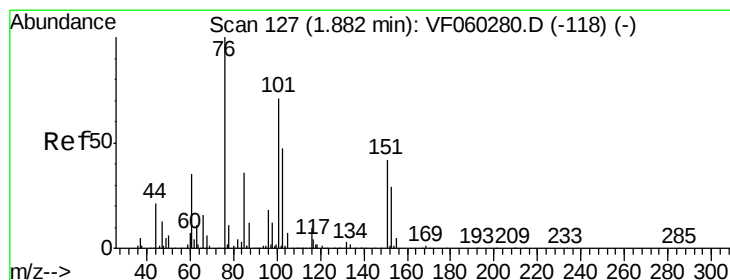
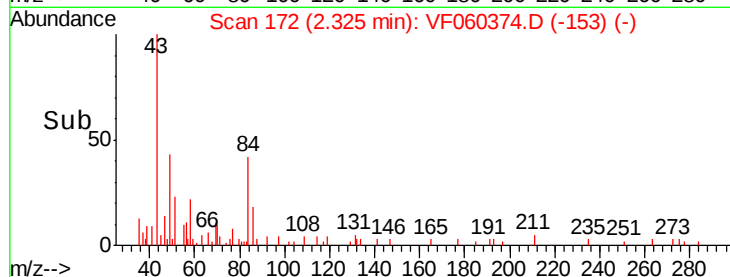
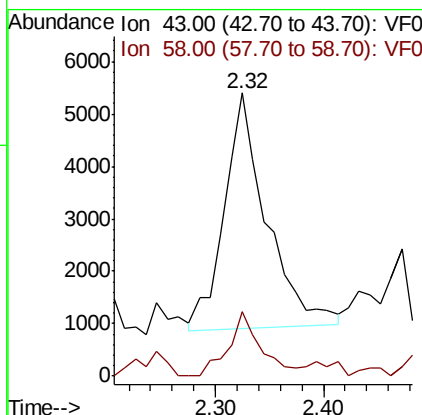
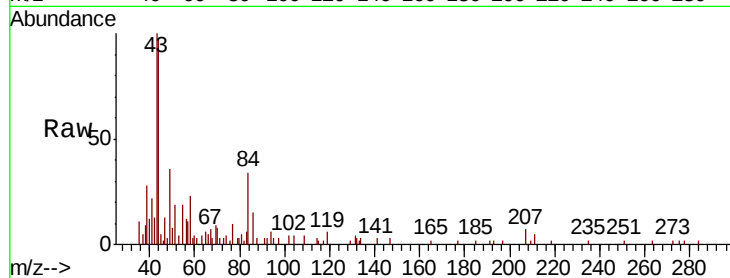




#16
Acetone
Concen: 12.443 ug/l
RT: 2.32 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

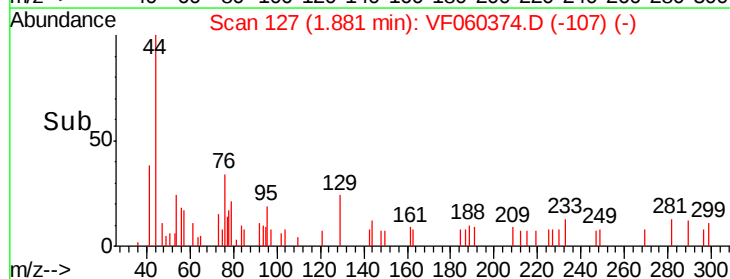
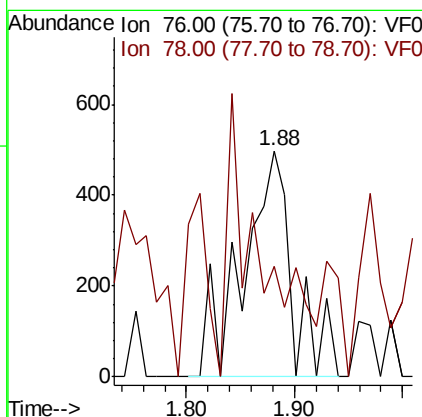
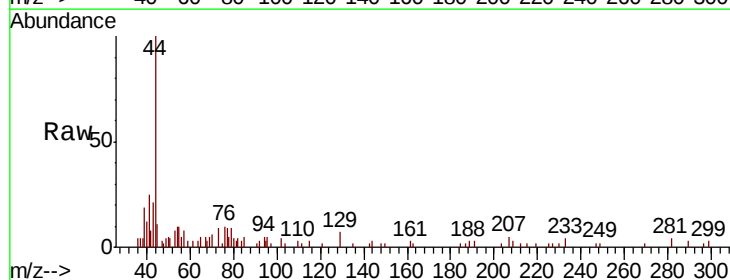
Instrument :
MSVOA_F
ClientSampleId :
PL-01-092718-B

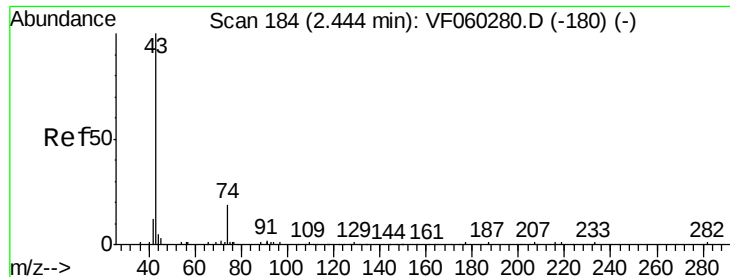
Tot Ion: 43 Resp: 12192
Ion Ratio Lower Upper
43 100
58 22.9 14.5 21.7#



#17
Carbon Disulfide
Concen: Below Cal
RT: 1.88 min Scan# 127
Delta R.T. 0.00 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

Tgt Ion: 76 Resp: 1589
Ion Ratio Lower Upper
76 100
78 49.0 9.4 14.0#

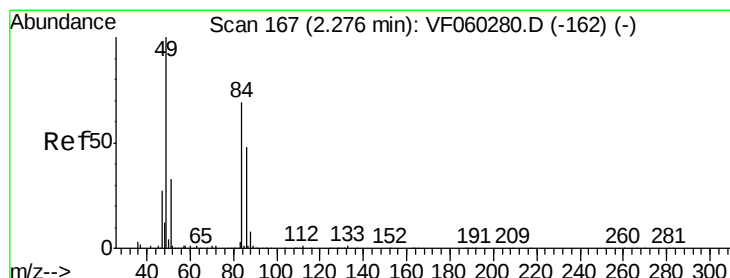
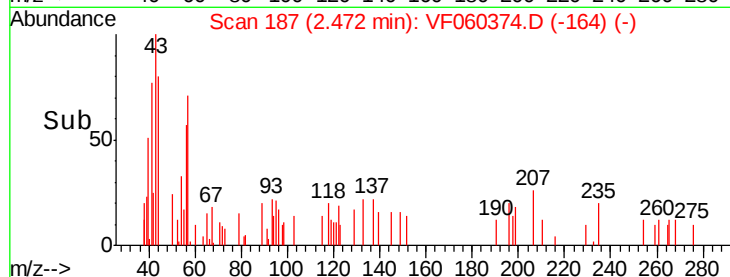
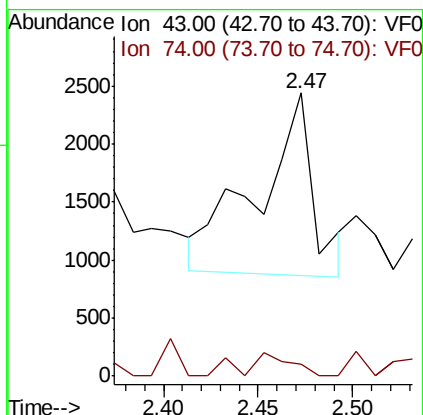
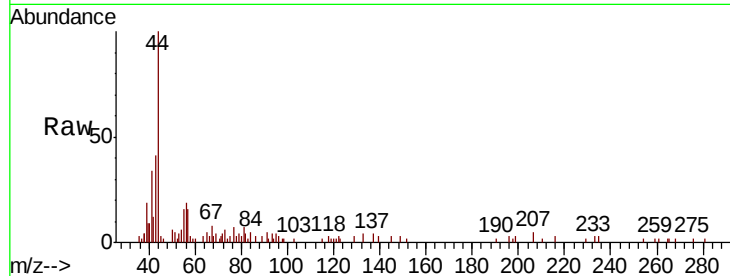




#18
Methyl Acetate
Concen: 1.949 ug/l
RT: 2.47 min Scan# 187
Delta R.T. 0.03 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

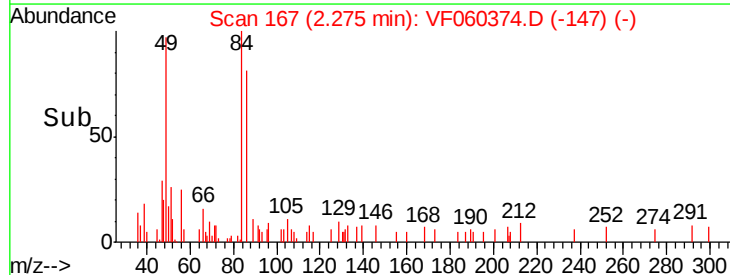
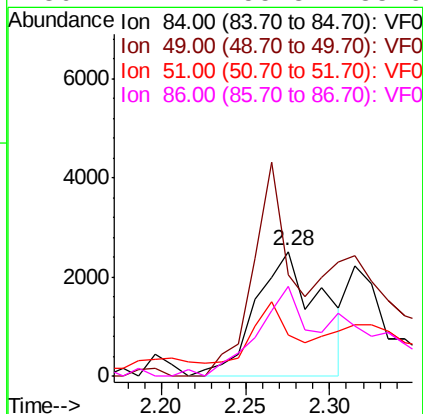
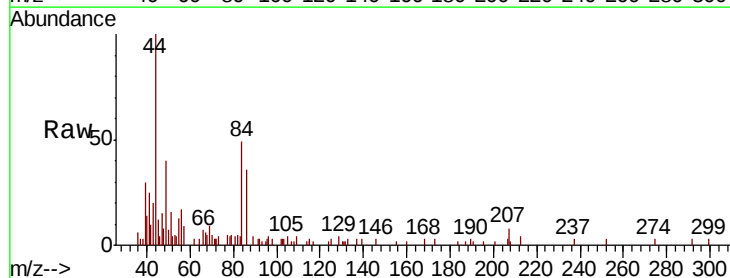
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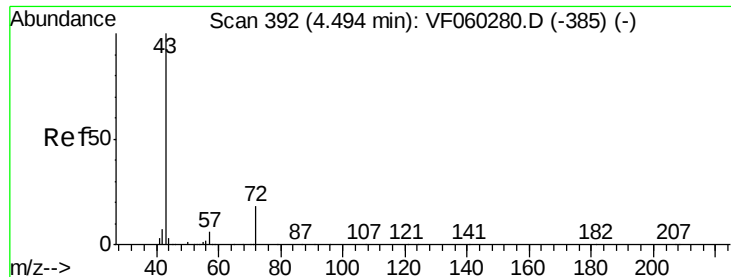
Tot Ion: 43 Resp: 3181
Ion Ratio Lower Upper
43 100
74 4.1 12.7 19.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 167
Delta R.T. -0.00 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

Tgt Ion: 84 Resp: 6703
Ion Ratio Lower Upper
84 100
49 81.4 118.3 177.5#
51 33.0 38.7 58.1#
86 72.2 55.8 83.6

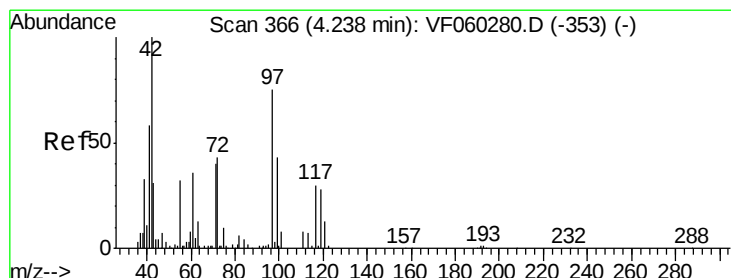
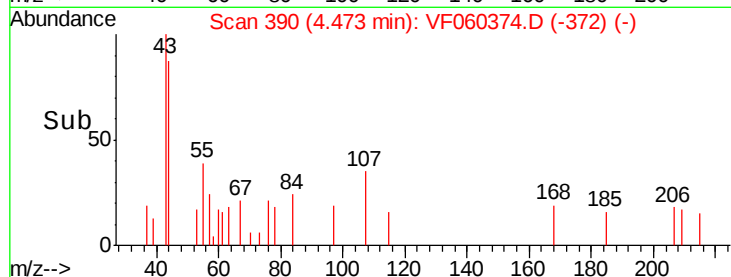
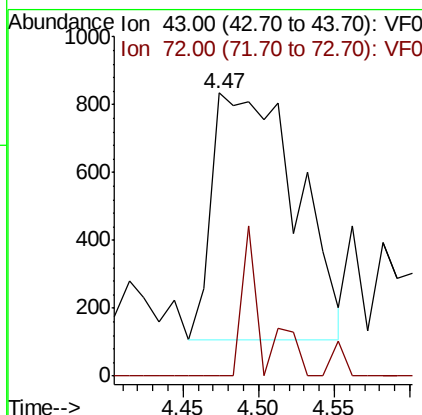
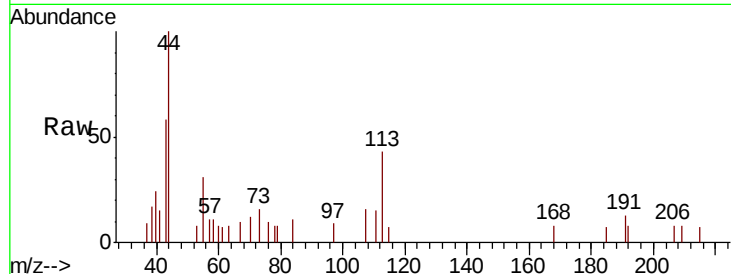




#25
2-Butanone
Concen: 2.140 ug/l
RT: 4.47 min Scan# 390
Delta R.T. -0.02 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

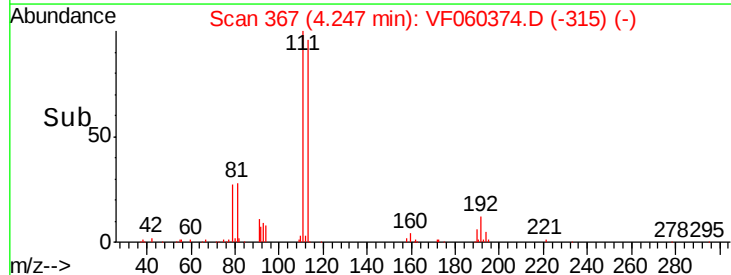
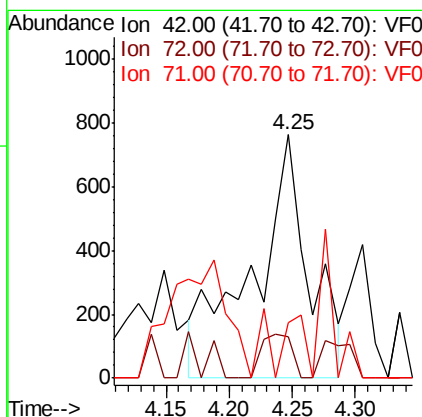
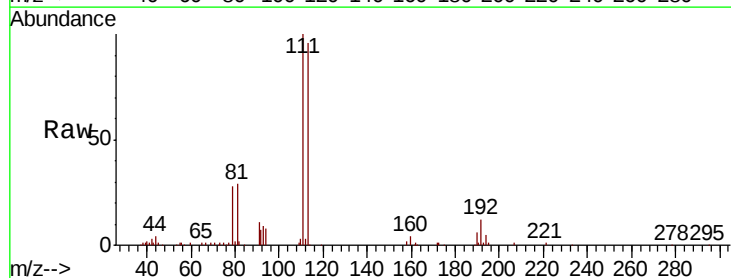
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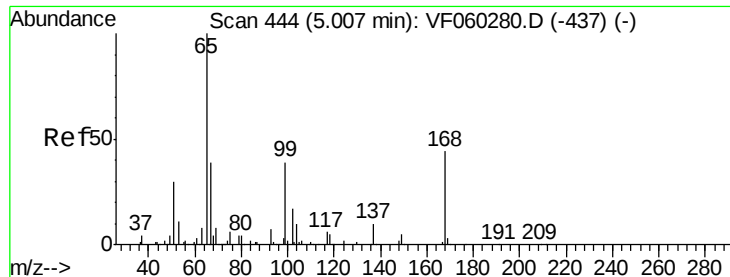
Tot Ion: 43 Resp: 2823
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#



#29
Tetrahydrofuran
Concen: 4.882 ug/l
RT: 4.25 min Scan# 367
Delta R.T. 0.01 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

Tgt Ion: 42 Resp: 2358
Ion Ratio Lower Upper
42 100
72 9.7 32.6 49.0#
71 9.4 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 62.410 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

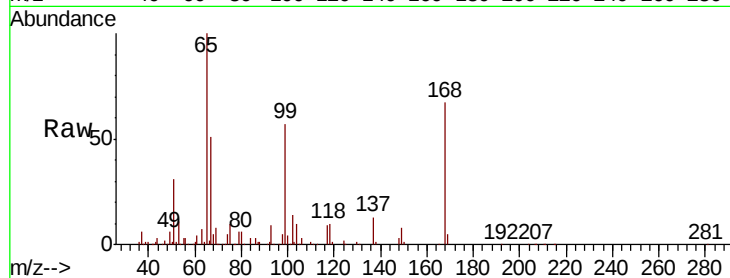
PL-01-092718-B

Tot Ion: 65 Resp: 217144

Ion Ratio Lower Upper

65 100

67 51.2 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.01

80000

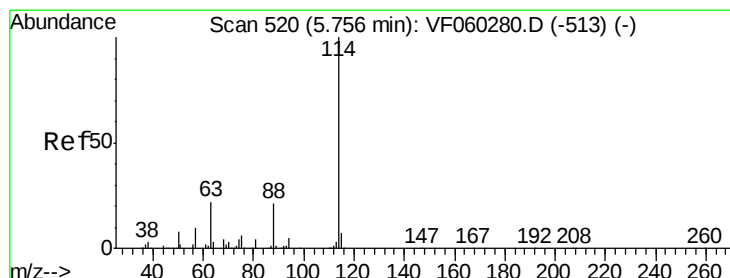
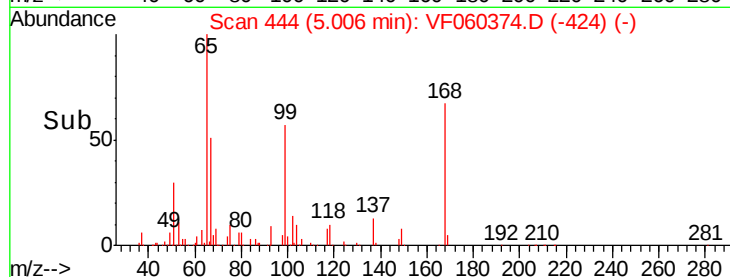
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

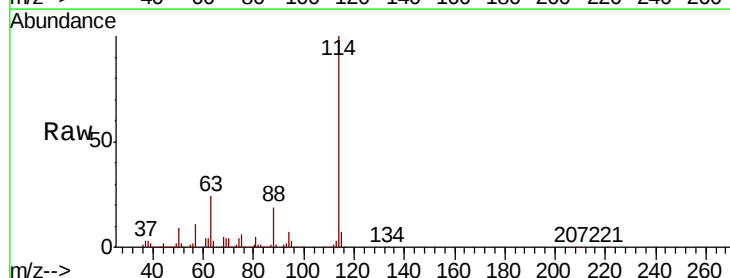
Tgt Ion: 114 Resp: 430337

Ion Ratio Lower Upper

114 100

63 23.6 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

200000

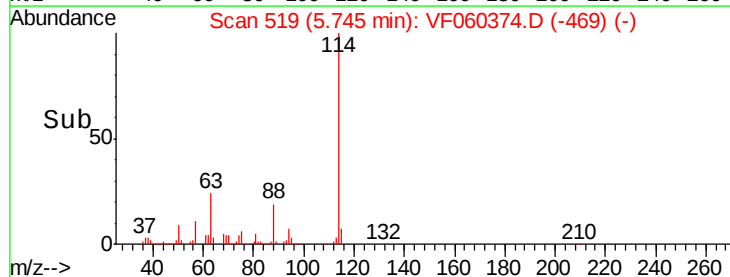
150000

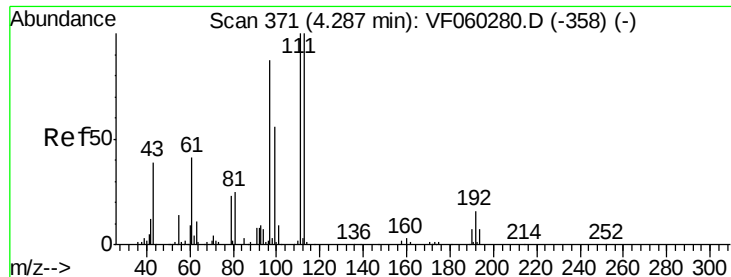
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 59.671 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-B

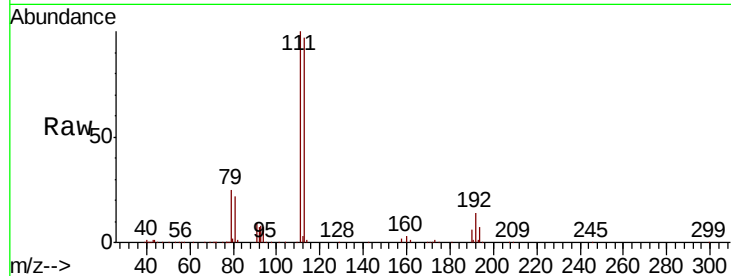
Tot Ion:113 Resp: 228905

Ion Ratio Lower Upper

113 100

111 103.6 79.6 119.4

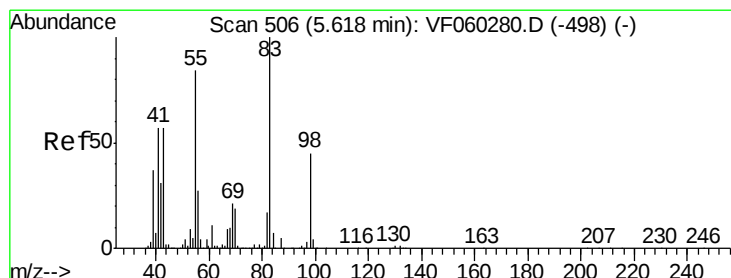
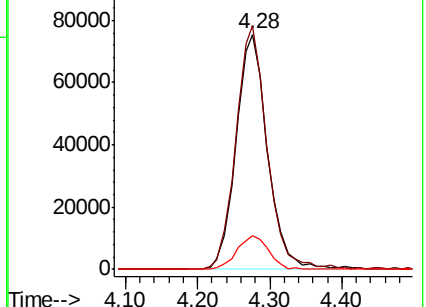
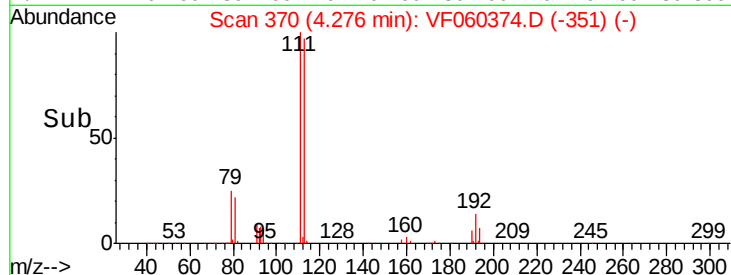
192 14.3 13.0 19.6



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



#39

Methylcyclohexane

Concen: 2.419 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.00 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

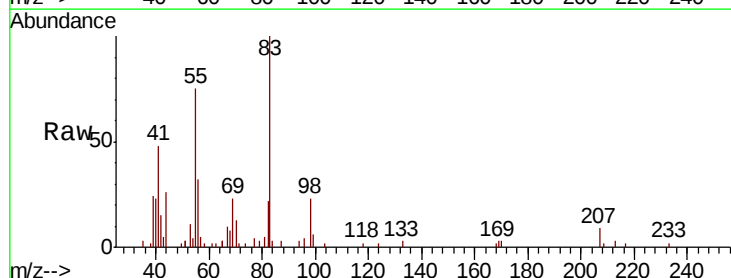
Tgt Ion: 83 Resp: 14075

Ion Ratio Lower Upper

83 100

55 75.2 67.3 100.9

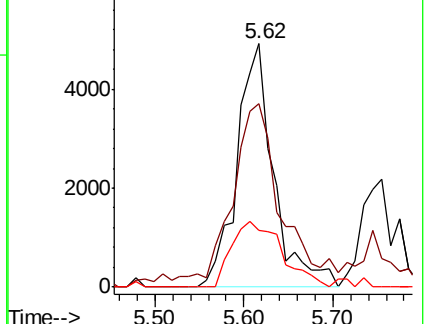
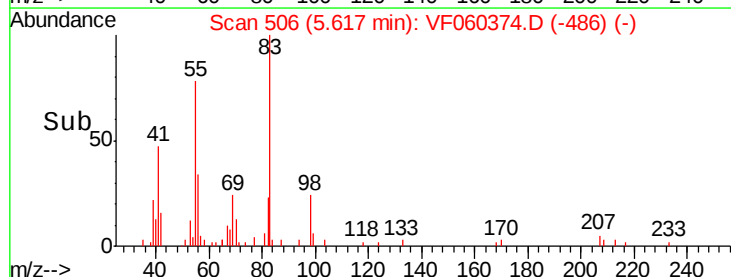
98 23.1 36.1 54.1#

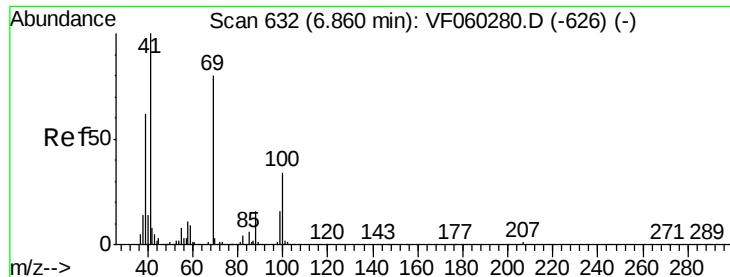


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#49

1,4-Dioxane

Concen: 4.724 ug/l

RT: 6.86 min Scan# 632

Delta R.T. -0.00 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-B

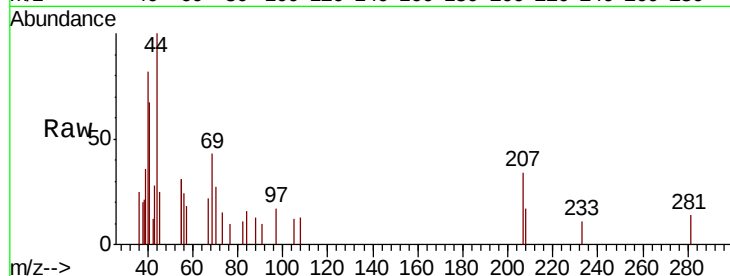
Tot Ion: 88 Resp: 81

Ion Ratio Lower Upper

88 100

43 211.7 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

800

600

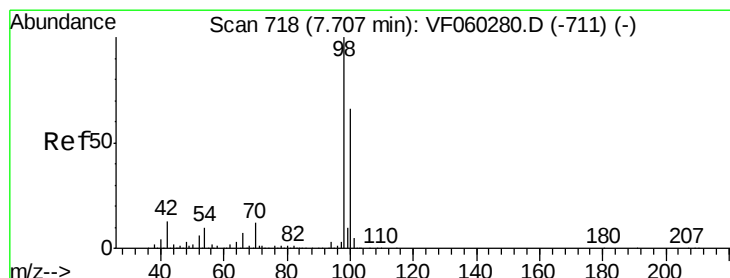
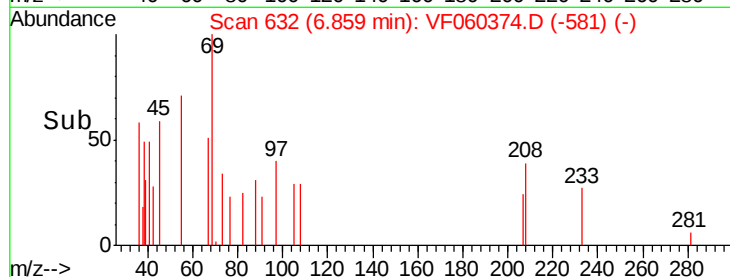
400

200

0

6.82 6.84 6.86 6.88

Time-->



#50

Toluene-d8

Concen: 44.101 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060374.D

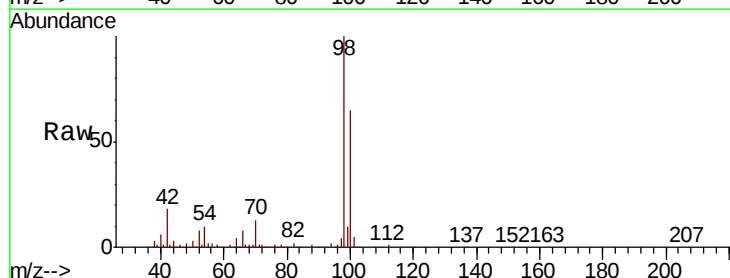
Acq: 28 Sep 2018 18:31

Tgt Ion: 98 Resp: 440577

Ion Ratio Lower Upper

98 100

100 64.5 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

200000

150000

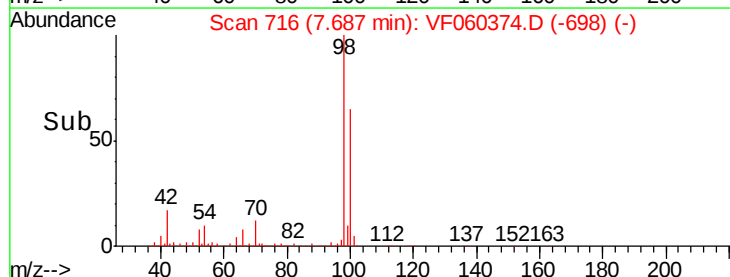
100000

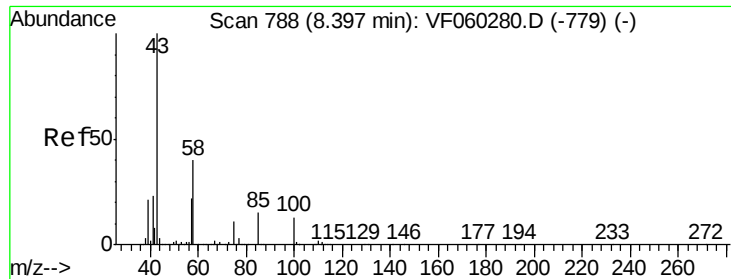
50000

0

7.60 7.70 7.80 7.90

Time-->





#51

4-Methyl-2-Pentanone

Concen: 4.805 ug/l

RT: 8.42 min Scan# 790

Delta R.T. 0.02 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

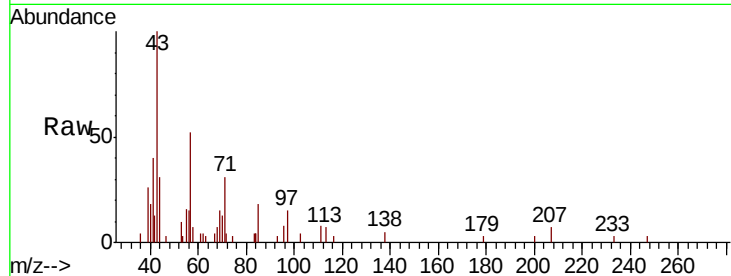
PL-01-092718-B

Tot Ion: 43 Resp: 10127

Ion Ratio Lower Upper

43 100

58 7.5 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

4000

3000

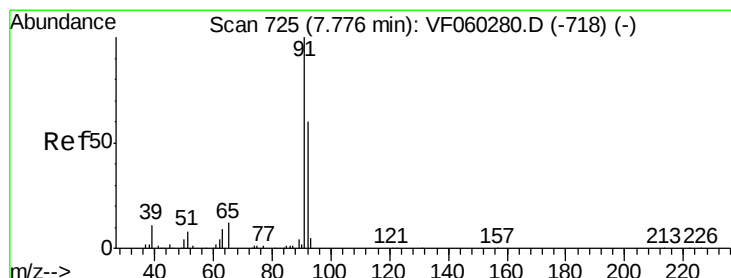
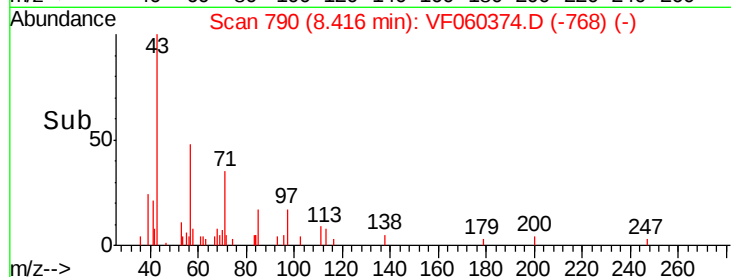
2000

1000

0

8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 3.031 ug/l

RT: 7.77 min Scan# 724

Delta R.T. -0.01 min

Lab File: VF060374.D

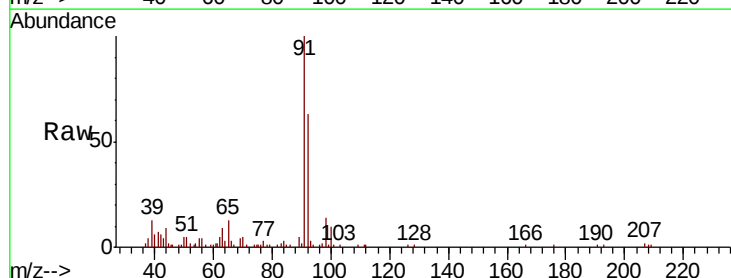
Acq: 28 Sep 2018 18:31

Tgt Ion: 92 Resp: 23341

Ion Ratio Lower Upper

92 100

91 159.2 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

15000

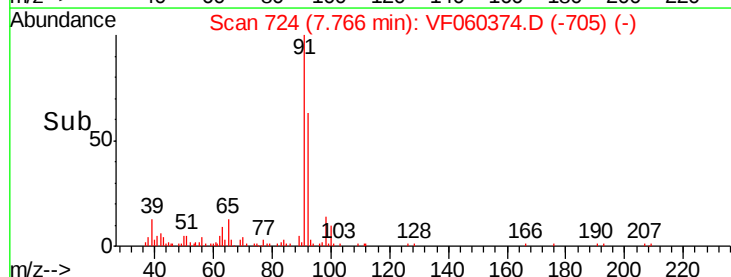
10000

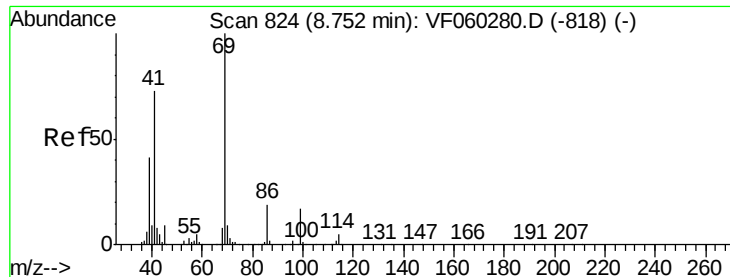
5000

0

7.70 7.75 7.80 7.85

Time-->





#56

Ethyl methacrylate

Concen: 9.551 ug/l

RT: 8.75 min Scan# 824

Delta R.T. -0.00 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

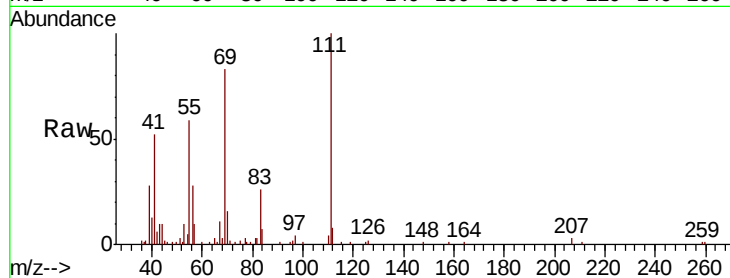
MSVOA_F

ClientSampleId :

PL-01-092718-B

Tot Ion: 69 Resp: 26959

Ion	Ratio	Lower	Upper
69	100		
41	62.8	59.4	89.2
39	33.9	33.5	50.3

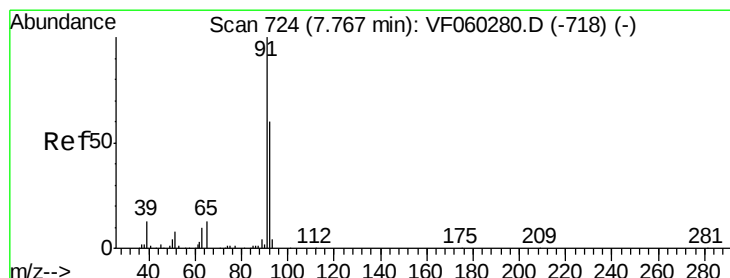
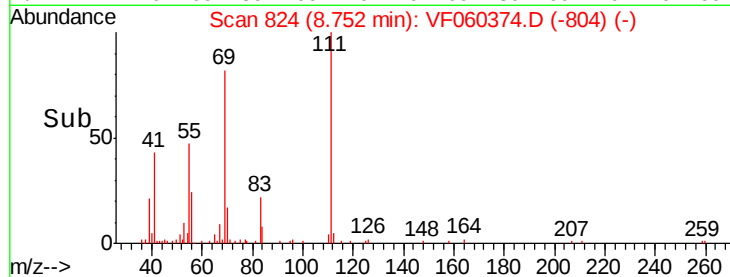


Abundance

Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 15.939 ug/l

RT: 7.77 min Scan# 724

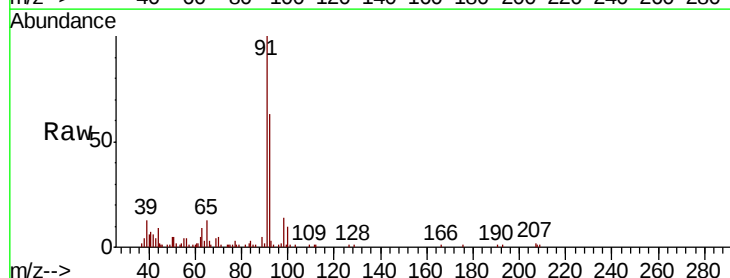
Delta R.T. -0.00 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Tgt Ion: 63 Resp: 3977

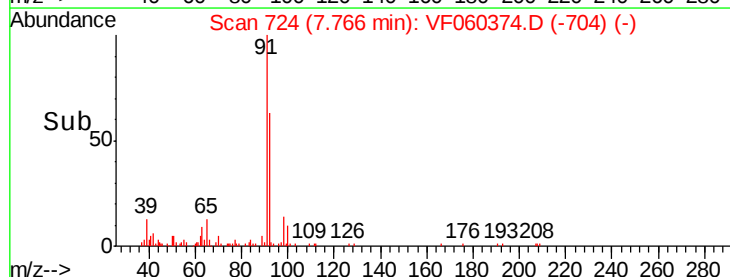
Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0

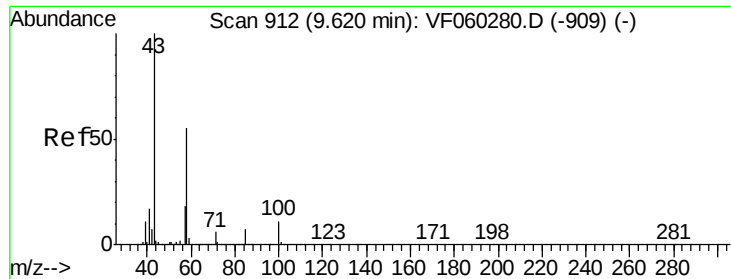


Abundance

Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

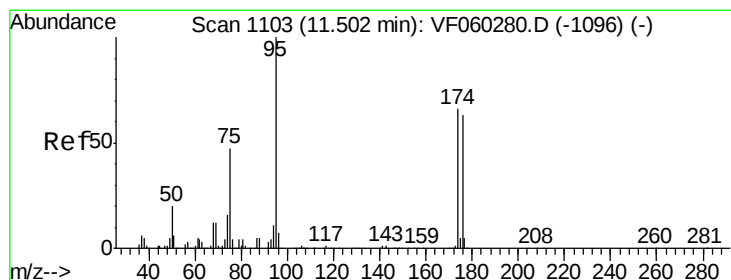
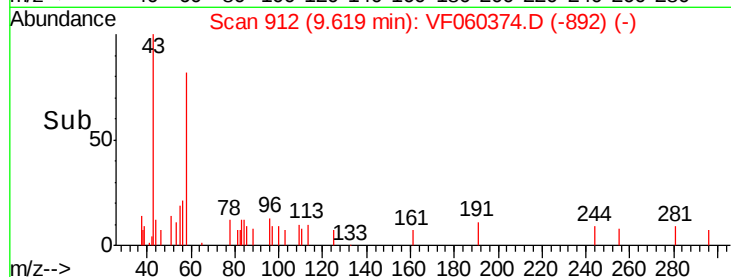
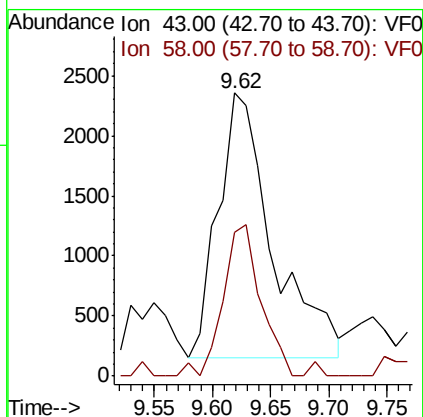
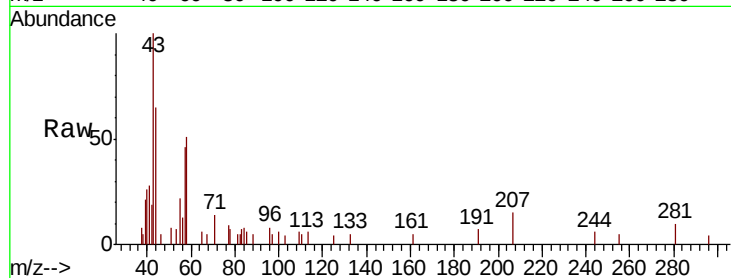




#59
2-Hexanone
Concen: 4.733 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

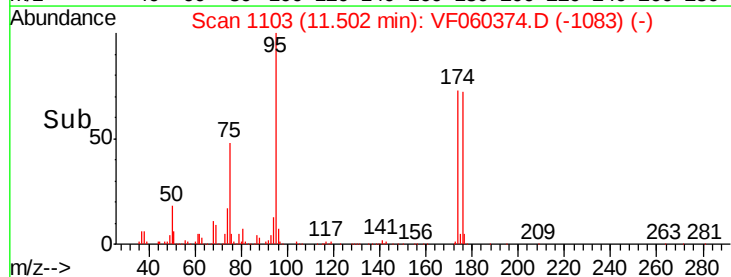
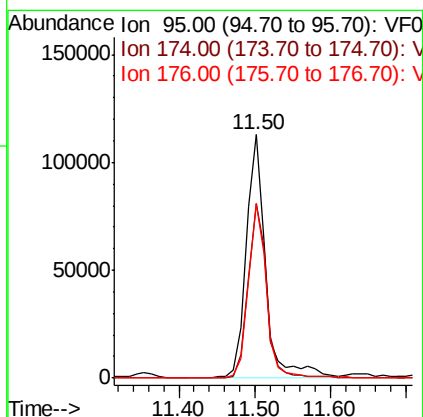
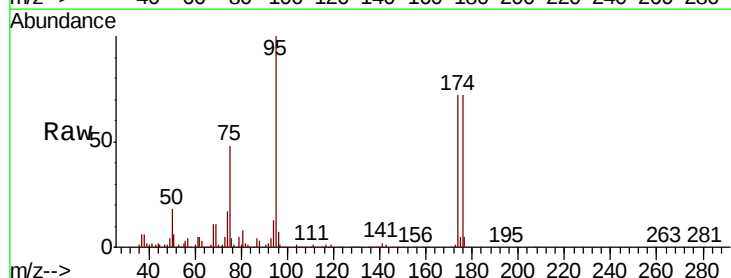
Instrument :
MSVOA_F
ClientSampleId :
PL-01-092718-B

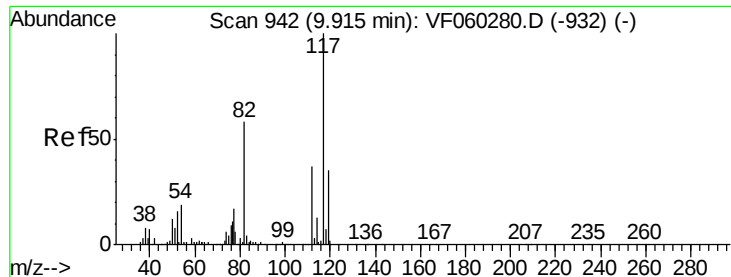
Tot Ion: 43 Resp: 7102
Ion Ratio Lower Upper
43 100
58 51.0 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 45.956 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

Tgt Ion: 95 Resp: 198456
Ion Ratio Lower Upper
95 100
174 71.6 0.0 131.2
176 71.6 0.0 126.6

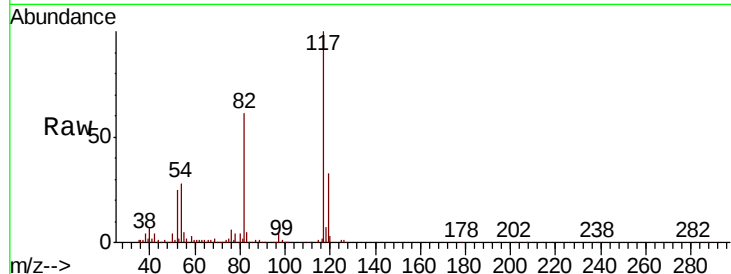




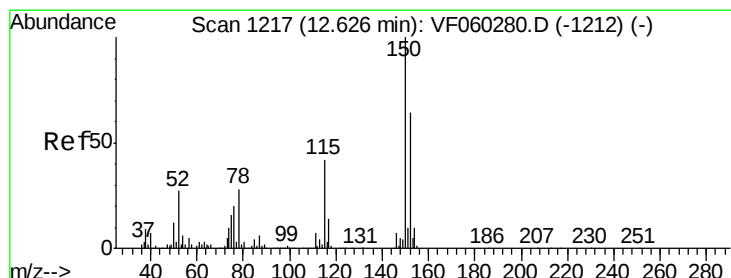
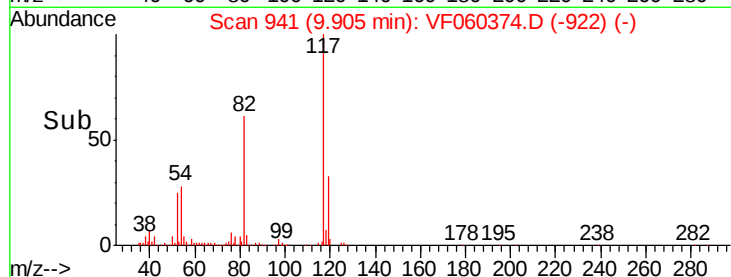
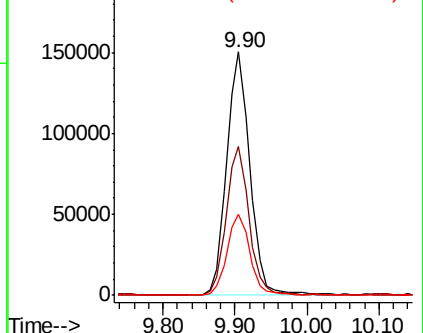
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

Instrument :
MSVOA_F
ClientSampleId :
PL-01-092718-B

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.4	46.2	69.2
119	33.4	27.8	41.6

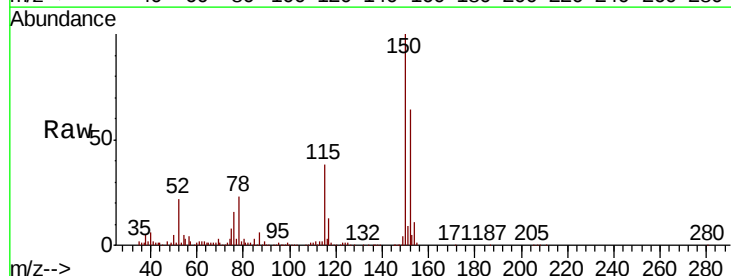


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

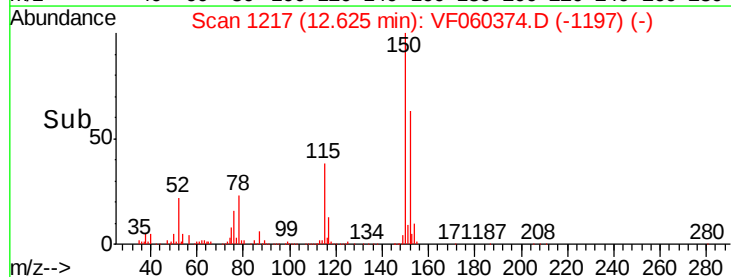
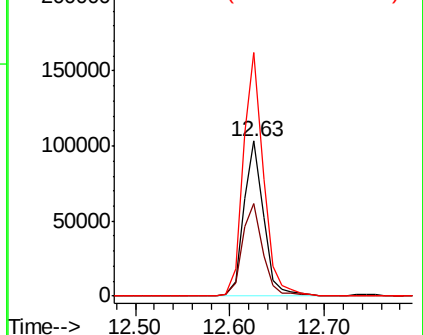


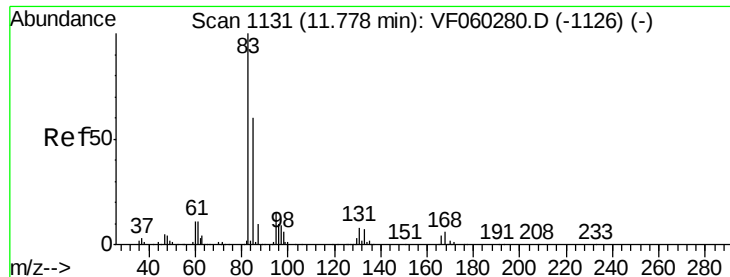
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060374.D
Acq: 28 Sep 2018 18:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.7	32.6	97.8
150	157.0	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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.892 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-B

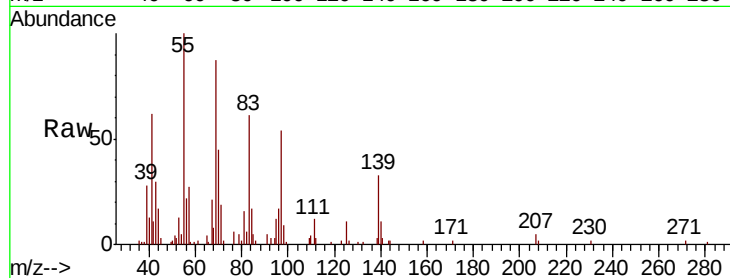
Tot Ion: 83 Resp: 6921

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

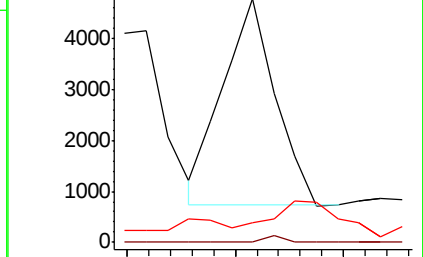
85 8.1 30.1 90.5#



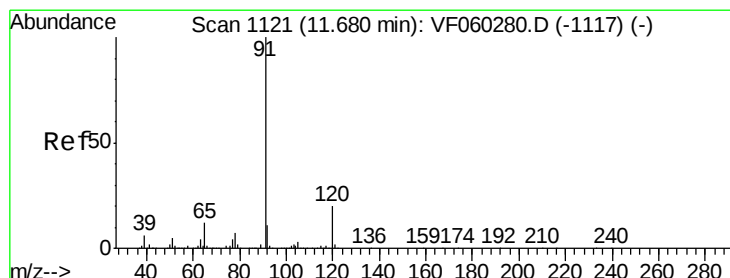
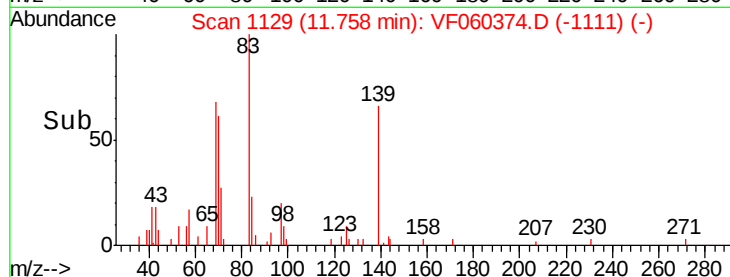
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



Time-->



#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF060374.D

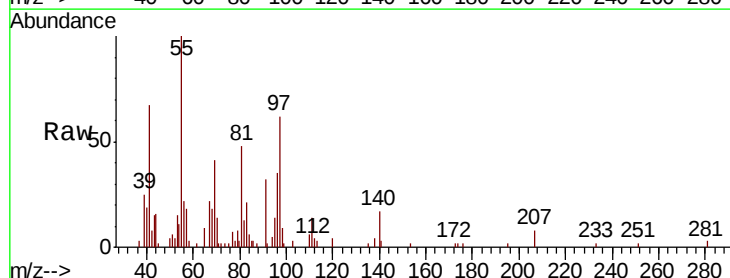
Acq: 28 Sep 2018 18:31

Tgt Ion: 91 Resp: 2693

Ion Ratio Lower Upper

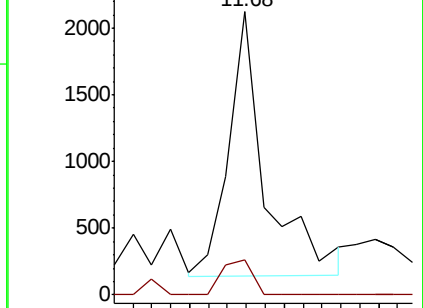
91 100

120 12.5 10.0 29.8

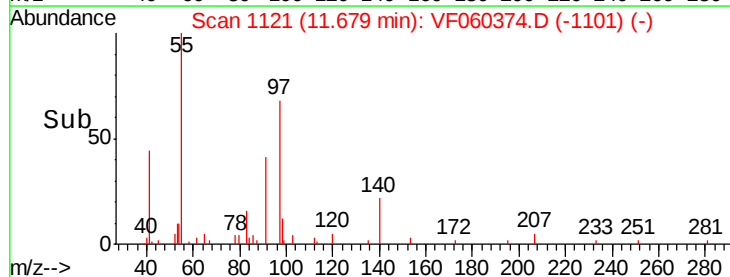


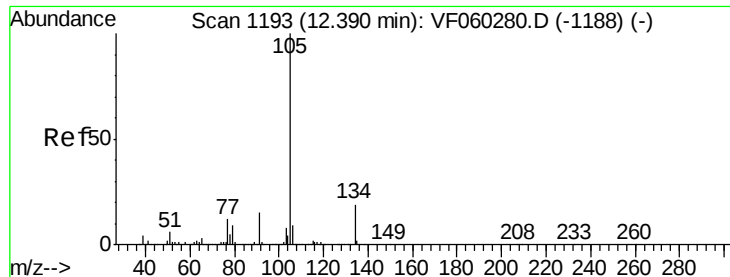
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



Time-->





#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

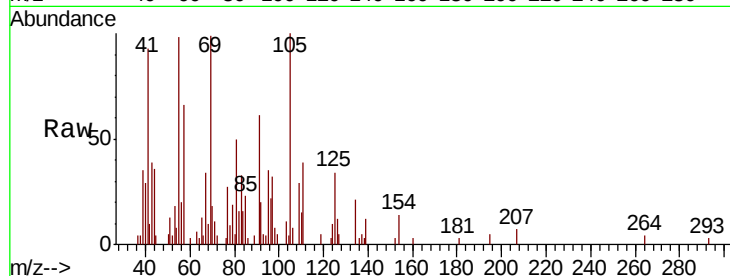
PL-01-092718-B

Tot Ion:105 Resp: 5298

Ion Ratio Lower Upper

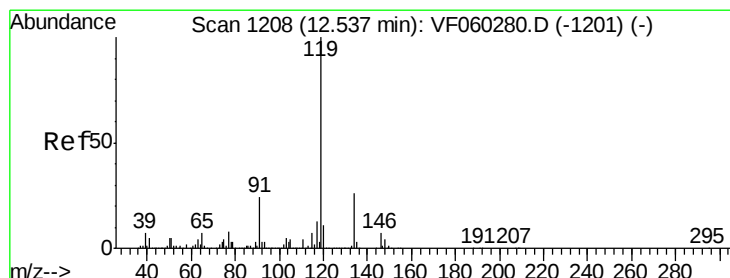
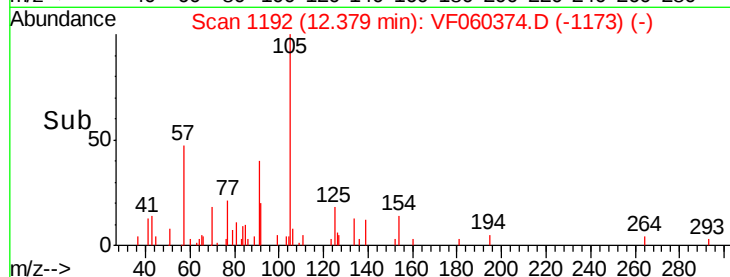
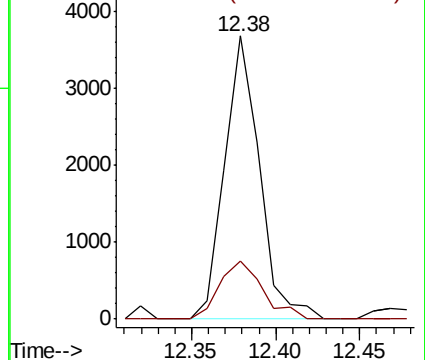
105 100

134 20.5 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: VF060374.D

Acq: 28 Sep 2018 18:31

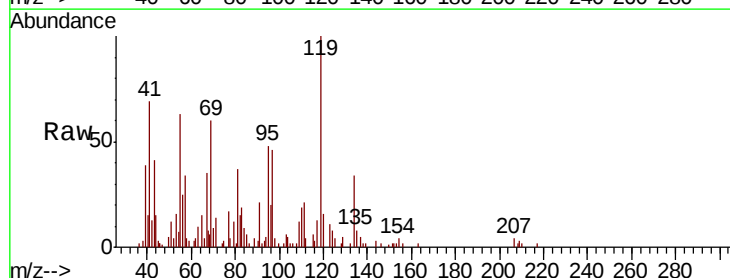
Tgt Ion:119 Resp: 11528

Ion Ratio Lower Upper

119 100

134 33.9 12.9 38.7

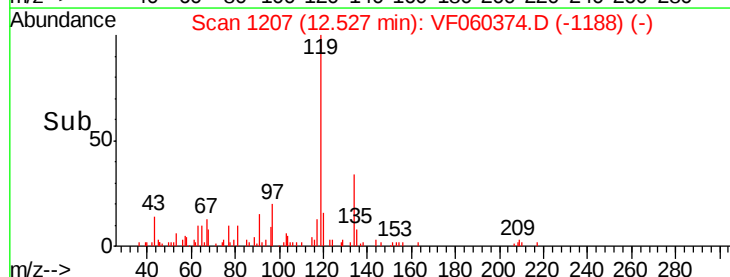
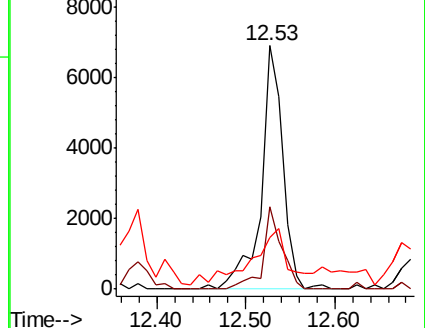
91 21.4 11.9 35.7

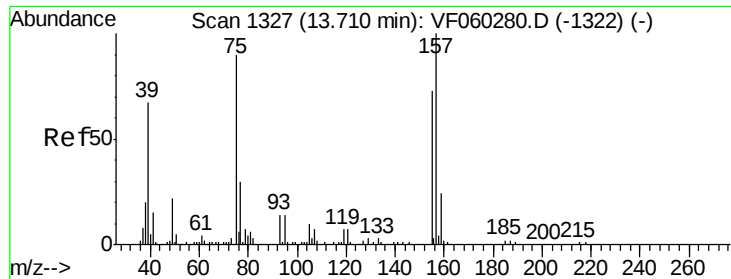


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.631 ug/l

RT: 13.69 min Scan# 1325

Delta R.T. -0.02 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-B

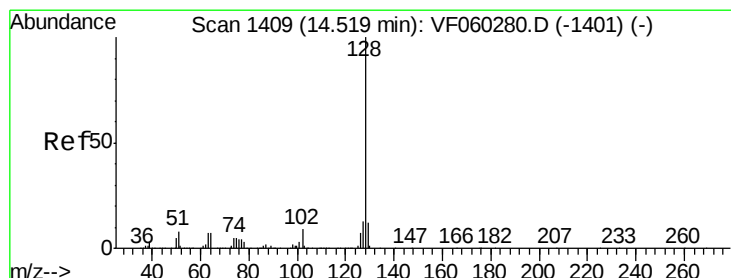
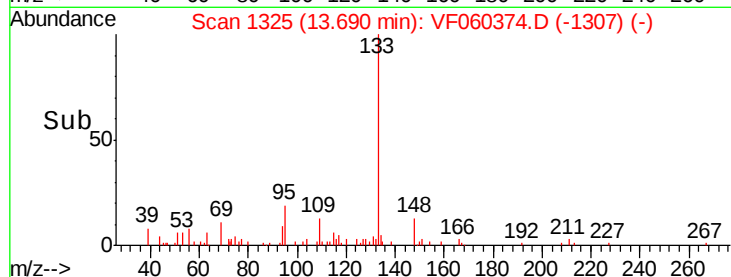
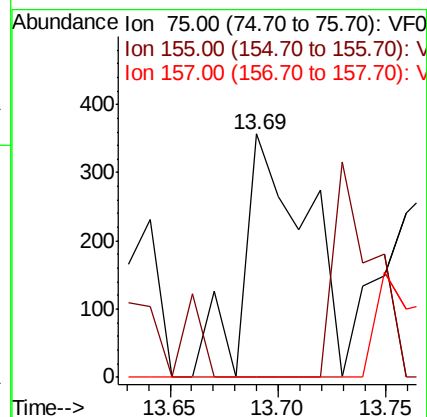
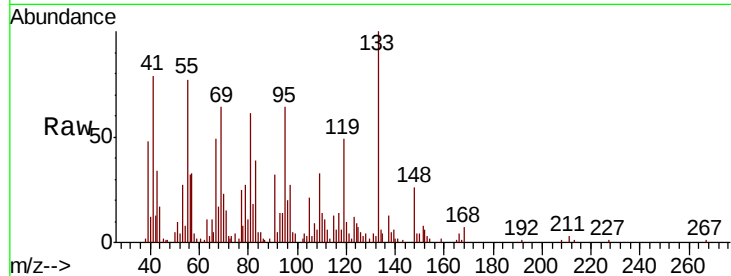
Tot Ion: 75 Resp: 733

Ion Ratio Lower Upper

75 100

155 0.0 41.9 125.7#

157 0.0 57.4 172.0#



#95

Naphthalene

Concen: 1.403 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VF060374.D

Acq: 28 Sep 2018 18:31

Tgt Ion: 128 Resp: 9277

Ion Ratio Lower Upper

128 100

127 19.0 10.1 15.1#

129 33.0 9.8 14.8#

