

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060300.D
 Acq On : 20 Sep 2018 13:45
 Operator : VA/AP
 Sample : J5002-01
 Misc : 11.08/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BACKFILL-12TH-AVE

Quant Time: Sep 20 15:45:59 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	204310	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.74	114	329460	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	308664	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	163846	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	112541	40.91	ug/l	-0.01
Spiked Amount			Recovery	=	81.82%	
35) Dibromofluoromethane	4.28	113	108205	36.84	ug/l	-0.01
Spiked Amount			Recovery	=	73.68%	
50) Toluene-d8	7.69	98	283248	37.03	ug/l	-0.02
Spiked Amount			Recovery	=	74.06%	
62) 4-Bromofluorobenzene	11.49	95	124364	37.62	ug/l	-0.01
Spiked Amount			Recovery	=	75.24%	

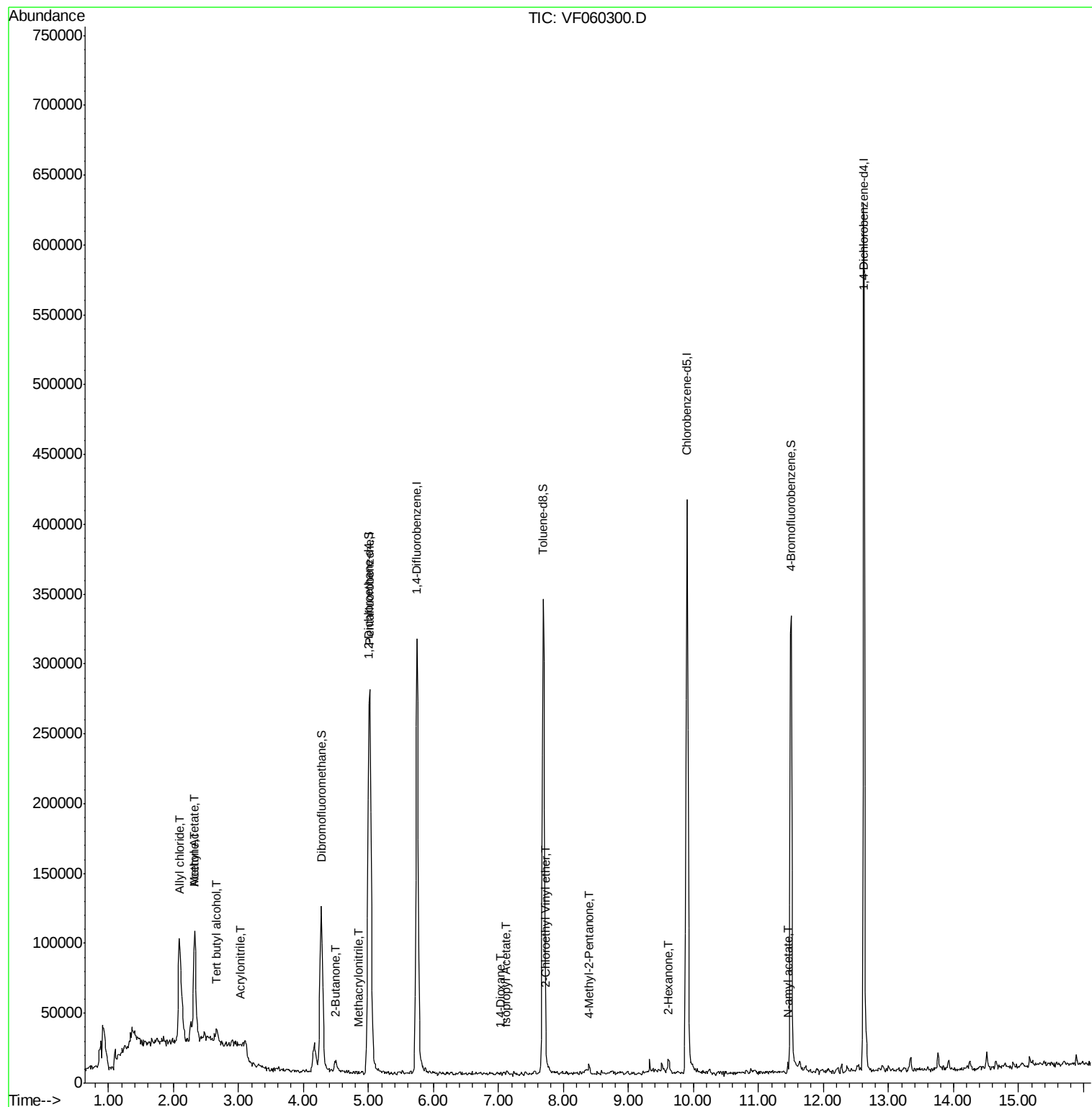
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	716	Below Cal	#	40
5) Bromomethane	1.33	94	695	Below Cal		88
11) Tert butyl alcohol	2.66	59	12443	68.937	ug/l #	65
13) Acrolein	1.99	56	866	Below Cal		92
14) Allyl chloride	2.09	41	38521	9.494	ug/l #	82
15) Acrylonitrile	3.04	53	1355	3.487	ug/l #	57
16) Acetone	2.32	43	130710	168.708	ug/l	94
17) Carbon Disulfide	1.89	76	409	Below Cal	#	1
18) Methyl Acetate	2.32	43	130710	101.271	ug/l #	63
20) Methylene Chloride	2.27	84	10787	Below Cal		90
25) 2-Butanone	4.48	43	16822	16.131	ug/l	98
41) Methacrylonitrile	4.85	41	1030	1.092	ug/l #	69
43) Isopropyl Acetate	7.11	43	2545	1.216	ug/l #	48
49) 1,4-Dioxane	7.04	88	64	4.875	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	6589	4.084	ug/l #	79
58) 2-Chloroethyl Vinyl ether	7.74	63	385	2.015	ug/l	100
59) 2-Hexanone	9.62	43	9509	8.277	ug/l	74
74) N-amyl acetate	11.45	43	5365	1.710	ug/l #	84
78) n-propylbenzene	11.68	91	2161	Below Cal		92
85) sec-Butylbenzene	12.38	105	1814	Below Cal	#	73
86) p-Isopropyltoluene	12.52	119	2248	Below Cal		92
89) n-Butylbenzene	12.91	91	2466	Below Cal		74

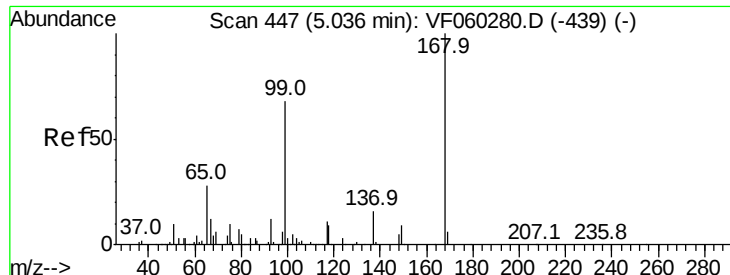
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

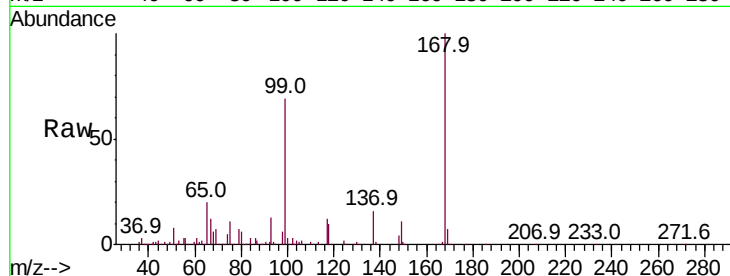
BACKFILL-12TH-AVE

Tot Ion:168 Resp: 204310

Ion Ratio Lower Upper

168 100

99 69.1 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

60000

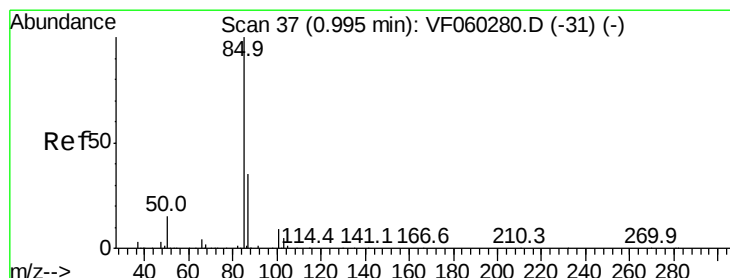
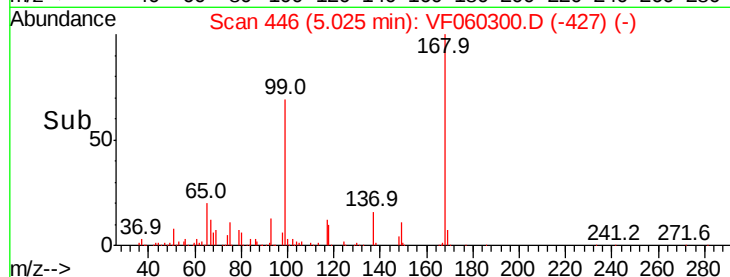
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. -0.00 min

Lab File: VF060300.D

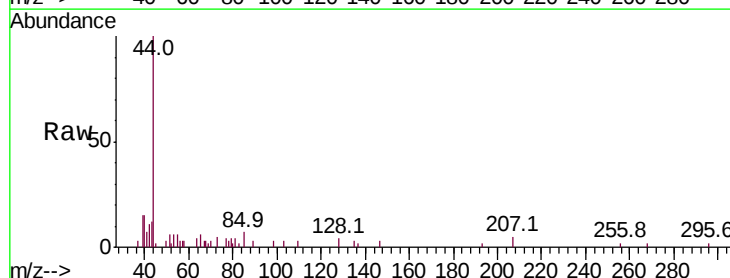
Acq: 20 Sep 2018 13:45

Tgt Ion: 85 Resp: 716

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

0.99

400

300

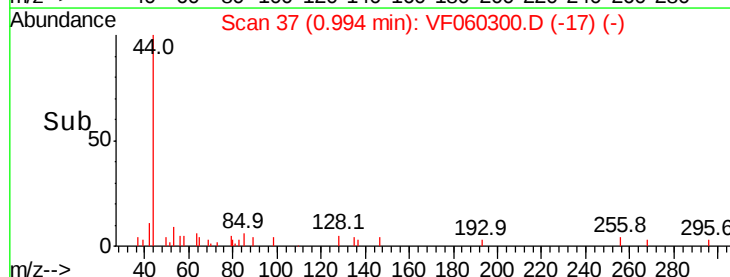
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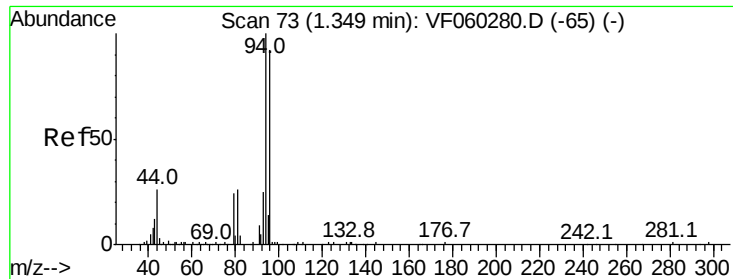
100

0

0.95 1.00 1.05

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 71

Delta R.T. -0.02 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

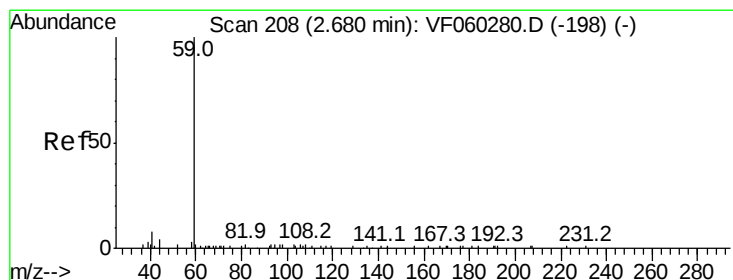
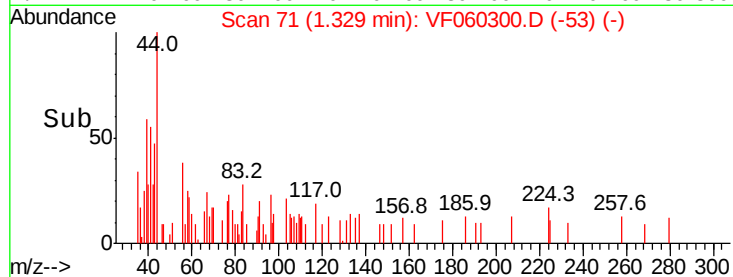
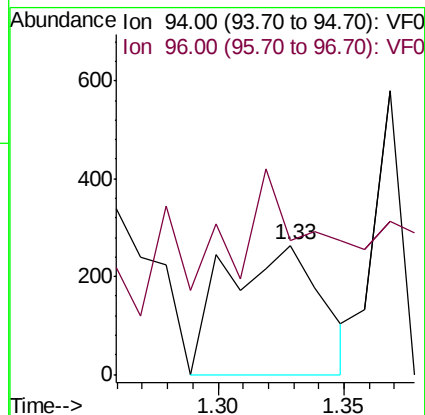
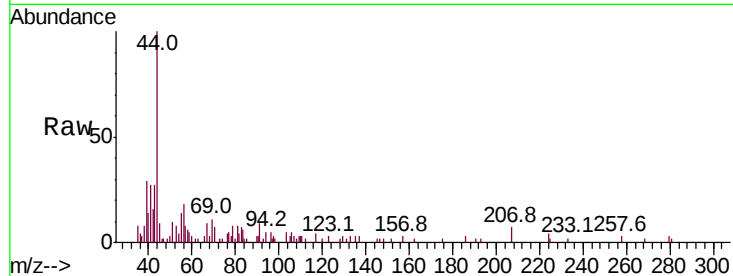
BACKFILL-12TH-AVE

Tot Ion: 94 Resp: 695

Ion Ratio Lower Upper

94 100

96 103.8 73.9 110.9



#11

Tert butyl alcohol

Concen: 68.937 ug/l

RT: 2.66 min Scan# 206

Delta R.T. -0.02 min

Lab File: VF060300.D

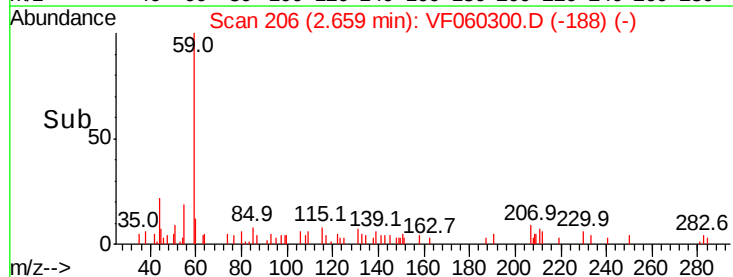
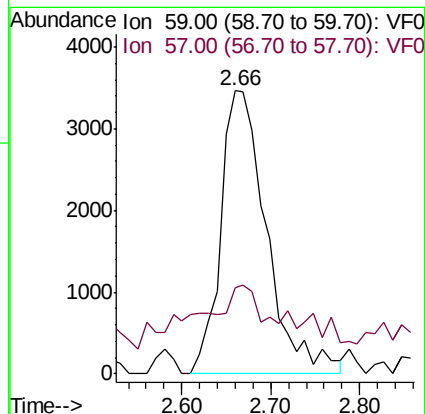
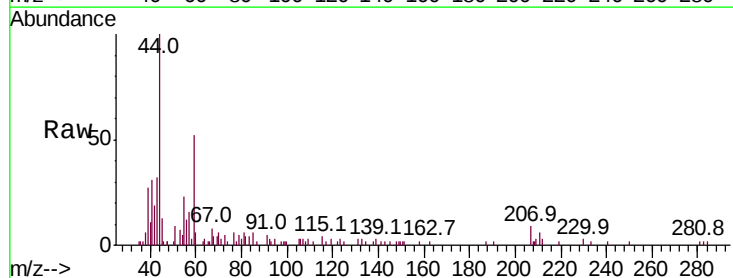
Acq: 20 Sep 2018 13:45

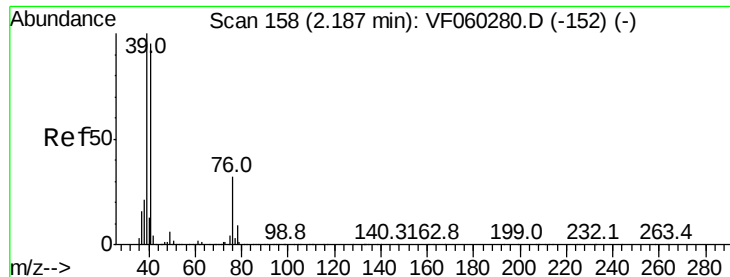
Tgt Ion: 59 Resp: 12443

Ion Ratio Lower Upper

59 100

57 30.3 12.4 18.6#





#14

Allvl chloride

Concen: 9.494 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.10 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

BACKFILL-12TH-AVE

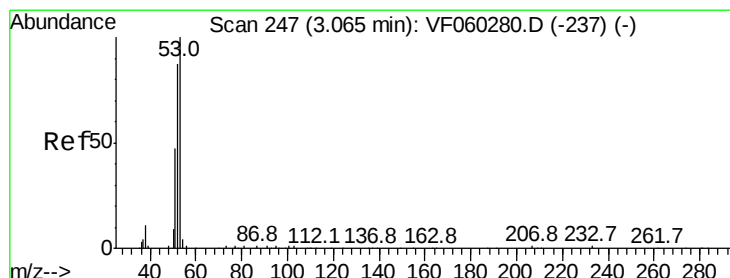
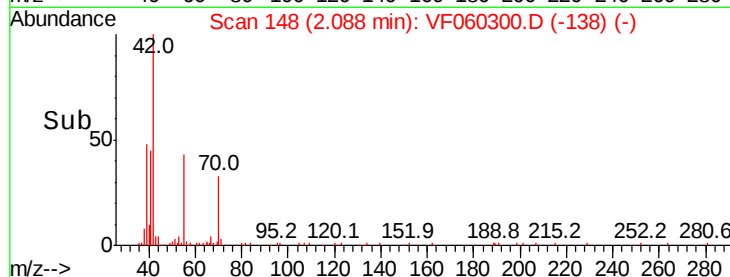
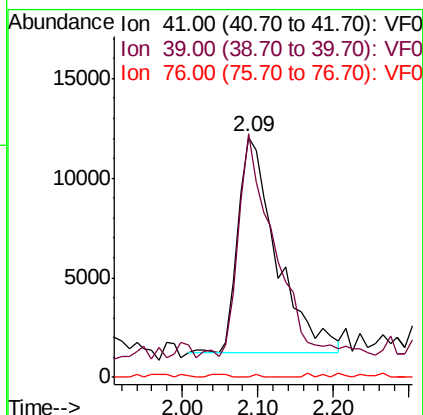
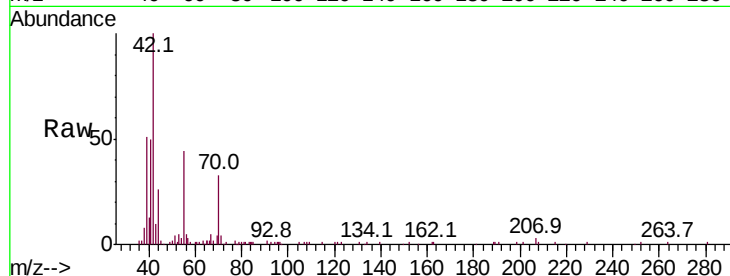
Tot Ion: 41 Resp: 38521

Ion Ratio Lower Upper

41 100

39 101.4 84.8 127.2

76 0.0 27.4 41.2#



#15

Acrylonitrile

Concen: 3.487 ug/l

RT: 3.04 min Scan# 245

Delta R.T. -0.02 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

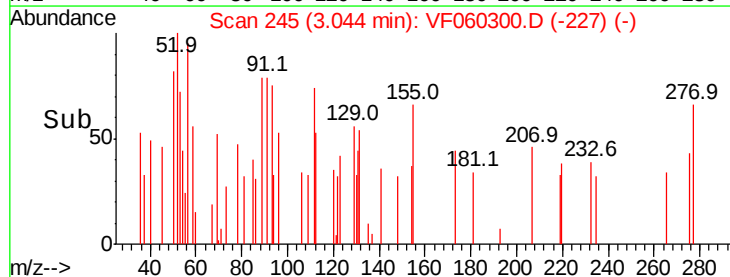
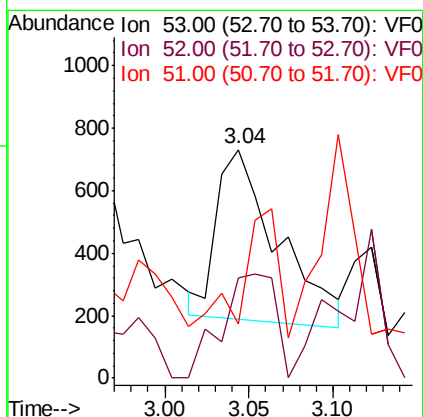
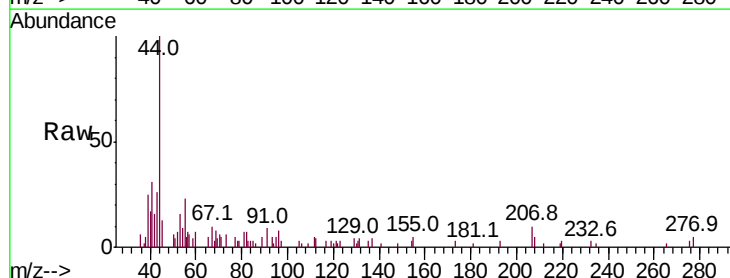
Tgt Ion: 53 Resp: 1355

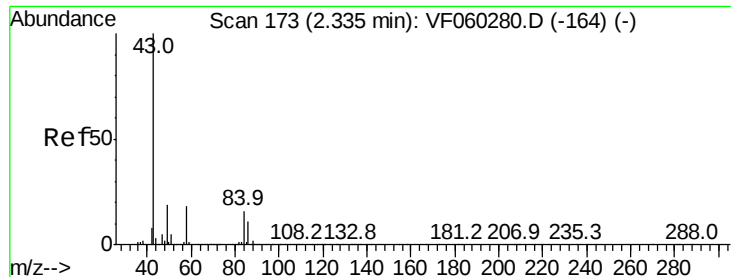
Ion Ratio Lower Upper

53 100

52 44.0 69.5 104.3#

51 23.6 38.1 57.1#

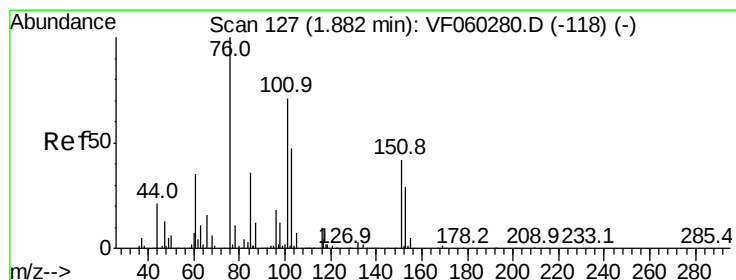
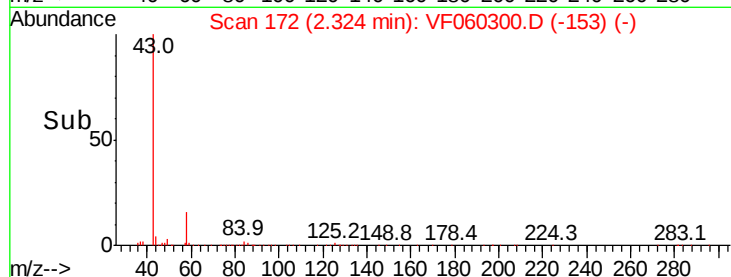
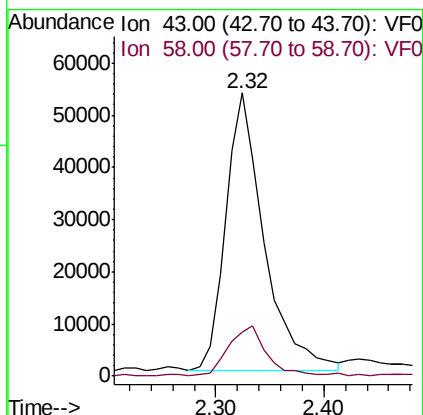
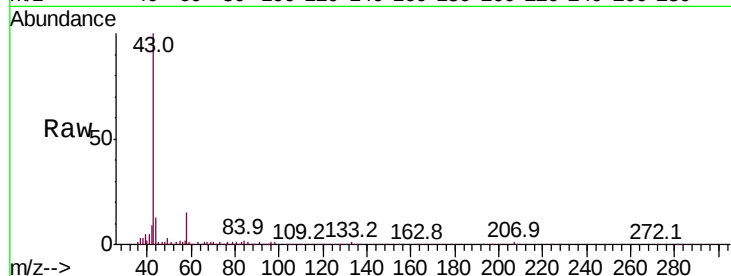




#16
Acetone
Concen: 168.708 ug/l
RT: 2.32 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

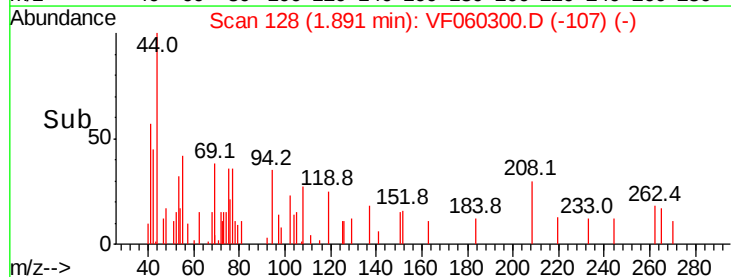
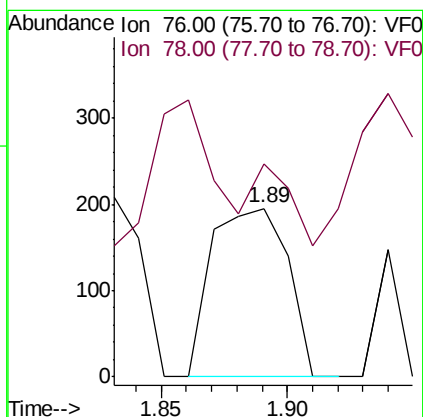
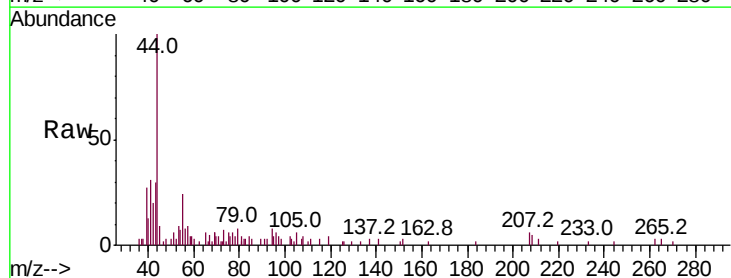
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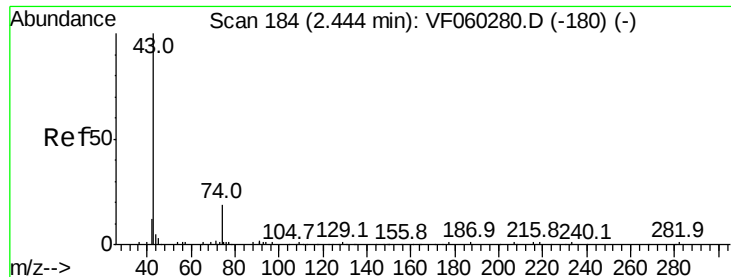
Tot Ion: 43 Resp: 130710
Ion Ratio Lower Upper
43 100
58 15.4 14.5 21.7



#17
Carbon Disulfide
Concen: Below Cal
RT: 1.89 min Scan# 128
Delta R.T. 0.01 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

Tgt Ion: 76 Resp: 409
Ion Ratio Lower Upper
76 100
78 126.7 9.4 14.0#

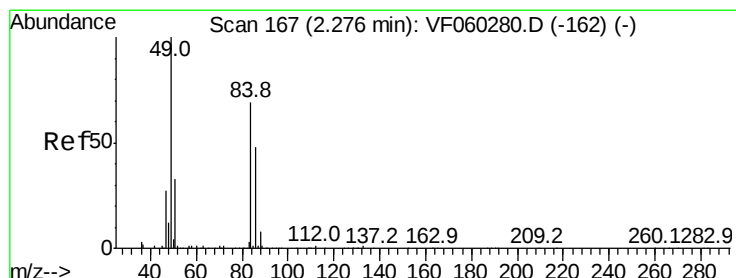
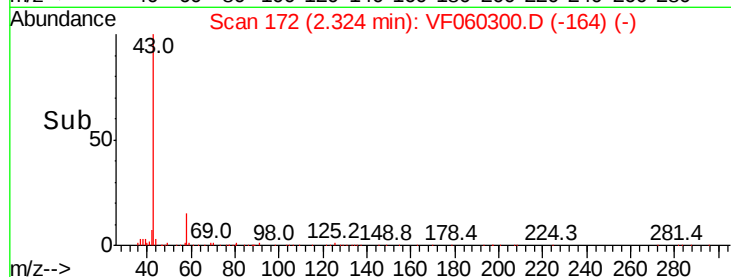
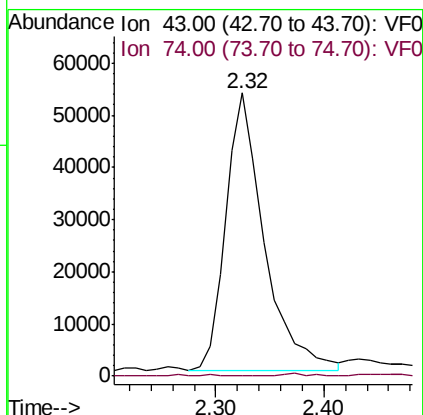
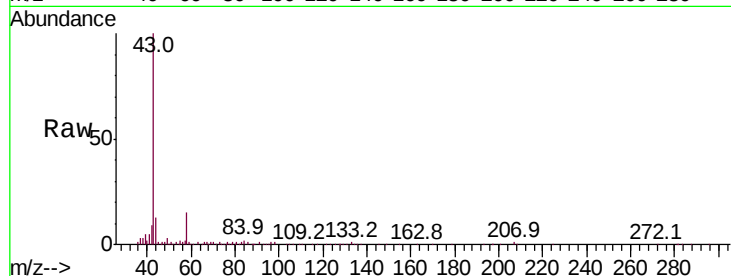




#18
Methyl Acetate
Concen: 101.271 ug/l
RT: 2.32 min Scan# 172
Delta R.T. -0.12 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

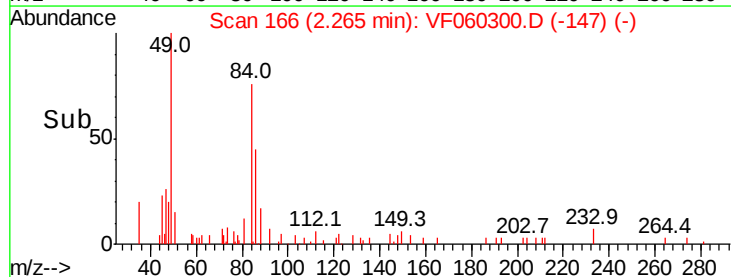
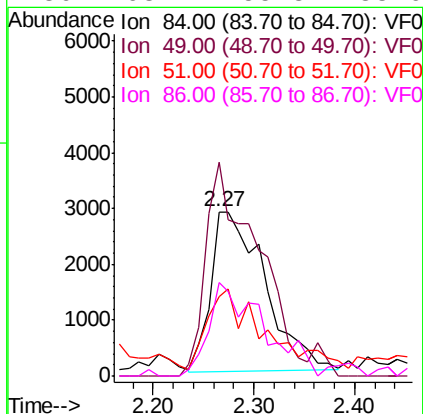
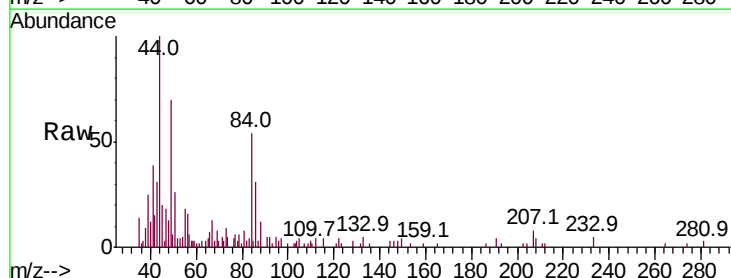
Instrument :
MSVOA_F
ClientSampleId :
BACKFILL-12TH-AVE

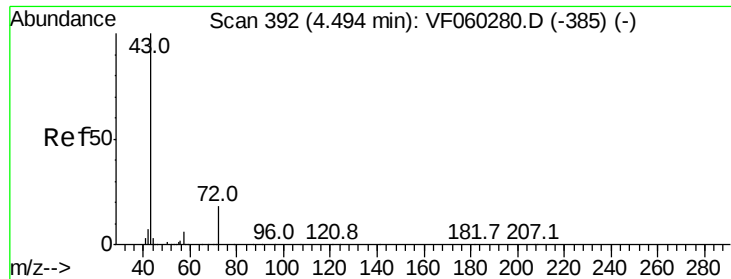
Tot Ion: 43 Resp: 130710
Ion Ratio Lower Upper
43 100
74 0.2 12.7 19.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

Tgt Ion: 84 Resp: 10787
Ion Ratio Lower Upper
84 100
49 130.3 118.3 177.5
51 48.7 38.7 58.1
86 63.4 55.8 83.6





#25

2-Butanone

Concen: 16.131 ug/l

RT: 4.48 min Scan# 391

Delta R.T. -0.01 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

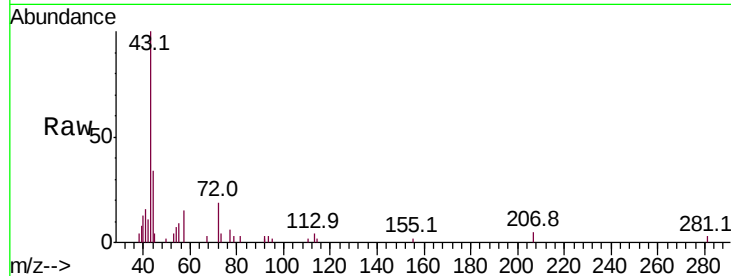
BACKFILL-12TH-AVE

Tot Ion: 43 Resp: 16822

Ion Ratio Lower Upper

43 100

72 19.2 16.2 24.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.48

6000

5000

4000

3000

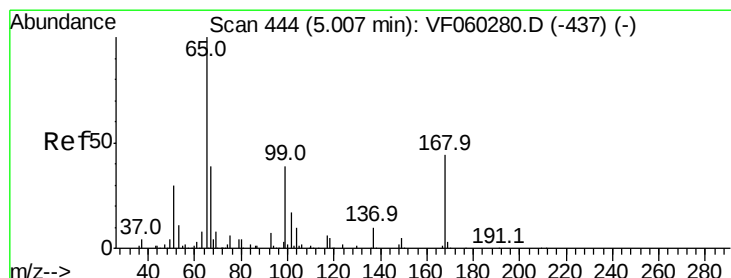
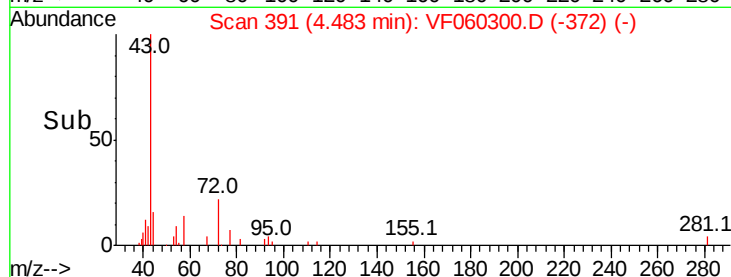
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1000

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Time-->

4.40 4.50 4.60



#33

1,2-Dichloroethane-d4

Concen: 40.908 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060300.D

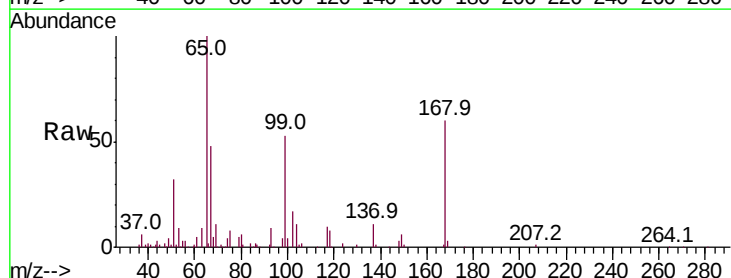
Acq: 20 Sep 2018 13:45

Tgt Ion: 65 Resp: 112541

Ion Ratio Lower Upper

65 100

67 48.3 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.00

40000

30000

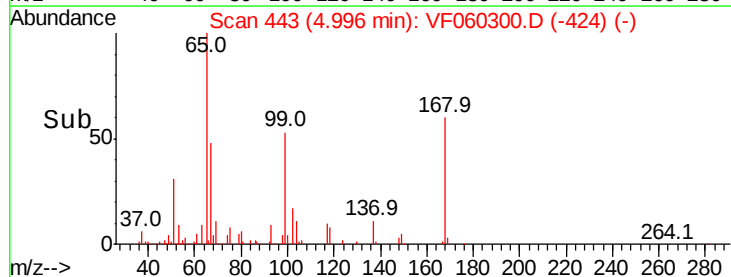
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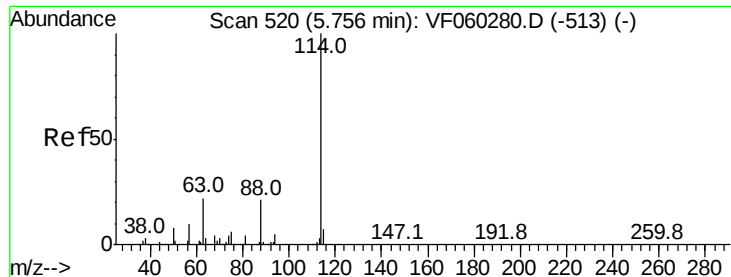
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Time-->

4.80 4.90 5.00 5.10 5.20

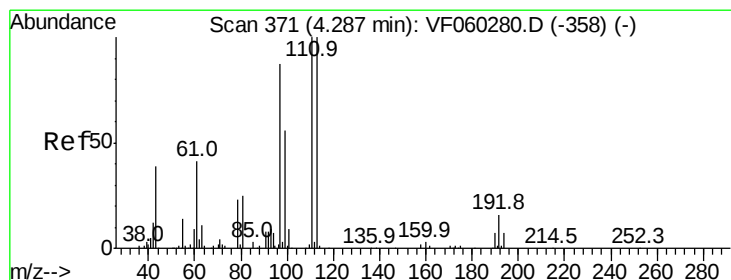
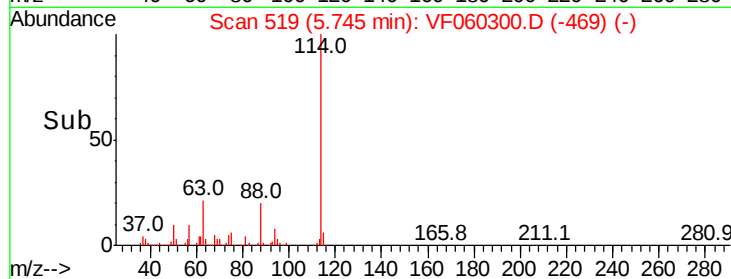
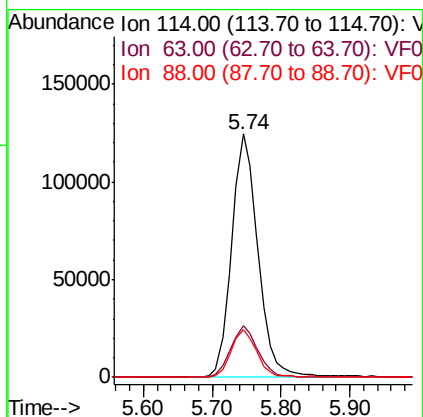
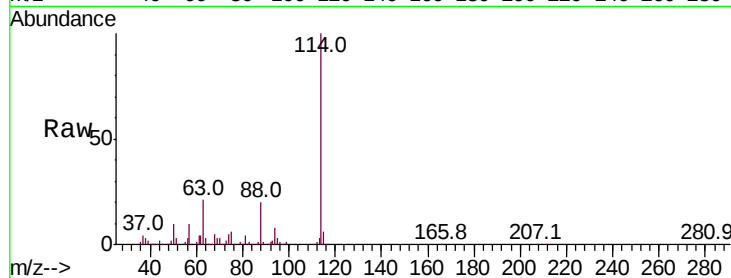




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.74 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: VF060300.D
 Acq: 20 Sep 2018 13:45

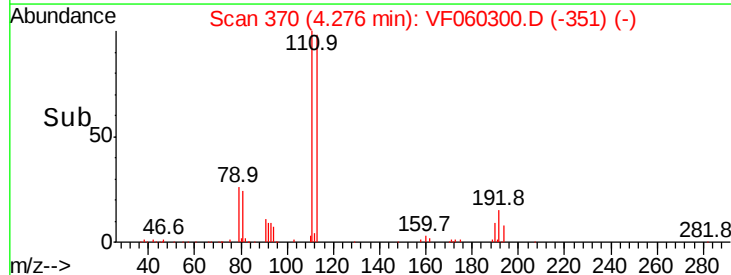
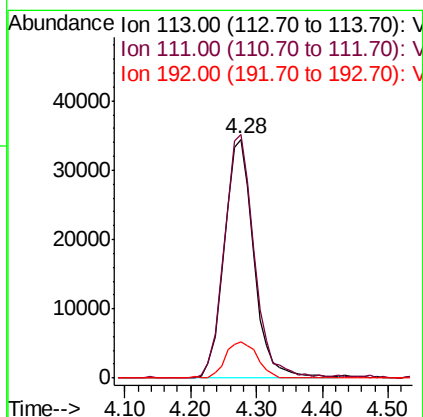
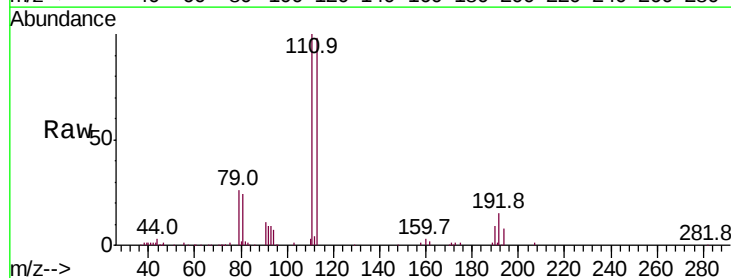
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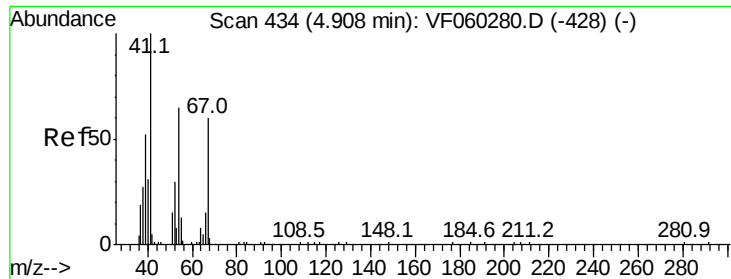
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	43.8
88	19.7	0.0	41.2



#35
 Dibromofluoromethane
 Concen: 36.843 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.01 min
 Lab File: VF060300.D
 Acq: 20 Sep 2018 13:45

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	79.6	119.4
192	15.2	13.0	19.6

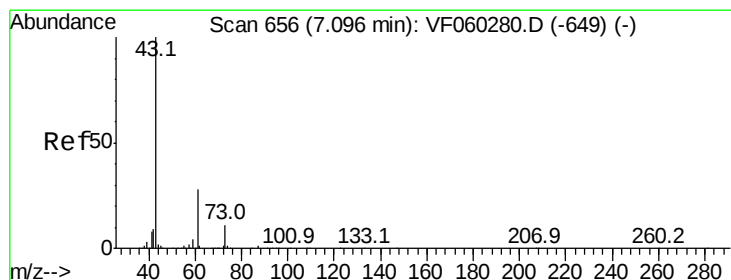
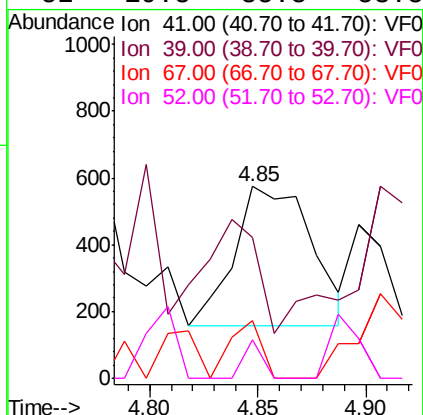
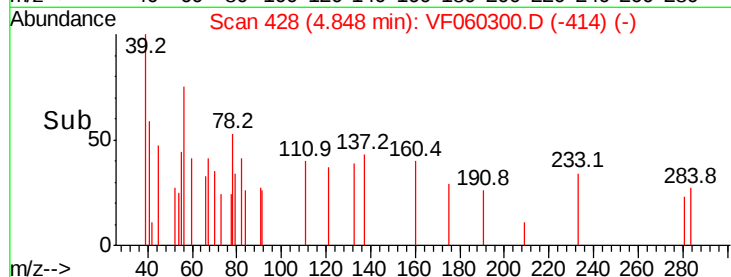
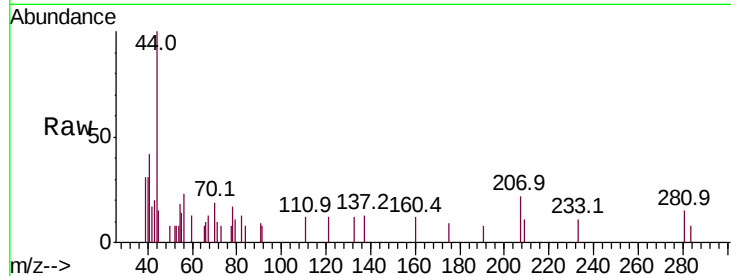




#41
Methacrylonitrile
Concen: 1.092 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.06 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

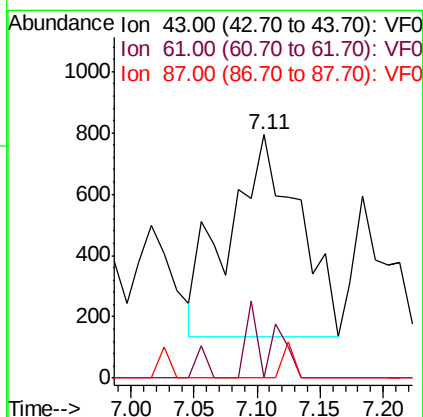
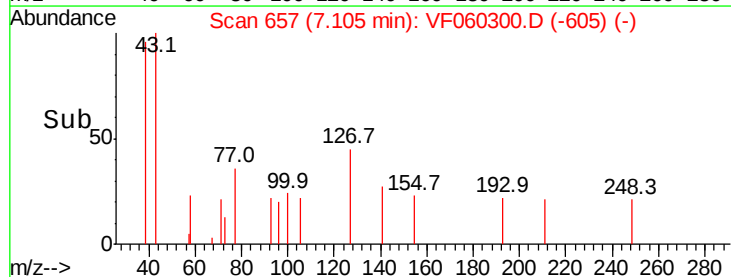
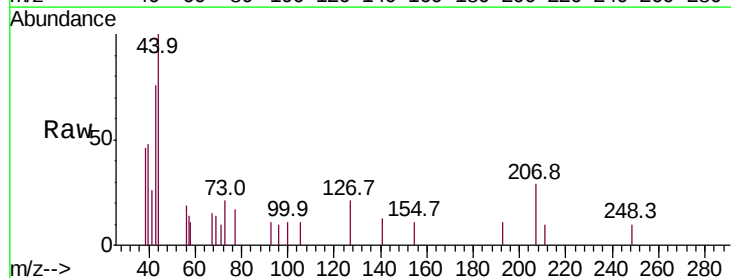
Instrument :
MSVOA_F
ClientSampleId :
BACKFILL-12TH-AVE

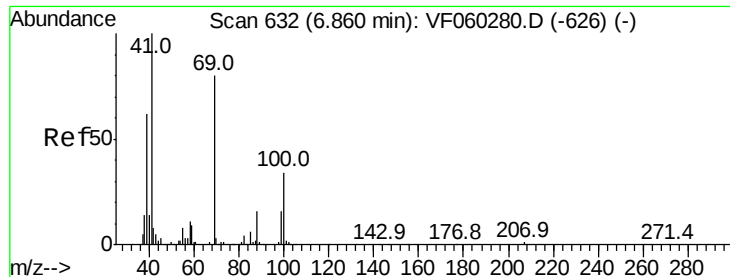
Tot Ion: 41 Resp: 1030
Ion Ratio Lower Upper
41 100
39 73.4 49.1 73.7
67 29.7 48.2 72.4#
52 19.8 35.8 53.8#



#43
Isopropyl Acetate
Concen: 1.216 ug/l
RT: 7.11 min Scan# 657
Delta R.T. 0.01 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

Tgt Ion: 43 Resp: 2545
Ion Ratio Lower Upper
43 100
61 0.0 22.4 33.6#
87 0.0 0.6 0.8#





#49

1,4-Dioxane

Concen: 4.875 ug/l

RT: 7.04 min Scan# 650

Delta R.T. 0.18 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

BACKFILL-12TH-AVE

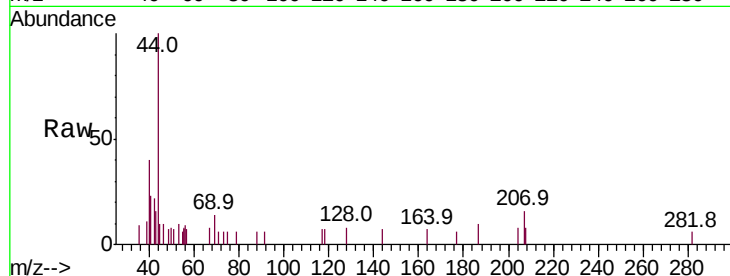
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 263.9 40.2 60.4#

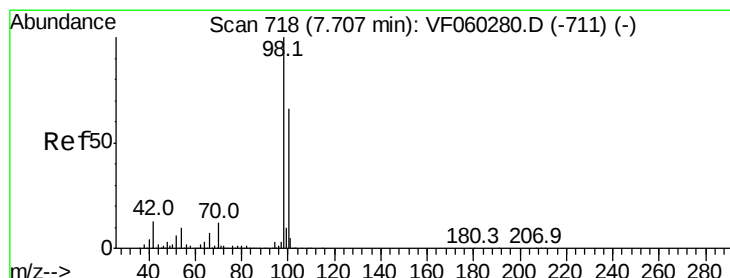
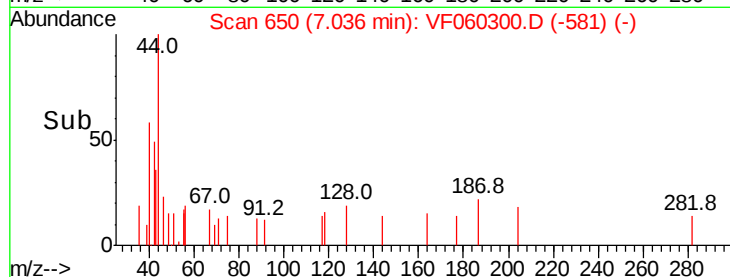
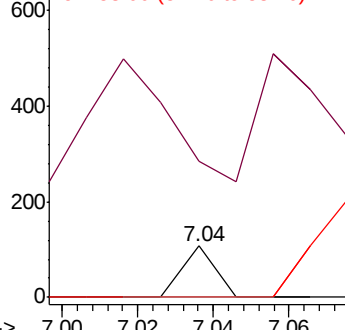
58 0.0 56.7 85.1#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 37.034 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060300.D

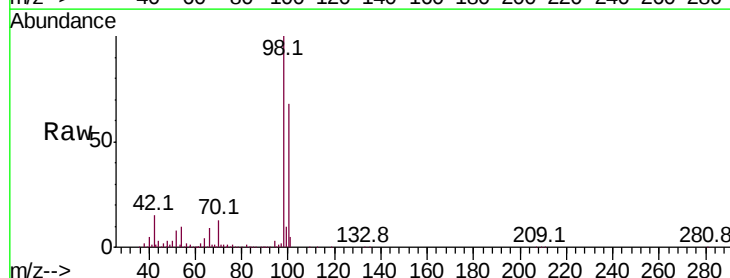
Acq: 20 Sep 2018 13:45

Tgt Ion: 98 Resp: 283248

Ion Ratio Lower Upper

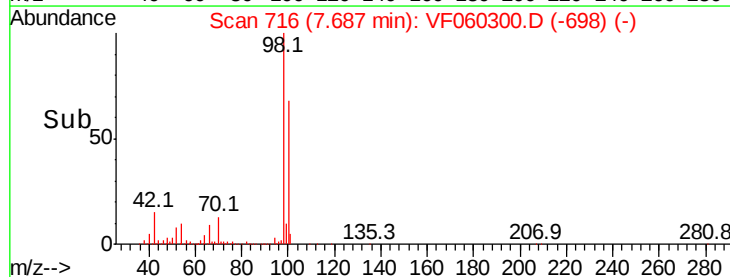
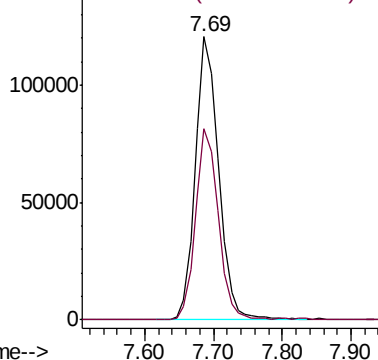
98 100

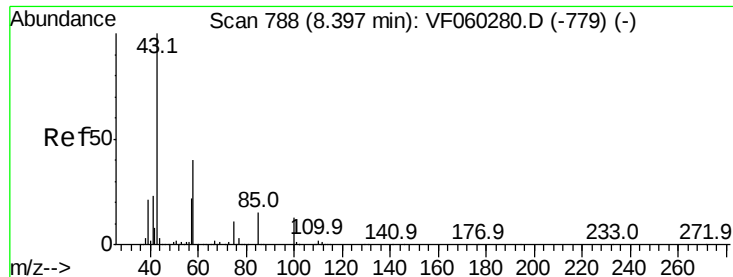
100 67.5 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 4.084 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

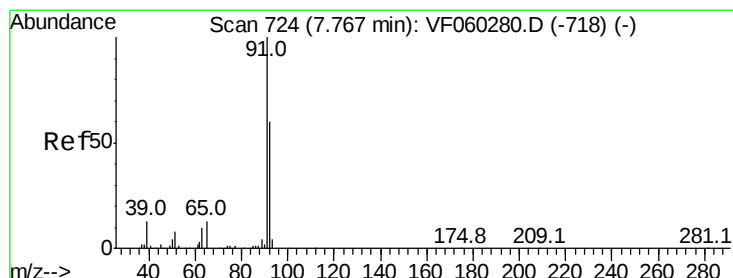
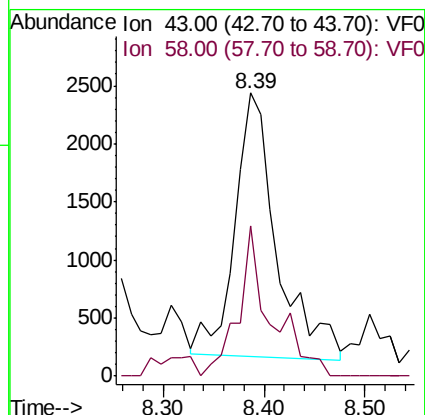
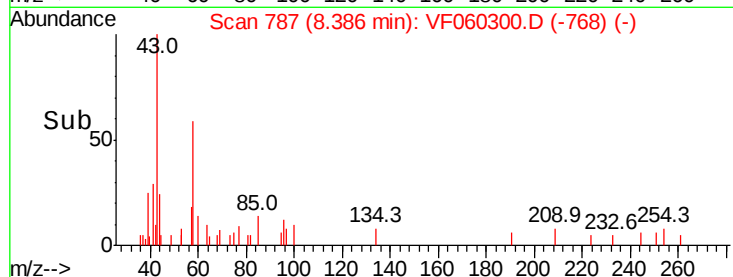
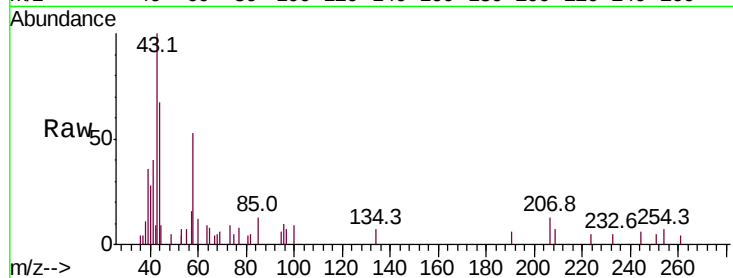
BACKFILL-12TH-AVE

Tot Ion: 43 Resp: 6589

Ion Ratio Lower Upper

43 100

58 53.0 31.8 47.8#



#58

2-Chloroethyl Vinyl ether

Concen: 2.015 ug/l

RT: 7.74 min Scan# 721

Delta R.T. -0.03 min

Lab File: VF060300.D

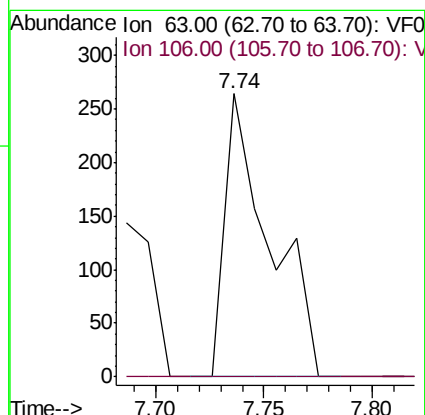
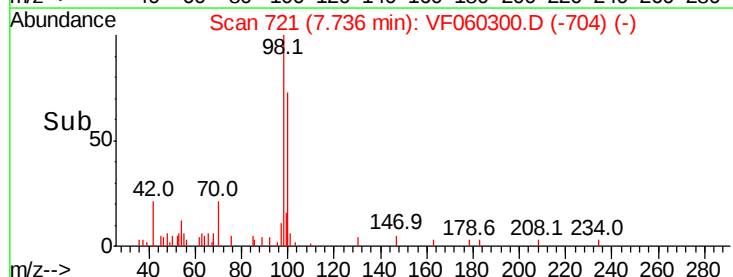
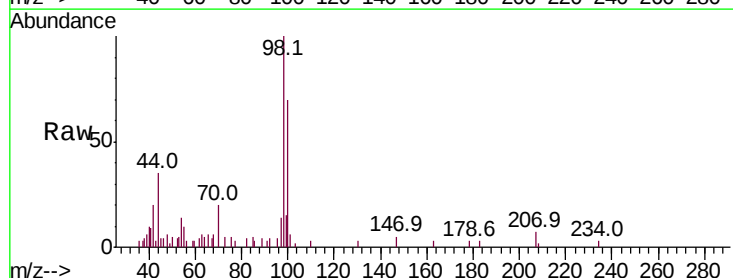
Acq: 20 Sep 2018 13:45

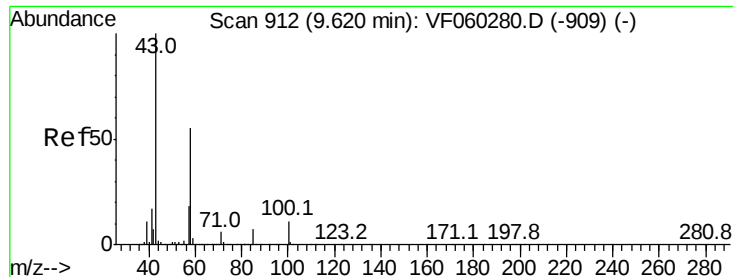
Tgt Ion: 63 Resp: 385

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

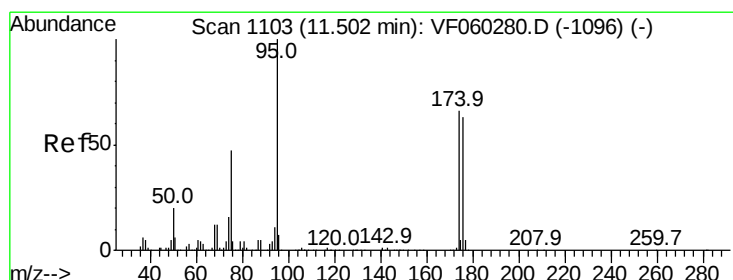
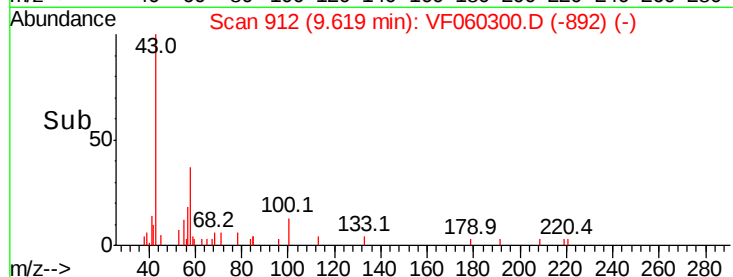
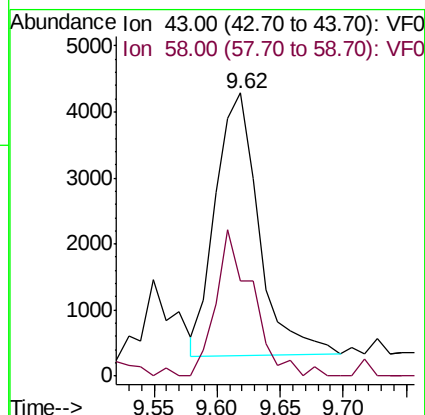
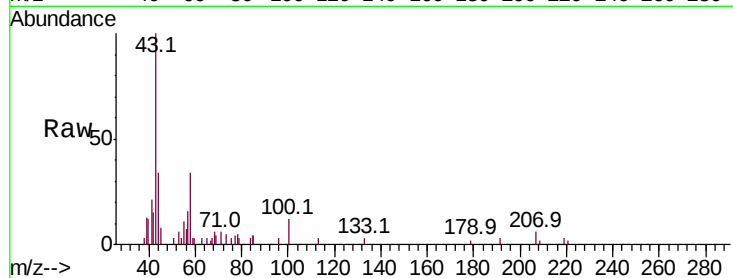




#59
2-Hexanone
Concen: 8.277 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

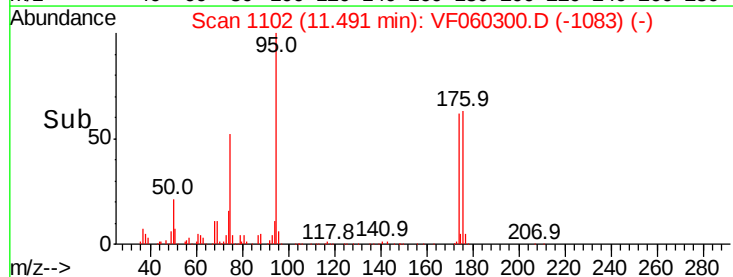
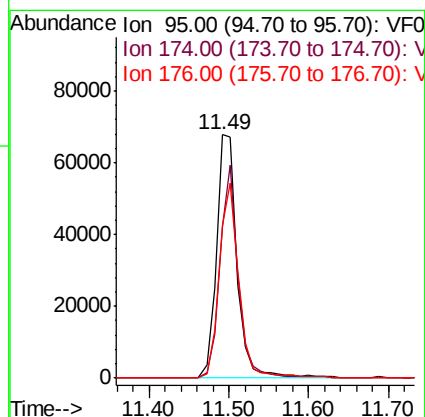
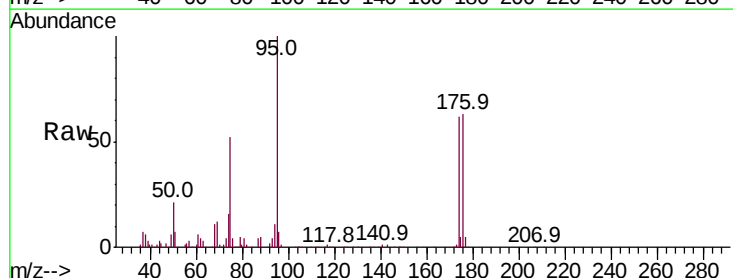
Instrument :
MSVOA_F
ClientSampleId :
BACKFILL-12TH-AVE

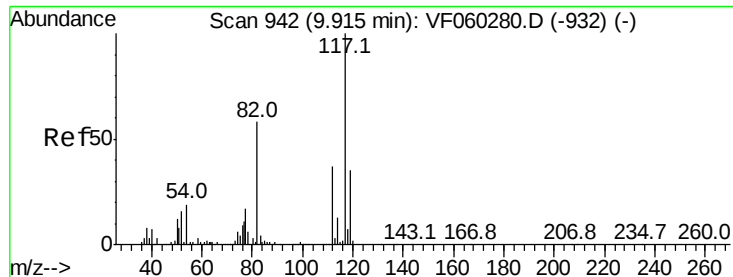
Tot Ion: 43 Resp: 9509
Ion Ratio Lower Upper
43 100
58 33.8 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 37.616 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

Tgt Ion: 95 Resp: 124364
Ion Ratio Lower Upper
95 100
174 62.0 0.0 131.2
176 62.9 0.0 126.6

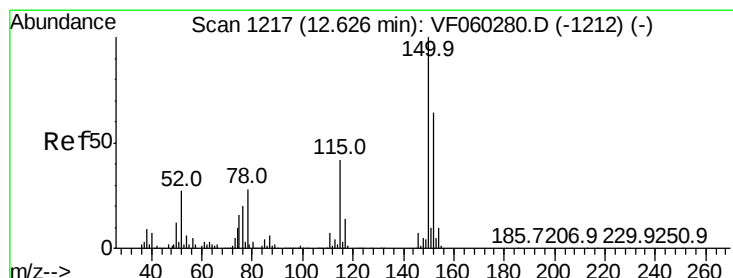
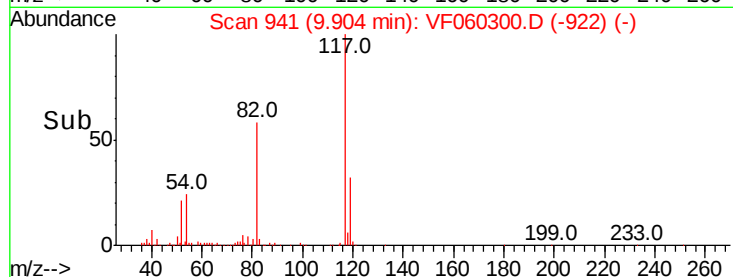
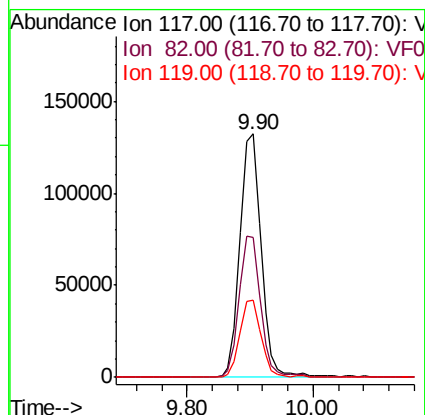
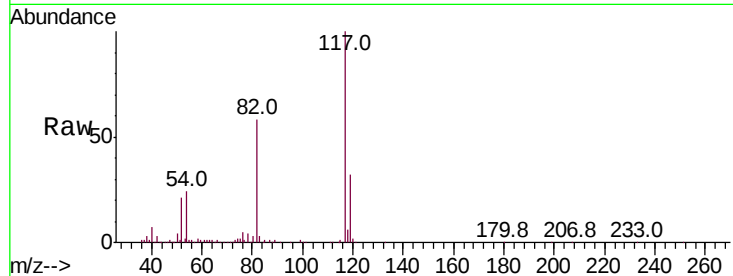




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

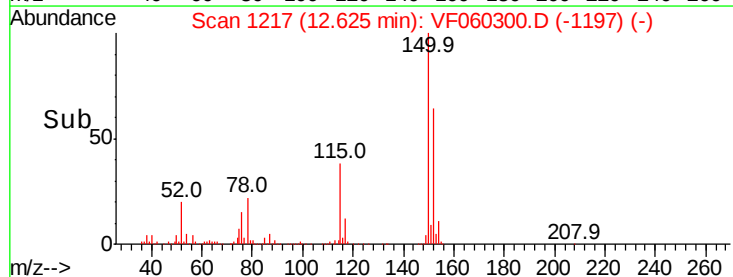
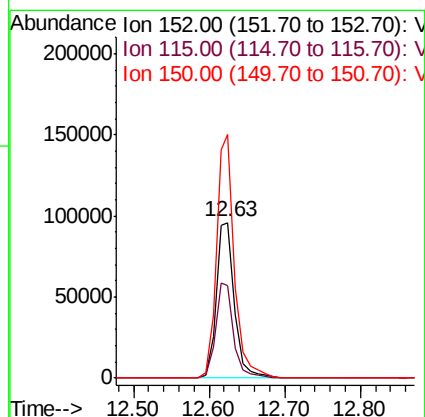
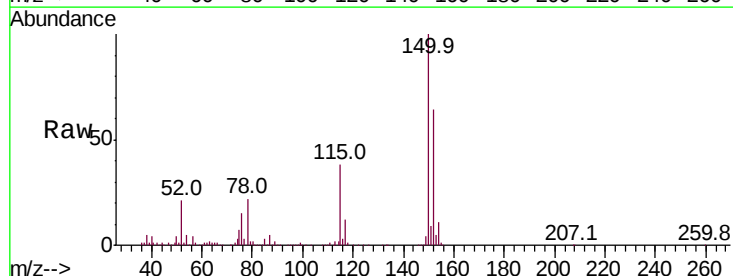
Instrument :
MSVOA_F
ClientSampleId :
BACKFILL-12TH-AVE

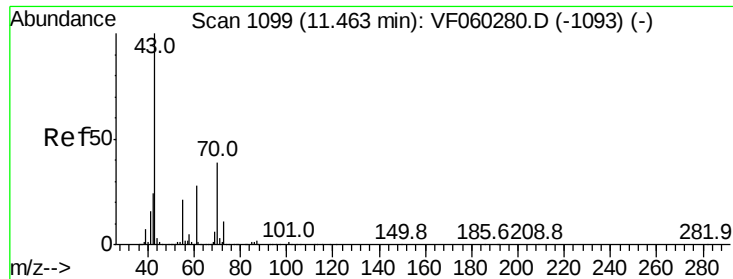
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.2	69.2
119	31.6	27.8	41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060300.D
Acq: 20 Sep 2018 13:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.9	32.6	97.8
150	156.6	0.0	314.2





#74

N-amvl acetate

Concen: 1.710 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

BACKFILL-12TH-AVE

Tot Ion: 43 Resp: 5365

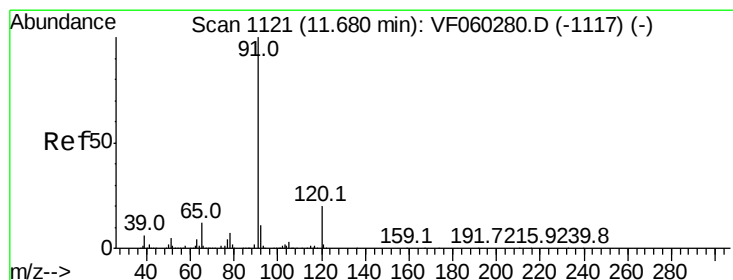
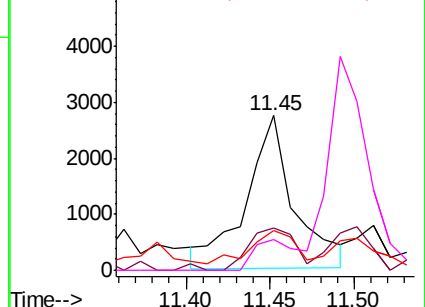
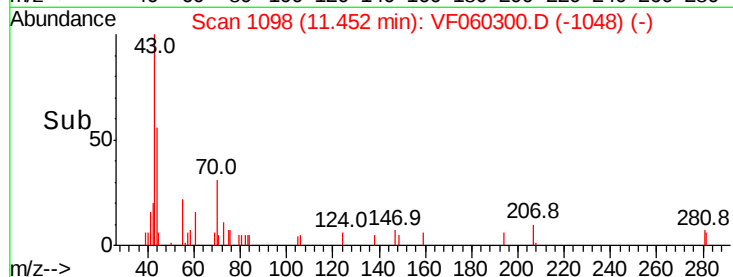
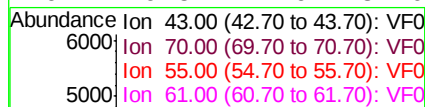
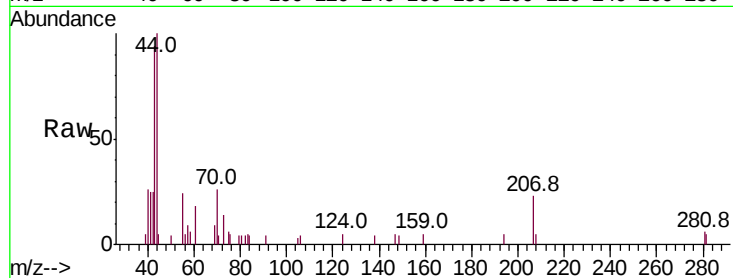
Ion Ratio Lower Upper

43 100

70 27.7 31.4 47.2#

55 25.9 16.8 25.2#

61 19.5 22.6 34.0#



#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF060300.D

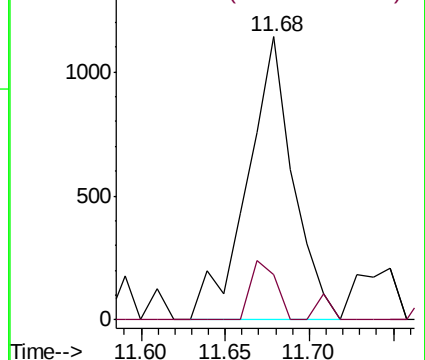
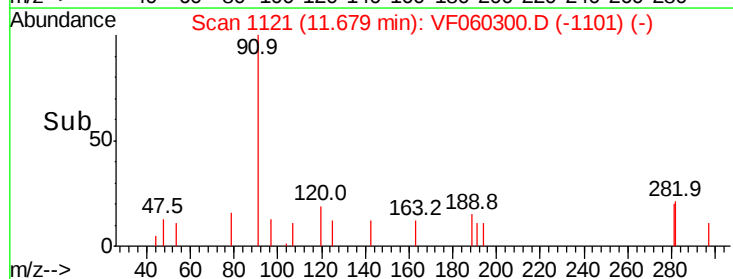
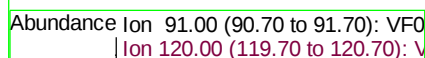
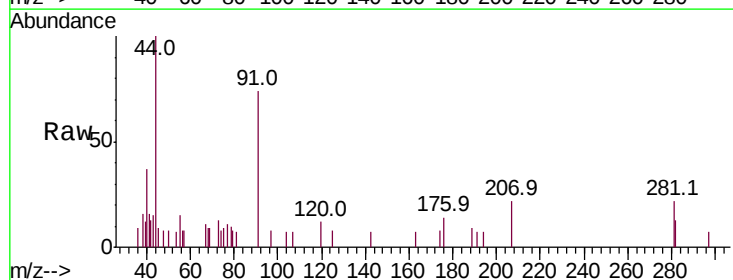
Acq: 20 Sep 2018 13:45

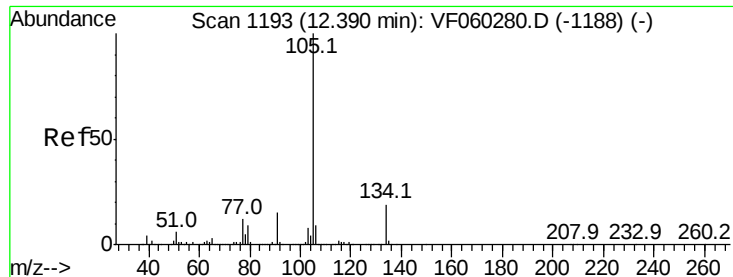
Tgt Ion: 91 Resp: 2161

Ion Ratio Lower Upper

91 100

120 16.0 10.0 29.8





#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

Instrument :

MSVOA_F

ClientSampleId :

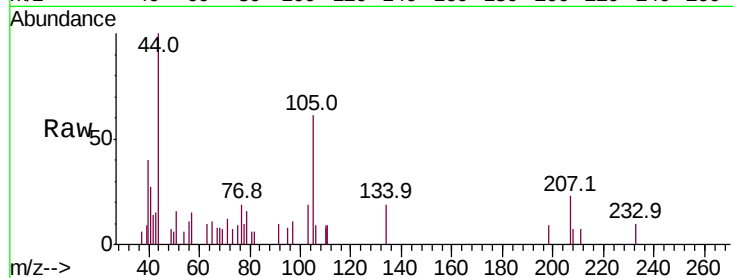
BACKFILL-12TH-AVE

Tot Ion:105 Resp: 1814

Ion Ratio Lower Upper

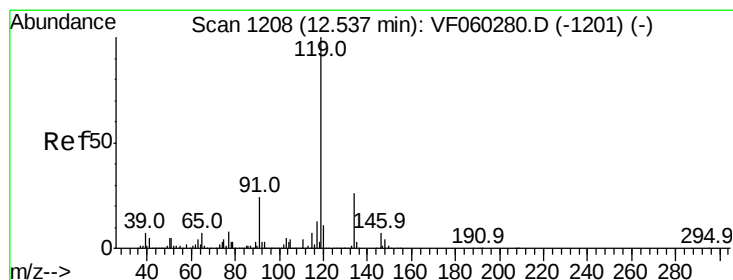
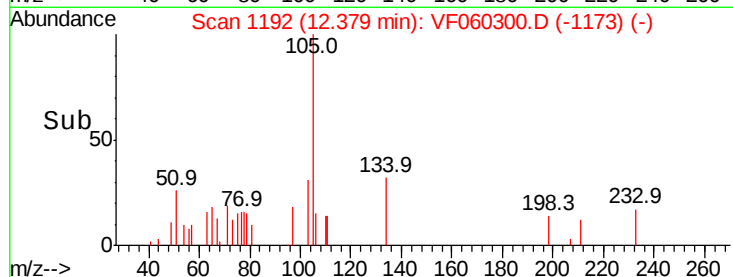
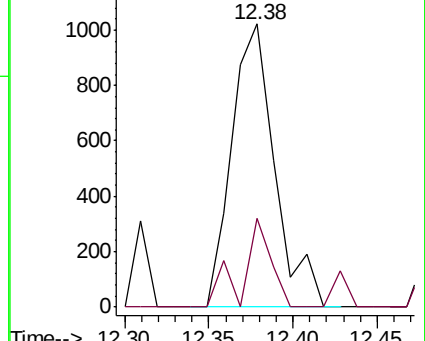
105 100

134 31.5 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 12.52 min Scan# 1206

Delta R.T. -0.02 min

Lab File: VF060300.D

Acq: 20 Sep 2018 13:45

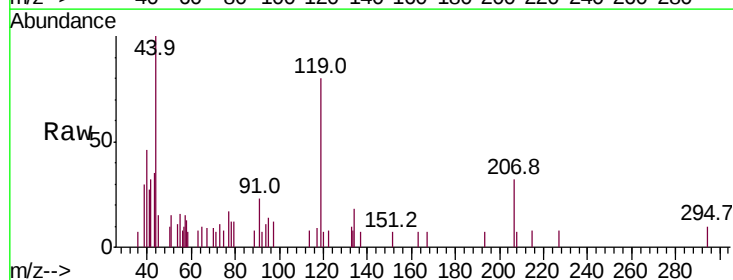
Tgt Ion:119 Resp: 2248

Ion Ratio Lower Upper

119 100

134 22.5 12.9 38.7

91 28.2 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): VF0

