

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060376.D
 Acq On : 28 Sep 2018 19:26
 Operator : VA/AP
 Sample : J4777-39
 Misc : 6.74/5mL/MSVOA F/SOIL
 ALS Vial : 39 Sample Multiplier: 1

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

Quant Time: Sep 29 00:18:33 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

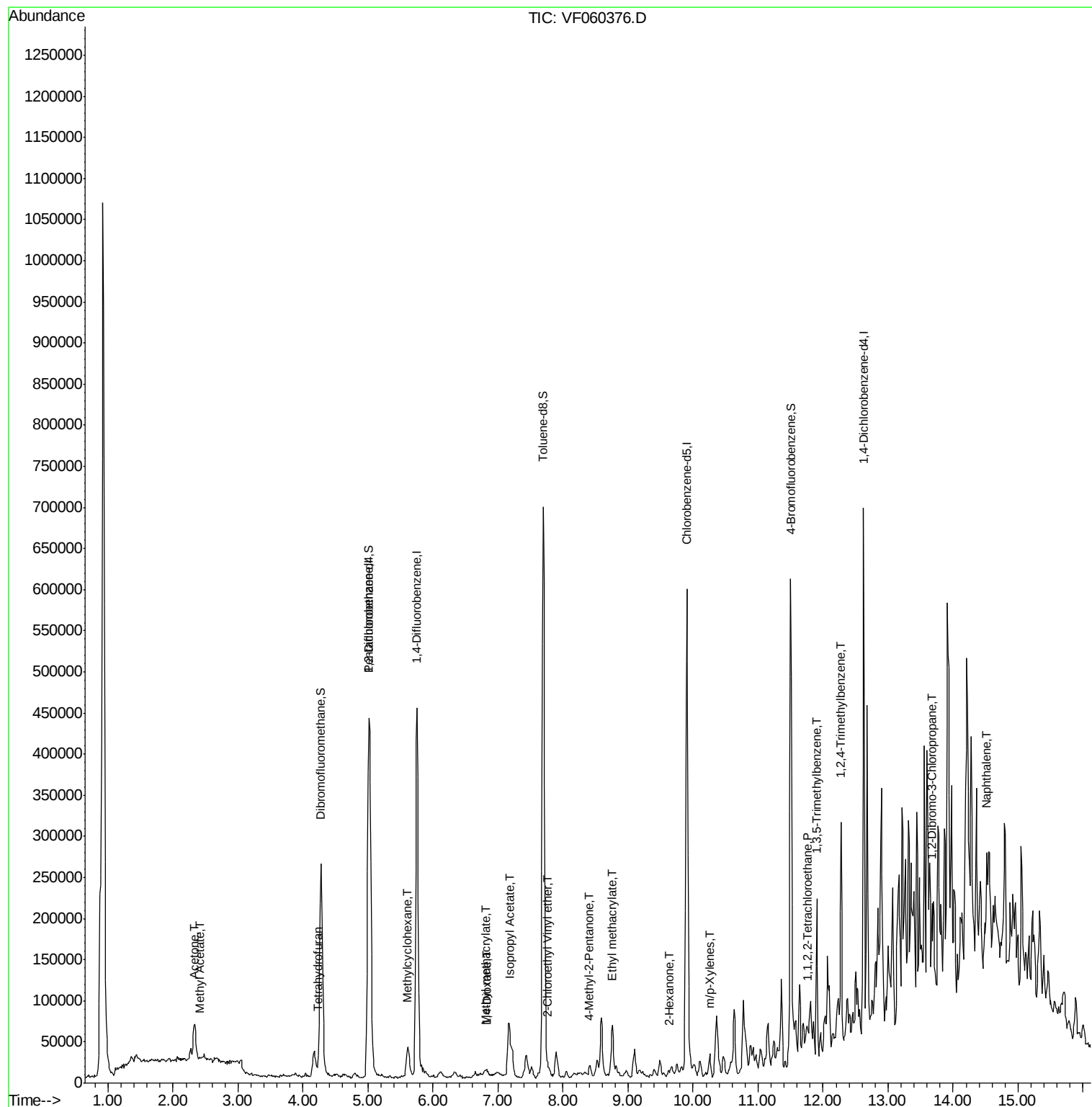
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	288827	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	488115	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	379525	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	153744	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	238477	61.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.64%	
35) Dibromofluoromethane	4.27	113	255481	58.72	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	117.44%	
50) Toluene-d8	7.69	98	546596	48.24	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	96.48%	
62) 4-Bromofluorobenzene	11.50	95	204931	41.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.68%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	222	Below Cal	#	1
5) Bromomethane	1.41	94	566	Below Cal		85
11) Tert butyl alcohol	2.68	59	3043	Below Cal		98
13) Acrolein	2.04	56	1236	Below Cal	#	31
16) Acetone	2.32	43	63348	57.838	ug/l	97
17) Carbon Disulfide	1.87	76	610	Below Cal		96
18) Methyl Acetate	2.42	43	1930	1.058	ug/l #	73
20) Methylene Chloride	2.27	84	6056	Below Cal	#	67
29) Tetrahydrofuran	4.22	42	684	1.267	ug/l #	50
39) Methylcyclohexane	5.61	83	25675	3.891	ug/l	95
43) Isopropyl Acetate	7.18	43	5271	1.700	ug/l #	48
48) Methyl methacrylate	6.81	41	4627	2.125	ug/l #	63
49) 1,4-Dioxane	6.83	88	226	11.619	ug/l #	48
51) 4-Methyl-2-Pentanone	8.39	43	9810	4.104	ug/l #	63
56) Ethyl methacrylate	8.76	69	27323	8.535	ug/l #	77
58) 2-Chloroethyl Vinyl ether	7.76	63	625	2.208	ug/l	100
59) 2-Hexanone	9.63	43	4830	2.838	ug/l	85
68) m/p-Xylenes	10.26	106	8772	1.596	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.75	83	7485	3.060	ug/l #	37
78) n-propylbenzene	11.68	91	9990	Below Cal		81
80) 1,3,5-Trimethylbenzene	11.90	105	79341	7.141	ug/l	90
84) 1,2,4-Trimethylbenzene	12.28	105	83127	7.368	ug/l	93
85) sec-Butylbenzene	12.38	105	21085	Below Cal	#	78
86) p-Isopropyltoluene	12.50	119	30083	Below Cal		93
89) n-Butylbenzene	12.90	91	32602	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	13.67	75	1228	2.674	ug/l #	1
95) Naphthalene	14.51	128	37935	5.614	ug/l #	89

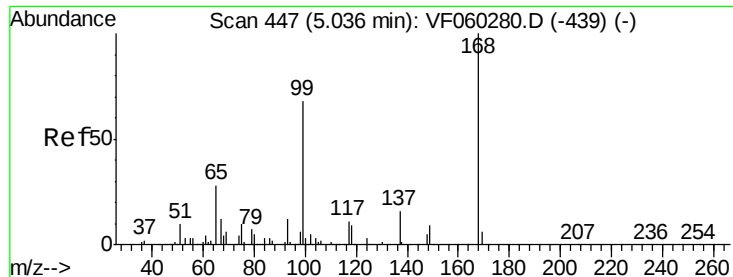
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

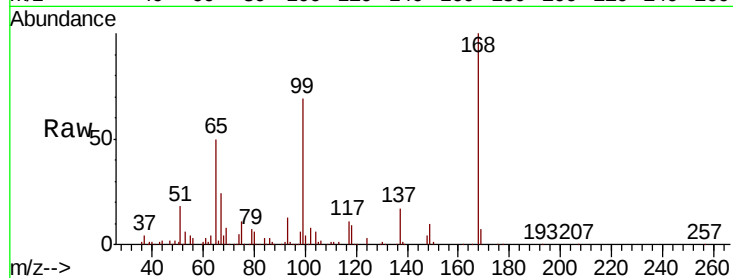
PL-01-092718-D

Tot Ion:168 Resp: 288827

Ion Ratio Lower Upper

168 100

99 68.9 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

100000

80000

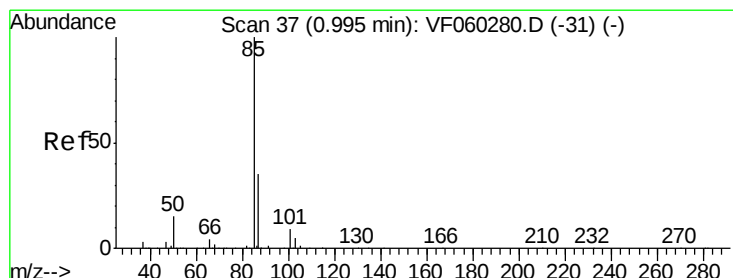
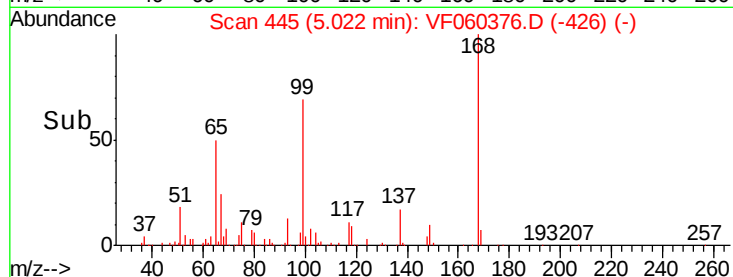
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060376.D

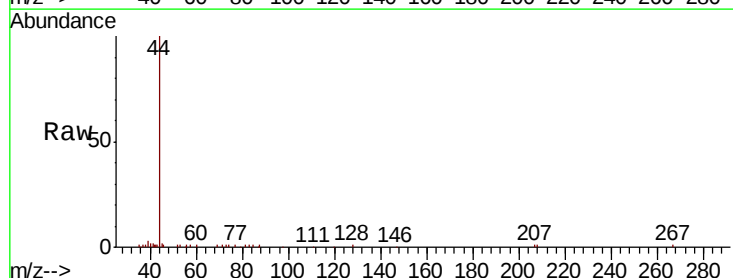
Acq: 28 Sep 2018 19:26

Tgt Ion: 85 Resp: 222

Ion Ratio Lower Upper

85 100

87 104.1 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

300

250

200

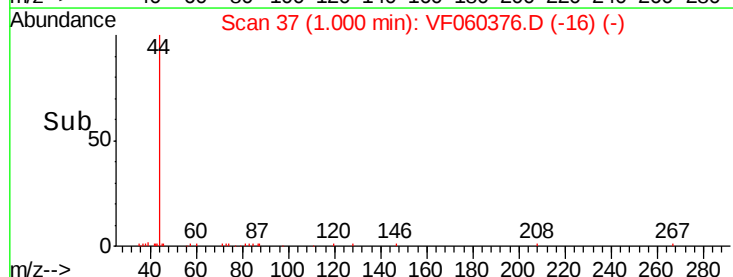
150

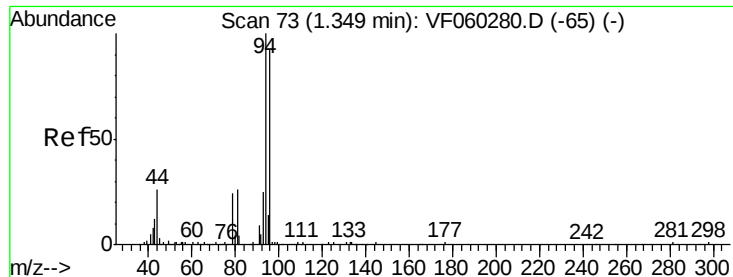
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 79

Delta R.T. 0.07 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

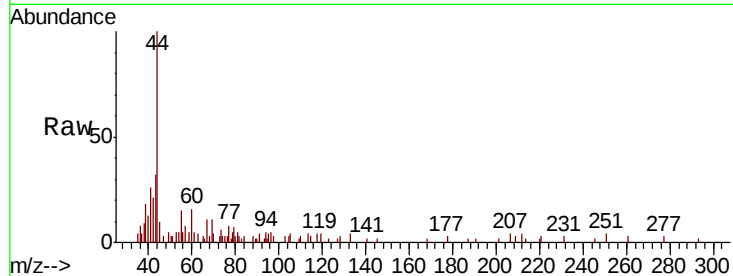
PL-01-092718-D

Tot Ion: 94 Resp: 566

Ion Ratio Lower Upper

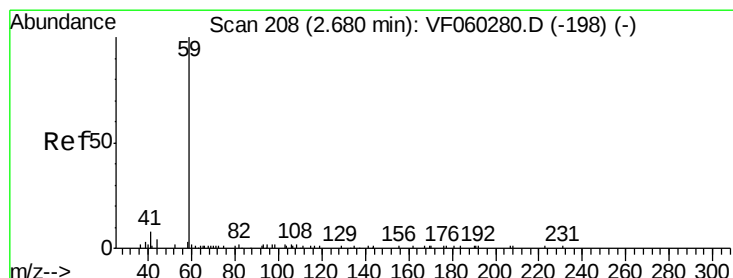
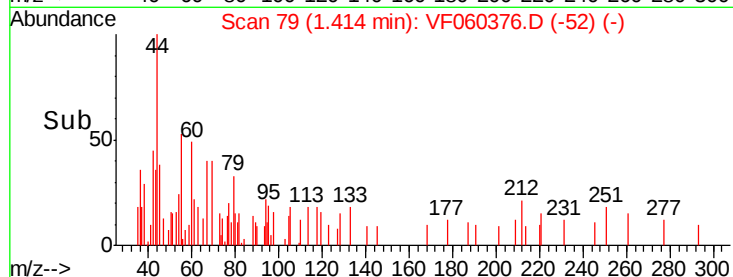
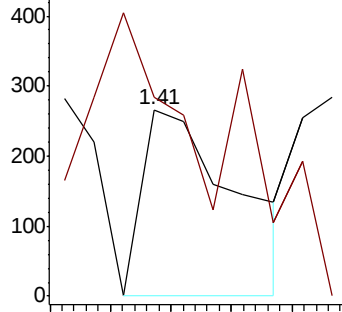
94 100

96 106.8 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.68 min Scan# 207

Delta R.T. -0.00 min

Lab File: VF060376.D

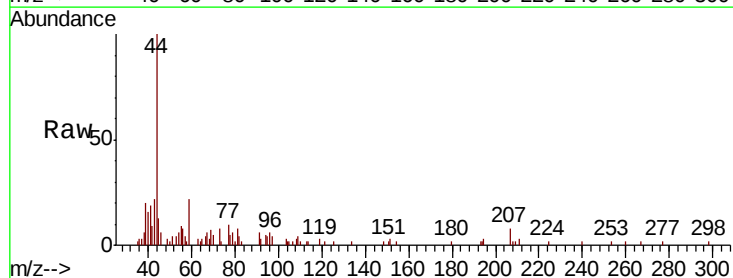
Acq: 28 Sep 2018 19:26

Tgt Ion: 59 Resp: 3043

Ion Ratio Lower Upper

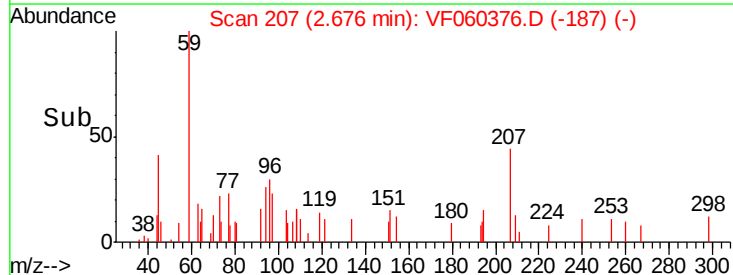
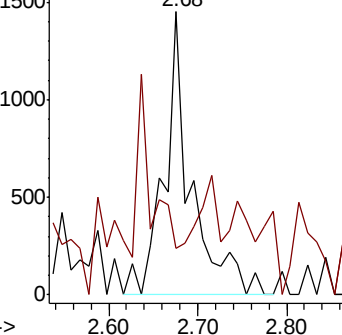
59 100

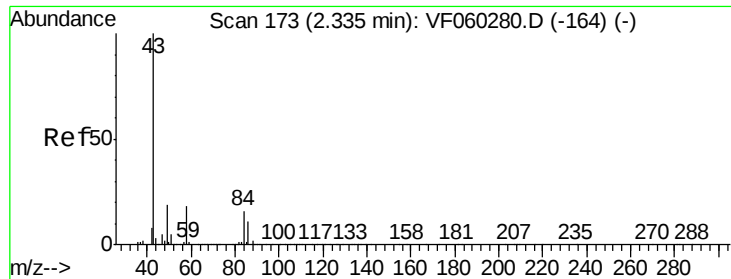
57 16.3 12.4 18.6



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

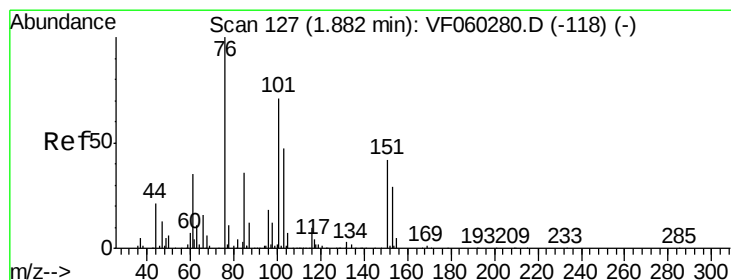
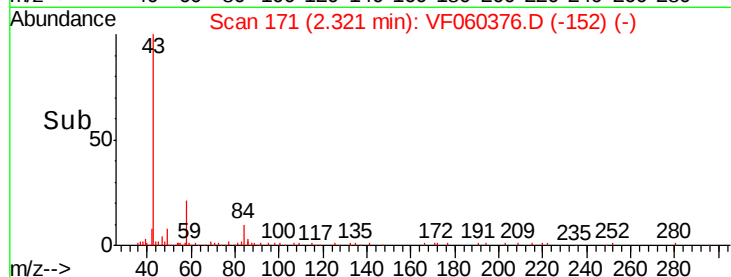
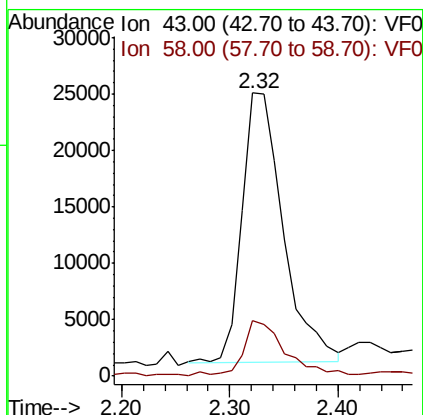
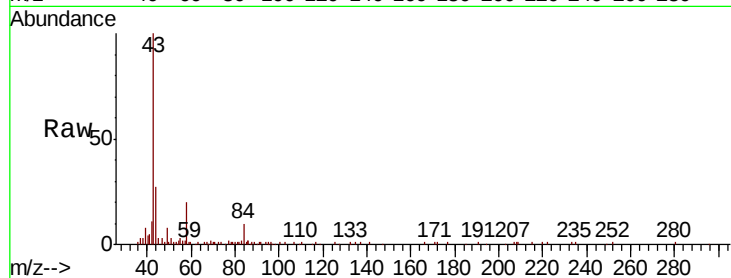




#16
Acetone
Concen: 57.838 ug/l
RT: 2.32 min Scan# 171
Delta R.T. -0.01 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

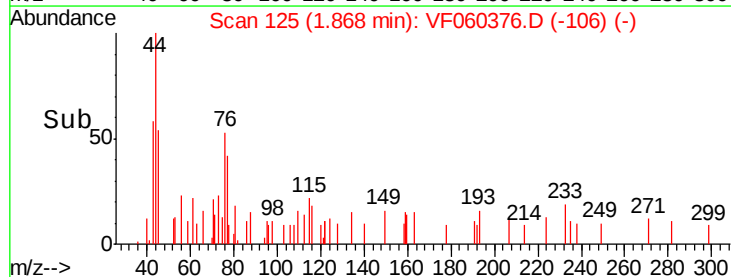
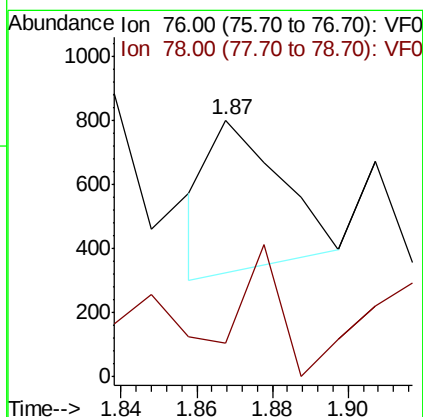
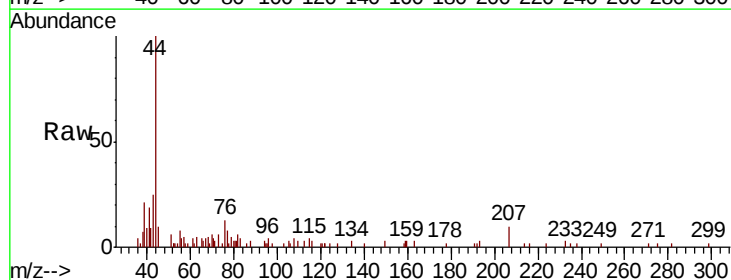
Instrument :
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PL-01-092718-D

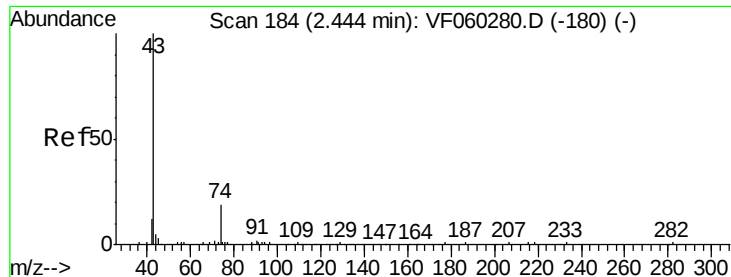
Tot Ion: 43 Resp: 63348
Ion Ratio Lower Upper
43 100
58 19.6 14.5 21.7



#17
Carbon Disulfide
Concen: Below Cal
RT: 1.87 min Scan# 125
Delta R.T. -0.01 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

Tgt Ion: 76 Resp: 610
Ion Ratio Lower Upper
76 100
78 13.1 9.4 14.0

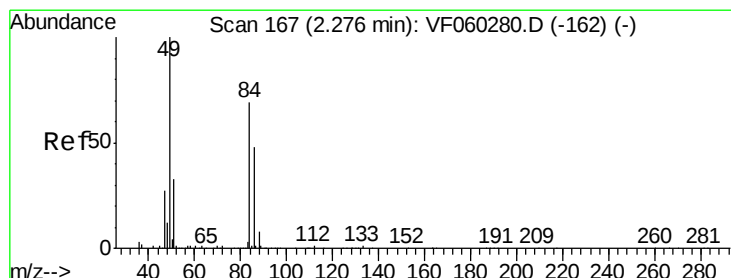
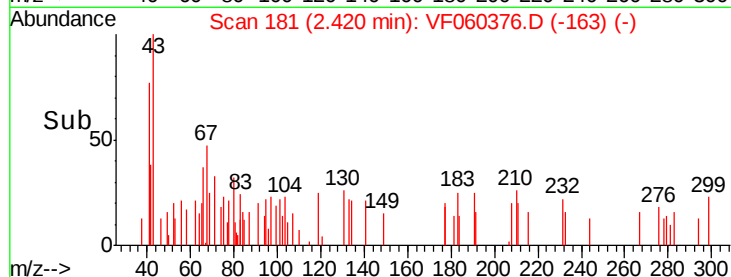
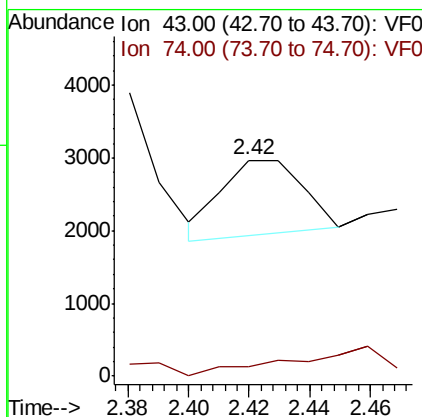
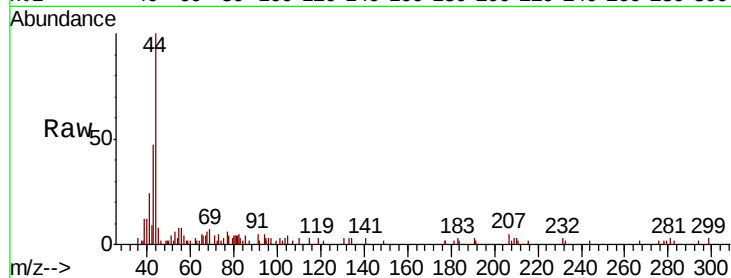




#18
Methyl Acetate
Concen: 1.058 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

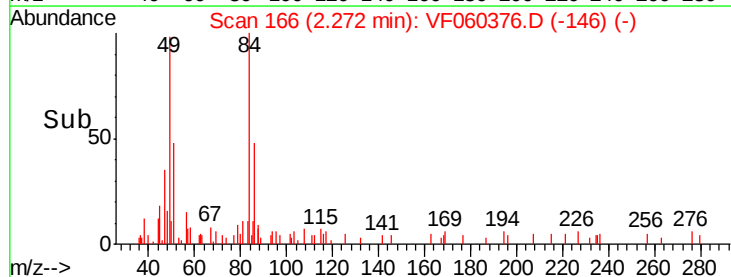
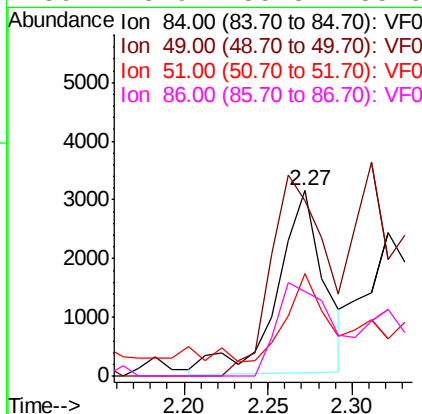
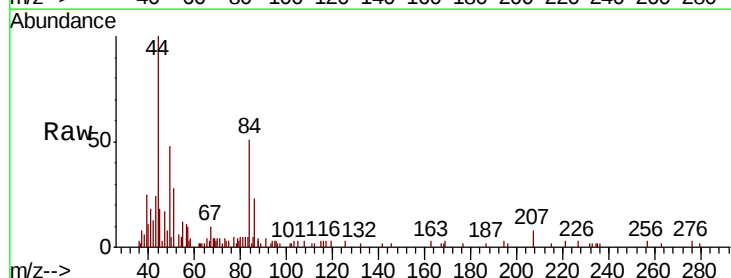
Instrument :
MSVOA_F
ClientSampleId :
PL-01-092718-D

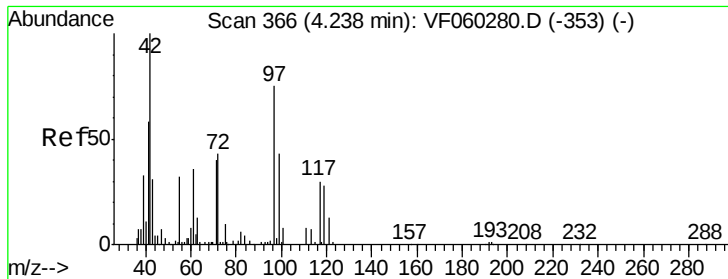
Tot Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
74 4.6 12.7 19.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.00 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

Tgt Ion: 84 Resp: 6056
Ion Ratio Lower Upper
84 100
49 94.6 118.3 177.5#
51 55.0 38.7 58.1
86 45.9 55.8 83.6#

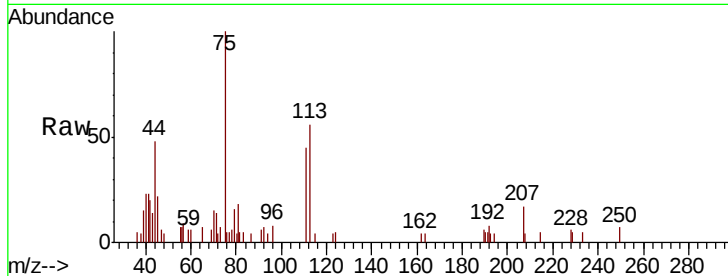




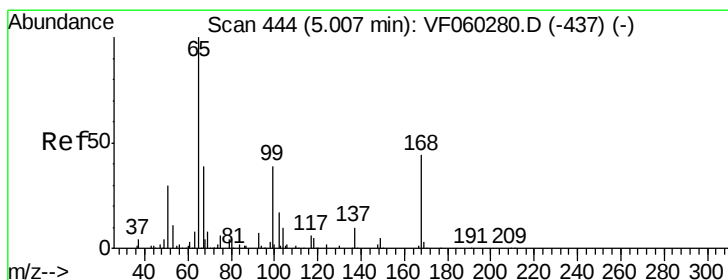
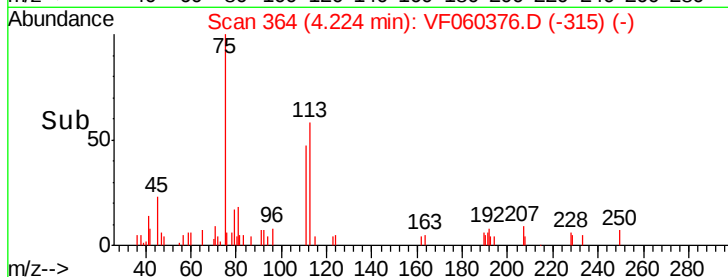
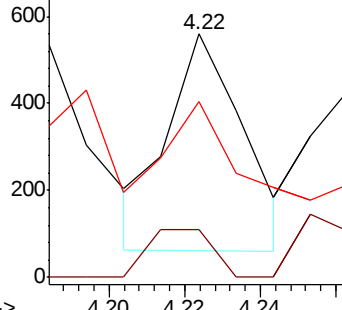
#29
Tetrahydrofuran
Concen: 1.267 ug/l
RT: 4.22 min Scan# 364
Delta R.T. -0.01 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

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

Tot Ion: 42 Resp: 684
Ion Ratio Lower Upper
42 100
72 19.2 32.6 49.0#
71 0.0 32.7 49.1#

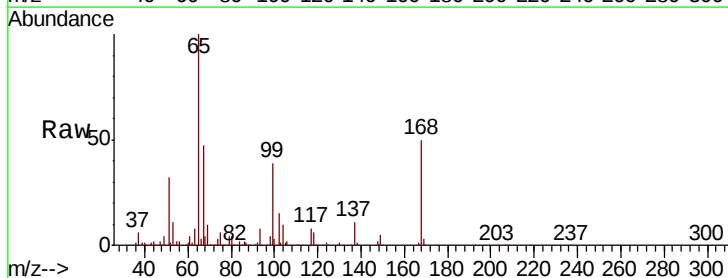


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

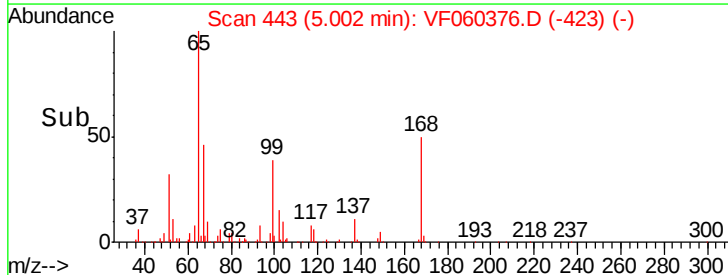
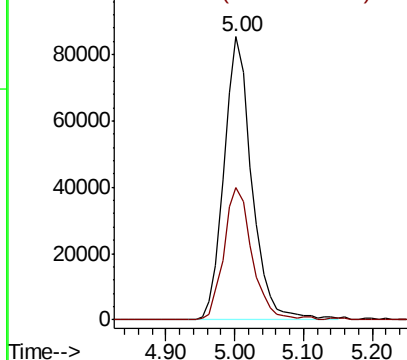


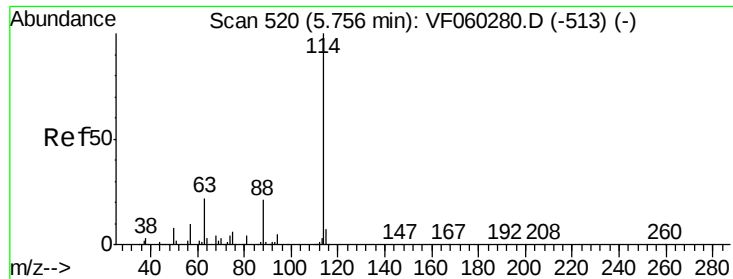
#33
1,2-Dichloroethane-d4
Concen: 61.319 ug/l
RT: 5.00 min Scan# 443
Delta R.T. -0.00 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

Tgt Ion: 65 Resp: 238477
Ion Ratio Lower Upper
65 100
67 46.6 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.00 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-D

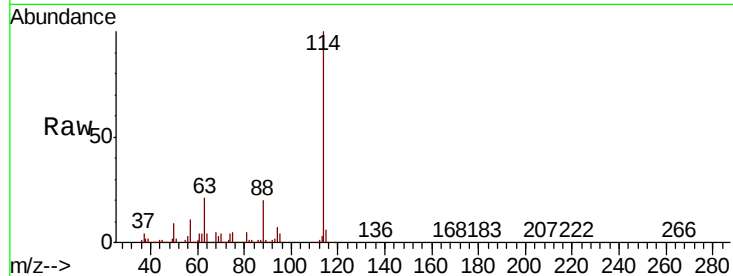
Tot Ion:114 Resp: 488115

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.8

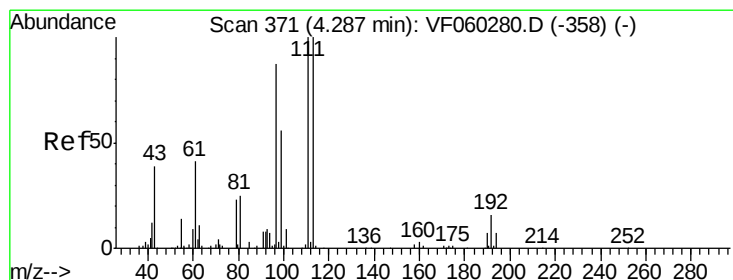
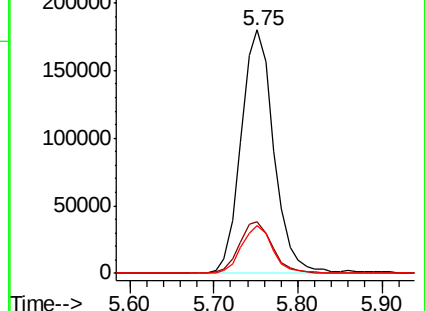
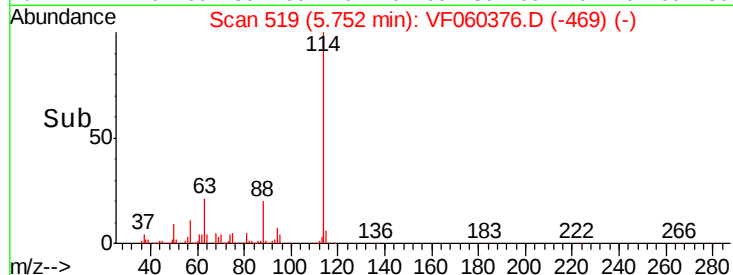
88 19.6 0.0 41.2



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: 58.715 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.01 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

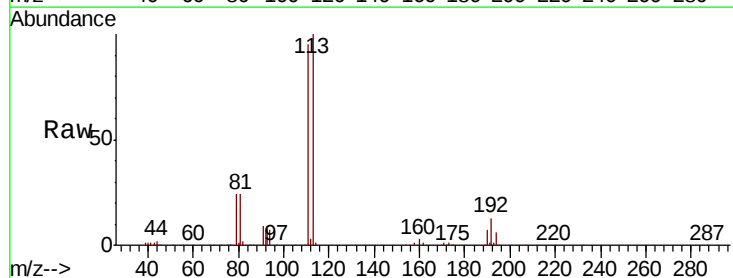
Tgt Ion:113 Resp: 255481

Ion Ratio Lower Upper

113 100

111 94.8 79.6 119.4

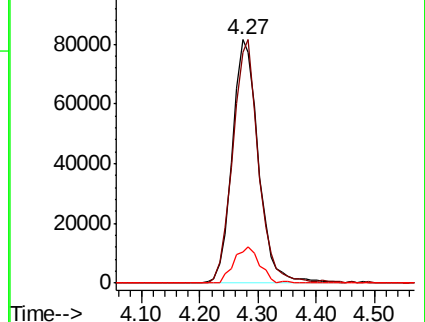
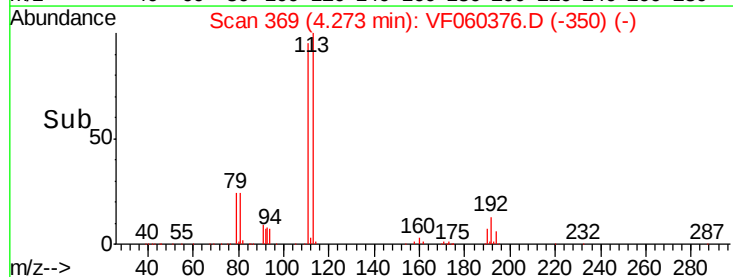
192 12.8 13.0 19.6#

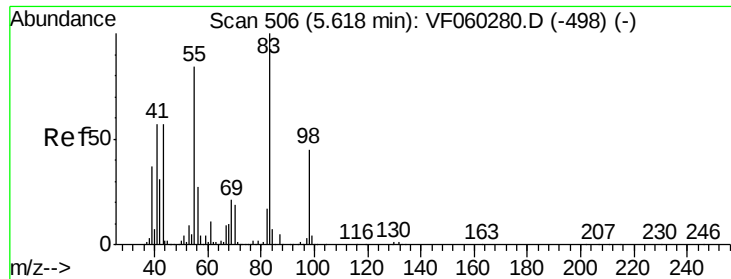


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#39

Methylcyclohexane

Concen: 3.891 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.00 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-D

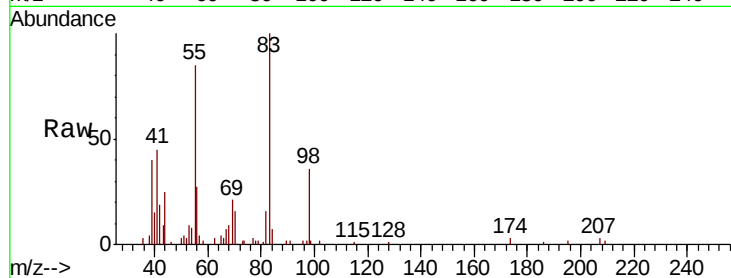
Tot Ion: 83 Resp: 25675

Ion Ratio Lower Upper

83 100

55 85.1 67.3 100.9

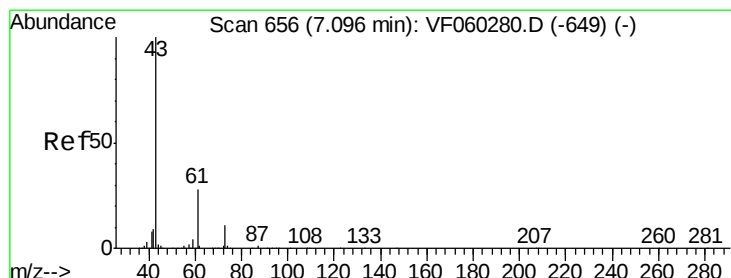
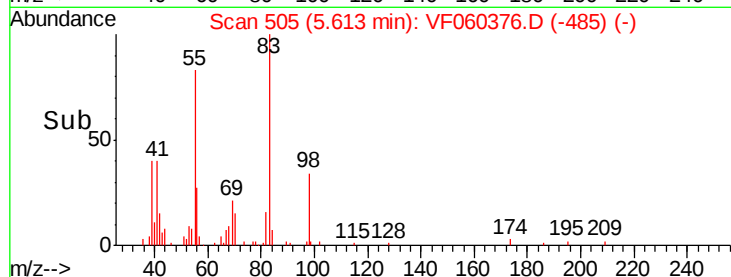
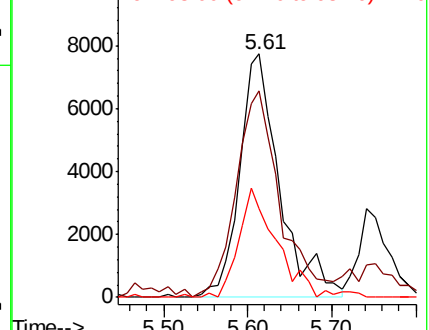
98 36.4 36.1 54.1



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



#43

Isopropyl Acetate

Concen: 1.700 ug/l

RT: 7.18 min Scan# 664

Delta R.T. 0.08 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

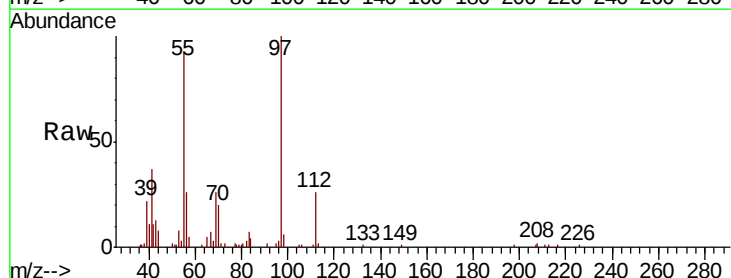
Tgt Ion: 43 Resp: 5271

Ion Ratio Lower Upper

43 100

61 0.0 22.4 33.6#

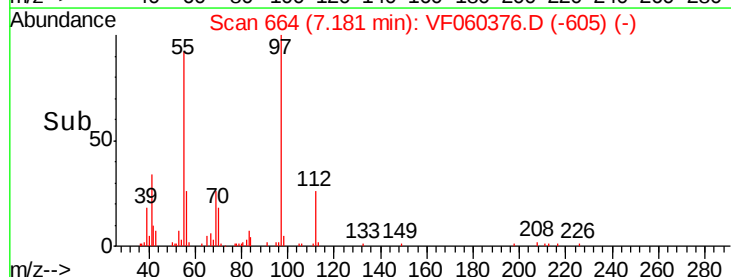
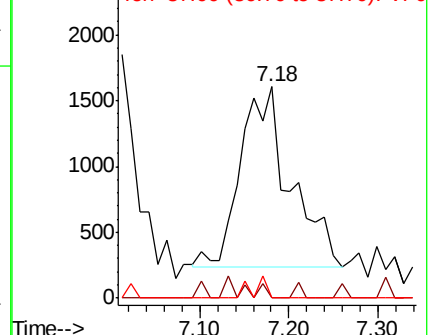
87 0.0 0.6 0.8#

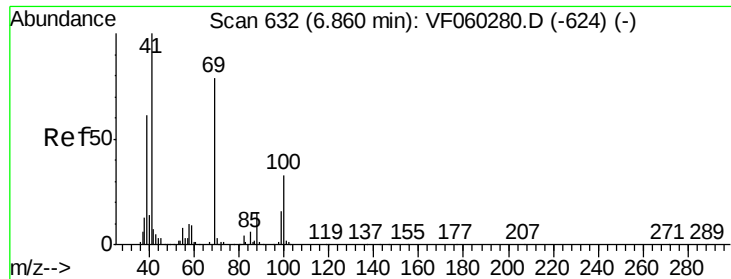


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

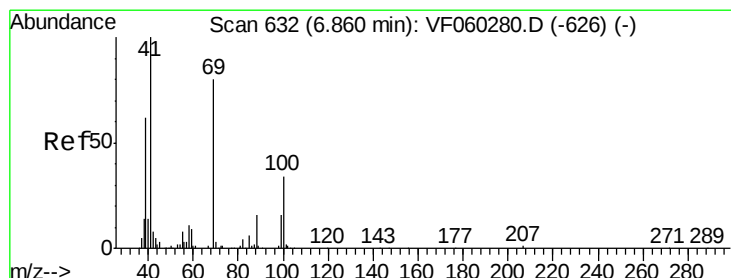
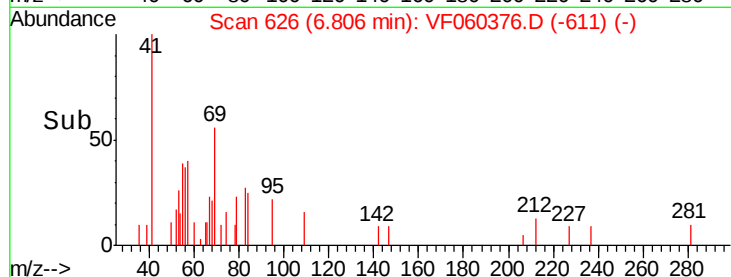
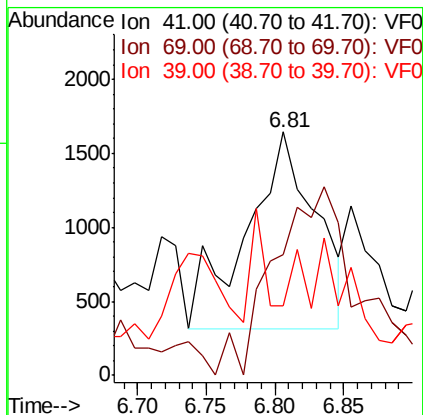
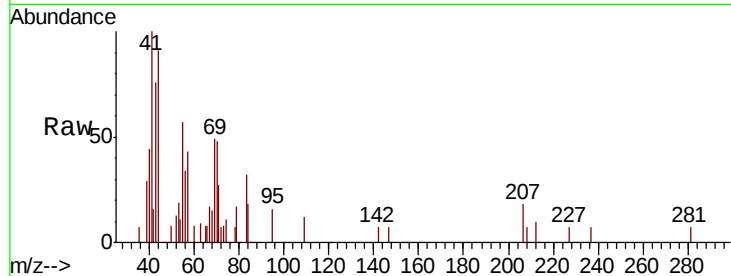




#48
Methyl methacrylate
Concen: 2.125 ug/l
RT: 6.81 min Scan# 626
Delta R.T. -0.05 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

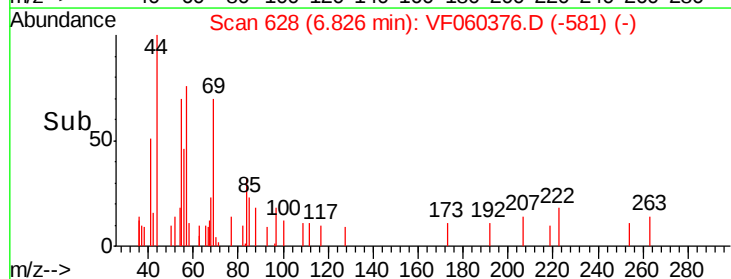
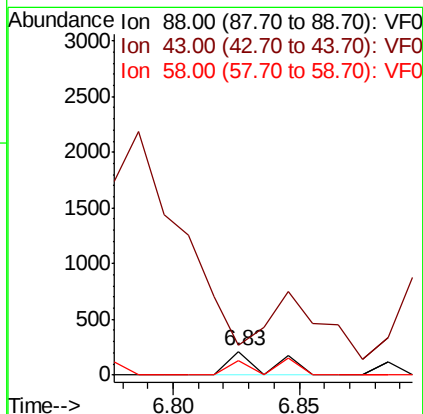
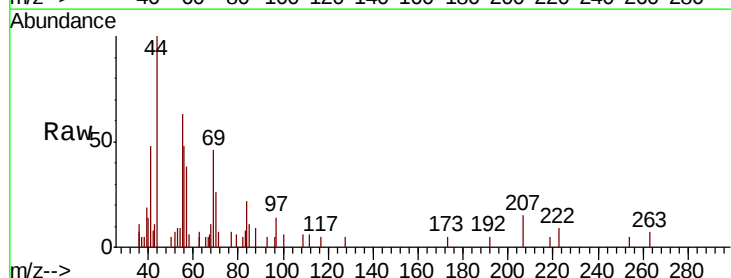
Instrument :
MSVOA_F
ClientSampleId :
PL-01-092718-D

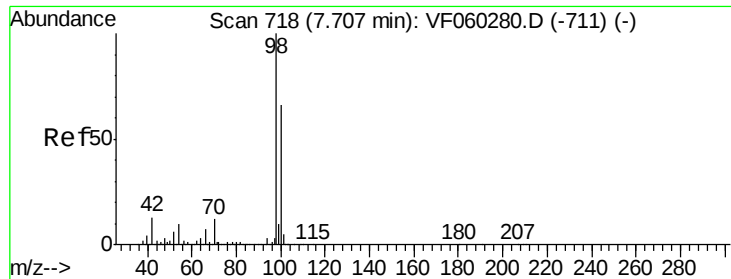
Tot Ion: 41 Resp: 4627
Ion Ratio Lower Upper
41 100
69 49.4 62.6 94.0#
39 28.5 49.1 73.7#



#49
1,4-Dioxane
Concen: 11.619 ug/l
RT: 6.83 min Scan# 628
Delta R.T. -0.03 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

Tgt Ion: 88 Resp: 226
Ion Ratio Lower Upper
88 100
43 126.1 40.2 60.4#
58 61.6 56.7 85.1





#50

Toluene-d8

Concen: 48.237 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.01 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

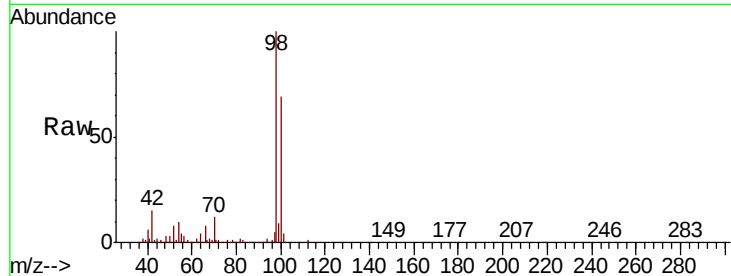
PL-01-092718-D

Tot Ion: 98 Resp: 546596

Ion Ratio Lower Upper

98 100

100 68.9 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

250000

200000

150000

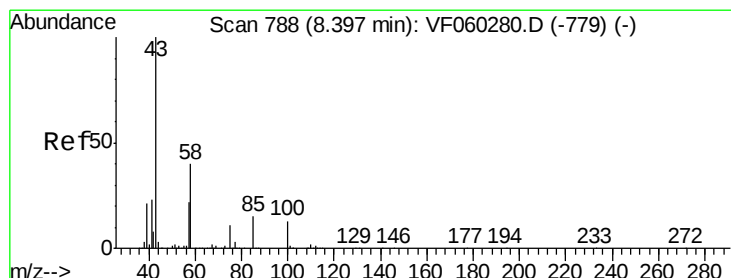
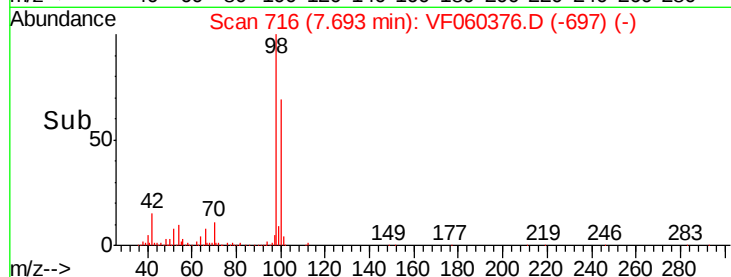
100000

50000

0

7.60 7.70 7.80

Time-->



#51

4-Methyl-2-Pentanone

Concen: 4.104 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.00 min

Lab File: VF060376.D

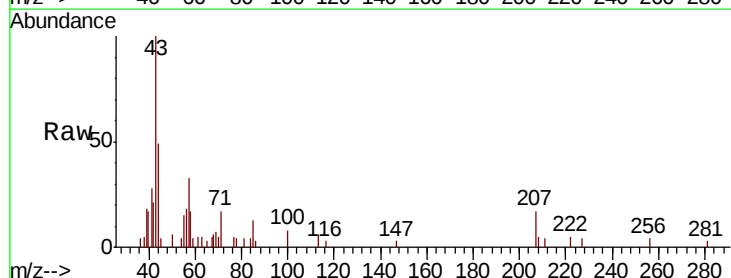
Acq: 28 Sep 2018 19:26

Tgt Ion: 43 Resp: 9810

Ion Ratio Lower Upper

43 100

58 17.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

3000

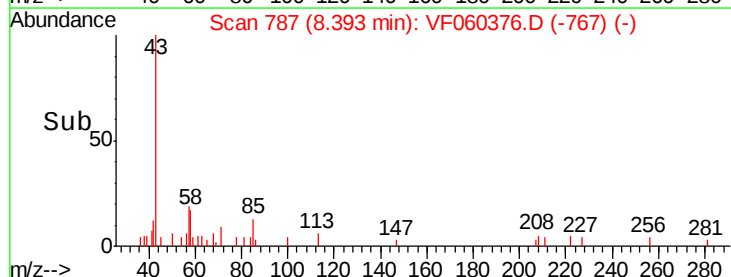
2000

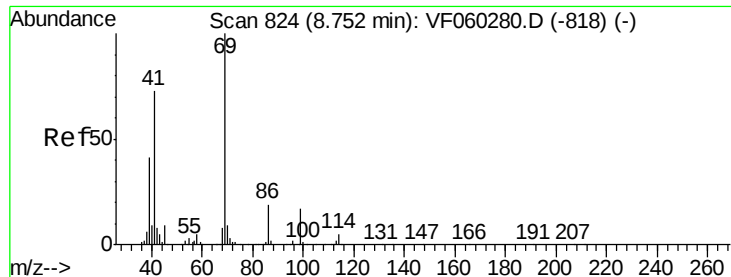
1000

0

8.30 8.40 8.50

Time-->





#56

Ethyl methacrylate

Concen: 8.535 ug/l

RT: 8.76 min Scan# 824

Delta R.T. 0.01 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-D

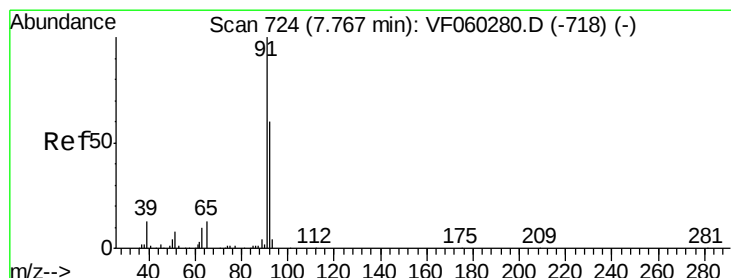
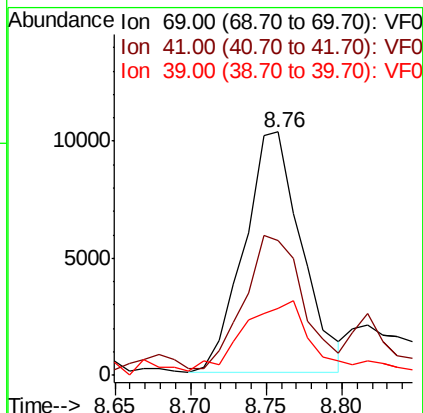
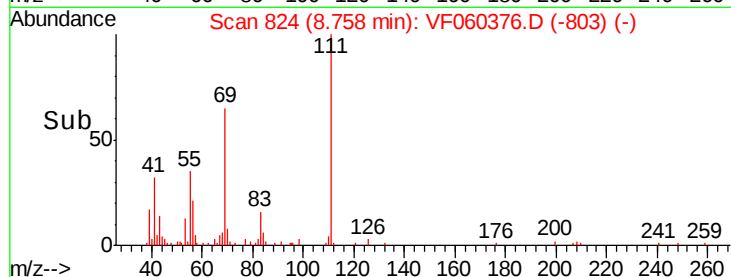
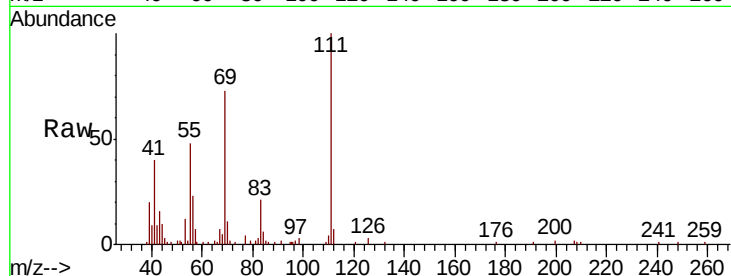
Tot Ion: 69 Resp: 27323

Ion Ratio Lower Upper

69 100

41 55.5 59.4 89.2#

39 27.4 33.5 50.3#



#58

2-Chloroethyl Vinyl ether

Concen: 2.208 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.00 min

Lab File: VF060376.D

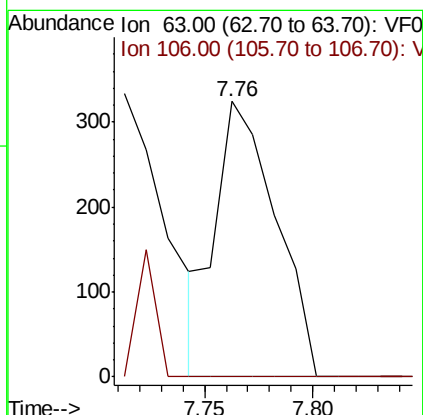
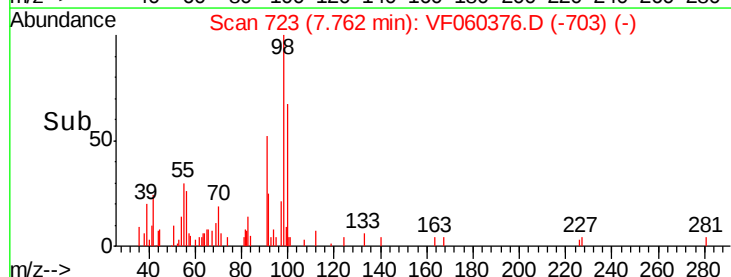
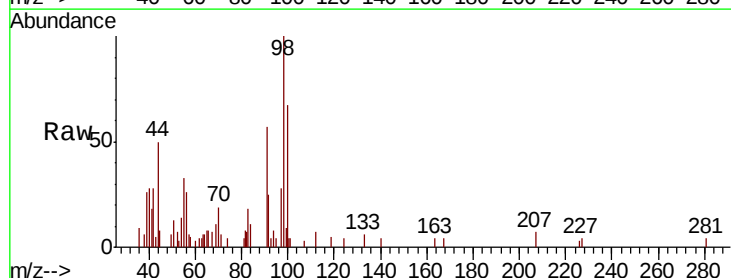
Acq: 28 Sep 2018 19:26

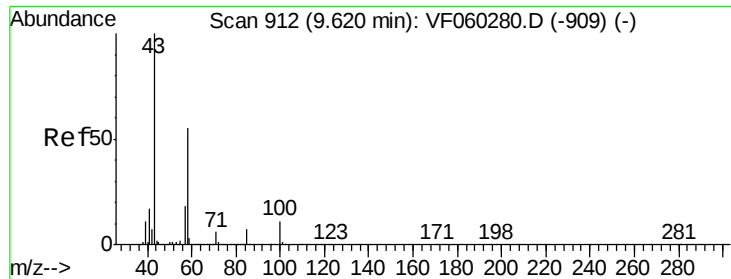
Tgt Ion: 63 Resp: 625

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

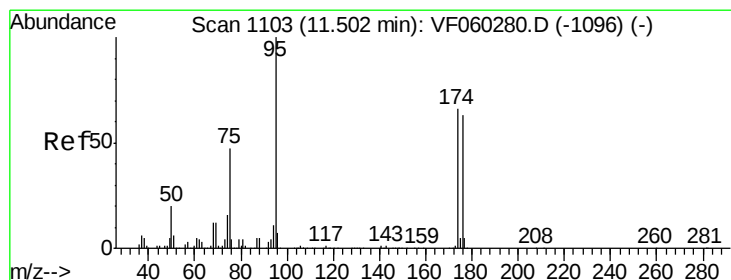
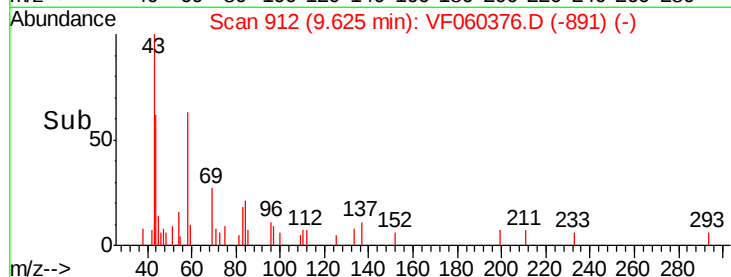
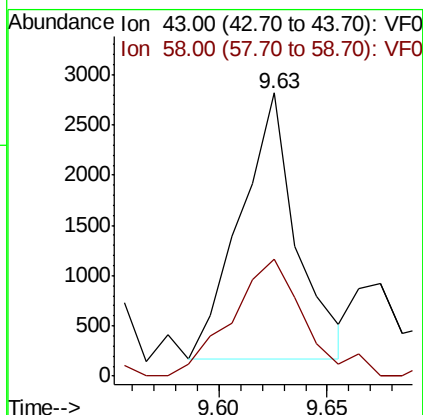
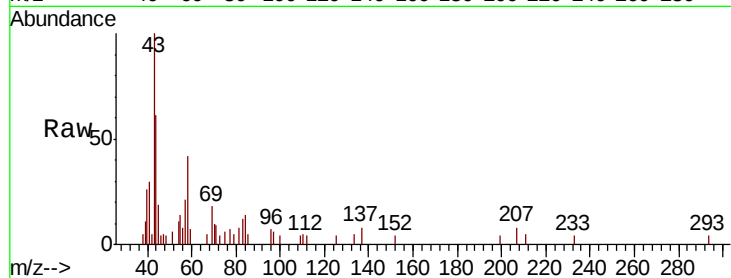




#59
2-Hexanone
Concen: 2.838 ug/l
RT: 9.63 min Scan# 912
Delta R.T. 0.01 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

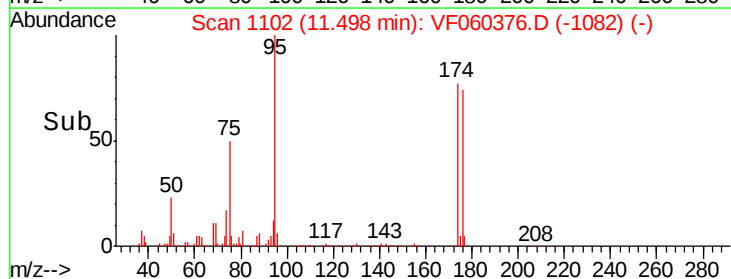
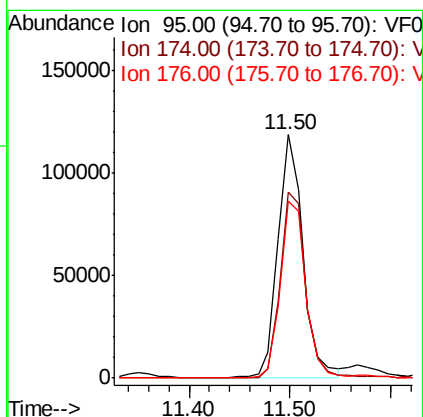
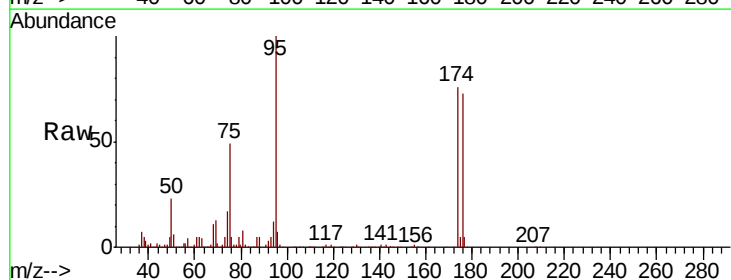
Instrument :
MSVOA_F
ClientSampleId :
PL-01-092718-D

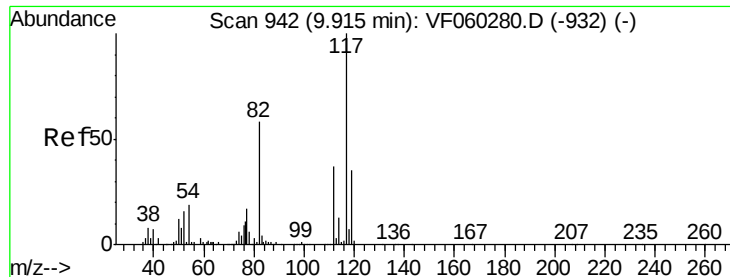
Tot Ion: 43 Resp: 4830
Ion Ratio Lower Upper
43 100
58 41.5 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 41.838 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

Tgt Ion: 95 Resp: 204931
Ion Ratio Lower Upper
95 100
174 76.2 0.0 131.2
176 72.9 0.0 126.6

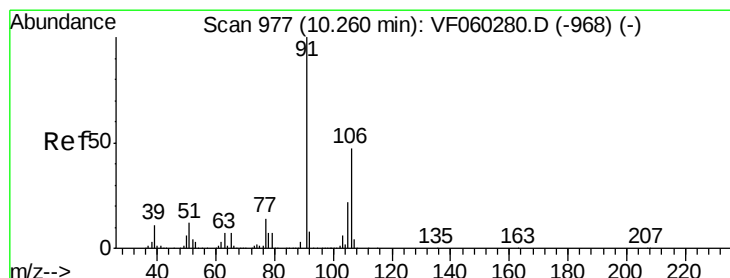
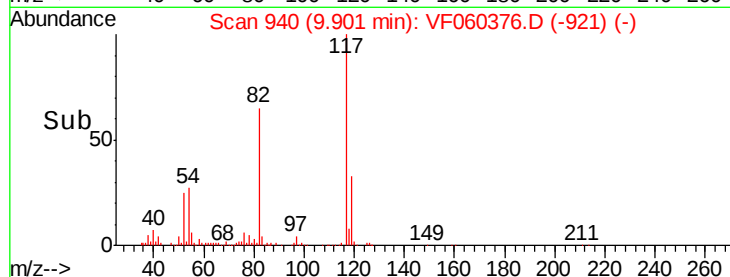
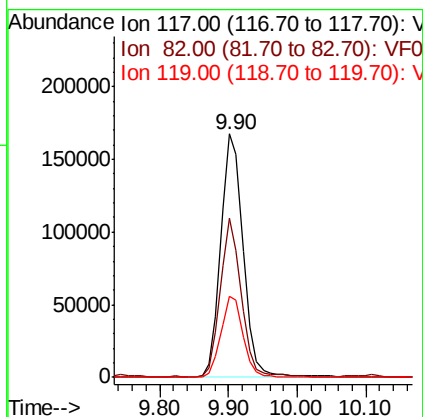
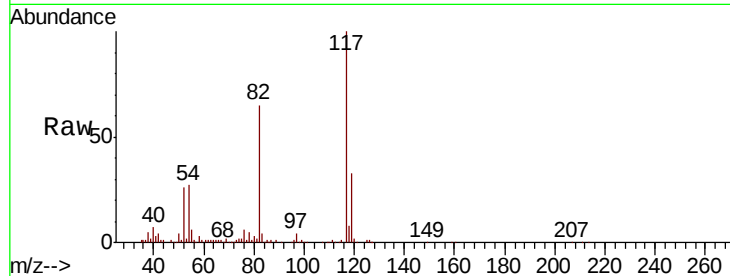




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.01 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

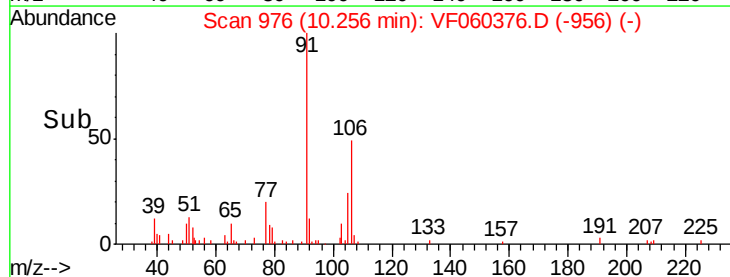
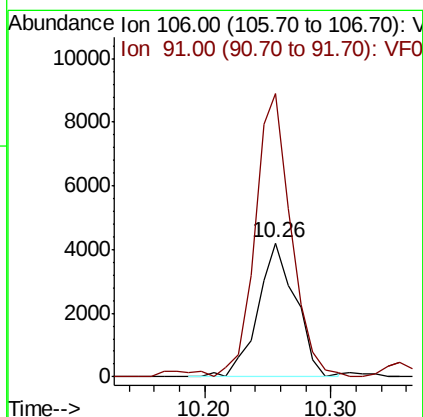
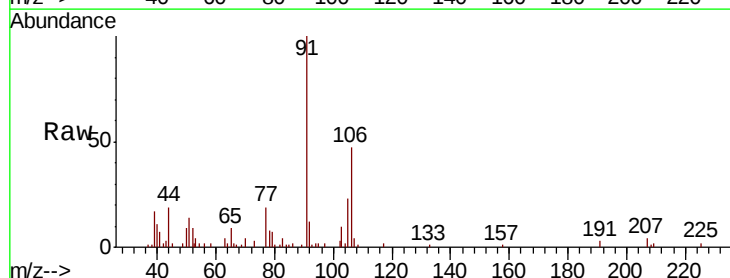
Instrument :
MSVOA_F
ClientSampleId :
PL-01-092718-D

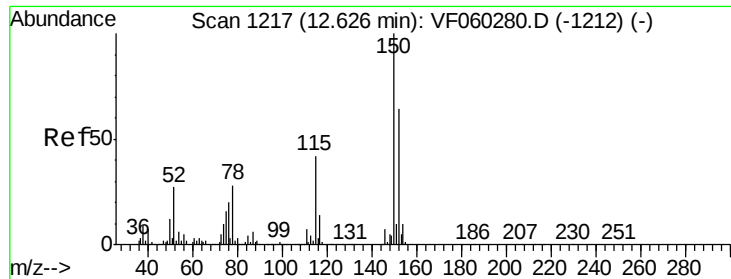
Tot Ion:117 Resp: 379525
Ion Ratio Lower Upper
117 100
82 65.2 46.2 69.2
119 33.3 27.8 41.6



#68
m/p-Xylenes
Concen: 1.596 ug/l
RT: 10.26 min Scan# 976
Delta R.T. -0.00 min
Lab File: VF060376.D
Acq: 28 Sep 2018 19:26

Tgt Ion:106 Resp: 8772
Ion Ratio Lower Upper
106 100
91 211.8 172.3 258.5

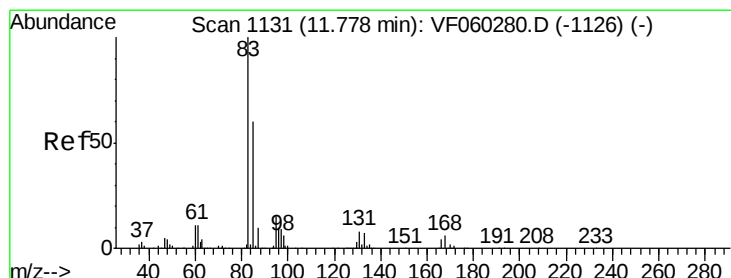
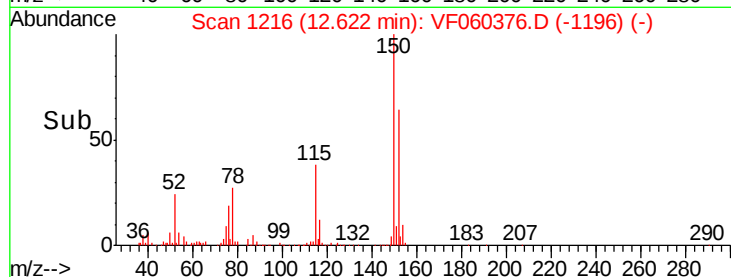
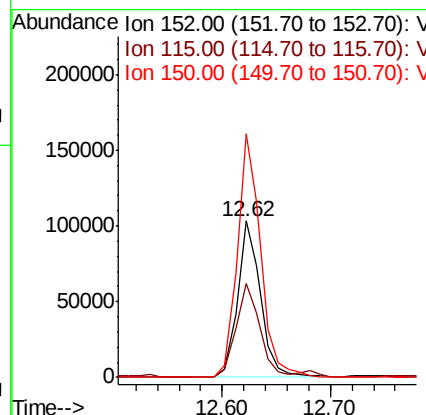
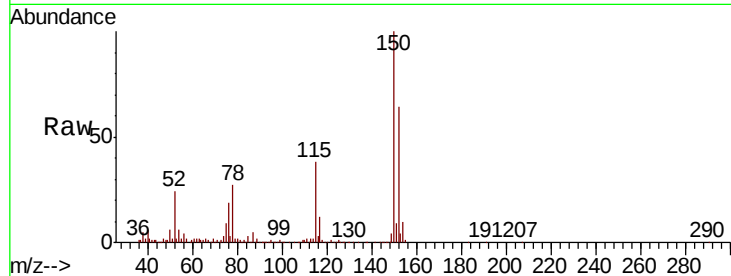




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.62 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: VF060376.D
 Acq: 28 Sep 2018 19:26

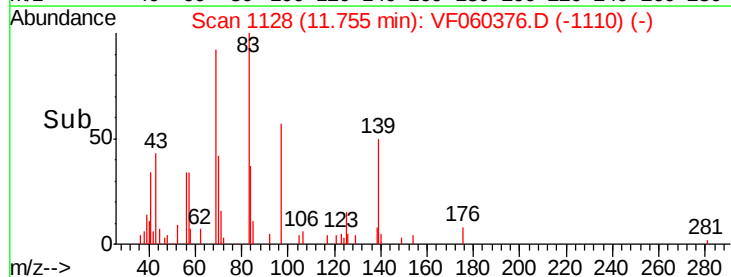
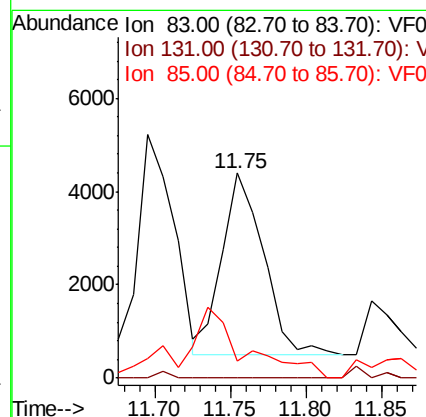
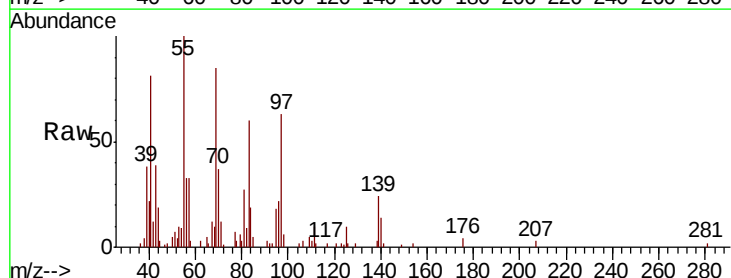
Instrument :
 MSVOA_F
 ClientSampleId :
 PL-01-092718-D

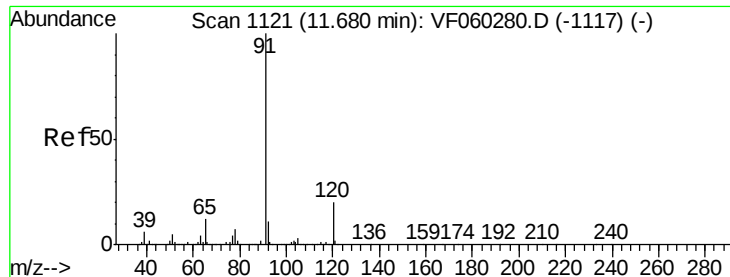
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.9	32.6	97.8
150	155.9	0.0	314.2



#75
 1,1,2,2-Tetrachloroethane
 Concen: 3.060 ug/l
 RT: 11.75 min Scan# 1128
 Delta R.T. -0.02 min
 Lab File: VF060376.D
 Acq: 28 Sep 2018 19:26

Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.2	12.4#
85	8.3	30.1	90.5#





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

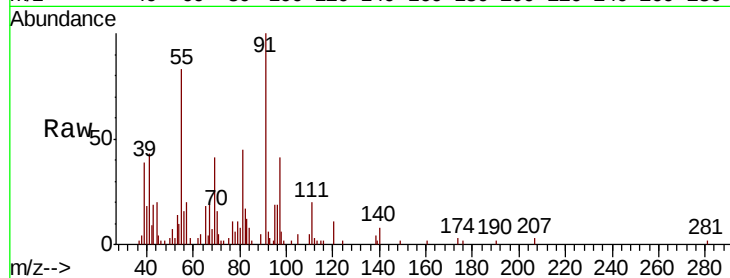
PL-01-092718-D

Tot Ion: 91 Resp: 9990

Ion Ratio Lower Upper

91 100

120 11.4 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

8000

6000

4000

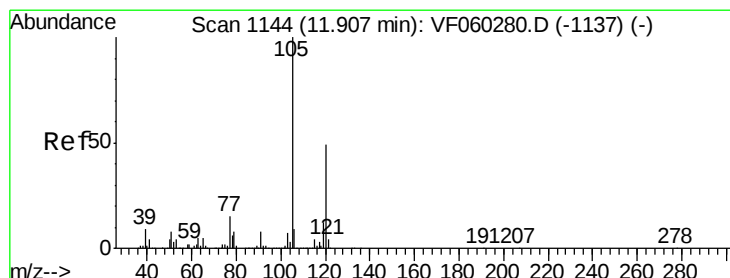
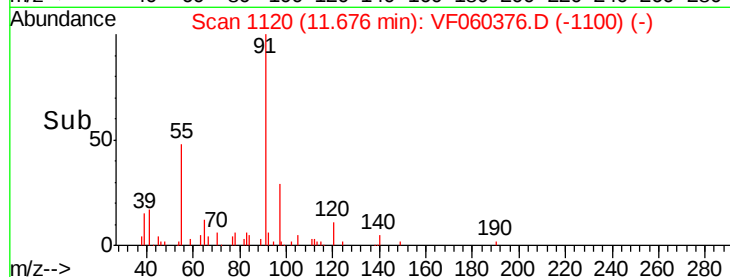
2000

0

Time-->

11.60 11.65 11.70

11.68



#80

1,3,5-Trimethylbenzene

Concen: 7.141 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF060376.D

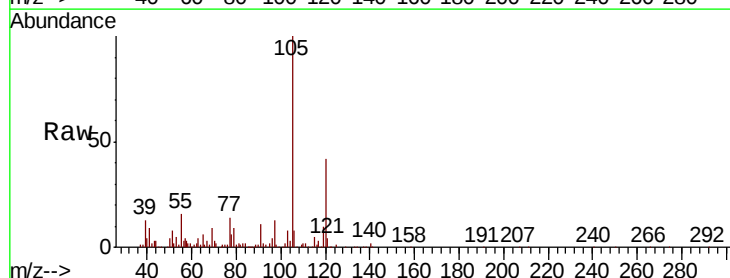
Acq: 28 Sep 2018 19:26

Tgt Ion:105 Resp: 79341

Ion Ratio Lower Upper

105 100

120 41.9 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

60000

40000

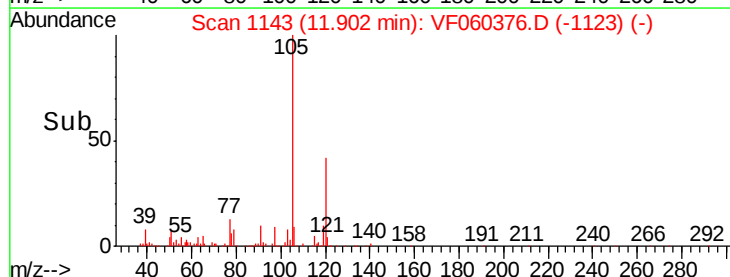
20000

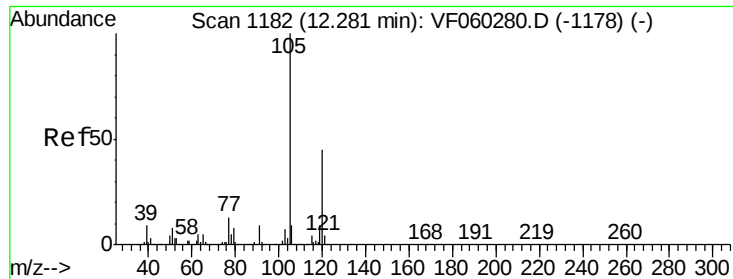
0

Time-->

11.80 11.90 12.00

11.90

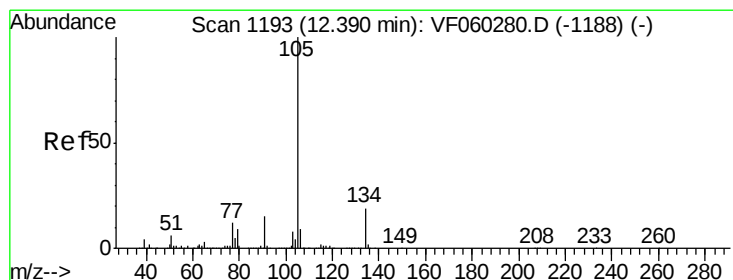
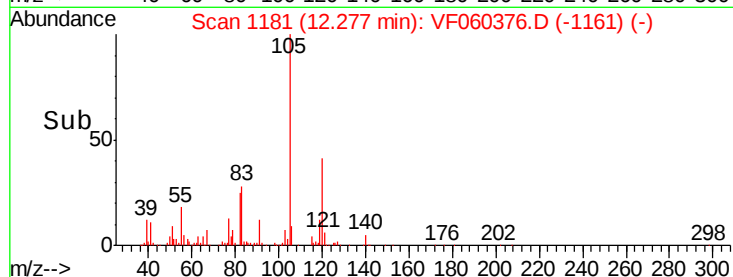
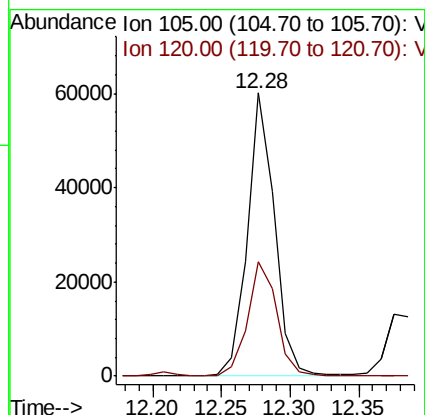
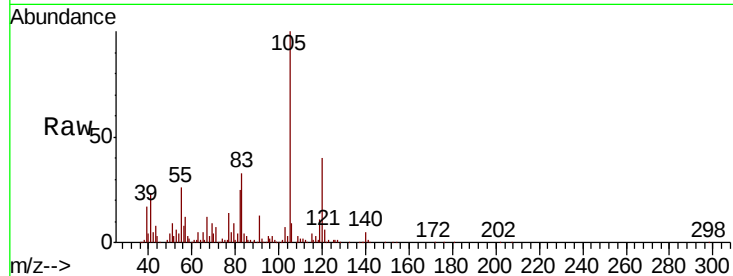




#84
 1,2,4-Trimethylbenzene
 Concen: 7.368 ug/l
 RT: 12.28 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VF060376.D
 Acq: 28 Sep 2018 19:26

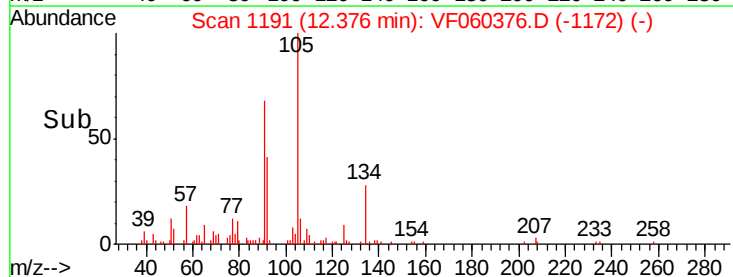
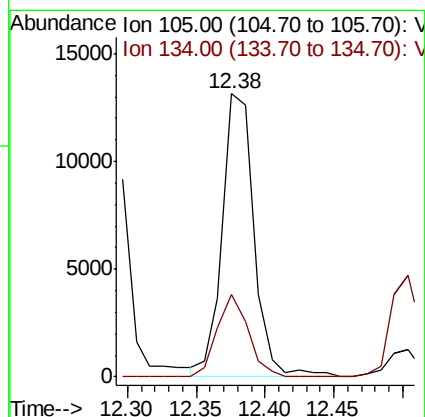
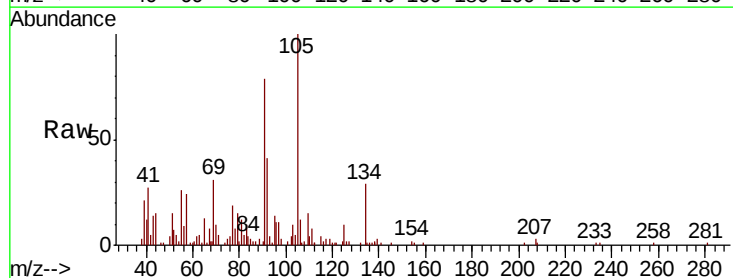
Instrument :
 MSVOA_F
 ClientSampleId :
 PL-01-092718-D

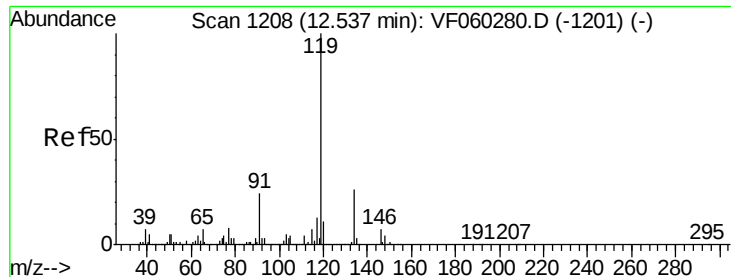
Tot Ion:105 Resp: 83127
 Ion Ratio Lower Upper
 105 100
 120 40.3 22.4 67.0



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 12.38 min Scan# 1191
 Delta R.T. -0.01 min
 Lab File: VF060376.D
 Acq: 28 Sep 2018 19:26

Tgt Ion:105 Resp: 21085
 Ion Ratio Lower Upper
 105 100
 134 29.1 9.6 28.6#

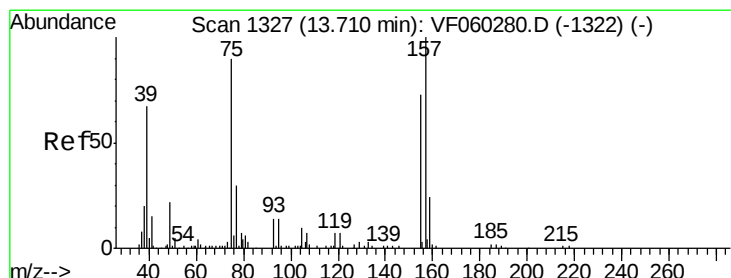
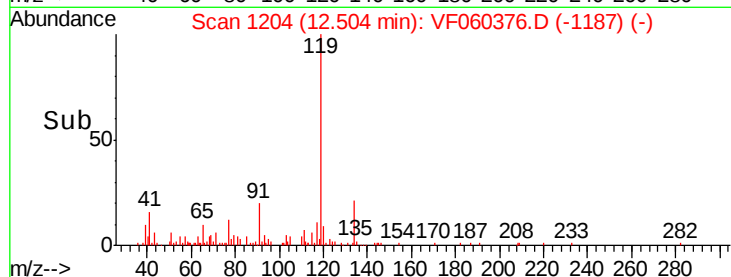
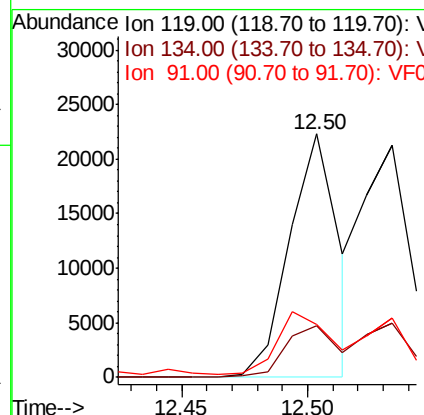
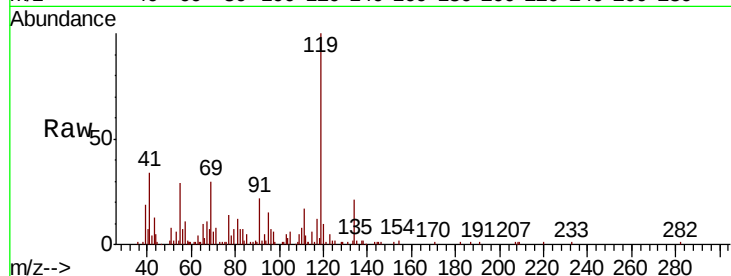




#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.50 min Scan# 1204
 Delta R.T. -0.03 min
 Lab File: VF060376.D
 Acq: 28 Sep 2018 19:26

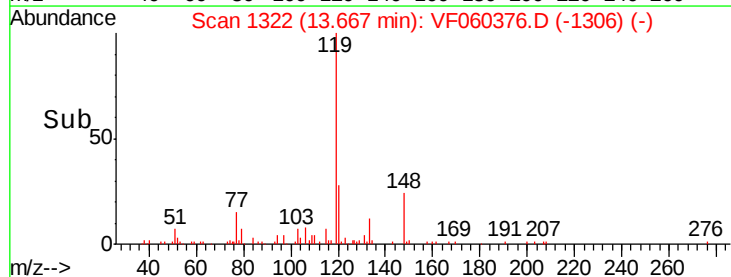
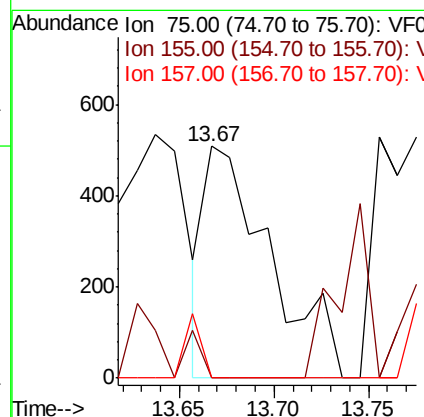
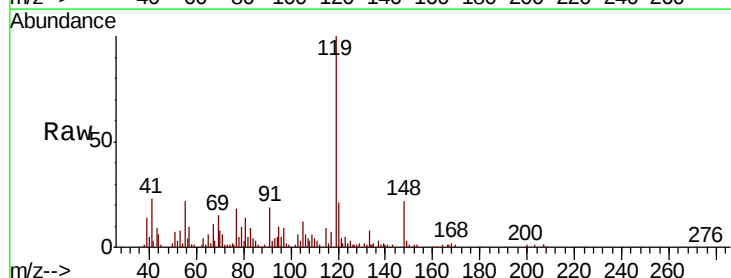
Instrument :
 MSVOA_F
 ClientSampleId :
 PL-01-092718-D

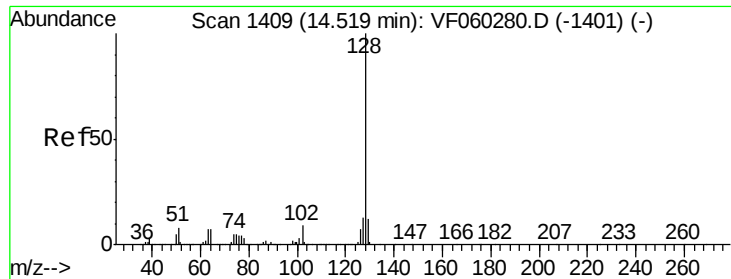
Tot Ion	Ratio	Lower	Upper
119	100		
134	21.2	12.9	38.7
91	21.5	11.9	35.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.674 ug/l
 RT: 13.67 min Scan# 1322
 Delta R.T. -0.04 min
 Lab File: VF060376.D
 Acq: 28 Sep 2018 19:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	41.9	125.7#
157	0.0	57.4	172.0#





#95

Naphthalene

Concen: 5.614 ug/l

RT: 14.51 min Scan# 1408

Delta R.T. -0.00 min

Lab File: VF060376.D

Acq: 28 Sep 2018 19:26

Instrument :

MSVOA_F

ClientSampleId :

PL-01-092718-D

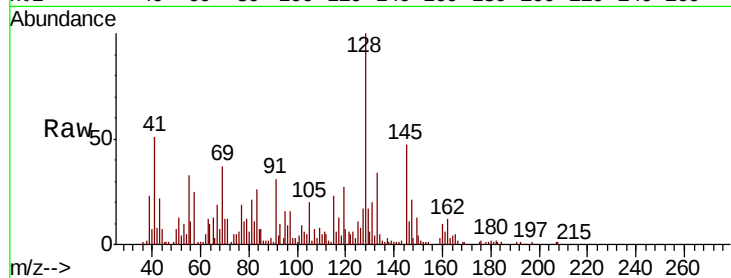
Tot Ion:128 Resp: 37935

Ion Ratio Lower Upper

128 100

127 16.6 10.1 15.1#

129 17.2 9.8 14.8#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

