

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059328.D
 Acq On : 26 Jun 2018 20:28
 Operator : VA/AP
 Sample : J3629-06
 Misc : 6.28g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C10-01

Quant Time: Jun 27 02:22:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	58893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	66237	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	42306	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	10538	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.00	65	8854	11.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	23.28%	
35) Dibromofluoromethane	4.28	113	12190	25.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	50.38%	
50) Toluene-d8	7.69	98	43065	35.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.88%	
62) 4-Bromofluorobenzene	11.50	95	11071	16.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	32.76%	

Target Compounds

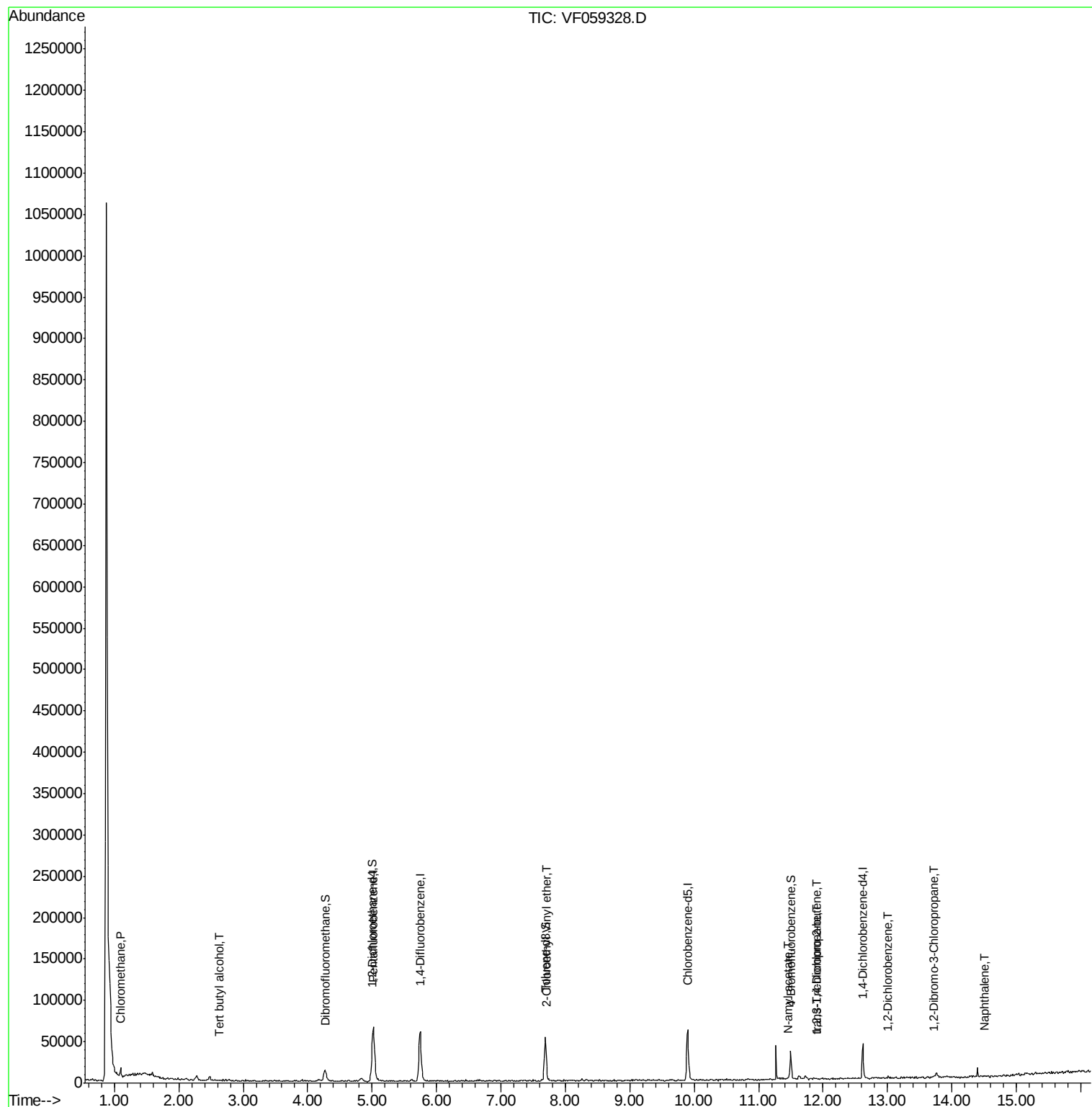
					Qvalue	
3) Chloromethane	1.09	50	639	1.768 ug/l #	41	
5) Bromomethane	1.33	94	454	Below Cal #	4	
11) Tert butyl alcohol	2.62	59	99	1.954 ug/l #	66	
13) Acrolein	2.09	56	86	Below Cal	98	
16) Acetone	2.32	43	243	Below Cal #	65	
20) Methylene Chloride	2.28	84	2358	Below Cal #	68	
25) 2-Butanone	4.51	43	217	Below Cal #	59	
29) Tetrahydrofuran	4.22	42	257	Below Cal #	34	
37) Ethyl Acetate	4.29	43	352	Below Cal #	26	
49) 1,4-Dioxane	6.88	88	63	Below Cal #	20	
58) 2-Chloroethyl Vinyl ether	7.71	63	90	2.599 ug/l	100	
59) 2-Hexanone	9.61	43	670	Below Cal #	30	
74) N-amyl acetate	11.46	43	932	4.183 ug/l #	74	
76) 1,2,3-Trichloropropane	11.90	75	122	1.043 ug/l #	1	
81) trans-1,4-Dichloro-2-buten	11.90	75	122	1.753 ug/l #	57	
87) 1,3-Dichlorobenzene	12.54	146	85	Below Cal #	14	
91) 1,2-Dichlorobenzene	13.01	146	605	1.957 ug/l #	60	
92) 1,2-Dibromo-3-Chloropropan	13.72	75	93	2.706 ug/l #	1	
95) Naphthalene	14.51	128	633	1.323 ug/l #	69	

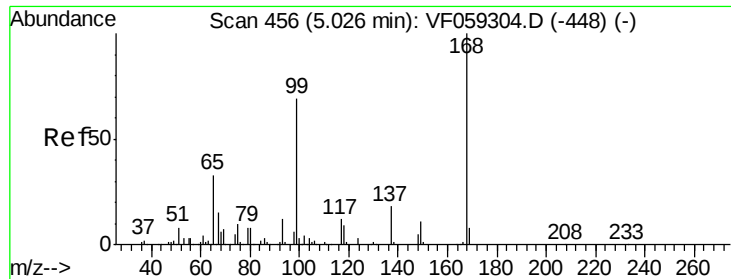
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

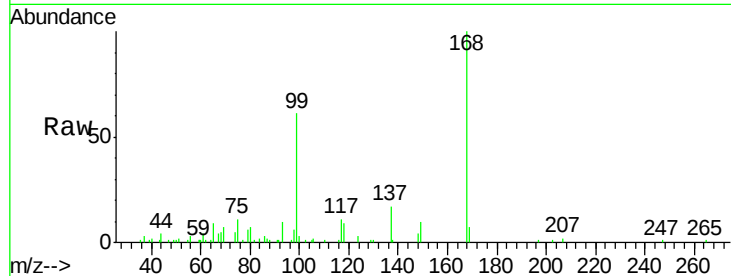
A0C10-01

Tot Ion:168 Resp: 58893

Ion Ratio Lower Upper

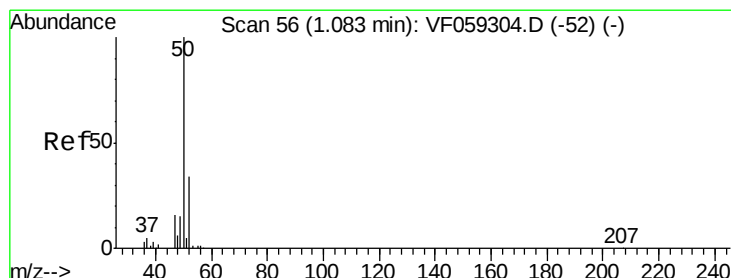
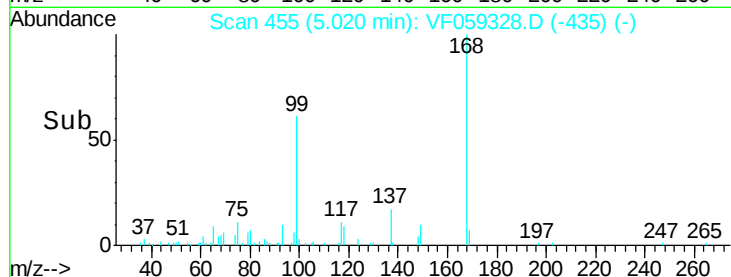
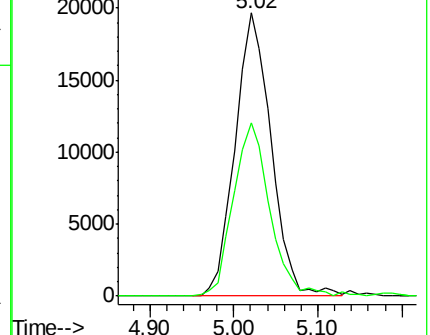
168 100

99 61.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.768 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059328.D

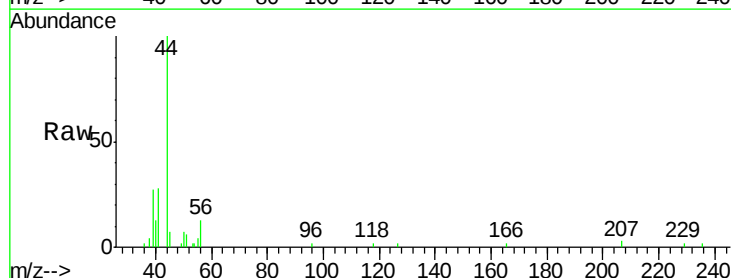
Acq: 26 Jun 2018 20:28

Tgt Ion: 50 Resp: 639

Ion Ratio Lower Upper

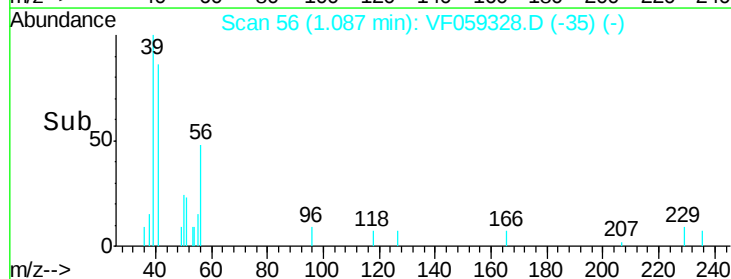
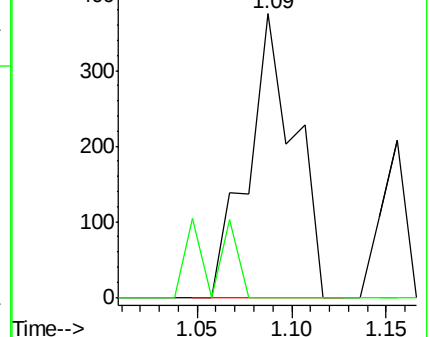
50 100

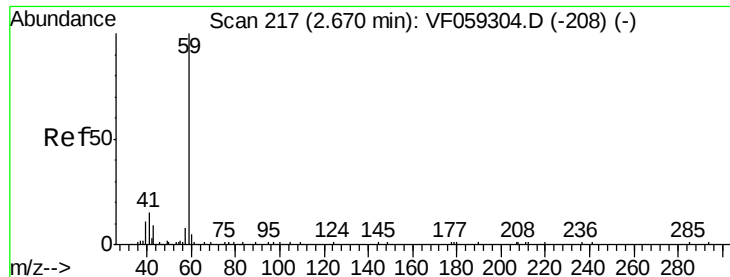
52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



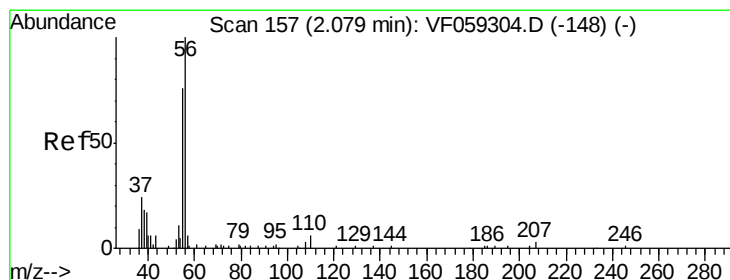
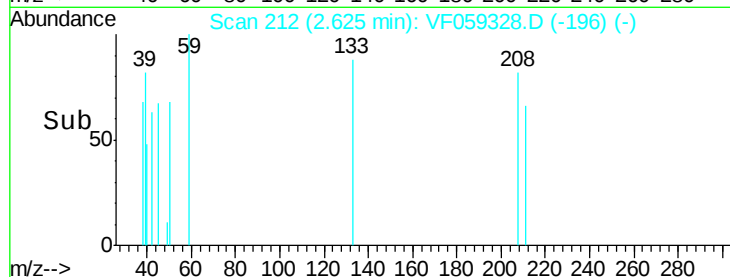
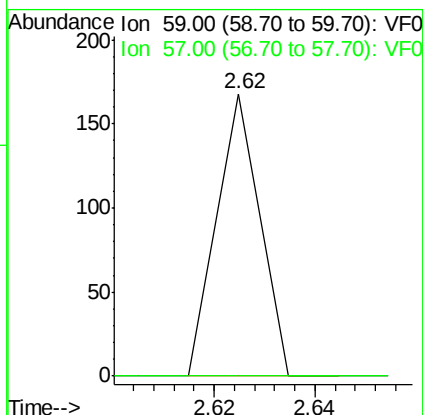
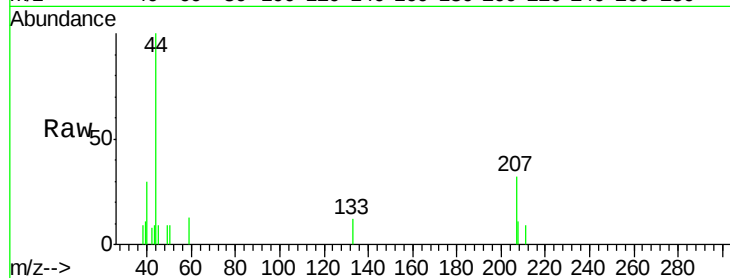


#11

Tert butyl alcohol
 Concen: 1.954 ug/l
 RT: 2.62 min Scan# 212
 Delta R.T. -0.05 min
 Lab File: VF059328.D
 Acq: 26 Jun 2018 20:28

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C10-01

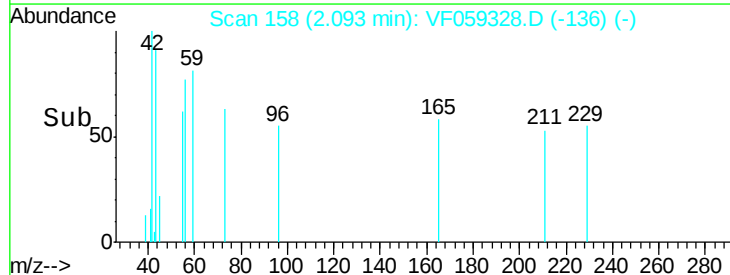
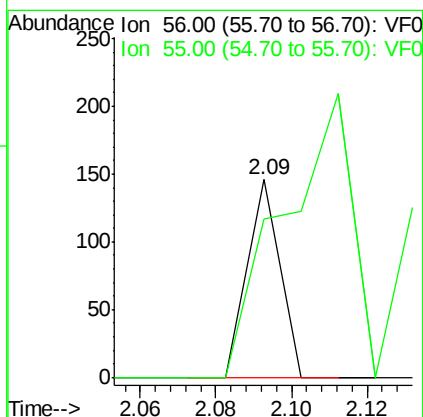
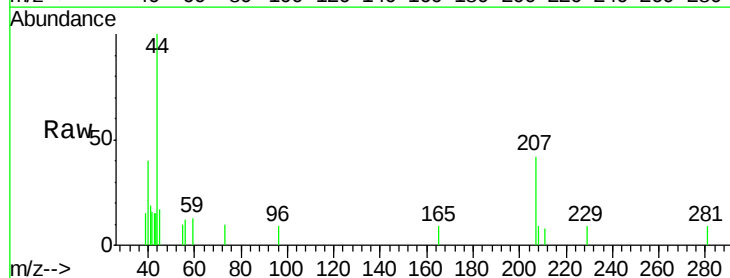
Tot Ion: 59 Resp: 99
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.0 16.4#

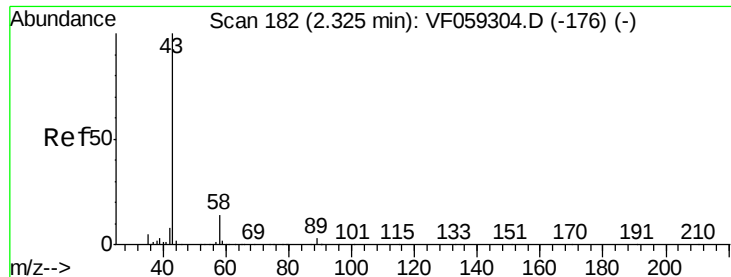


#13

Acrolein
 Concen: Below Cal
 RT: 2.09 min Scan# 158
 Delta R.T. 0.01 min
 Lab File: VF059328.D
 Acq: 26 Jun 2018 20:28

Tgt Ion: 56 Resp: 86
 Ion Ratio Lower Upper
 56 100
 55 80.1 62.4 93.6





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampled :

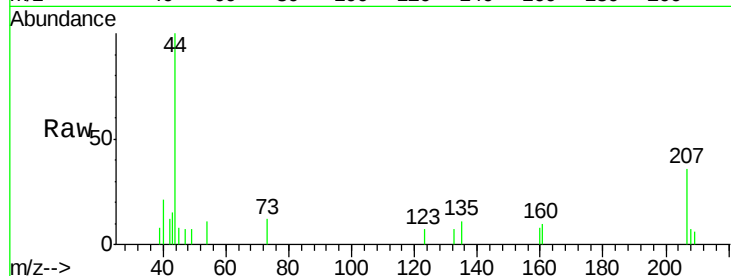
A0C10-01

Tot Ion: 43 Resp: 243

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

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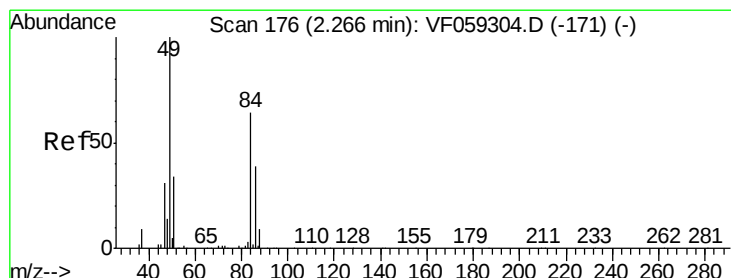
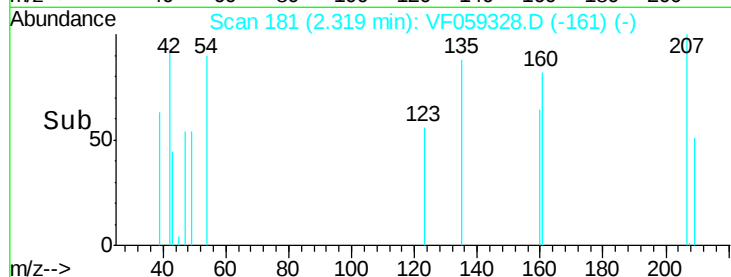
2.32

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2.32



#20

Methylene Chloride

Concen: Below Cal

RT: 2.28 min Scan# 177

Delta R.T. 0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Tgt Ion: 84 Resp: 2358

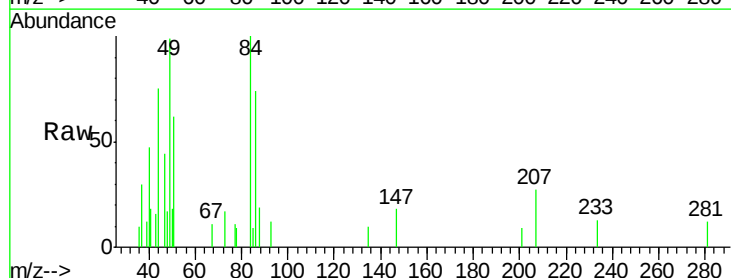
Ion Ratio Lower Upper

84 100

49 99.5 126.5 189.7#

51 62.0 42.9 64.3

86 73.9 48.6 73.0#



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

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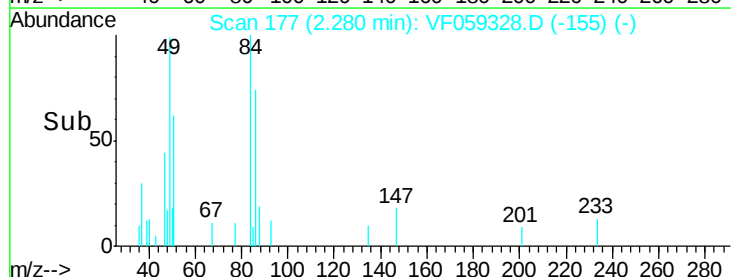
2.28

2.28

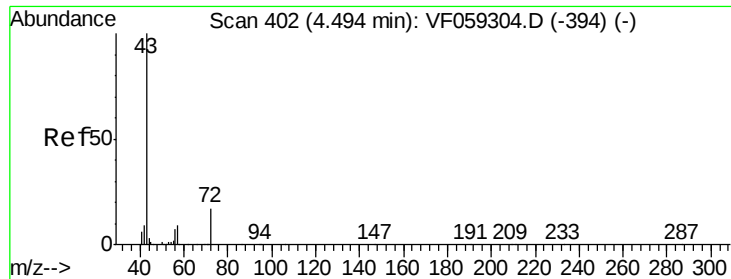
2.28

2.28

2.28



Time-->



#25

2-Butanone

Concen: Below Cal

RT: 4.51 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

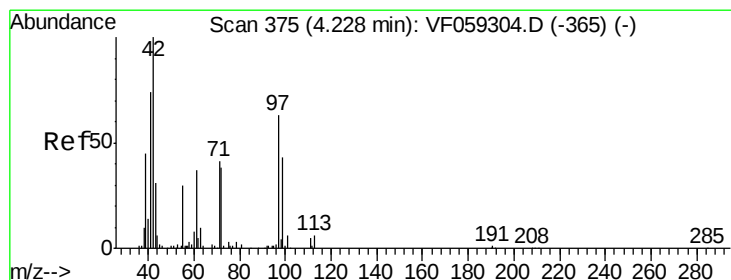
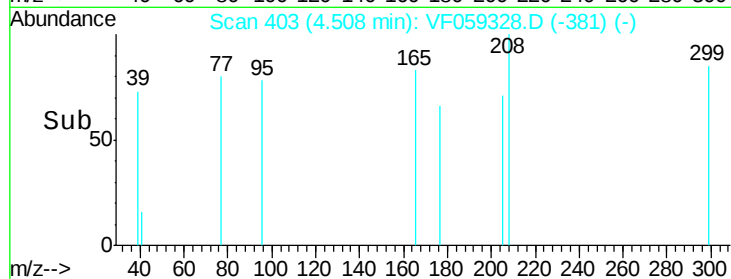
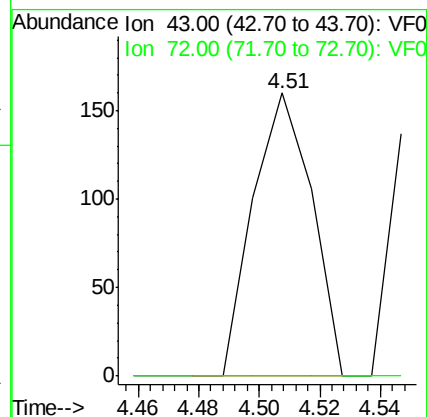
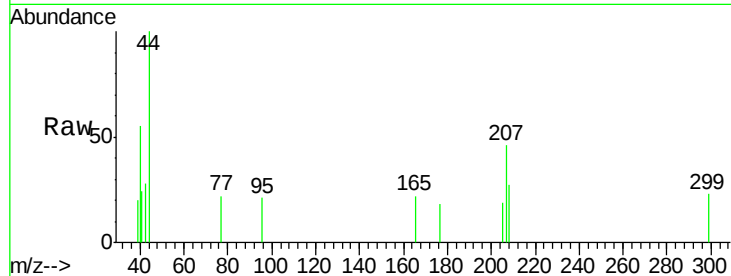
A0C10-01

Tot Ion: 43 Resp: 217

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.22 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

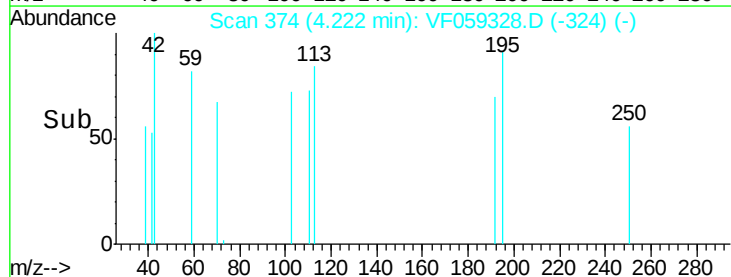
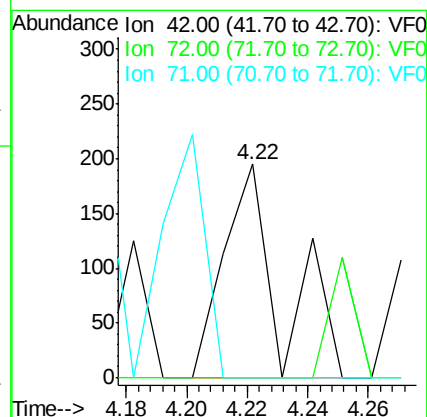
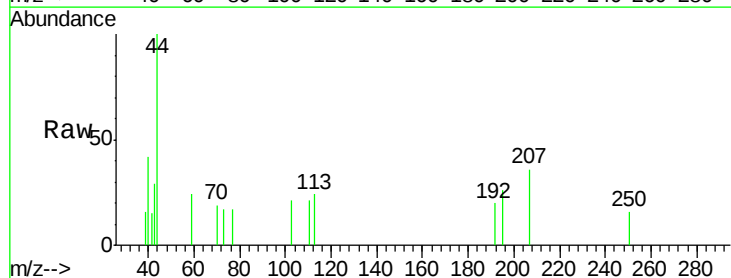
Tgt Ion: 42 Resp: 257

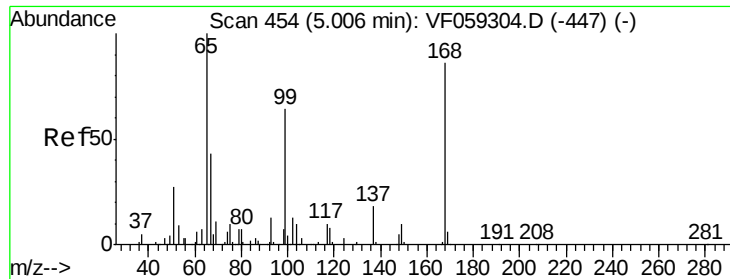
Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

71 83.3 32.5 48.7#





#33

1,2-Dichloroethane-d4

Concen: 11.636 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

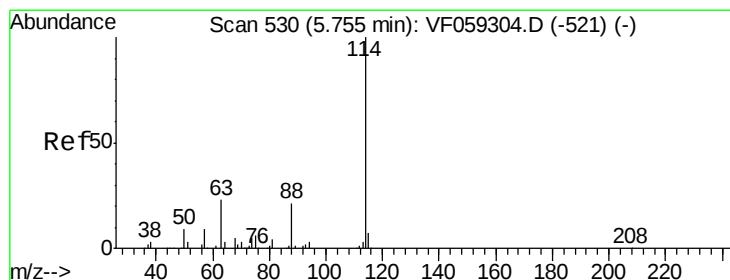
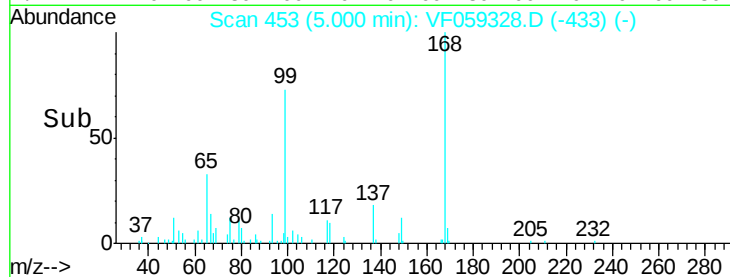
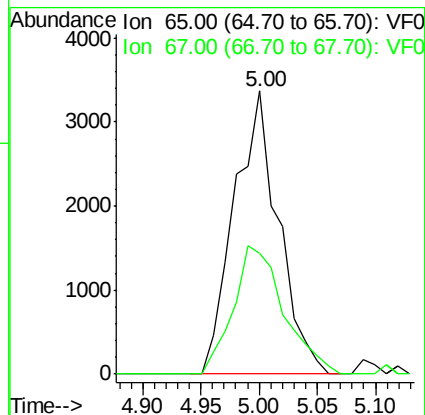
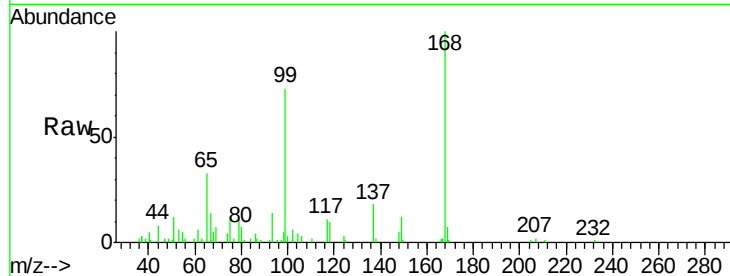
A0C10-01

Tot Ion: 65 Resp: 8854

Ion Ratio Lower Upper

65 100

67 42.9 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

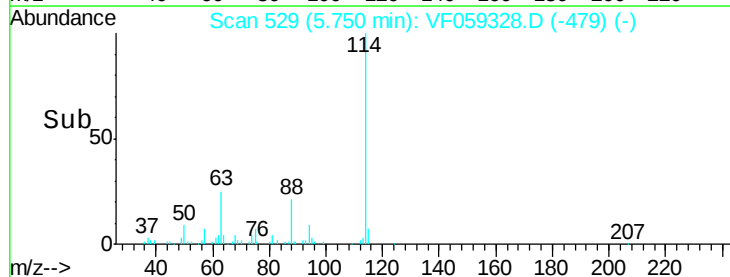
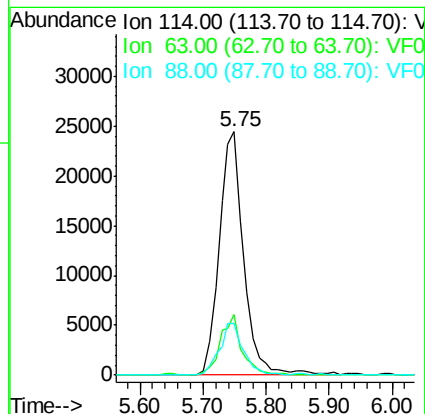
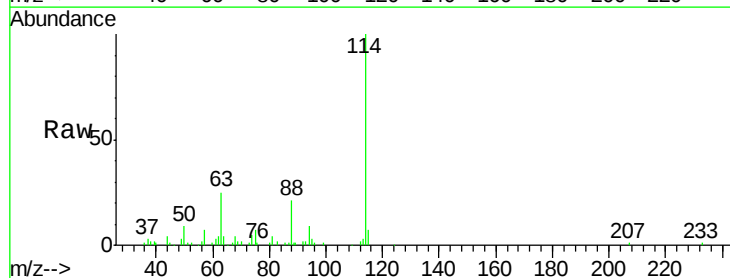
Tgt Ion: 114 Resp: 66237

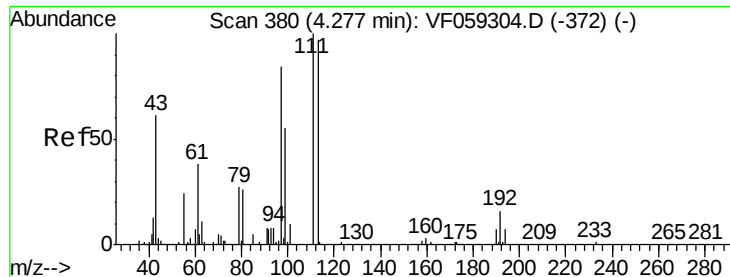
Ion Ratio Lower Upper

114 100

63 24.7 0.0 45.8

88 21.0 0.0 41.2





#35

Dibromofluoromethane

Concen: 25.187 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

A0C10-01

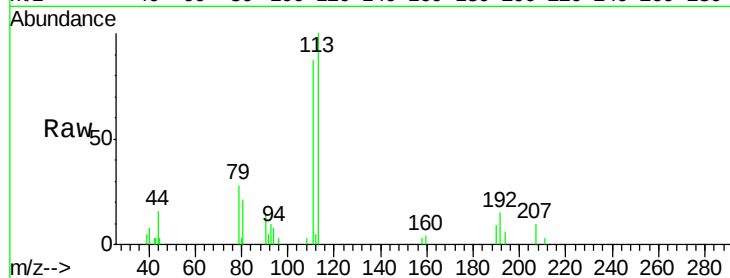
Tot Ion:113 Resp: 12190

Ion Ratio Lower Upper

113 100

111 87.2 82.1 123.1

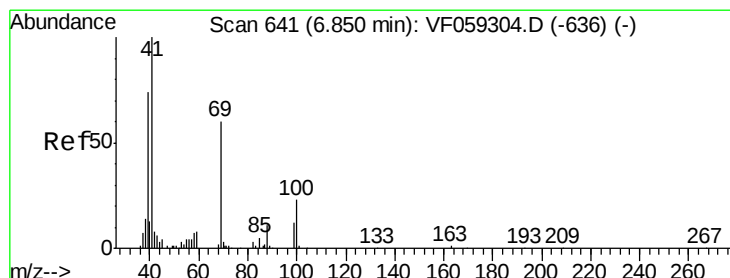
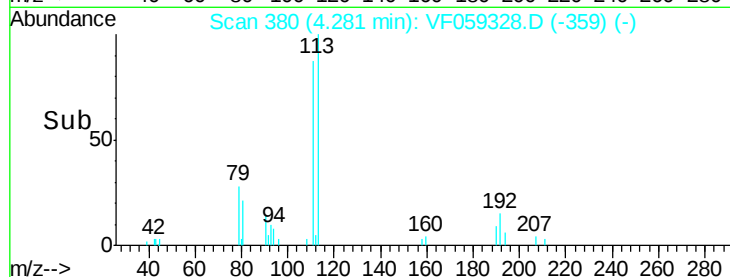
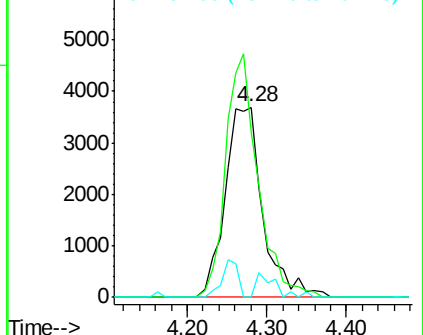
192 0.0 13.0 19.6#



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: Below Cal

RT: 6.88 min Scan# 644

Delta R.T. 0.03 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

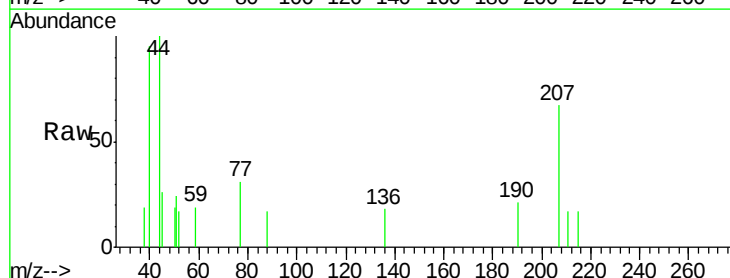
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

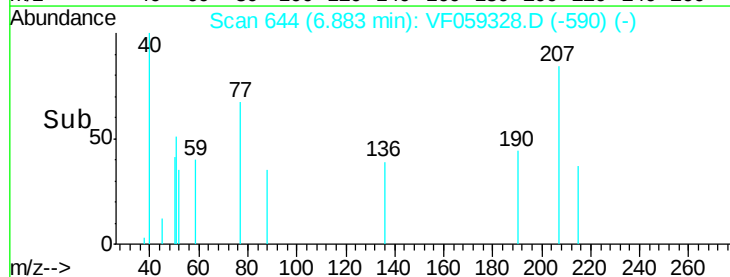
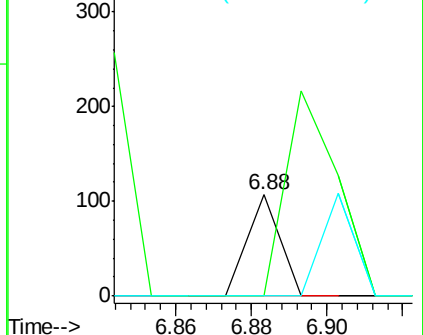
58 0.0 46.6 69.8#

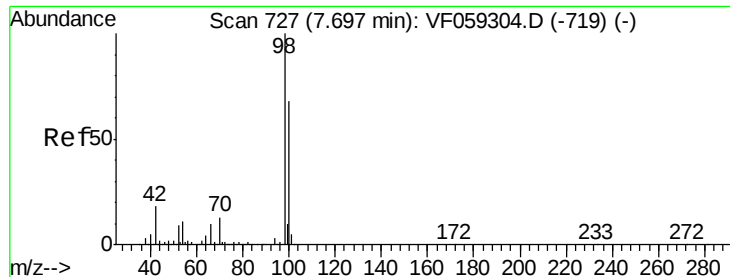


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 35.939 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

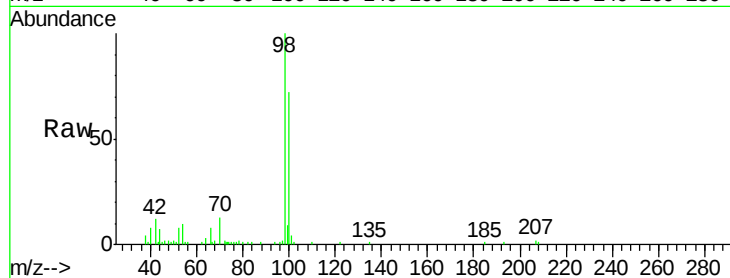
A0C10-01

Tot Ion: 98 Resp: 43065

Ion Ratio Lower Upper

98 100

100 72.5 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.69

20000

15000

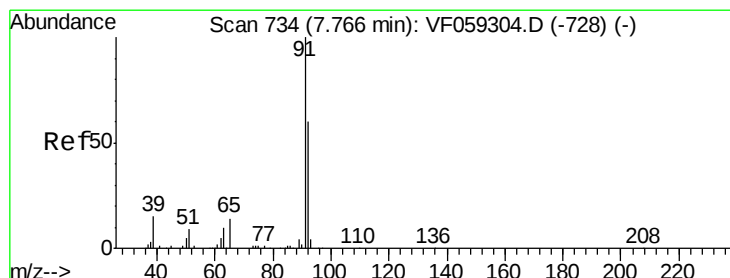
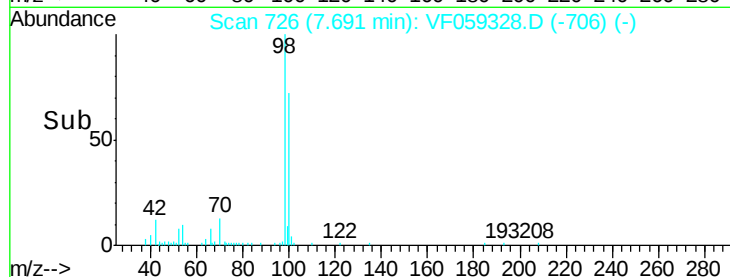
10000

5000

0

7.60 7.70 7.80 7.90

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 2.599 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.06 min

Lab File: VF059328.D

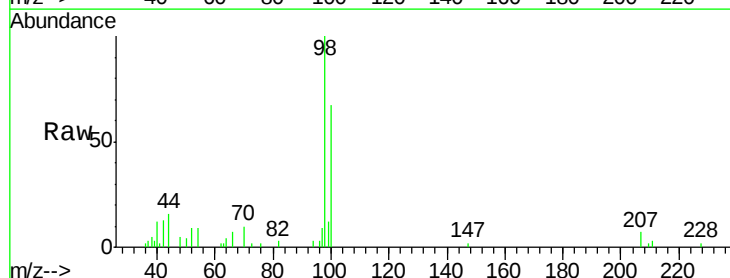
Acq: 26 Jun 2018 20:28

Tgt Ion: 63 Resp: 90

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

7.71

150

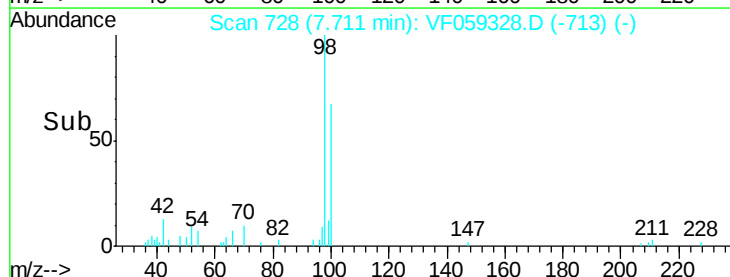
100

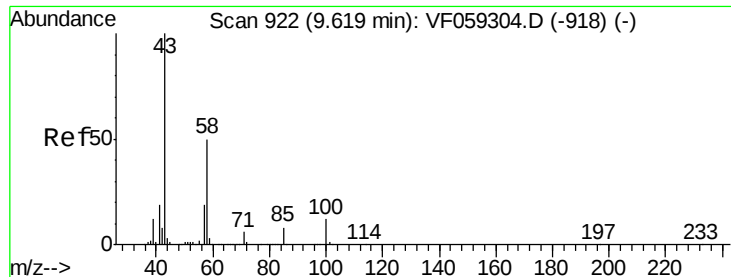
50

0

7.70 7.72 7.74

Time-->

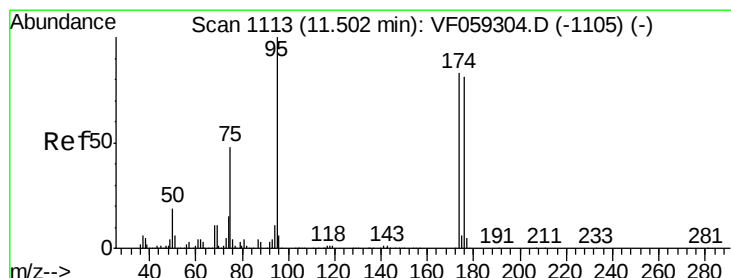
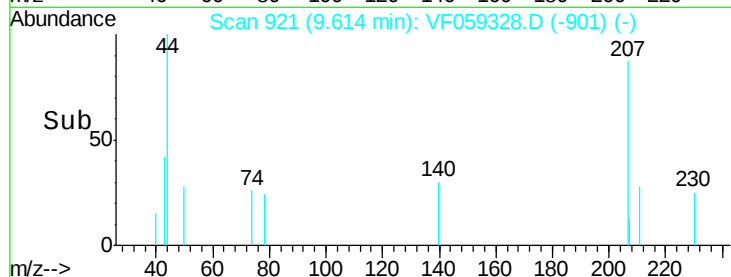
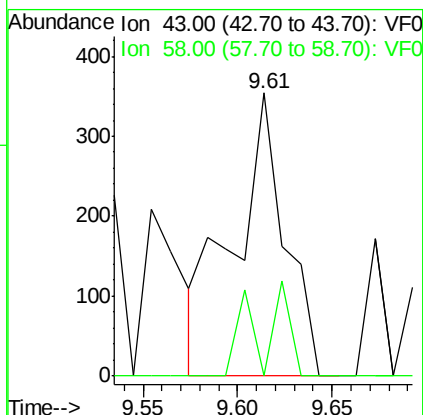
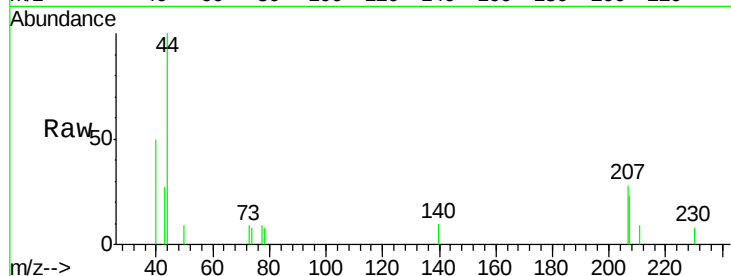




#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 921
Delta R.T. -0.01 min
Lab File: VF059328.D
Acq: 26 Jun 2018 20:28

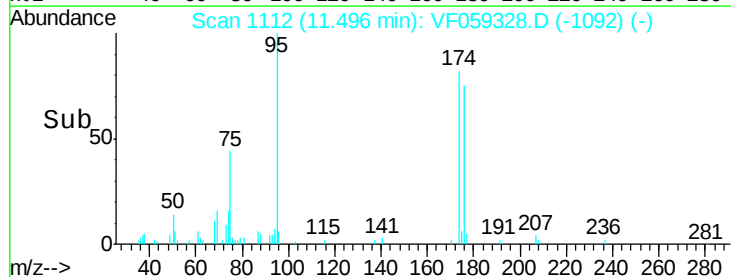
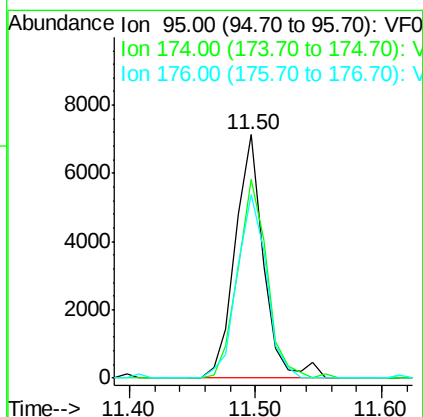
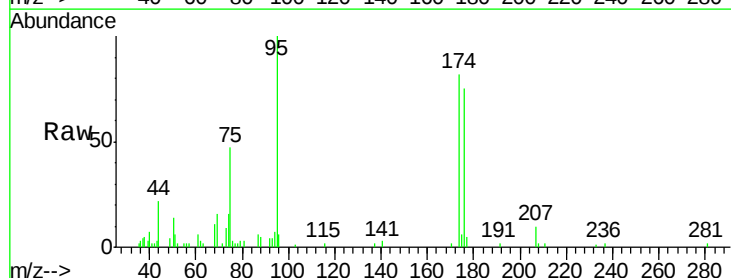
Instrument :
MSVOA_F
ClientSampleId :
A0C10-01

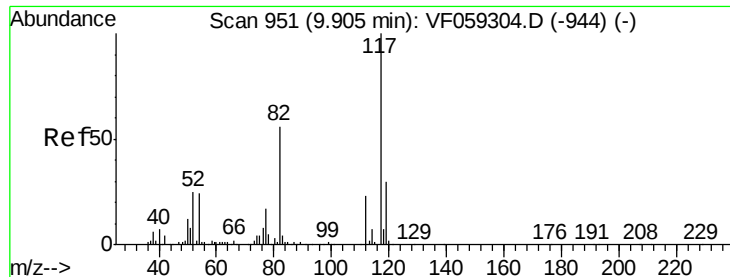
Tot Ion: 43 Resp: 670
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 16.379 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059328.D
Acq: 26 Jun 2018 20:28

Tgt Ion: 95 Resp: 11071
Ion Ratio Lower Upper
95 100
174 81.9 0.0 165.2
176 75.4 0.0 161.0

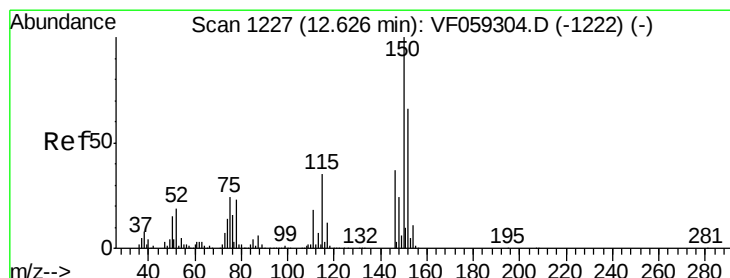
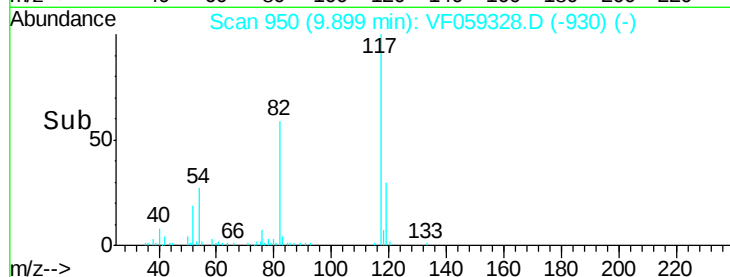
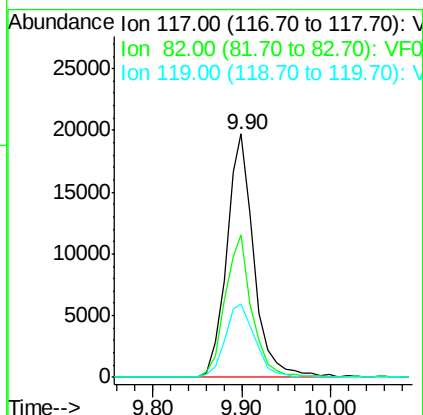
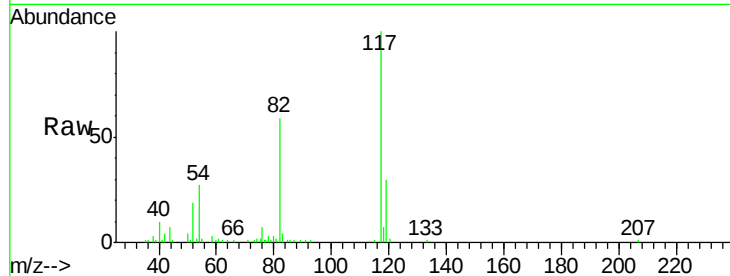




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059328.D
Acq: 26 Jun 2018 20:28

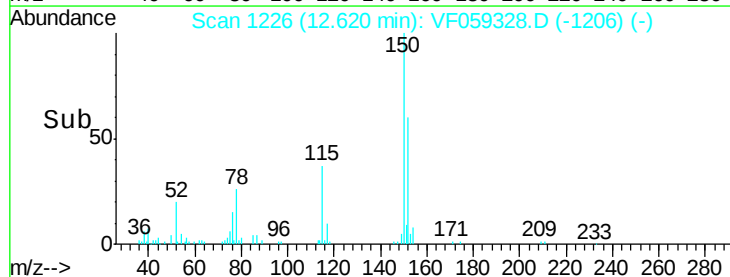
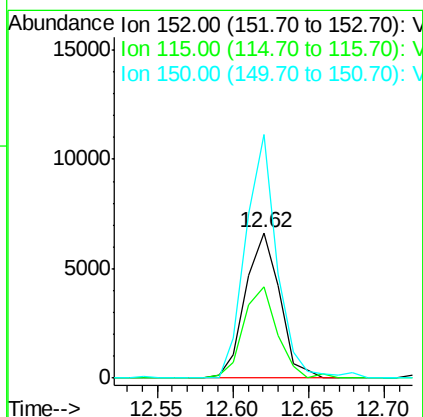
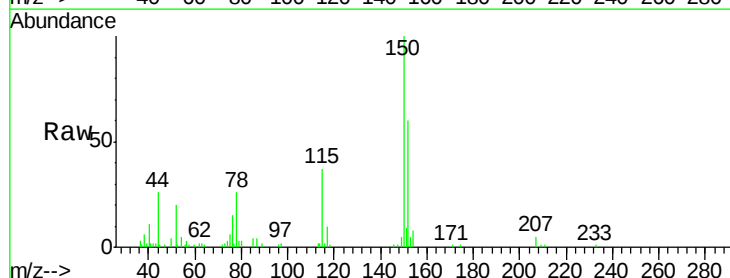
Instrument :
MSVOA_F
ClientSampleId :
A0C10-01

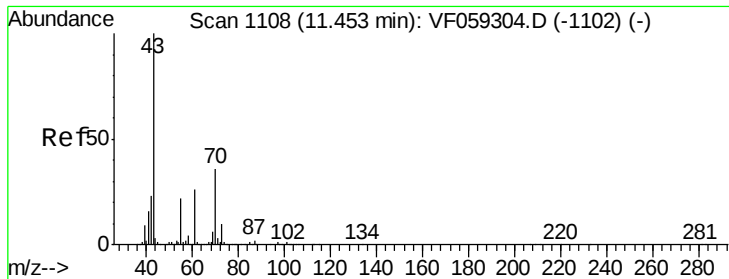
Tot Ion:117 Resp: 42306
Ion Ratio Lower Upper
117 100
82 58.8 44.6 66.8
119 30.2 24.1 36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059328.D
Acq: 26 Jun 2018 20:28

Tgt Ion:152 Resp: 10538
Ion Ratio Lower Upper
152 100
115 65.6 27.1 81.3
150 167.3 0.0 305.2





#74

N-amvl acetate

Concen: 4.183 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

A0C10-01

Tot Ion: 43 Resp: 932

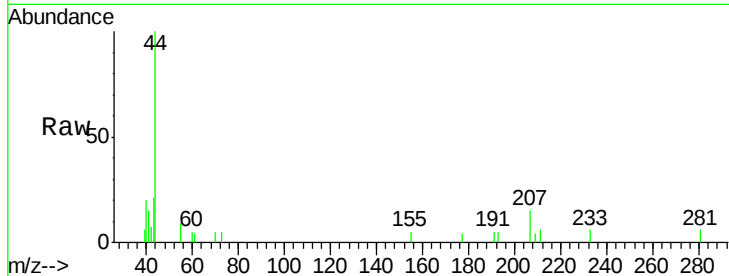
Ion Ratio Lower Upper

43 100

70 21.7 28.8 43.2#

55 43.4 17.4 26.0#

61 20.3 21.1 31.7#

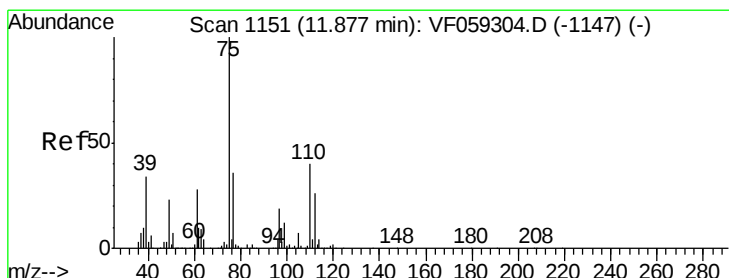
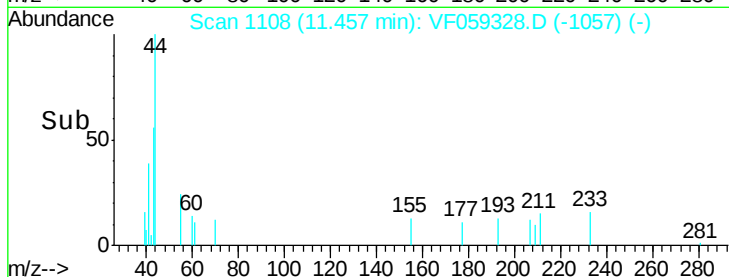
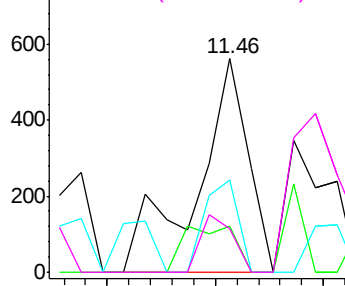


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#76

1,2,3-Trichloropropane

Concen: 1.043 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.02 min

Lab File: VF059328.D

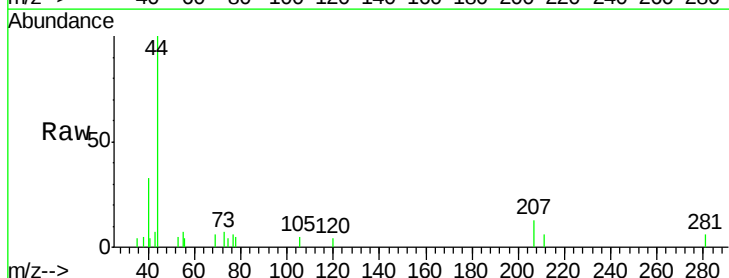
Acq: 26 Jun 2018 20:28

Tgt Ion: 75 Resp: 122

Ion Ratio Lower Upper

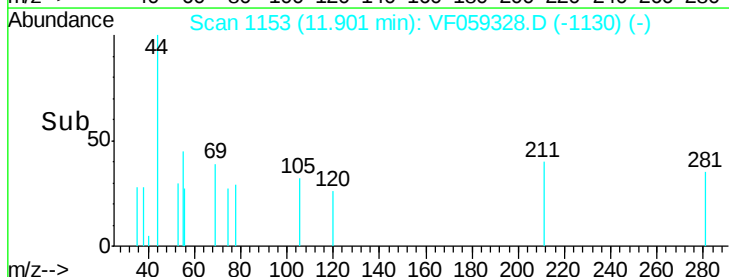
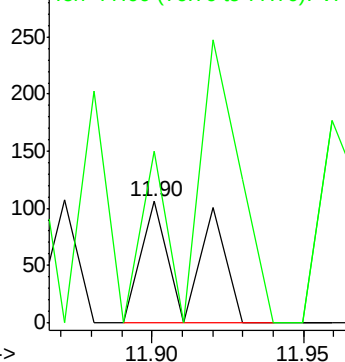
75 100

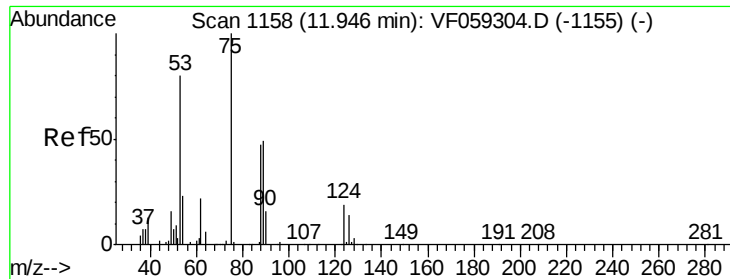
77 141.5 18.0 54.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.753 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.05 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

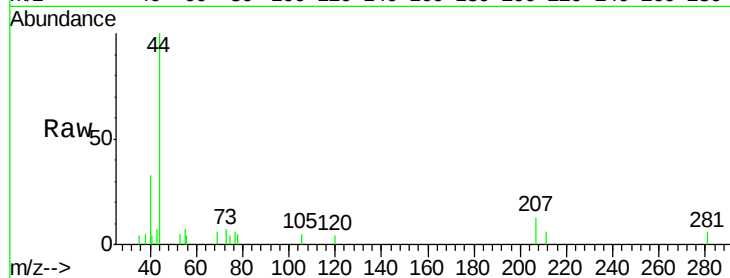
MSVOA_F

ClientSampled :

A0C10-01

Tot Ion: 75 Resp: 122

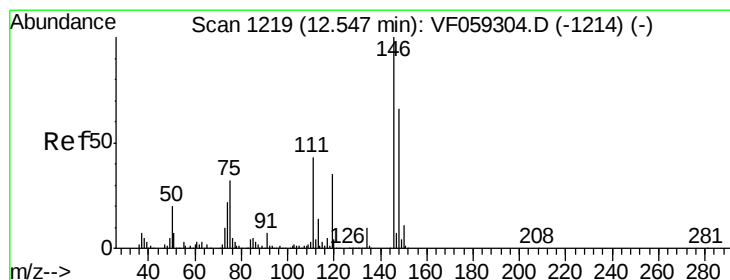
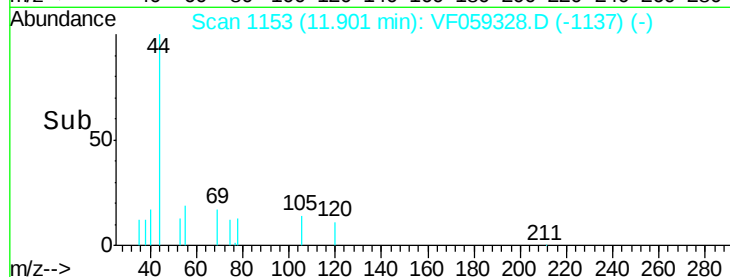
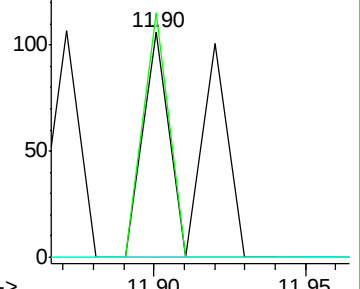
Ion	Ratio	Lower	Upper
75	100		
53	108.5	68.8	103.2#
89	0.0	42.0	63.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

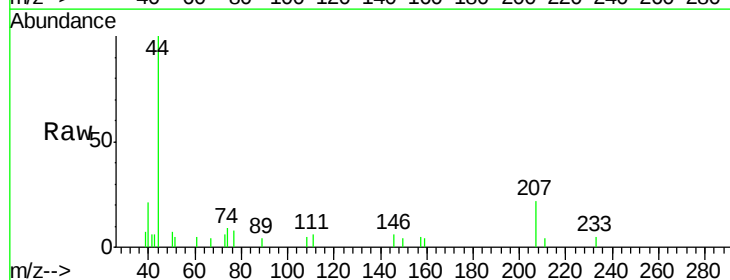
Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Tgt Ion: 146 Resp: 85

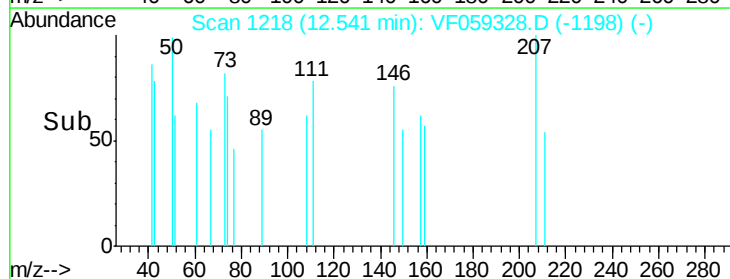
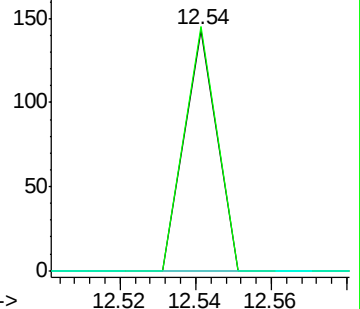
Ion	Ratio	Lower	Upper
146	100		
111	101.4	21.4	64.2#
148	0.0	32.8	98.4#

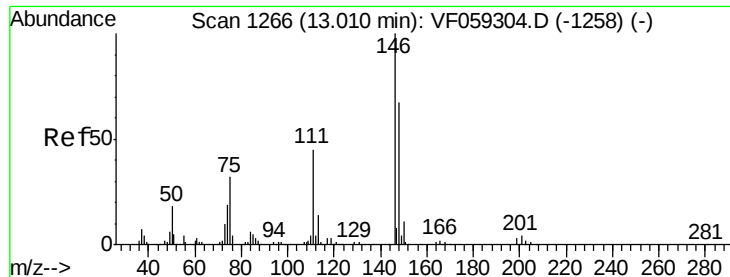


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#91

1,2-Dichlorobenzene

Concen: 1.957 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

A0C10-01

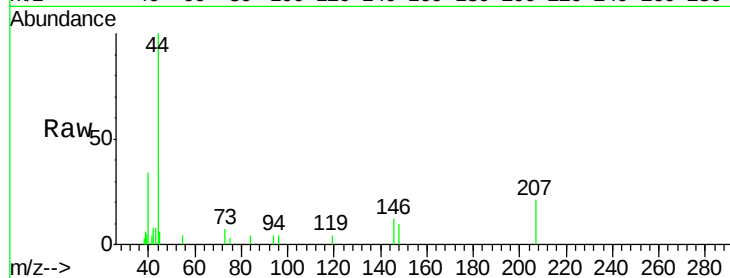
Tot Ion:146 Resp: 605

Ion Ratio Lower Upper

146 100

111 0.0 22.7 68.0#

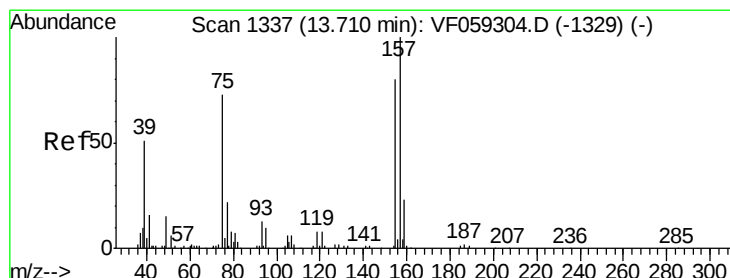
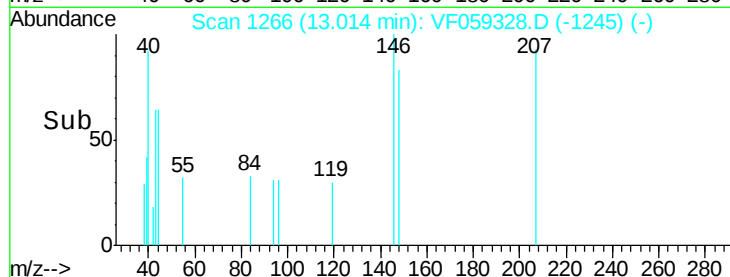
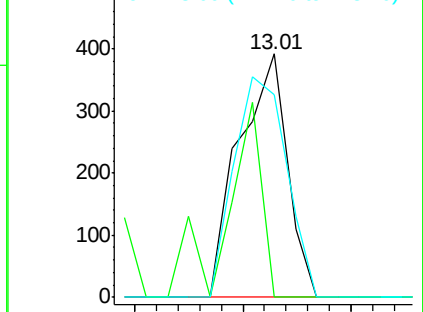
148 83.2 33.5 100.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.706 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

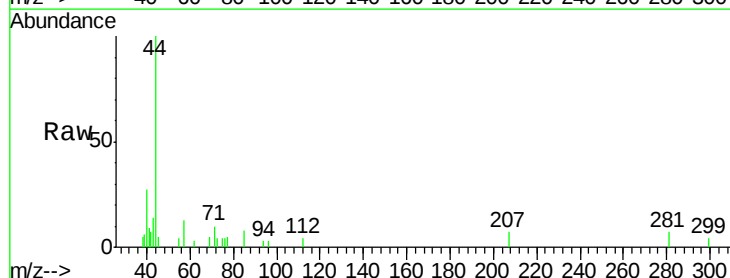
Tgt Ion: 75 Resp: 93

Ion Ratio Lower Upper

75 100

155 0.0 54.6 163.8#

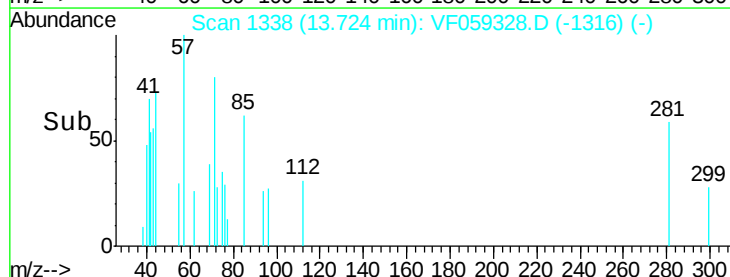
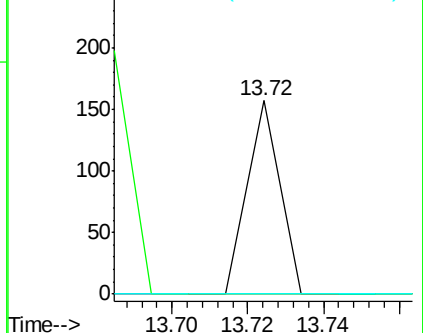
157 0.0 68.7 205.9#

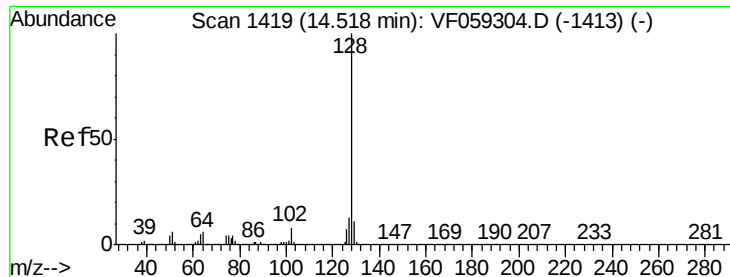


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#95

Naphthalene

Concen: 1.323 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

A0C10-01

Tot Ion:128 Resp: 633

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 0.0 8.8 13.2#

