

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF073118\
 Data File : VF059731.D
 Acq On : 1 Aug 2018 3:12
 Operator : VA/AP
 Sample : J4218-07RE
 Misc : 6.91g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 01 07:37:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	82	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.80	114	81	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.91	117	137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.69	152	74	50.00	ug/l	0.06

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	100	67.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.72%	
35) Dibromofluoromethane	4.29	113	66	78.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	156.90%	
50) Toluene-d8	7.70	98	71	36.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.38%	
62) 4-Bromofluorobenzene	11.57	95	80	73.66	ug/l	0.06
Spiked Amount	50.000		Recovery	=	147.32%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.03	85	73	82.850	ug/l #	44
3) Chloromethane	1.09	50	156	357.920	ug/l #	38
4) Vinyl Chloride	1.21	62	88	182.784	ug/l #	47
6) Chloroethane	1.37	64	93	324.493	ug/l #	35
8) Diethyl Ether	1.78	74	64	244.426	ug/l #	1
11) Tert butyl alcohol	2.61	59	73	1234.275	ug/l #	74
12) 1,1-Dichloroethene	1.88	96	74	116.532	ug/l #	1
13) Acrolein	2.17	56	143	4315.364	ug/l #	4
14) Allyl chloride	2.19	41	63	62.137	ug/l #	1
15) Acrylonitrile	3.04	53	66	693.024	ug/l #	7
16) Acetone	2.35	43	69	260.302	ug/l #	68
17) Carbon Disulfide	2.01	76	104	83.812	ug/l #	71
18) Methyl Acetate	2.50	43	81	213.056	ug/l #	64
19) Methyl tert-butyl Ether	2.54	73	64	33.049	ug/l #	60
20) Methylene Chloride	2.29	84	63	118.759	ug/l #	1
21) trans-1,2-Dichloroethene	2.50	96	76	141.368	ug/l #	1
22) Diisopropyl ether	2.89	45	67	31.249	ug/l #	33
23) Vinyl Acetate	3.32	43	98	88.903	ug/l #	83
25) 2-Butanone	4.48	43	105	354.940	ug/l #	74
26) 2,2-Dichloropropane	3.68	77	183	172.336	ug/l #	66
27) cis-1,2-Dichloroethene	3.75	96	74	92.769	ug/l #	1
28) Bromochloromethane	3.86	49	76	156.199	ug/l #	15
29) Tetrahydrofuran	4.25	42	91	800.364	ug/l #	39
30) Chloroform	4.05	83	63	29.967	ug/l #	54
31) Cyclohexane	3.85	56	62	89.102	ug/l #	15
36) 1,1-Dichloropropene	4.50	75	81	102.966	ug/l #	46
37) Ethyl Acetate	4.33	43	87	232.115	ug/l #	19
39) Methylcyclohexane	5.70	83	60	100.334	ug/l #	13
40) Benzene	4.95	78	69	42.182	ug/l #	52
41) Methacrylonitrile	4.93	41	63	324.376	ug/l #	24
43) Isopropyl Acetate	7.18	43	77	158.979	ug/l #	46
45) 1,2-Dichloropropane	6.45	63	242	560.203	ug/l #	43
46) Dibromomethane	6.27	93	159	387.681	ug/l #	8
47) Bromodichloromethane	6.60	83	511	457.528	ug/l #	1

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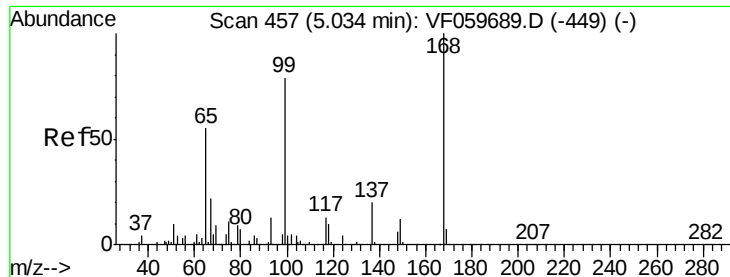
Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 01 07:37:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

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

48) Methyl methacrylate	6.91	41	234	642.312	ug/l #	48
49) 1,4-Dioxane	7.13	88	68	11680.415	ug/l #	21
51) 4-Methyl-2-Pentanone	8.45	43	211	572.687	ug/l #	42
53) t-1,3-Dichloropropene	8.43	75	96	99.060	ug/l #	41
54) cis-1,3-Dichloropropene	7.36	75	63	67.115	ug/l #	18
55) 1,1,2-Trichloroethane	8.73	97	123	277.640	ug/l #	14
56) Ethyl methacrylate	8.85	69	88	190.470	ug/l #	14
57) 1,3-Dichloropropane	9.12	76	76	99.998	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.77	63	94	1762.168	ug/l	100
59) 2-Hexanone	9.65	43	593	2008.468	ug/l #	30
60) Dibromochloromethane	9.01	129	131	167.577	ug/l #	12
66) 1,1,1,2-Tetrachloroethane	10.19	131	63	49.239	ug/l #	9
67) Ethyl Benzene	10.14	91	60	12.654	ug/l #	46
73) Isopropylbenzene	11.25	105	83	17.094	ug/l #	50
74) N-amyl acetate	11.47	43	166	135.511	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.67	83	74	80.963	ug/l #	25
76) 1,2,3-Trichloropropane	11.74	75	66	84.920	ug/l #	39
78) n-propylbenzene	11.62	91	79	12.072	ug/l #	54
80) 1,3,5-Trimethylbenzene	11.92	105	140	34.832	ug/l #	31
83) tert-Butylbenzene	12.29	119	70	16.060	ug/l #	26
85) sec-Butylbenzene	12.48	105	62	7.972	ug/l #	57
86) p-Isopropyltoluene	12.63	119	63	10.109	ug/l #	49
89) n-Butylbenzene	12.93	91	127	28.474	ug/l #	29
90) Hexachloroethane	12.91	117	73	59.608	ug/l #	18
92) 1,2-Dibromo-3-Chloropropan	13.73	75	83	371.472	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

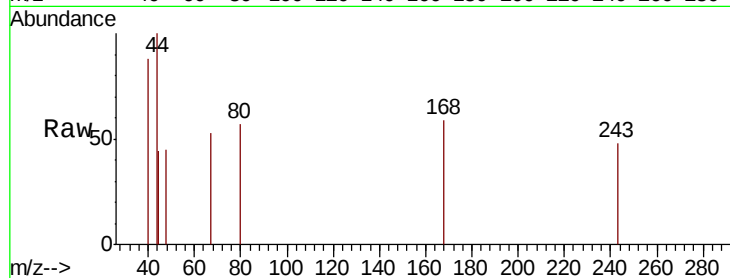
ClientSampleId :

Tot Ion:168 Resp: 82

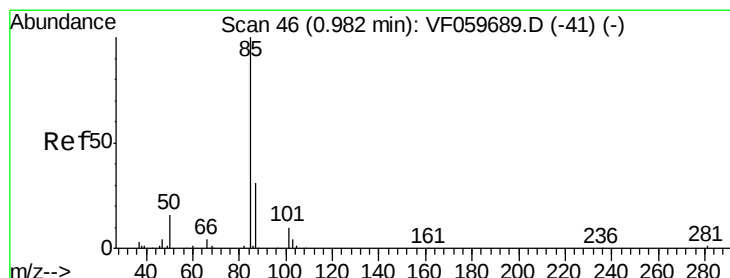
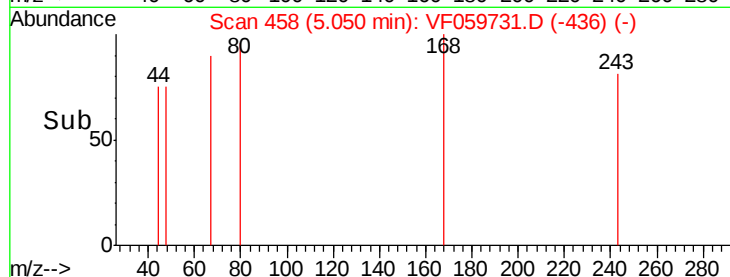
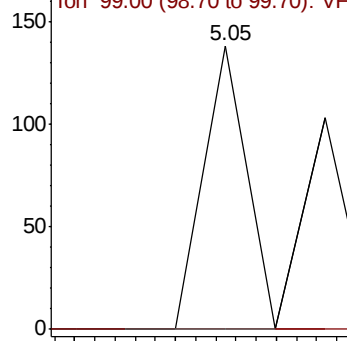
Ion Ratio Lower Upper

168 100

99 0.0 63.3 94.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 82.850 ug/l

RT: 1.03 min Scan# 50

Delta R.T. 0.05 min

Lab File: VF059731.D

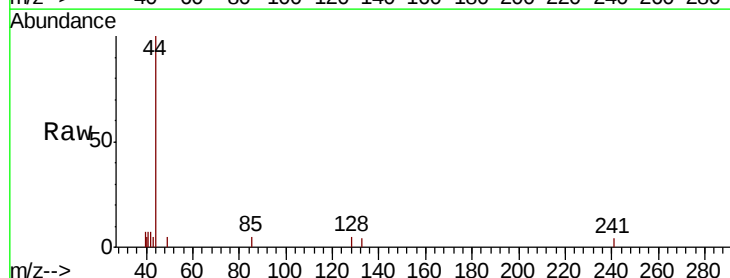
Acq: 1 Aug 2018 3:12

Tgt Ion: 85 Resp: 73

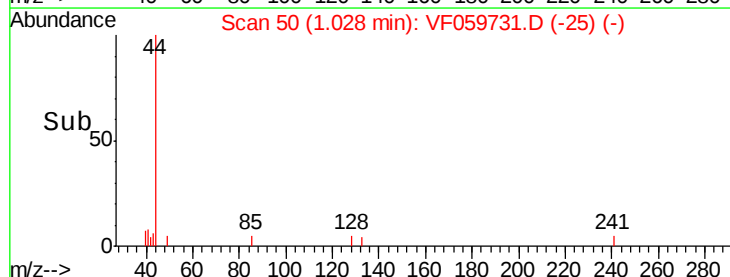
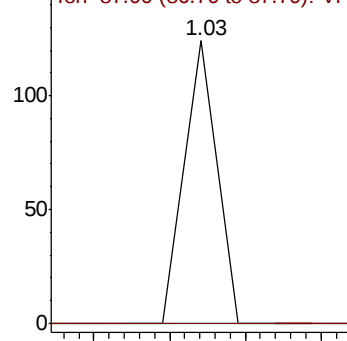
Ion Ratio Lower Upper

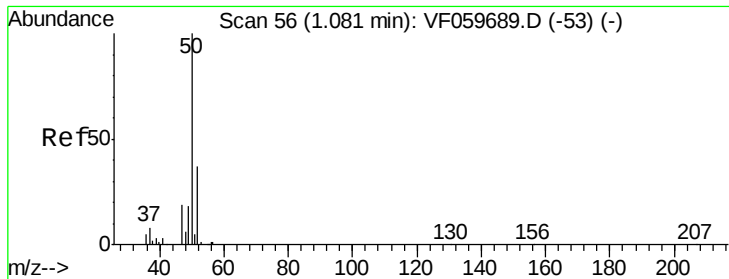
85 100

87 0.0 15.3 45.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 357.920 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

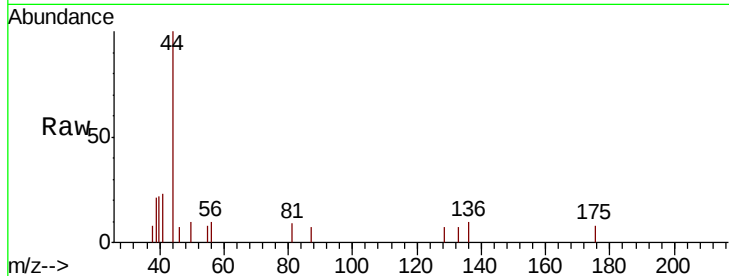
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 50 Resp: 156

Ion Ratio Lower Upper

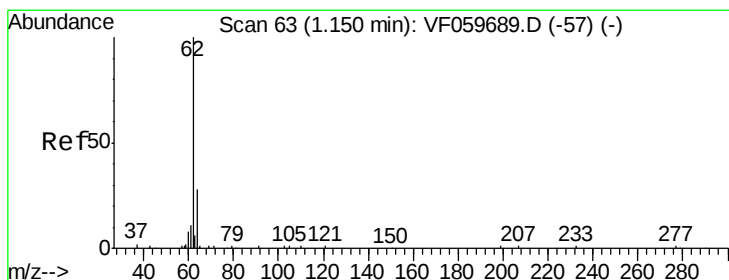
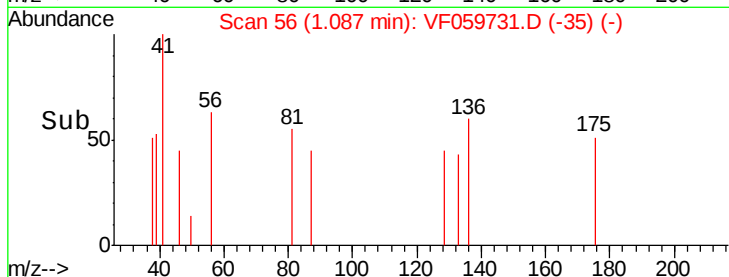
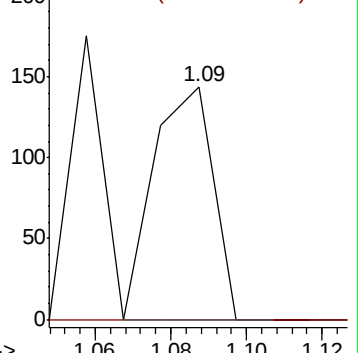
50 100

52 0.0 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 182.784 ug/l

RT: 1.21 min Scan# 68

Delta R.T. 0.06 min

Lab File: VF059731.D

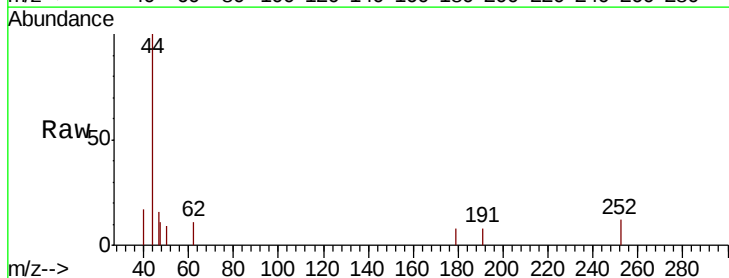
Acq: 1 Aug 2018 3:12

Tgt Ion: 62 Resp: 88

Ion Ratio Lower Upper

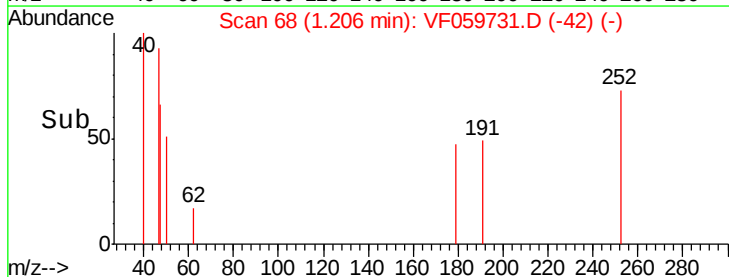
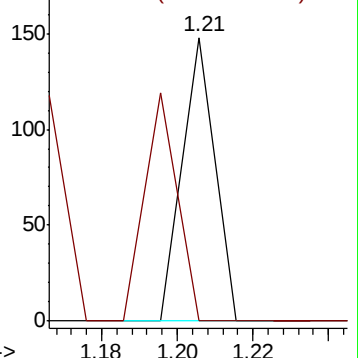
62 100

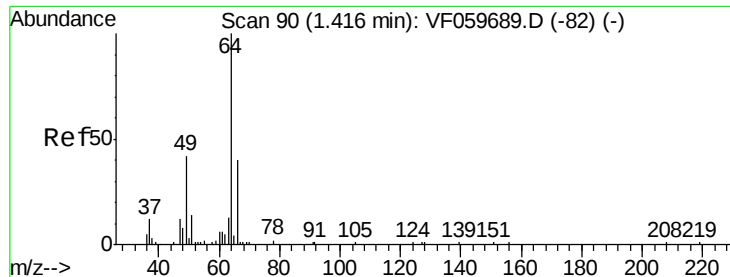
64 0.0 22.6 33.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#6

Chloroethane

Concen: 324.493 ug/l

RT: 1.37 min Scan# 85

Delta R.T. -0.04 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

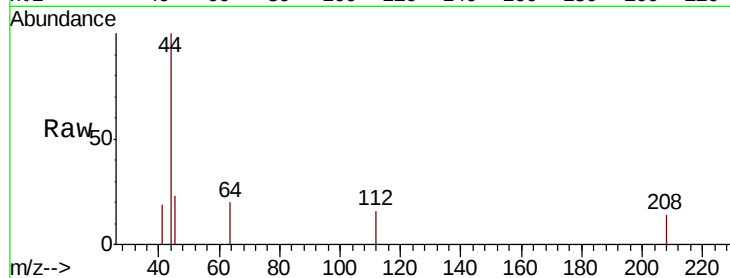
ClientSampleId :

Tot Ion: 64 Resp: 93

Ion Ratio Lower Upper

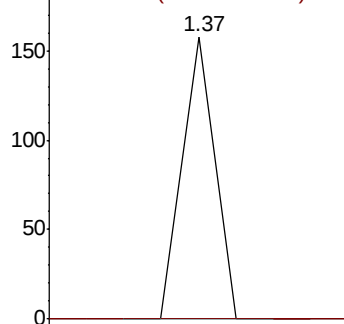
64 100

66 0.0 32.6 49.0#

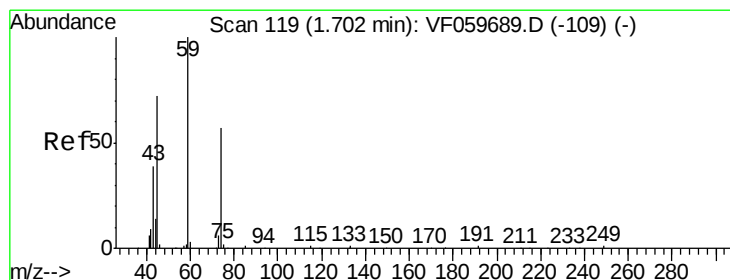
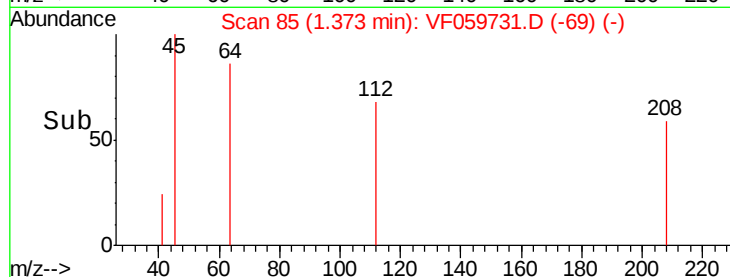


Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



Time--> 1.34 1.36 1.38 1.40



#8

Diethyl Ether

Concen: 244.426 ug/l

RT: 1.78 min Scan# 126

Delta R.T. 0.08 min

Lab File: VF059731.D

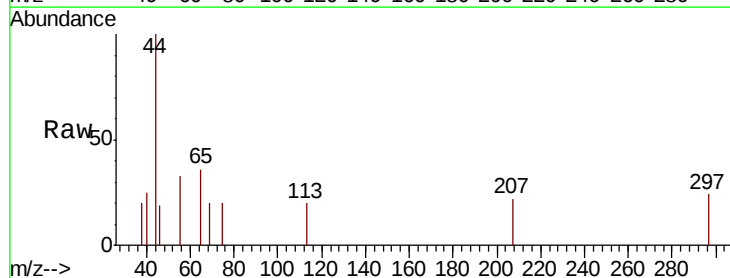
Acq: 1 Aug 2018 3:12

Tgt Ion: 74 Resp: 64

Ion Ratio Lower Upper

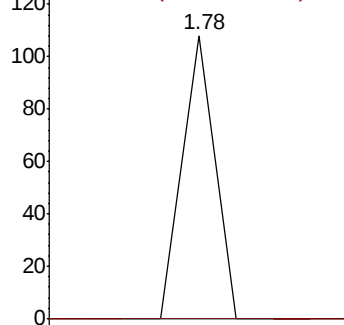
74 100

45 0.0 62.7 188.2#

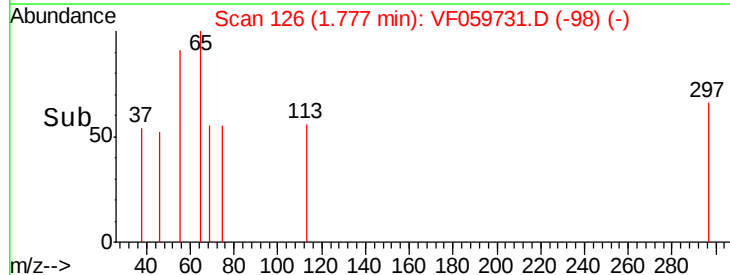


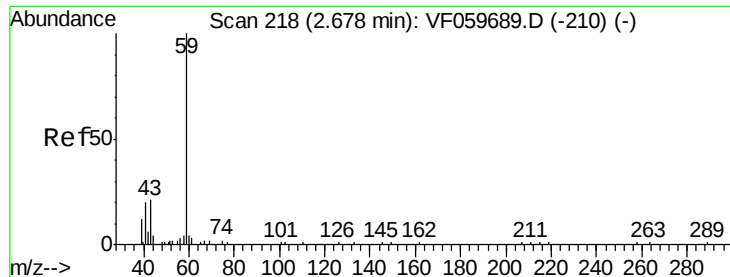
Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time--> 1.74 1.76 1.78 1.80

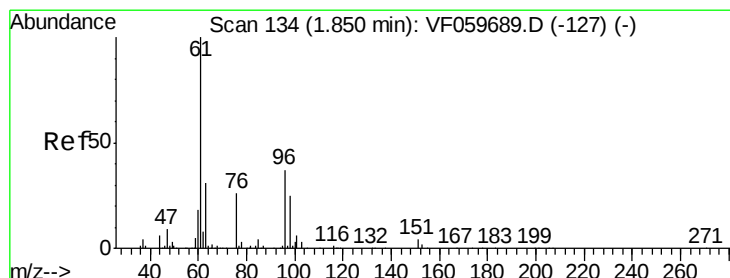
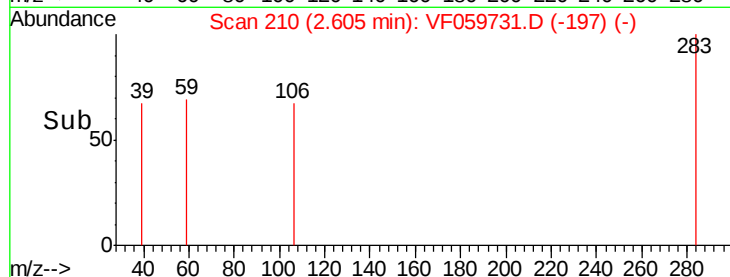
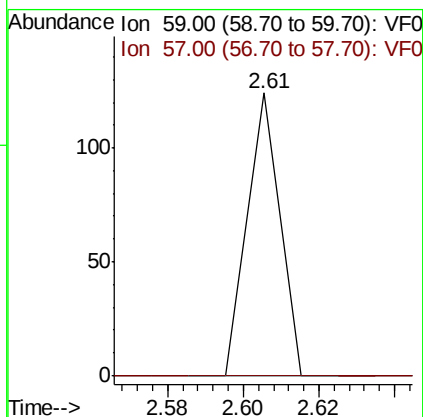
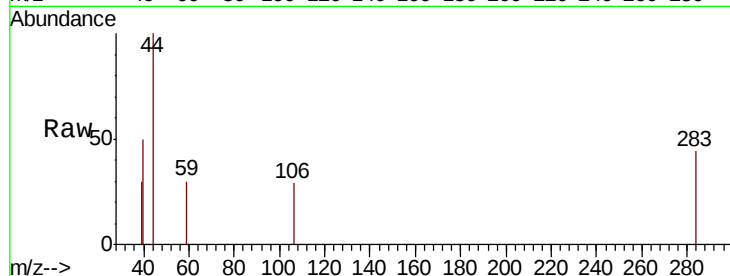




#11
Tert butyl alcohol
Concen: 1234.275 ug/l
RT: 2.61 min Scan# 210
Delta R.T. -0.07 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

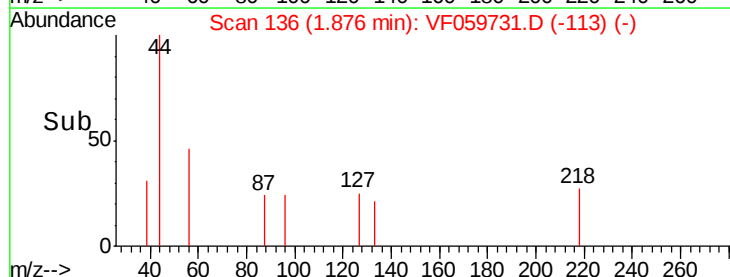
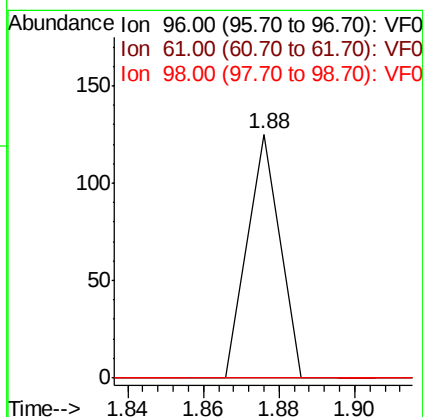
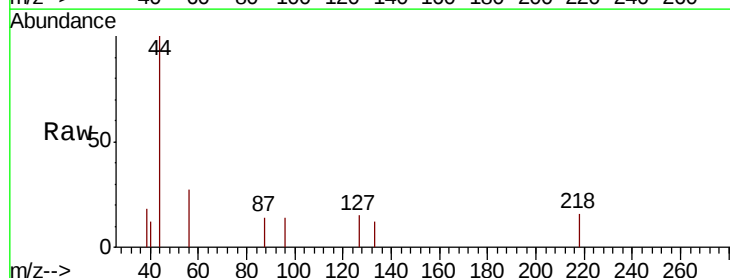
Instrument :
MSVOA_F
ClientSampled :

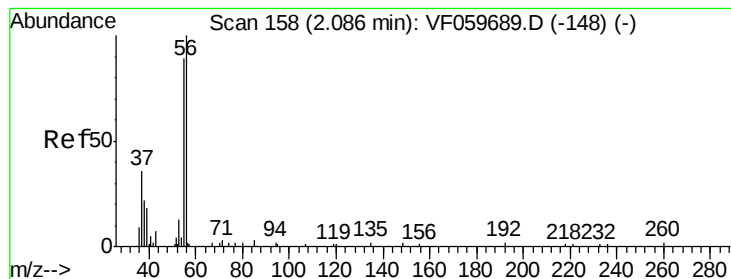
Tot Ion: 59 Resp: 73
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#



#12
1,1-Dichloroethene
Concen: 116.532 ug/l
RT: 1.88 min Scan# 136
Delta R.T. 0.03 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Tgt Ion: 96 Resp: 74
Ion Ratio Lower Upper
96 100
61 0.0 215.1 322.7#
98 0.0 54.3 81.5#





#13

Acrolein

Concen: 4315.364 ug/l

RT: 2.17 min Scan# 166

Delta R.T. 0.09 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

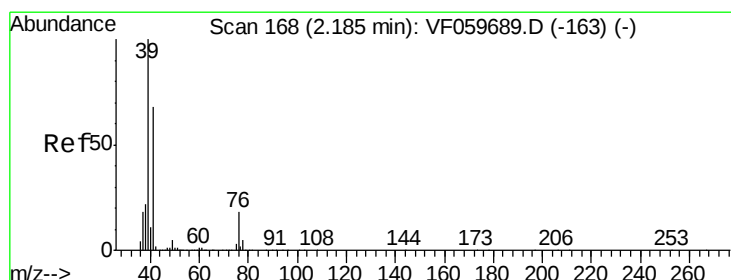
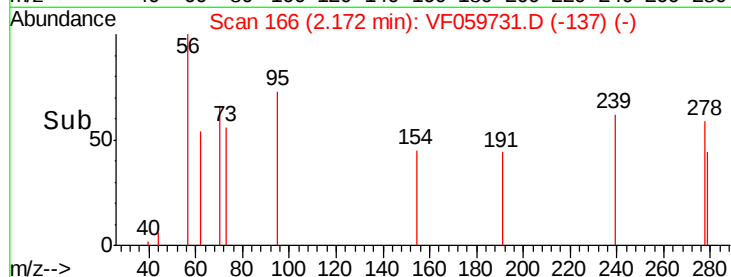
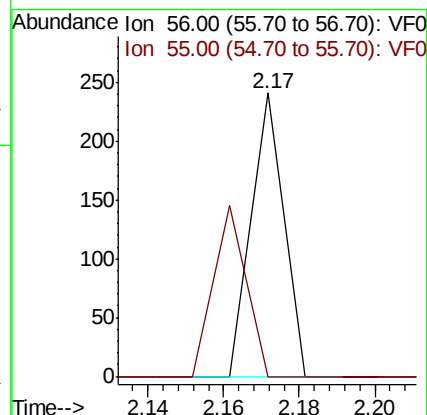
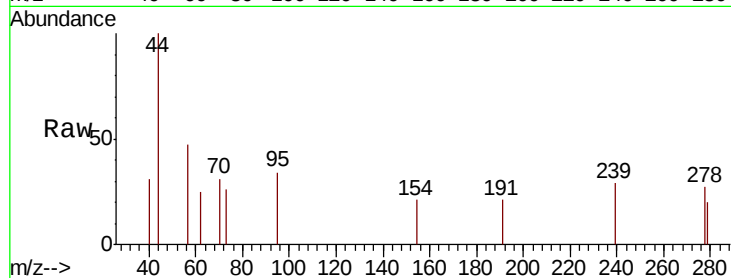
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 143

Ion Ratio Lower Upper

56 100

55 0.0 73.2 109.8#



#14

Allyl chloride

Concen: 62.137 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.01 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

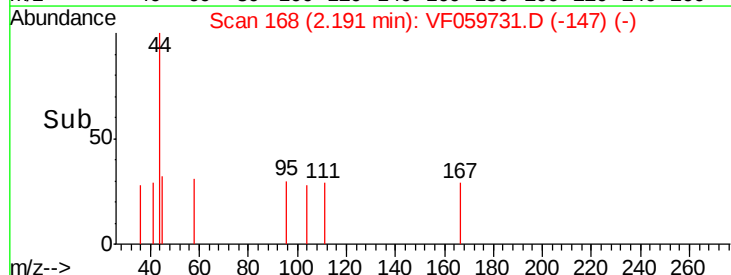
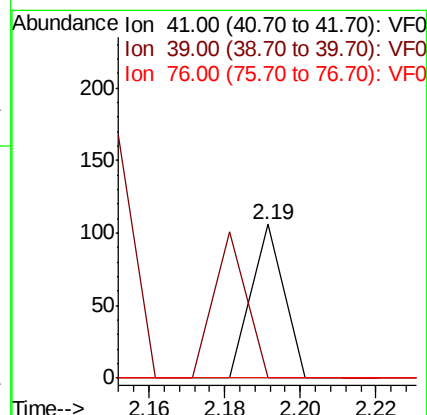
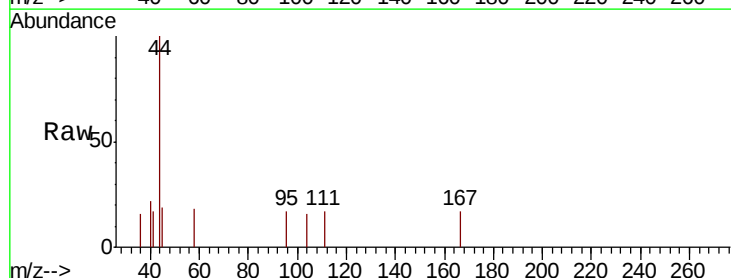
Tgt Ion: 41 Resp: 63

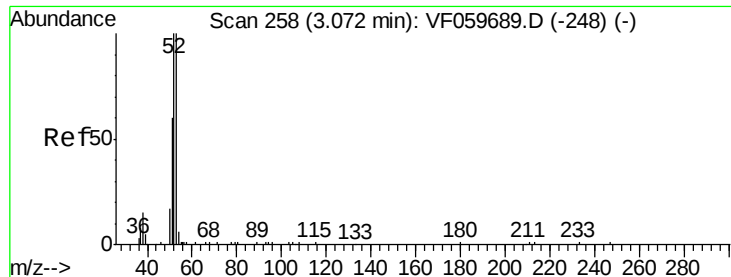
Ion Ratio Lower Upper

41 100

39 0.0 118.1 177.1#

76 0.0 22.0 33.0#





#15

Acrylonitrile

Concen: 693.024 ug/l

RT: 3.04 min Scan# 254

Delta R.T. -0.03 min

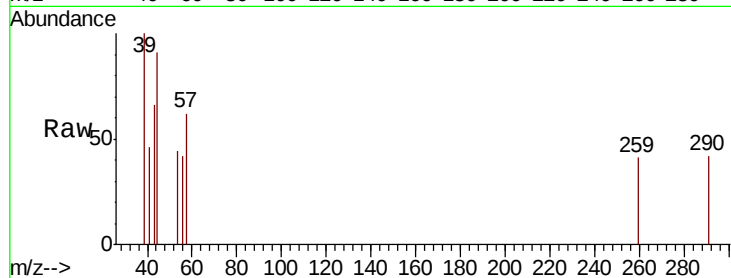
Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

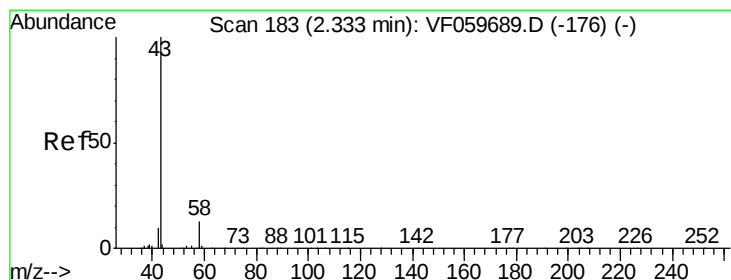
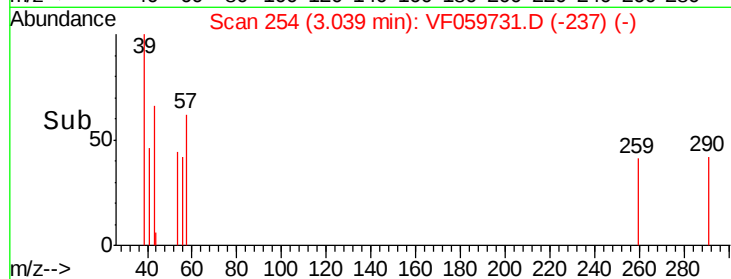
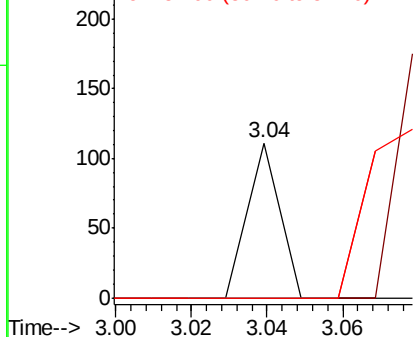
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 66

Ion	Ratio	Lower	Upper
53	100		
52	0.0	80.3	120.5#
51	0.0	49.4	74.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 260.302 ug/l

RT: 2.35 min Scan# 184

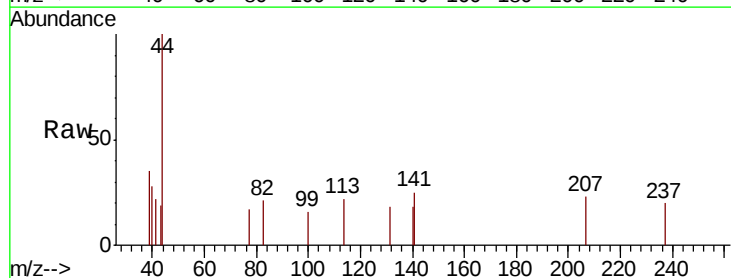
Delta R.T. 0.02 min

Lab File: VF059731.D

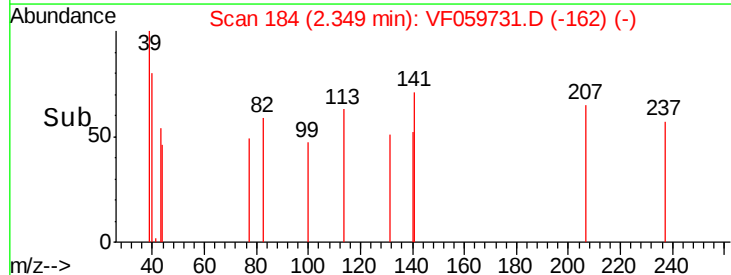
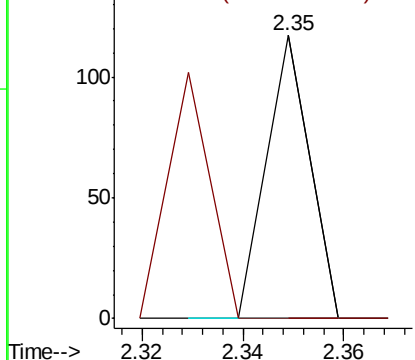
Acq: 1 Aug 2018 3:12

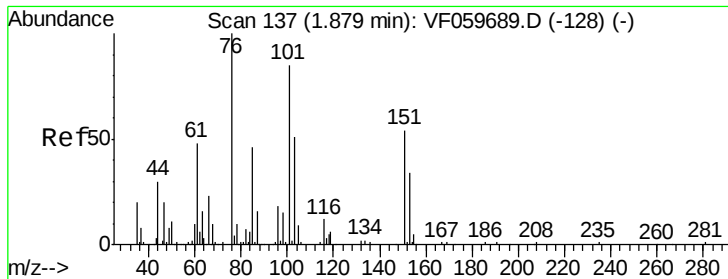
Tgt Ion: 43 Resp: 69

Ion	Ratio	Lower	Upper
43	100		
58	0.0	10.1	15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

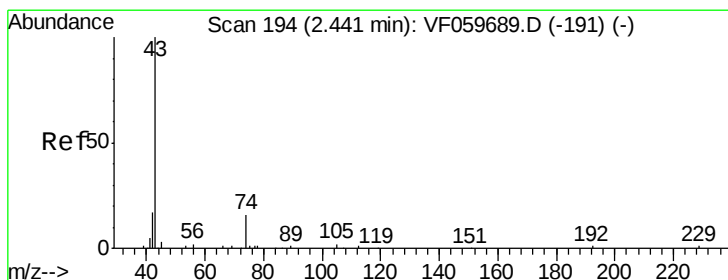
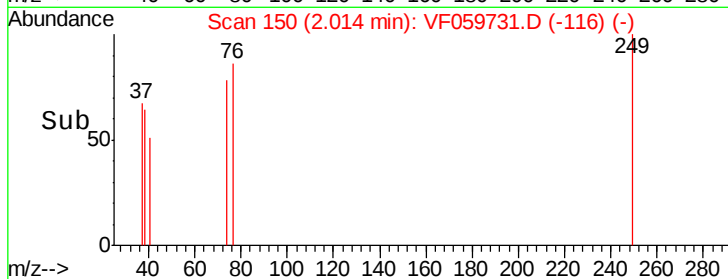
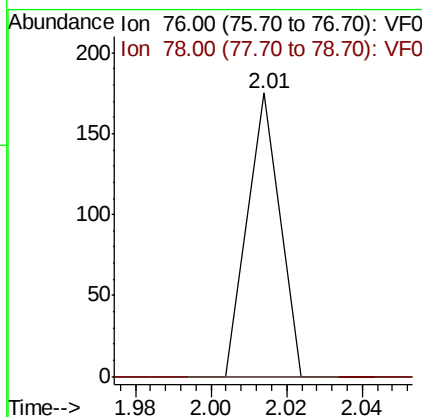
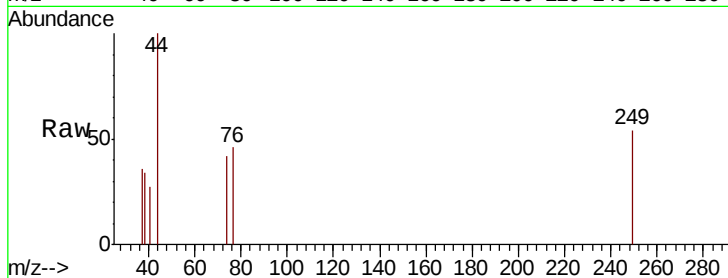




#17
Carbon Disulfide
Concen: 83.812 ug/l
RT: 2.01 min Scan# 150
Delta R.T. 0.13 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

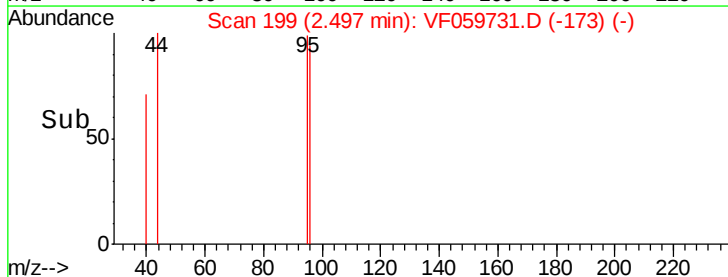
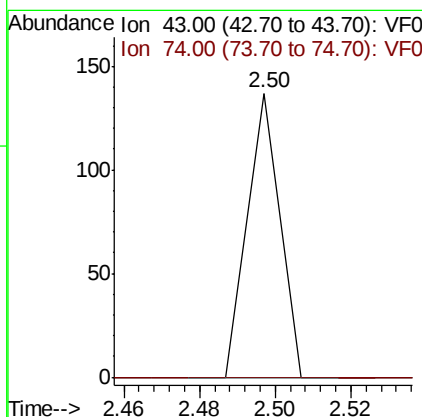
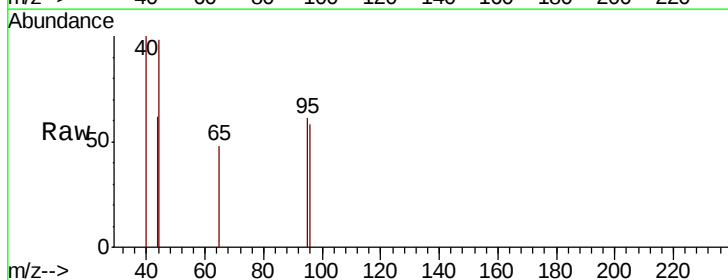
Instrument :
MSVOA_F
ClientSampled :

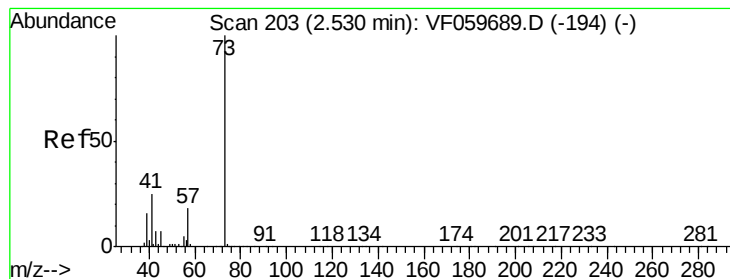
Tot Ion: 76 Resp: 104
Ion Ratio Lower Upper
76 100
78 0.0 8.9 13.3#



#18
Methyl Acetate
Concen: 213.056 ug/l
RT: 2.50 min Scan# 199
Delta R.T. 0.06 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Tgt Ion: 43 Resp: 81
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.6#



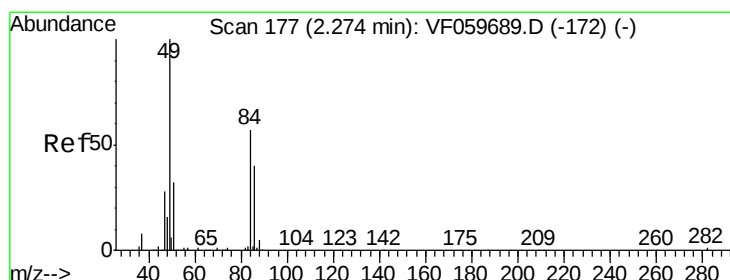
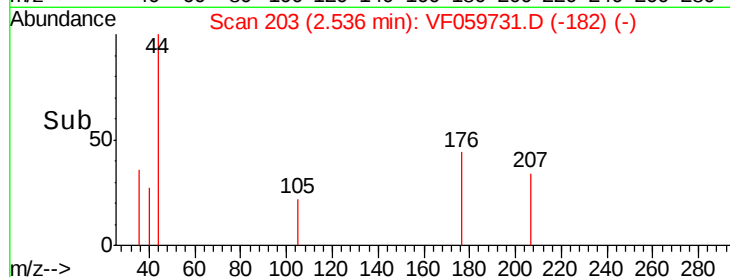
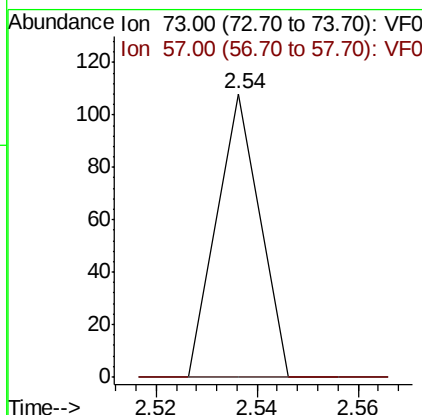
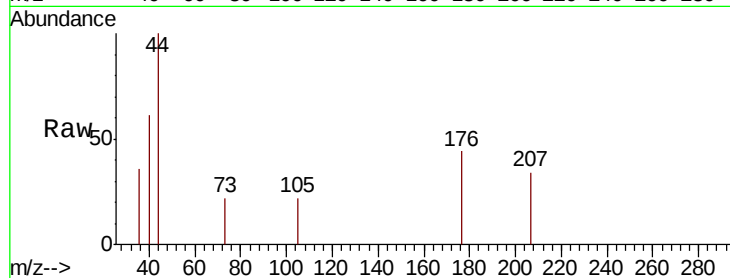


#19

Methyl tert-butyl Ether
 Concen: 33.049 ug/l
 RT: 2.54 min Scan# 203
 Delta R.T. 0.01 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

Instrument :
 MSVOA_F
 ClientSampleId :

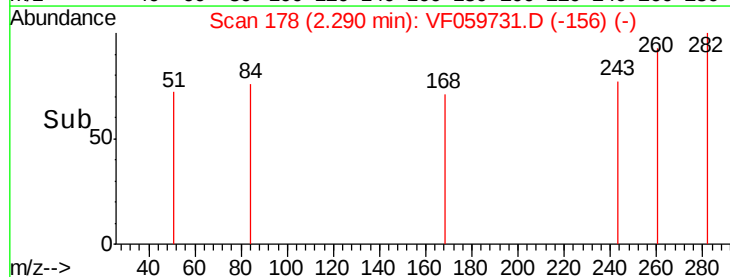
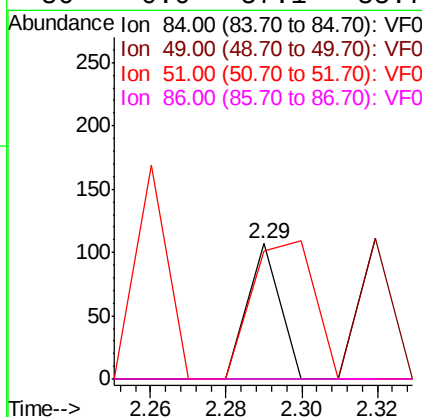
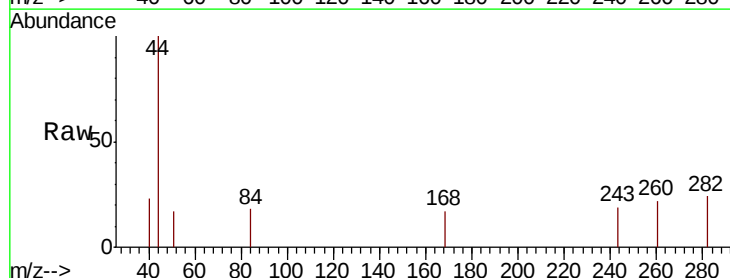
Tot Ion: 73 Resp: 64
 Ion Ratio Lower Upper
 73 100
 57 0.0 14.2 21.2#

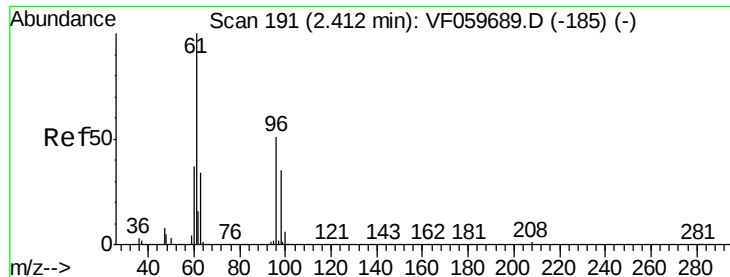


#20

Methylene Chloride
 Concen: 118.759 ug/l
 RT: 2.29 min Scan# 178
 Delta R.T. 0.02 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

Tgt Ion: 84 Resp: 63
 Ion Ratio Lower Upper
 84 100
 49 0.0 142.2 213.4#
 51 94.4 46.2 69.2#
 86 0.0 57.1 85.7#





#21

trans-1,2-Dichloroethene

Concen: 141.368 ug/l

RT: 2.50 min Scan# 199

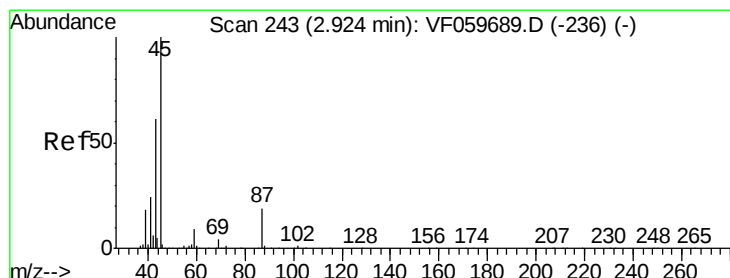
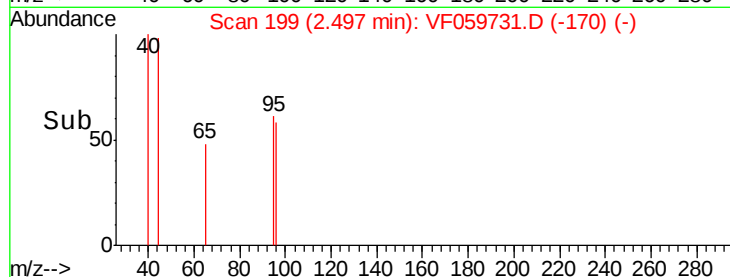
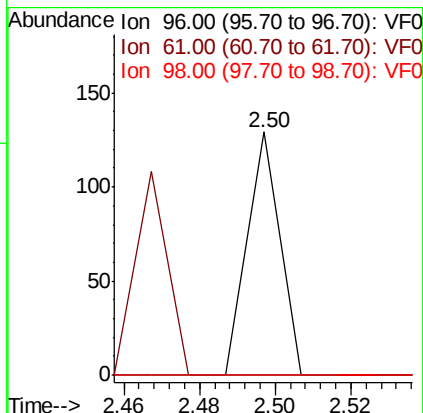
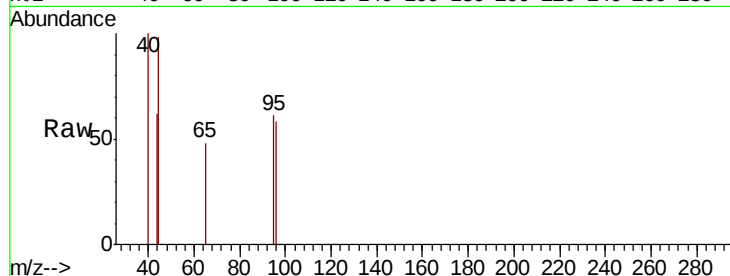
Delta R.T. 0.09 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	96	Resp:	76
Ion	Ratio	Lower	Upper
96	100		
61	0.0	157.4	236.0#
98	0.0	55.0	82.4#



#22

Diisopropyl ether

Concen: 31.249 ug/l

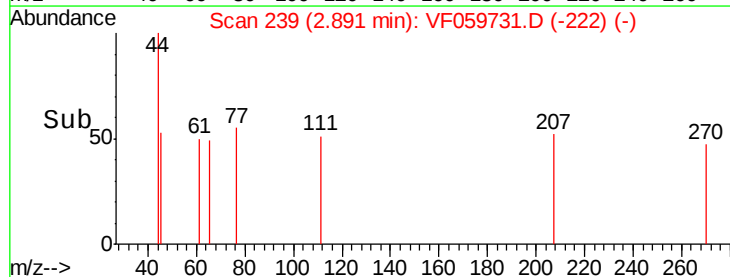
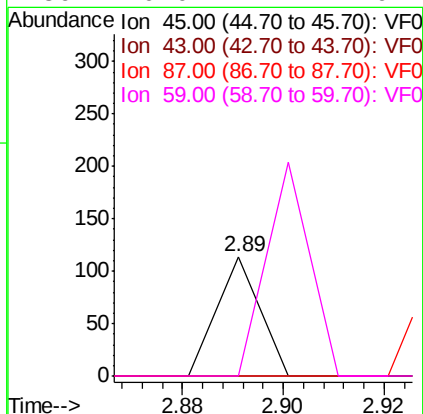
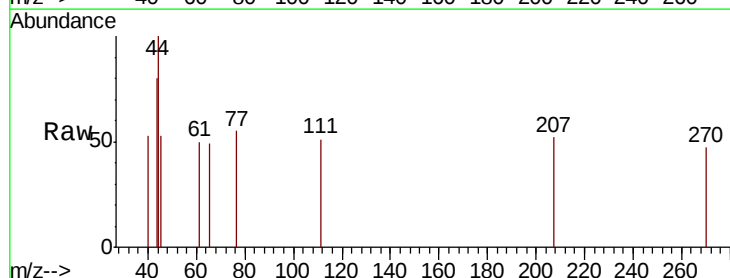
RT: 2.89 min Scan# 239

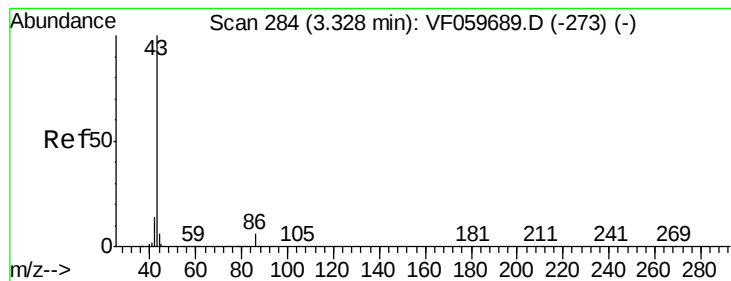
Delta R.T. -0.03 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Tgt Ion:	45	Resp:	67
Ion	Ratio	Lower	Upper
45	100		
43	0.0	49.3	73.9#
87	0.0	15.3	22.9#
59	0.0	7.1	10.7#





#23

Vinyl Acetate

Concen: 88.903 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.00 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

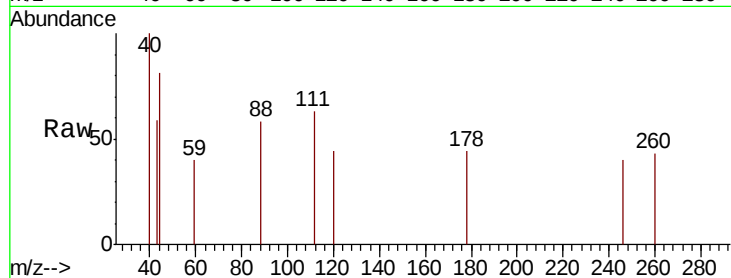
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 98

Ion Ratio Lower Upper

43 100

86 0.0 4.6 6.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.32

150

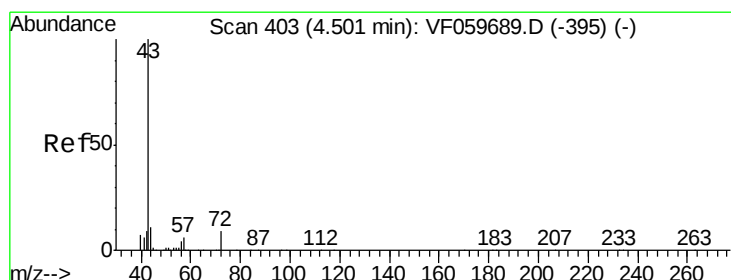
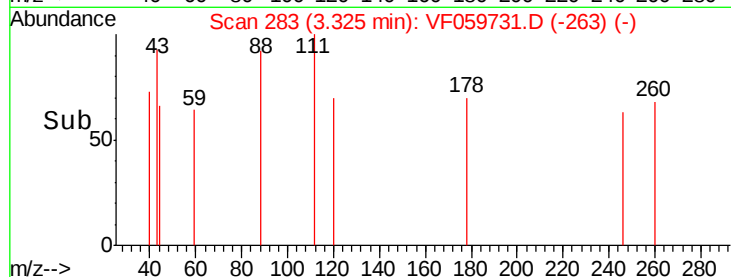
100

50

0

3.30 3.32 3.34

Time-->



#25

2-Butanone

Concen: 354.940 ug/l

RT: 4.48 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF059731.D

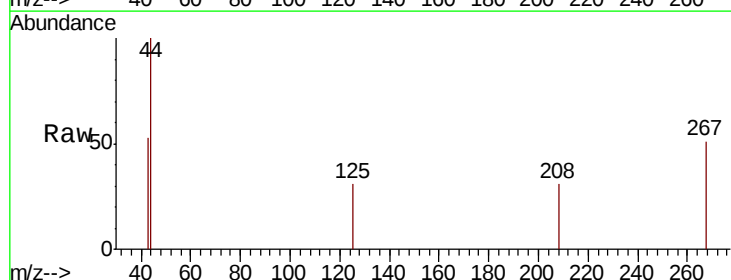
Acq: 1 Aug 2018 3:12

Tgt Ion: 43 Resp: 105

Ion Ratio Lower Upper

43 100

72 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.48

200

150

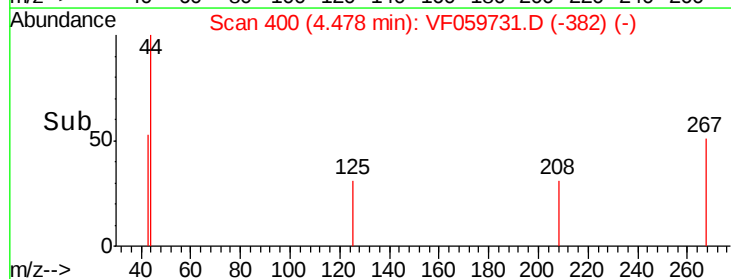
100

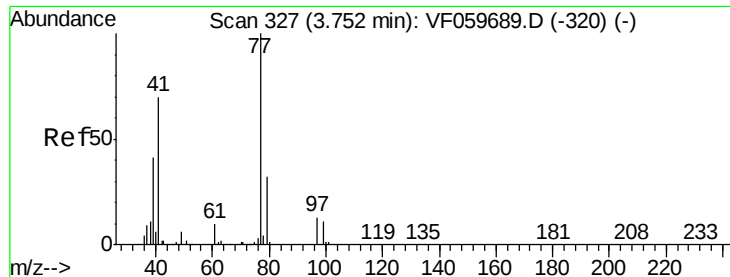
50

0

4.44 4.46 4.48 4.50

Time-->





#26

2,2-Dichloropropane

Concen: 172.336 ug/l

RT: 3.68 min Scan# 319

Delta R.T. -0.07 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

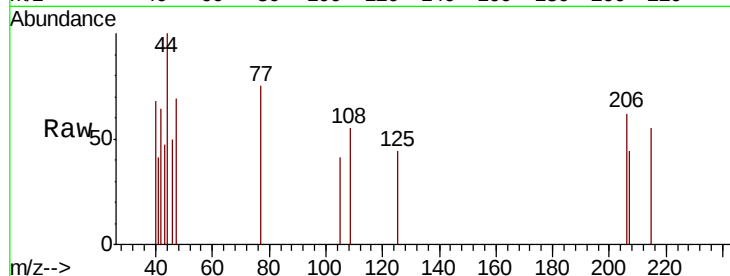
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 77 Resp: 183

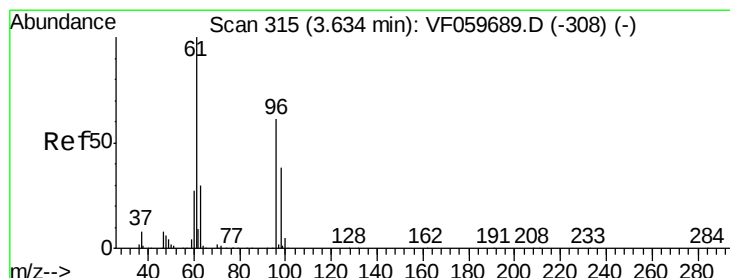
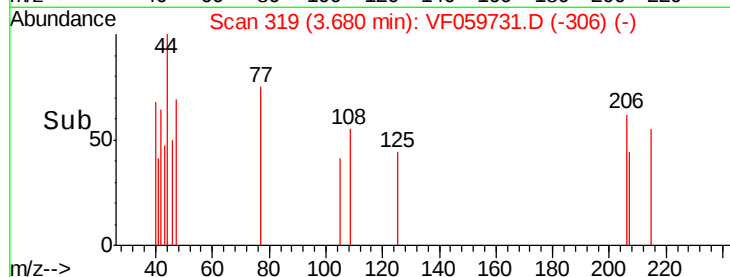
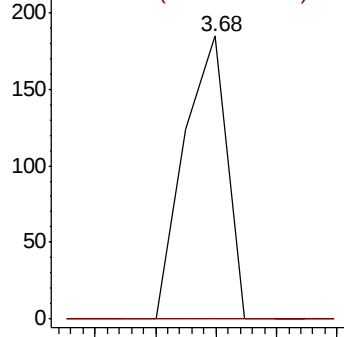
Ion Ratio Lower Upper

77 100

97 0.0 6.8 20.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0
Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 92.769 ug/l

RT: 3.75 min Scan# 326

Delta R.T. 0.11 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

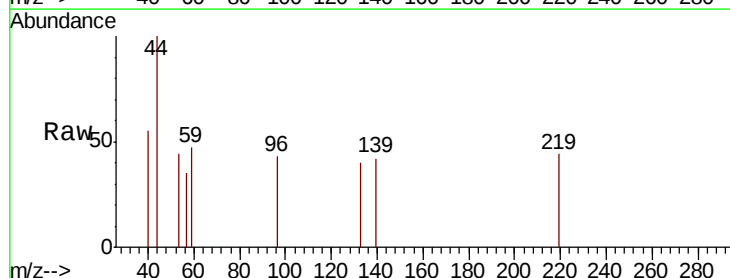
Tgt Ion: 96 Resp: 74

Ion Ratio Lower Upper

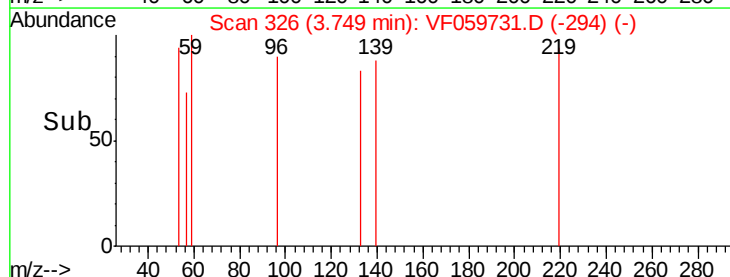
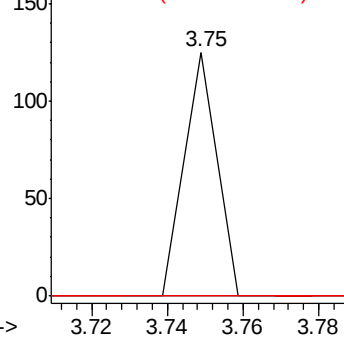
96 100

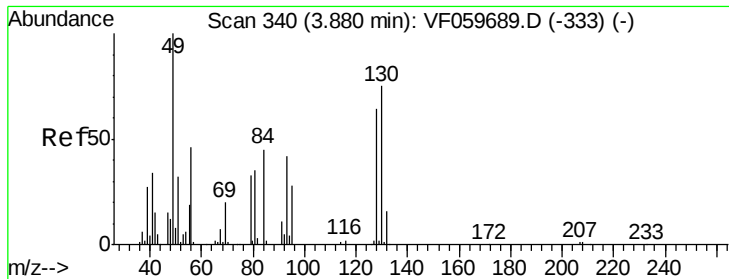
61 0.0 0.0 326.8

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





#28

Bromochloromethane

Concen: 156.199 ug/l

RT: 3.86 min Scan# 337

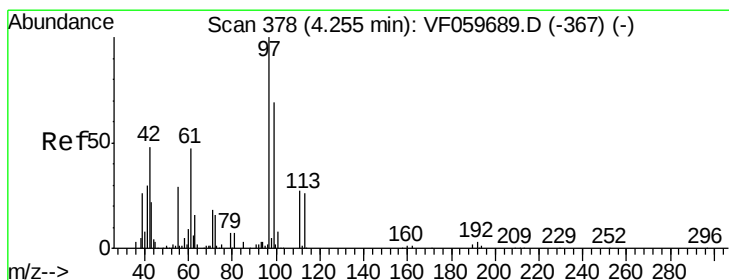
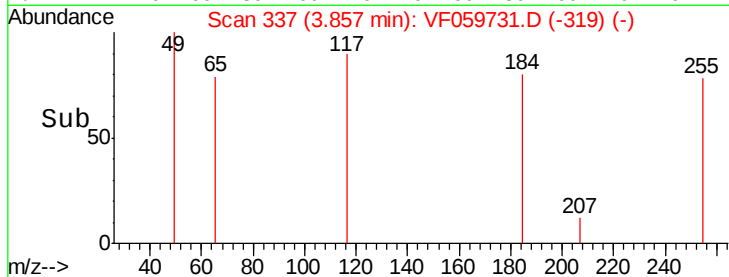
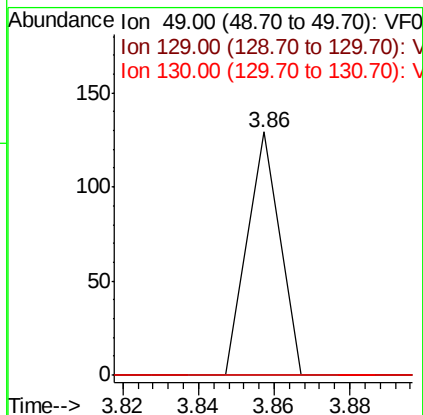
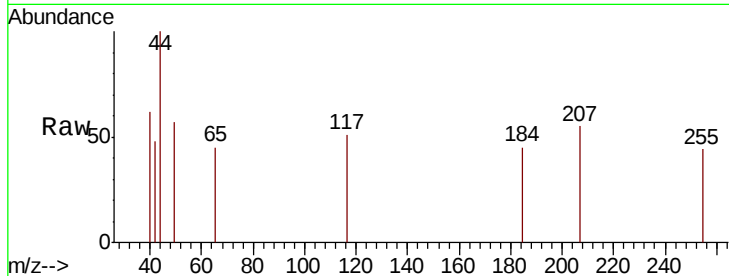
Delta R.T. -0.02 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	49	Resp:	76
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	0.0	59.6	89.4#



#29

Tetrahydrofuran

Concen: 800.364 ug/l

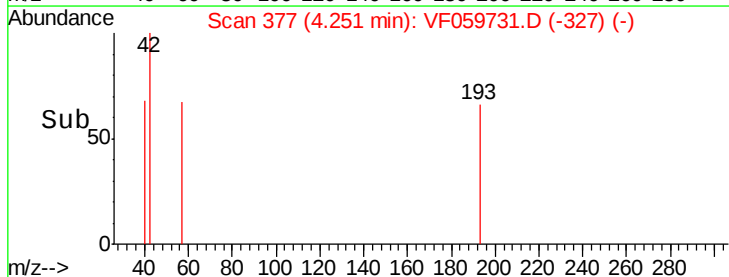
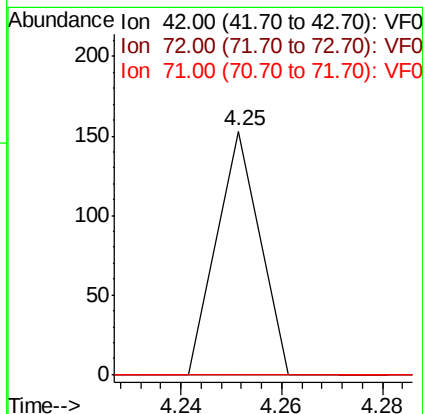
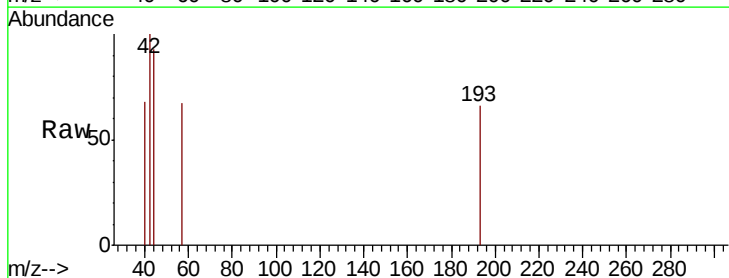
RT: 4.25 min Scan# 377

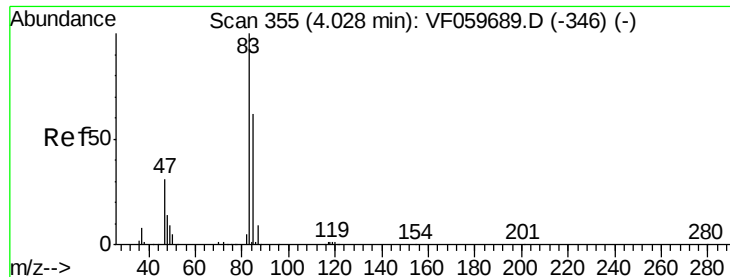
Delta R.T. -0.00 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Tgt Ion:	42	Resp:	91
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.0	40.6#
71	0.0	29.7	44.5#

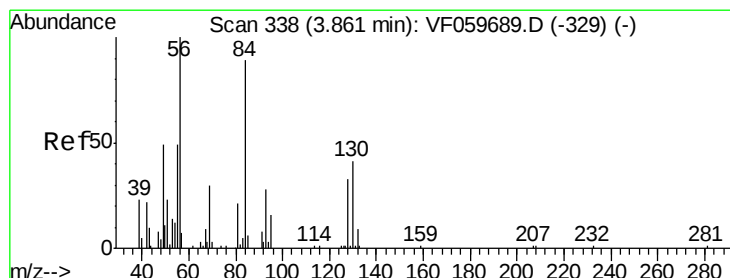
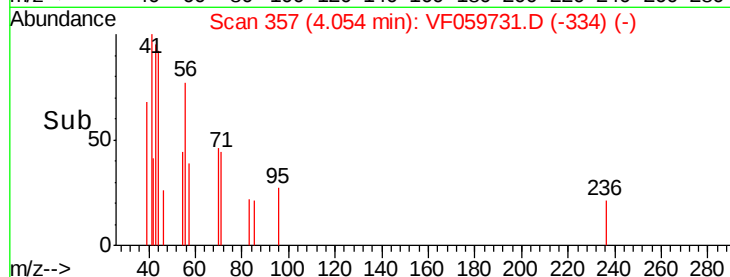
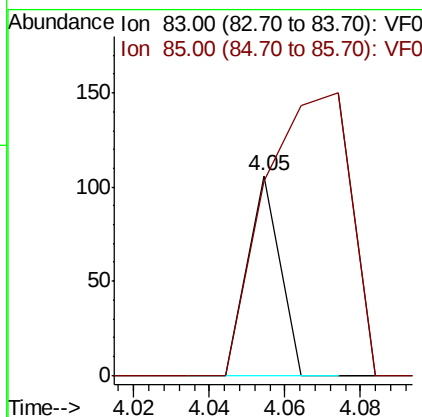
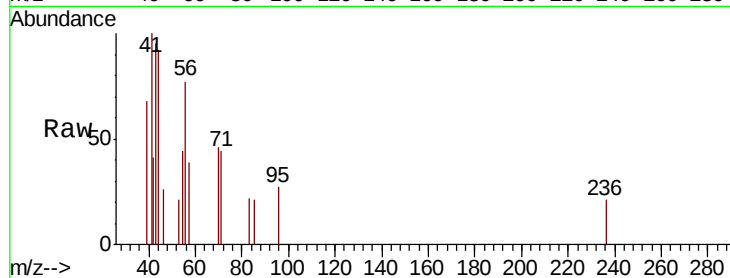




#30
Chloroform
Concen: 29.967 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.03 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

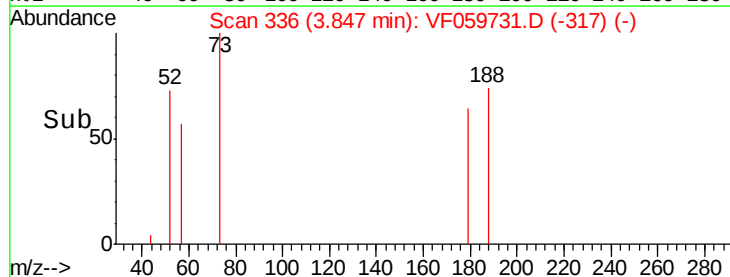
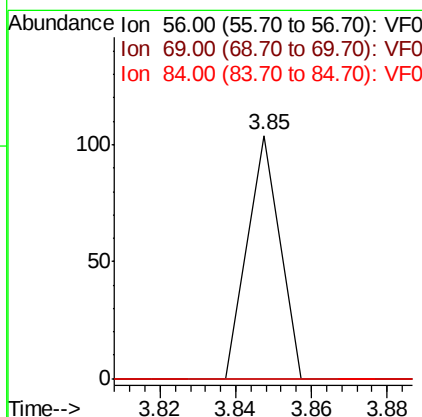
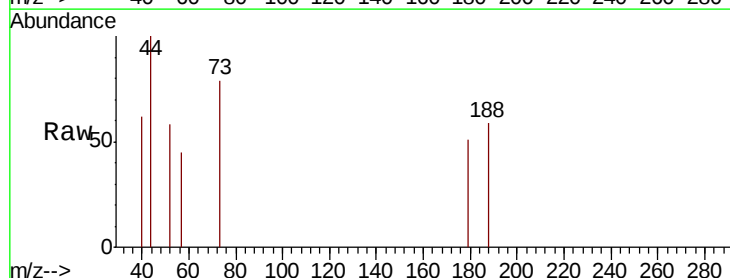
Instrument :
MSVOA_F
ClientSampleId :

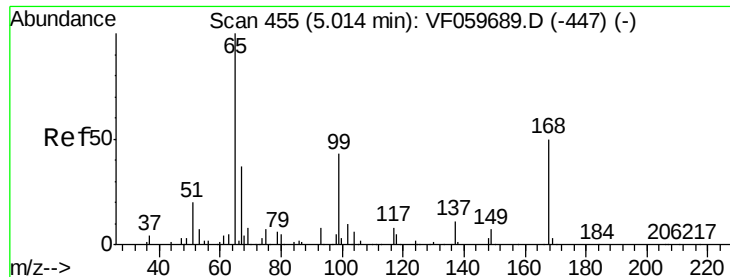
Tot Ion: 83 Resp: 63
Ion Ratio Lower Upper
83 100
85 97.2 49.4 74.0#



#31
Cyclohexane
Concen: 89.102 ug/l
RT: 3.85 min Scan# 336
Delta R.T. -0.01 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Tgt Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
69 0.0 23.7 35.5#
84 0.0 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 67.856 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

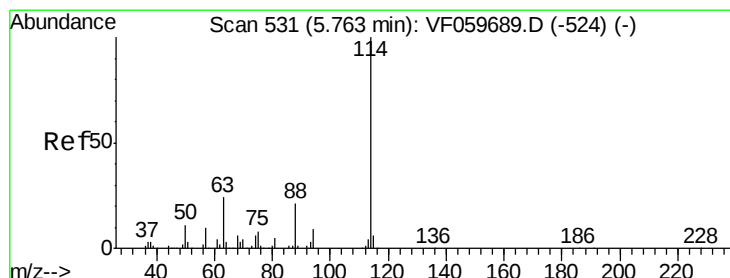
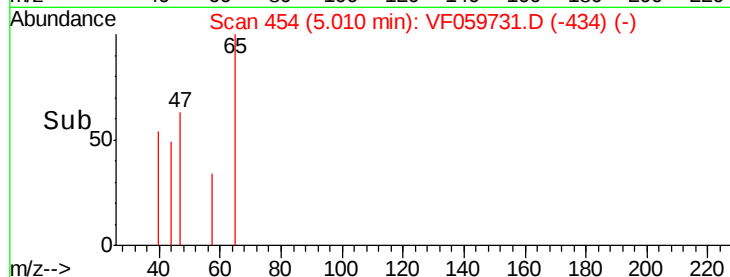
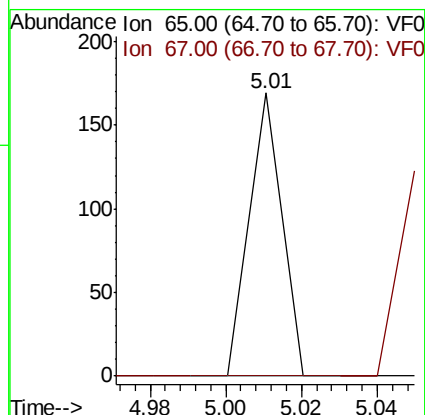
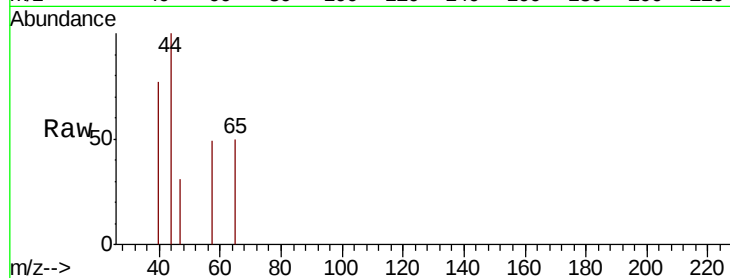
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 100

Ion Ratio Lower Upper

65 100

67 0.0 0.0 84.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.04 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

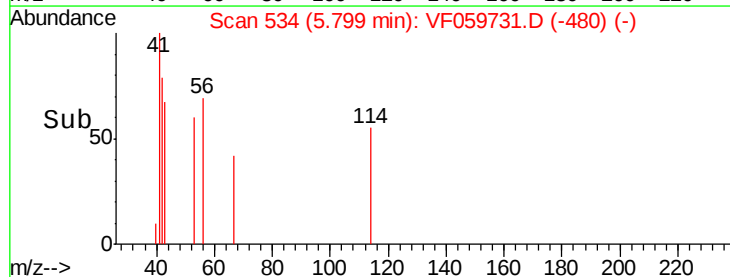
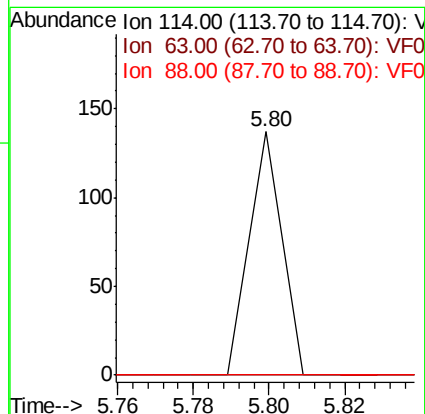
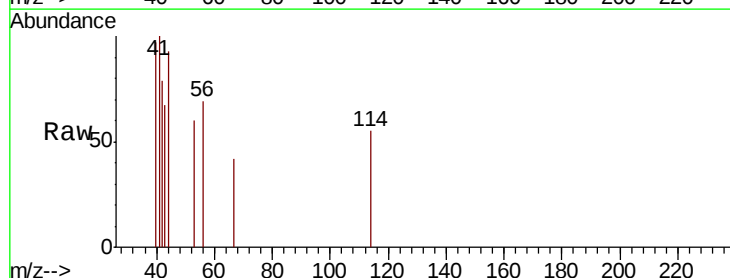
Tgt Ion: 114 Resp: 81

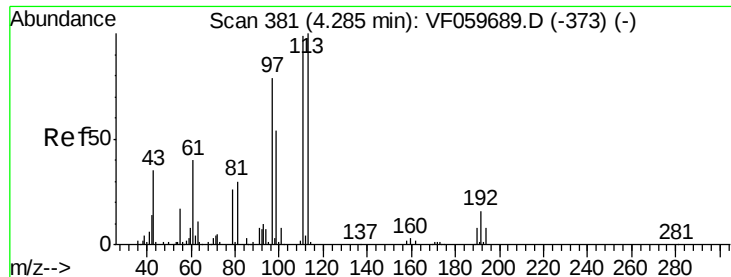
Ion Ratio Lower Upper

114 100

63 0.0 0.0 47.4

88 0.0 0.0 41.2

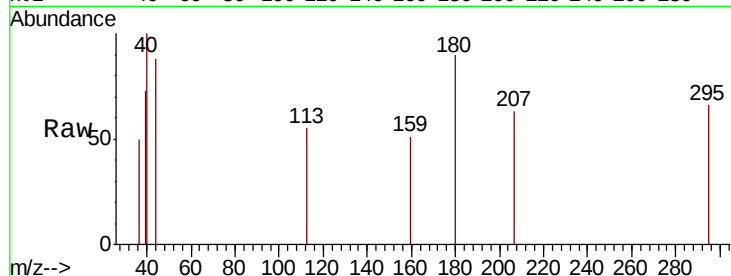




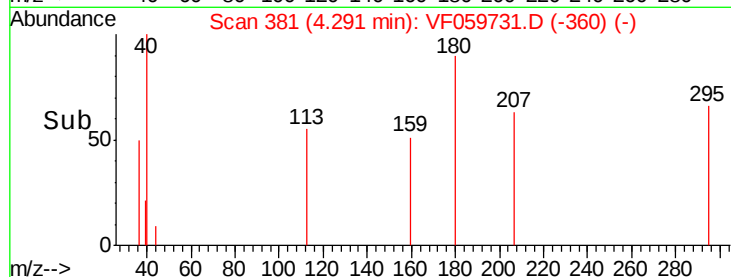
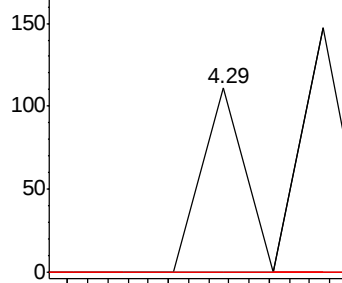
#35
 Dibromofluoromethane
 Concen: 78.449 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

Instrument :
 MSVOA_F
 ClientSampled :

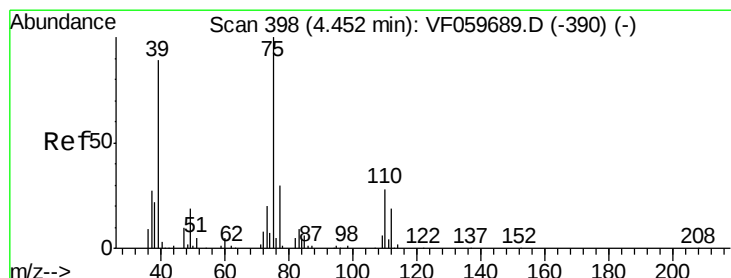
Tot Ion:113 Resp: 66
 Ion Ratio Lower Upper
 113 100
 111 0.0 79.0 118.4#
 192 0.0 13.2 19.8#



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

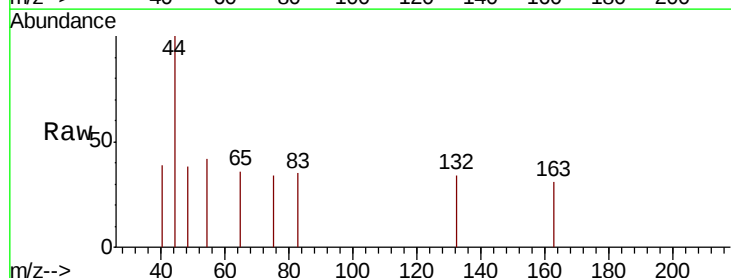


Time-->

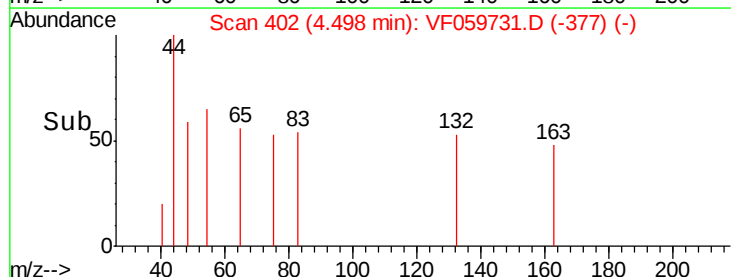
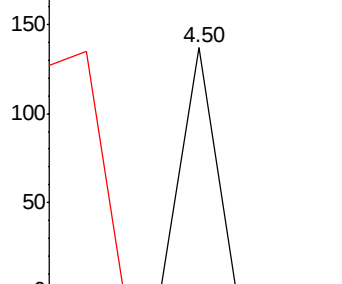


#36
 1,1-Dichloropropene
 Concen: 102.966 ug/l
 RT: 4.50 min Scan# 402
 Delta R.T. 0.05 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

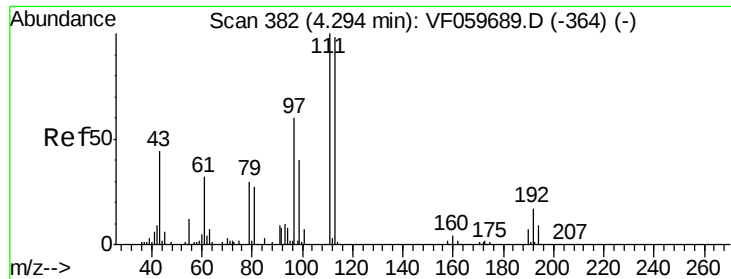
Tgt Ion: 75 Resp: 81
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.0 41.9#
 77 0.0 24.2 36.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VF0



Time-->



#37

Ethyl Acetate

Concen: 232.115 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.04 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :
MSVOA_F
ClientSampled :

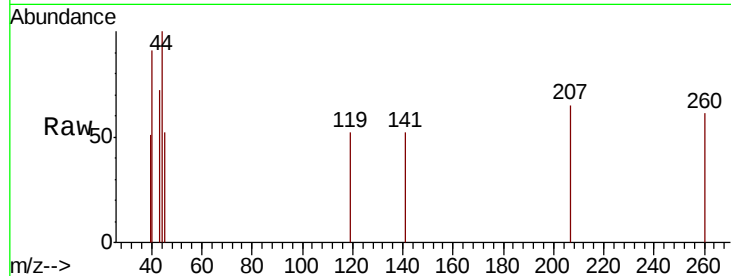
Tot Ion: 43 Resp: 87

Ion Ratio Lower Upper

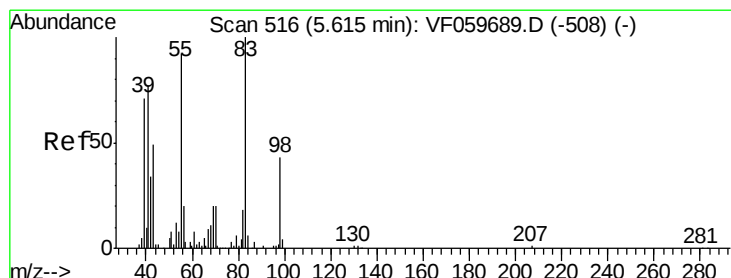
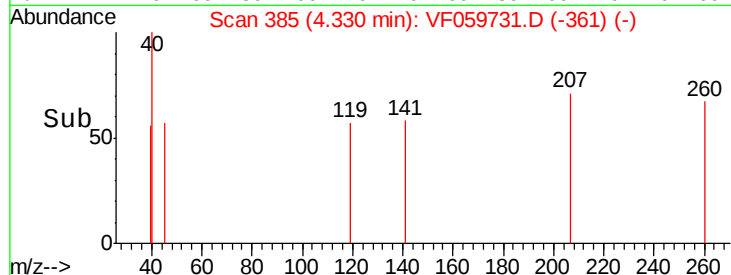
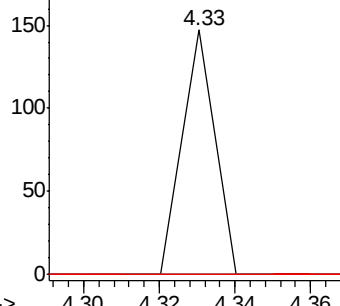
43 100

61 0.0 58.2 87.2#

70 0.0 6.0 9.0#



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

Methylcyclohexane

Concen: 100.334 ug/l

RT: 5.70 min Scan# 524

Delta R.T. 0.09 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

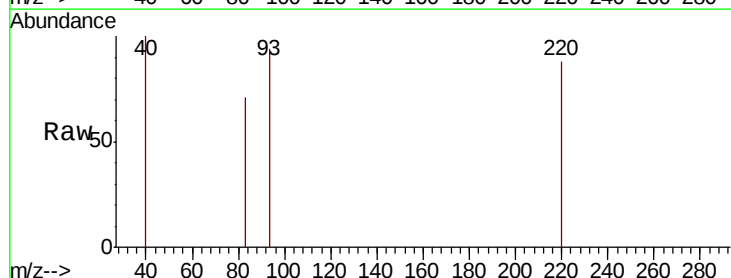
Tgt Ion: 83 Resp: 60

Ion Ratio Lower Upper

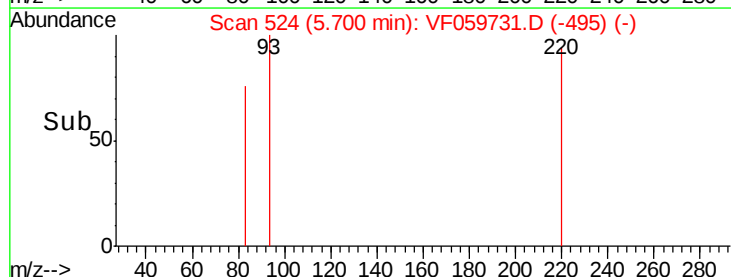
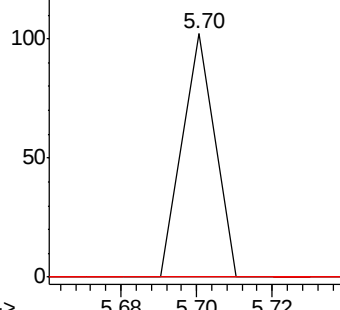
83 100

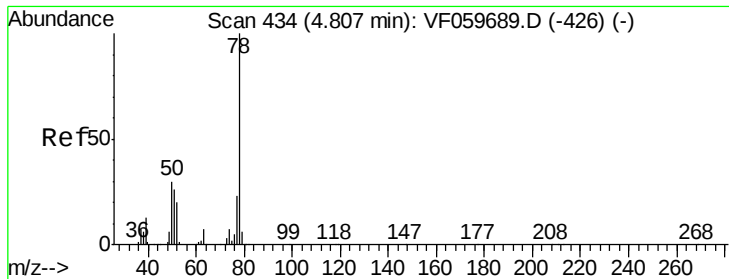
55 0.0 73.4 110.2#

98 0.0 34.2 51.4#



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: 42.182 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.14 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

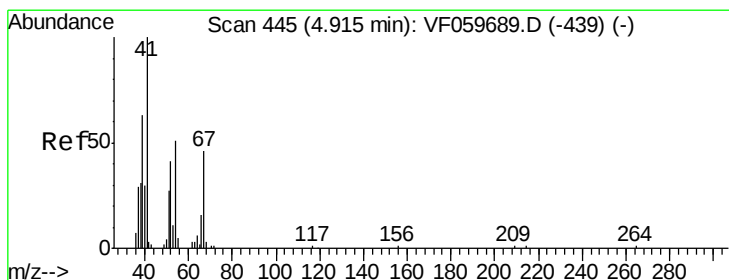
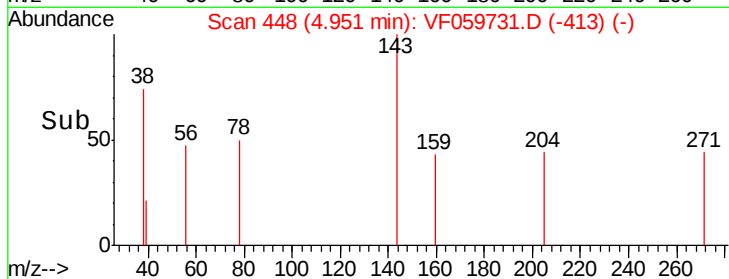
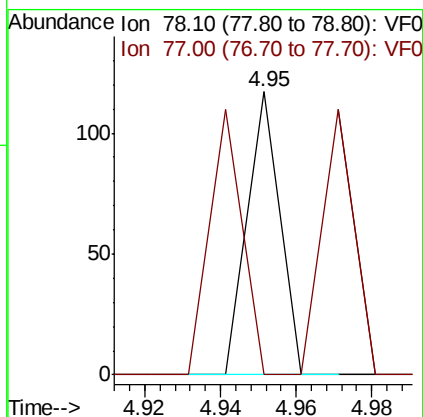
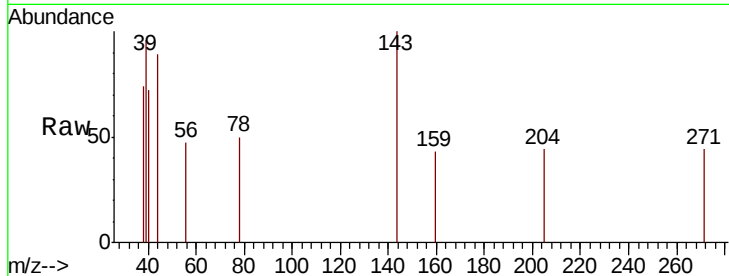
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 78 Resp: 69

Ion Ratio Lower Upper

78 100

77 0.0 18.9 28.3#



#41

Methacrylonitrile

Concen: 324.376 ug/l

RT: 4.93 min Scan# 446

Delta R.T. 0.02 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Tgt Ion: 41 Resp: 63

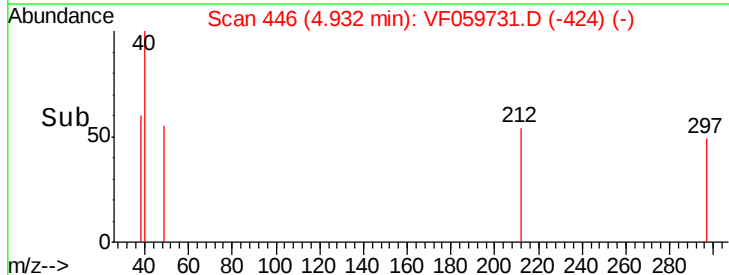
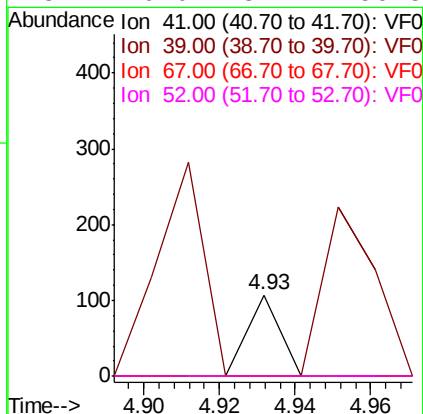
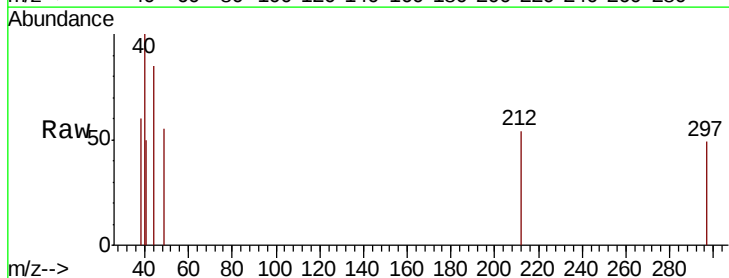
Ion Ratio Lower Upper

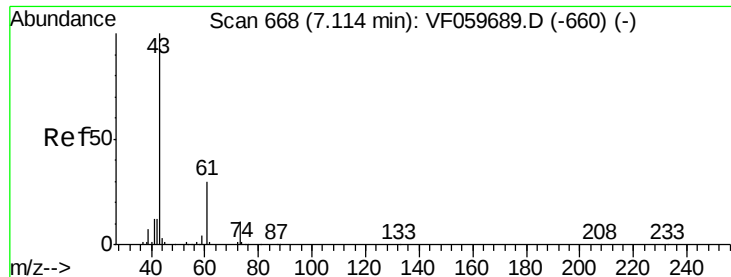
41 100

39 0.0 55.2 82.8#

67 0.0 36.2 54.2#

52 0.0 37.7 56.5#



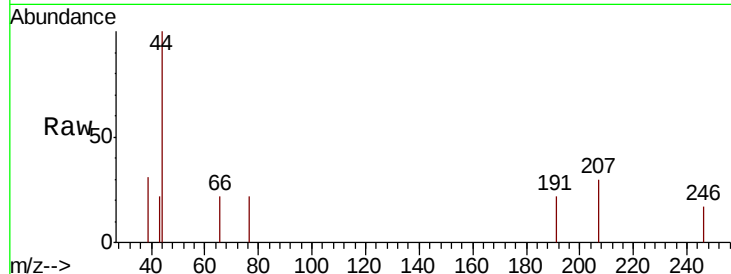


#43

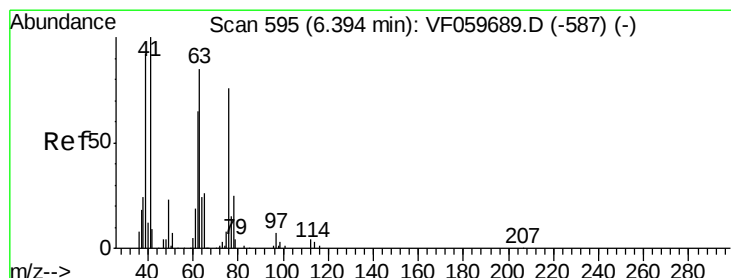
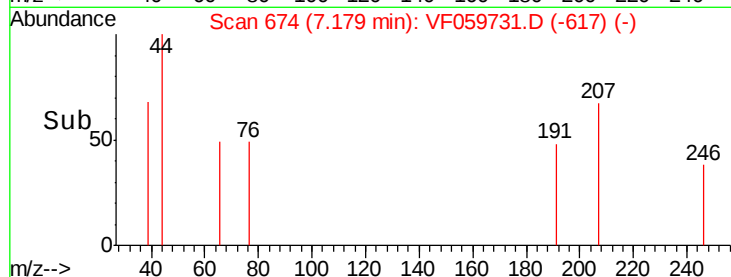
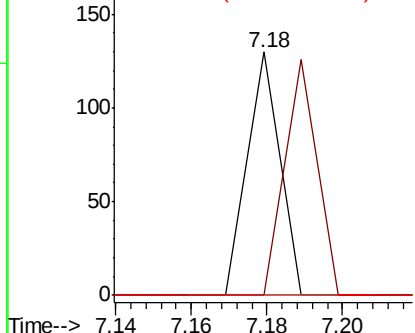
Isopropyl Acetate
 Concen: 158.979 ug/l
 RT: 7.18 min Scan# 674
 Delta R.T. 0.07 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	43.00 (42.70 to 43.70): VF0	Resp	77
Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.8	35.8#
87	0.0	0.6	1.0#



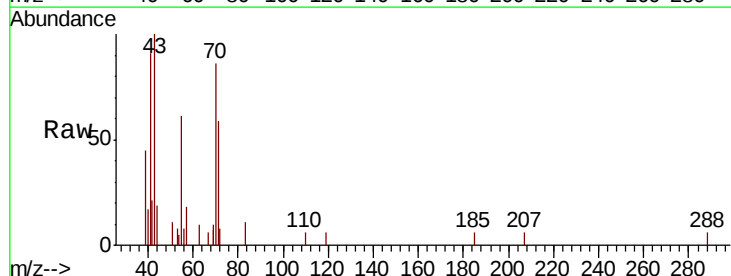
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



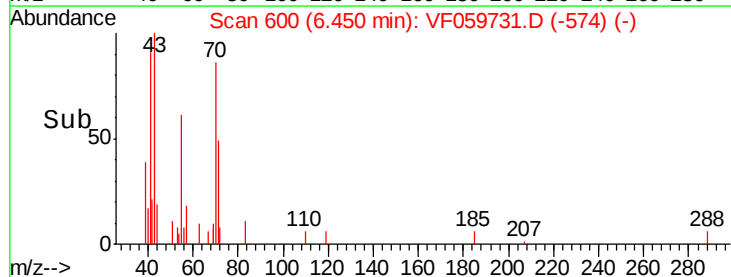
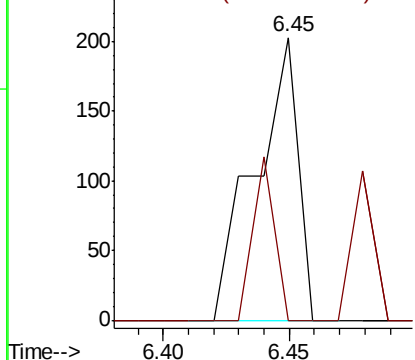
#45

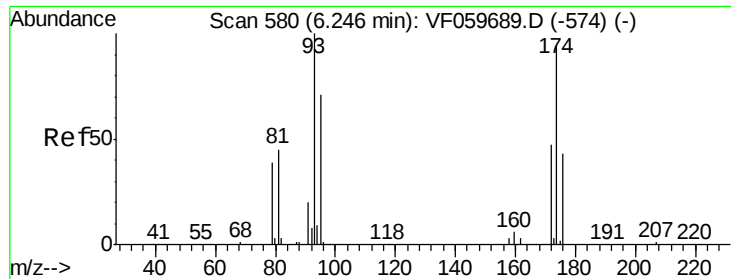
1,2-Dichloropropane
 Concen: 560.203 ug/l
 RT: 6.45 min Scan# 600
 Delta R.T. 0.06 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

Tgt Ion	63.00 (62.70 to 63.70): VF0	Resp	242
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.2	37.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0
 Ion 65.00 (64.70 to 65.70): VF0

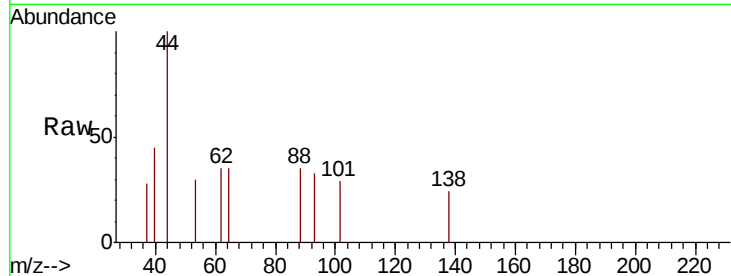




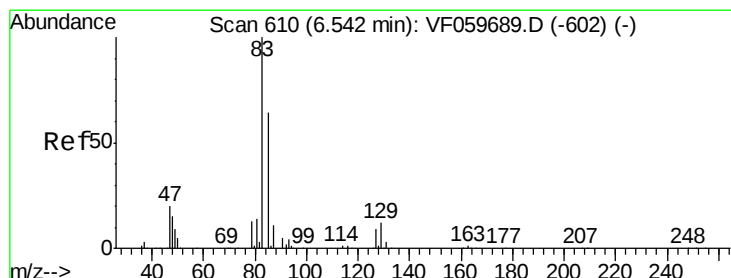
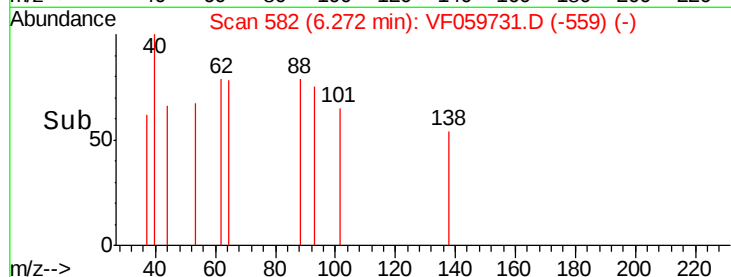
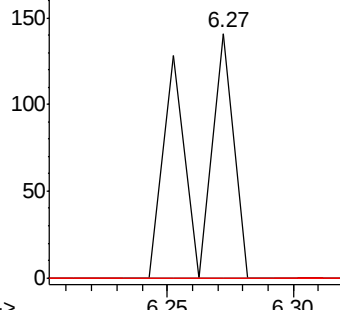
#46
Dibromomethane
Concen: 387.681 ug/l
RT: 6.27 min Scan# 582
Delta R.T. 0.03 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 93 Resp: 159
Ion Ratio Lower Upper
93 100
95 0.0 57.1 85.7#
174 0.0 74.8 112.2#

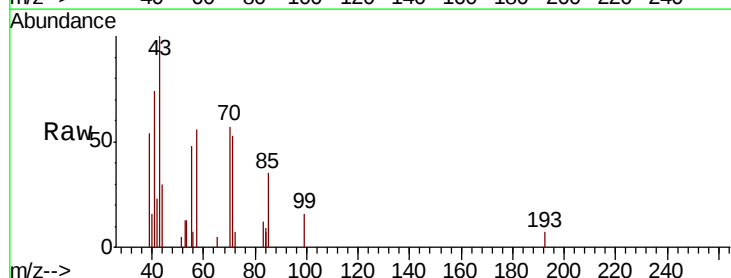


Abundance Ion 93.00 (92.70 to 93.70): VF0
Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V

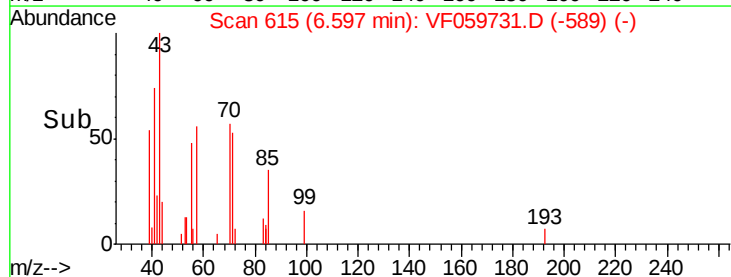
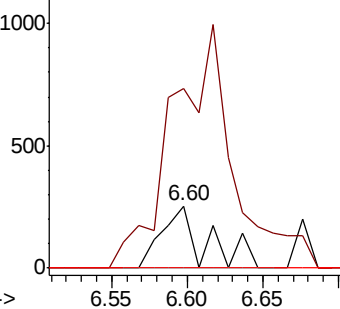


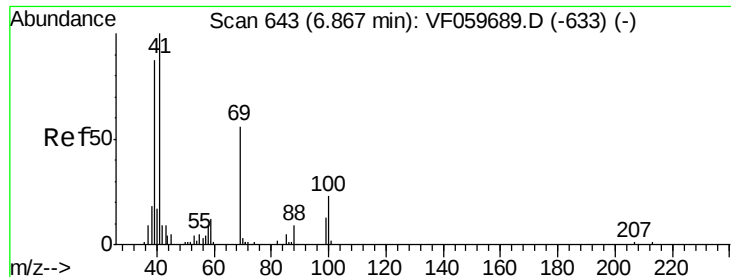
#47
Bromodichloromethane
Concen: 457.528 ug/l
RT: 6.60 min Scan# 615
Delta R.T. 0.06 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Tgt Ion: 83 Resp: 511
Ion Ratio Lower Upper
83 100
85 289.0 51.0 76.6#
127 0.0 7.3 10.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V

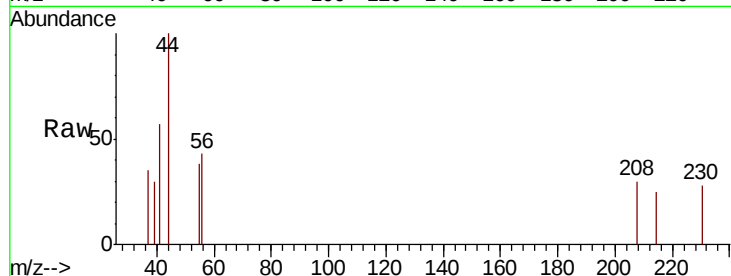




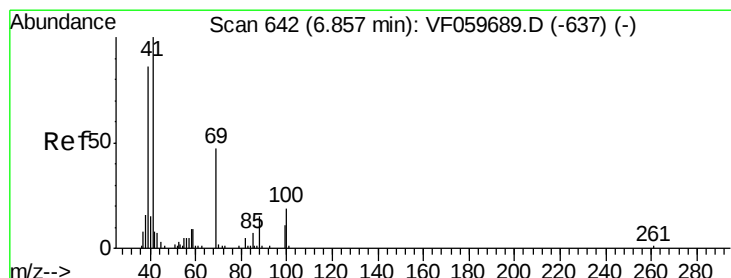
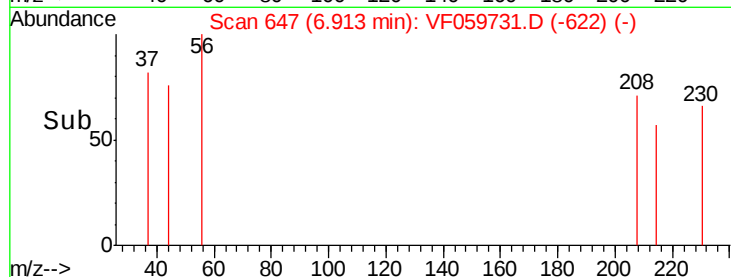
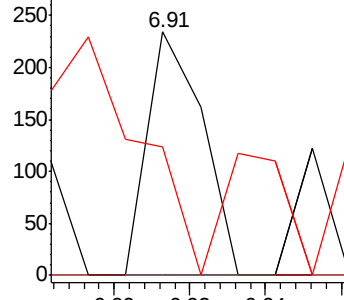
#48
Methyl methacrylate
Concen: 642.312 ug/l
RT: 6.91 min Scan# 647
Delta R.T. 0.05 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 41 Resp: 234
Ion Ratio Lower Upper
41 100
69 0.0 44.4 66.6#
39 53.0 69.4 104.2#

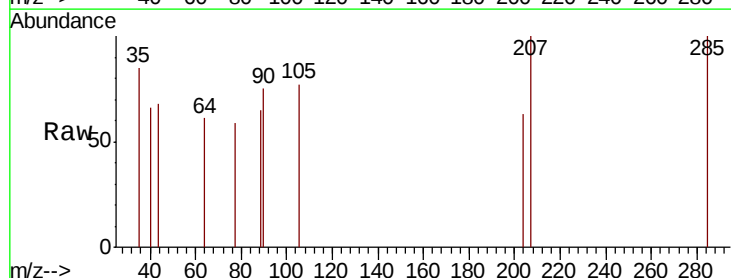


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

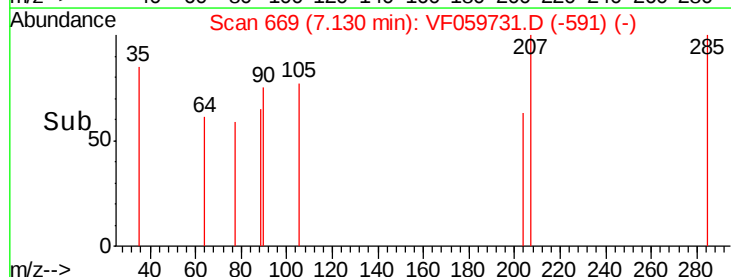
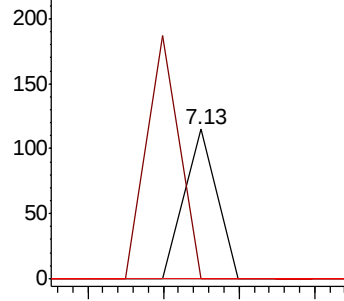


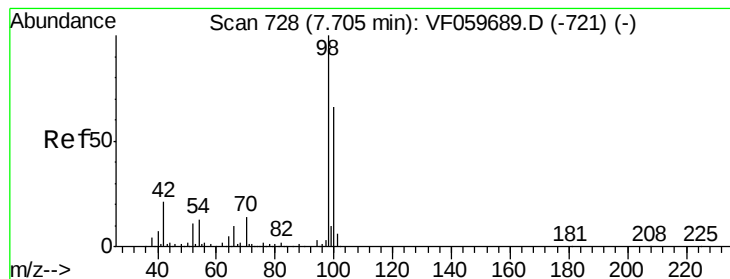
#49
1,4-Dioxane
Concen: 11680.415 ug/l
RT: 7.13 min Scan# 669
Delta R.T. 0.27 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 45.2 67.8#
58 0.0 49.0 73.6#



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: 36.190 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

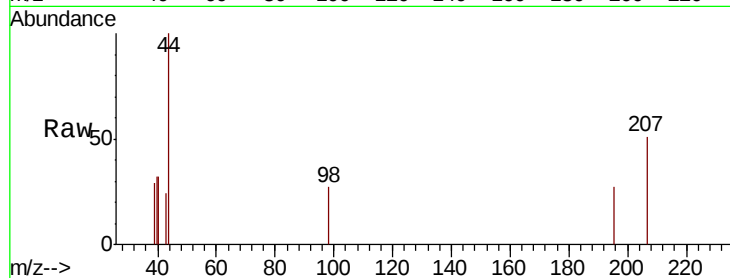
ClientSampled :

Tot Ion: 98 Resp: 71

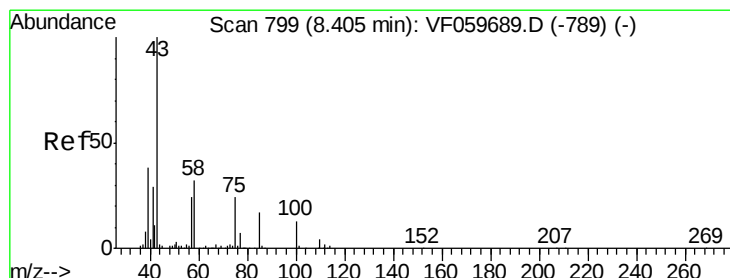
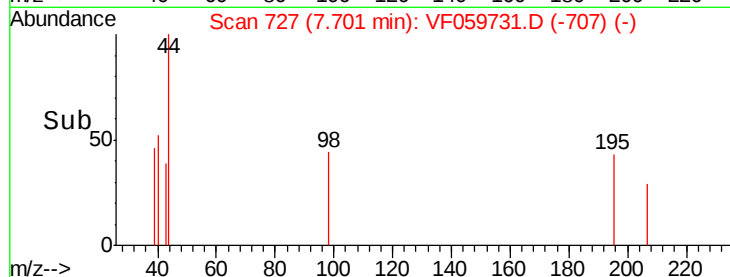
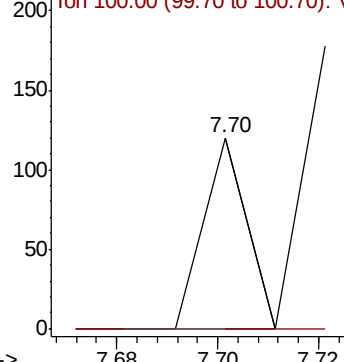
Ion Ratio Lower Upper

98 100

100 0.0 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 572.687 ug/l

RT: 8.45 min Scan# 803

Delta R.T. 0.05 min

Lab File: VF059731.D

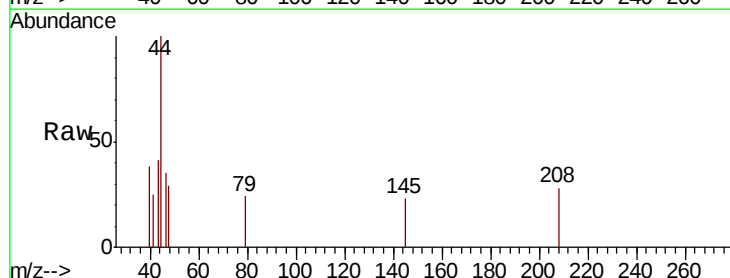
Acq: 1 Aug 2018 3:12

Tgt Ion: 43 Resp: 211

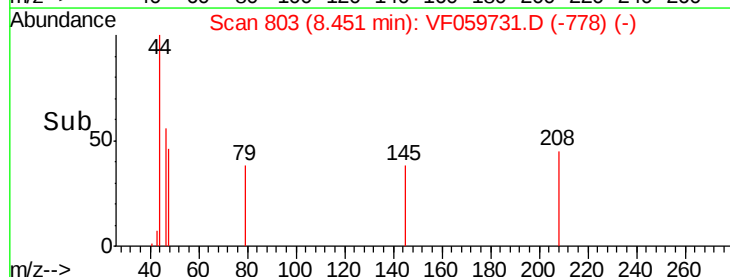
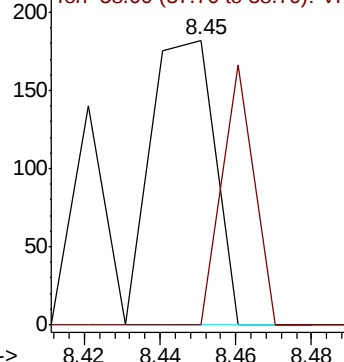
Ion Ratio Lower Upper

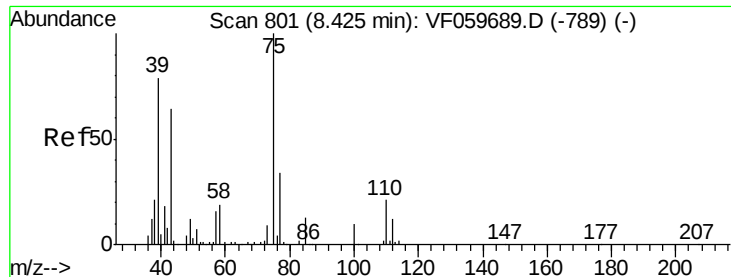
43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0





#53

t-1,3-Dichloropropene

Concen: 99.060 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

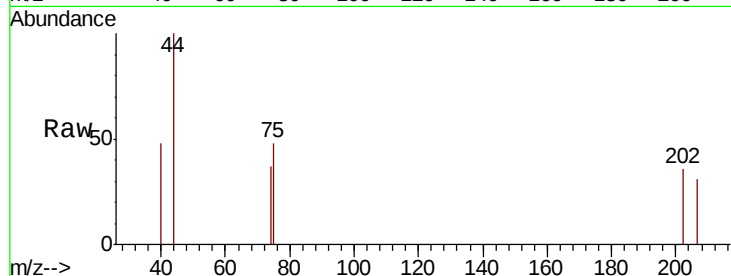
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 75 Resp: 96

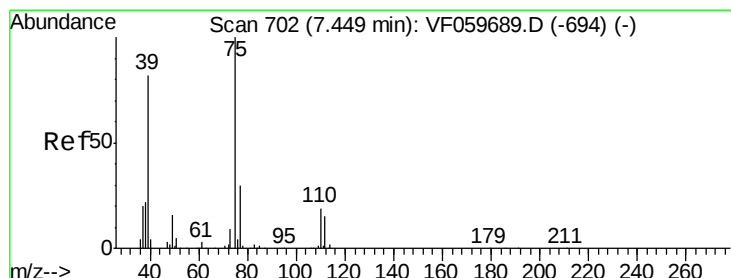
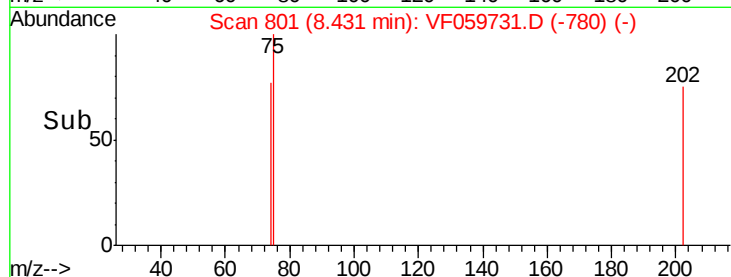
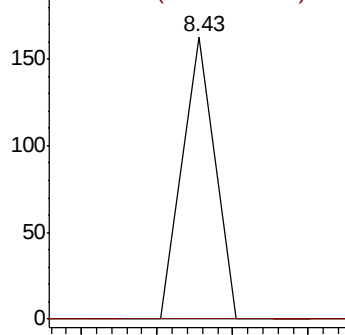
Ion Ratio Lower Upper

75 100

77 0.0 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 67.115 ug/l

RT: 7.36 min Scan# 692

Delta R.T. -0.09 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

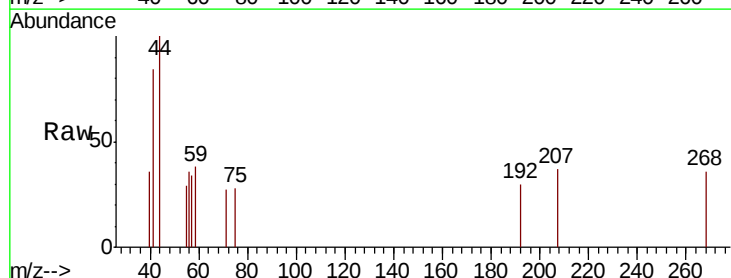
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

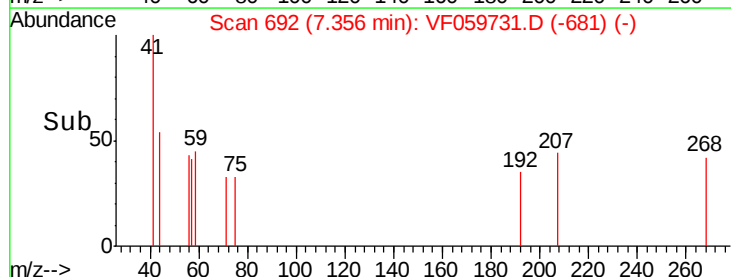
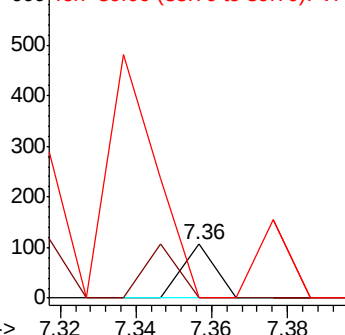
75 100

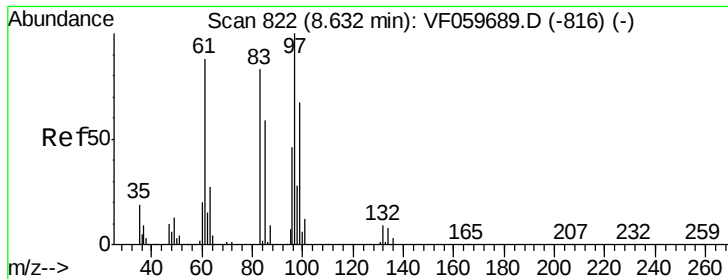
77 0.0 24.0 36.0#

39 0.0 65.4 98.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 277.640 ug/l

RT: 8.73 min Scan# 831

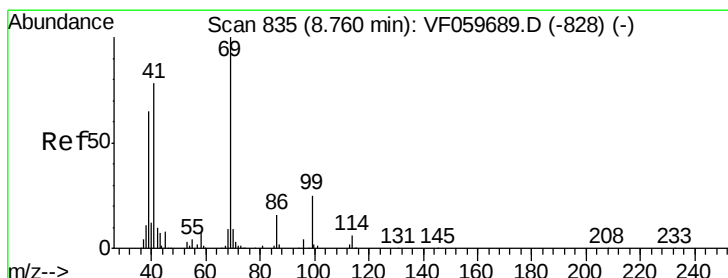
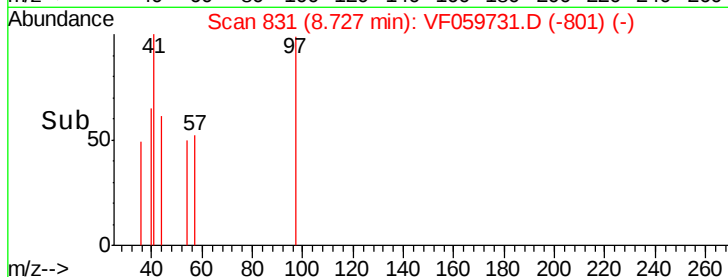
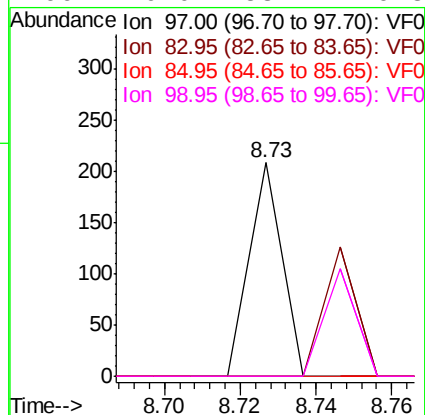
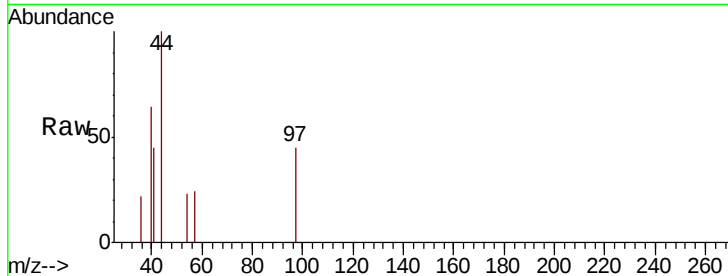
Delta R.T. 0.10 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	97	Resp:	123
Ion	Ratio	Lower	Upper
97	100		
83	0.0	66.6	100.0#
85	0.0	47.4	71.0#
99	0.0	53.2	79.8#



#56

Ethyl methacrylate

Concen: 190.470 ug/l

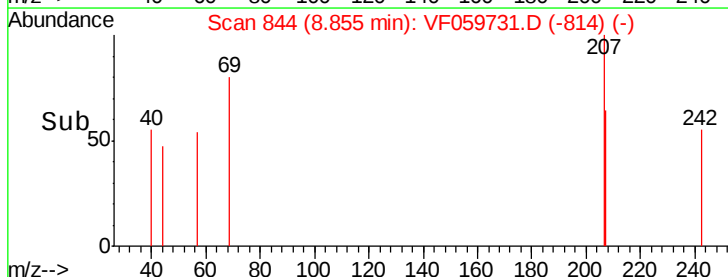
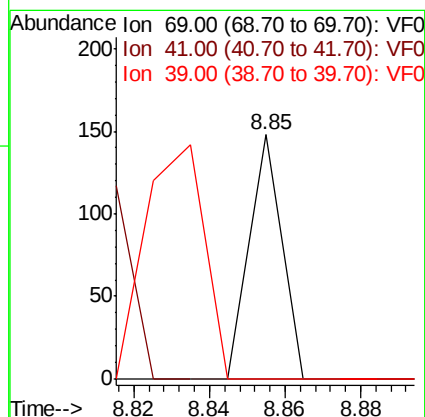
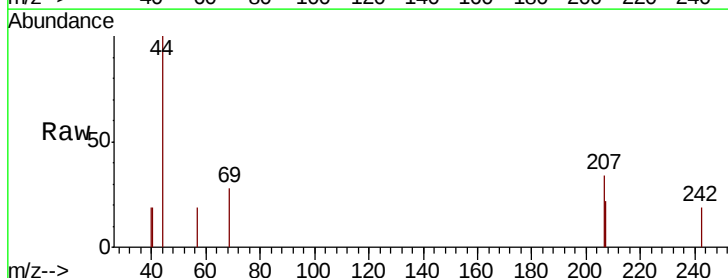
RT: 8.85 min Scan# 844

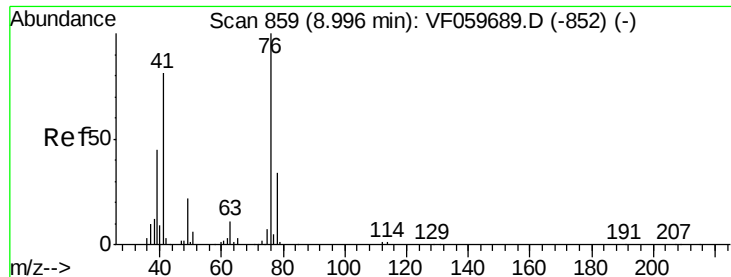
Delta R.T. 0.10 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Tgt Ion:	69	Resp:	88
Ion	Ratio	Lower	Upper
69	100		
41	0.0	62.3	93.5#
39	0.0	52.4	78.6#





#57

1,3-Dichloropropane

Concen: 99.998 ug/l

RT: 9.12 min Scan# 871

Delta R.T. 0.12 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

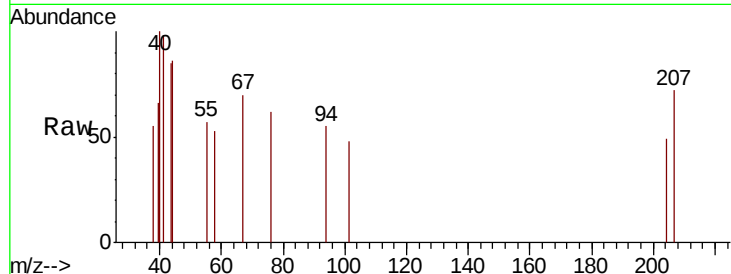
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 76

Ion Ratio Lower Upper

76 100

78 0.0 27.2 40.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

150

100

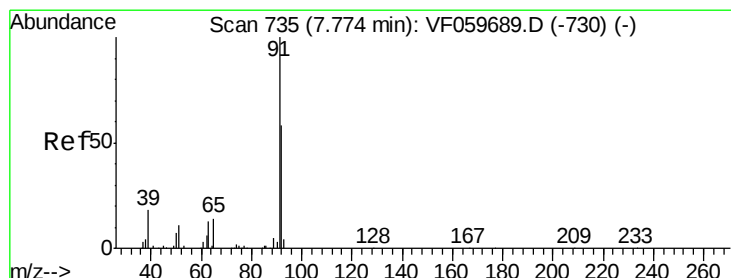
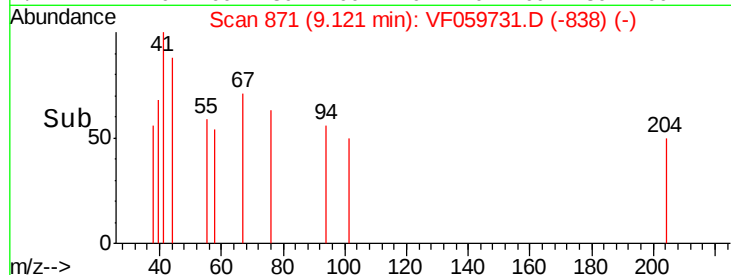
50

0

9.10 9.12 9.14

9.12

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1762.168 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059731.D

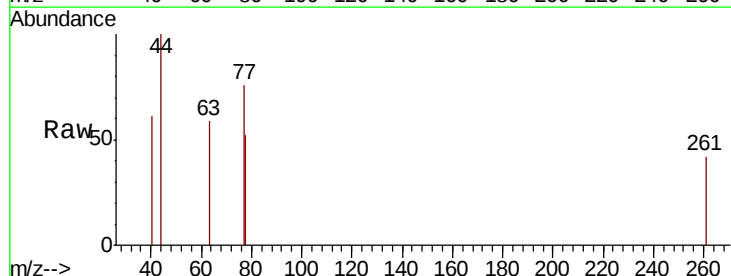
Acq: 1 Aug 2018 3:12

Tgt Ion: 63 Resp: 94

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

150

100

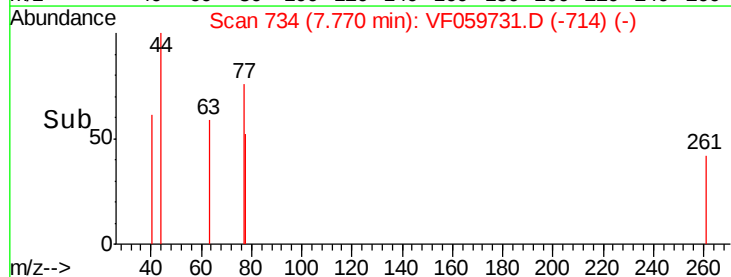
50

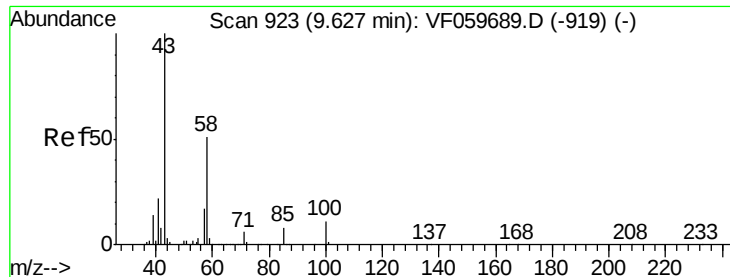
0

7.74 7.76 7.78 7.80

7.77

Time-->

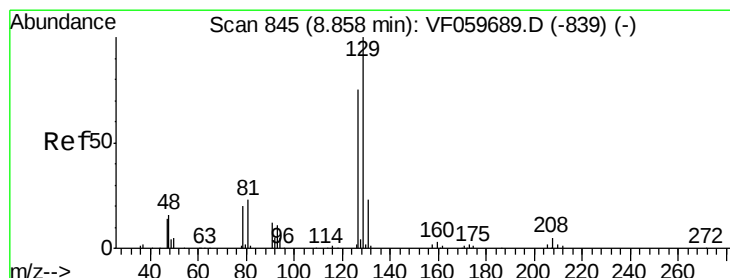
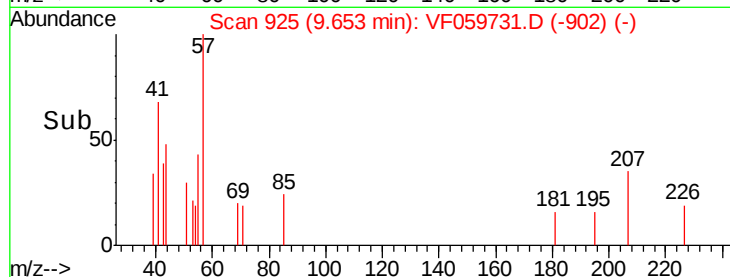
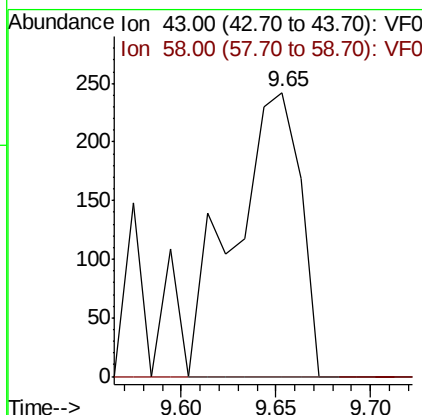
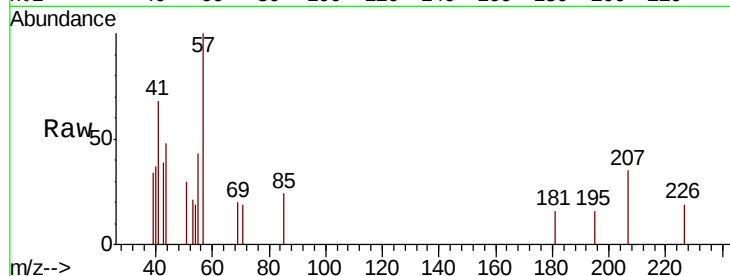




#59
2-Hexanone
Concen: 2008.468 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.03 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

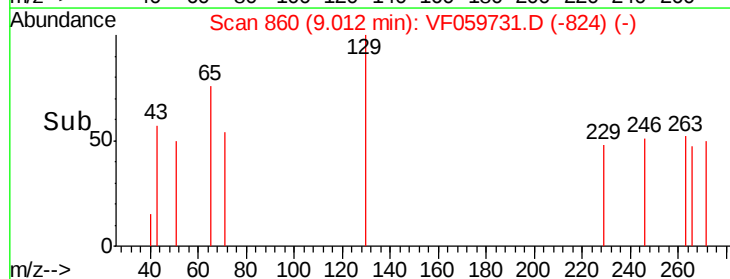
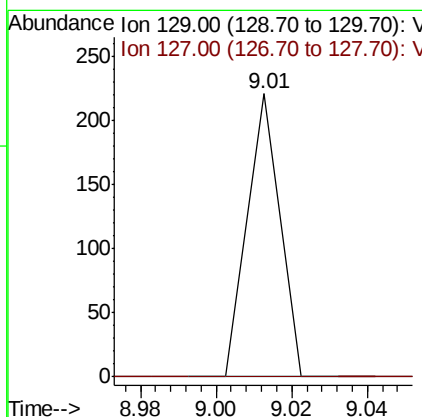
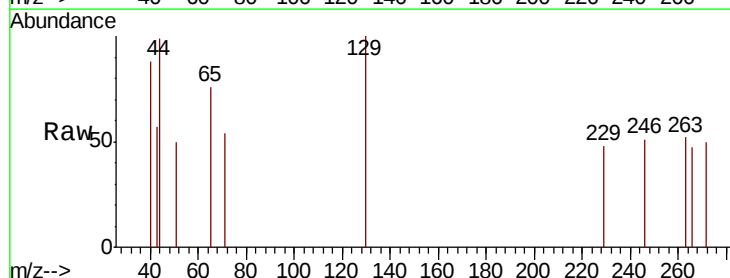
Instrument :
MSVOA_F
ClientSampleId :

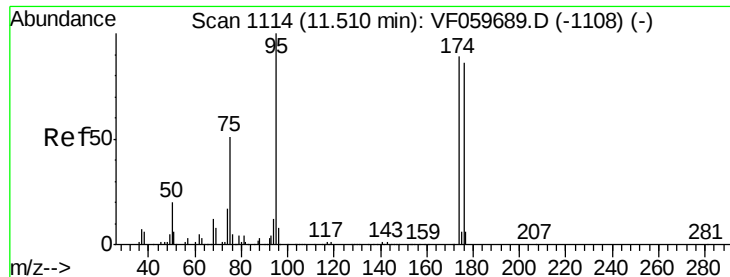
Tot Ion: 43 Resp: 593
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.8#



#60
Dibromochloromethane
Concen: 167.577 ug/l
RT: 9.01 min Scan# 860
Delta R.T. 0.15 min
Lab File: VF059731.D
Acq: 1 Aug 2018 3:12

Tgt Ion:129 Resp: 131
Ion Ratio Lower Upper
129 100
127 0.0 37.7 113.1#





#62

4-Bromofluorobenzene

Concen: 73.657 ug/l

RT: 11.57 min Scan# 1119

Delta R.T. 0.06 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

ClientSampleId :

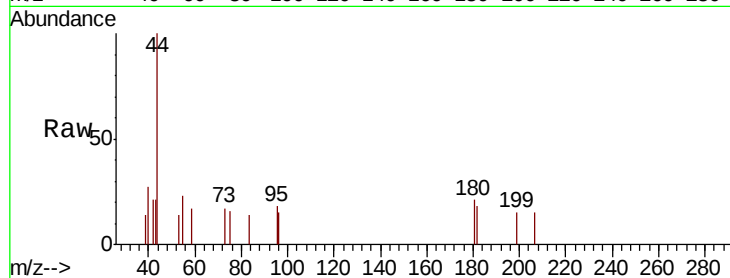
Tot Ion: 95 Resp: 80

Ion Ratio Lower Upper

95 100

174 0.0 0.0 178.4

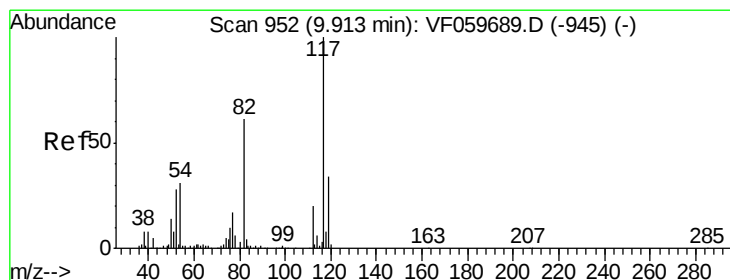
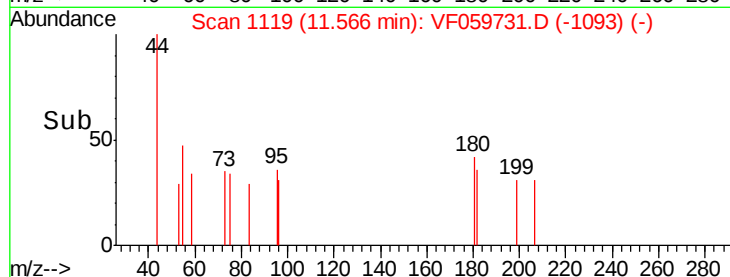
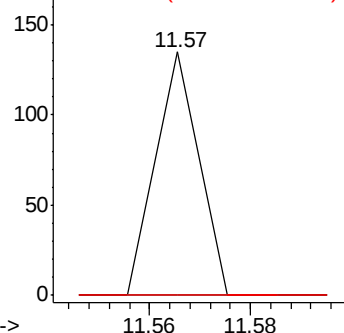
176 0.0 0.0 173.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

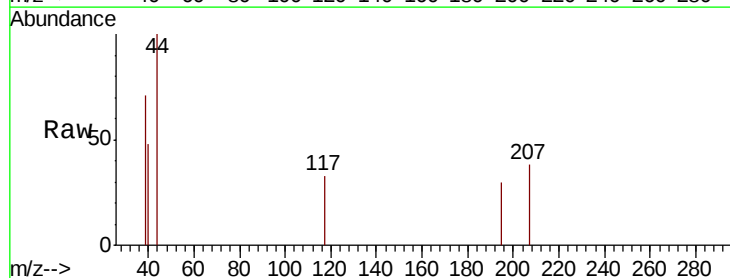
Tgt Ion: 117 Resp: 137

Ion Ratio Lower Upper

117 100

82 0.0 49.0 73.4#

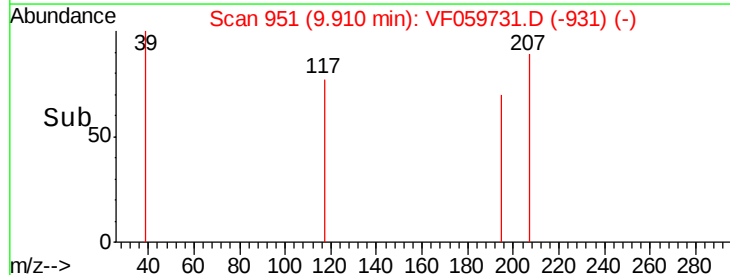
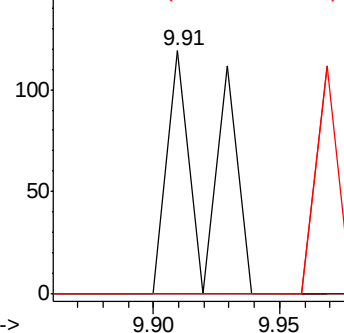
119 0.0 27.3 40.9#

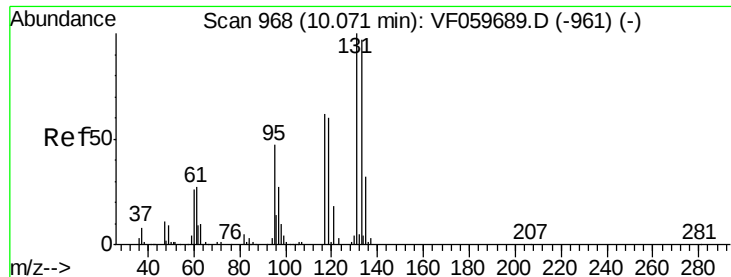


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 49.239 ug/l

RT: 10.19 min Scan# 979

Delta R.T. 0.11 min

Lab File: VF059731.D

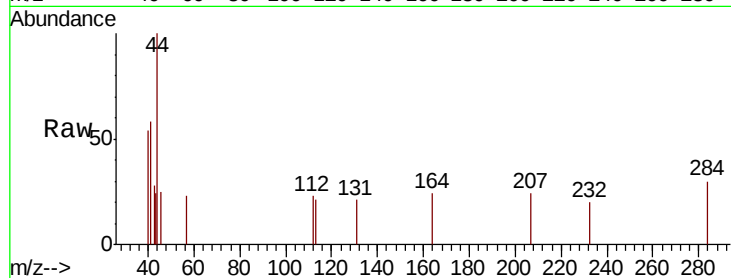
Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion	Ratio	Lower	Upper
131	100		
133	0.0	48.5	145.5#
119	0.0	30.3	90.8#

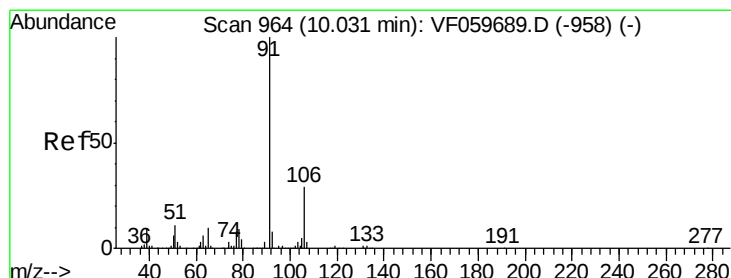
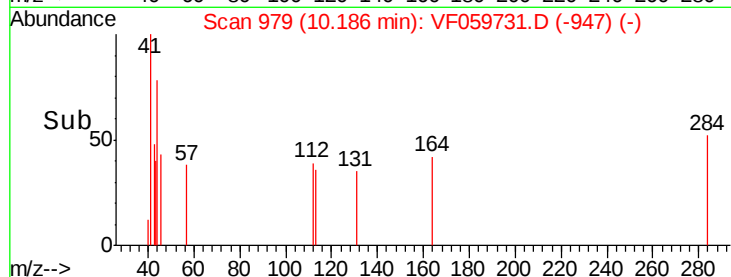
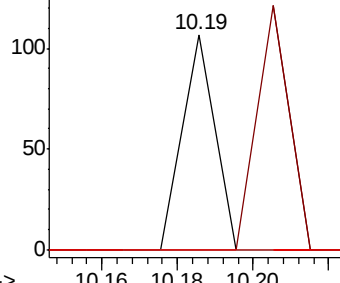


Abundance

Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 12.654 ug/l

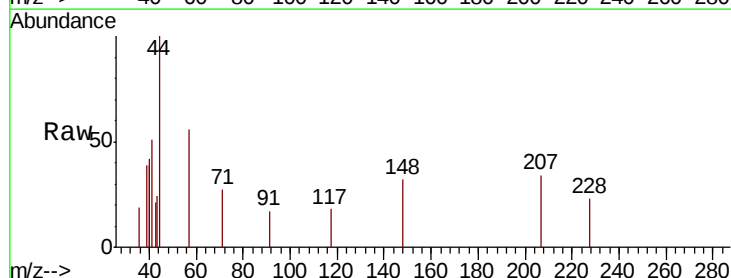
RT: 10.14 min Scan# 974

Delta R.T. 0.10 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

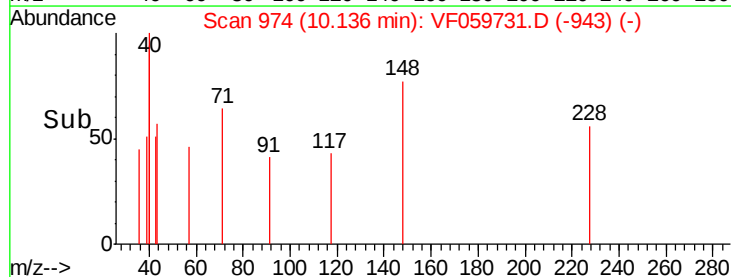
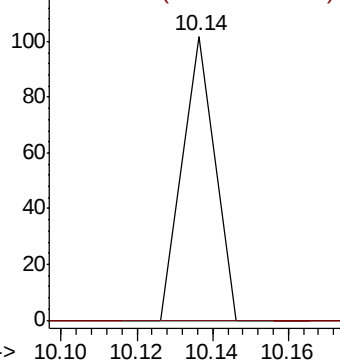
Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	22.9	34.3#

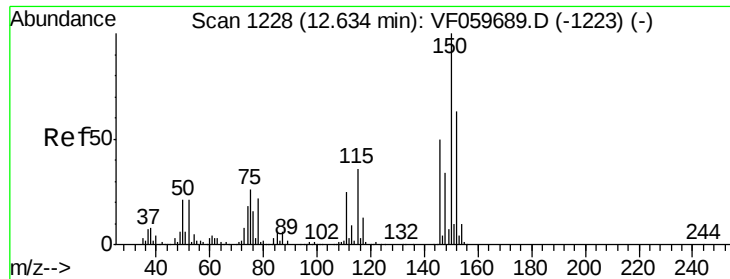


Abundance

Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.69 min Scan# 1233

Delta R.T. 0.06 min

Lab File: VF059731.D

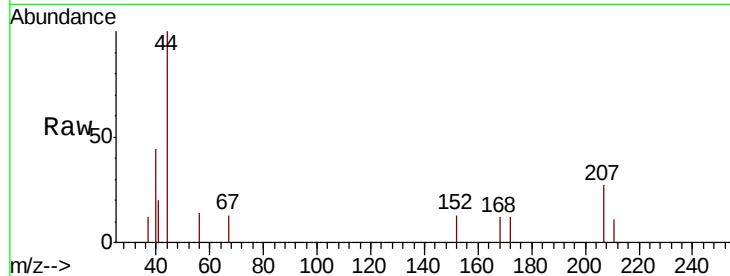
Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

ClientSampleId :

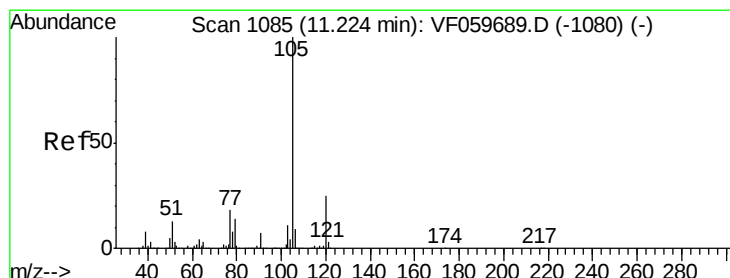
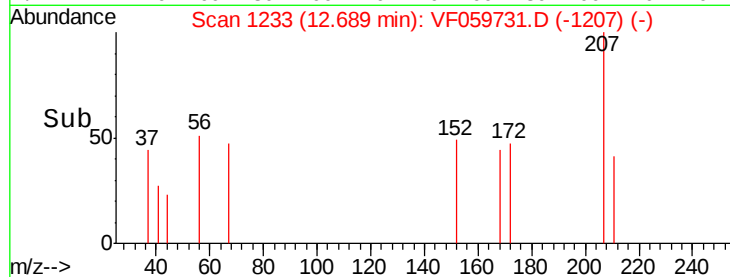
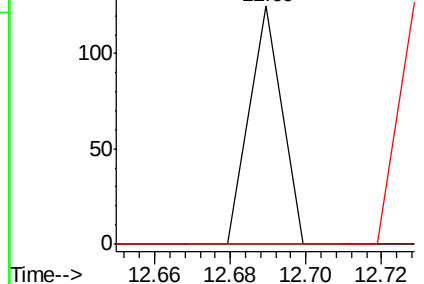
Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	28.2	84.6#
150	0.0	0.0	316.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#73

Isopropylbenzene

Concen: 17.094 ug/l

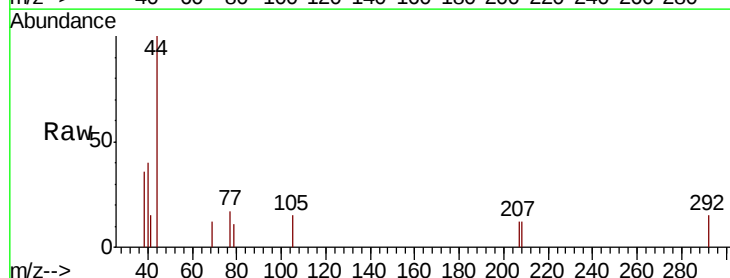
RT: 11.25 min Scan# 1087

Delta R.T. 0.03 min

Lab File: VF059731.D

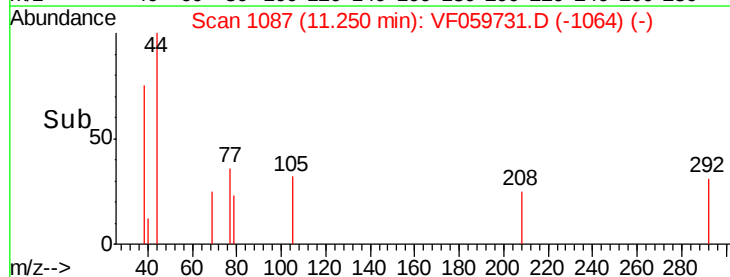
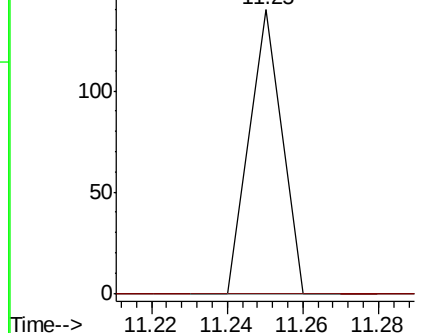
Acq: 1 Aug 2018 3:12

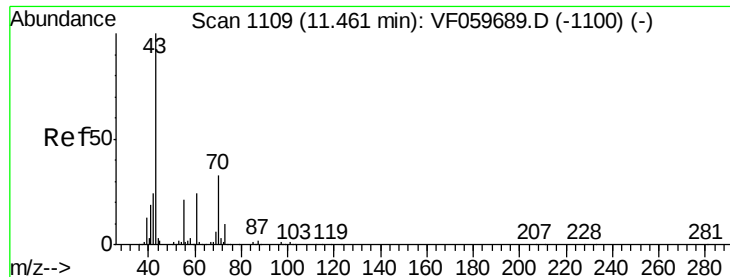
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.4	37.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 135.511 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF059731.D

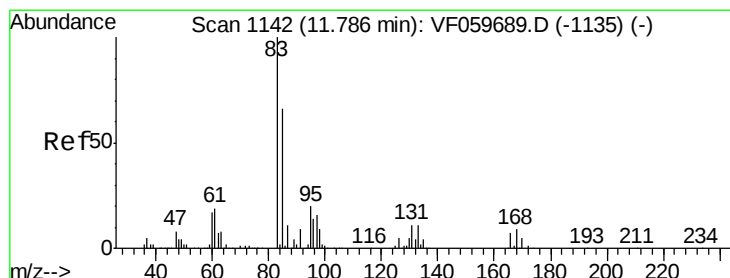
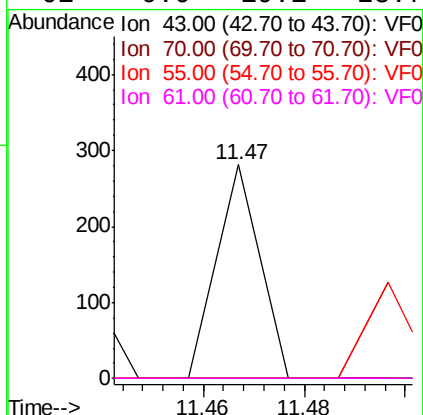
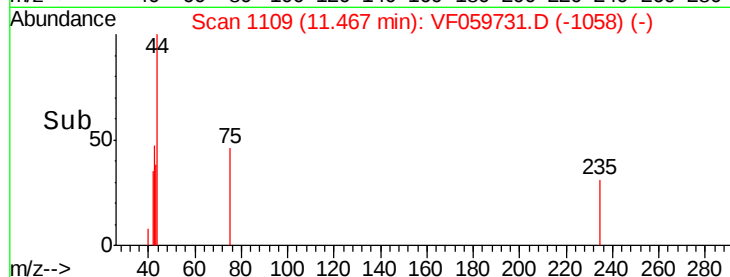
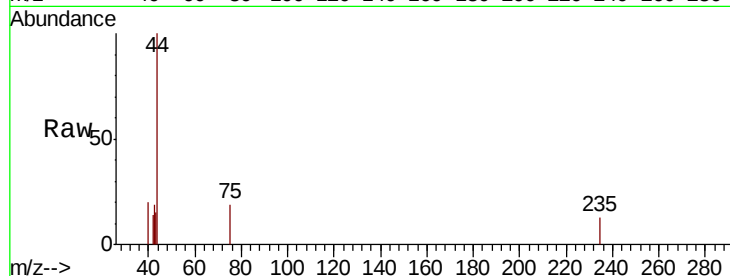
Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	43	Resp:	166
Ion	Ratio	Lower	Upper
43	100		
70	0.0	26.3	39.5#
55	0.0	16.6	25.0#
61	0.0	19.1	28.7#



#75

1,1,2,2-Tetrachloroethane

Concen: 80.963 ug/l

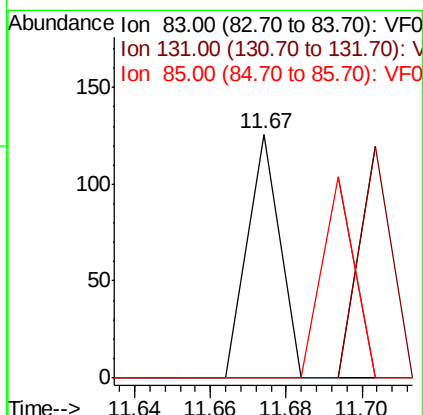
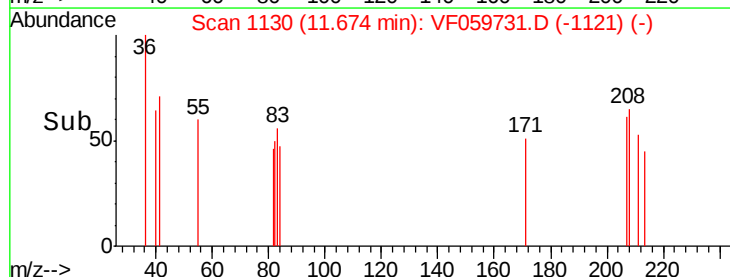
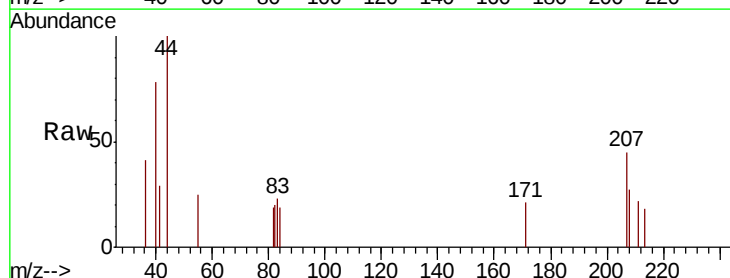
RT: 11.67 min Scan# 1130

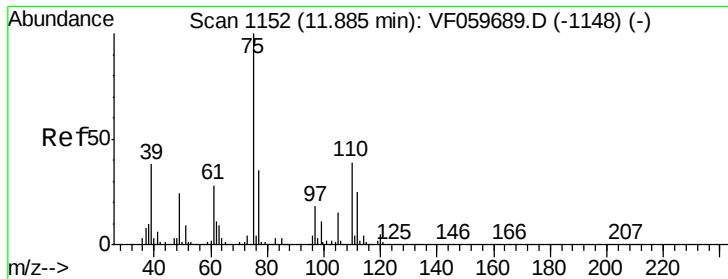
Delta R.T. -0.11 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Tgt Ion:	83	Resp:	74
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.8	17.3#
85	0.0	32.8	98.3#

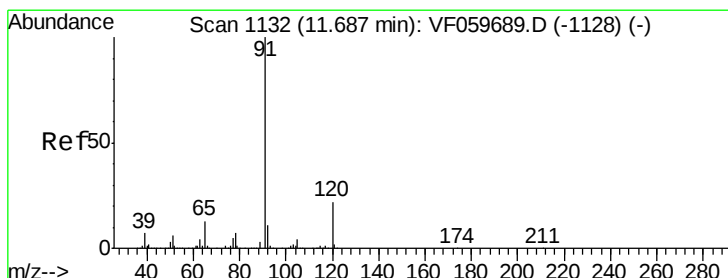
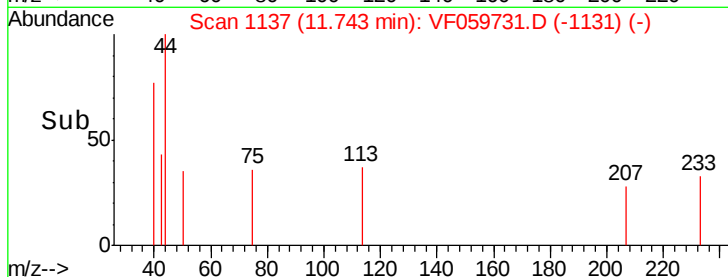
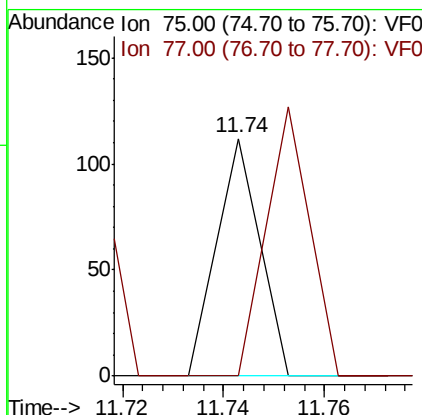
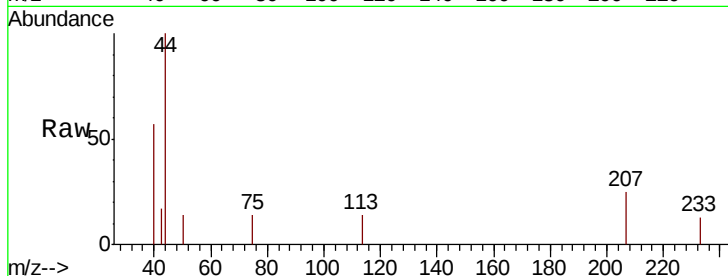




#76
 1,2,3-Trichloropropane
 Concen: 84.920 ug/l
 RT: 11.74 min Scan# 1137
 Delta R.T. -0.14 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

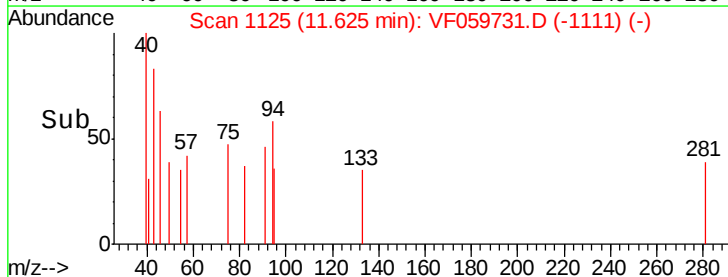
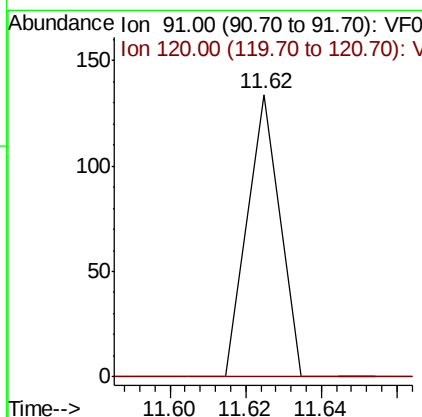
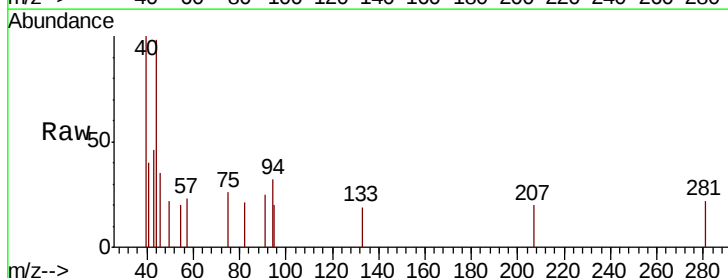
Instrument :
 MSVOA_F
 ClientSampled :

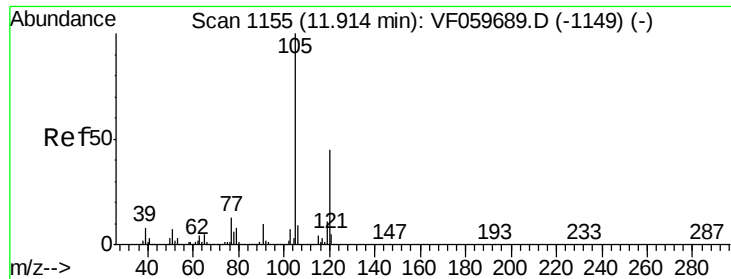
Tot Ion: 75 Resp: 66
 Ion Ratio Lower Upper
 75 100
 77 0.0 18.0 54.0#



#78
 n-propylbenzene
 Concen: 12.072 ug/l
 RT: 11.62 min Scan# 1125
 Delta R.T. -0.06 min
 Lab File: VF059731.D
 Acq: 1 Aug 2018 3:12

Tgt Ion: 91 Resp: 79
 Ion Ratio Lower Upper
 91 100
 120 0.0 11.0 33.0#





#80

1,3,5-Trimethylbenzene

Concen: 34.832 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. 0.01 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

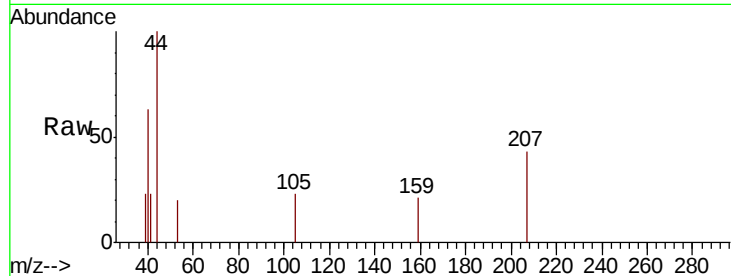
ClientSampled :

Tot Ion:105 Resp: 140

Ion Ratio Lower Upper

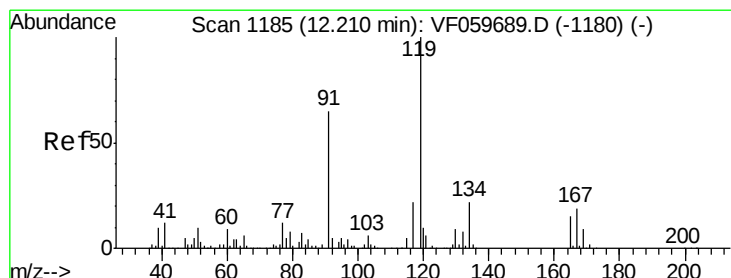
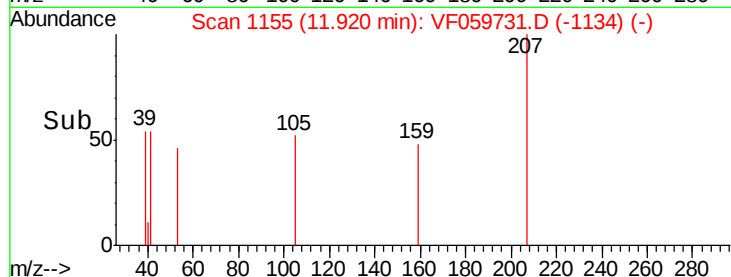
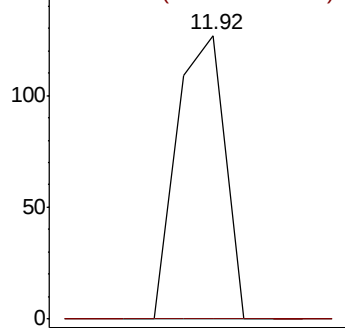
105 100

120 0.0 22.7 68.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#83

tert-Butylbenzene

Concen: 16.060 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. 0.09 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

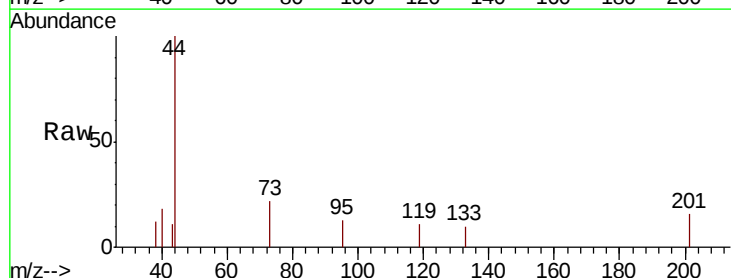
Tgt Ion:119 Resp: 70

Ion Ratio Lower Upper

119 100

91 0.0 32.8 98.4#

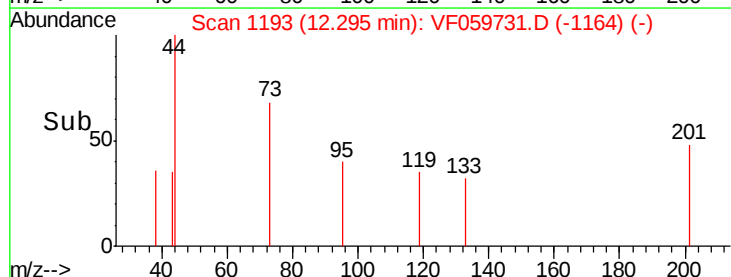
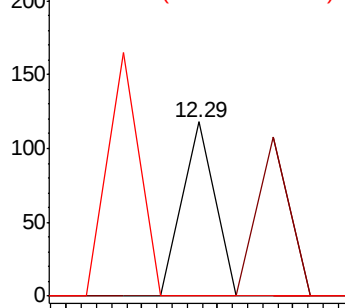
134 0.0 10.9 32.7#

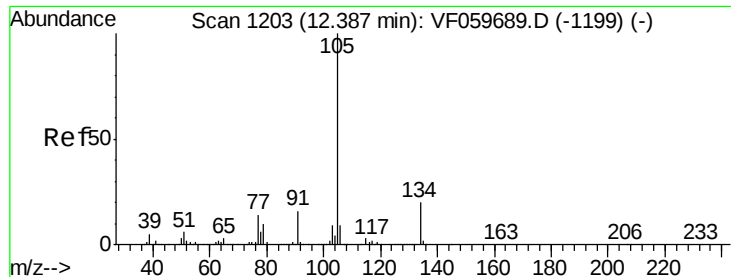


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: 7.972 ug/l

RT: 12.48 min Scan# 1212

Delta R.T. 0.10 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

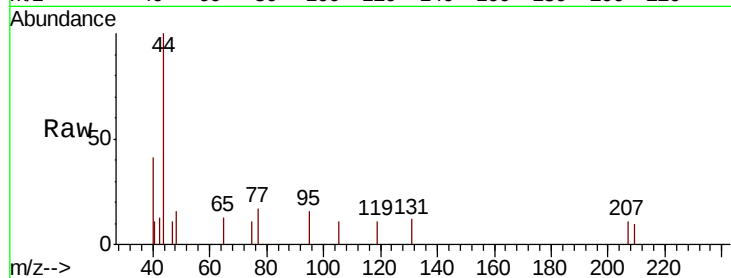
ClientSampleId :

Tot Ion:105 Resp: 62

Ion Ratio Lower Upper

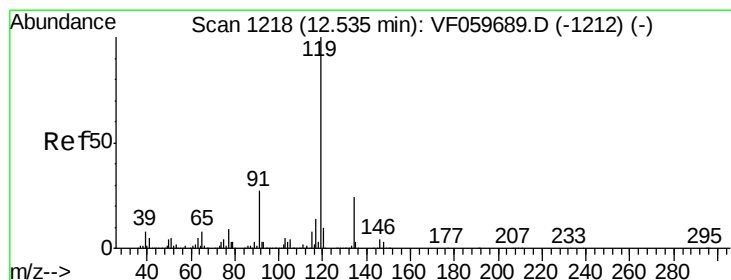
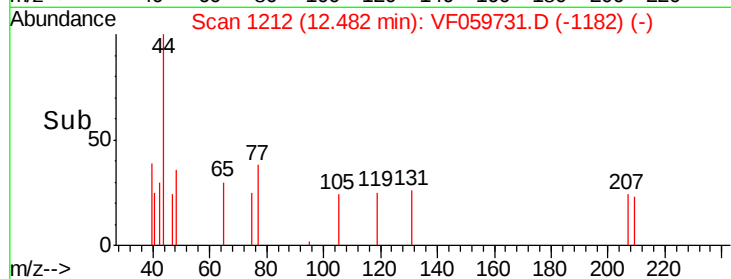
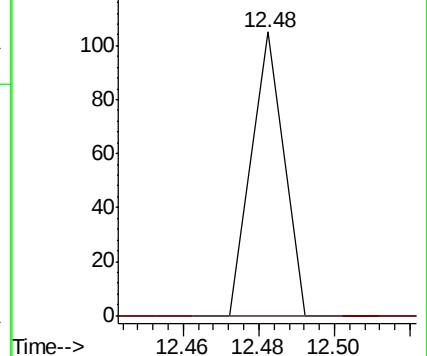
105 100

134 0.0 9.8 29.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 10.109 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. 0.10 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

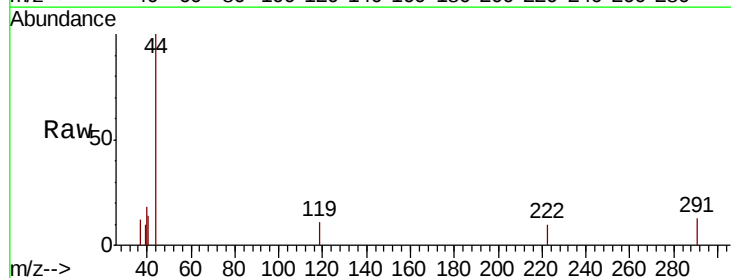
Tgt Ion:119 Resp: 63

Ion Ratio Lower Upper

119 100

134 0.0 12.2 36.6#

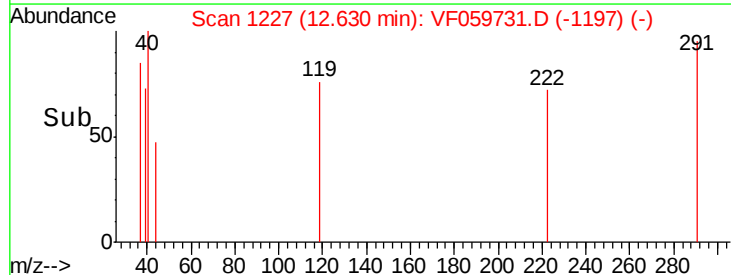
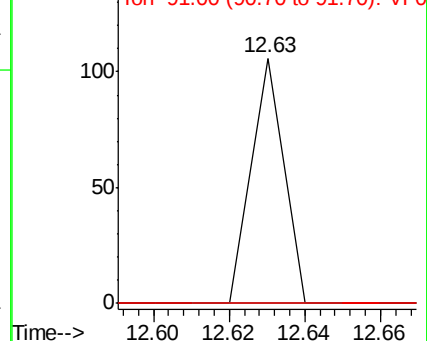
91 0.0 13.4 40.2#

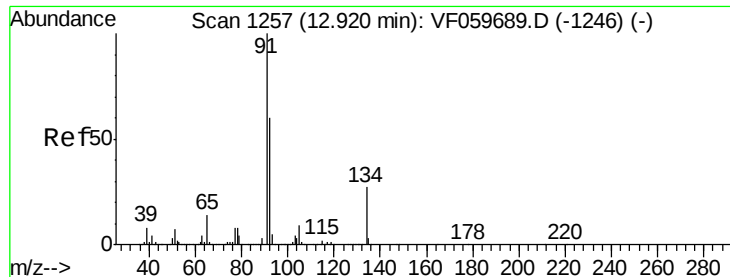


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#89

n-Butylbenzene

Concen: 28.474 ug/l

RT: 12.93 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VF059731.D

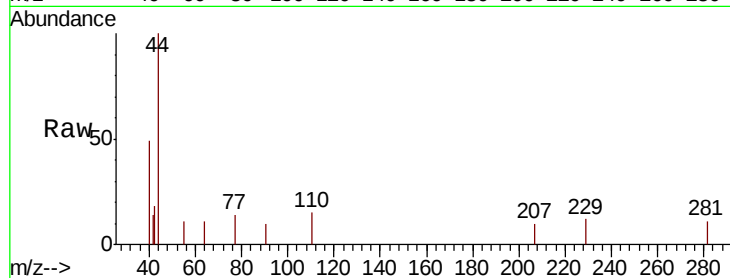
Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

ClientSampled :

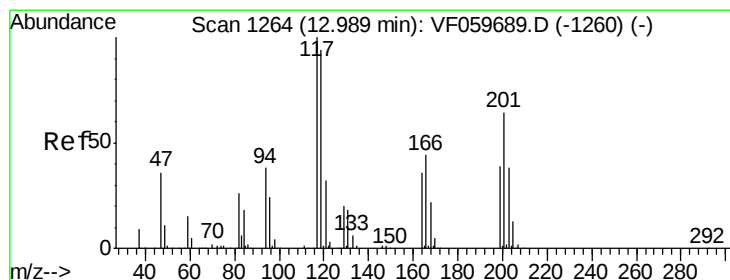
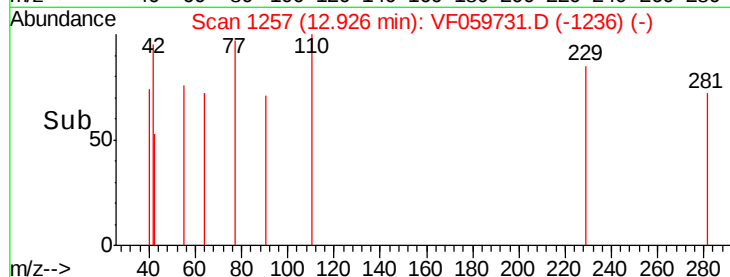
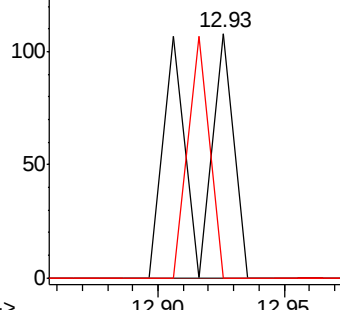
Tot Ion:	91	Resp:	127
Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.1	90.3#
134	0.0	13.7	41.0#



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



#90

Hexachloroethane

Concen: 59.608 ug/l

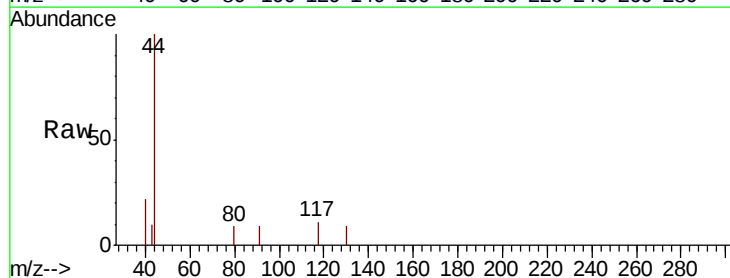
RT: 12.91 min Scan# 1255

Delta R.T. -0.08 min

Lab File: VF059731.D

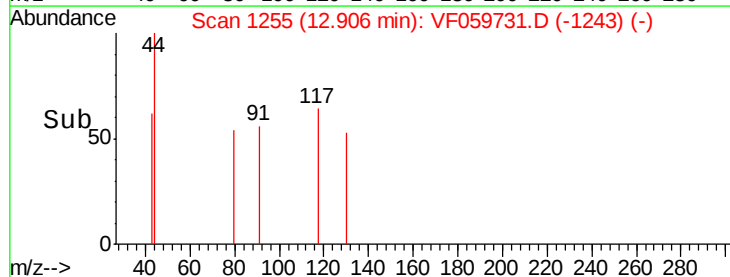
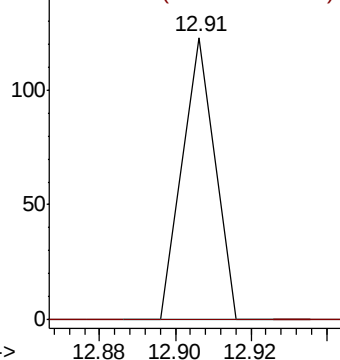
Acq: 1 Aug 2018 3:12

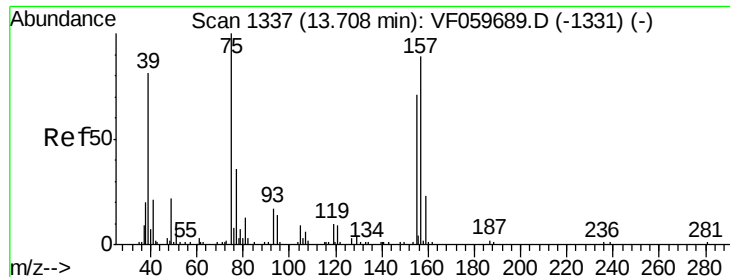
Tgt Ion:	117	Resp:	73
Ion	Ratio	Lower	Upper
117	100		
201	0.0	31.9	95.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 371.472 ug/l

RT: 13.73 min Scan# 1339

Delta R.T. 0.03 min

Lab File: VF059731.D

Acq: 1 Aug 2018 3:12

Instrument :

MSVOA_F

ClientSampleId :

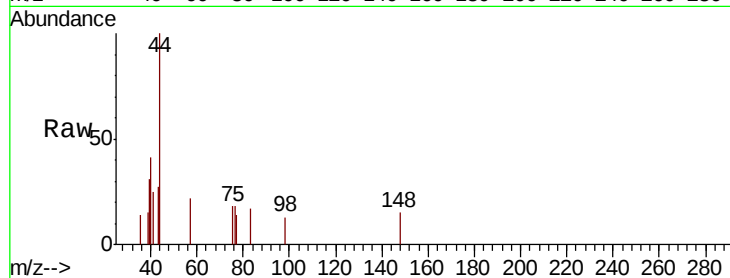
Tot Ion: 75 Resp: 83

Ion Ratio Lower Upper

75 100

155 0.0 35.4 106.2#

157 0.0 44.4 133.2#



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

