

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062018\
 Data File : VF059237.D
 Acq On : 20 Jun 2018 20:31
 Operator : VA/AP
 Sample : J3575-14RE
 Misc : 8.05µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-11-SRE

Quant Time: Jun 21 06:39:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	4968	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	6409	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	3942	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	610	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	992	16.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	32.92%	
35) Dibromofluoromethane	4.28	113	1393	30.98	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	61.96%	
50) Toluene-d8	7.70	98	5733	43.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.78%	
62) 4-Bromofluorobenzene	11.51	95	1625	23.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.96%	

Target Compounds			Qvalue			
3) Chloromethane	1.15	50	60	1.38	ug/l #	41
5) Bromomethane	1.22	94	104	4.54	ug/l	84
6) Chloroethane	1.37	64	76	4.66	ug/l #	44
8) Diethyl Ether	1.61	74	76	4.95	ug/l #	1
12) 1,1-Dichloroethene	1.87	96	76	2.32	ug/l #	1
13) Acrolein	2.05	56	67	20.05	ug/l #	12
14) Allyl chloride	2.17	41	335	5.21	ug/l #	33
15) Acrylonitrile	3.05	53	80	10.43	ug/l #	13
16) Acetone	2.32	43	218	15.15	ug/l #	35
17) Carbon Disulfide	1.91	76	135	1.47	ug/l #	73
18) Methyl Acetate	2.49	43	208	8.41	ug/l #	66
19) Methyl tert-butyl Ether	2.51	73	102	1.00	ug/l #	58
20) Methylene Chloride	2.28	84	96	2.79	ug/l #	64
21) trans-1,2-Dichloroethene	2.48	96	68	1.89	ug/l #	1
25) 2-Butanone	4.49	43	147	6.59	ug/l #	56
26) 2,2-Dichloropropane	3.71	77	95	1.71	ug/l #	65
27) cis-1,2-Dichloroethene	3.72	96	61	1.10	ug/l	1
28) Bromochloromethane	3.92	49	61	1.77	ug/l #	2
29) Tetrahydrofuran	4.25	42	70	7.12	ug/l #	36
31) Cyclohexane	3.73	56	69	1.03	ug/l #	15
36) 1,1-Dichloropropene	4.38	75	63	1.01	ug/l #	42
37) Ethyl Acetate	4.36	43	242	6.30	ug/l #	17
39) Methylcyclohexane	5.75	83	201	3.17	ug/l #	13
40) Benzene	4.77	78	289	2.00	ug/l #	50
41) Methacrylonitrile	4.91	41	164	8.70	ug/l #	48
43) Isopropyl Acetate	7.05	43	128	2.49	ug/l #	44
45) 1,2-Dichloropropane	6.45	63	60	1.44	ug/l #	44
48) Methyl methacrylate	6.86	41	419	13.22	ug/l #	15
49) 1,4-Dioxane	6.81	88	61	253.29	ug/l #	16
51) 4-Methyl-2-Pentanone	8.39	43	244	6.93	ug/l #	38
53) t-1,3-Dichloropropene	8.48	75	76	1.10	ug/l #	43
54) cis-1,3-Dichloropropene	7.44	75	101	1.28	ug/l #	26
55) 1,1,2-Trichloroethane	8.77	97	72	1.91	ug/l #	16
56) Ethyl methacrylate	8.76	69	60	1.26	ug/l #	20

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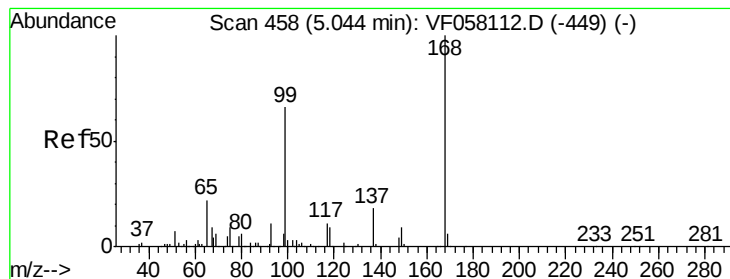
Instrument :
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Quant Time: Jun 21 06:39:08 2018
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) 2-Chloroethyl Vinyl ether	7.73	63	61	17.98	ug/l	100
59) 2-Hexanone	9.62	43	65	2.33	ug/l #	26
60) Dibromochloromethane	8.88	129	83	1.53	ug/l #	12
64) Tetrachloroethene	8.40	164	80	2.77	ug/l #	1
74) N-amyl acetate	11.46	43	160	10.61	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.90	83	72	7.19	ug/l #	24
76) 1,2,3-Trichloropropane	11.94	75	61	8.25	ug/l #	40
78) n-propylbenzene	11.62	91	62	1.24	ug/l #	53
79) 2-Chlorotoluene	11.96	91	143	4.84	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.82	105	60	1.72	ug/l #	21
81) trans-1,4-Dichloro-2-buten	11.94	75	61	12.72	ug/l #	1
82) 4-Chlorotoluene	11.96	91	143	4.55	ug/l #	40
83) tert-Butylbenzene	12.16	119	63	1.82	ug/l #	29
84) 1,2,4-Trimethylbenzene	12.40	105	63	1.74	ug/l #	28
85) sec-Butylbenzene	12.40	105	63	1.34	ug/l #	58
86) p-Isopropyltoluene	12.48	119	63	1.63	ug/l #	50
89) n-Butylbenzene	12.99	91	166	2.87	ug/l #	28
90) Hexachloroethane	12.85	117	60	6.29	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.65	75	75	38.19	ug/l #	8
95) Naphthalene	14.49	128	117	4.14	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

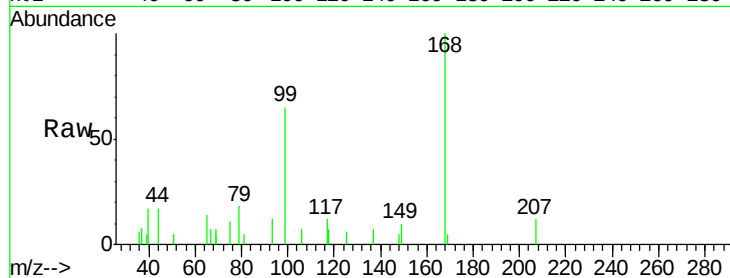
TP-11-SRE

Tot Ion:168 Resp: 4968

Ion Ratio Lower Upper

168 100

99 64.9 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

2000

1500

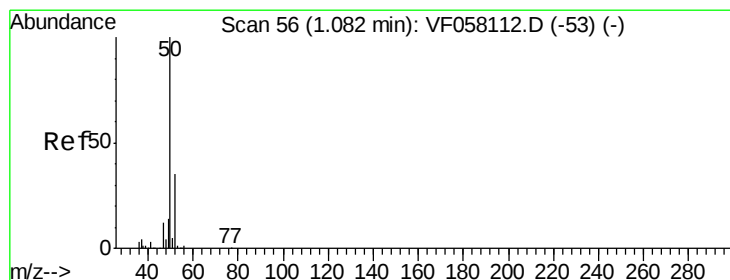
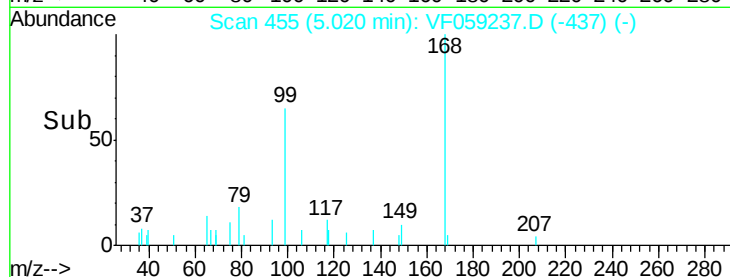
1000

500

0

4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: 1.38 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.06 min

Lab File: VF059237.D

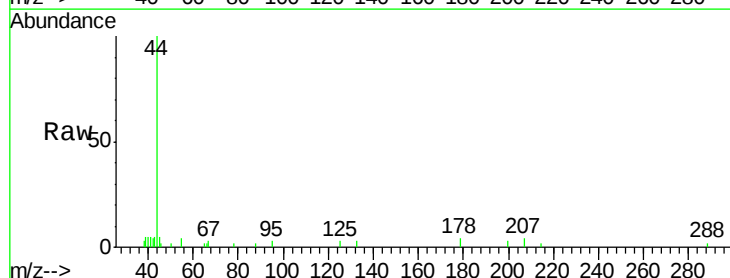
Acq: 20 Jun 2018 20:31

Tgt Ion: 50 Resp: 60

Ion Ratio Lower Upper

50 100

52 0.0 27.3 40.9#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

200

150

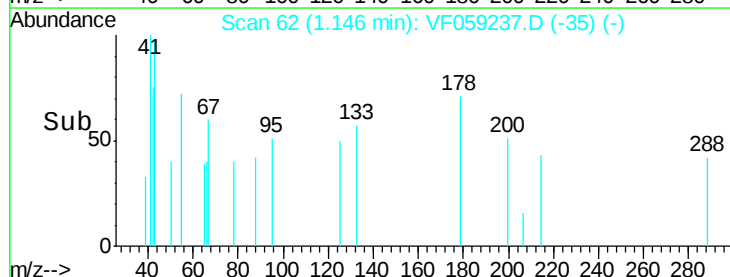
100

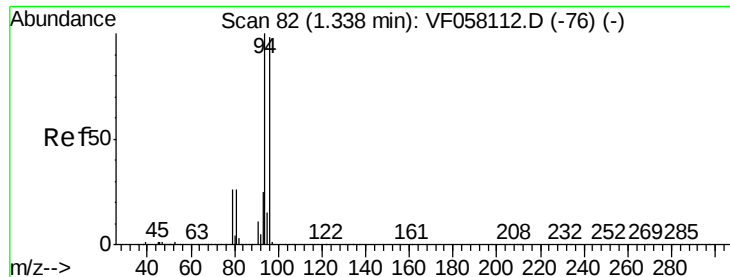
50

0

1.12 1.14 1.16

Time-->

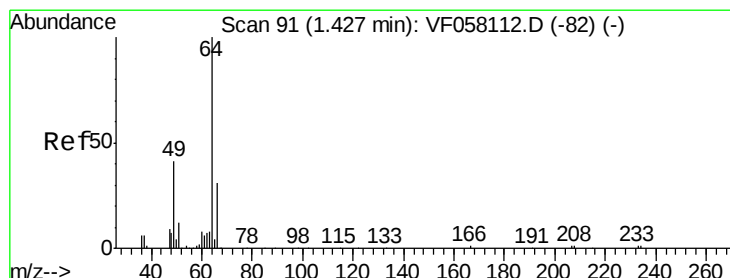
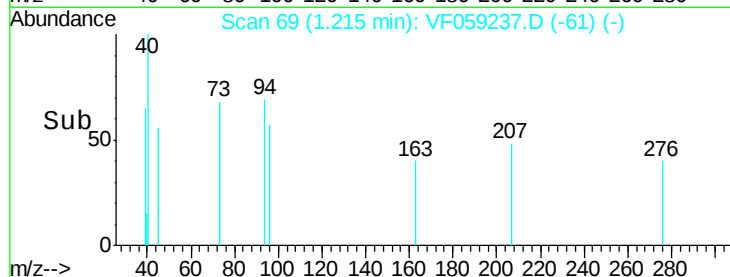
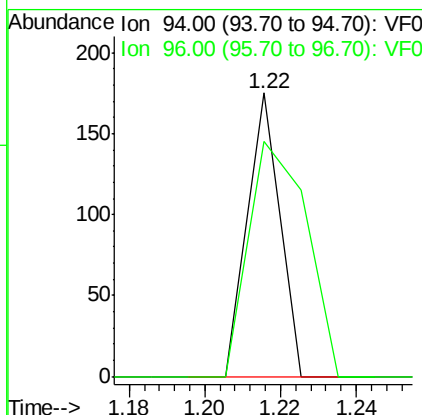
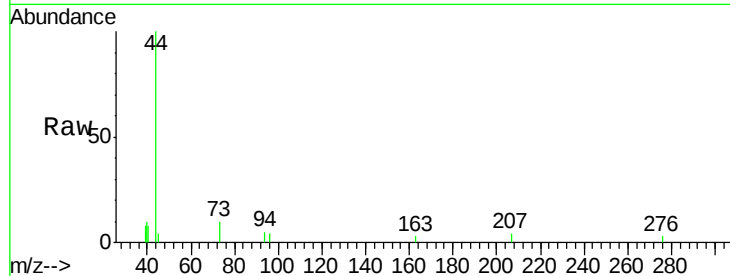




#5
Bromomethane
Concen: 4.54 ug/l
RT: 1.22 min Scan# 69
Delta R.T. -0.12 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

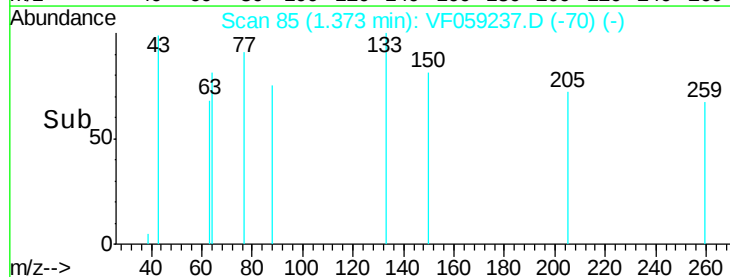
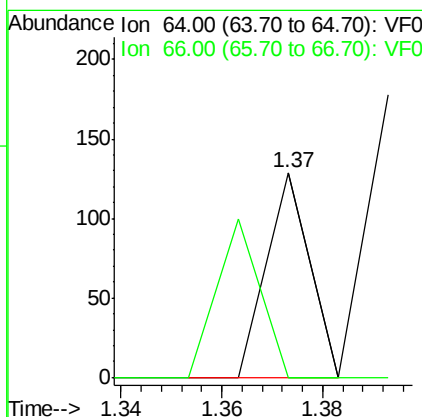
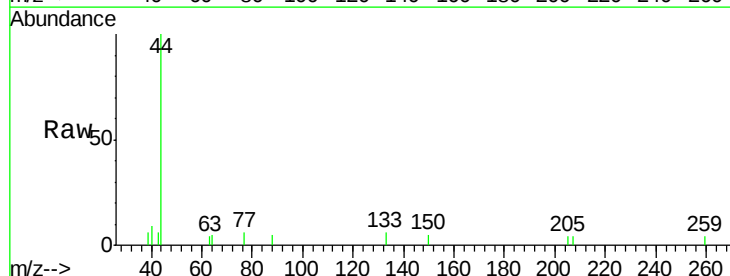
Instrument :
MSVOA_F
ClientSampleId :
TP-11-SRE

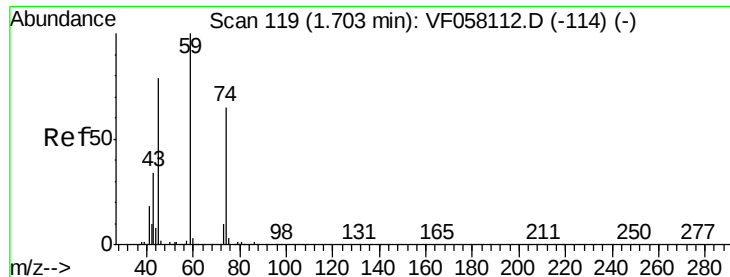
Tot Ion: 94 Resp: 104
Ion Ratio Lower Upper
94 100
96 82.9 78.6 117.8



#6
Chloroethane
Concen: 4.66 ug/l
RT: 1.37 min Scan# 85
Delta R.T. -0.05 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Tgt Ion: 64 Resp: 76
Ion Ratio Lower Upper
64 100
66 0.0 24.9 37.3#





#8

Diethyl Ether

Concen: 4.95 ug/l

RT: 1.61 min Scan# 109

Delta R.T. -0.09 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

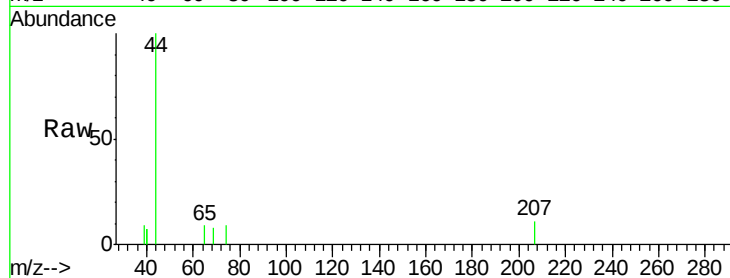
TP-11-SRE

Tot Ion: 74 Resp: 76

Ion Ratio Lower Upper

74 100

45 0.0 61.5 184.4#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.61

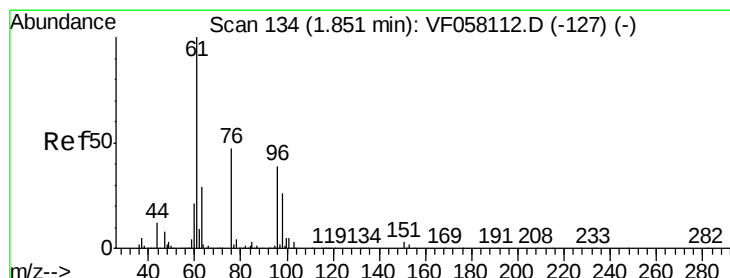
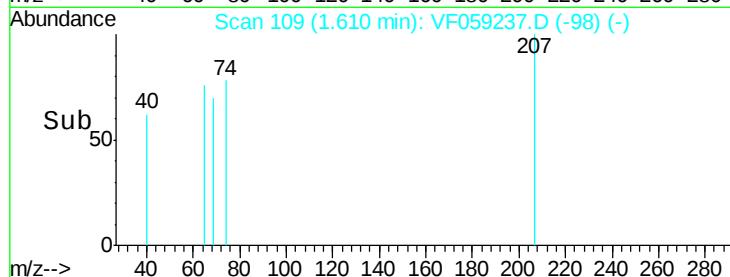
100

50

0

1.58 1.60 1.62 1.64

Time-->



#12

1,1-Dichloroethene

Concen: 2.32 ug/l

RT: 1.87 min Scan# 135

Delta R.T. 0.02 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

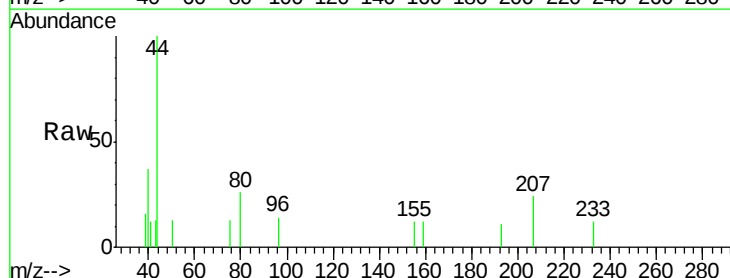
Tgt Ion: 96 Resp: 76

Ion Ratio Lower Upper

96 100

61 0.0 203.0 304.4#

98 0.0 52.7 79.1#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

1.87

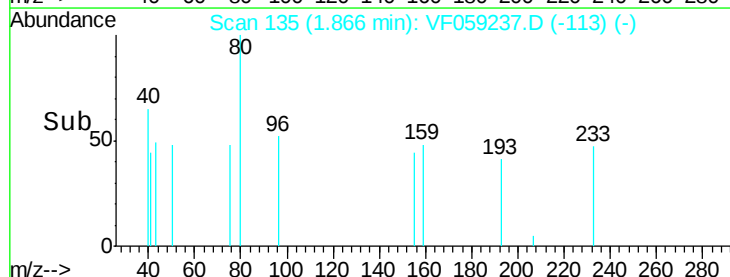
100

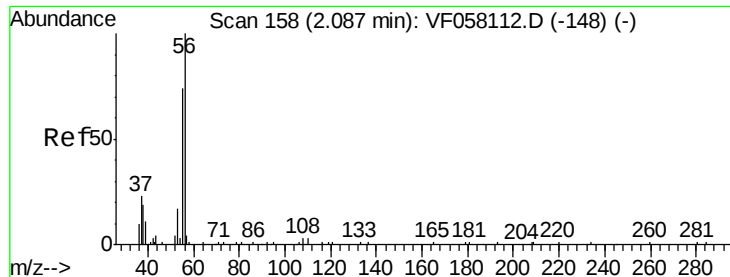
50

0

1.84 1.86 1.88 1.90

Time-->





#13

Acrolein

Concen: 20.05 ug/l

RT: 2.05 min Scan# 154

Delta R.T. -0.03 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

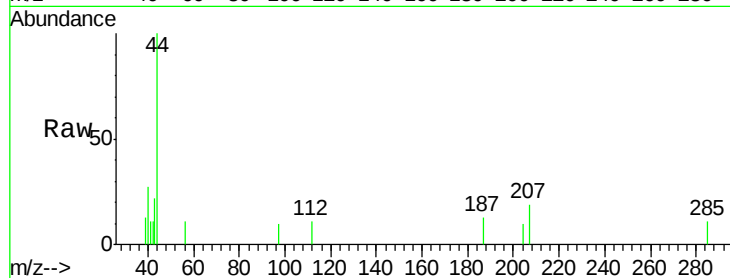
TP-11-SRE

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

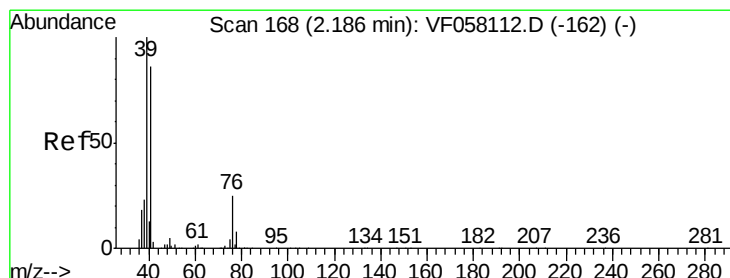
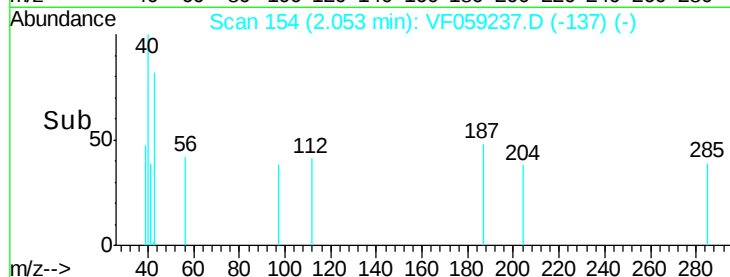
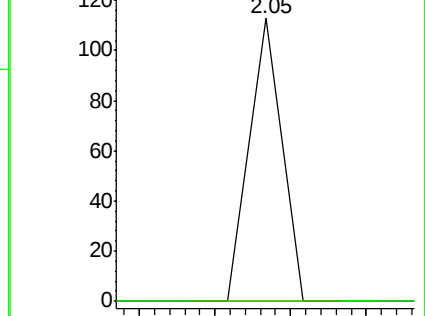
56 100

55 0.0 60.0 90.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 5.21 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.01 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

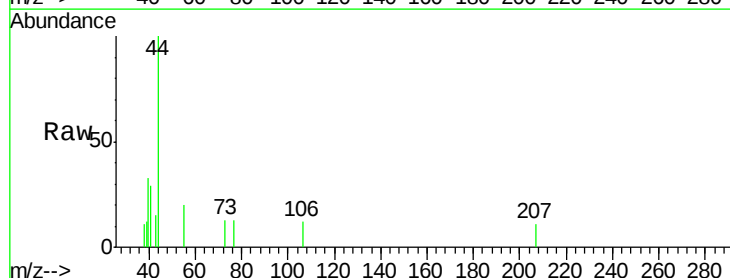
Tgt Ion: 41 Resp: 335

Ion Ratio Lower Upper

41 100

39 40.6 93.5 140.3#

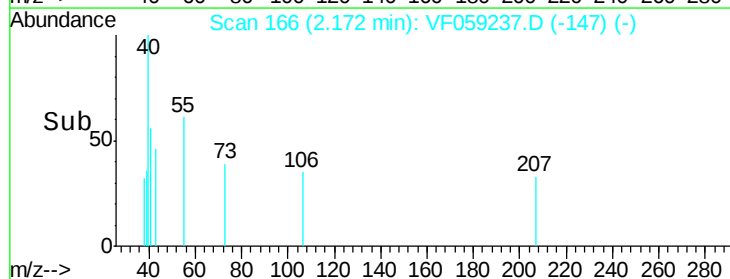
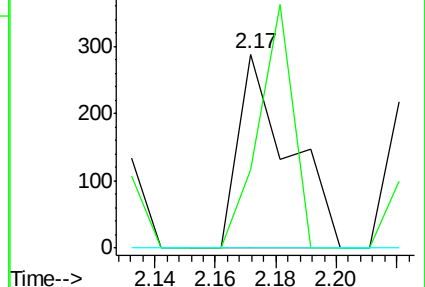
76 0.0 23.9 35.9#

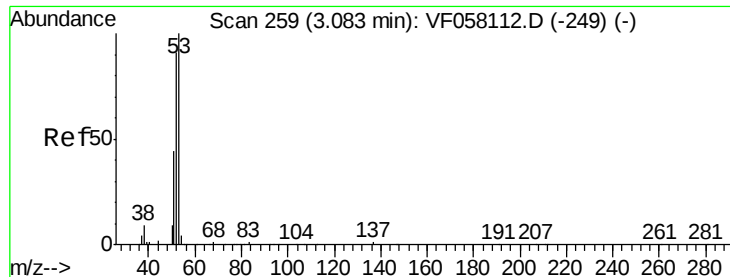


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 10.43 ug/l

RT: 3.05 min Scan# 255

Delta R.T. -0.03 min

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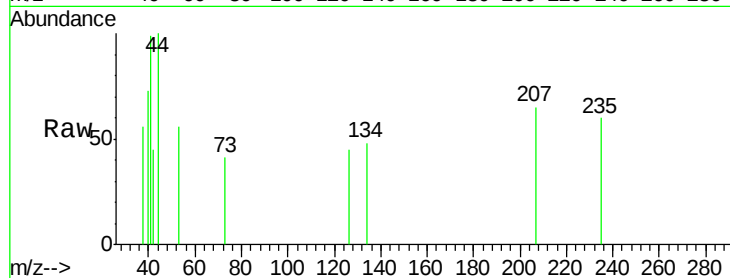
Tot Ion: 53 Resp: 80

Ion Ratio Lower Upper

53 100

52 0.0 73.2 109.8#

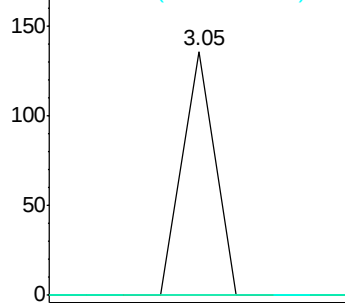
51 0.0 35.6 53.4#



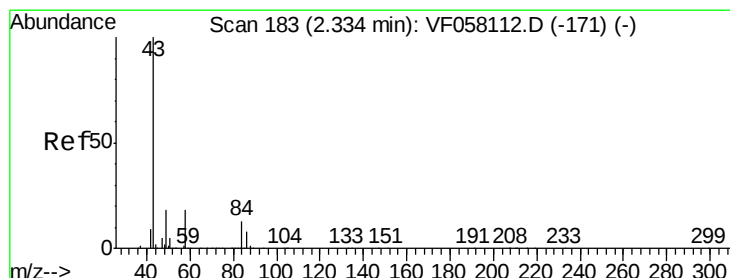
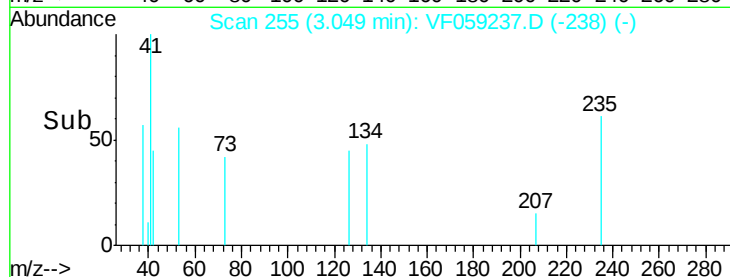
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 15.15 ug/l

RT: 2.32 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059237.D

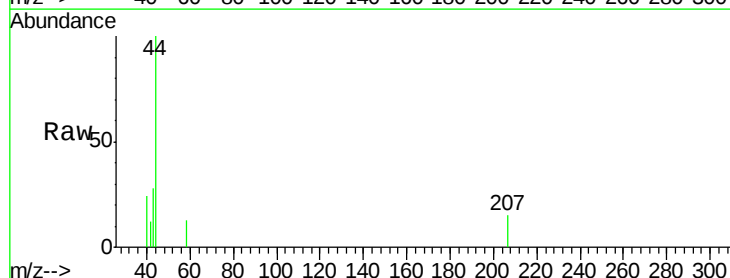
Acq: 20 Jun 2018 20:31

Tgt Ion: 43 Resp: 218

Ion Ratio Lower Upper

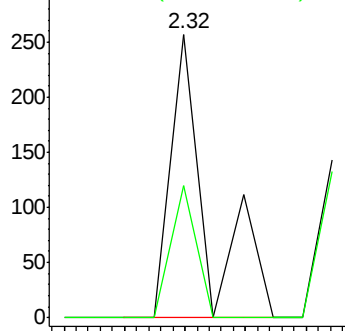
43 100

58 46.7 14.4 21.6#

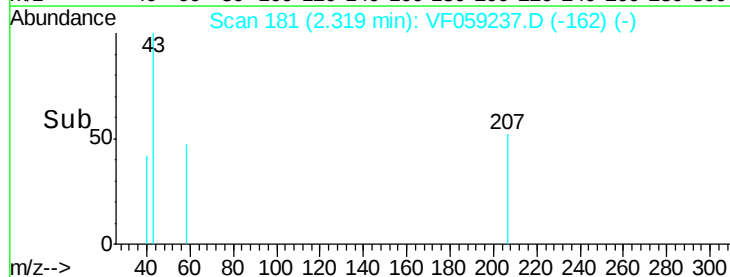


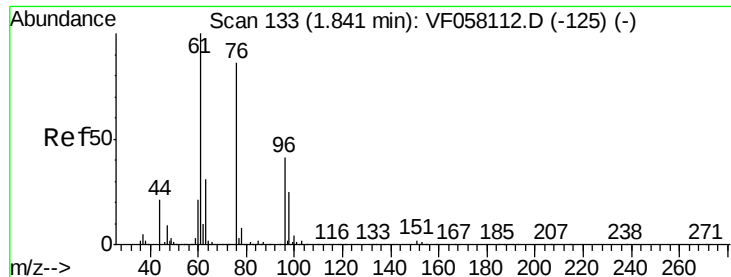
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#17

Carbon Disulfide

Concen: 1.47 ug/l

RT: 1.91 min Scan# 139

Delta R.T. 0.06 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

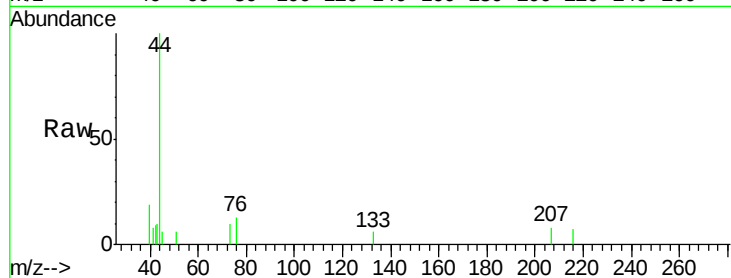
TP-11-SRE

Tot Ion: 76 Resp: 135

Ion Ratio Lower Upper

76 100

78 0.0 7.8 11.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

1.91

250

200

150

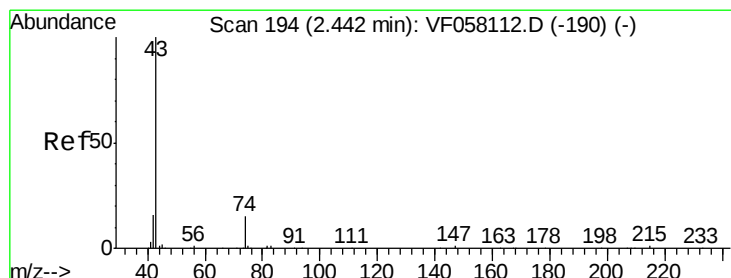
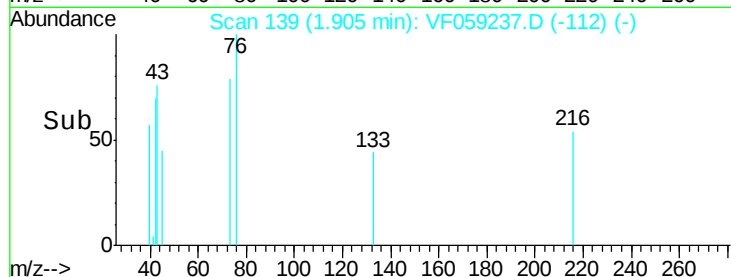
100

50

0

1.88 1.90 1.92

Time-->



#18

Methyl Acetate

Concen: 8.41 ug/l

RT: 2.49 min Scan# 198

Delta R.T. 0.05 min

Lab File: VF059237.D

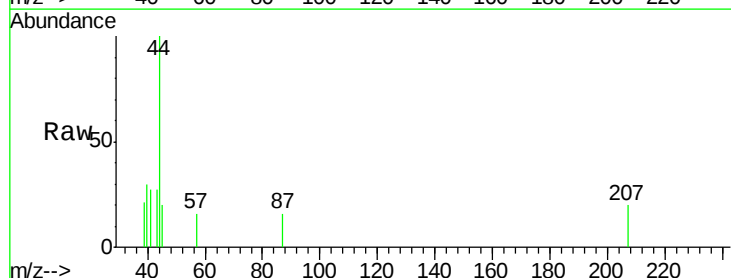
Acq: 20 Jun 2018 20:31

Tgt Ion: 43 Resp: 208

Ion Ratio Lower Upper

43 100

74 0.0 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.49

200

150

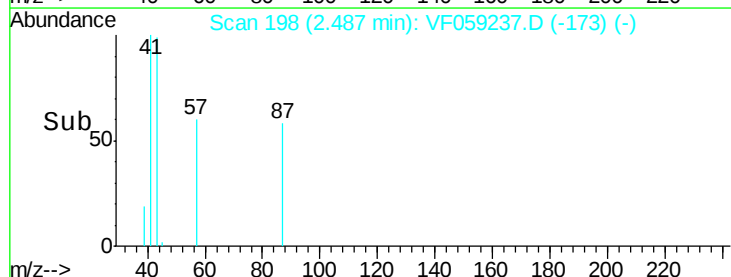
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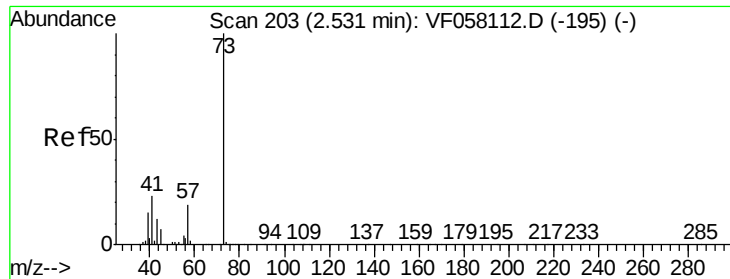
50

0

2.45 2.50

Time-->



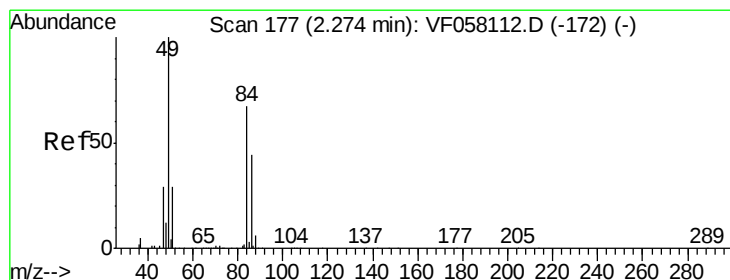
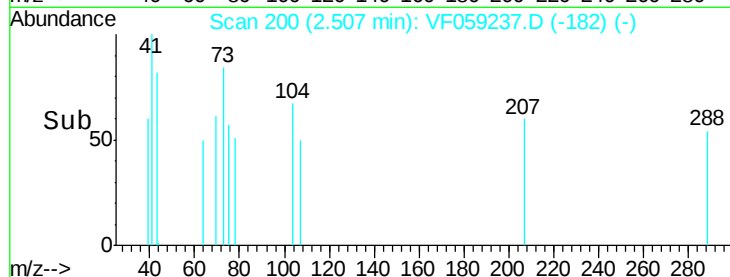
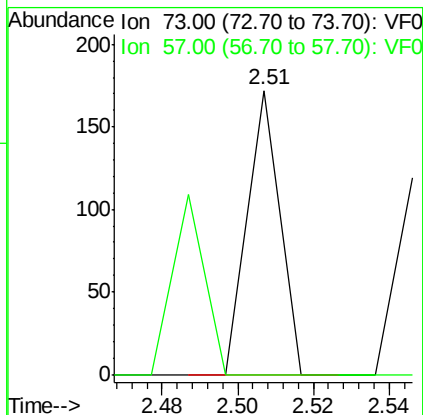
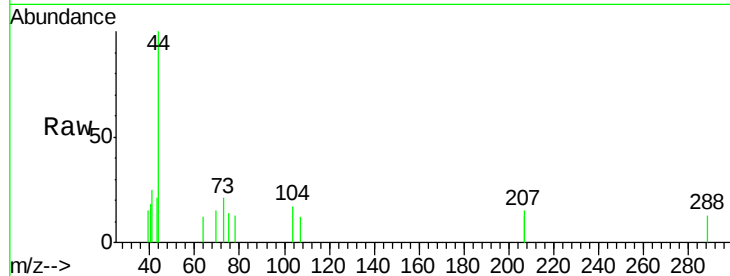


#19

Methyl tert-butyl Ether
 Concen: 1.00 ug/l
 RT: 2.51 min Scan# 200
 Delta R.T. -0.02 min
 Lab File: VF059237.D
 Acq: 20 Jun 2018 20:31

Instrument :
 MSVOA_F
 ClientSampleID :
 TP-11-SRE

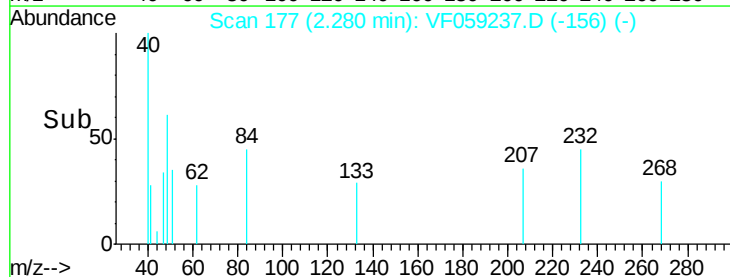
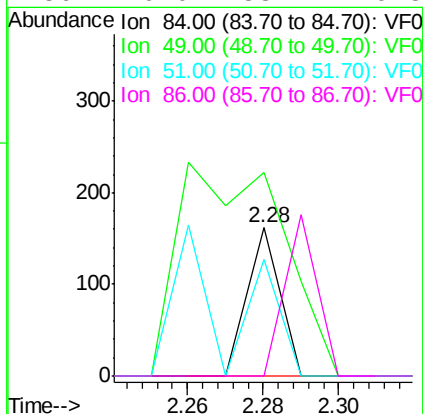
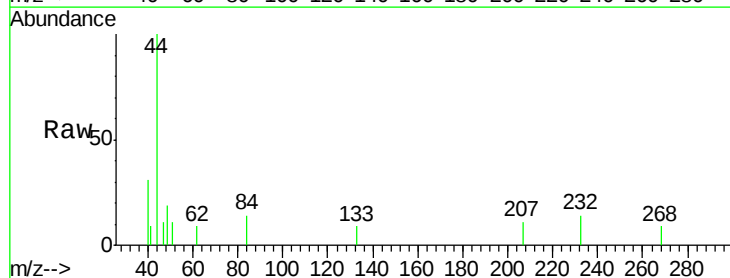
Tot Ion: 73 Resp: 102
 Ion Ratio Lower Upper
 73 100
 57 0.0 15.0 22.4#

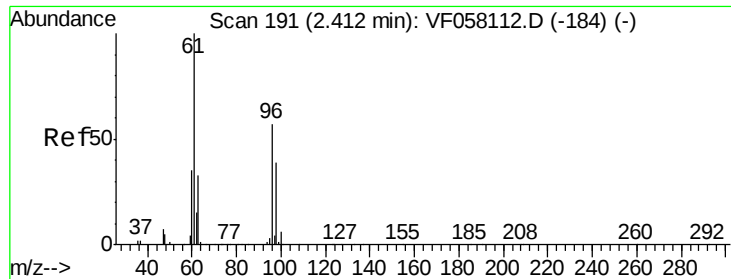


#20

Methylene Chloride
 Concen: 2.79 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. 0.01 min
 Lab File: VF059237.D
 Acq: 20 Jun 2018 20:31

Tgt Ion: 84 Resp: 96
 Ion Ratio Lower Upper
 84 100
 49 137.0 121.0 181.4
 51 78.4 35.8 53.6#
 86 0.0 53.2 79.8#





#21

trans-1,2-Dichloroethene

Concen: 1.89 ug/l

RT: 2.48 min Scan# 197

Delta R.T. 0.06 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

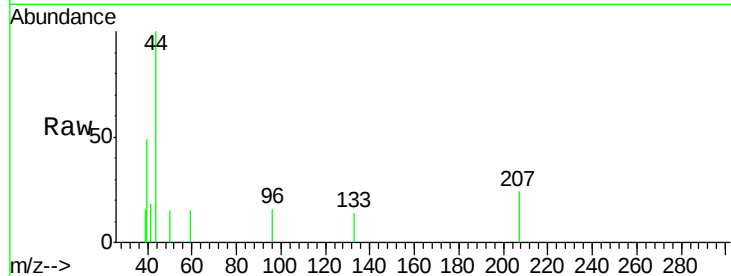
Tot Ion: 96 Resp: 68

Ion Ratio Lower Upper

96 100

61 0.0 139.4 209.2#

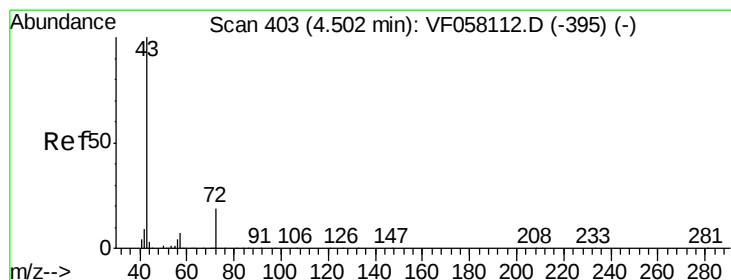
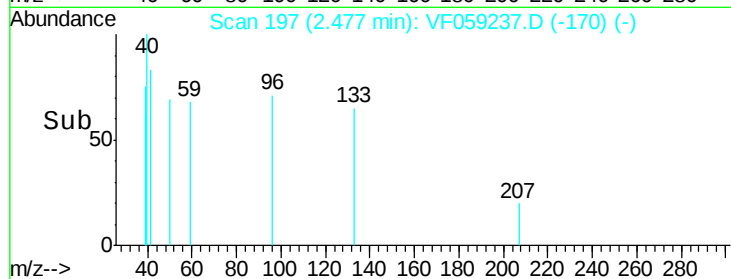
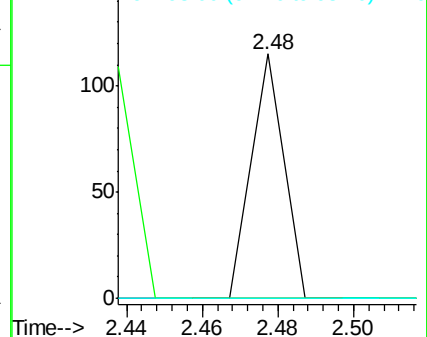
98 0.0 54.0 81.0#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#25

2-Butanone

Concen: 6.59 ug/l

RT: 4.49 min Scan# 401

Delta R.T. -0.01 min

Lab File: VF059237.D

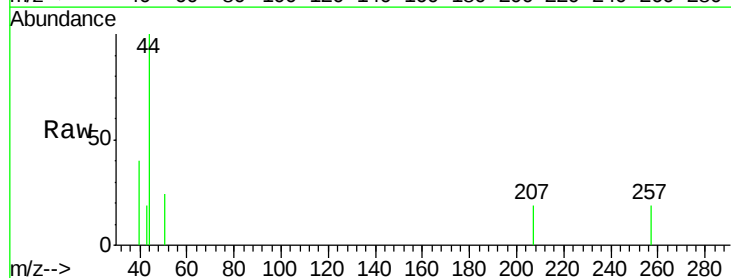
Acq: 20 Jun 2018 20:31

Tgt Ion: 43 Resp: 147

Ion Ratio Lower Upper

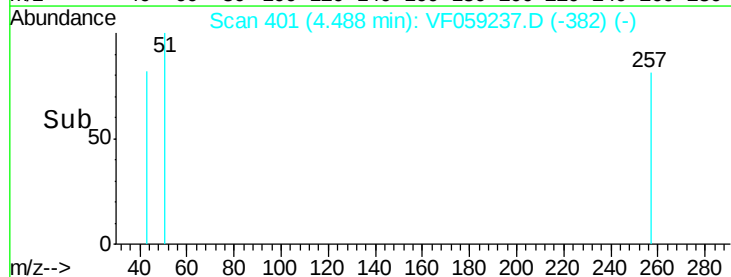
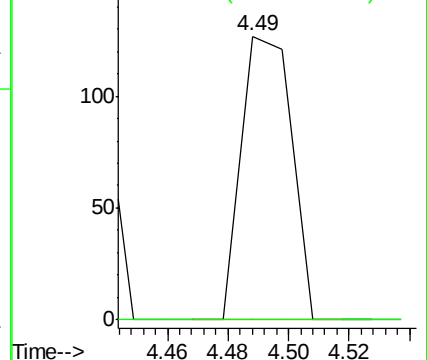
43 100

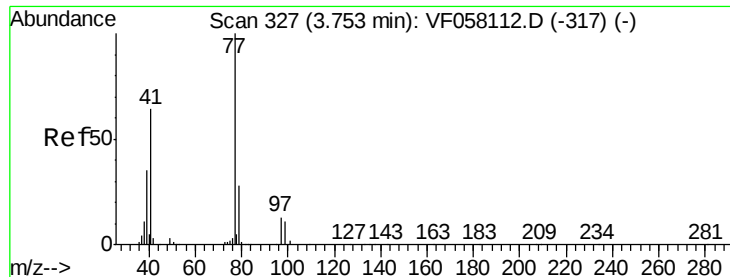
72 0.0 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 1.71 ug/l

RT: 3.71 min Scan# 322

Delta R.T. -0.04 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

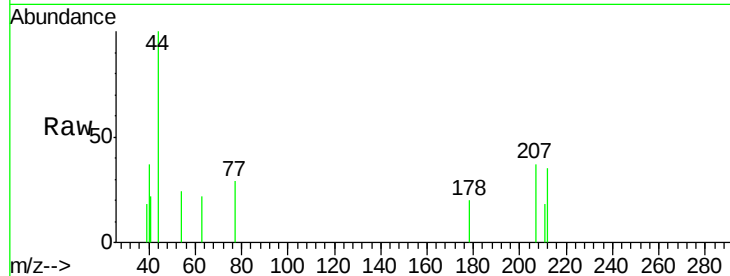
TP-11-SRE

Tot Ion: 77 Resp: 95

Ion Ratio Lower Upper

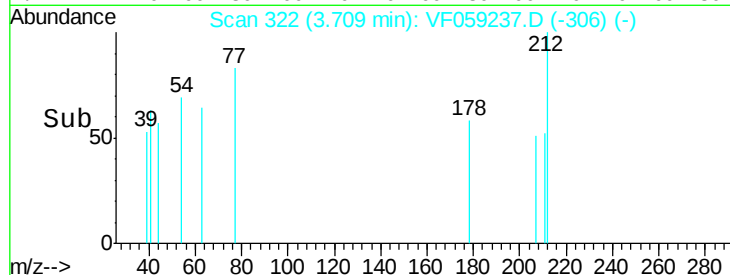
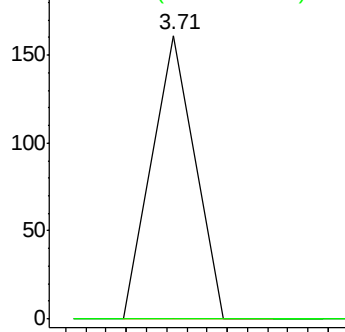
77 100

97 0.0 7.2 21.6#

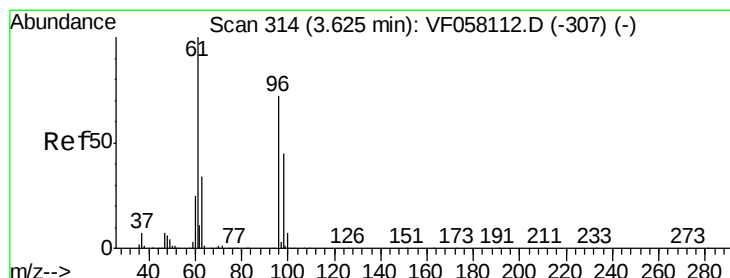


Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.10 ug/l

RT: 3.72 min Scan# 323

Delta R.T. 0.09 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

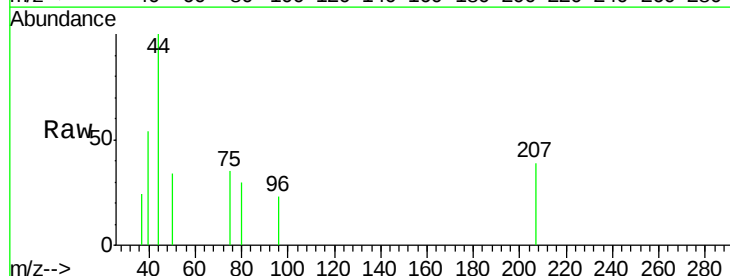
Tgt Ion: 96 Resp: 61

Ion Ratio Lower Upper

96 100

61 0.0 0.0 278.6

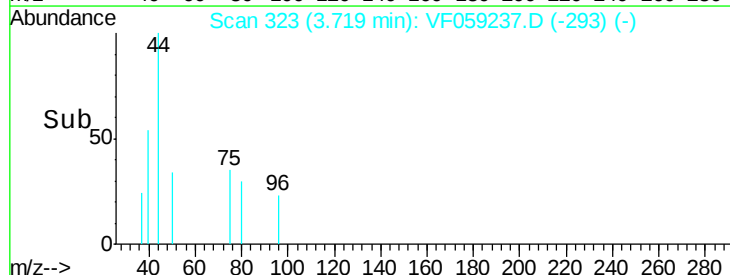
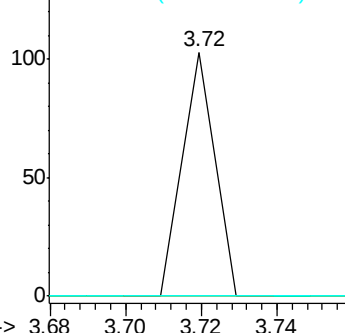
98 0.0 0.0 125.2



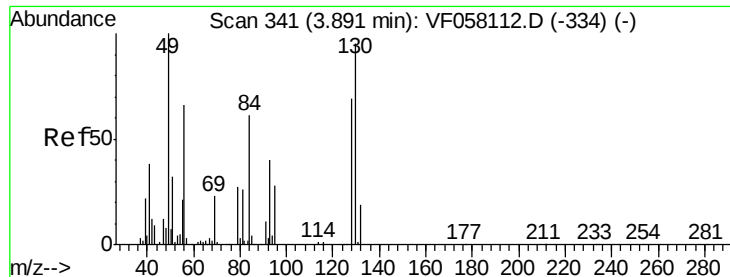
Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->



#28

Bromochloromethane

Concen: 1.77 ug/l

RT: 3.92 min Scan# 343

Delta R.T. 0.03 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

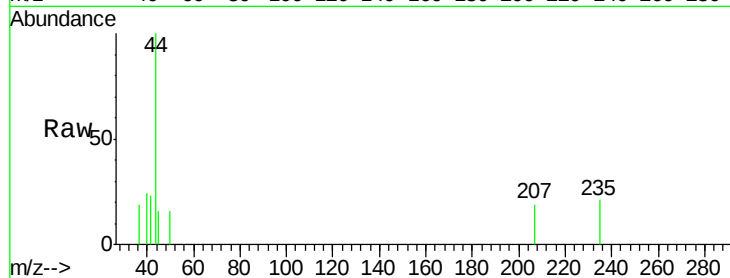
Tot Ion: 49 Resp: 61

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

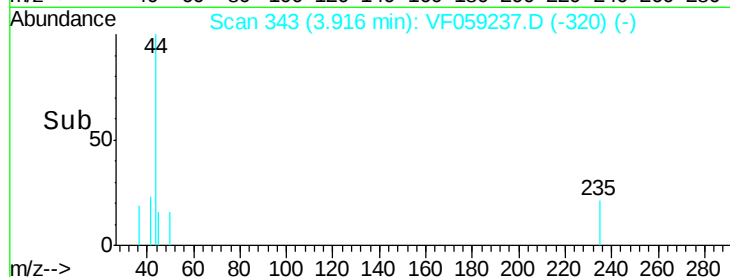
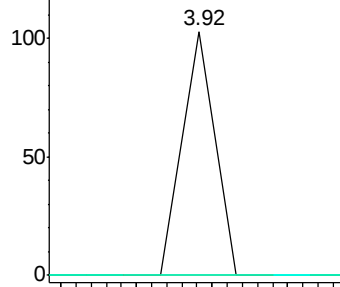
130 0.0 75.8 113.8#



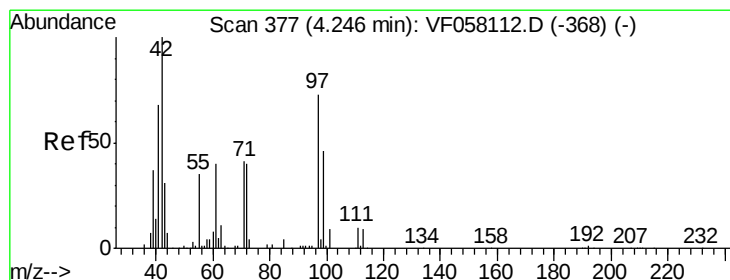
Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 7.12 ug/l

RT: 4.25 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

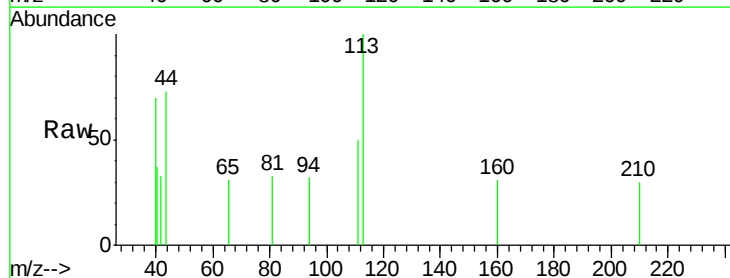
Tgt Ion: 42 Resp: 70

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

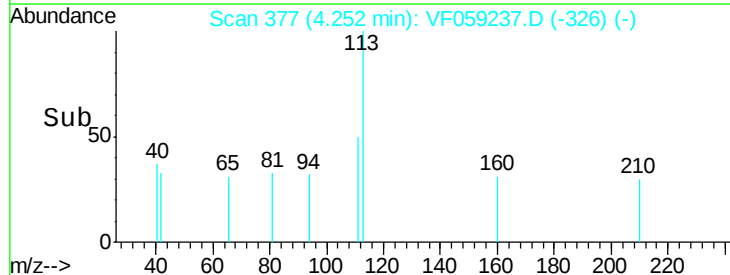
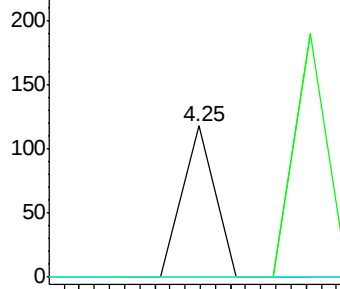
71 0.0 31.5 47.3#

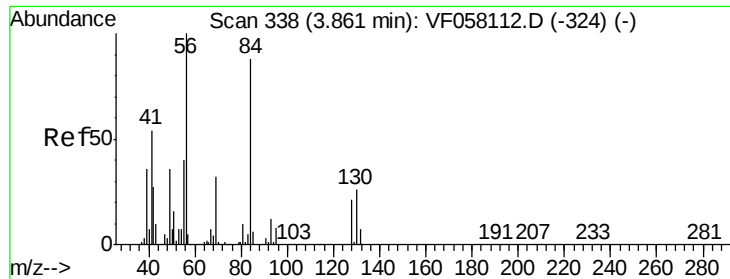


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

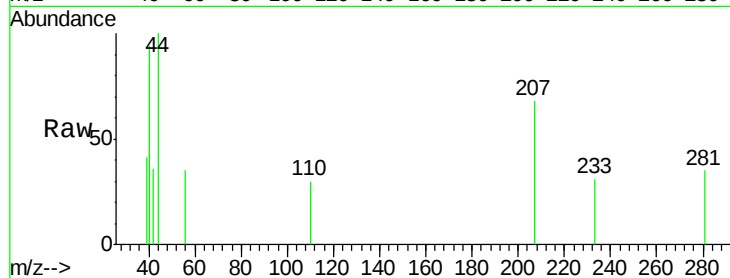




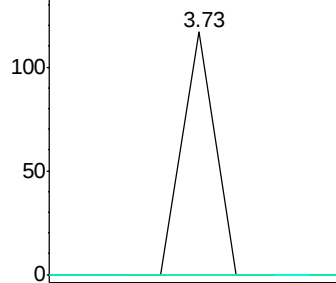
#31
Cvclohexane
Concen: 1.03 ug/l
RT: 3.73 min Scan# 324
Delta R.T. -0.13 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Instrument :
MSVOA_F
ClientSampleId :
TP-11-SRE

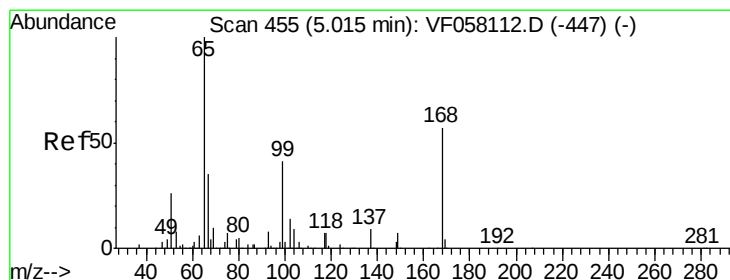
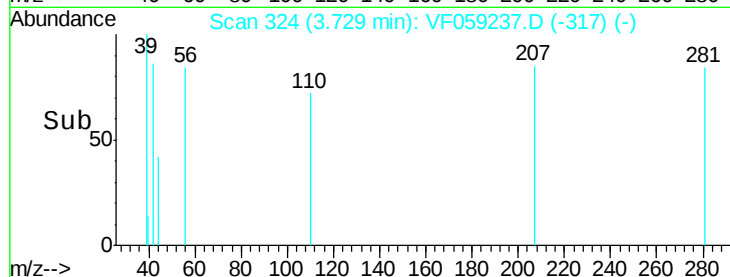
Tot Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
69 0.0 25.9 38.9#
84 0.0 70.3 105.5#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

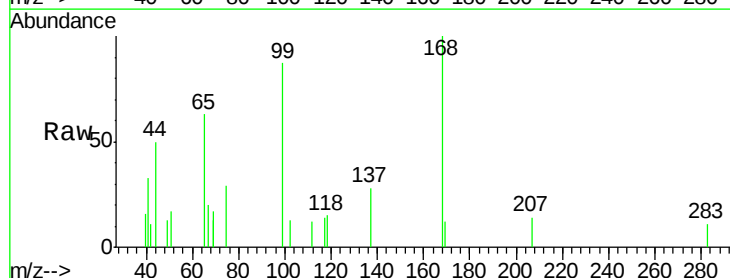


Time-->

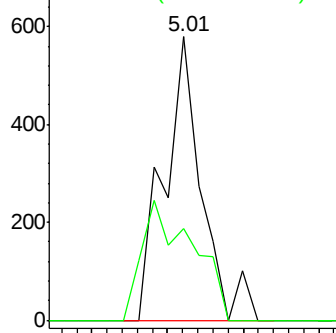


#33
1,2-Dichloroethane-d4
Concen: 16.46 ug/l
RT: 5.01 min Scan# 454
Delta R.T. -0.00 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

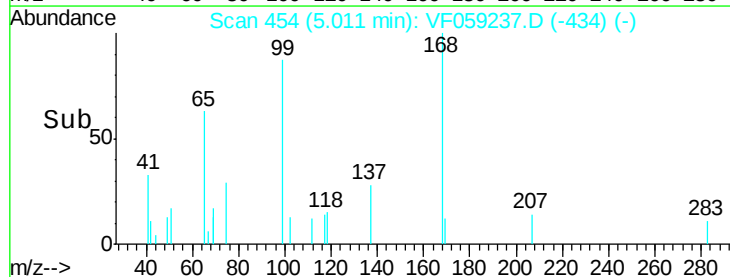
Tgt Ion: 65 Resp: 992
Ion Ratio Lower Upper
65 100
67 32.1 0.0 97.0

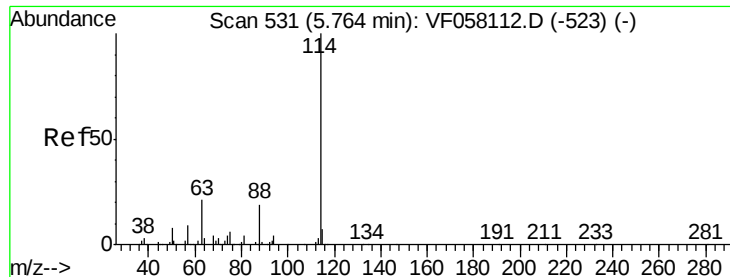


Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

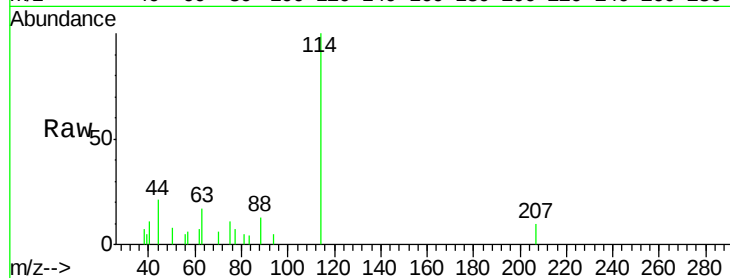
Tot Ion:114 Resp: 6409

Ion Ratio Lower Upper

114 100

63 17.3 0.0 41.6

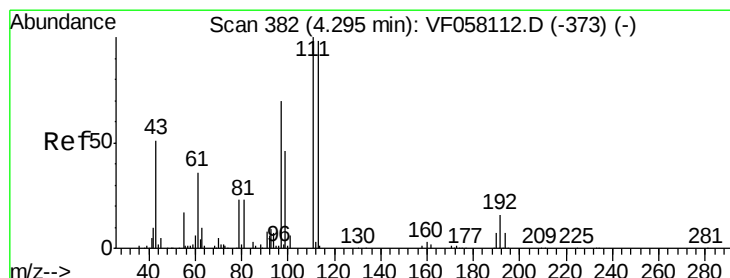
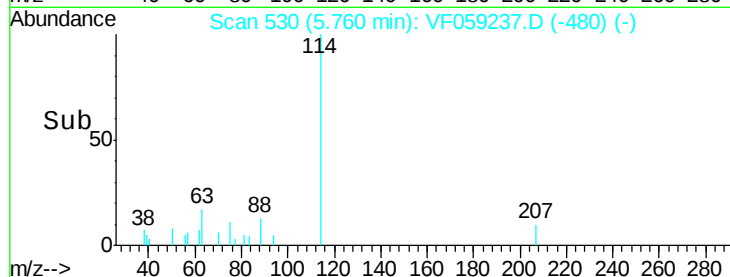
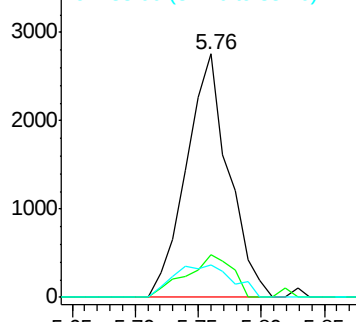
88 13.1 0.0 38.8



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: 30.98 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

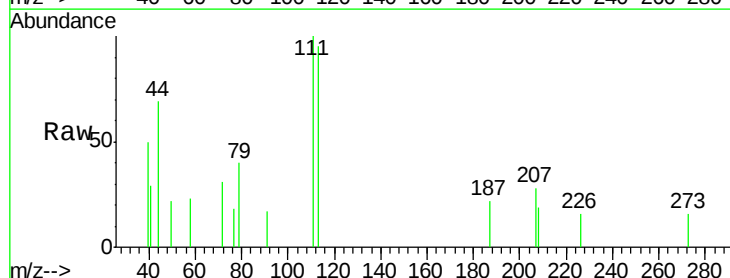
Tgt Ion:113 Resp: 1393

Ion Ratio Lower Upper

113 100

111 105.6 81.3 121.9

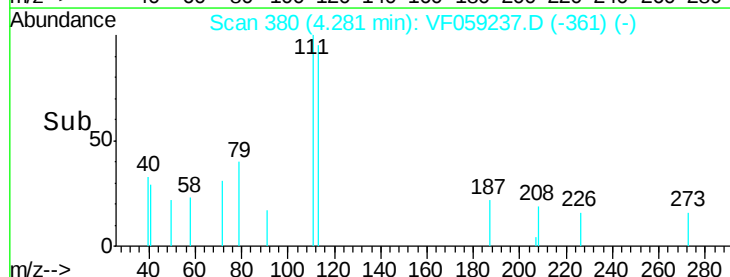
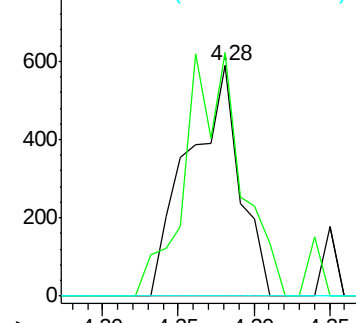
192 0.0 12.7 19.1#

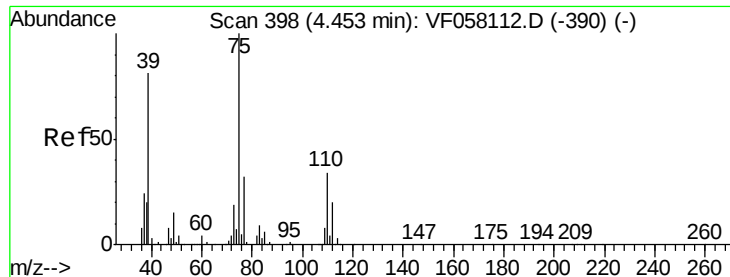


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 1.01 ug/l

RT: 4.38 min Scan# 390

Delta R.T. -0.07 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

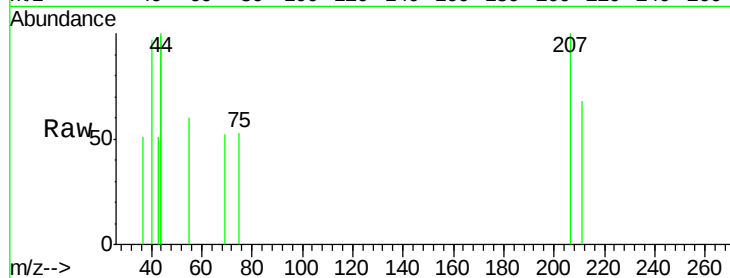
Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

110 0.0 17.0 50.9#

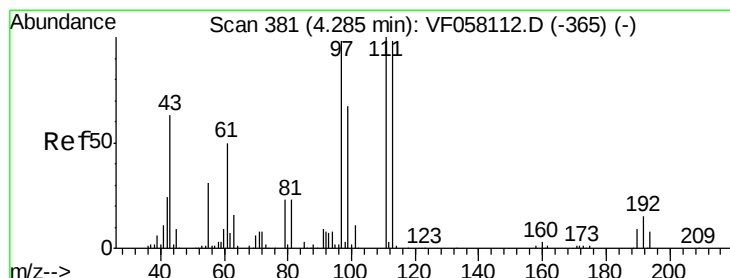
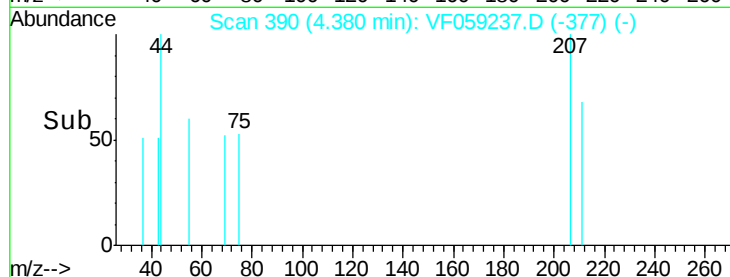
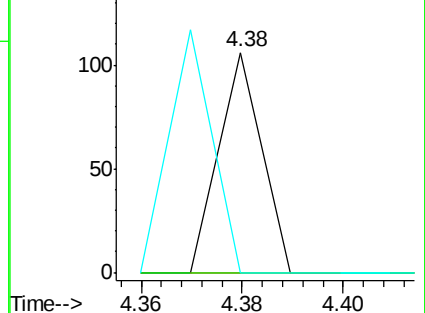
77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 6.30 ug/l

RT: 4.36 min Scan# 388

Delta R.T. 0.07 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

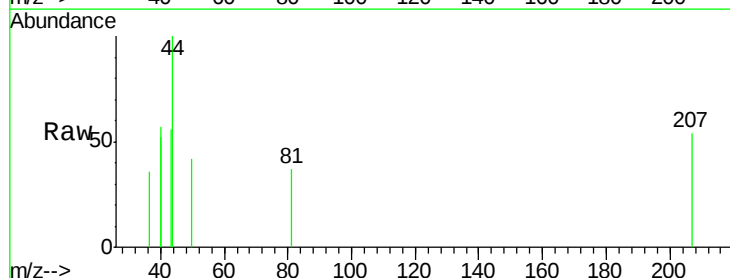
Tgt Ion: 43 Resp: 242

Ion Ratio Lower Upper

43 100

61 0.0 63.0 94.4#

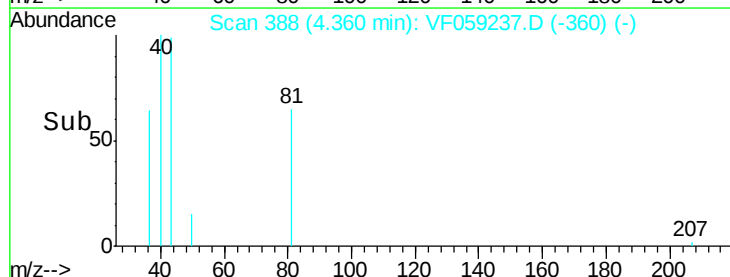
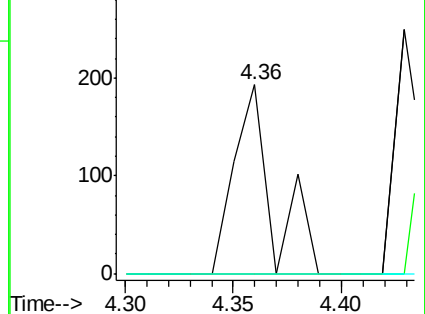
70 0.0 7.5 11.3#

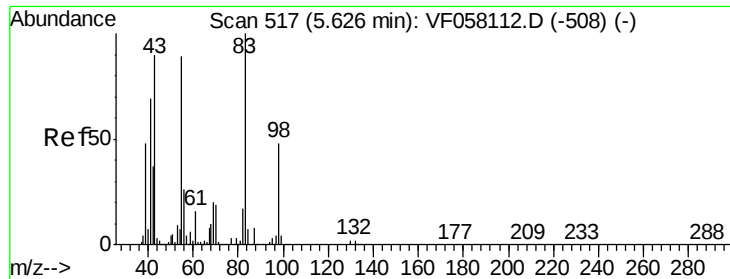


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

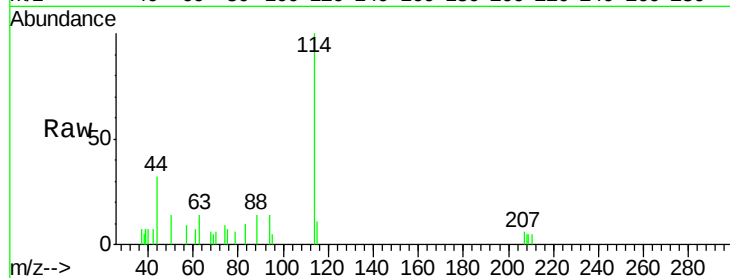




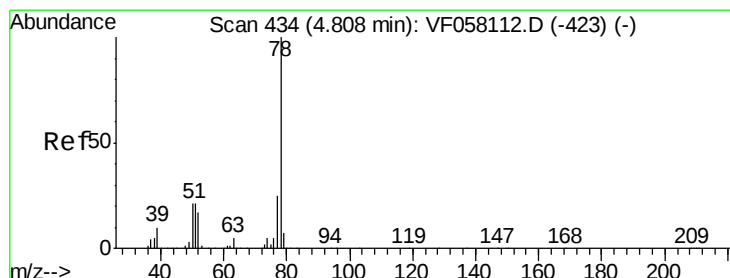
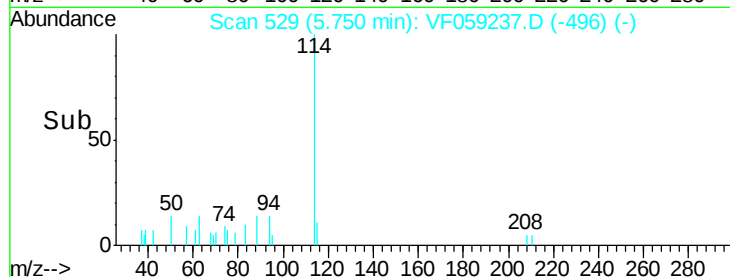
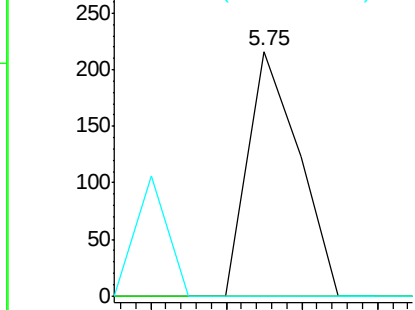
#39
Methvlcvclohexane
Concen: 3.17 ug/l
RT: 5.75 min Scan# 529
Delta R.T. 0.12 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Instrument :
MSVOA_F
ClientSampled :
TP-11-SRE

Tot Ion: 83 Resp: 201
Ion Ratio Lower Upper
83 100
55 0.0 71.0 106.4#
98 0.0 38.1 57.1#

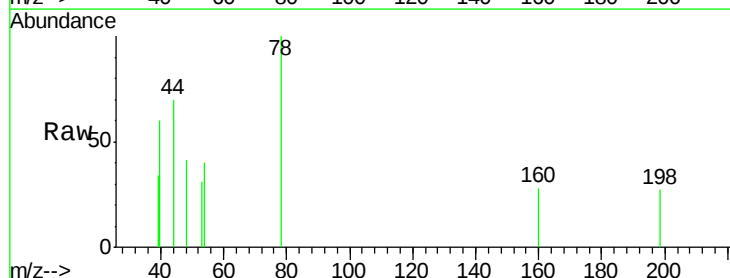


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

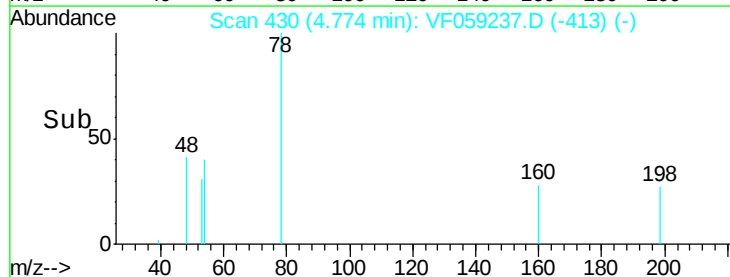
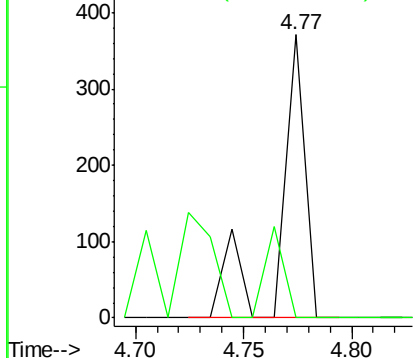


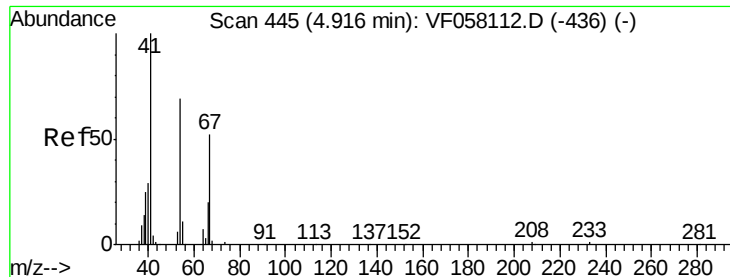
#40
Benzene
Concen: 2.00 ug/l
RT: 4.77 min Scan# 430
Delta R.T. -0.03 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Tgt Ion: 78 Resp: 289
Ion Ratio Lower Upper
78 100
77 0.0 20.2 30.2#



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

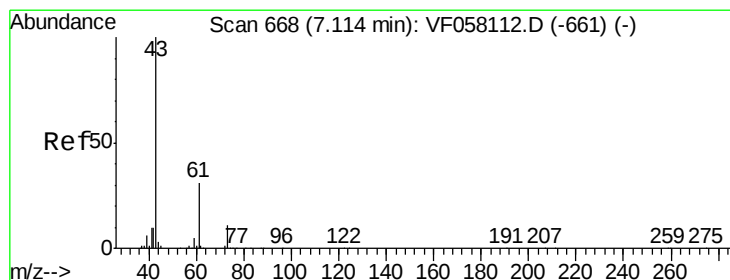
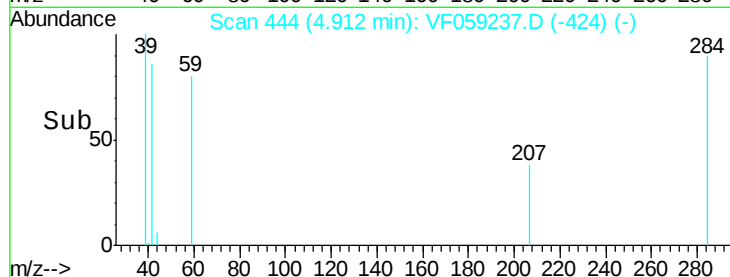
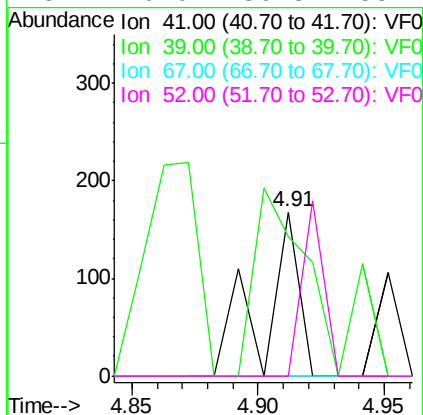
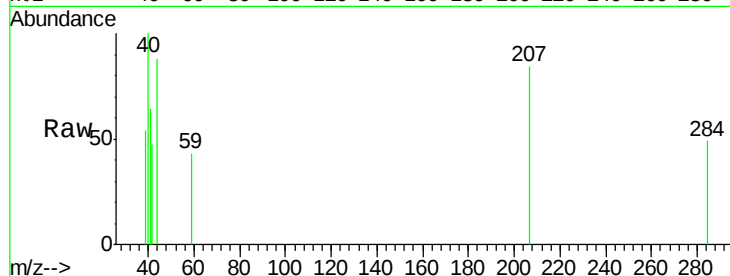




#41
Methacrylonitrile
Concen: 8.70 ug/l
RT: 4.91 min Scan# 444
Delta R.T. -0.00 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

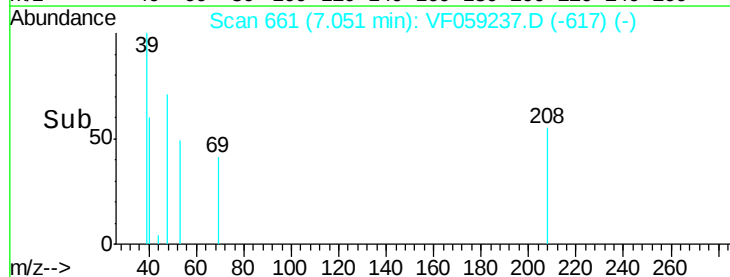
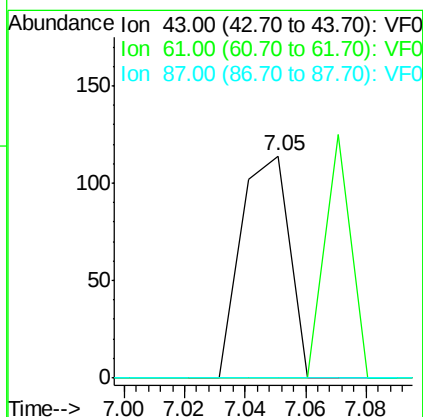
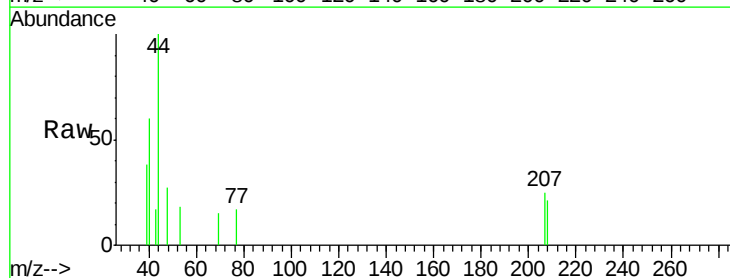
Instrument :
MSVOA_F
ClientSampleId :
TP-11-SRE

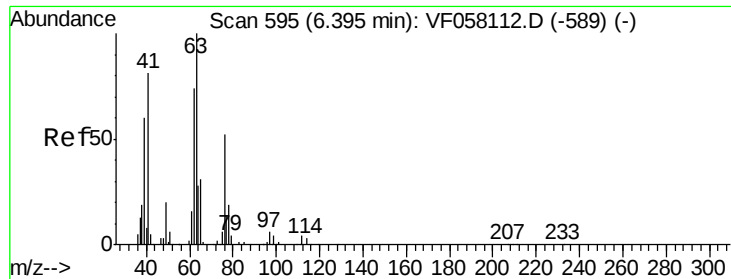
Tot Ion:	41	Resp:	164
Ion	Ratio	Lower	Upper
41	100		
39	85.1	53.0	79.4#
67	0.0	41.0	61.6#
52	0.0	36.8	55.2#



#43
Isopropyl Acetate
Concen: 2.49 ug/l
RT: 7.05 min Scan# 661
Delta R.T. -0.06 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Tgt Ion:	43	Resp:	128
Ion	Ratio	Lower	Upper
43	100		
61	0.0	25.1	37.7#
87	0.0	0.2	0.4#





#45

1,2-Dichloropropane

Concen: 1.44 ug/l

RT: 6.45 min Scan# 600

Delta R.T. 0.05 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

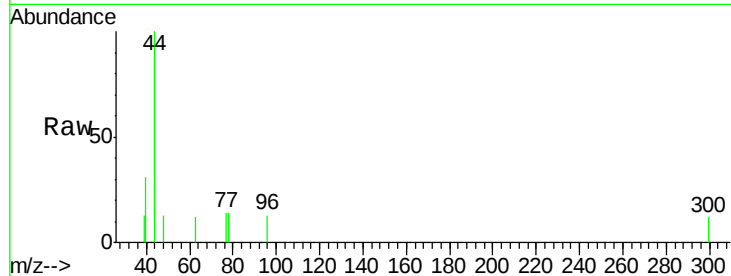
TP-11-SRE

Tot Ion: 63 Resp: 60

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.45

100

80

60

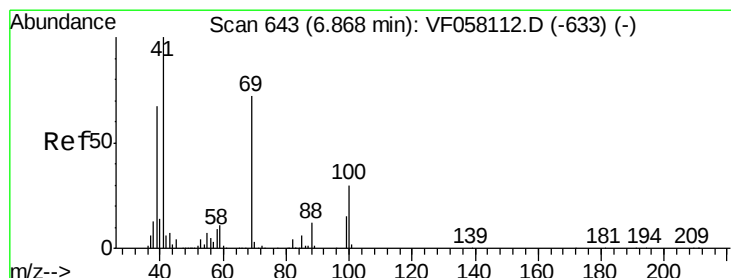
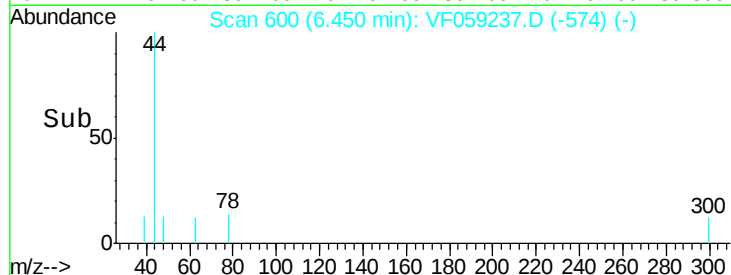
40

20

0

6.42 6.44 6.46 6.48

Time-->



#48

Methyl methacrylate

Concen: 13.22 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

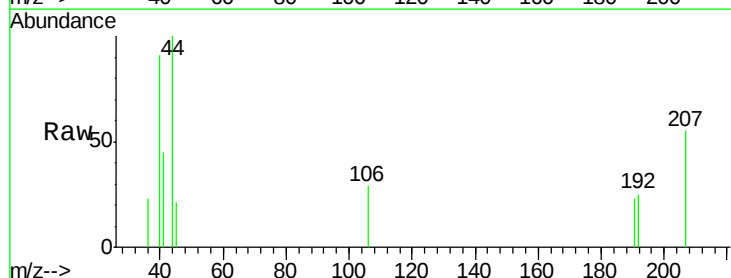
Tgt Ion: 41 Resp: 419

Ion Ratio Lower Upper

41 100

69 0.0 57.2 85.8#

39 0.0 54.3 81.5#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

300

250

200

150

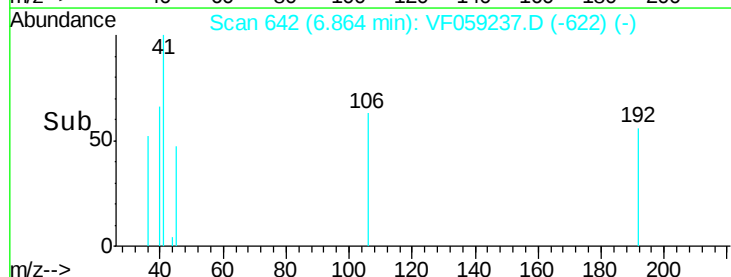
100

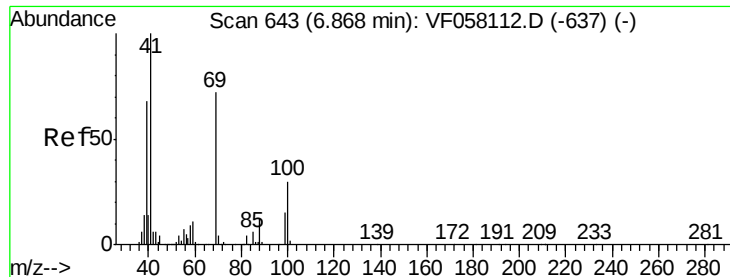
50

0

6.80 6.85 6.90

Time-->





#49

1,4-Dioxane

Concen: 253.29 ug/l

RT: 6.81 min Scan# 637

Delta R.T. -0.05 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampled :

TP-11-SRE

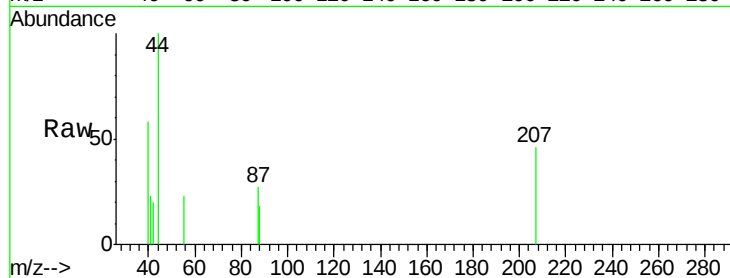
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 47.8 71.8#

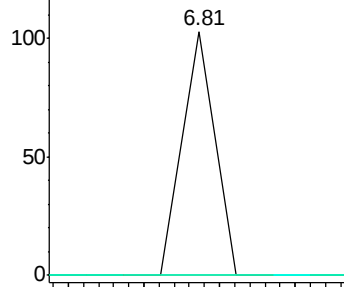
58 0.0 59.4 89.0#



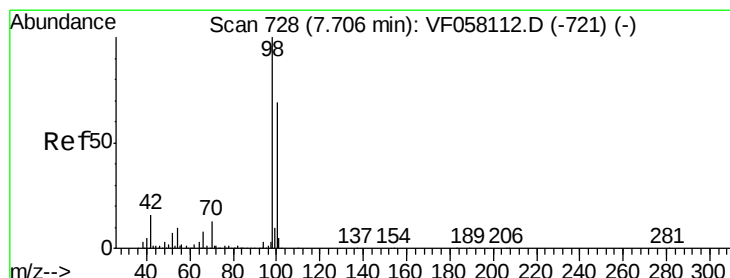
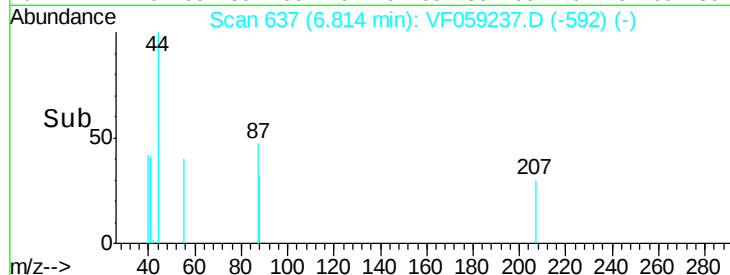
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 43.39 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059237.D

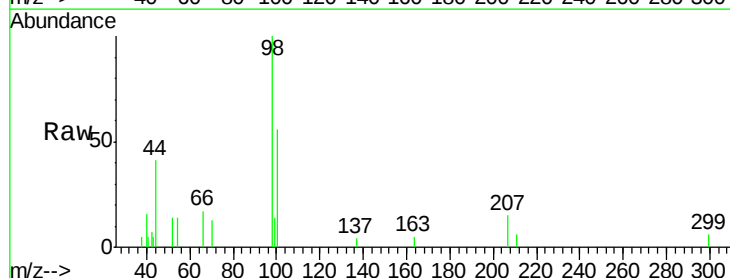
Acq: 20 Jun 2018 20:31

Tgt Ion: 98 Resp: 5733

Ion Ratio Lower Upper

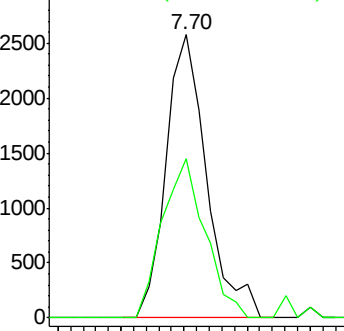
98 100

100 56.4 55.6 83.4

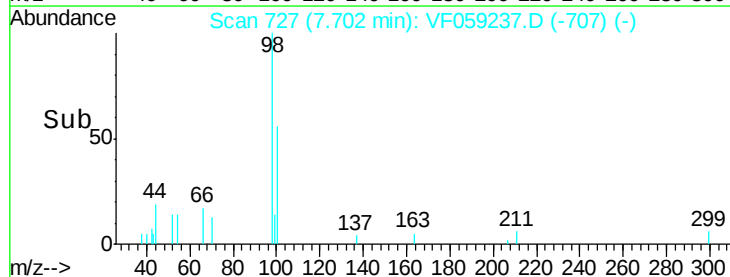


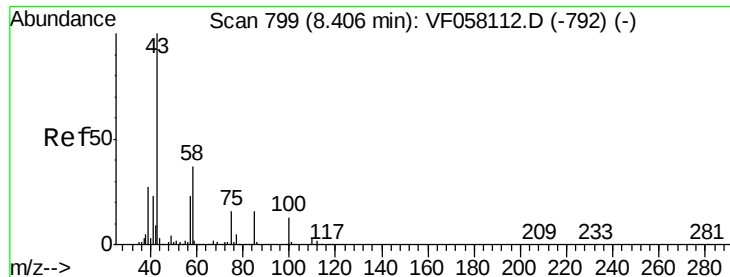
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 6.93 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

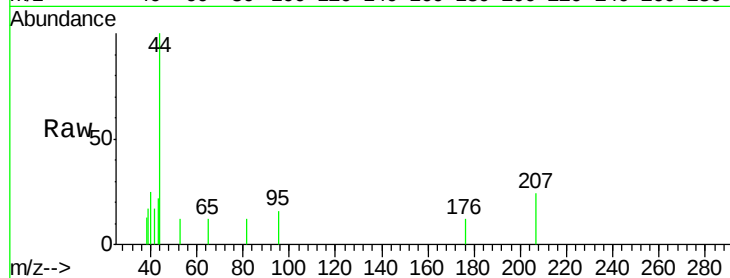
TP-11-SRE

Tot Ion: 43 Resp: 244

Ion Ratio Lower Upper

43 100

58 0.0 29.4 44.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.39

150

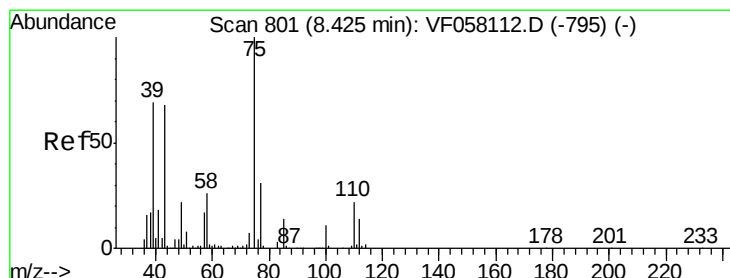
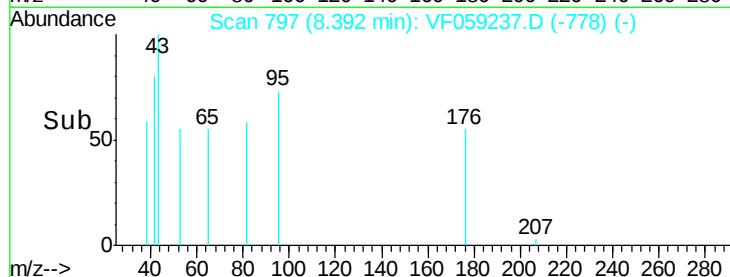
100

50

0

8.35 8.40

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.10 ug/l

RT: 8.48 min Scan# 806

Delta R.T. 0.05 min

Lab File: VF059237.D

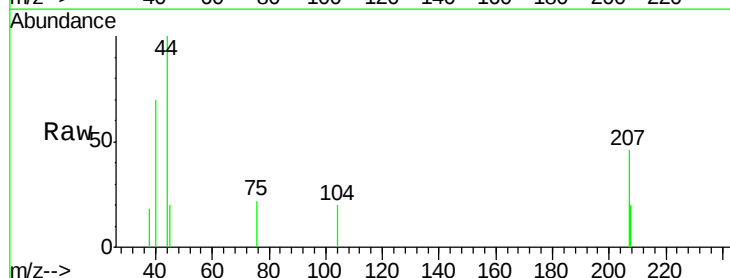
Acq: 20 Jun 2018 20:31

Tgt Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.48

150

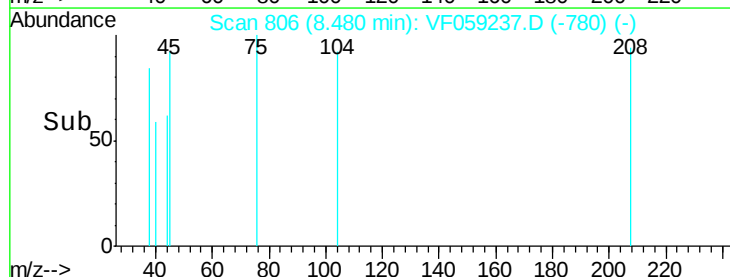
100

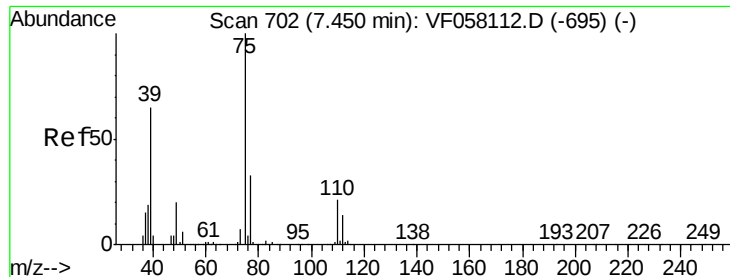
50

0

8.46 8.48 8.50

Time-->





#54

cis-1,3-Dichloropropene

Concen: 1.28 ug/l

RT: 7.44 min Scan# 700

Delta R.T. -0.01 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

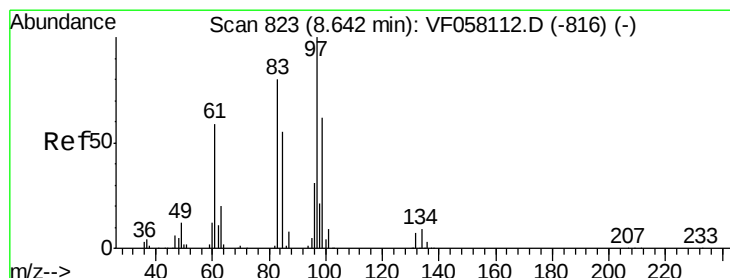
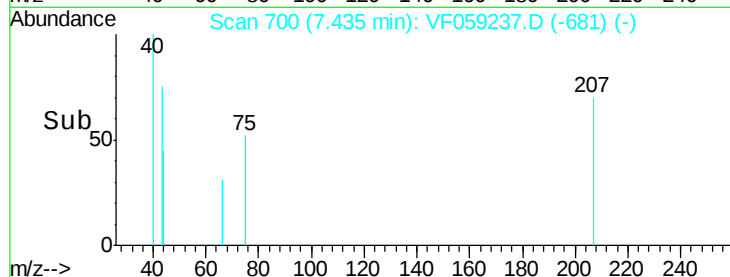
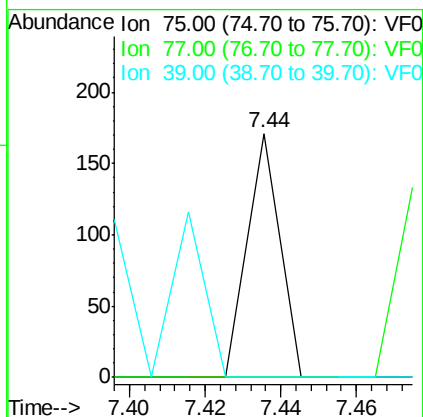
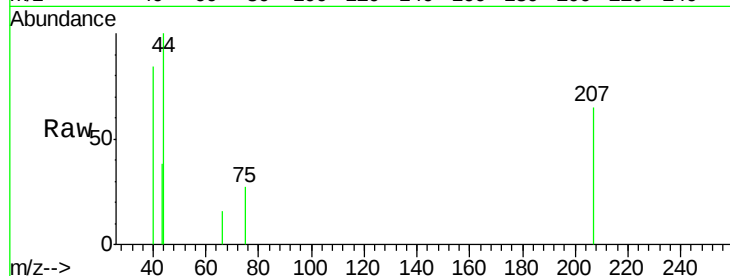
Tot Ion: 75 Resp: 101

Ion Ratio Lower Upper

75 100

77 0.0 26.3 39.5#

39 0.0 52.1 78.1#



#55

1,1,2-Trichloroethane

Concen: 1.91 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.12 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Tgt Ion: 97 Resp: 72

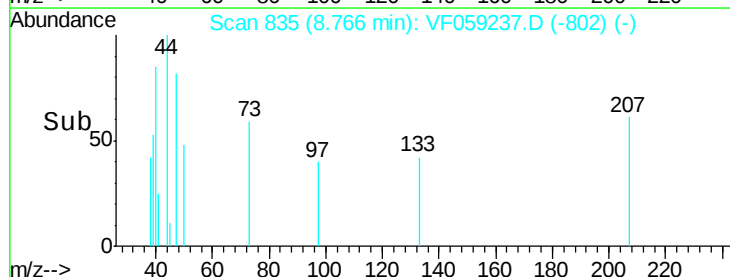
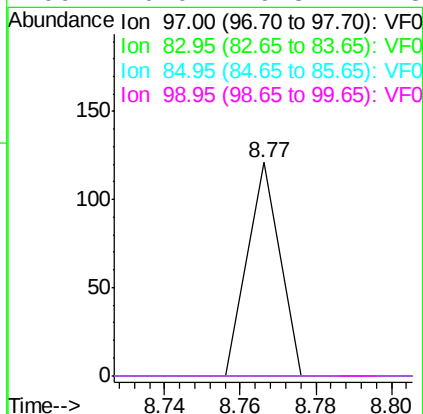
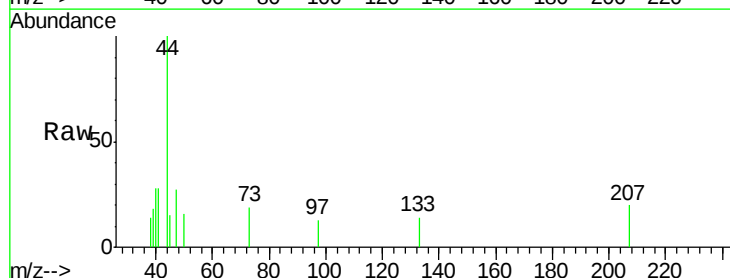
Ion Ratio Lower Upper

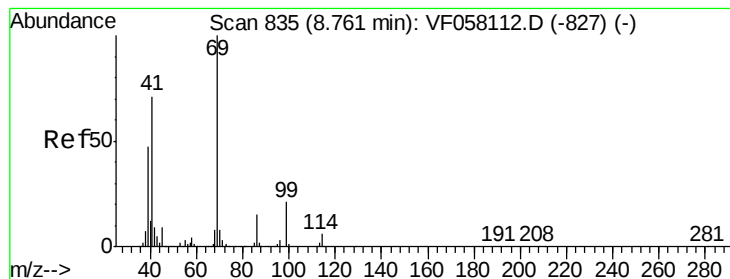
97 100

83 0.0 64.3 96.5#

85 0.0 43.8 65.8#

99 0.0 49.8 74.8#





#56

Ethyl methacrylate

Concen: 1.26 ug/l

RT: 8.76 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

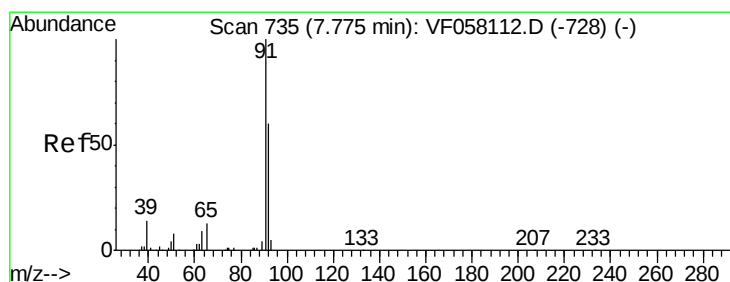
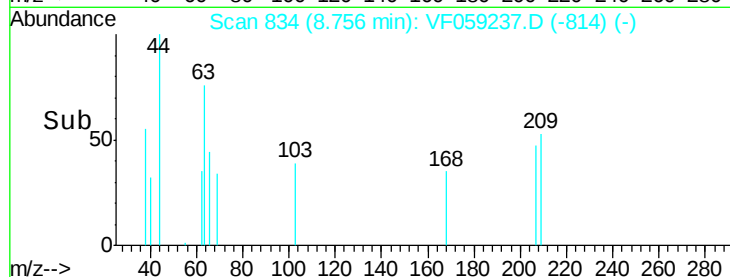
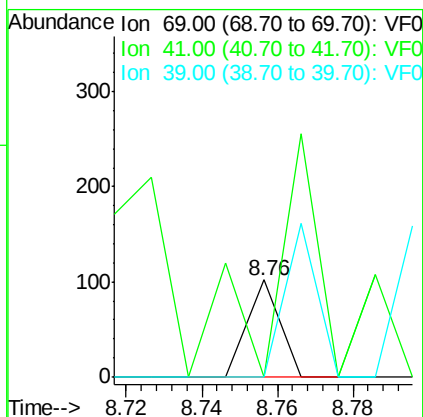
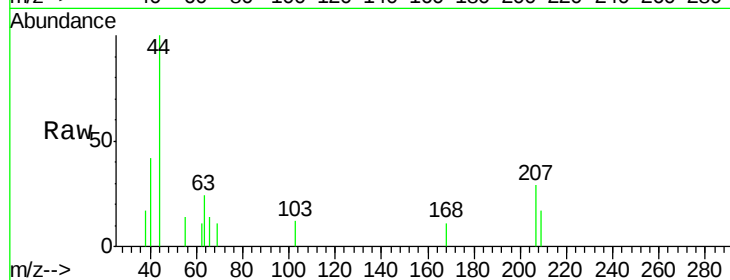
Tot Ion: 69 Resp: 60

Ion Ratio Lower Upper

69 100

41 0.0 56.9 85.3#

39 0.0 38.0 57.0#



#58

2-Chloroethyl Vinyl ether

Concen: 17.98 ug/l

RT: 7.73 min Scan# 730

Delta R.T. -0.04 min

Lab File: VF059237.D

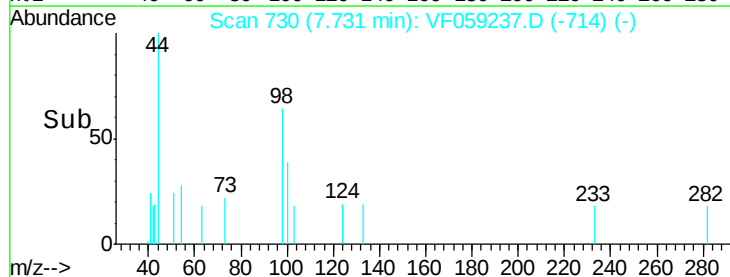
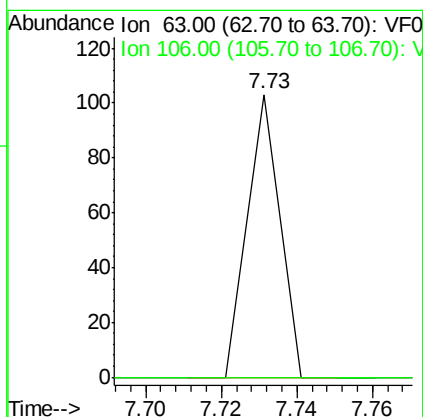
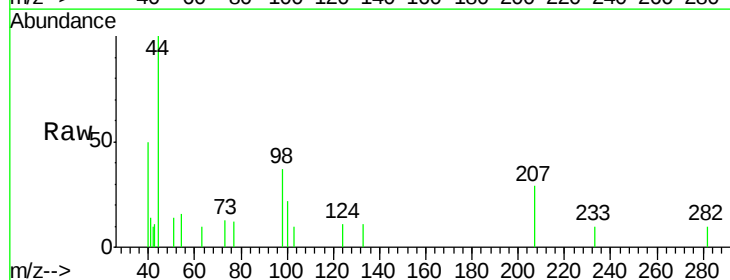
Acq: 20 Jun 2018 20:31

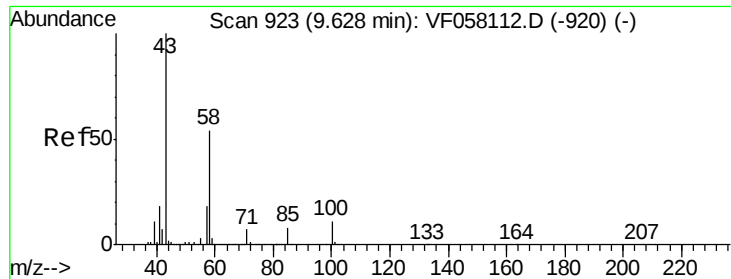
Tgt Ion: 63 Resp: 61

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

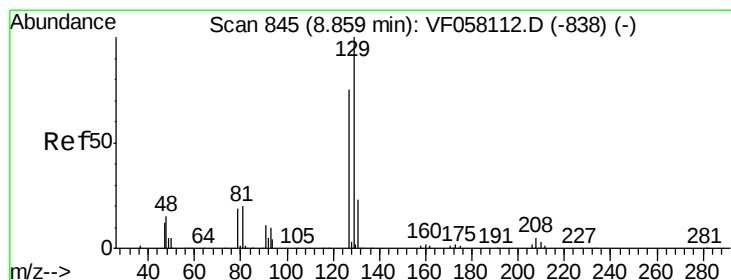
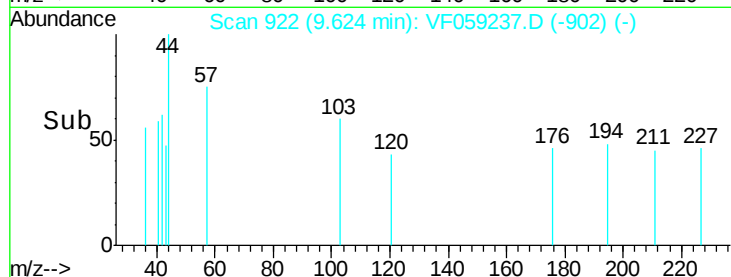
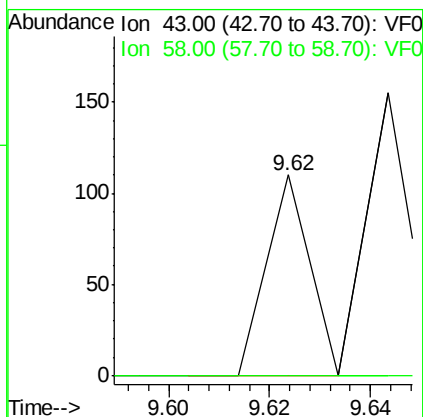
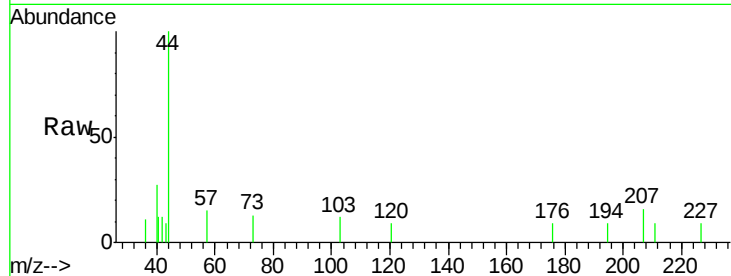




#59
2-Hexanone
Concen: 2.33 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

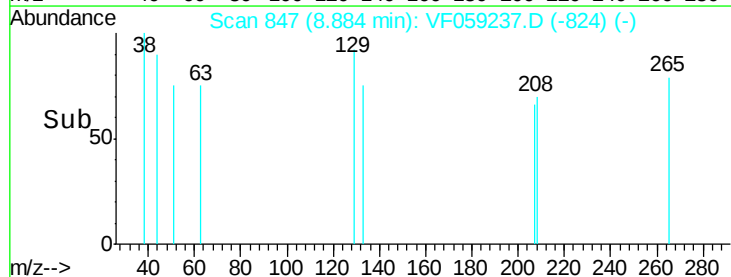
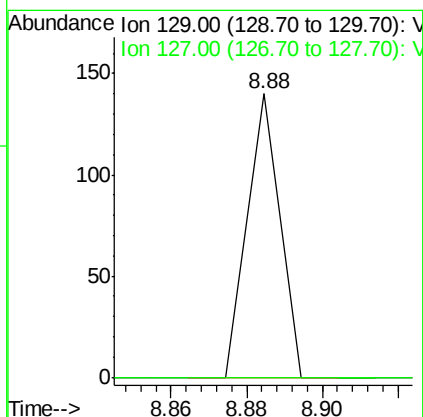
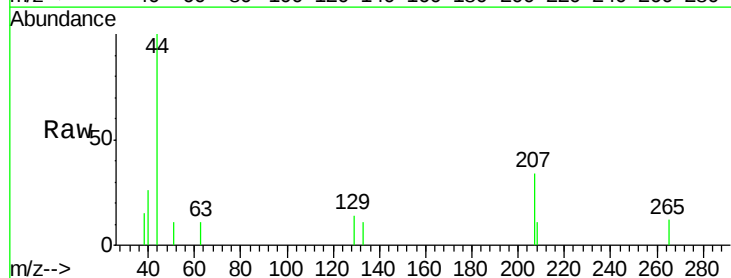
Instrument :
MSVOA_F
ClientSampleId :
TP-11-SRE

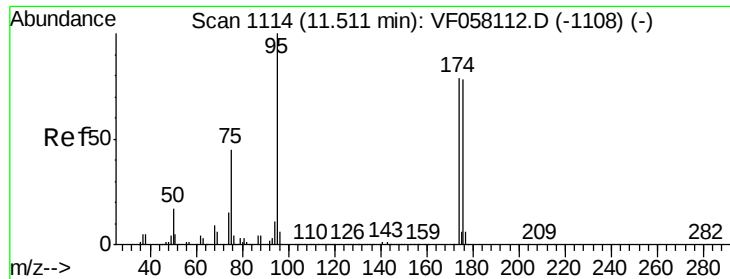
Tot Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#



#60
Dibromochloromethane
Concen: 1.53 ug/l
RT: 8.88 min Scan# 847
Delta R.T. 0.03 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Tgt Ion: 129 Resp: 83
Ion Ratio Lower Upper
129 100
127 0.0 37.6 112.9#

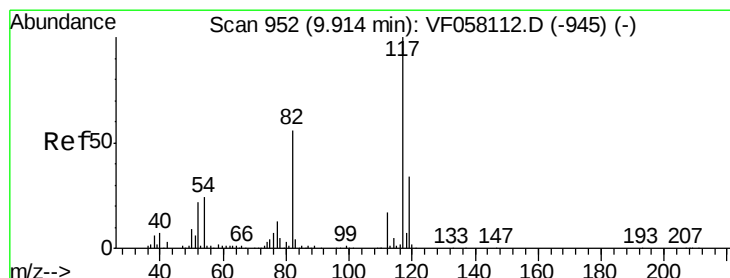
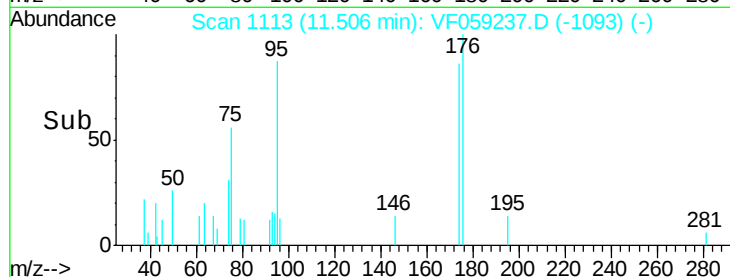
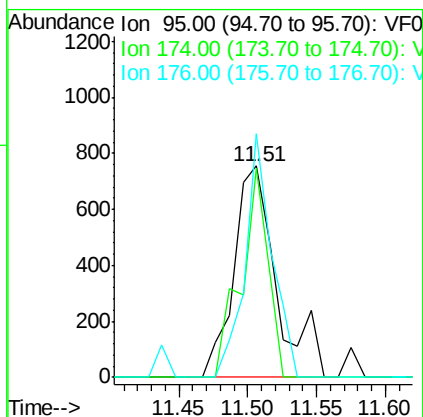
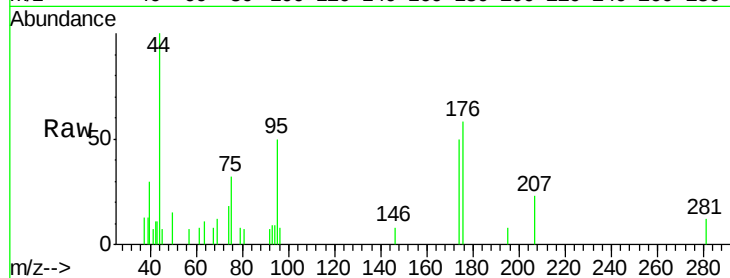




#62
4-Bromofluorobenzene
Concen: 23.98 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

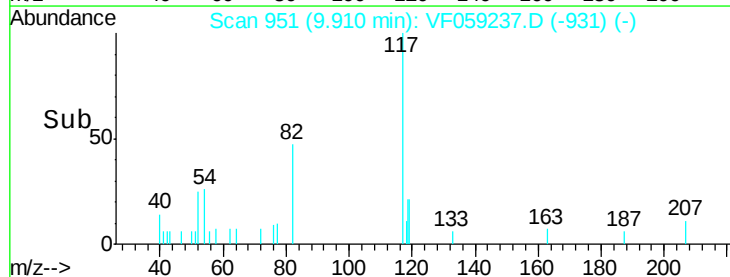
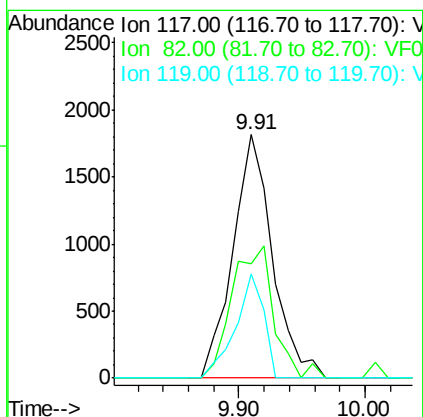
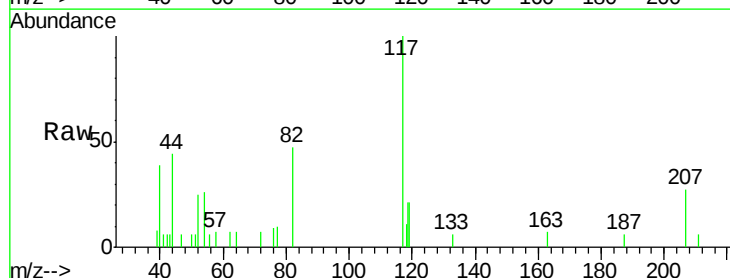
Instrument :
MSVOA_F
ClientSampleId :
TP-11-SRE

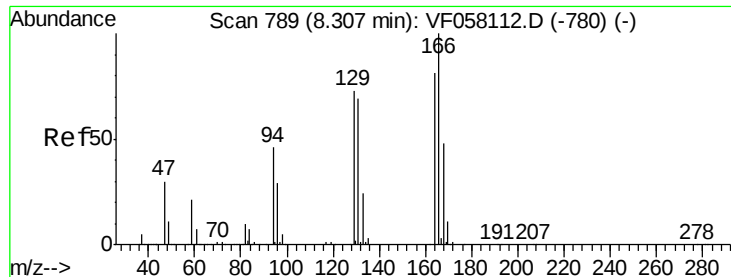
Tot Ion: 95 Resp: 1625
Ion Ratio Lower Upper
95 100
174 99.1 0.0 157.8
176 115.3 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Tgt Ion: 117 Resp: 3942
Ion Ratio Lower Upper
117 100
82 47.0 45.2 67.8
119 42.5 27.5 41.3#

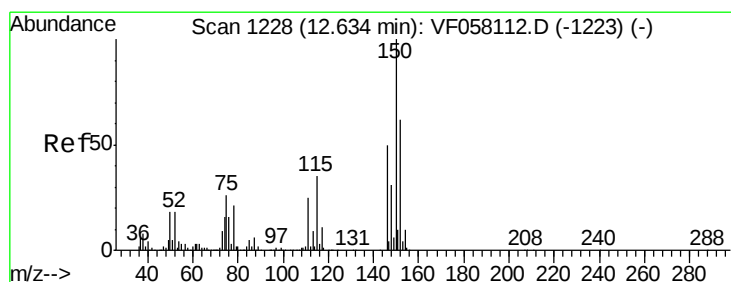
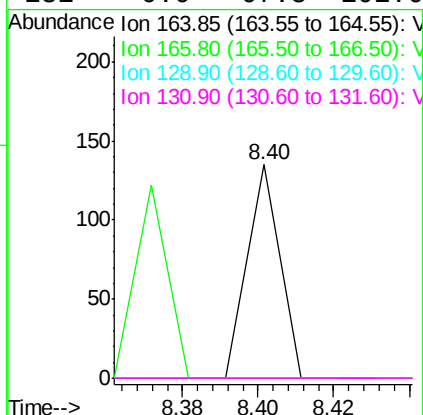
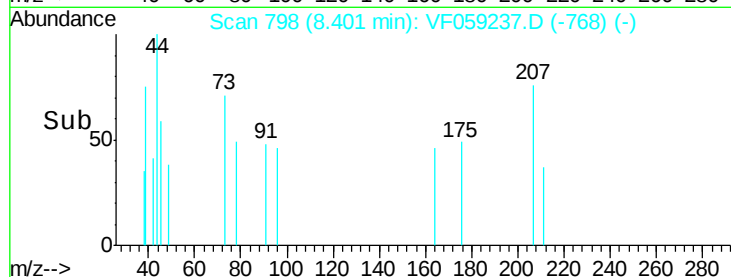
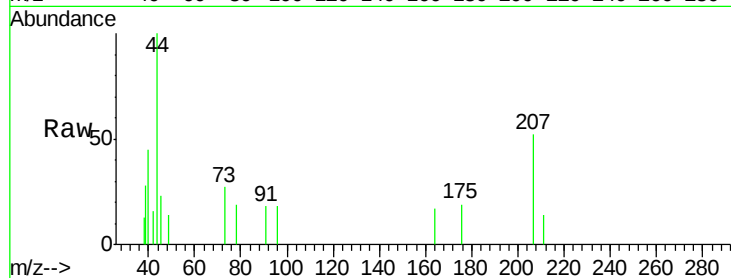




#64
Tetrachloroethene
Concen: 2.77 ug/l
RT: 8.40 min Scan# 798
Delta R.T. 0.09 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

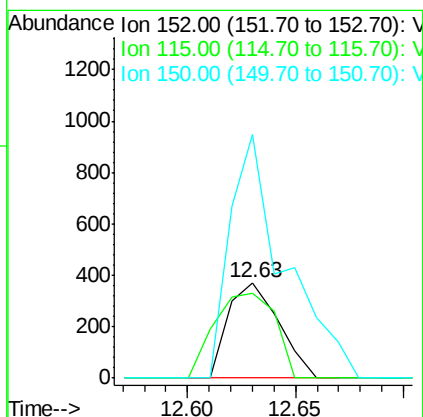
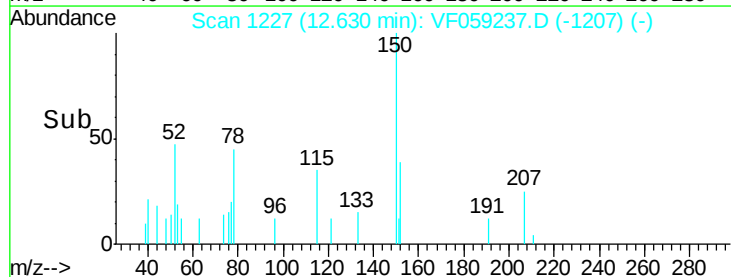
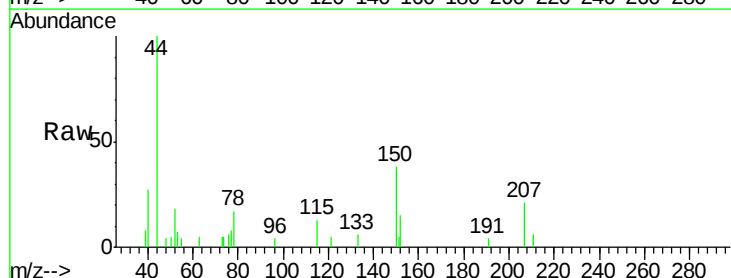
Instrument :
MSVOA_F
ClientSampleId :
TP-11-SRE

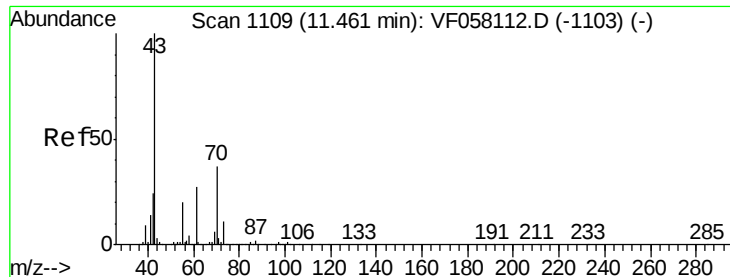
Tot Ion:	164	Resp:	80
Ion	Ratio	Lower	Upper
164	100		
166	0.0	98.2	147.4#
129	0.0	71.6	107.4#
131	0.0	67.8	101.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Tgt Ion:	152	Resp:	610
Ion	Ratio	Lower	Upper
152	100		
115	89.5	28.5	85.5#
150	254.6	0.0	323.8





#74

N-amvl acetate

Concen: 10.61 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

Tot Ion: 43 Resp: 160

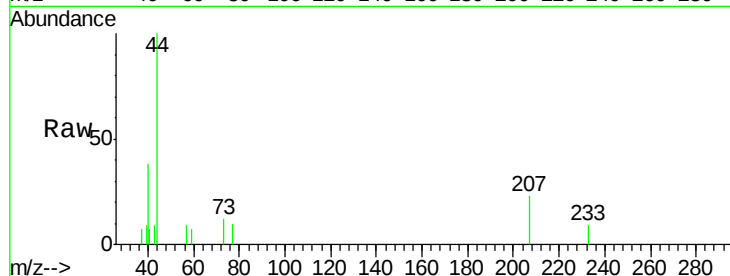
Ion Ratio Lower Upper

43 100

70 0.0 29.2 43.8#

55 0.0 15.8 23.6#

61 0.0 21.3 31.9#

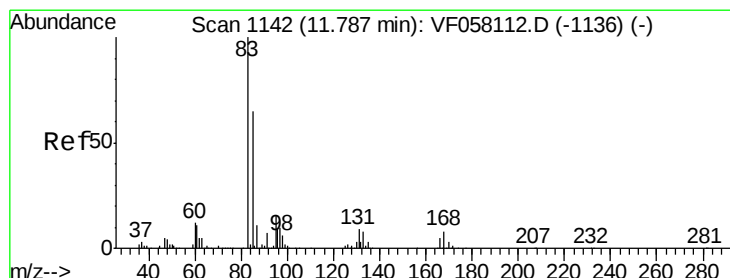
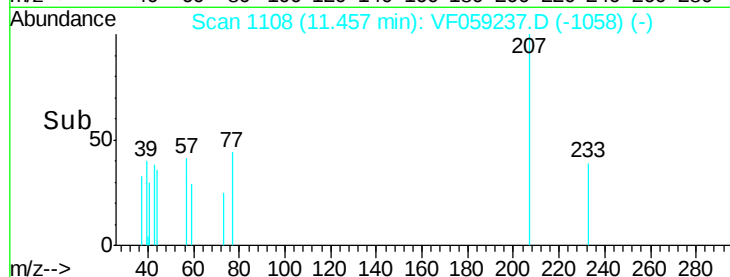
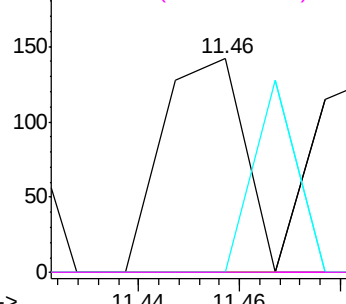


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#75

1,1,2,2-Tetrachloroethane

Concen: 7.19 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.11 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

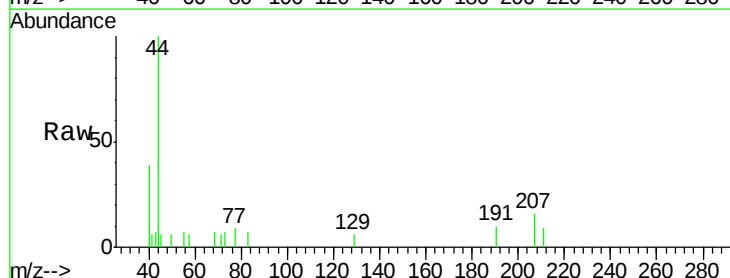
Tgt Ion: 83 Resp: 72

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.7#

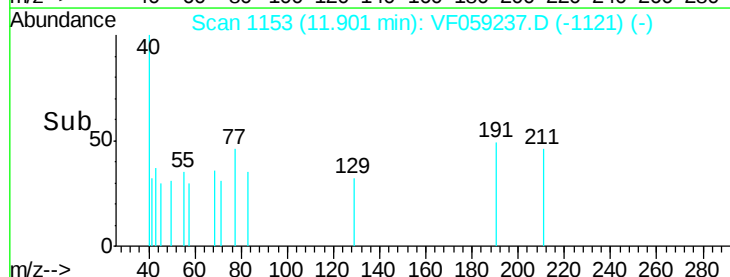
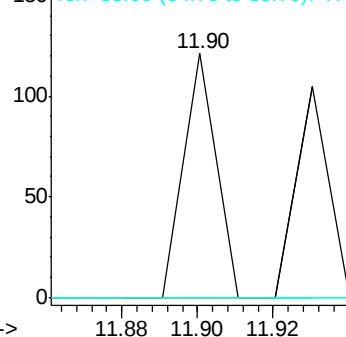
85 0.0 32.8 98.3#

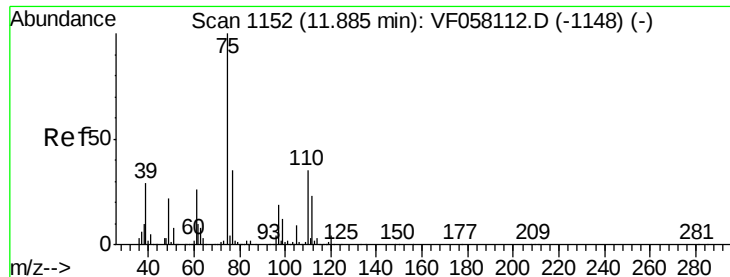


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 8.25 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. 0.05 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampled :

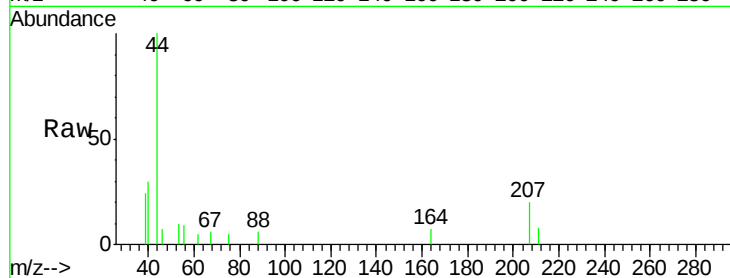
TP-11-SRE

Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

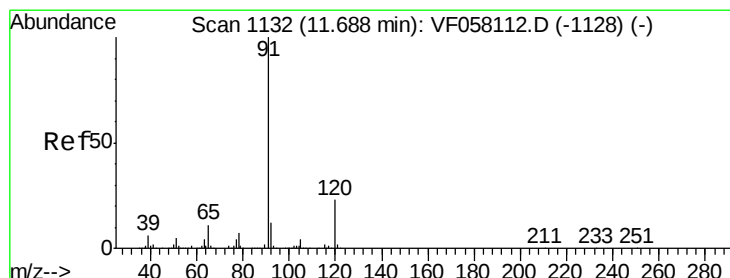
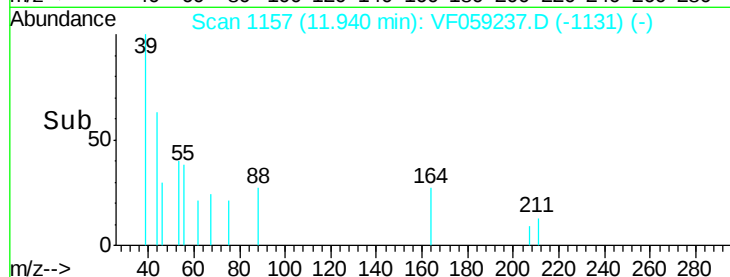
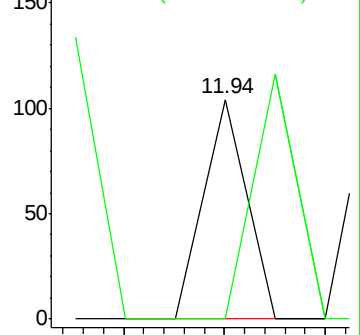
75 100

77 0.0 17.5 52.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#78

n-propylbenzene

Concen: 1.24 ug/l

RT: 11.62 min Scan# 1125

Delta R.T. -0.06 min

Lab File: VF059237.D

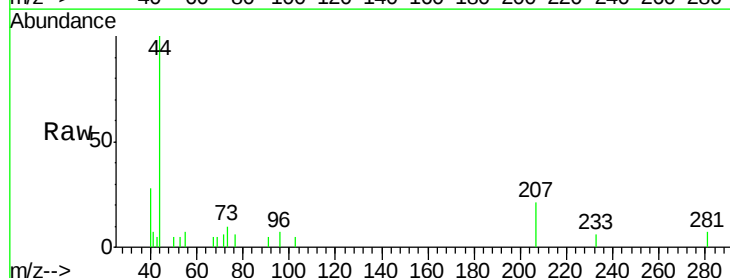
Acq: 20 Jun 2018 20:31

Tgt Ion: 91 Resp: 62

Ion Ratio Lower Upper

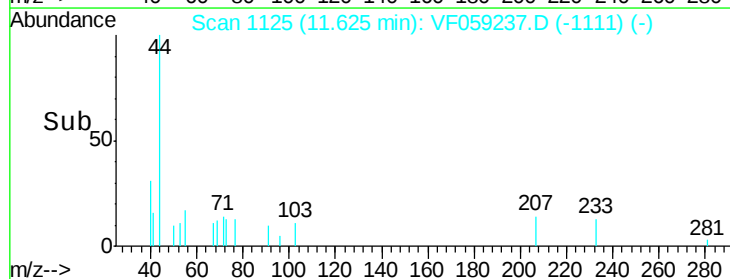
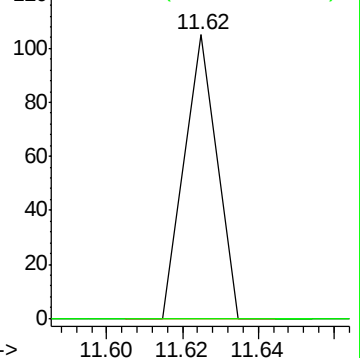
91 100

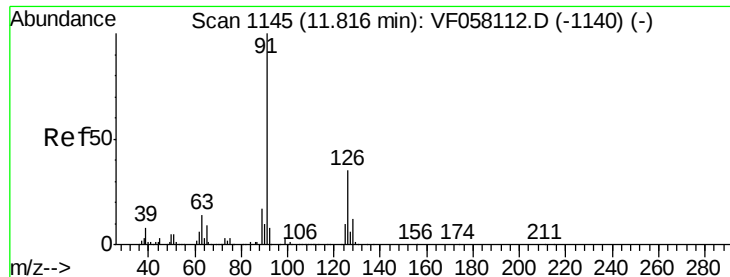
120 0.0 11.5 34.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.84 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.14 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

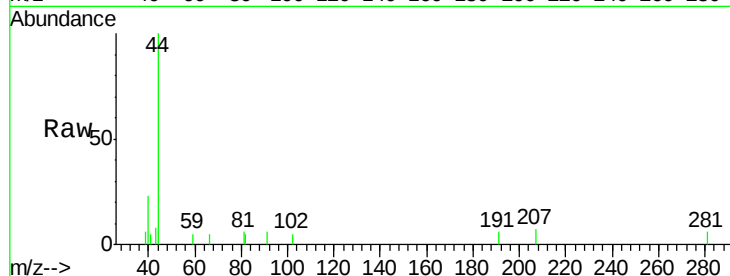
TP-11-SRE

Tot Ion: 91 Resp: 143

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.96

11.96

11.96

11.96

11.96

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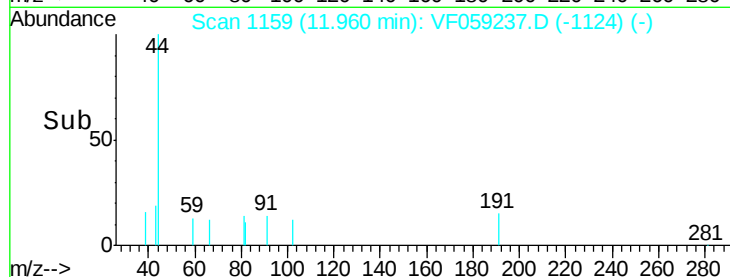
11.96

11.96

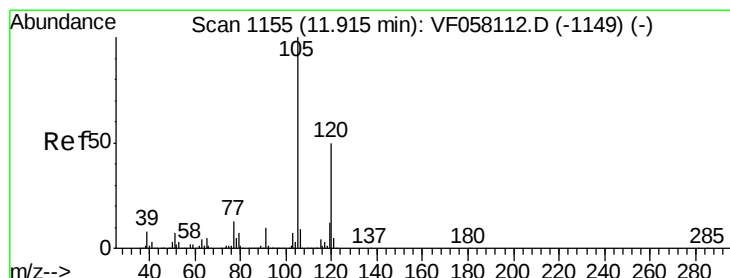
11.96

11.96

11.96



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.72 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.09 min

Lab File: VF059237.D

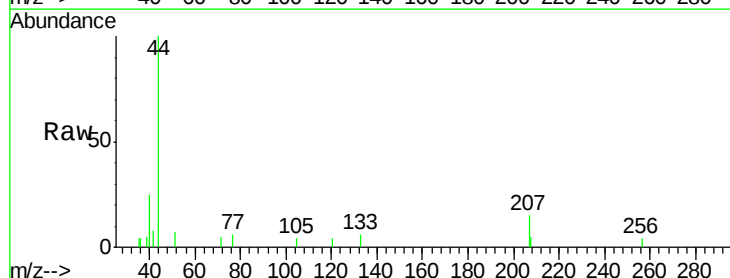
Acq: 20 Jun 2018 20:31

Tgt Ion:105 Resp: 60

Ion Ratio Lower Upper

105 100

120 103.9 24.9 74.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.82

11.82

11.82

11.82

11.82

11.82

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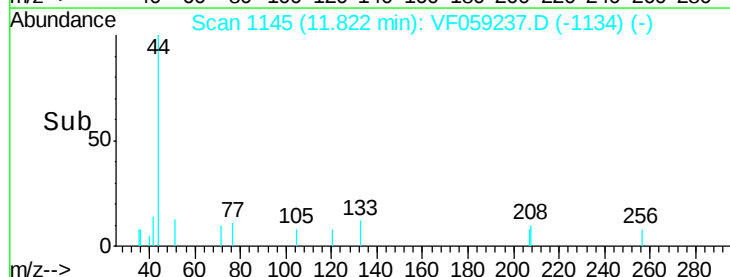
11.82

11.82

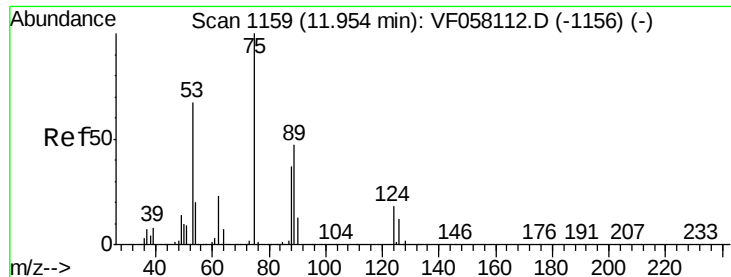
11.82

11.82

11.82



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 12.72 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampled :

TP-11-SRE

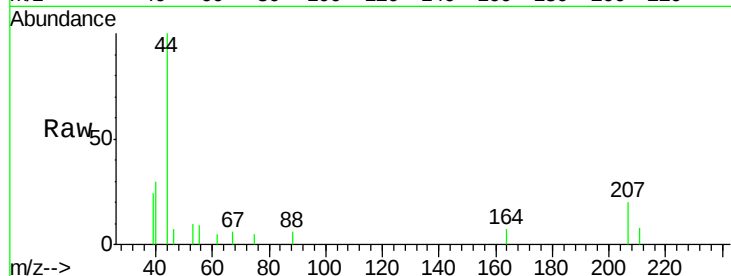
Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

53 187.5 58.7 88.1#

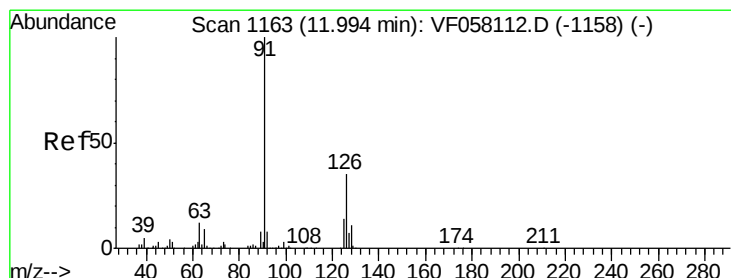
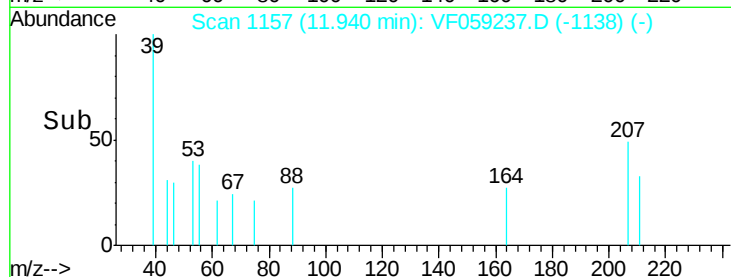
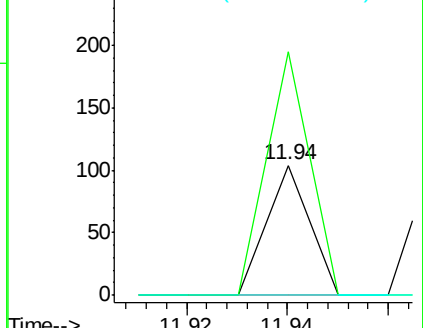
89 0.0 39.8 59.6#



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



#82

4-Chlorotoluene

Concen: 4.55 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. -0.03 min

Lab File: VF059237.D

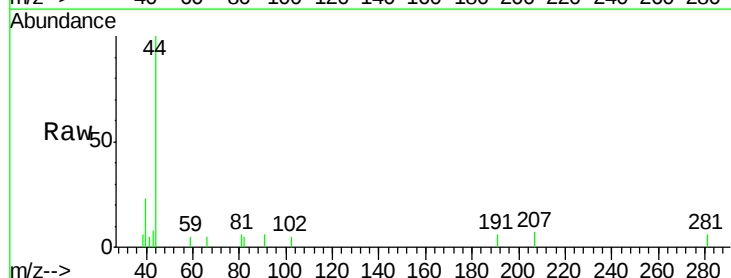
Acq: 20 Jun 2018 20:31

Tgt Ion: 91 Resp: 143

Ion Ratio Lower Upper

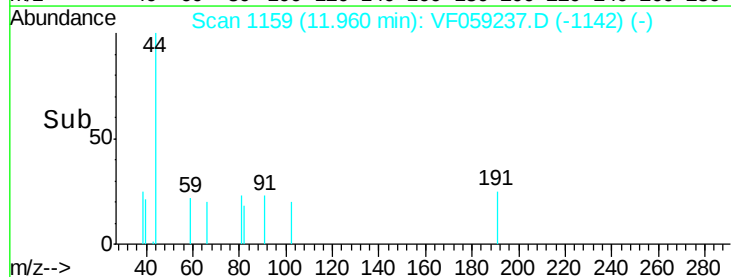
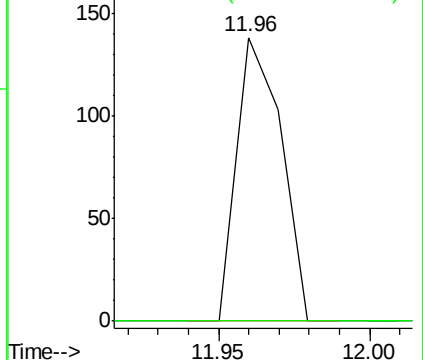
91 100

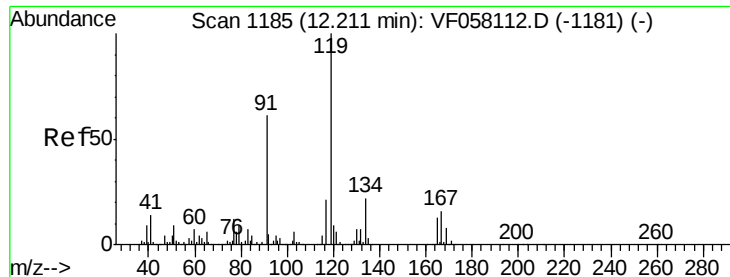
126 0.0 17.4 52.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 1.82 ug/l

RT: 12.16 min Scan# 1179

Delta R.T. -0.05 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampled :

TP-11-SRE

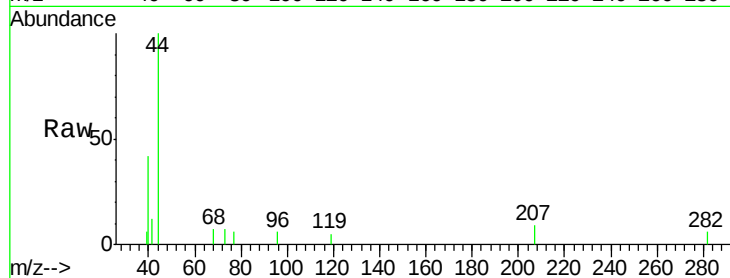
Tot Ion:119 Resp: 63

Ion Ratio Lower Upper

119 100

91 0.0 30.4 91.3#

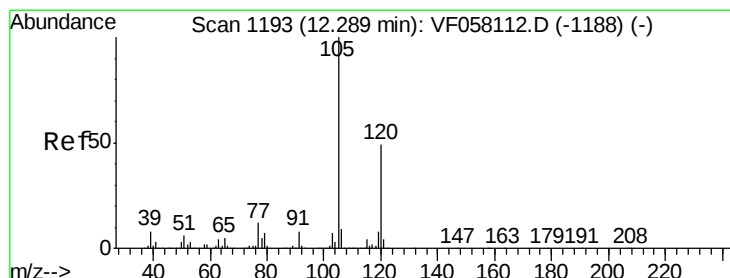
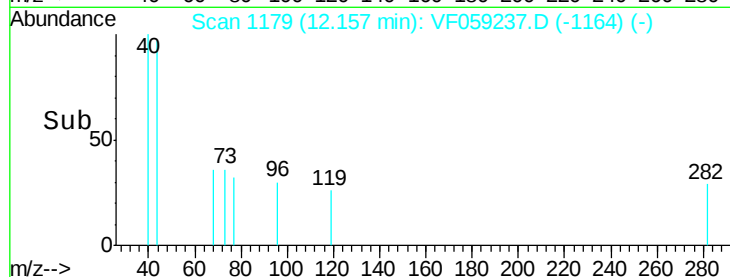
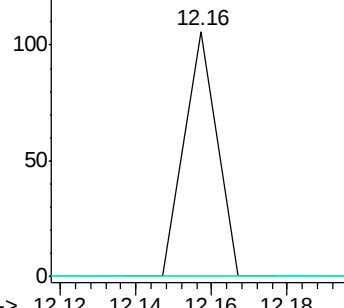
134 0.0 11.2 33.5#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1.74 ug/l

RT: 12.40 min Scan# 1204

Delta R.T. 0.11 min

Lab File: VF059237.D

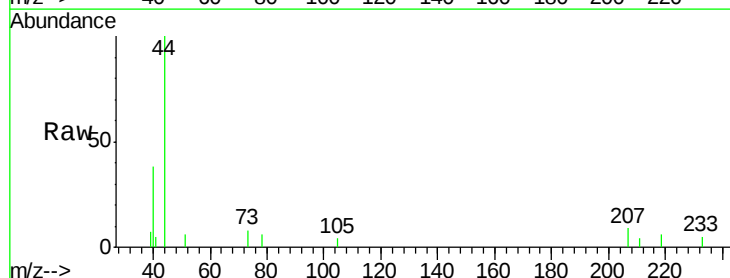
Acq: 20 Jun 2018 20:31

Tgt Ion:105 Resp: 63

Ion Ratio Lower Upper

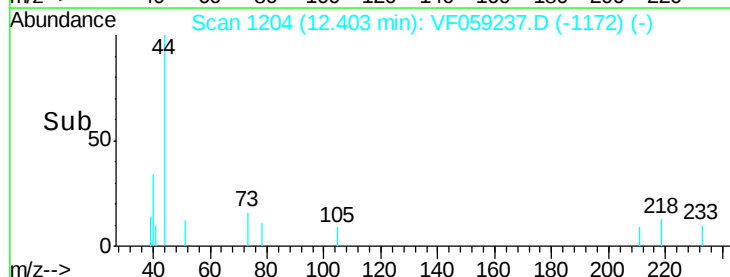
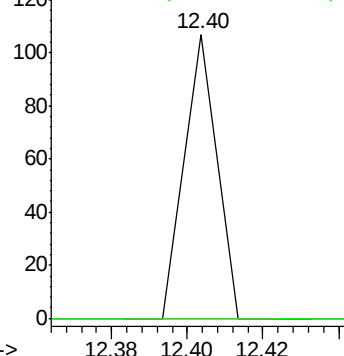
105 100

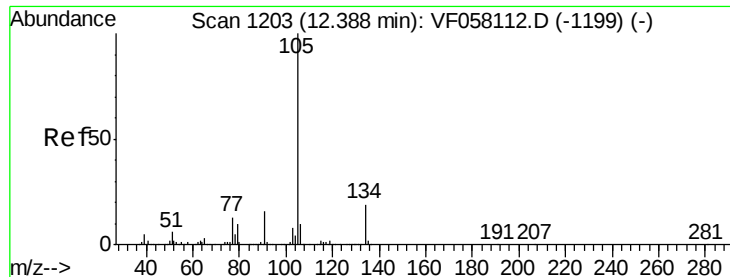
120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.34 ug/l

RT: 12.40 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

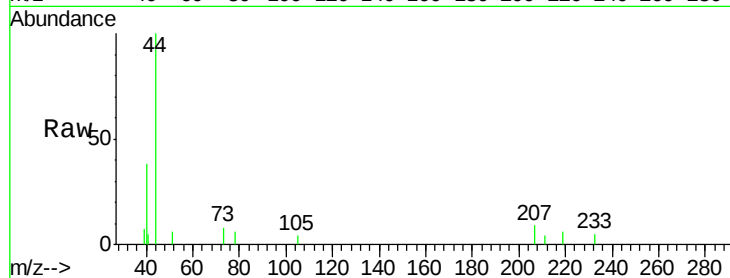
TP-11-SRE

Tot Ion:105 Resp: 63

Ion Ratio Lower Upper

105 100

134 0.0 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.40

100

80

60

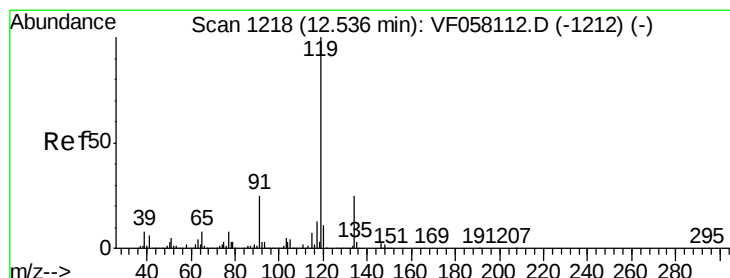
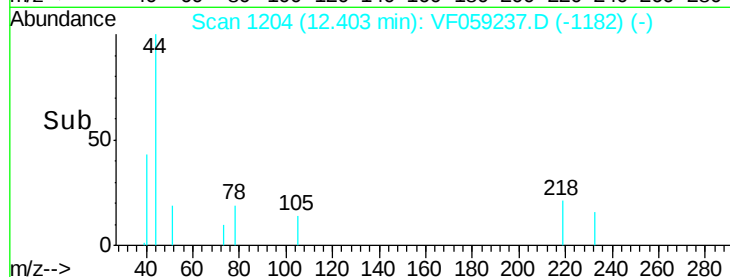
40

20

0

Time-->

12.38 12.40 12.42



#86

p-Isopropyltoluene

Concen: 1.63 ug/l

RT: 12.48 min Scan# 1212

Delta R.T. -0.05 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

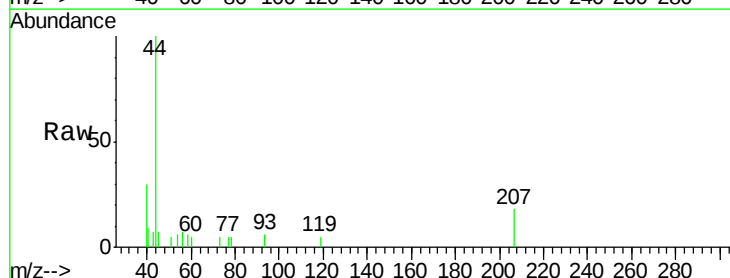
Tgt Ion:119 Resp: 63

Ion Ratio Lower Upper

119 100

134 0.0 12.7 38.0#

91 0.0 12.6 37.6#



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

150

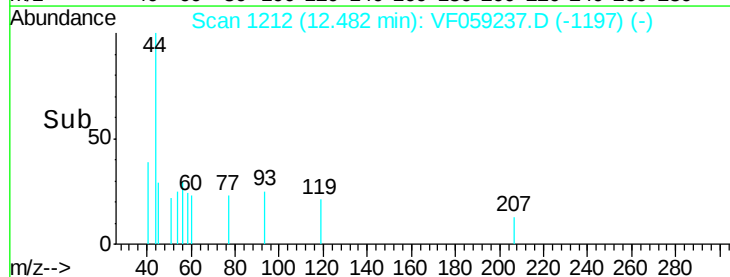
100

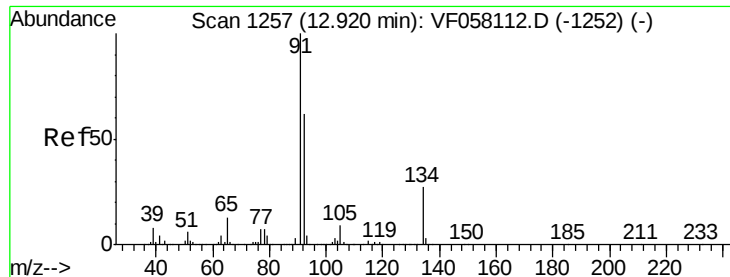
50

0

Time-->

12.46 12.48 12.50

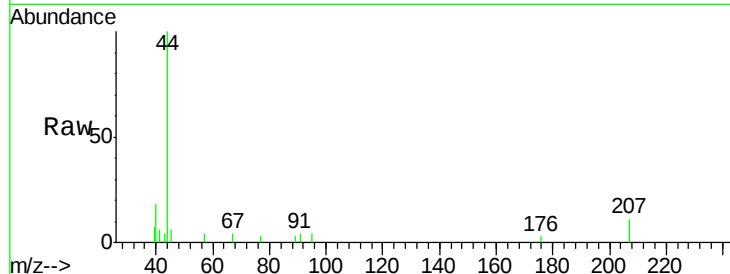




#89
n-Butylbenzene
Concen: 2.87 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. 0.07 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

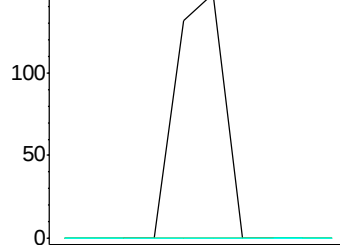
Instrument :
MSVOA_F
ClientSampleId :
TP-11-SRE

Tot Ion: 91 Resp: 166
Ion Ratio Lower Upper
91 100
92 0.0 31.1 93.5#
134 0.0 13.6 40.8#

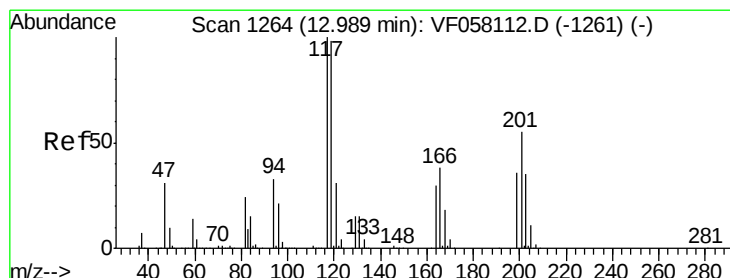
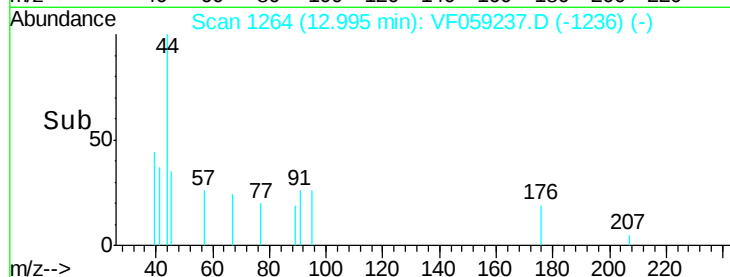


Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 92.00 (91.70 to 92.70): VF0
Ion 134.00 (133.70 to 134.70): V

12.99

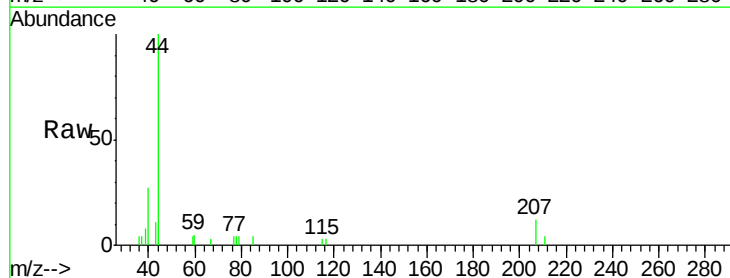


Time--> 12.95 13.00



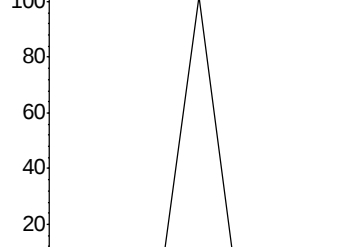
#90
Hexachloroethane
Concen: 6.29 ug/l
RT: 12.85 min Scan# 1249
Delta R.T. -0.14 min
Lab File: VF059237.D
Acq: 20 Jun 2018 20:31

Tgt Ion: 117 Resp: 60
Ion Ratio Lower Upper
117 100
201 0.0 27.5 82.4#

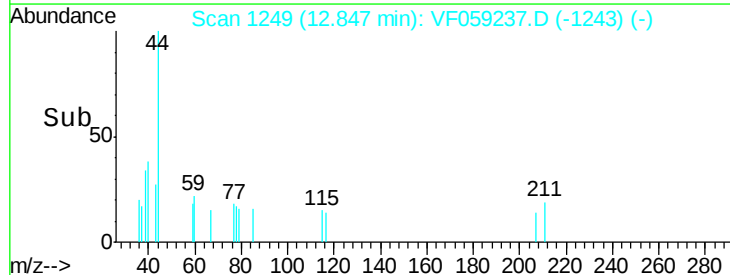


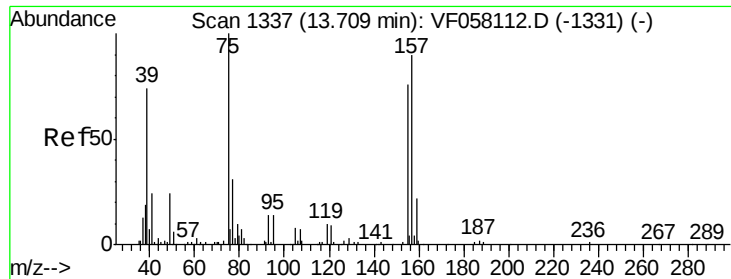
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V

12.85



Time--> 12.82 12.84 12.86





#92

1,2-Dibromo-3-Chloropropane

Concen: 38.19 ug/l

RT: 13.65 min Scan# 1330

Delta R.T. -0.06 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

Instrument :

MSVOA_F

ClientSampleId :

TP-11-SRE

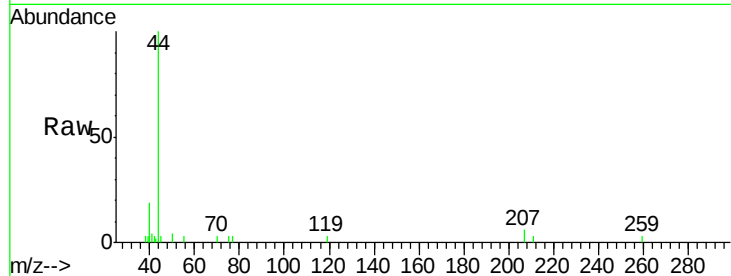
Tot Ion: 75 Resp: 75

Ion Ratio Lower Upper

75 100

155 0.0 38.0 114.0#

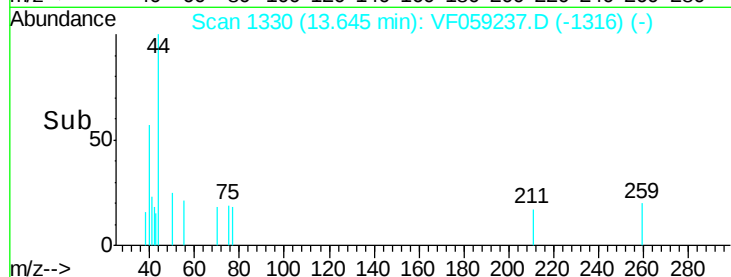
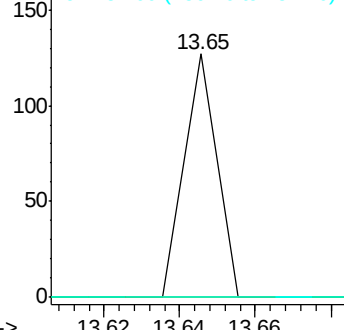
157 0.0 45.1 135.5#



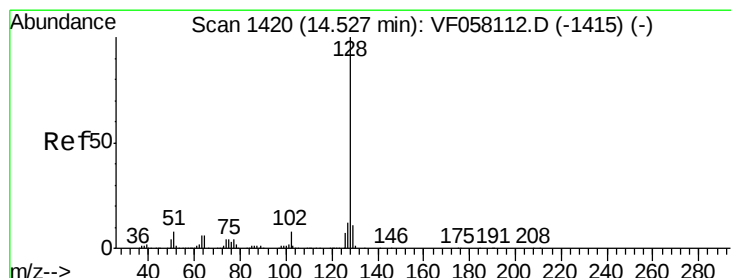
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



Time-->



#95

Naphthalene

Concen: 4.14 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.03 min

Lab File: VF059237.D

Acq: 20 Jun 2018 20:31

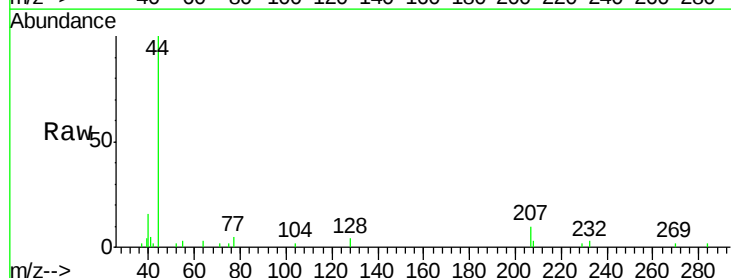
Tgt Ion:128 Resp: 117

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

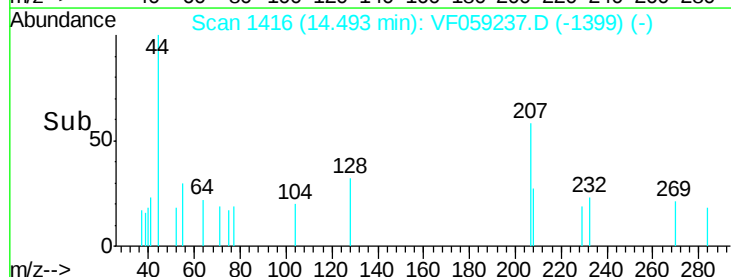
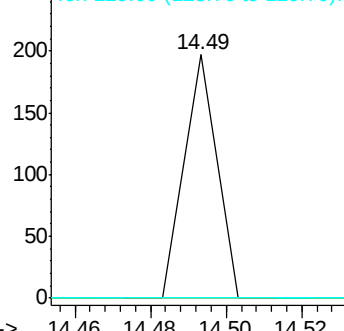
129 0.0 8.7 13.1#



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



Time-->