

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\
 Data File : VF060319.D
 Acq On : 21 Sep 2018 18:24
 Operator : VA/AP
 Sample : J4771-13RE
 Misc : 6.06/5mL/MSVOA F/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-0920-18-BRE

Quant Time: Sep 22 02:28:22 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	135849	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	222799	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	160153	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	63153	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	129943	71.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	142.08%	
35) Dibromofluoromethane	4.28	113	139913	70.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	140.90%	
50) Toluene-d8	7.70	98	258005	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
62) 4-Bromofluorobenzene	11.51	95	94728	42.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.74%	

Target Compounds

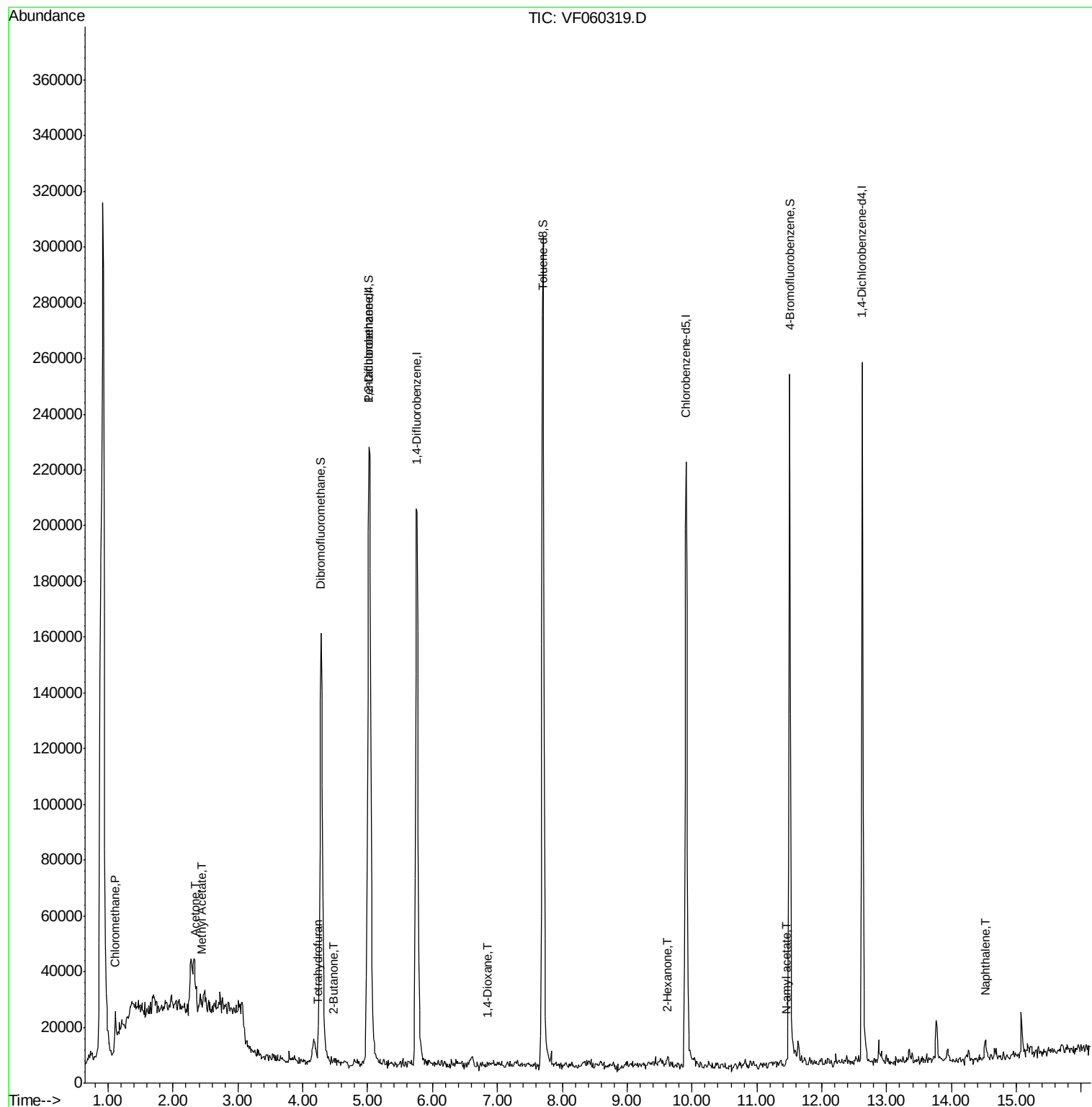
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	162	Below Cal	#	40
3) Chloromethane	1.11	50	1971	1.065 ug/l	#	63
5) Bromomethane	1.33	94	416	Below Cal	#	69
11) Tert butyl alcohol	2.68	59	513	Below Cal	#	1
13) Acrolein	2.00	56	345	Below Cal		92
16) Acetone	2.35	43	7451	14.464 ug/l	#	83
17) Carbon Disulfide	1.88	76	379	Below Cal	#	29
18) Methyl Acetate	2.44	43	2335	2.721 ug/l	#	81
20) Methylene Chloride	2.31	84	7983	Below Cal		89
25) 2-Butanone	4.49	43	978	1.410 ug/l	#	56
29) Tetrahydrofuran	4.22	42	625	2.461 ug/l	#	47
49) 1,4-Dioxane	6.84	88	88	9.912 ug/l	#	1
59) 2-Hexanone	9.63	43	4230	5.445 ug/l		67
74) N-amyl acetate	11.46	43	1631	1.349 ug/l	#	51
78) n-propylbenzene	11.68	91	1853	Below Cal		84
85) sec-Butylbenzene	12.38	105	930	Below Cal	#	1
86) p-Isopropyltoluene	12.53	119	820	Below Cal	#	54
89) n-Butylbenzene	12.92	91	1625	Below Cal		80
95) Naphthalene	14.52	128	2987	1.076 ug/l	#	92

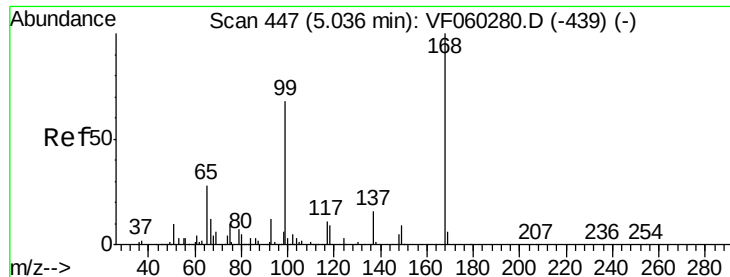
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF060319.D

Acq: 21 Sep 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

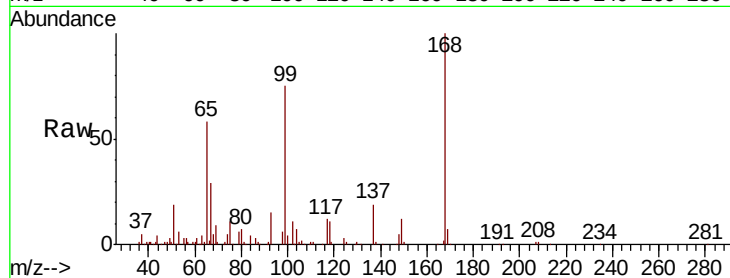
PL-02-0920-18-BRE

Tot Ion:168 Resp: 135849

Ion Ratio Lower Upper

168 100

99 75.2 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

40000

30000

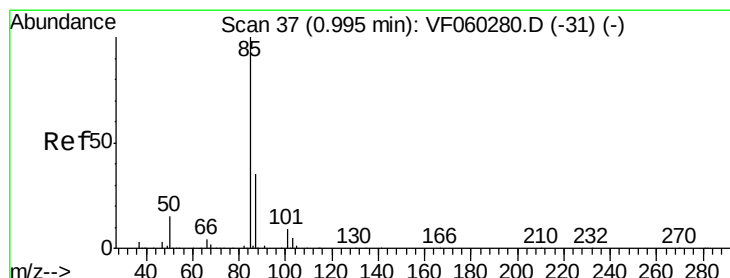
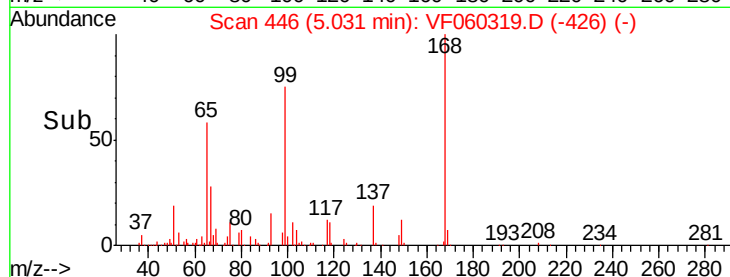
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 34

Delta R.T. -0.02 min

Lab File: VF060319.D

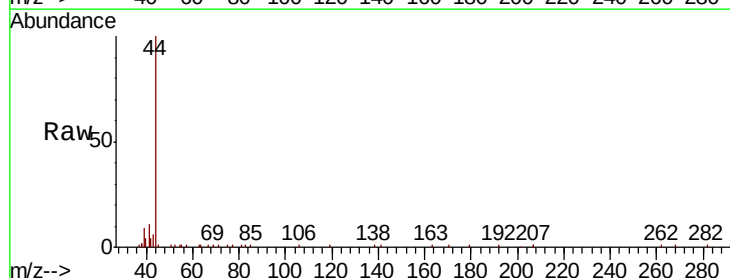
Acq: 21 Sep 2018 18:24

Tgt Ion: 85 Resp: 162

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

200

150

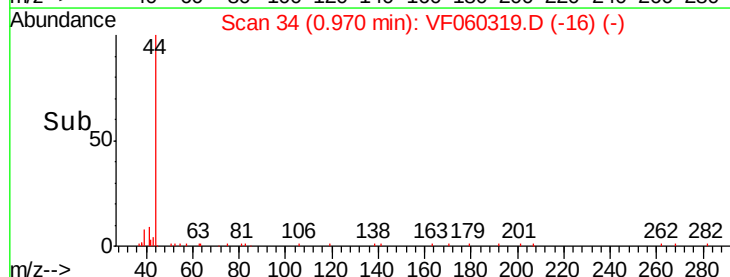
100

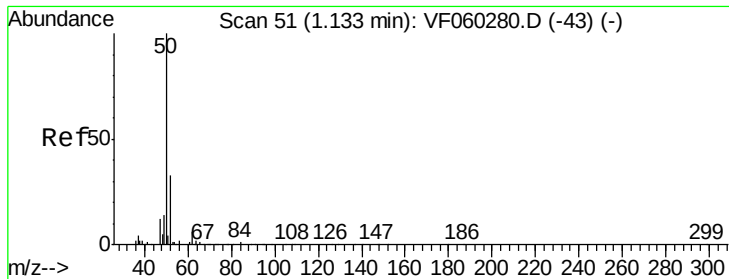
50

0

0.94 0.96 0.98 1.00

Time-->





#3

Chloromethane

Concen: 1.065 ug/l

RT: 1.11 min Scan# 48

Delta R.T. -0.02 min

Lab File: VF060319.D

Acq: 21 Sep 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

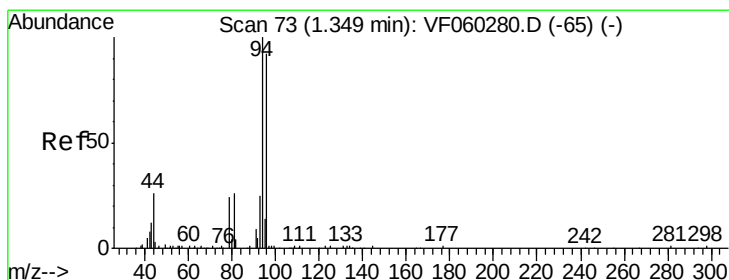
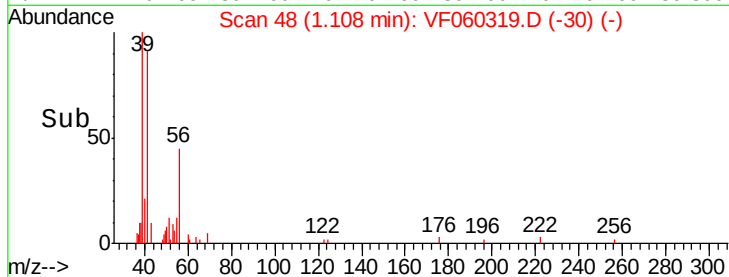
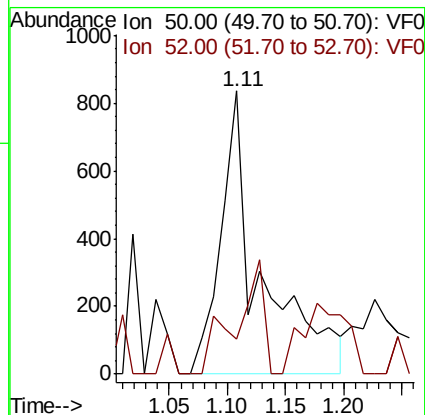
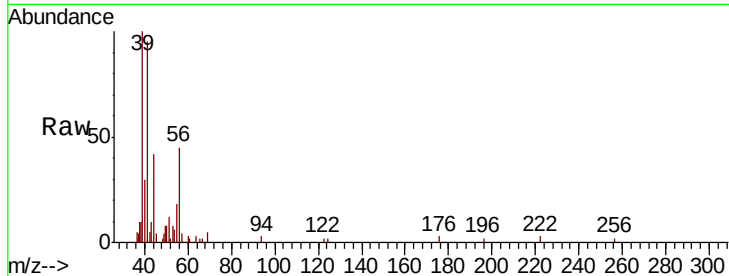
PL-02-0920-18-BRE

Tot Ion: 50 Resp: 1971

Ion Ratio Lower Upper

50 100

52 12.2 26.5 39.7#



#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060319.D

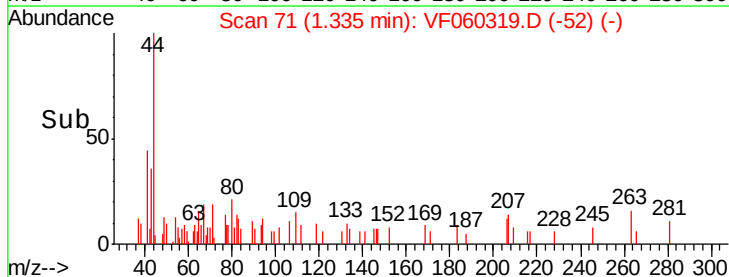
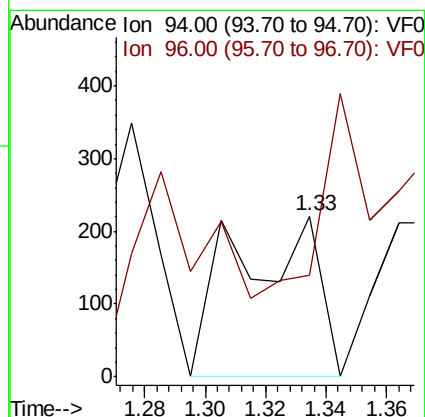
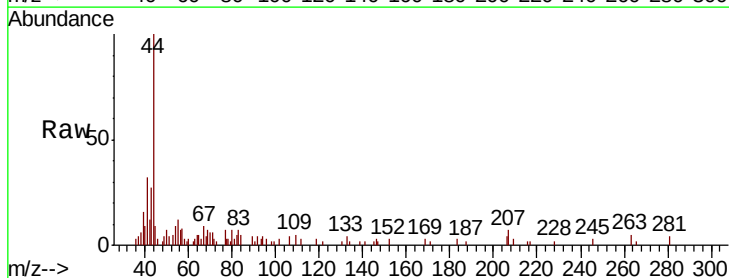
Acq: 21 Sep 2018 18:24

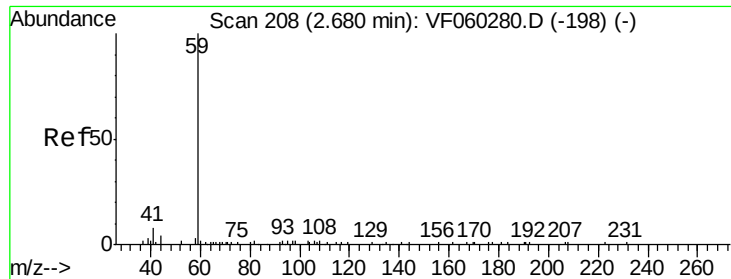
Tgt Ion: 94 Resp: 416

Ion Ratio Lower Upper

94 100

96 62.9 73.9 110.9#

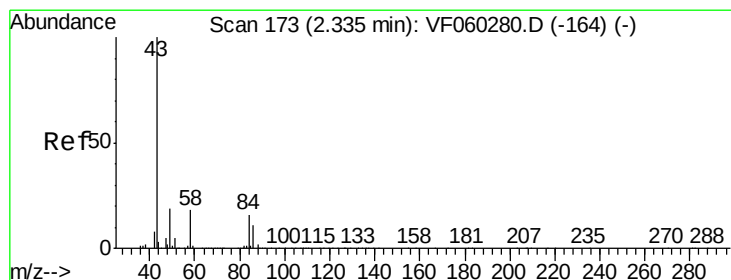
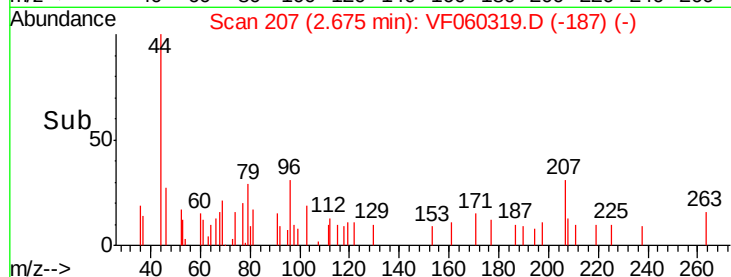
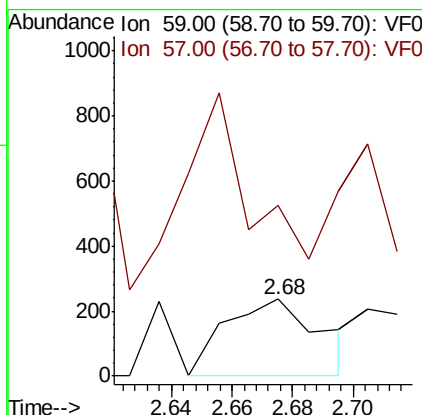
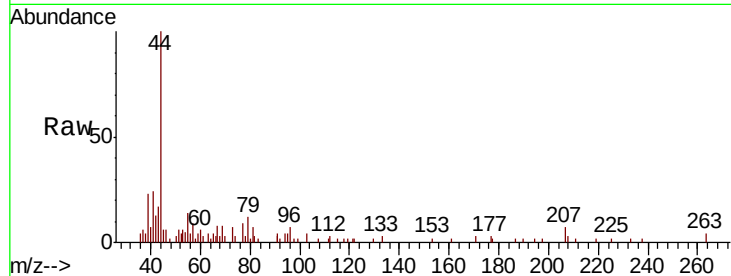




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.68 min Scan# 207
Delta R.T. -0.00 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

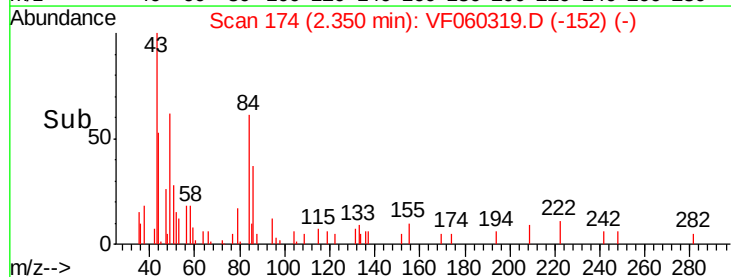
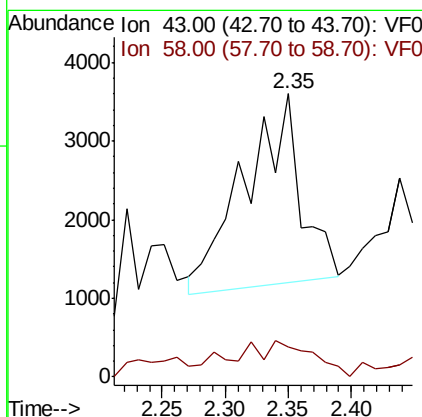
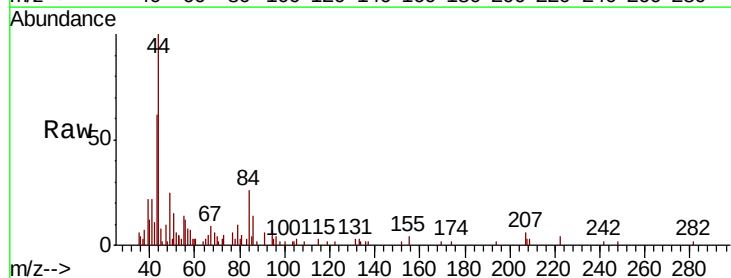
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-BRE

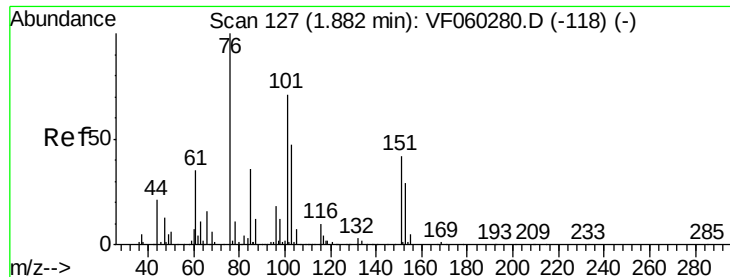
Tot Ion: 59 Resp: 513
Ion Ratio Lower Upper
59 100
57 221.1 12.4 18.6#



#16
Acetone
Concen: 14.464 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

Tgt Ion: 43 Resp: 7451
Ion Ratio Lower Upper
43 100
58 10.7 14.5 21.7#

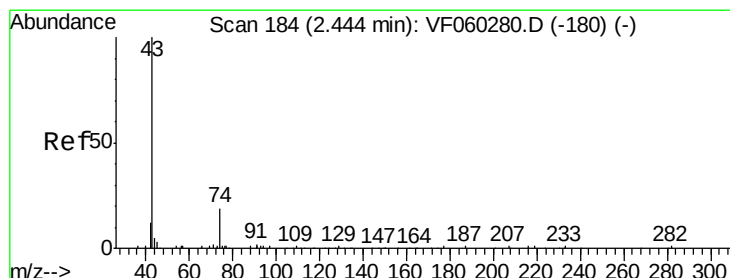
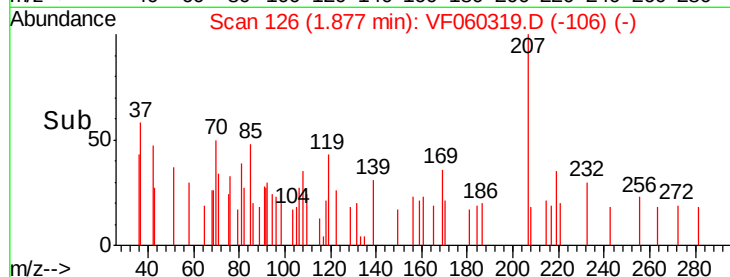
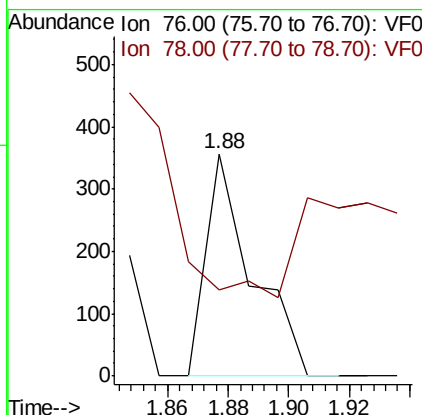
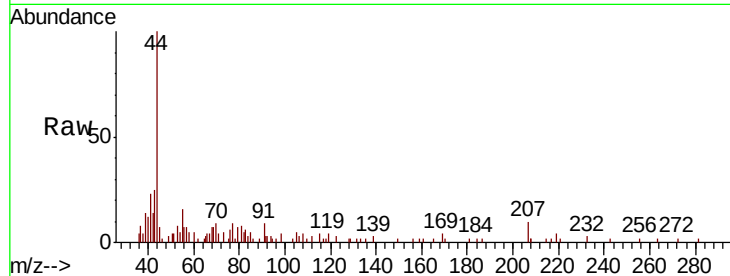




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.88 min Scan# 126
Delta R.T. -0.00 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

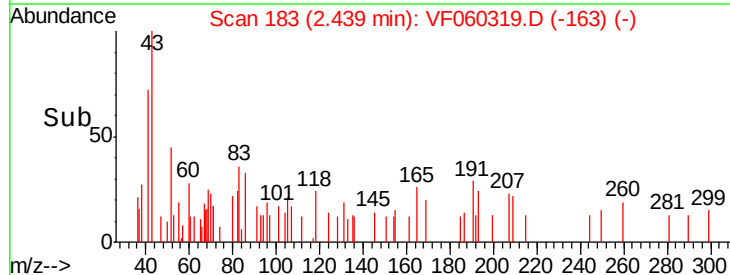
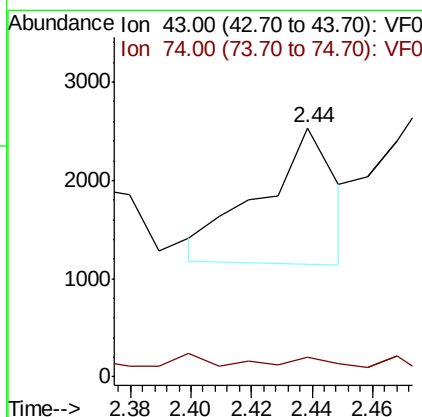
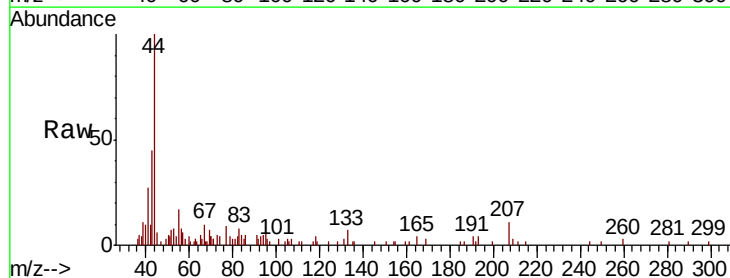
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-BRE

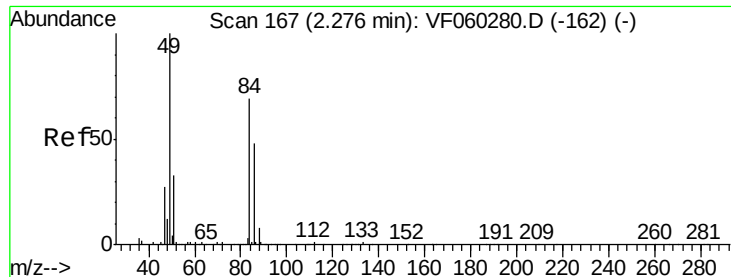
Tot Ion: 76 Resp: 379
Ion Ratio Lower Upper
76 100
78 38.9 9.4 14.0#



#18
Methyl Acetate
Concen: 2.721 ug/l
RT: 2.44 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

Tgt Ion: 43 Resp: 2335
Ion Ratio Lower Upper
43 100
74 7.9 12.7 19.1#

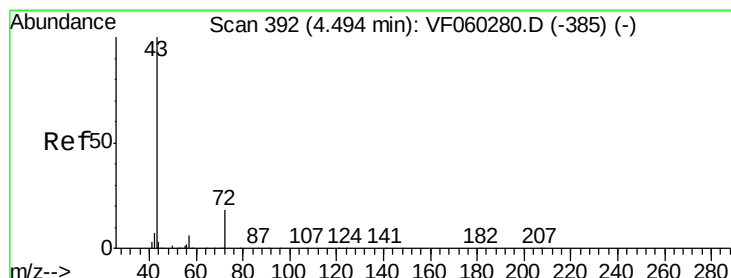
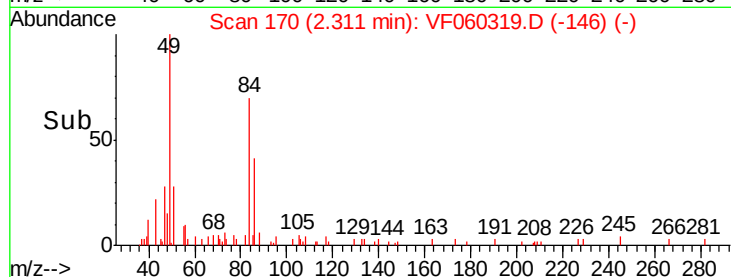
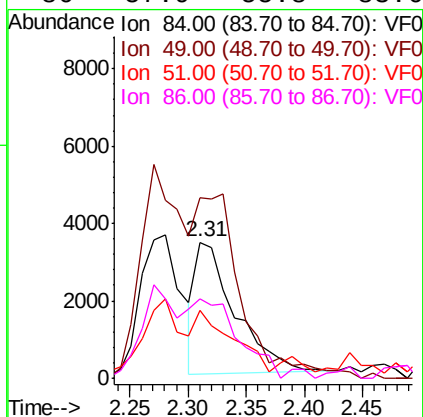
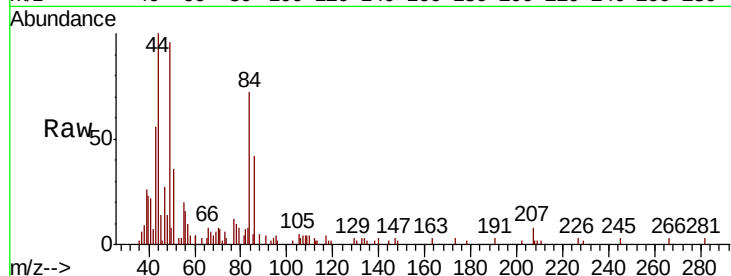




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.31 min Scan# 170
Delta R.T. 0.03 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

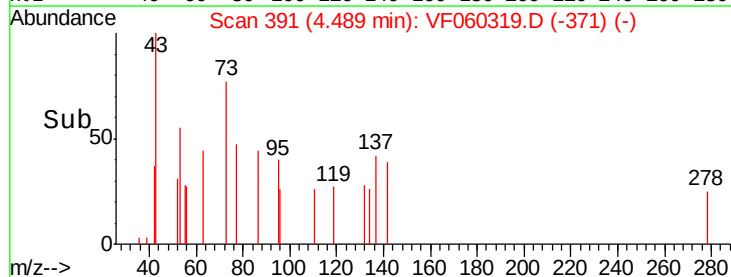
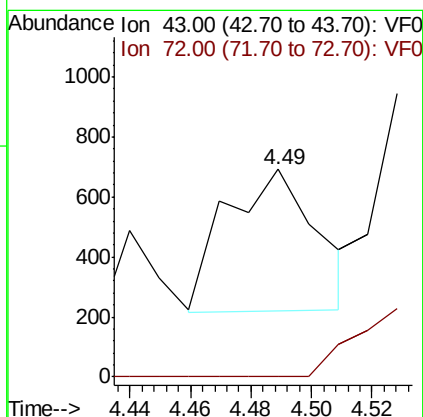
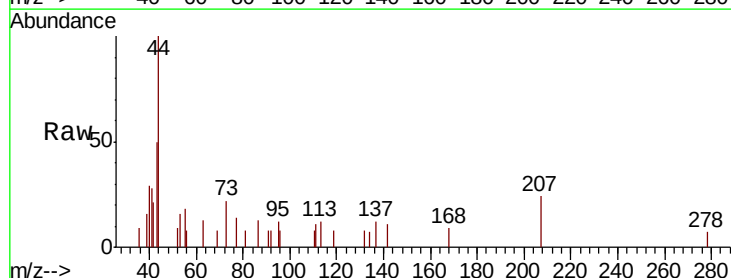
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-BRE

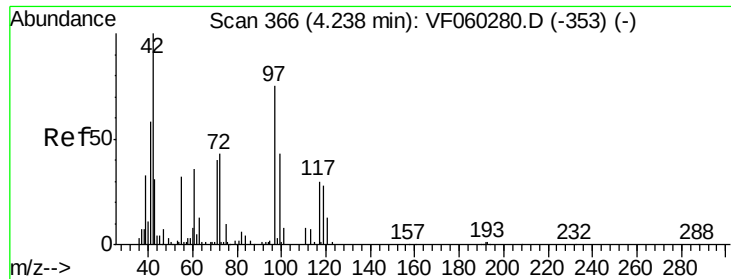
Tot Ion:	84	Resp:	7983
Ion	Ratio	Lower	Upper
84	100		
49	133.1	118.3	177.5
51	49.7	38.7	58.1
86	57.9	55.8	83.6



#25
2-Butanone
Concen: 1.410 ug/l
RT: 4.49 min Scan# 391
Delta R.T. -0.00 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

Tgt Ion:	43	Resp:	978
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.2	24.2#





#29

Tetrahydrofuran

Concen: 2.461 ug/l

RT: 4.22 min Scan# 364

Delta R.T. -0.01 min

Lab File: VF060319.D

Acq: 21 Sep 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

PL-02-0920-18-BRE

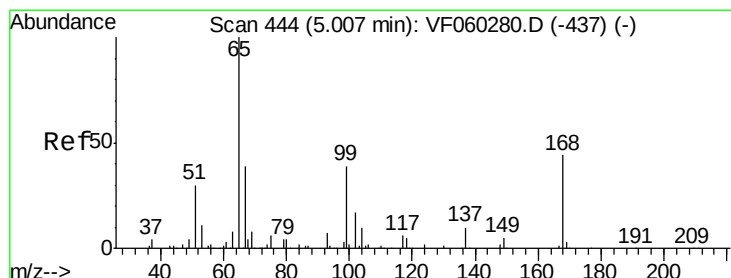
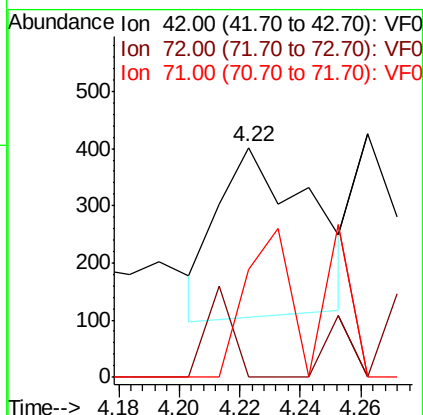
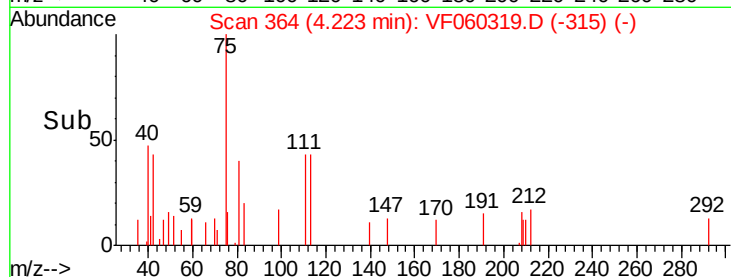
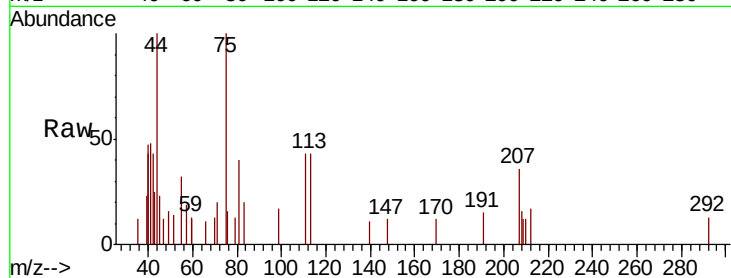
Tot Ion: 42 Resp: 625

Ion Ratio Lower Upper

42 100

72 15.0 32.6 49.0#

71 0.0 32.7 49.1#



#33

1,2-Dichloroethane-d4

Concen: 71.036 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060319.D

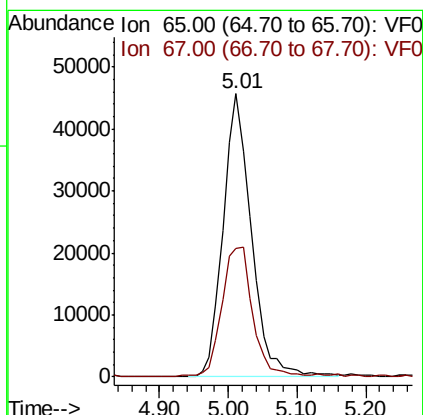
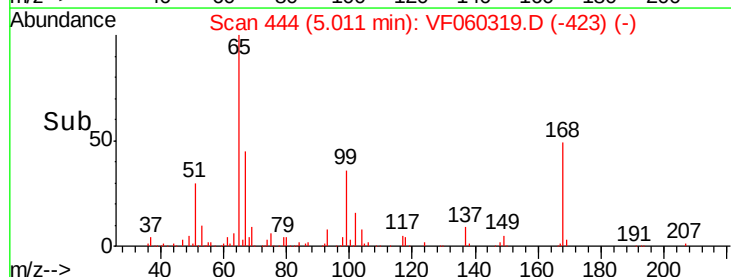
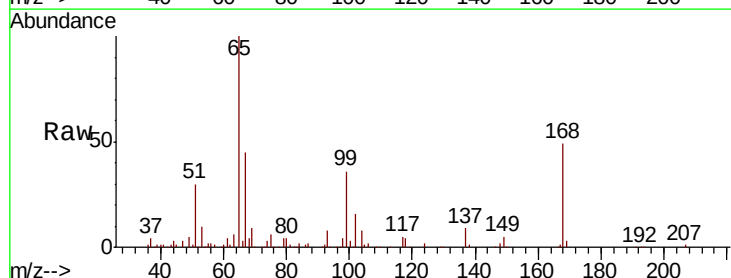
Acq: 21 Sep 2018 18:24

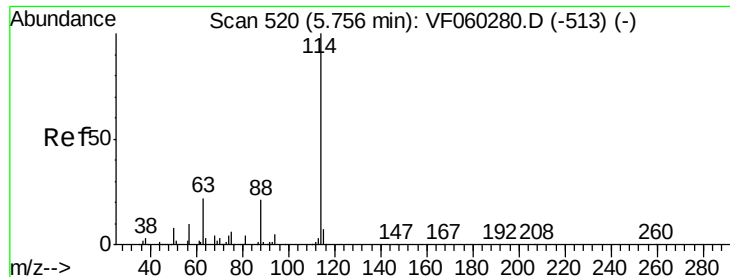
Tgt Ion: 65 Resp: 129943

Ion Ratio Lower Upper

65 100

67 45.2 0.0 94.4

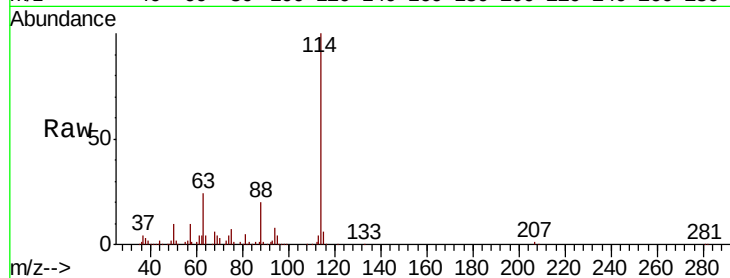




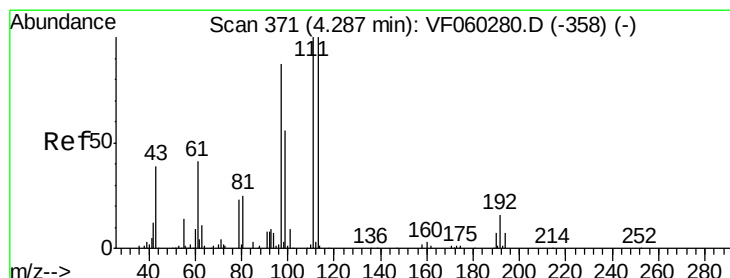
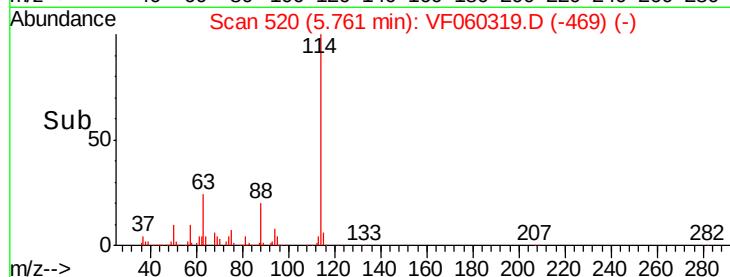
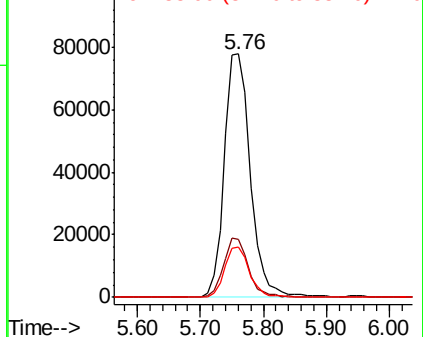
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 520
 Delta R.T. 0.00 min
 Lab File: VF060319.D
 Acq: 21 Sep 2018 18:24

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-0920-18-BRE

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	43.8
88	20.5	0.0	41.2

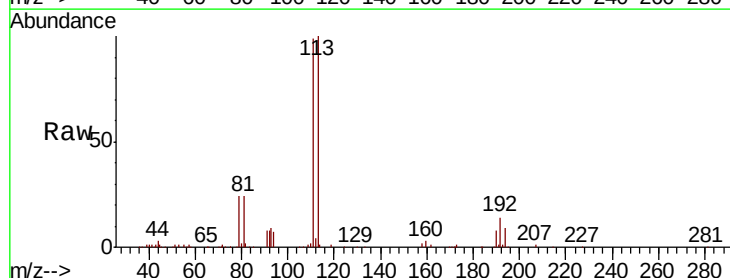


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

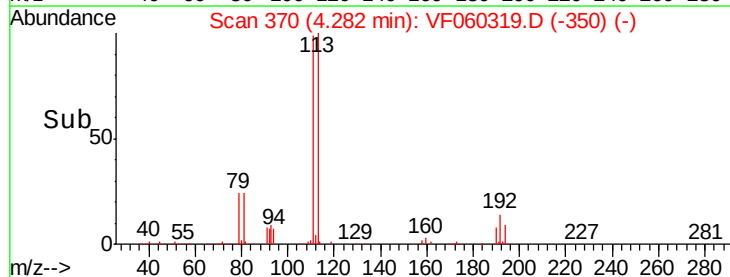
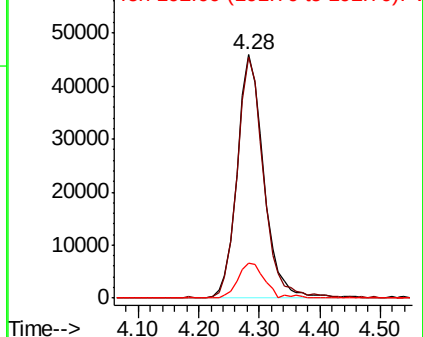


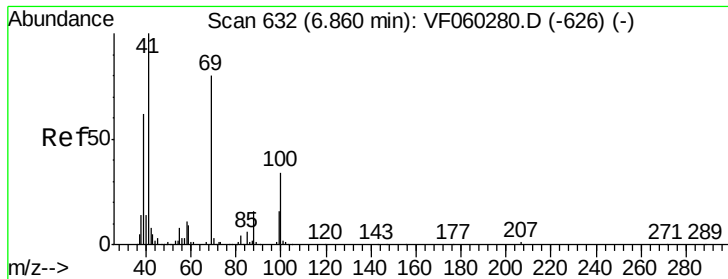
#35
 Dibromofluoromethane
 Concen: 70.447 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.00 min
 Lab File: VF060319.D
 Acq: 21 Sep 2018 18:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.0	79.6	119.4
192	14.5	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: 9.912 ug/l

RT: 6.84 min Scan# 630

Delta R.T. -0.01 min

Lab File: VF060319.D

Acq: 21 Sep 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

PL-02-0920-18-BRE

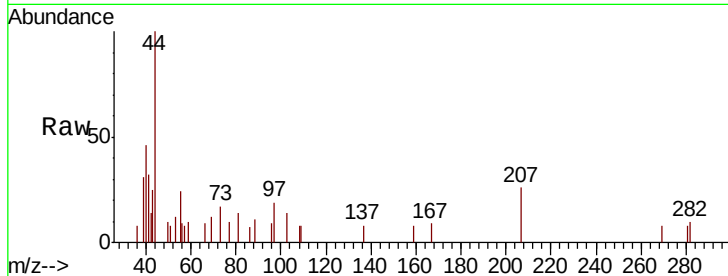
Tot Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

43 237.6 40.2 60.4#

58 92.6 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

500

400

300

200

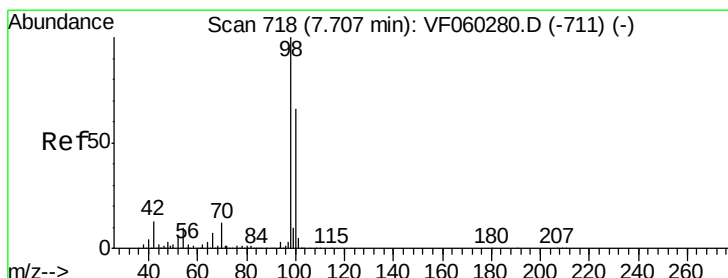
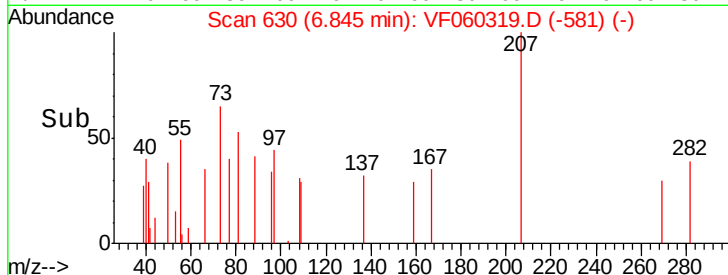
100

0

6.82 6.84 6.86

6.84

Time-->



#50

Toluene-d8

Concen: 49.883 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.00 min

Lab File: VF060319.D

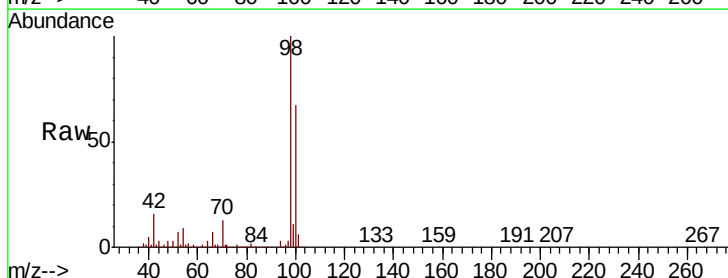
Acq: 21 Sep 2018 18:24

Tgt Ion: 98 Resp: 258005

Ion Ratio Lower Upper

98 100

100 66.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

120000

100000

80000

60000

40000

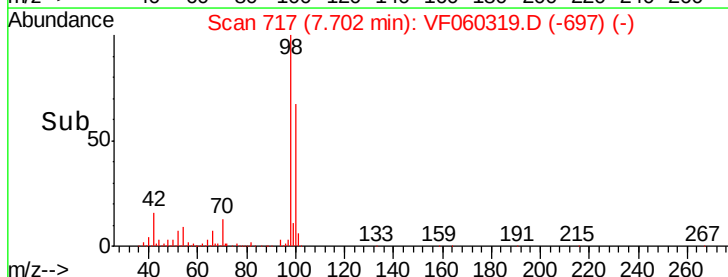
20000

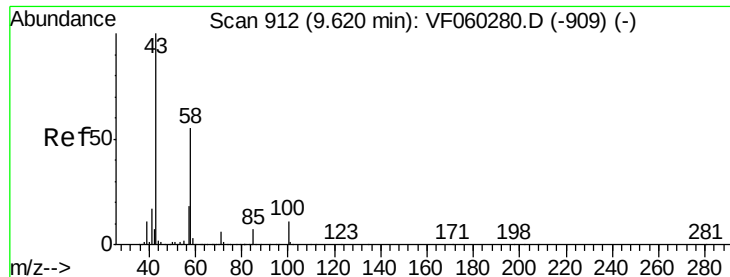
0

7.50 7.60 7.70 7.80 7.90

7.70

Time-->

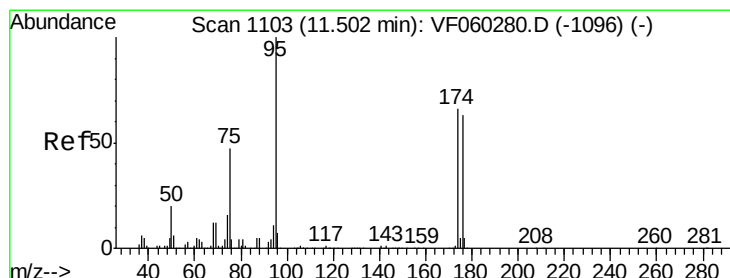
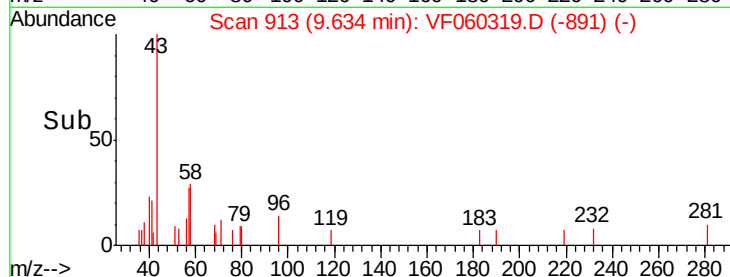
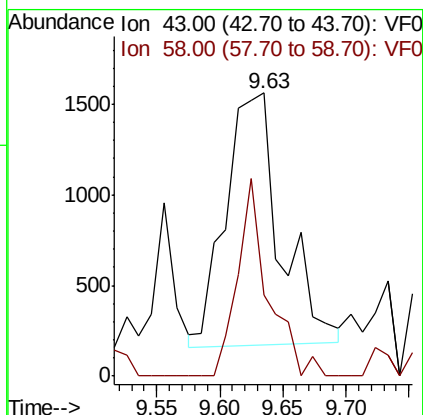
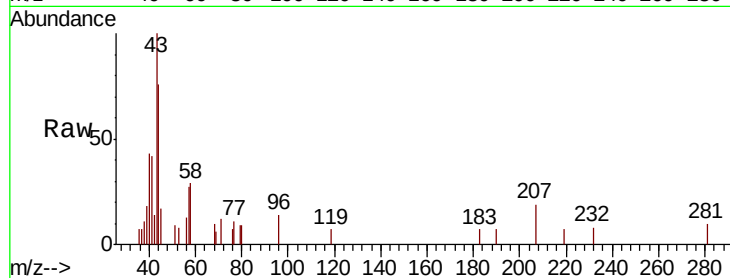




#59
2-Hexanone
Concen: 5.445 ug/l
RT: 9.63 min Scan# 913
Delta R.T. 0.01 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

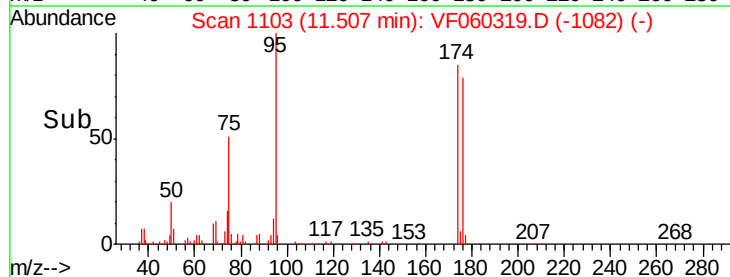
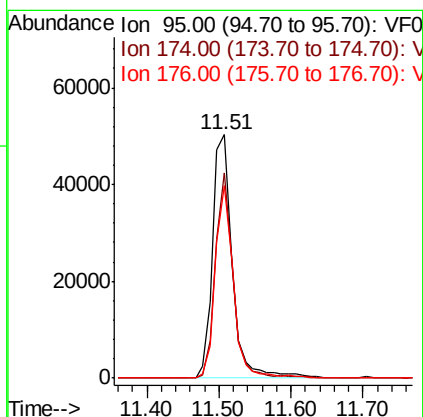
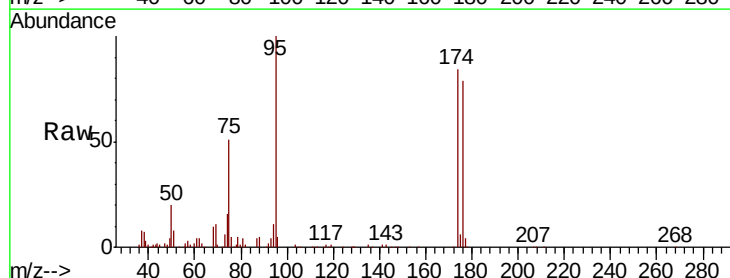
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-BRE

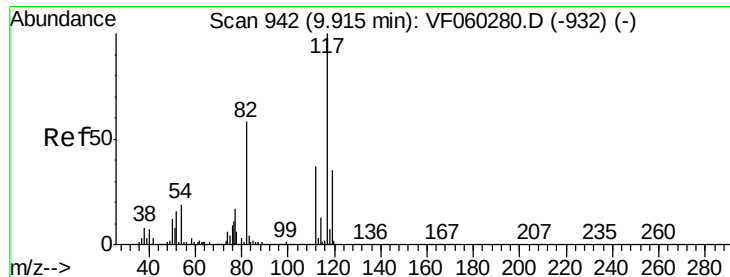
Tot Ion: 43 Resp: 4230
Ion Ratio Lower Upper
43 100
58 28.9 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 42.369 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VF060319.D
Acq: 21 Sep 2018 18:24

Tgt Ion: 95 Resp: 94728
Ion Ratio Lower Upper
95 100
174 84.2 0.0 131.2
176 79.1 0.0 126.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.00 min

Lab File: VF060319.D

Acq: 21 Sep 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

PL-02-0920-18-BRE

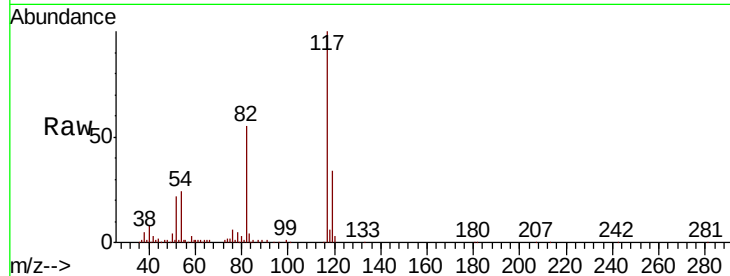
Tot Ion:117 Resp: 160153

Ion Ratio Lower Upper

117 100

82 55.1 46.2 69.2

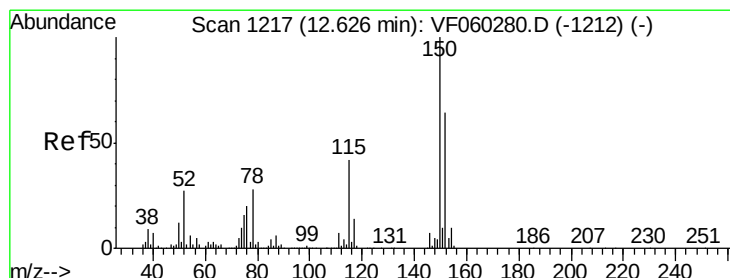
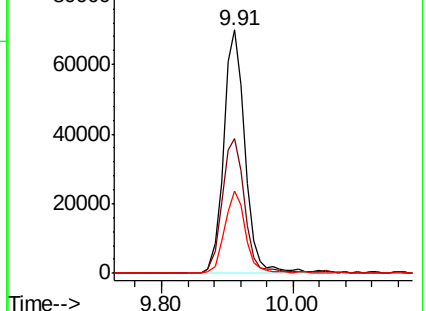
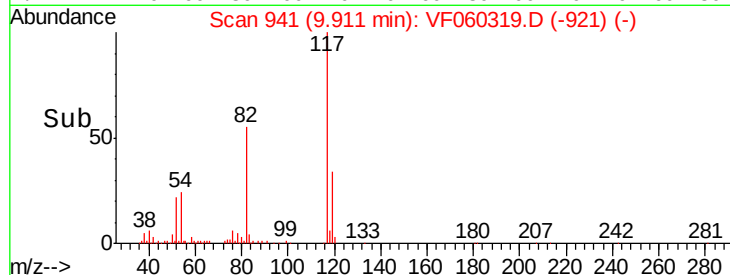
119 33.6 27.8 41.6



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: VF060319.D

Acq: 21 Sep 2018 18:24

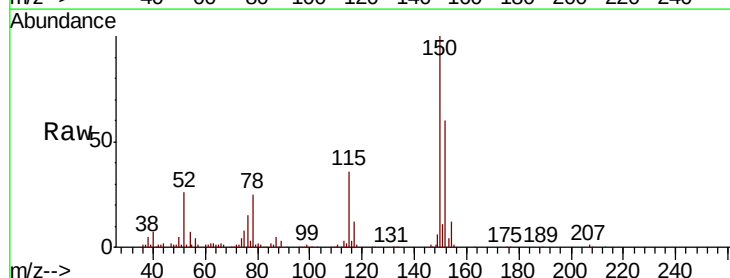
Tgt Ion:152 Resp: 63153

Ion Ratio Lower Upper

152 100

115 59.9 32.6 97.8

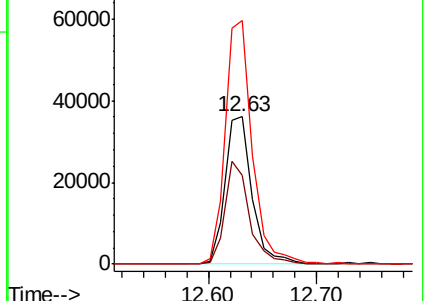
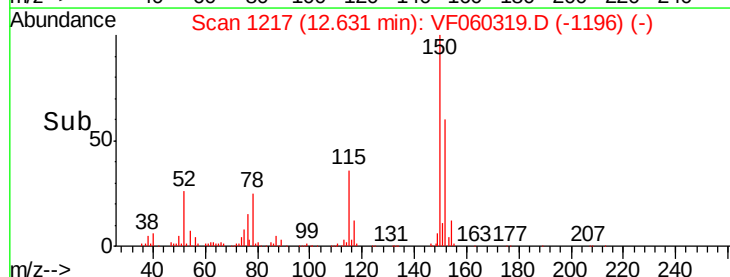
150 165.5 0.0 314.2

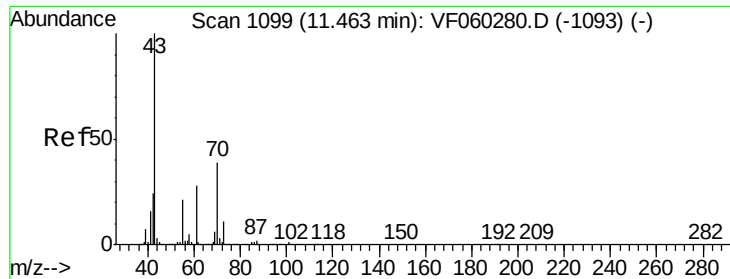


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 1.349 ug/l

RT: 11.46 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VF060319.D

Acq: 21 Sep 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

PL-02-0920-18-BRE

Tot Ion: 43 Resp: 1631

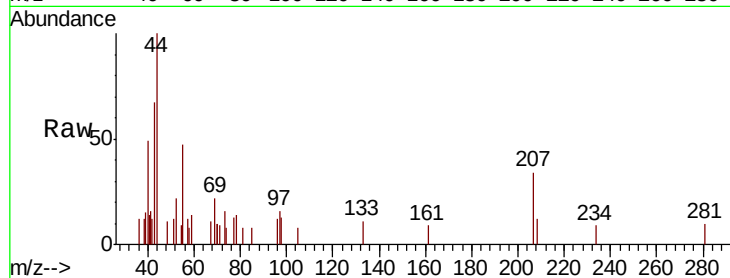
Ion Ratio Lower Upper

43 100

70 30.3 31.4 47.2#

55 70.7 16.8 25.2#

61 0.0 22.6 34.0#

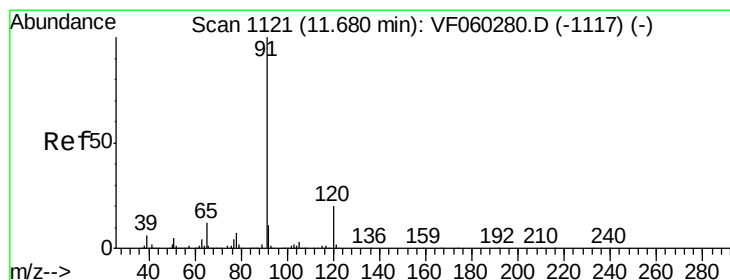
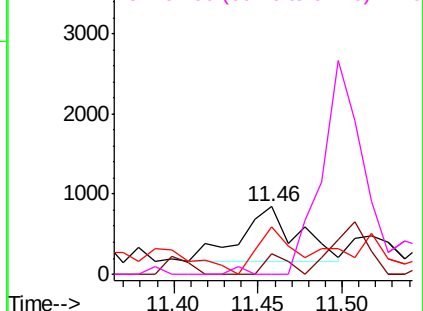
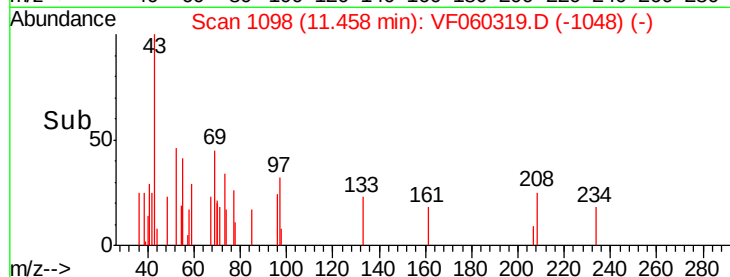


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF060319.D

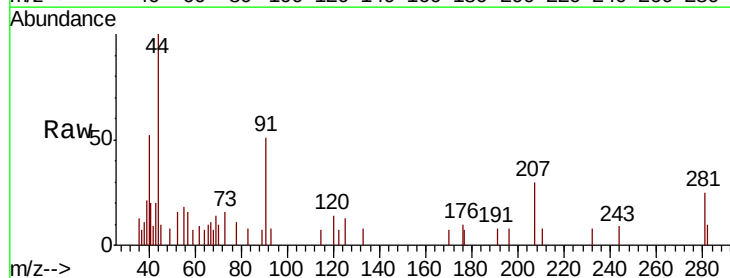
Acq: 21 Sep 2018 18:24

Tgt Ion: 91 Resp: 1853

Ion Ratio Lower Upper

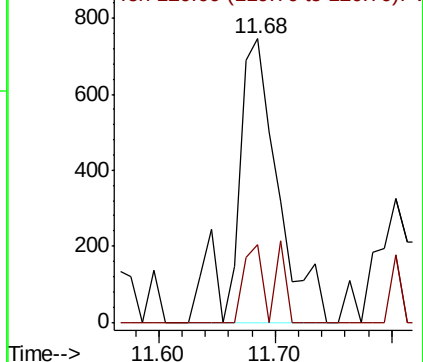
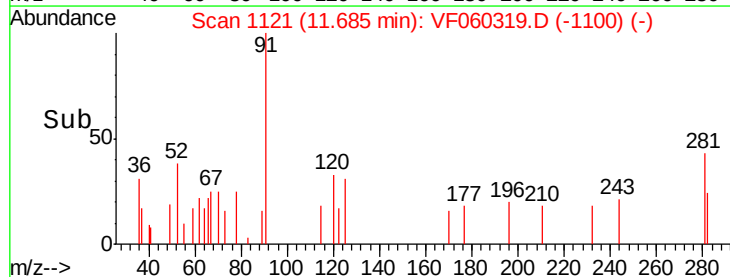
91 100

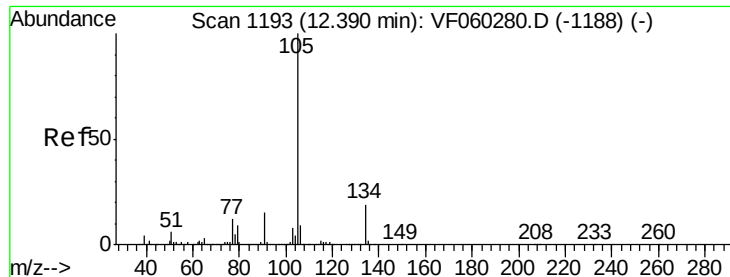
120 27.2 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

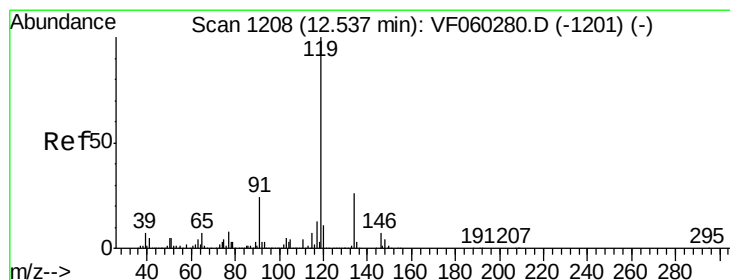
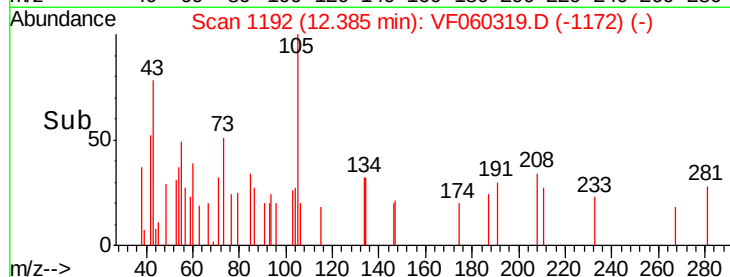
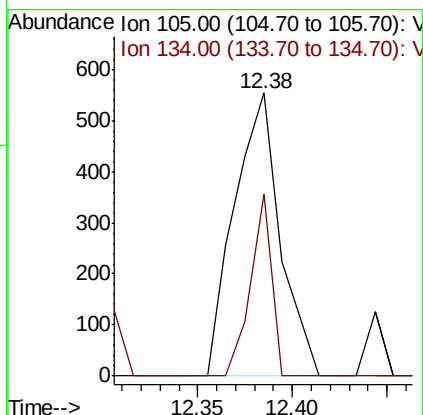
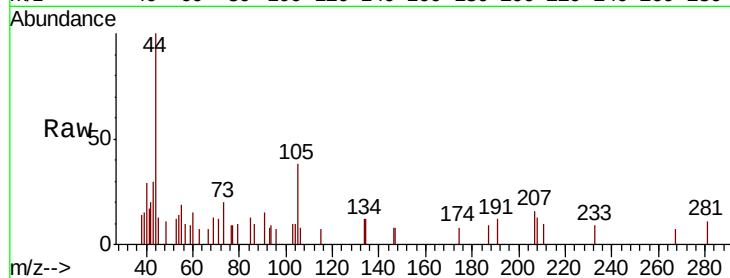




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 12.38 min Scan# 1192
 Delta R.T. -0.00 min
 Lab File: VF060319.D
 Acq: 21 Sep 2018 18:24

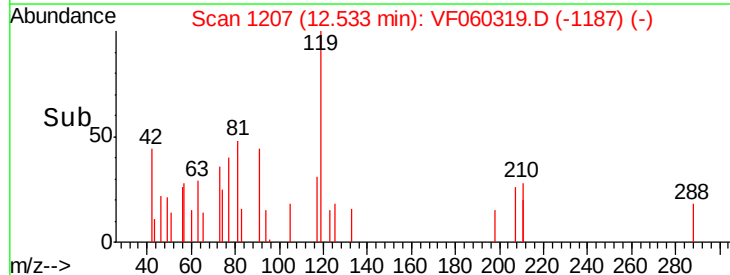
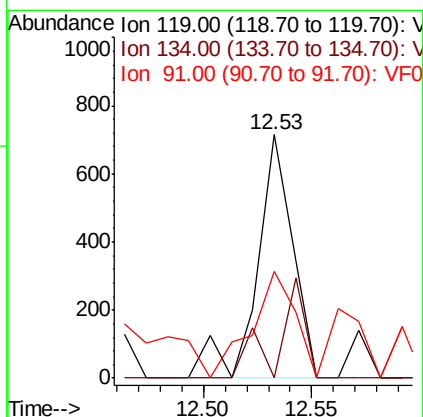
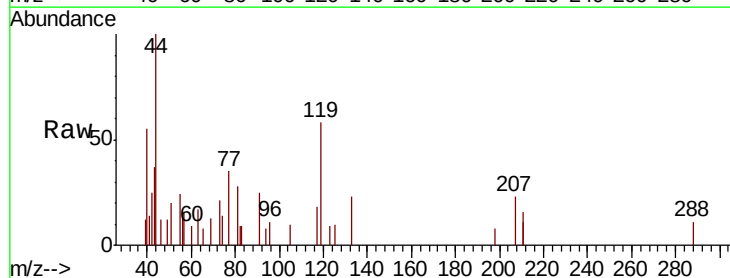
Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-0920-18-BRE

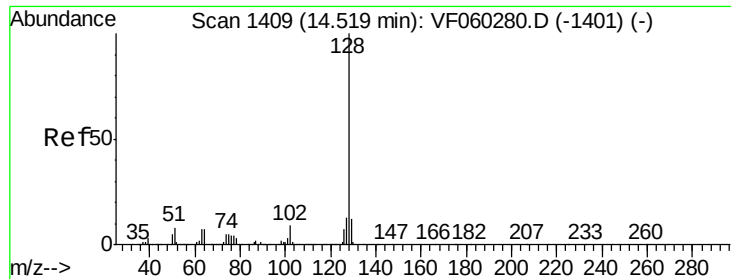
Tot Ion:105 Resp: 930
 Ion Ratio Lower Upper
 105 100
 134 64.4 9.6 28.6#



#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.00 min
 Lab File: VF060319.D
 Acq: 21 Sep 2018 18:24

Tgt Ion:119 Resp: 820
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.9 38.7#
 91 43.8 11.9 35.7#





#95

Naphthalene

Concen: 1.076 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.00 min

Lab File: VF060319.D

Acq: 21 Sep 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

PL-02-0920-18-BRE

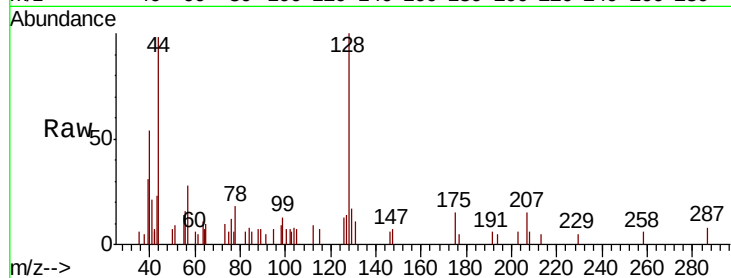
Tot Ion:128 Resp: 2987

Ion Ratio Lower Upper

128 100

127 14.3 10.1 15.1

129 16.8 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

