

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\
 Data File : VF060315.D
 Acq On : 21 Sep 2018 14:41
 Operator : VA/AP
 Sample : J5046-02RE
 Misc : 5.15/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S-1ARE

Quant Time: Sep 22 02:25:11 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

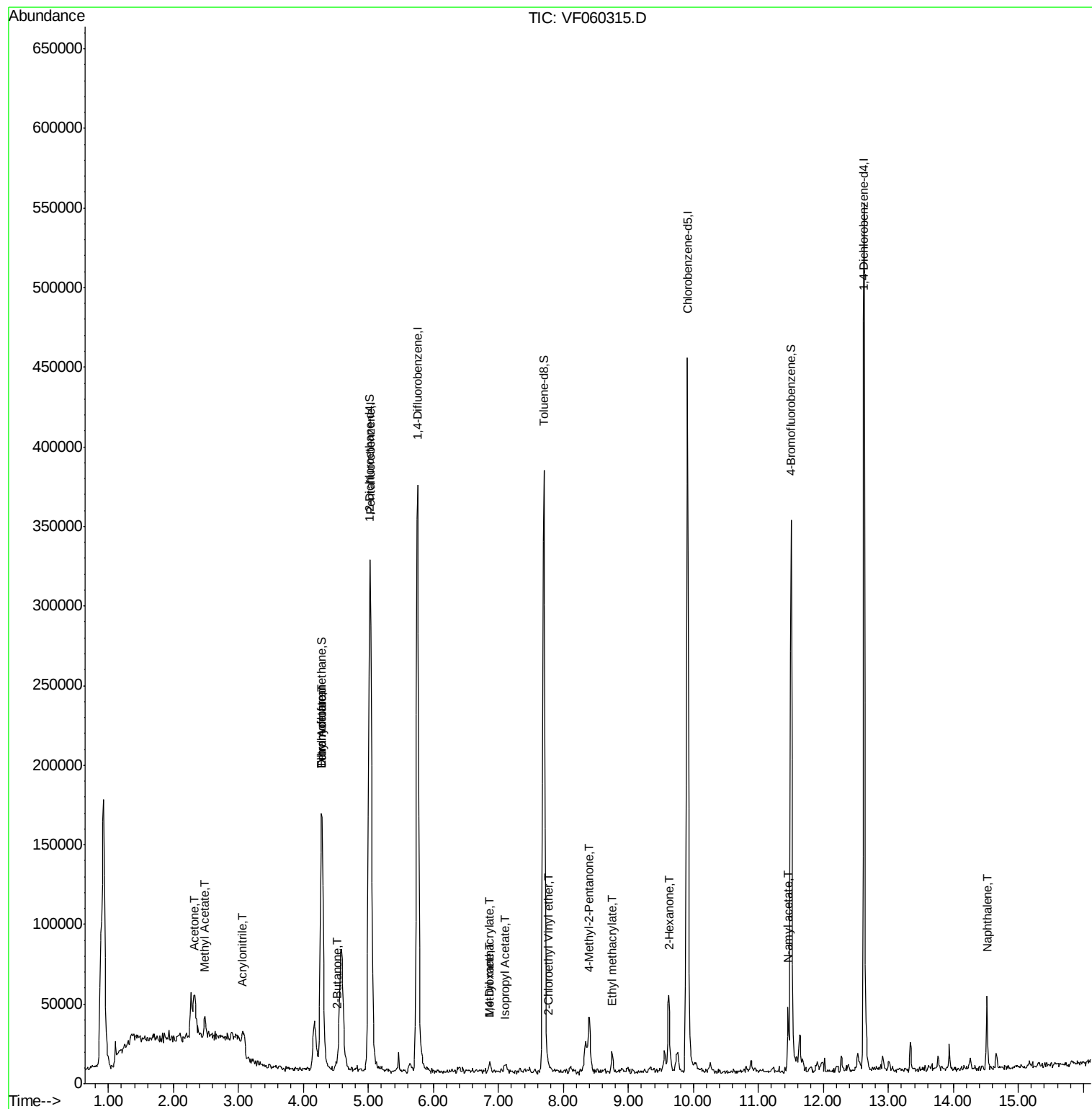
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	231043	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	403508	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	311983	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	139040	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	131789	42.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.72%	
35) Dibromofluoromethane	4.28	113	148320	41.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.46%	
50) Toluene-d8	7.70	98	330776	35.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.62%	
62) 4-Bromofluorobenzene	11.50	95	126074	31.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	62.28%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	530	Below Cal	#	66
5) Bromomethane	1.39	94	306	Below Cal		99
11) Tert butyl alcohol	2.68	59	1761	Below Cal	#	1
13) Acrolein	2.10	56	578	Below Cal	#	1
15) Acrylonitrile	3.06	53	3495	7.954	ug/l #	47
16) Acetone	2.34	43	8228	9.391	ug/l #	86
17) Carbon Disulfide	1.88	76	116	Below Cal	#	1
18) Methyl Acetate	2.49	43	8598	5.891	ug/l #	62
20) Methylene Chloride	2.27	84	13121	Below Cal		91
25) 2-Butanone	4.51	43	6370	5.402	ug/l	93
29) Tetrahydrofuran	4.28	42	1190	2.756	ug/l #	44
37) Ethyl Acetate	4.27	43	3037	1.426	ug/l #	10
43) Isopropyl Acetate	7.10	43	8387	3.271	ug/l #	82
48) Methyl methacrylate	6.86	41	2844	1.580	ug/l #	71
49) 1,4-Dioxane	6.87	88	484	30.102	ug/l #	44
51) 4-Methyl-2-Pentanone	8.39	43	29066	14.709	ug/l	96
56) Ethyl methacrylate	8.74	69	9255	3.497	ug/l #	82
58) 2-Chloroethyl Vinyl ether	7.78	63	391	1.671	ug/l	100
59) 2-Hexanone	9.62	43	42209	30.000	ug/l	95
74) N-amyl acetate	11.45	43	23582	8.860	ug/l	94
78) n-propylbenzene	11.67	91	4177	Below Cal		87
85) sec-Butylbenzene	12.38	105	2864	Below Cal		88
86) p-Isopropyltoluene	12.53	119	3008	Below Cal	#	87
89) n-Butylbenzene	12.91	91	5026	Below Cal		78
95) Naphthalene	14.52	128	32302	5.286	ug/l	95

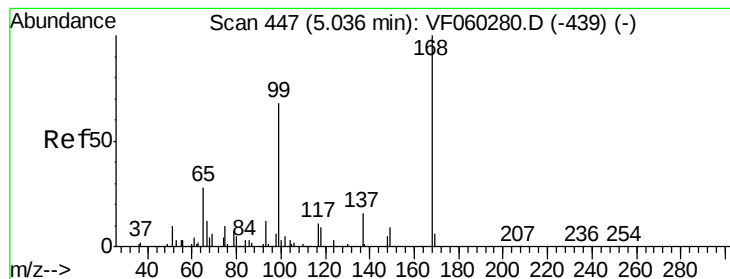
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

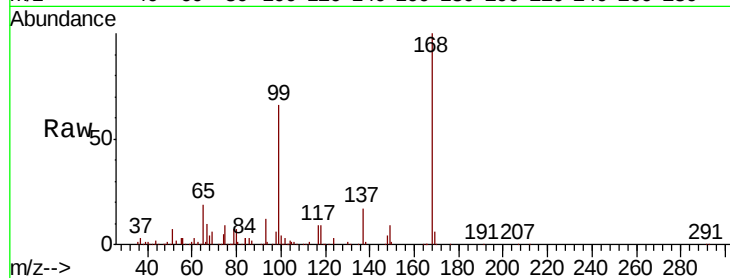
S-1ARE

Tot Ion:168 Resp: 231043

Ion Ratio Lower Upper

168 100

99 66.1 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

80000

60000

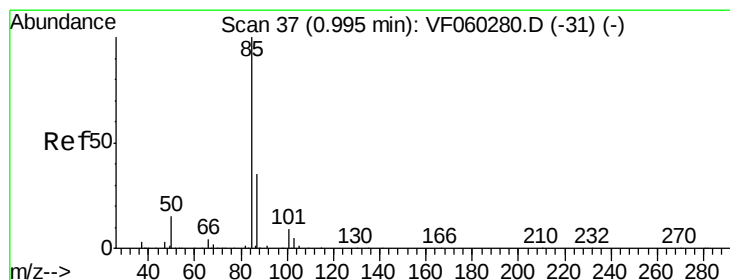
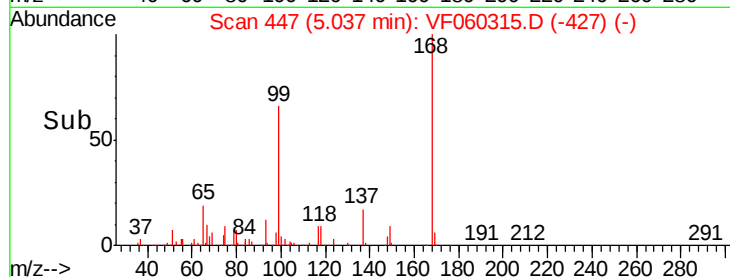
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060315.D

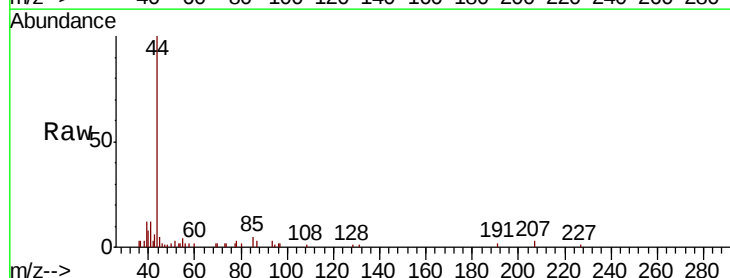
Acq: 21 Sep 2018 14:41

Tgt Ion: 85 Resp: 530

Ion Ratio Lower Upper

85 100

87 54.1 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

400

300

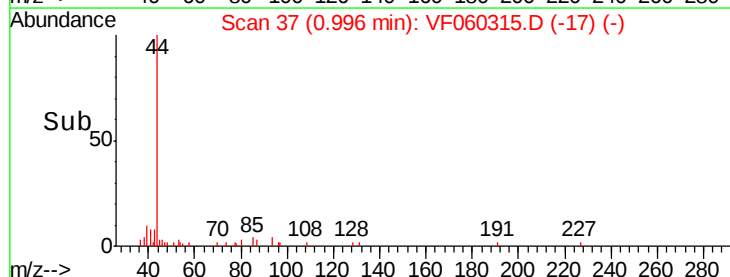
200

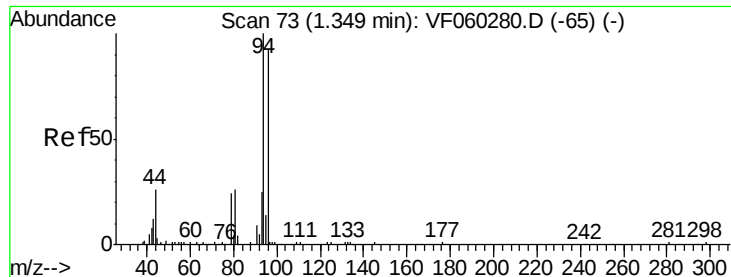
100

0

Time-->

0.96 0.98 1.00 1.02





#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.04 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

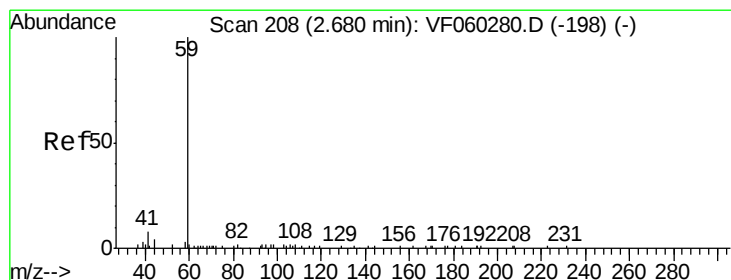
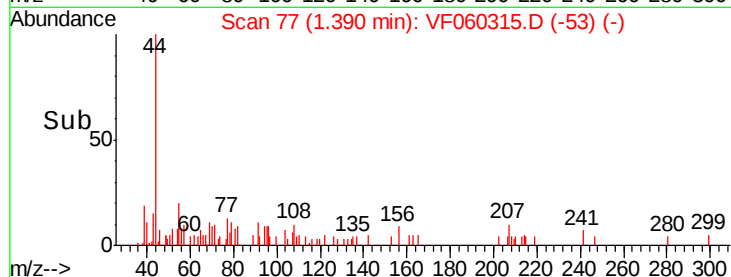
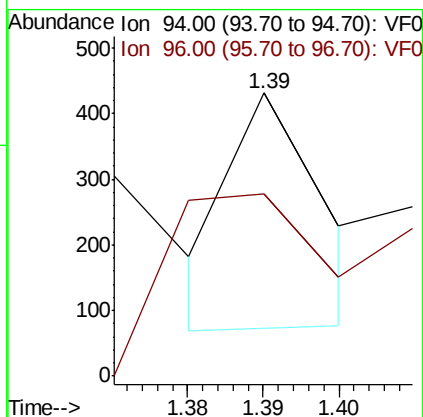
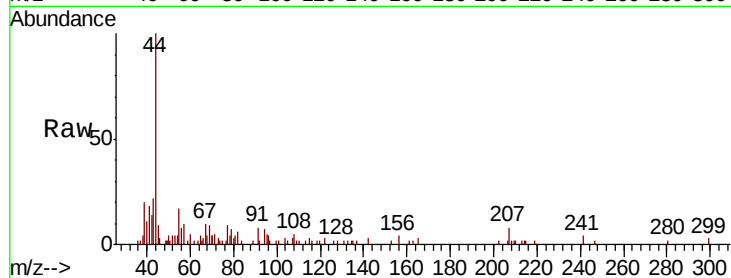
S-1ARE

Tot Ion: 94 Resp: 306

Ion Ratio Lower Upper

94 100

96 91.9 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.68 min Scan# 208

Delta R.T. 0.00 min

Lab File: VF060315.D

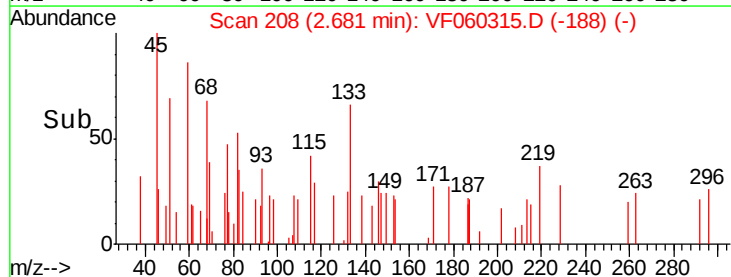
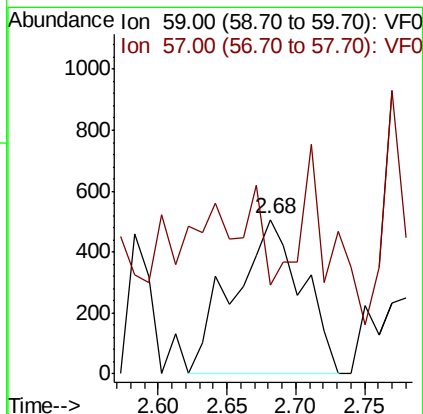
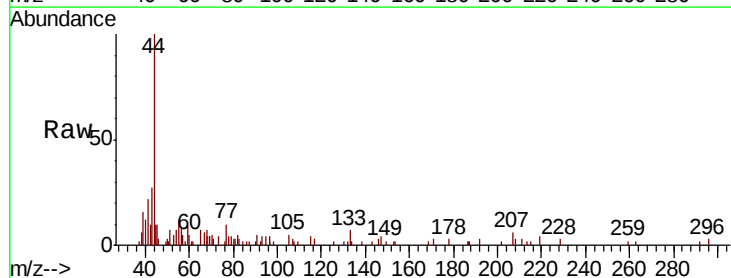
Acq: 21 Sep 2018 14:41

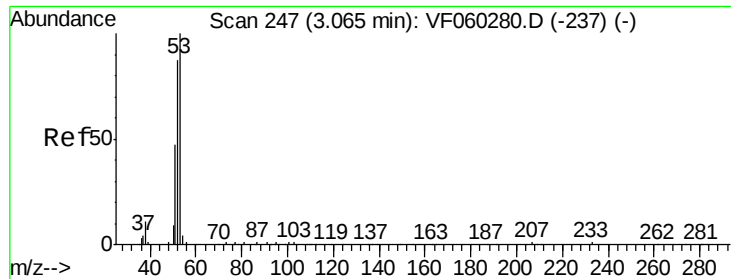
Tgt Ion: 59 Resp: 1761

Ion Ratio Lower Upper

59 100

57 57.8 12.4 18.6#





#15

Acrylonitrile

Concen: 7.954 ug/l

RT: 3.06 min Scan# 246

Delta R.T. -0.01 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

S-1ARE

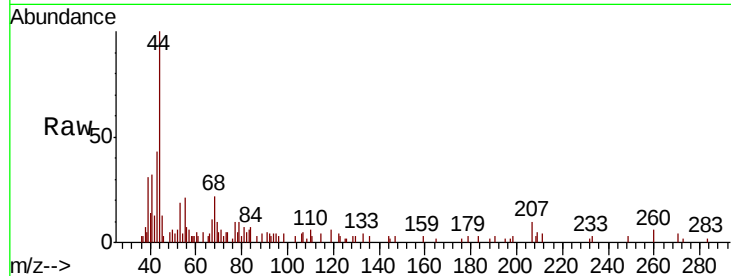
Tot Ion: 53 Resp: 3495

Ion Ratio Lower Upper

53 100

52 33.0 69.5 104.3#

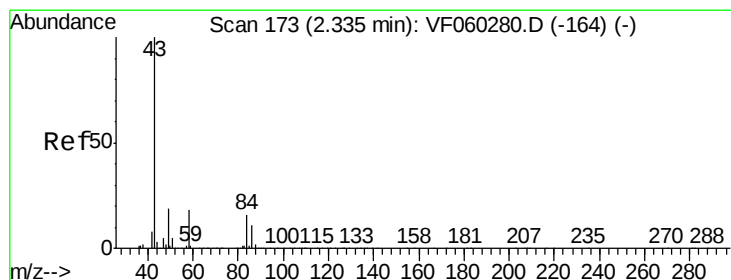
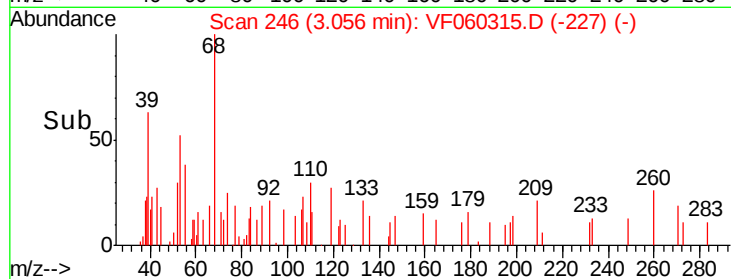
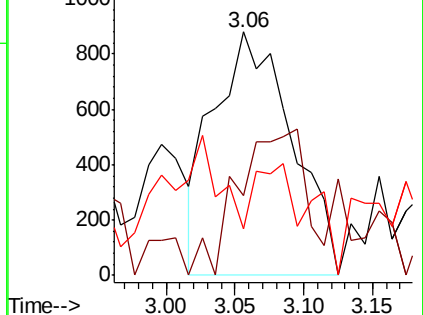
51 19.0 38.1 57.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 9.391 ug/l

RT: 2.34 min Scan# 173

Delta R.T. 0.00 min

Lab File: VF060315.D

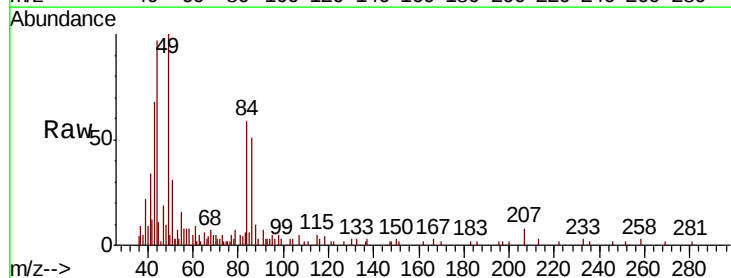
Acq: 21 Sep 2018 14:41

Tgt Ion: 43 Resp: 8228

Ion Ratio Lower Upper

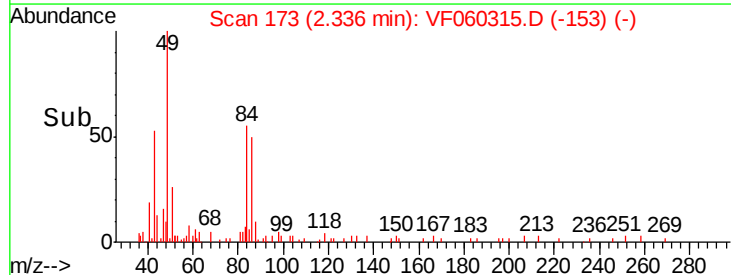
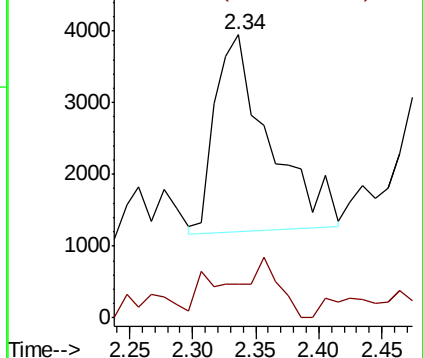
43 100

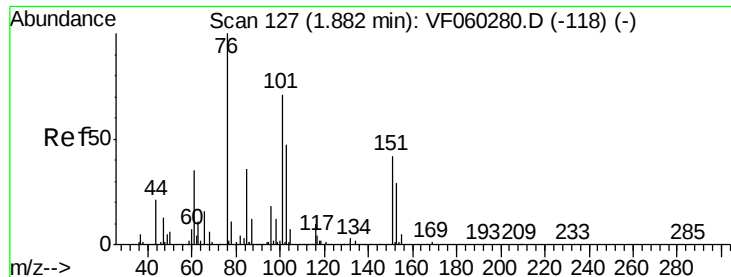
58 11.9 14.5 21.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.88 min Scan# 127

Delta R.T. 0.00 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

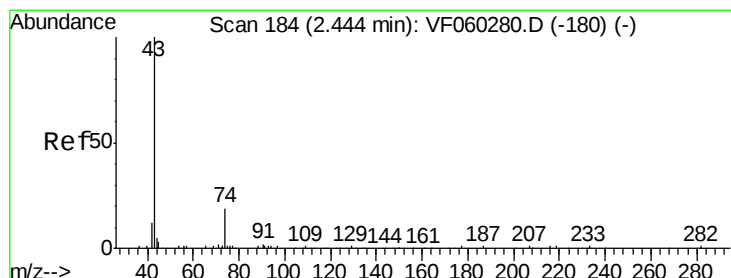
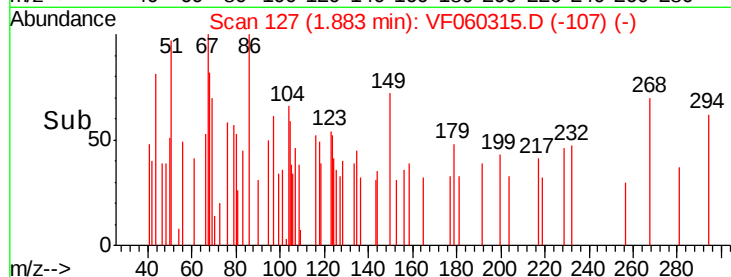
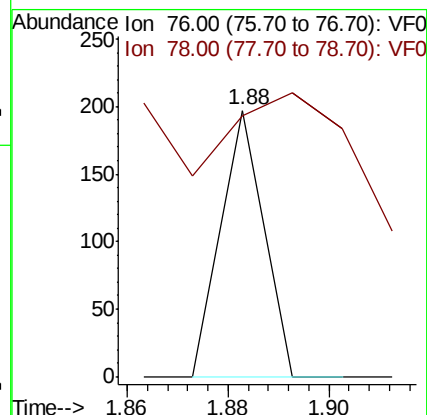
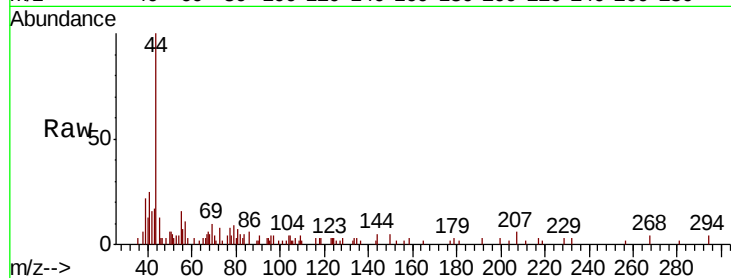
S-1ARE

Tot Ion: 76 Resp: 116

Ion Ratio Lower Upper

76 100

78 98.0 9.4 14.0#



#18

Methyl Acetate

Concen: 5.891 ug/l

RT: 2.49 min Scan# 189

Delta R.T. 0.05 min

Lab File: VF060315.D

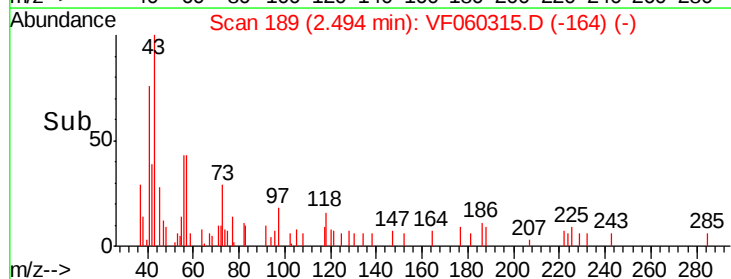
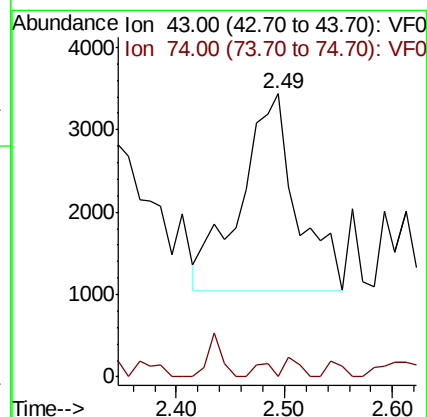
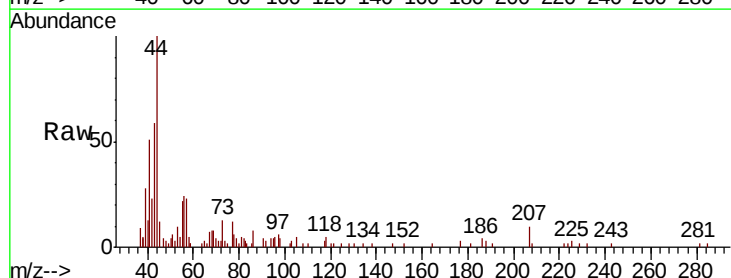
Acq: 21 Sep 2018 14:41

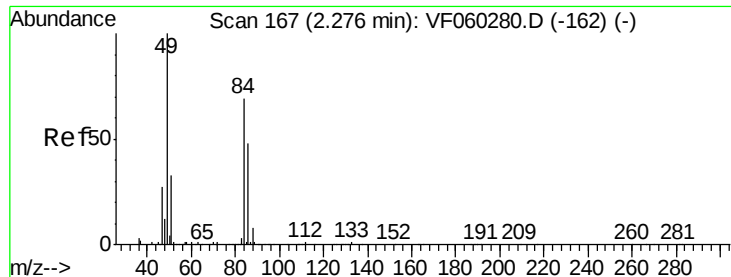
Tgt Ion: 43 Resp: 8598

Ion Ratio Lower Upper

43 100

74 0.0 12.7 19.1#

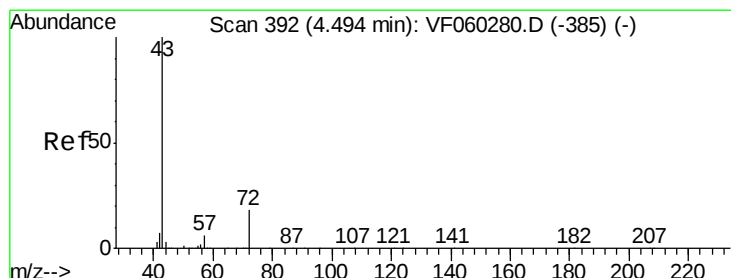
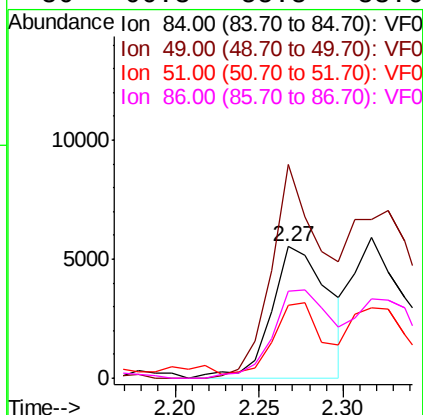
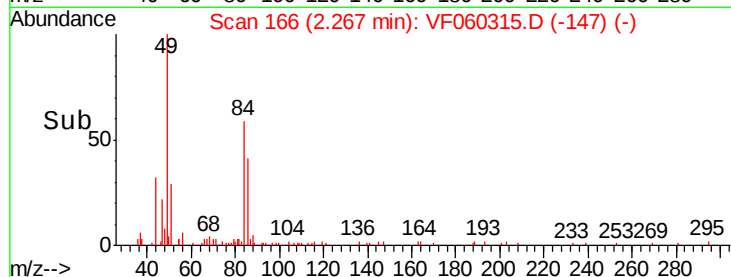
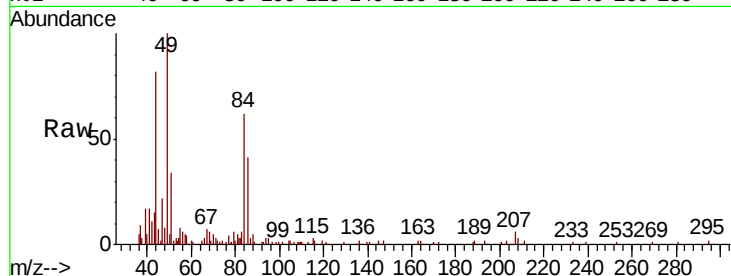




#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

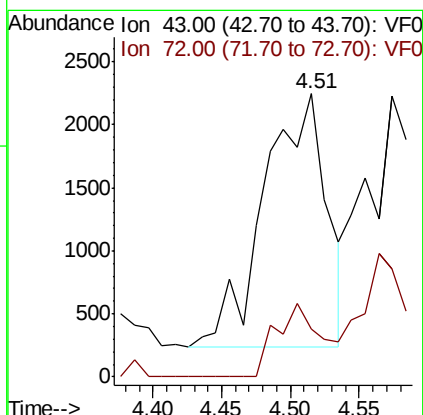
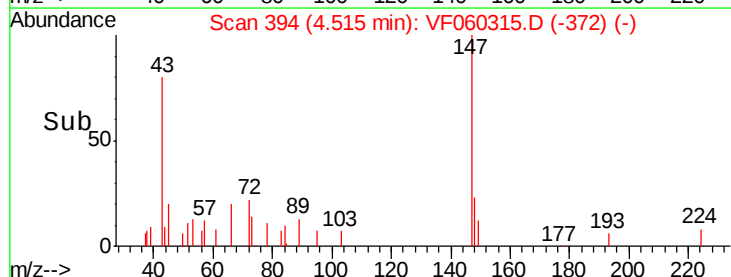
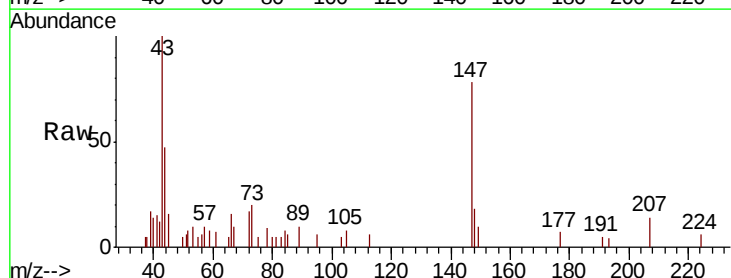
Instrument :
MSVOA_F
ClientSampleId :
S-1ARE

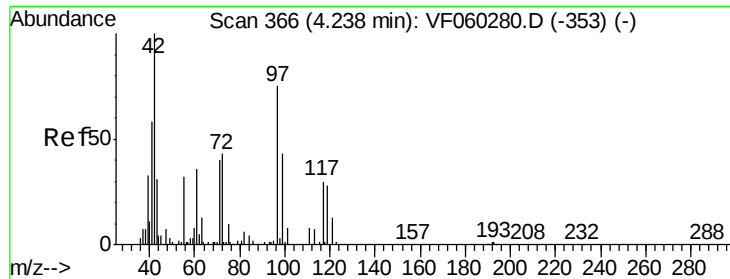
Tot Ion:	84	Resp:	13121
Ion	Ratio	Lower	Upper
84	100		
49	162.4	118.3	177.5
51	55.6	38.7	58.1
86	66.3	55.8	83.6



#25
2-Butanone
Concen: 5.402 ug/l
RT: 4.51 min Scan# 394
Delta R.T. 0.02 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

Tgt Ion:	43	Resp:	6370
Ion	Ratio	Lower	Upper
43	100		
72	16.8	16.2	24.2





#29

Tetrahydrofuran

Concen: 2.756 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.04 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

S-1ARE

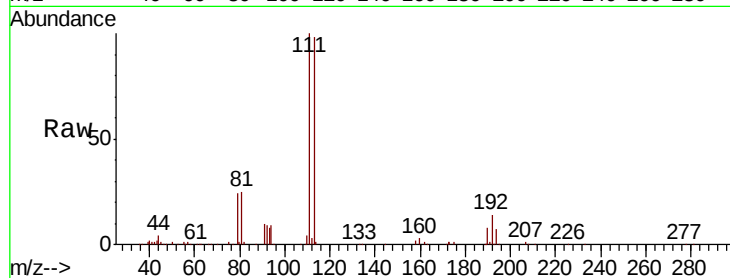
Tot Ion: 42 Resp: 1190

Ion Ratio Lower Upper

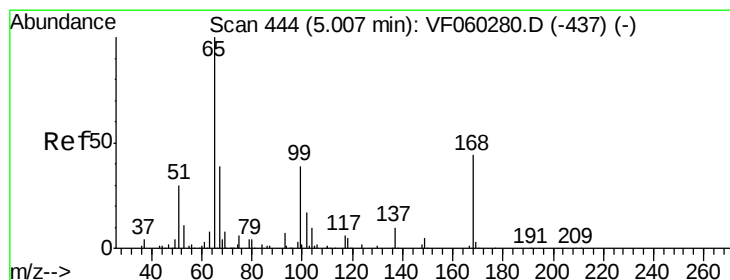
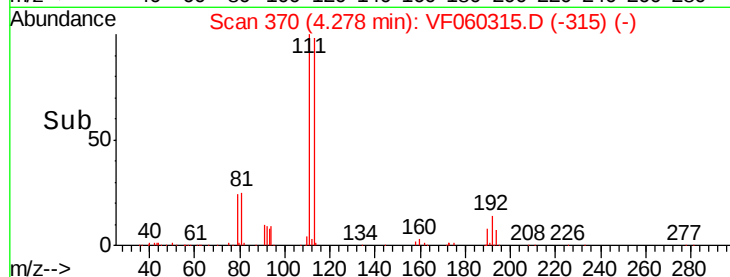
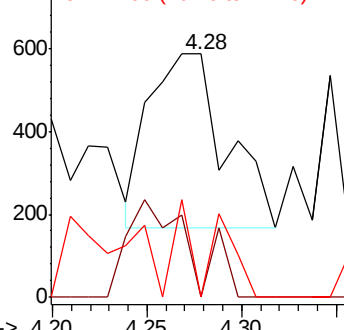
42 100

72 0.0 32.6 49.0#

71 11.7 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: 42.361 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060315.D

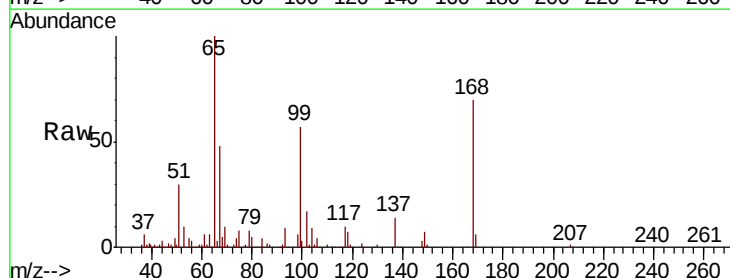
Acq: 21 Sep 2018 14:41

Tgt Ion: 65 Resp: 131789

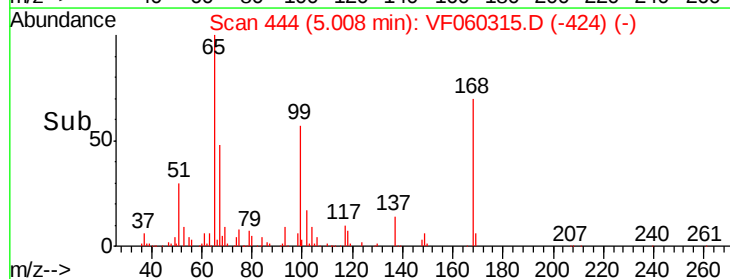
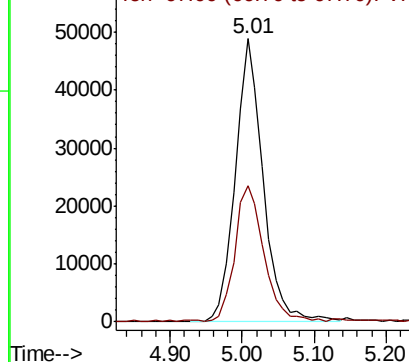
Ion Ratio Lower Upper

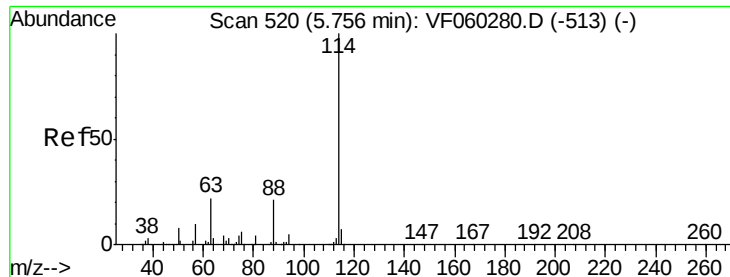
65 100

67 48.0 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: 5.76 min Scan# 520

Delta R.T. 0.00 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

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ClientSampleId :

S-1ARE

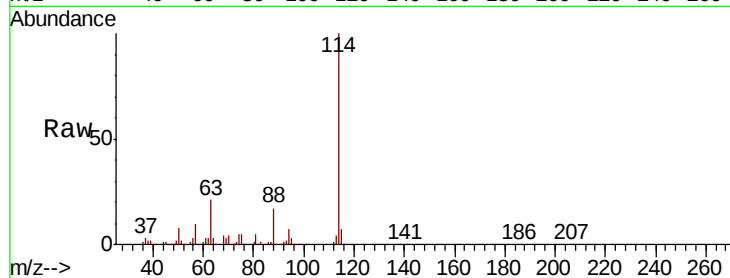
Tot Ion:114 Resp: 403508

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.8

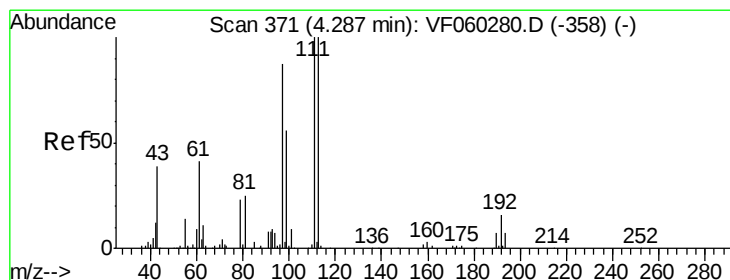
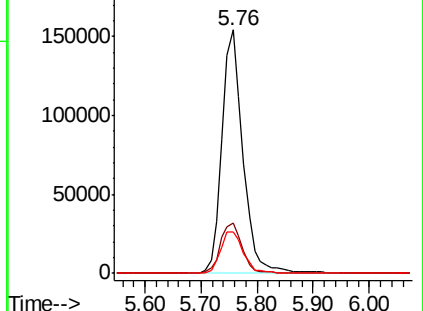
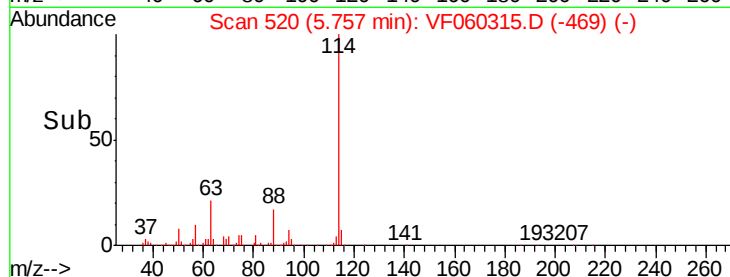
88 17.0 0.0 41.2



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: 41.235 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

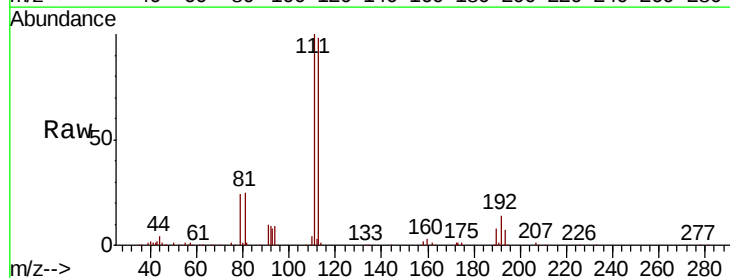
Tgt Ion:113 Resp: 148320

Ion Ratio Lower Upper

113 100

111 102.3 79.6 119.4

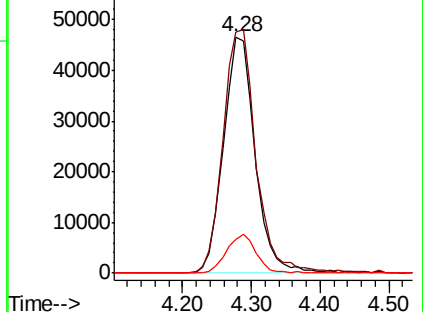
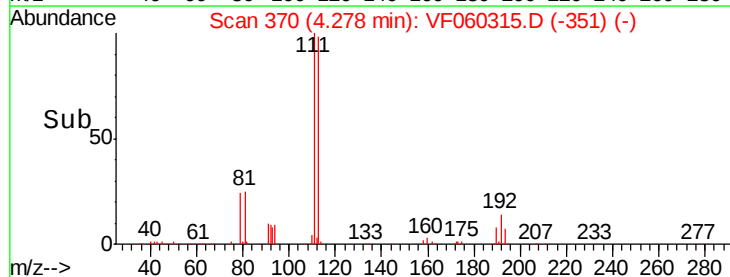
192 14.5 13.0 19.6

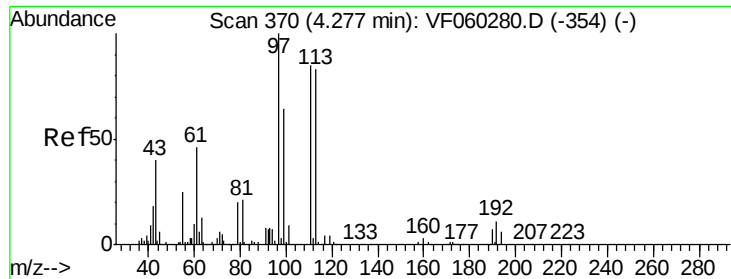


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

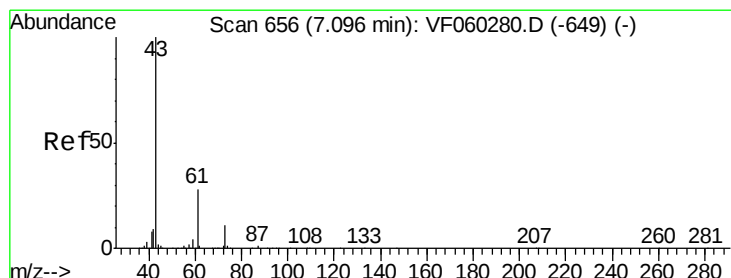
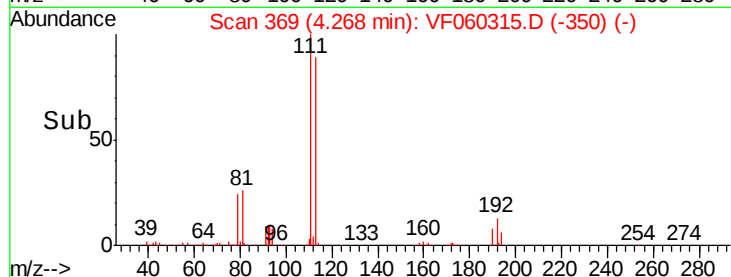
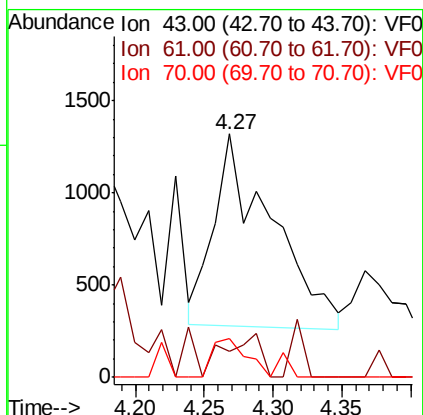
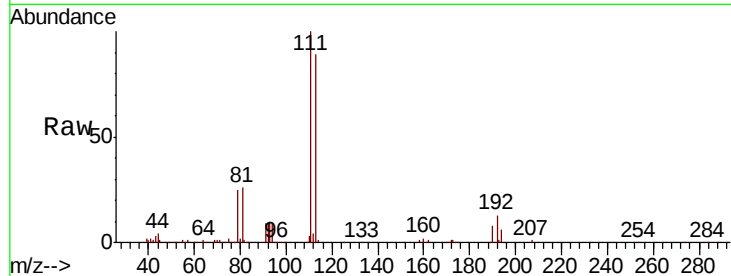




#37
Ethyl Acetate
Concen: 1.426 ug/l
RT: 4.27 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

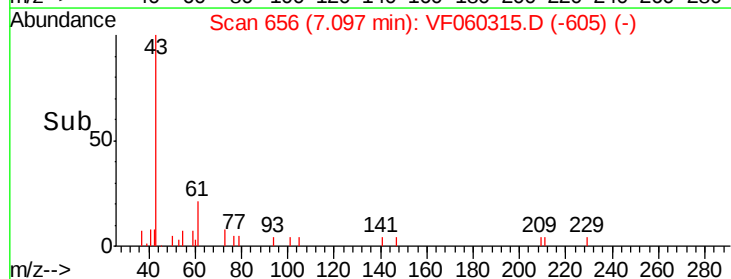
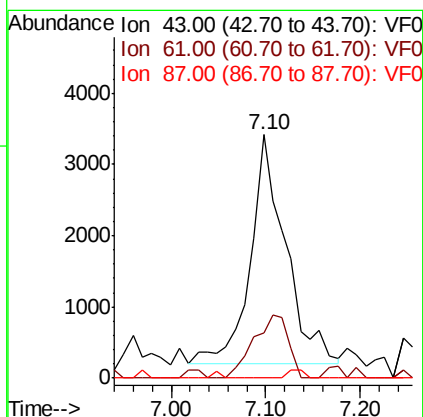
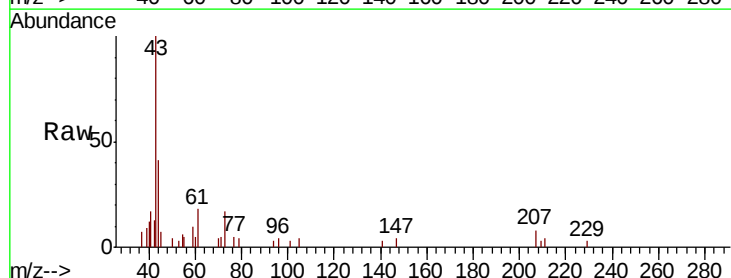
Instrument :
MSVOA_F
ClientSampleId :
S-1ARE

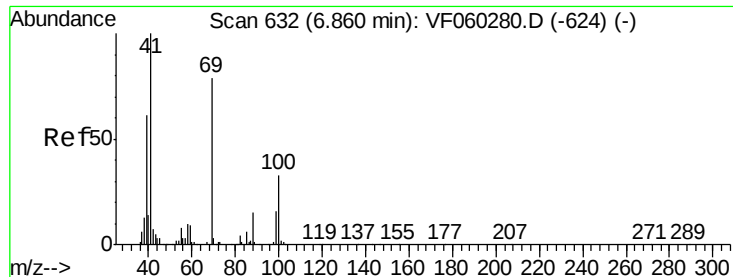
Tot Ion: 43 Resp: 3037
Ion Ratio Lower Upper
43 100
61 10.7 91.1 136.7#
70 15.8 6.9 10.3#



#43
Isopropyl Acetate
Concen: 3.271 ug/l
RT: 7.10 min Scan# 656
Delta R.T. 0.00 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

Tgt Ion: 43 Resp: 8387
Ion Ratio Lower Upper
43 100
61 18.5 22.4 33.6#
87 0.0 0.6 0.8#

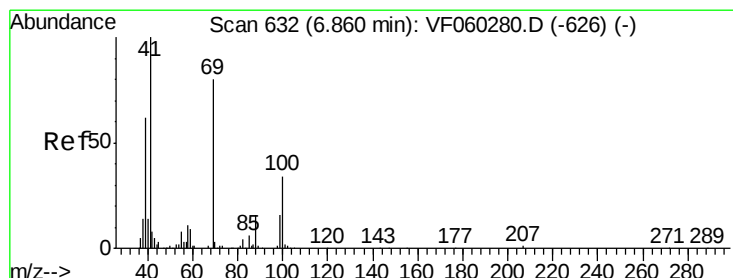
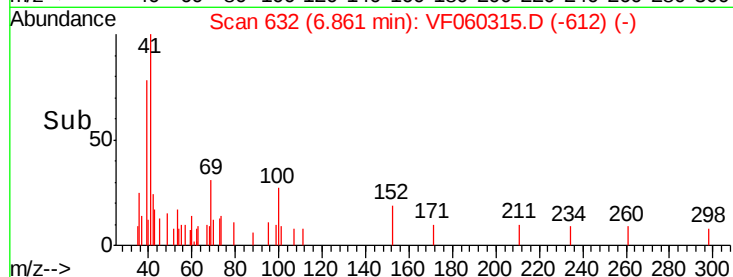
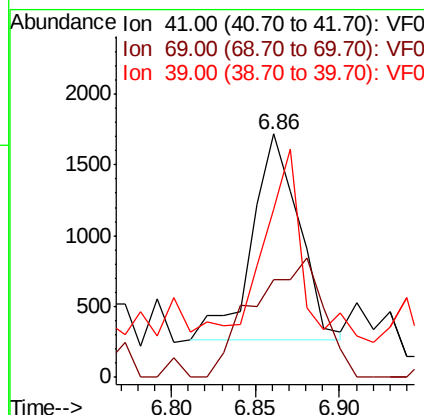
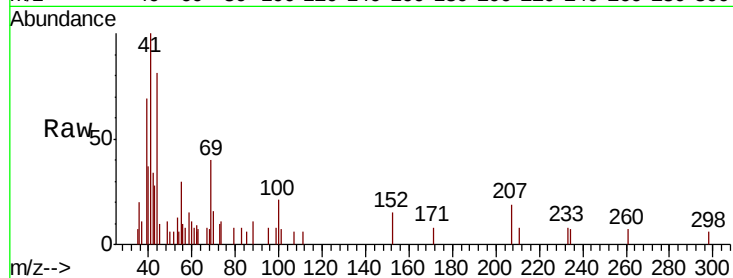




#48
Methyl methacrylate
Concen: 1.580 ug/l
RT: 6.86 min Scan# 632
Delta R.T. 0.00 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

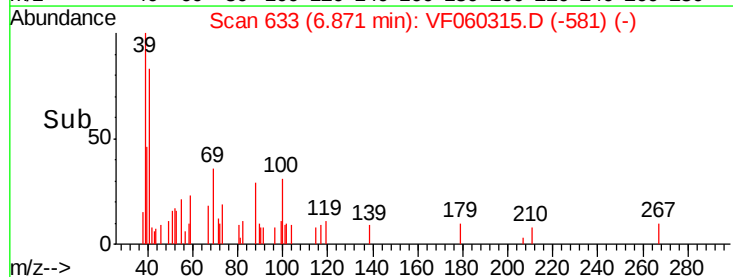
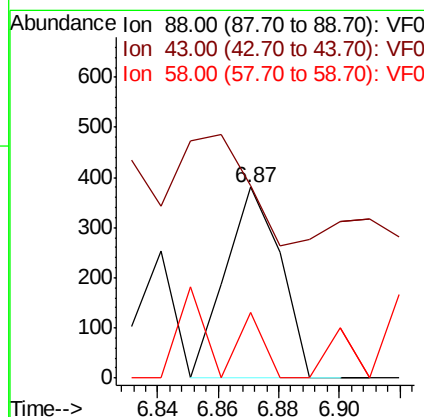
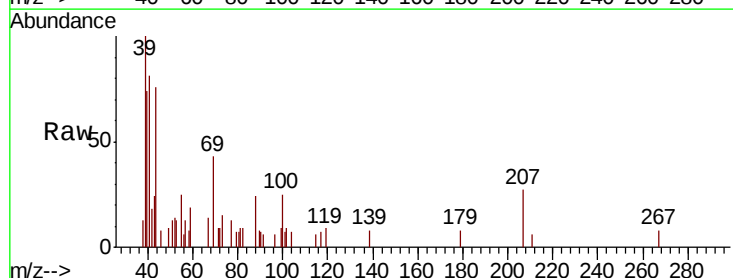
Instrument :
MSVOA_F
ClientSampleId :
S-1ARE

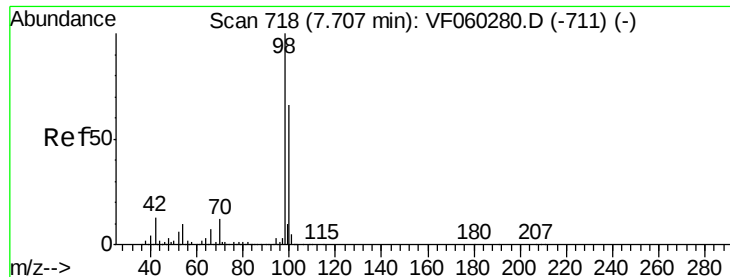
Tot Ion: 41 Resp: 2844
Ion Ratio Lower Upper
41 100
69 40.2 62.6 94.0#
39 68.9 49.1 73.7



#49
1,4-Dioxane
Concen: 30.102 ug/l
RT: 6.87 min Scan# 633
Delta R.T. 0.01 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

Tgt Ion: 88 Resp: 484
Ion Ratio Lower Upper
88 100
43 100.8 40.2 60.4#
58 34.1 56.7 85.1#





#50

Toluene-d8

Concen: 35.312 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.01 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

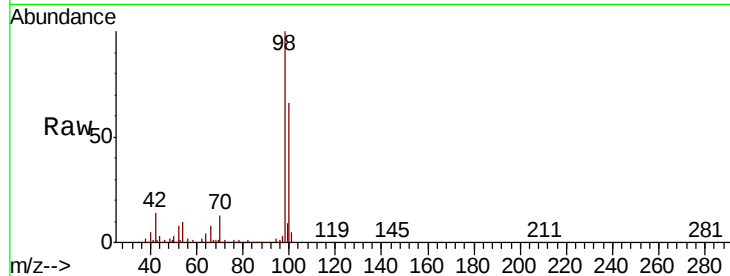
S-1ARE

Tot Ion: 98 Resp: 330776

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

150000

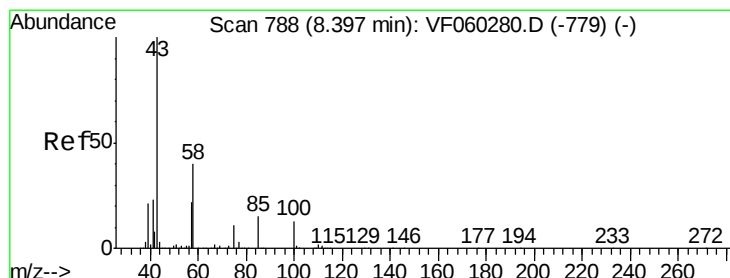
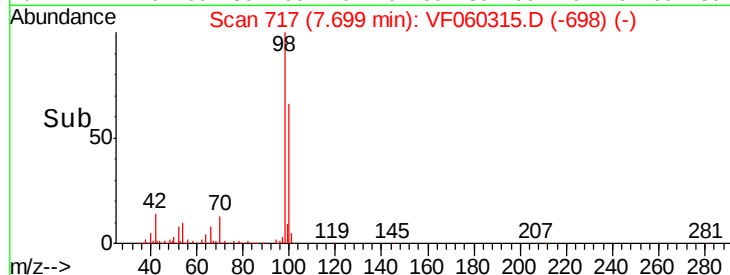
100000

50000

0

7.60 7.70 7.80 7.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 14.709 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060315.D

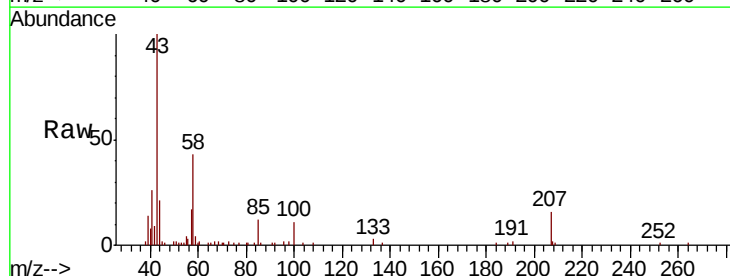
Acq: 21 Sep 2018 14:41

Tgt Ion: 43 Resp: 29066

Ion Ratio Lower Upper

43 100

58 42.5 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.39

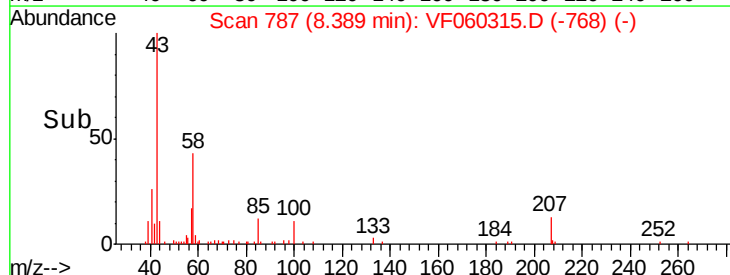
10000

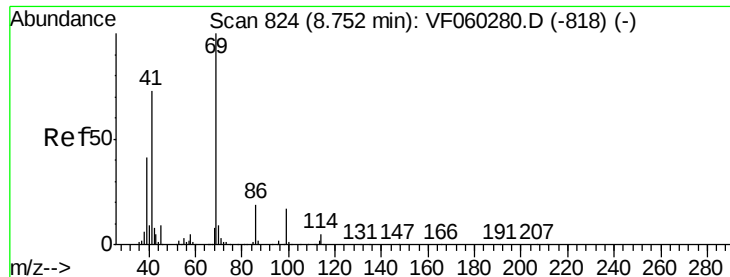
5000

0

8.30 8.40 8.50

Time-->





#56

Ethyl methacrylate

Concen: 3.497 ug/l

RT: 8.74 min Scan# 823

Delta R.T. -0.01 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampled :

S-1ARE

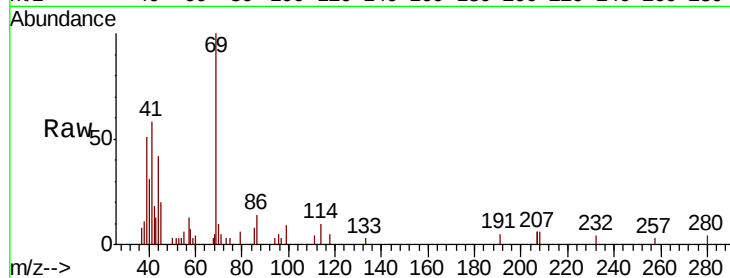
Tot Ion: 69 Resp: 9255

Ion Ratio Lower Upper

69 100

41 57.7 59.4 89.2#

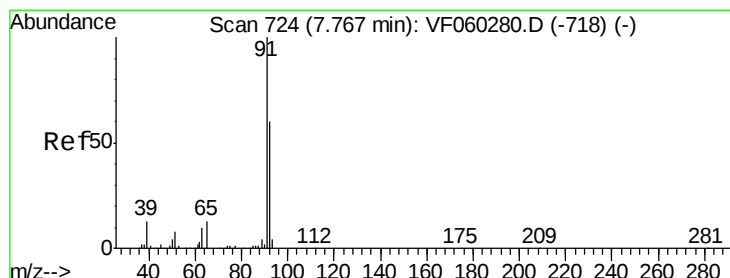
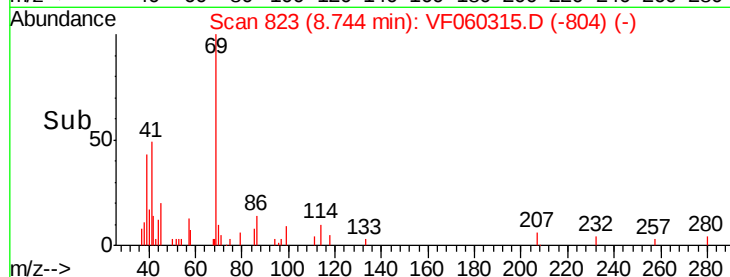
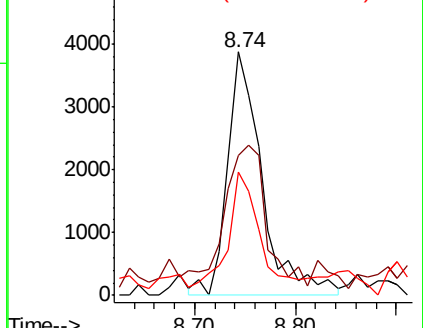
39 50.6 33.5 50.3#



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: 1.671 ug/l

RT: 7.78 min Scan# 725

Delta R.T. 0.01 min

Lab File: VF060315.D

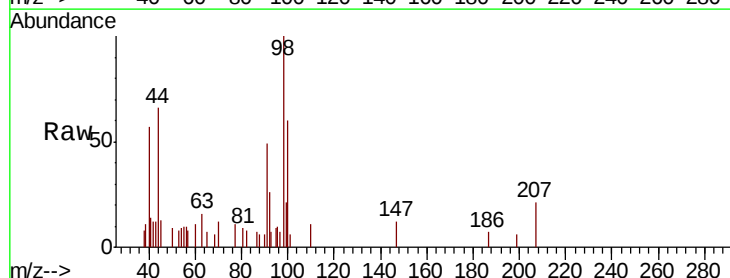
Acq: 21 Sep 2018 14:41

Tgt Ion: 63 Resp: 391

Ion Ratio Lower Upper

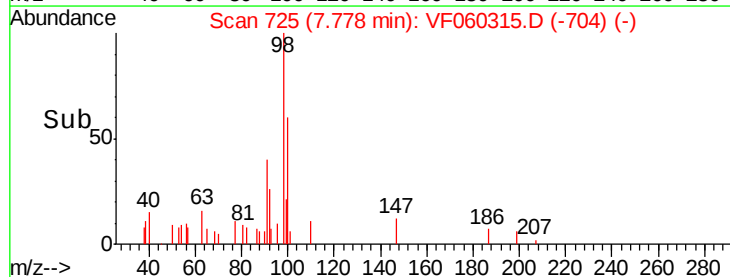
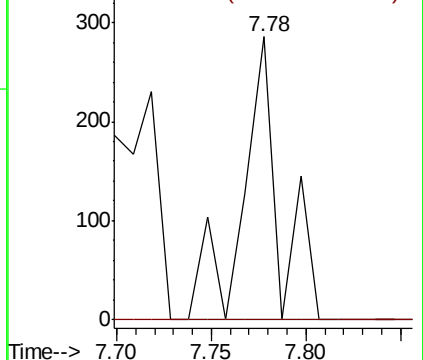
63 100

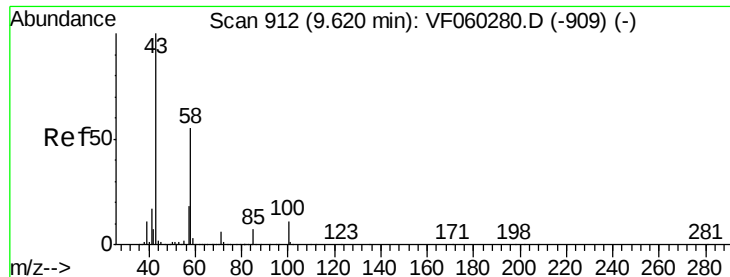
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

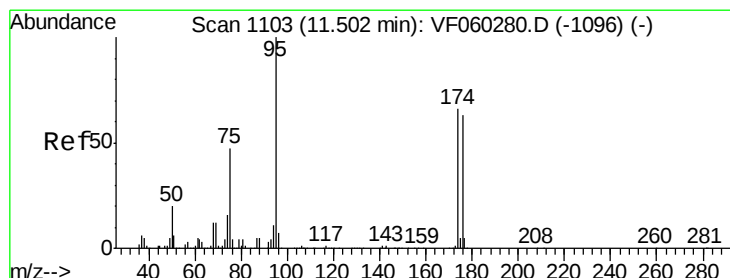
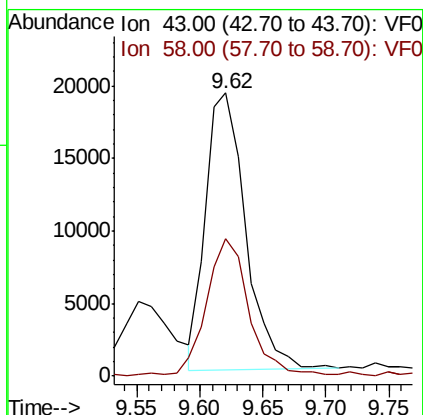
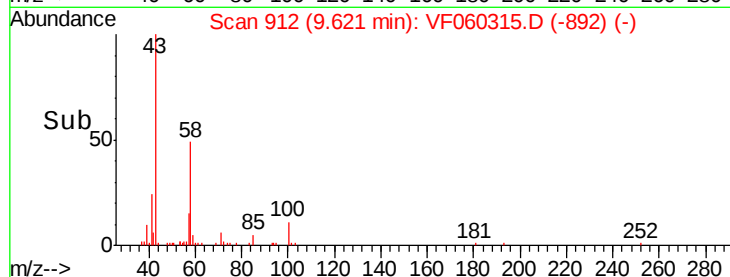
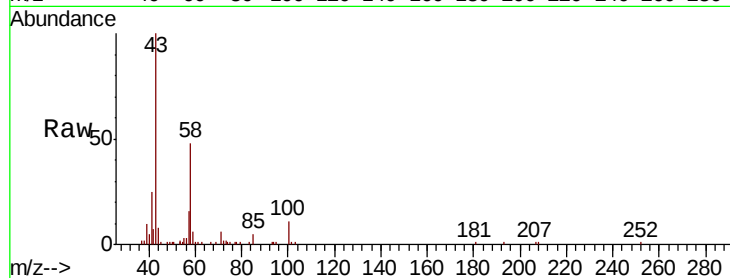




#59
2-Hexanone
Concen: 30.000 ug/l
RT: 9.62 min Scan# 912
Delta R.T. 0.00 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

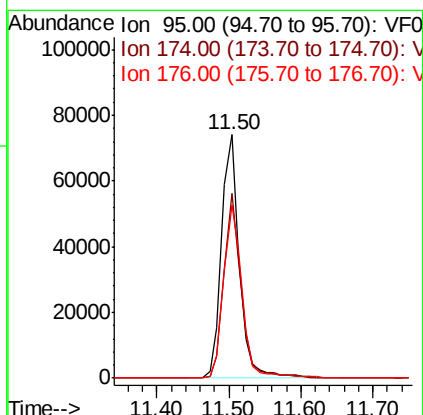
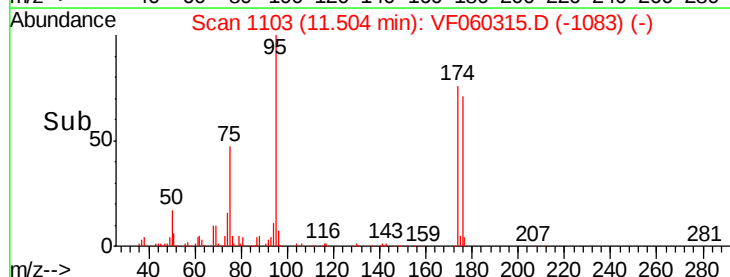
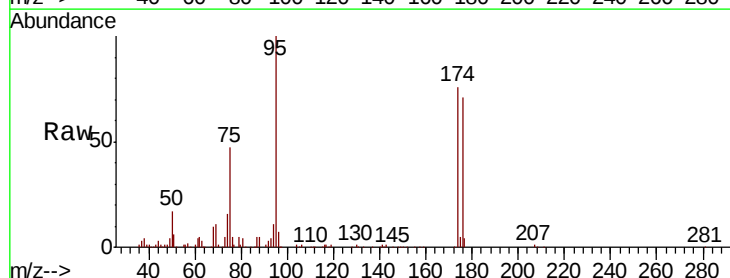
Instrument :
MSVOA_F
ClientSampled :
S-1ARE

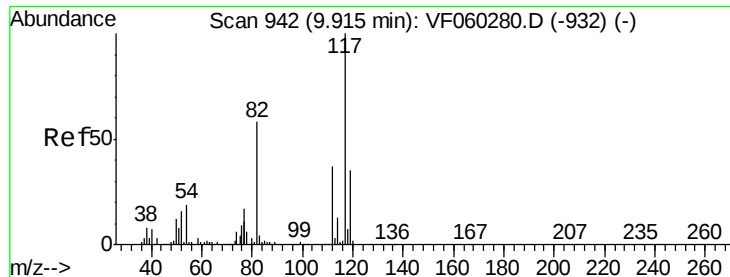
Tot Ion: 43 Resp: 42209
Ion Ratio Lower Upper
43 100
58 48.4 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 31.136 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

Tgt Ion: 95 Resp: 126074
Ion Ratio Lower Upper
95 100
174 75.9 0.0 131.2
176 71.0 0.0 126.6

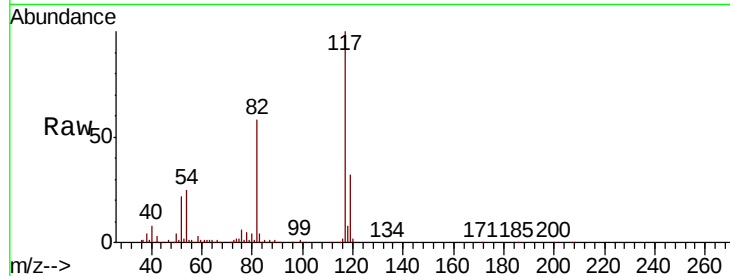




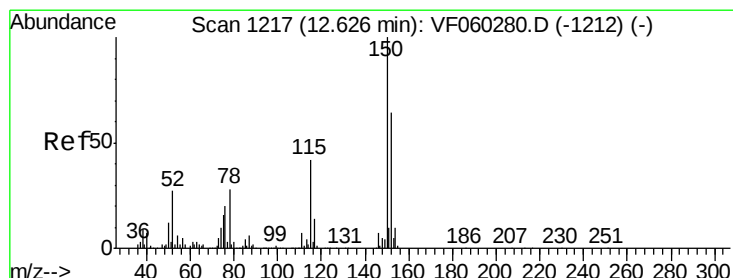
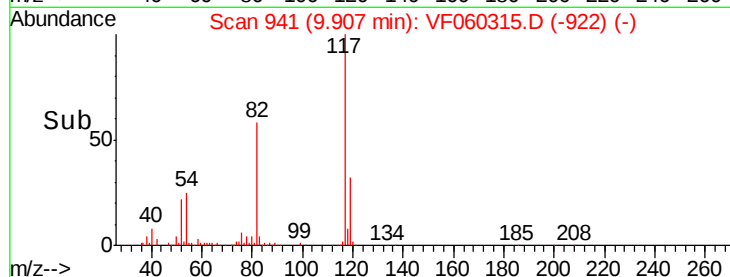
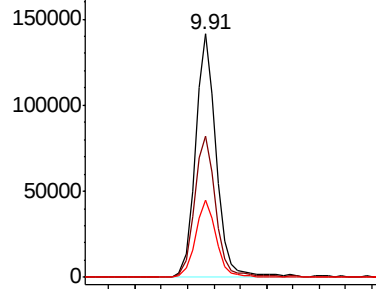
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

Instrument :
MSVOA_F
ClientSampleId :
S-1ARE

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.2	69.2
119	31.7	27.8	41.6

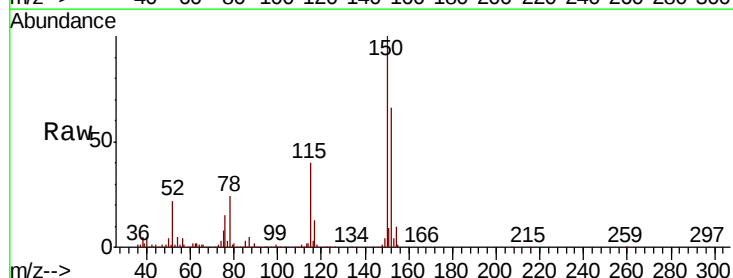


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

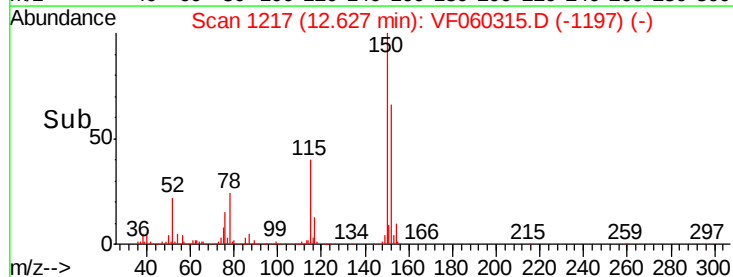
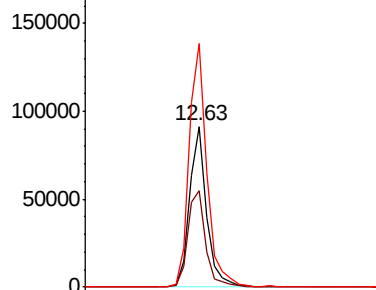


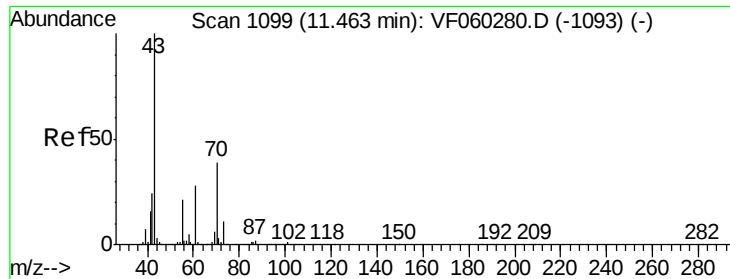
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VF060315.D
Acq: 21 Sep 2018 14:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.2	32.6	97.8
150	151.3	0.0	314.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 8.860 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

S-1ARE

Tot Ion: 43 Resp: 23582

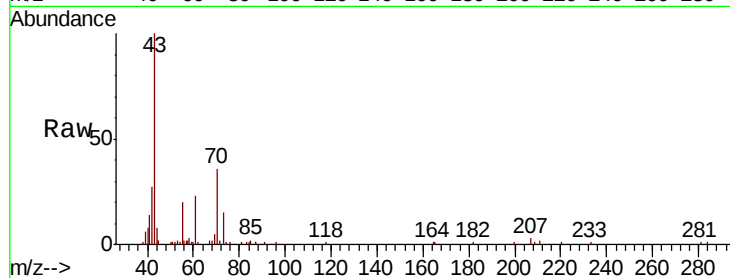
Ion Ratio Lower Upper

43 100

70 36.1 31.4 47.2

55 20.3 16.8 25.2

61 23.2 22.6 34.0

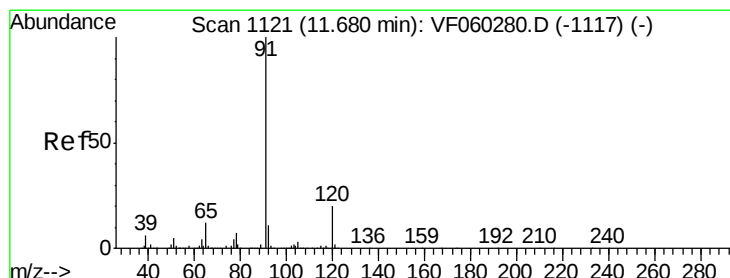
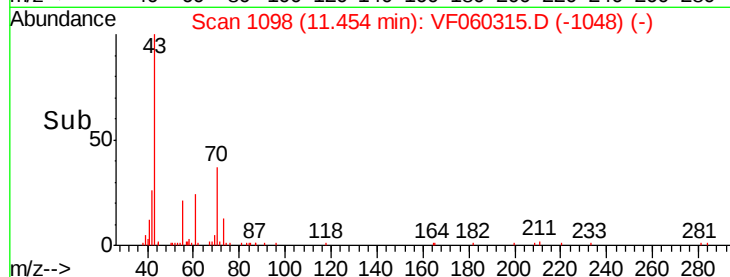
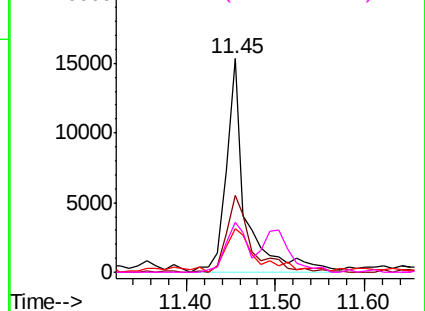


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060315.D

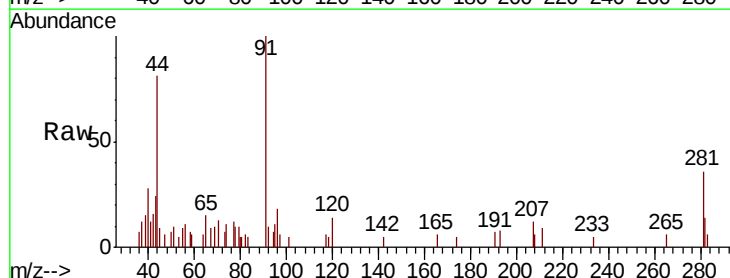
Acq: 21 Sep 2018 14:41

Tgt Ion: 91 Resp: 4177

Ion Ratio Lower Upper

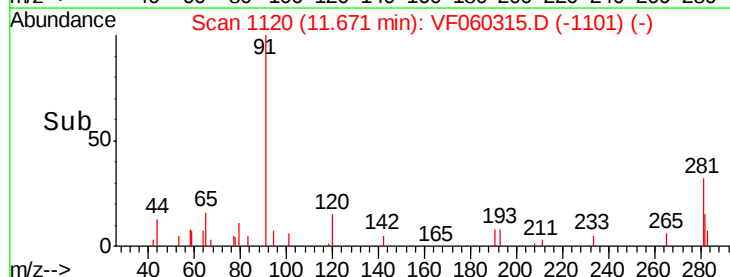
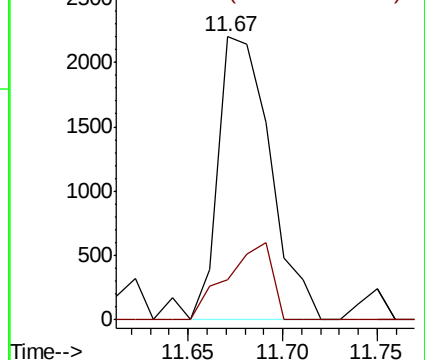
91 100

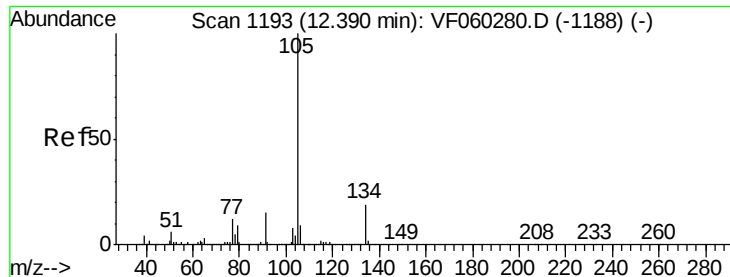
120 14.1 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

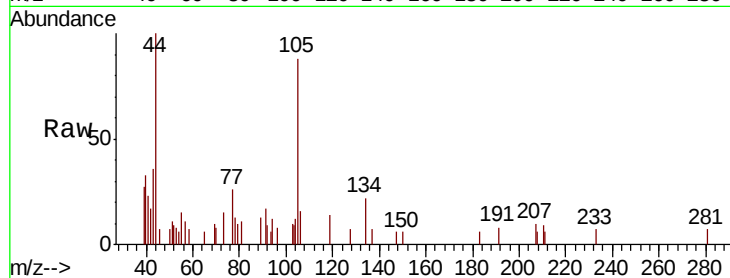
S-1ARE

Tot Ion:105 Resp: 2864

Ion Ratio Lower Upper

105 100

134 24.6 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.38

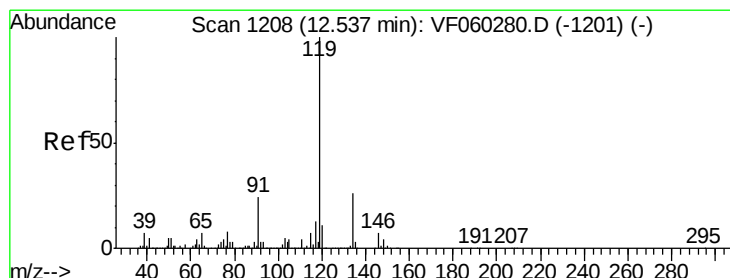
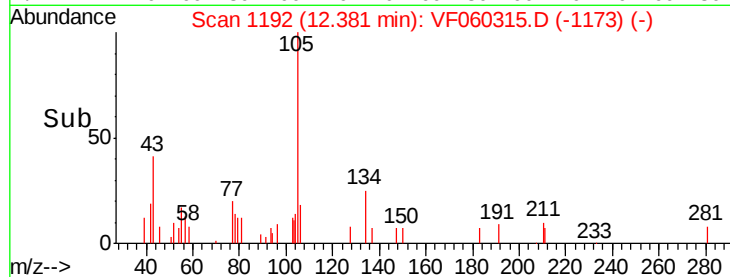
1500

1000

500

0

Time--> 12.30 12.40 12.50



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 12.53 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

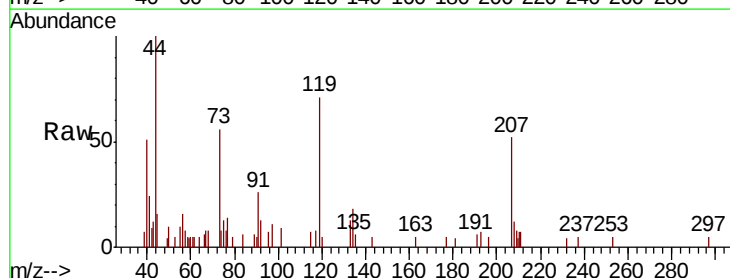
Tgt Ion:119 Resp: 3008

Ion Ratio Lower Upper

119 100

134 25.1 12.9 38.7

91 36.9 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

12.53

2000

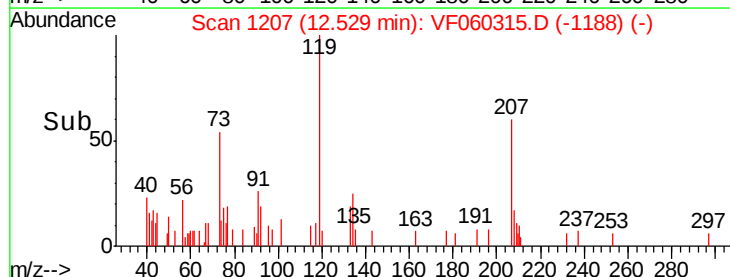
1500

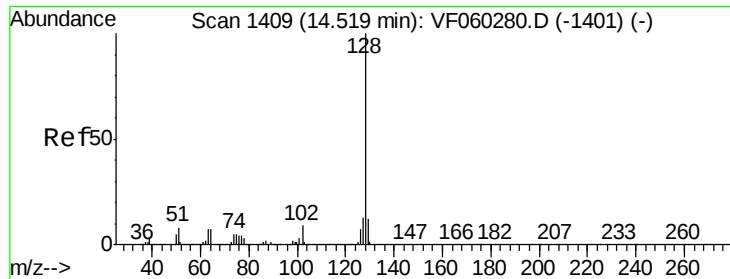
1000

500

0

Time--> 12.45 12.50 12.55 12.60





#95

Naphthalene

Concen: 5.286 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.00 min

Lab File: VF060315.D

Acq: 21 Sep 2018 14:41

Instrument :

MSVOA_F

ClientSampleId :

S-1ARE

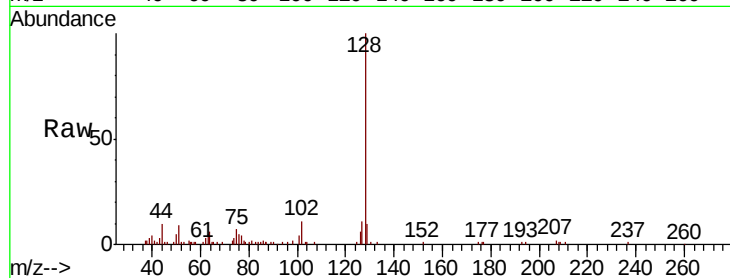
Tot Ion:128 Resp: 32302

Ion Ratio Lower Upper

128 100

127 11.2 10.1 15.1

129 9.9 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

