

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059348.D
 Acq On : 27 Jun 2018 19:27
 Operator : VA/AP
 Sample : J3677-08
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 28 01:44:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	3651	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.76	114	4354	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	2687	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	766	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	1121	23.76	ug/l	0.00
Spiked Amount				50.000		
Recovery						47.52%
35) Dibromofluoromethane	4.26	113	444	13.96	ug/l	-0.02
Spiked Amount				50.000		
Recovery						27.92%
50) Toluene-d8	7.70	98	3242	41.16	ug/l	0.00
Spiked Amount				50.000		
Recovery						82.32%
62) 4-Bromofluorobenzene	11.51	95	977	21.99	ug/l	0.00
Spiked Amount				50.000		
Recovery						43.98%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.11	85	95	2.848	ug/l #	40
3) Chloromethane	1.02	50	82	3.659	ug/l #	41
4) Vinyl Chloride	1.08	62	59	2.675	ug/l #	42
5) Bromomethane	1.30	94	59	Below Cal	#	4
8) Diethyl Ether	1.73	74	82	7.332	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	2.05	101	71	2.789	ug/l #	18
11) Tert butyl alcohol	2.75	59	94	29.933	ug/l #	66
12) 1,1-Dichloroethene	1.93	96	69	3.206	ug/l #	1
13) Acrolein	2.11	56	61	23.198	ug/l #	10
14) Allyl chloride	2.19	41	69	1.708	ug/l #	60
15) Acrylonitrile	3.00	53	74	13.382	ug/l #	9
16) Acetone	2.32	43	635	45.561	ug/l #	65
17) Carbon Disulfide	1.83	76	125	2.469	ug/l #	71
18) Methyl Acetate	2.47	43	345	15.399	ug/l #	61
19) Methyl tert-butyl Ether	2.53	73	81	1.009	ug/l #	63
20) Methylene Chloride	2.27	84	253	2.552	ug/l #	55
21) trans-1,2-Dichloroethene	2.41	96	72	3.136	ug/l #	1
23) Vinyl Acetate	3.35	43	129	2.264	ug/l #	79
24) 1,1-Dichloroethane	3.07	63	71	1.280	ug/l #	90
25) 2-Butanone	4.55	43	293	17.984	ug/l #	59
26) 2,2-Dichloropropane	3.73	77	83	2.169	ug/l #	62
27) cis-1,2-Dichloroethene	3.63	96	69	1.979	ug/l #	1
28) Bromochloromethane	3.94	49	119	1.466	ug/l #	6
29) Tetrahydrofuran	4.27	42	62	1.411	ug/l #	36
31) Cyclohexane	3.87	56	149	4.100	ug/l #	13
32) 1,1,1-Trichloroethane	4.11	97	100	1.702	ug/l #	21
36) 1,1-Dichloropropene	4.45	75	72	1.893	ug/l #	44
37) Ethyl Acetate	4.23	43	155	5.039	ug/l #	26
39) Methylcyclohexane	5.72	83	62	1.839	ug/l #	15
41) Methacrylonitrile	4.90	41	203	15.646	ug/l #	24
42) 1,2-Dichloroethane	5.15	62	72	1.461	ug/l #	83
43) Isopropyl Acetate	7.08	43	61	1.925	ug/l #	52
47) Bromodichloromethane	6.51	83	66	1.304	ug/l #	26
48) Methyl methacrylate	6.86	41	168	7.912	ug/l #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059348.D
 Acq On : 27 Jun 2018 19:27
 Operator : VA/AP
 Sample : J3677-08
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

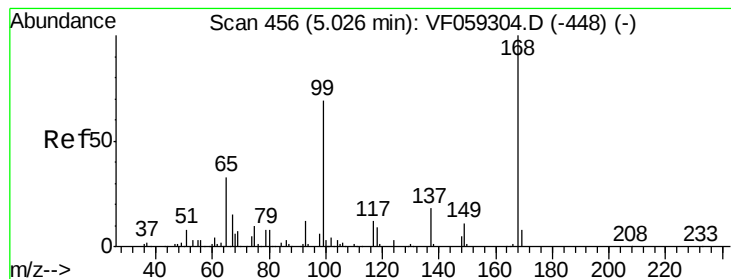
Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 28 01:44:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

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

49) 1,4-Dioxane	6.80	88	66	564.000	ug/l #	20
51) 4-Methyl-2-Pentanone	8.34	43	66	2.812	ug/l #	39
52) Toluene	7.80	92	118	1.870	ug/l #	1
53) t-1,3-Dichloropropene	8.41	75	64	1.387	ug/l #	43
54) cis-1,3-Dichloropropene	7.45	75	83	1.656	ug/l #	33
55) 1,1,2-Trichloroethane	8.66	97	71	2.898	ug/l #	13
56) Ethyl methacrylate	8.71	69	76	2.504	ug/l #	1
57) 1,3-Dichloropropane	9.05	76	72	1.713	ug/l #	44
59) 2-Hexanone	9.62	43	329	1.887	ug/l #	30
73) Isopropylbenzene	11.20	105	60	1.345	ug/l #	51
74) N-amyl acetate	11.45	43	109	6.731	ug/l #	46
76) 1,2,3-Trichloropropane	11.82	75	86	10.116	ug/l #	39
78) n-propylbenzene	11.75	91	73	1.362	ug/l #	52
79) 2-Chlorotoluene	11.75	91	73	2.229	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.89	105	66	1.688	ug/l #	28
81) trans-1,4-Dichloro-2-buten	11.96	75	59	11.660	ug/l #	14
82) 4-Chlorotoluene	11.98	91	68	1.939	ug/l #	38
83) tert-Butylbenzene	12.21	119	87	2.225	ug/l #	31
86) p-Isopropyltoluene	12.48	119	69	1.587	ug/l #	50
89) n-Butylbenzene	12.93	91	66	1.495	ug/l #	29
90) Hexachloroethane	12.88	117	70	6.458	ug/l #	10
91) 1,2-Dichlorobenzene	13.04	146	61	2.714	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.63	75	69	27.618	ug/l #	1
95) Naphthalene	14.52	128	67	1.927	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

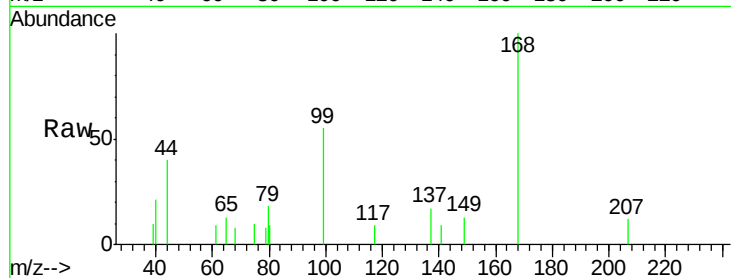
ClientSampled :

Tot Ion:168 Resp: 3651

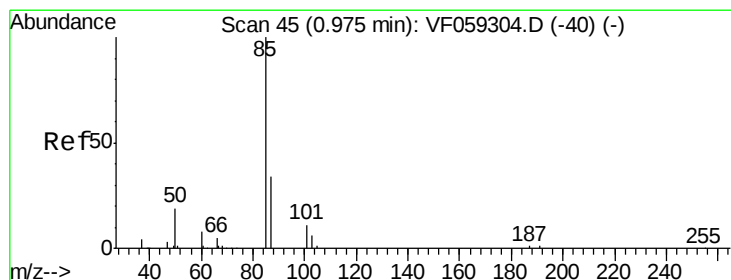
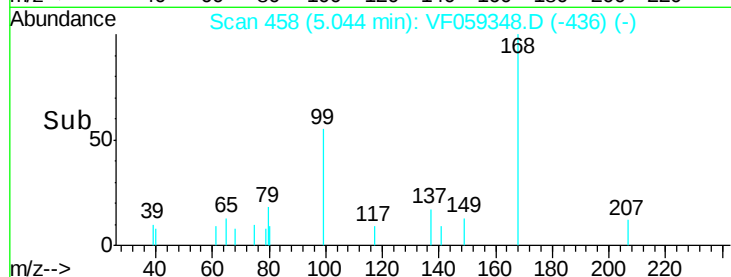
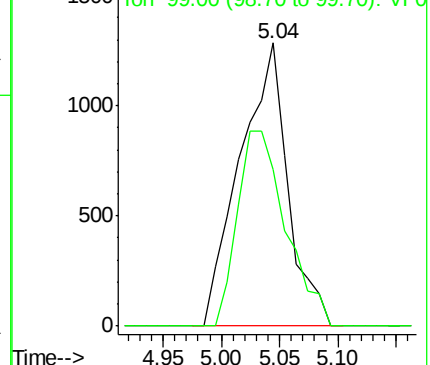
Ion Ratio Lower Upper

168 100

99 55.1 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 2.848 ug/l

RT: 1.11 min Scan# 59

Delta R.T. 0.14 min

Lab File: VF059348.D

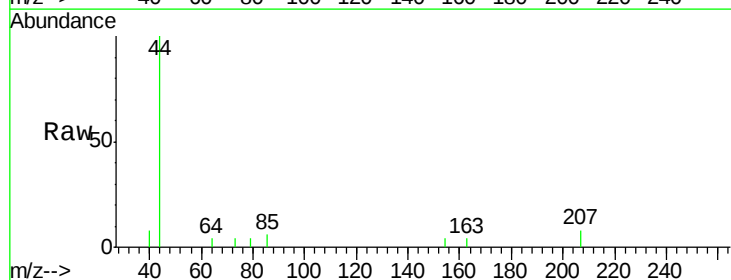
Acq: 27 Jun 2018 19:27

Tgt Ion: 85 Resp: 95

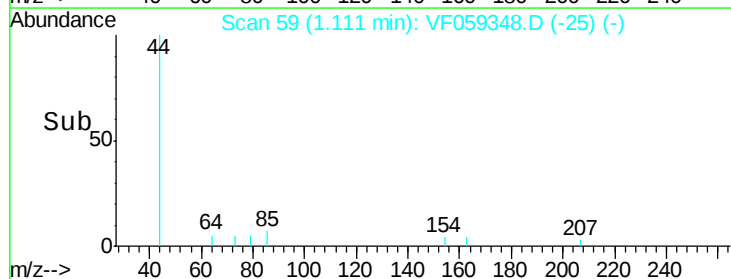
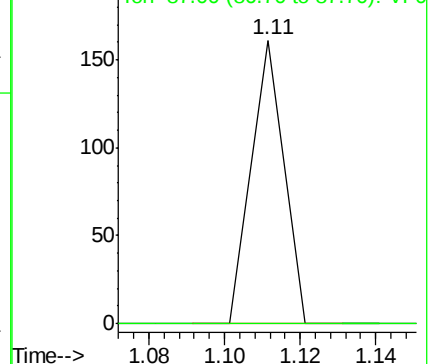
Ion Ratio Lower Upper

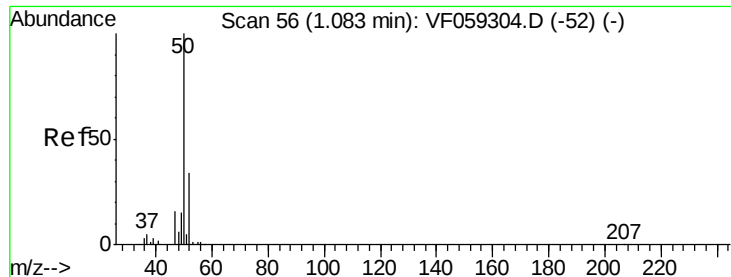
85 100

87 0.0 17.1 51.3#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 3.659 ug/l

RT: 1.02 min Scan# 50

Delta R.T. -0.06 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

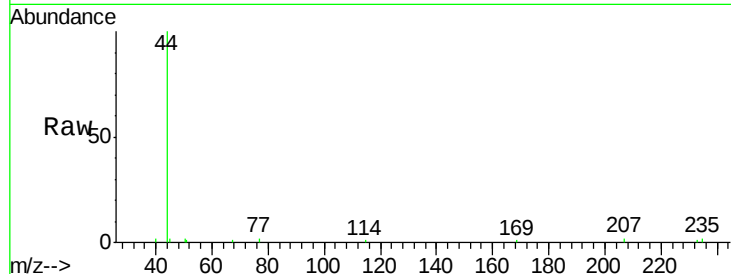
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 82

Ion Ratio Lower Upper

50 100

52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.02

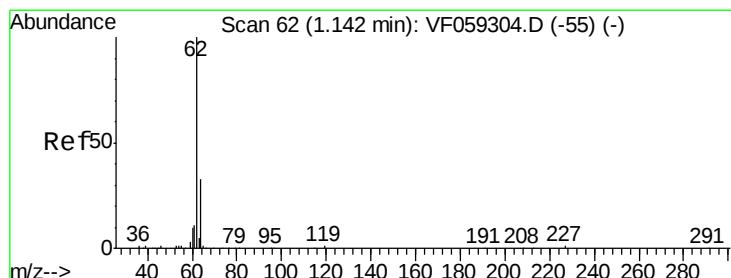
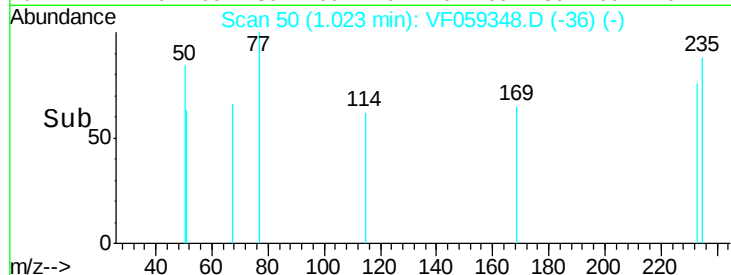
150

100

50

0

Time-->



#4

Vinyl Chloride

Concen: 2.675 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.06 min

Lab File: VF059348.D

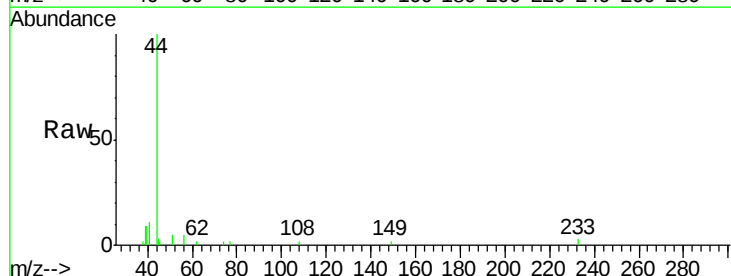
Acq: 27 Jun 2018 19:27

Tgt Ion: 62 Resp: 59

Ion Ratio Lower Upper

62 100

64 0.0 26.3 39.5#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.08

120

100

80

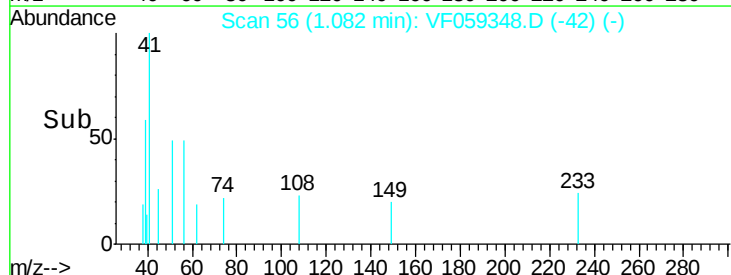
60

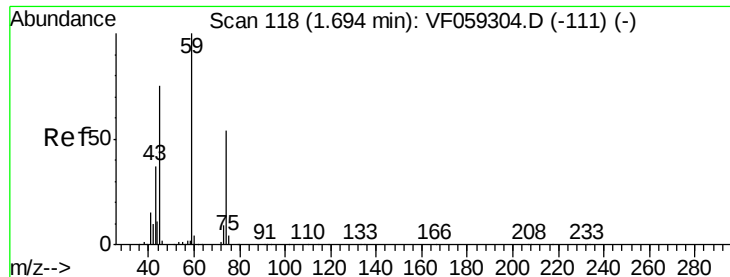
40

20

0

Time-->





#8

Diethyl Ether

Concen: 7.332 ug/l

RT: 1.73 min Scan# 122

Delta R.T. 0.04 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

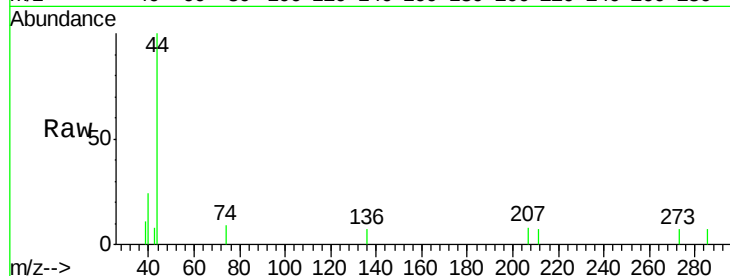
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 82

Ion Ratio Lower Upper

74 100

45 0.0 70.0 210.0#

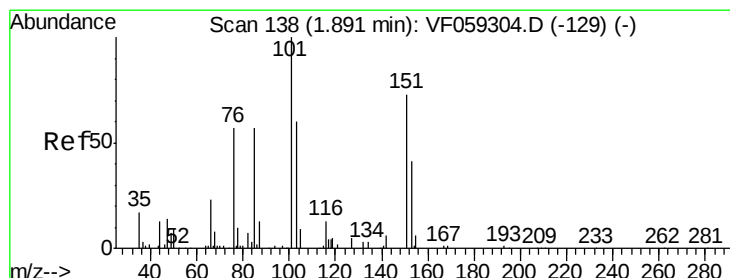
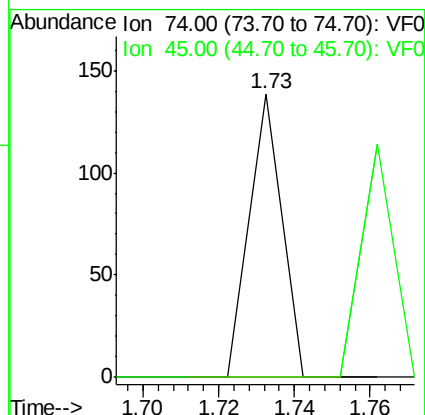
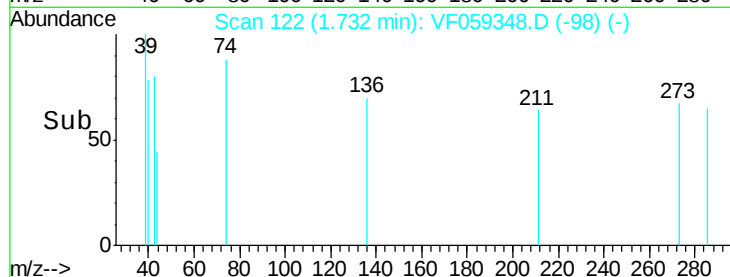


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.73

1.76



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.789 ug/l

RT: 2.05 min Scan# 154

Delta R.T. 0.16 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

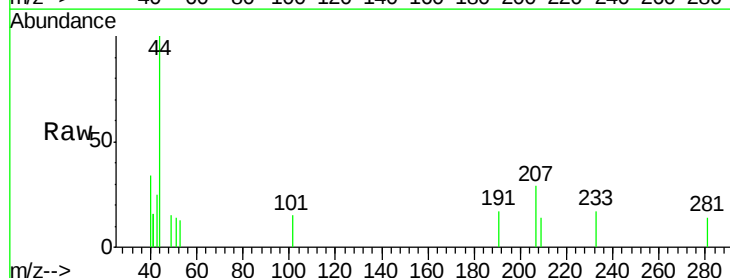
Tgt Ion: 101 Resp: 71

Ion Ratio Lower Upper

101 100

85 0.0 44.5 66.7#

151 0.0 56.8 85.2#



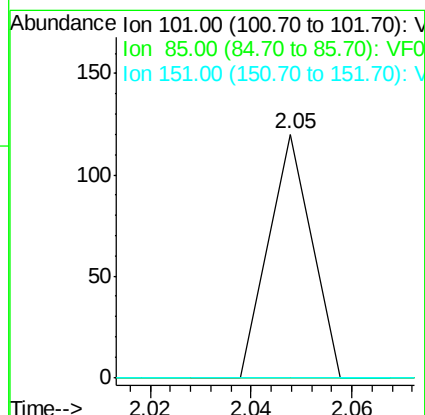
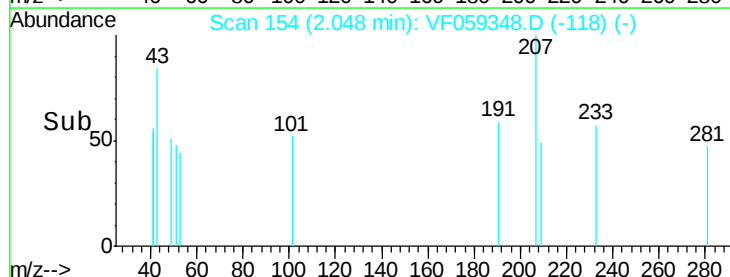
Abundance Ion 101.00 (100.70 to 101.70): V

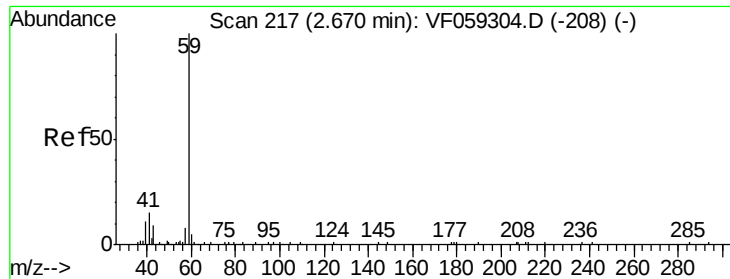
Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V

2.05

2.06

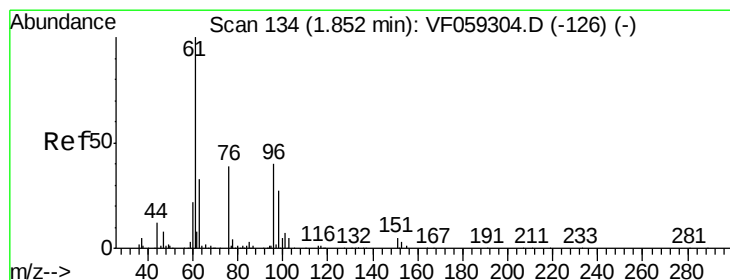
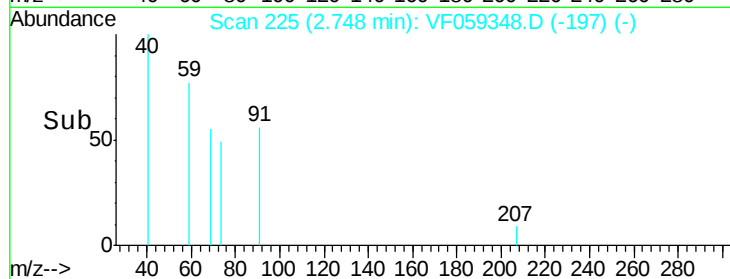
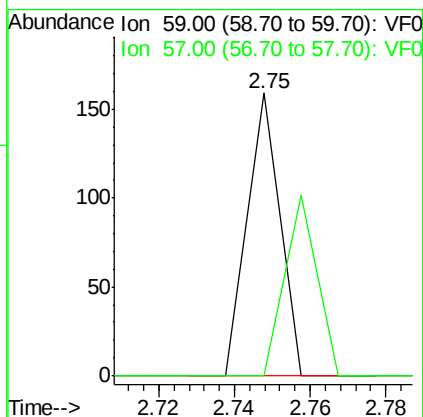
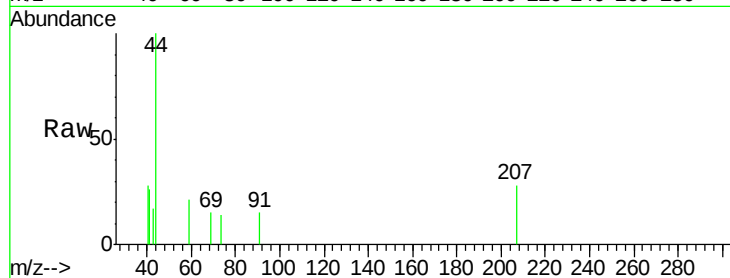




#11
Tert butyl alcohol
Concen: 29.933 ug/l
RT: 2.75 min Scan# 225
Delta R.T. 0.08 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

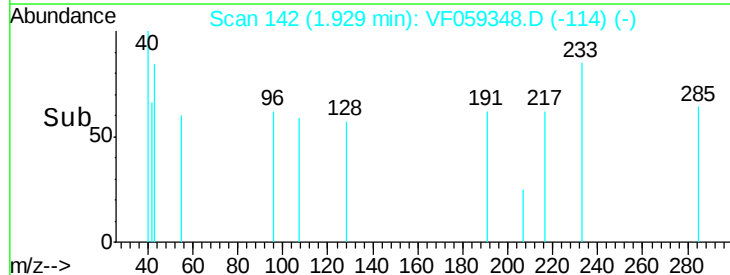
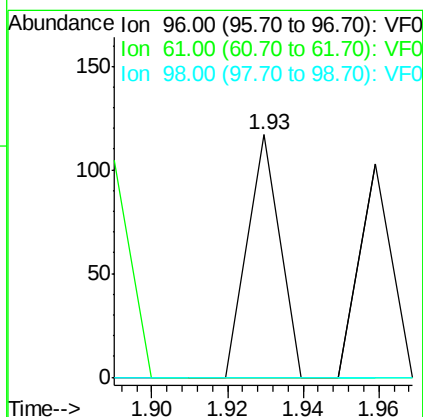
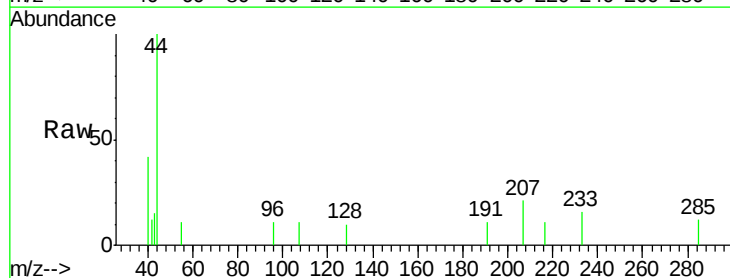
Instrument :
MSVOA_F
ClientSampleId :

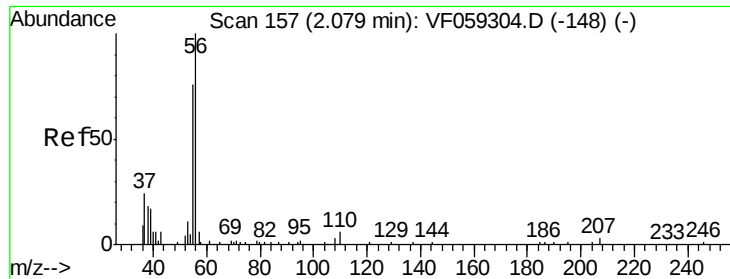
Tot Ion: 59 Resp: 94
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#



#12
1,1-Dichloroethene
Concen: 3.206 ug/l
RT: 1.93 min Scan# 142
Delta R.T. 0.08 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 96 Resp: 69
Ion Ratio Lower Upper
96 100
61 0.0 201.1 301.7#
98 0.0 53.9 80.9#





#13

Acrolein

Concen: 23.198 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.03 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

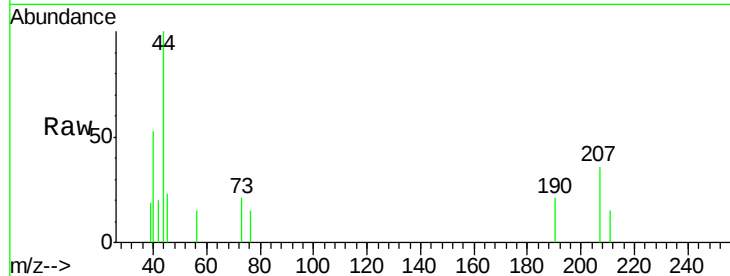
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 0.0 62.4 93.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.11

100

80

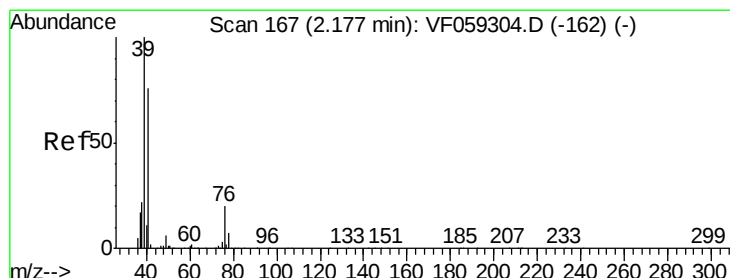
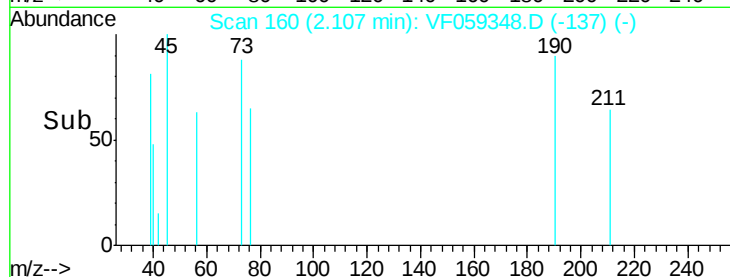
60

40

20

0

Time-->



#14

Allyl chloride

Concen: 1.708 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.01 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

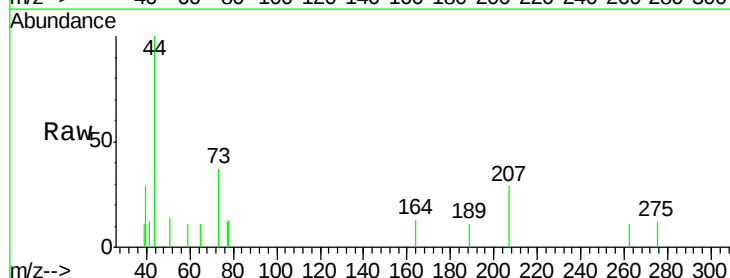
Tgt Ion: 41 Resp: 69

Ion Ratio Lower Upper

41 100

39 87.9 105.6 158.4#

76 0.0 21.6 32.4#



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

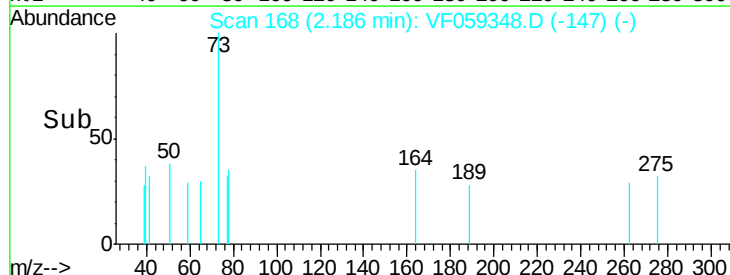
300

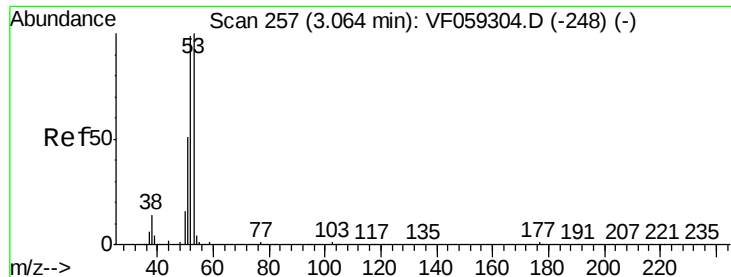
200

100

0

Time-->





#15

Acrylonitrile

Concen: 13.382 ug/l

RT: 3.00 min Scan# 251

Delta R.T. -0.06 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

ClientSampleId :

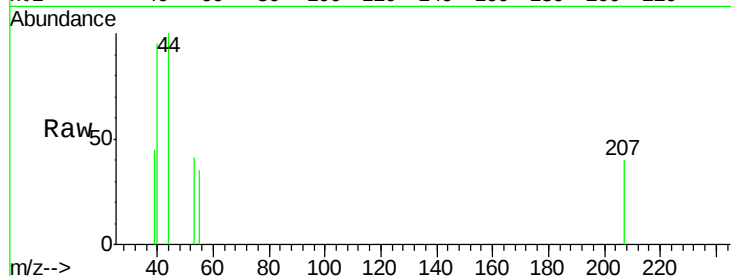
Tot Ion: 53 Resp: 74

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

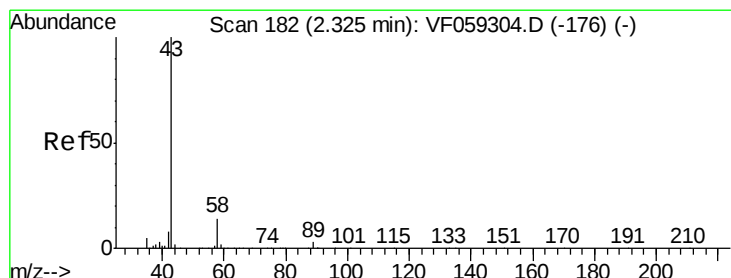
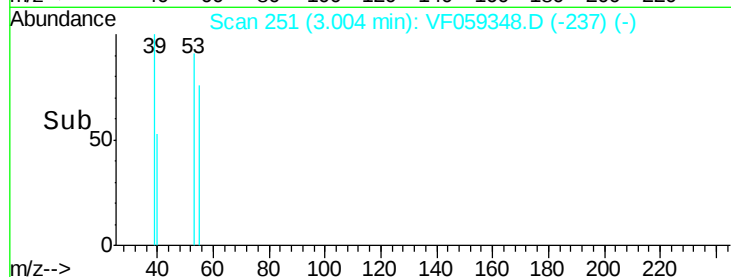
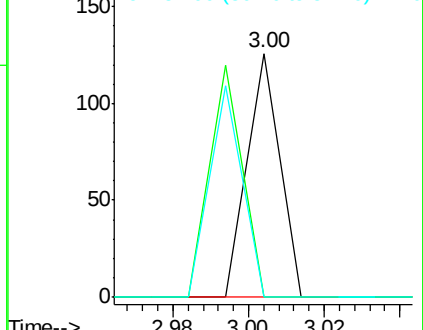
51 0.0 40.9 61.3#



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: 45.561 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059348.D

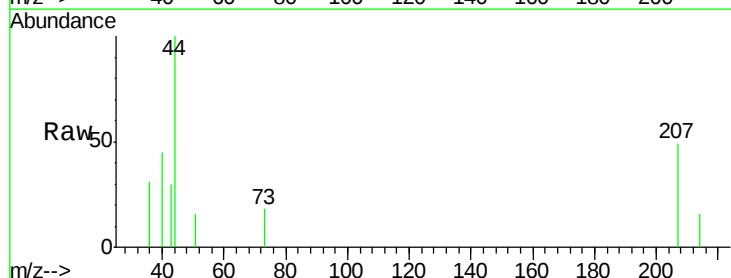
Acq: 27 Jun 2018 19:27

Tgt Ion: 43 Resp: 635

Ion Ratio Lower Upper

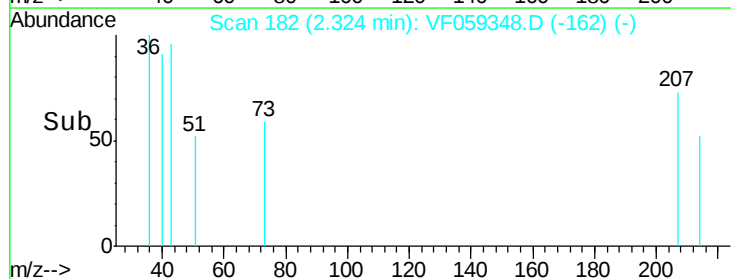
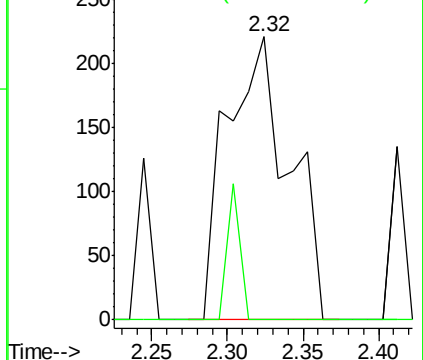
43 100

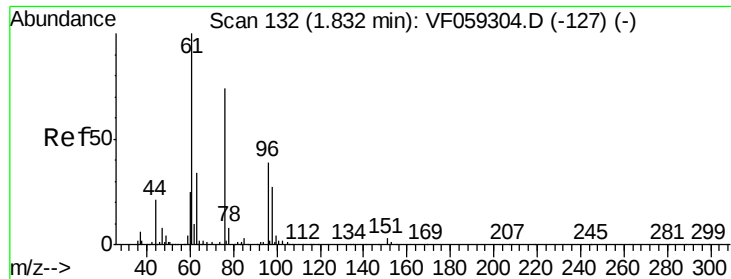
58 0.0 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

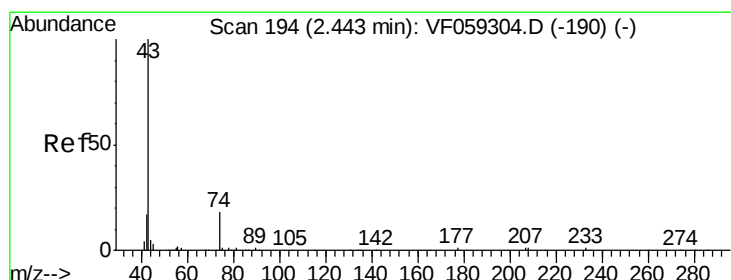
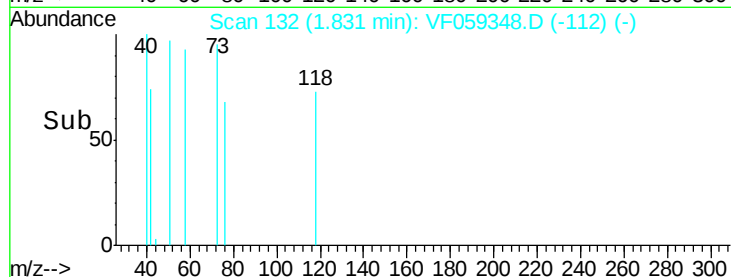
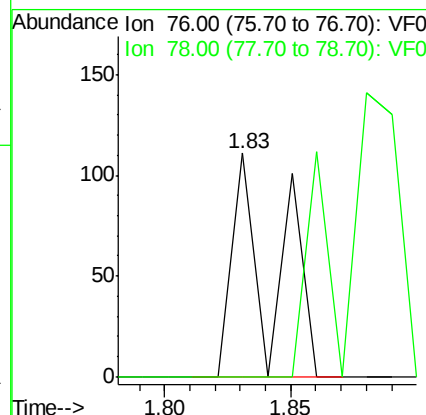
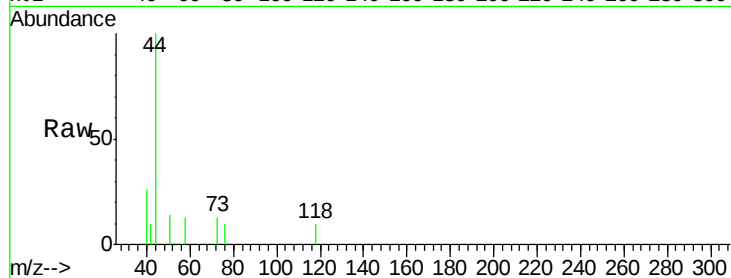




#17
Carbon Disulfide
Concen: 2.469 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.00 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

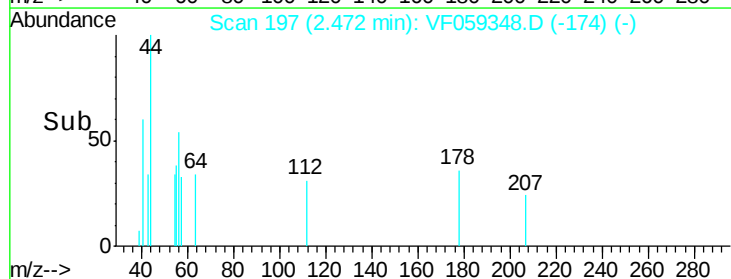
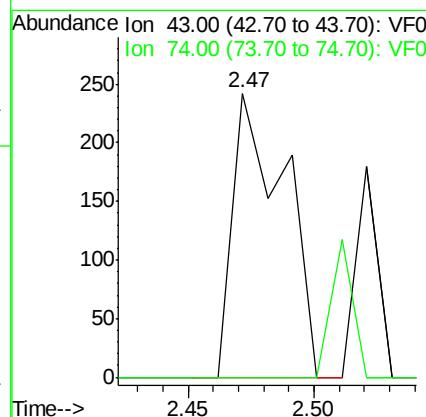
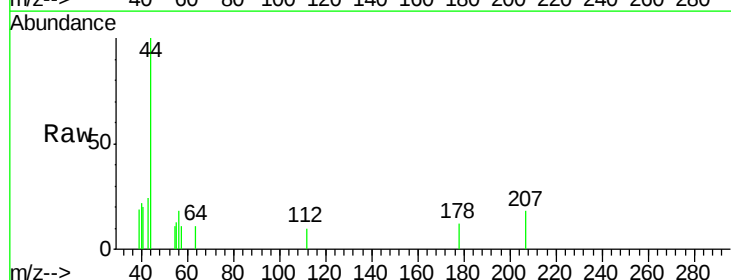
Instrument :
MSVOA_F
ClientSampleId :

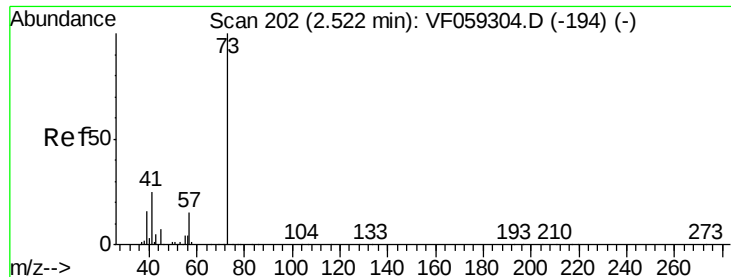
Tot Ion: 76 Resp: 125
Ion Ratio Lower Upper
76 100
78 0.0 8.9 13.3#



#18
Methyl Acetate
Concen: 15.399 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 43 Resp: 345
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



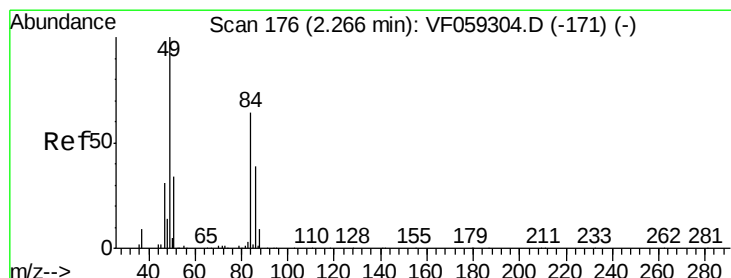
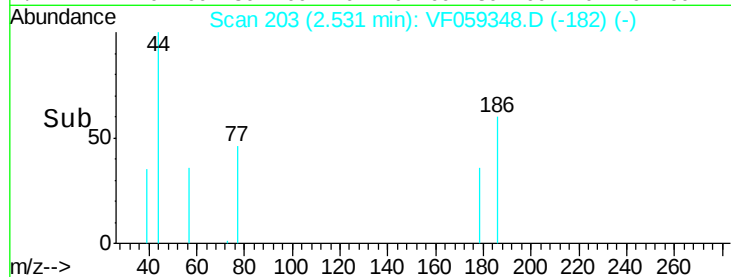
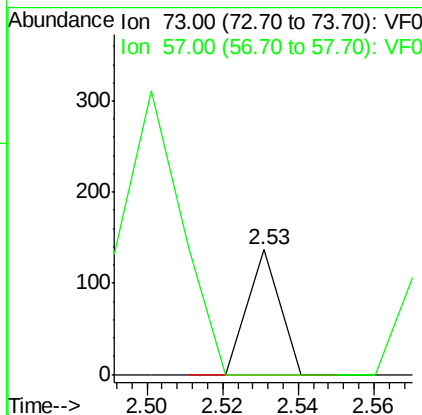
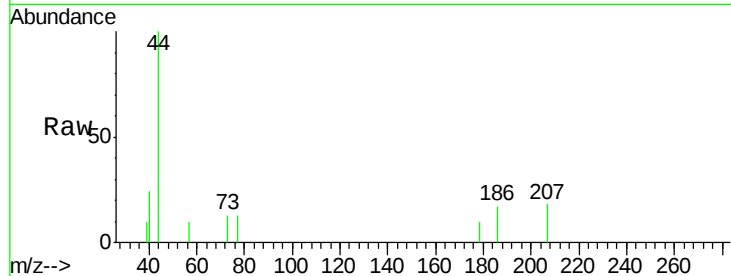


#19

Methyl tert-butyl Ether
Concen: 1.009 ug/l
RT: 2.53 min Scan# 203
Delta R.T. 0.01 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Instrument :
MSVOA_F
ClientSampled :

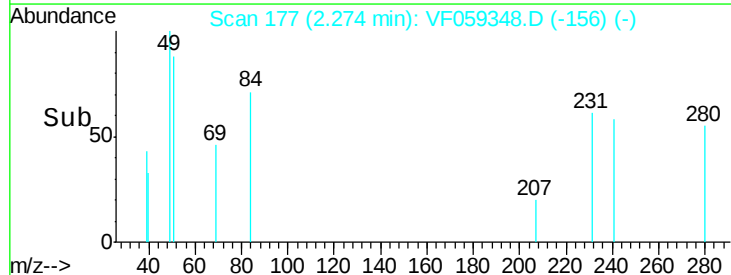
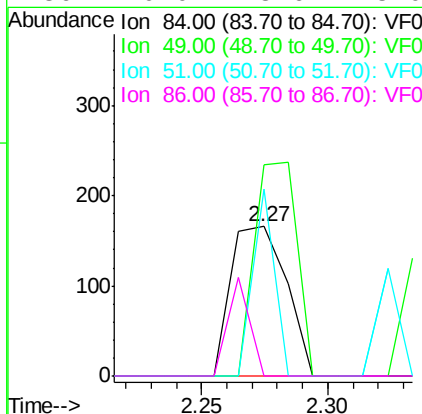
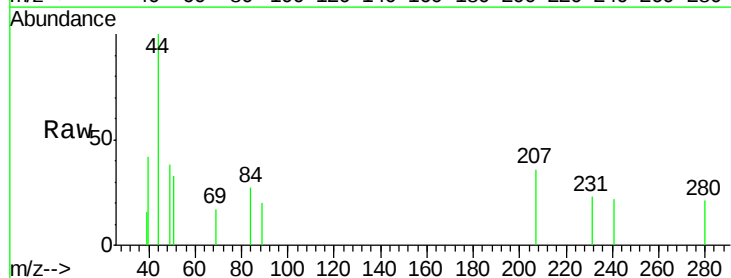
Tot Ion: 73 Resp: 81
Ion Ratio Lower Upper
73 100
57 0.0 12.3 18.5#

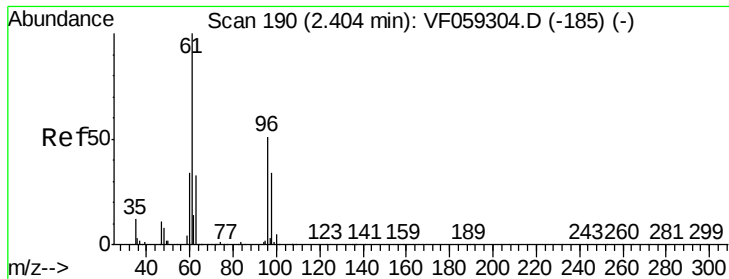


#20

Methylene Chloride
Concen: 2.552 ug/l
RT: 2.27 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 84 Resp: 253
Ion Ratio Lower Upper
84 100
49 141.0 126.5 189.7
51 124.7 42.9 64.3#
86 0.0 48.6 73.0#





#21

trans-1,2-Dichloroethene

Concen: 3.136 ug/l

RT: 2.41 min Scan# 191

Delta R.T. 0.01 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

ClientSampleId :

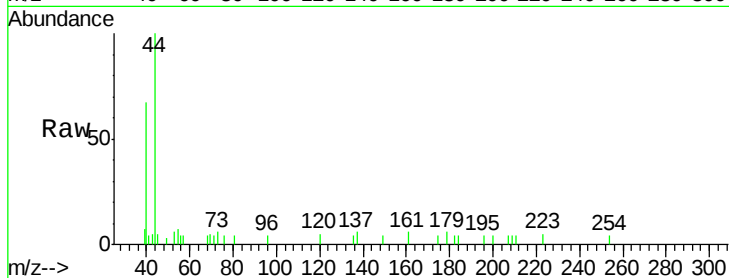
Tot Ion: 96 Resp: 72

Ion Ratio Lower Upper

96 100

61 0.0 157.4 236.2#

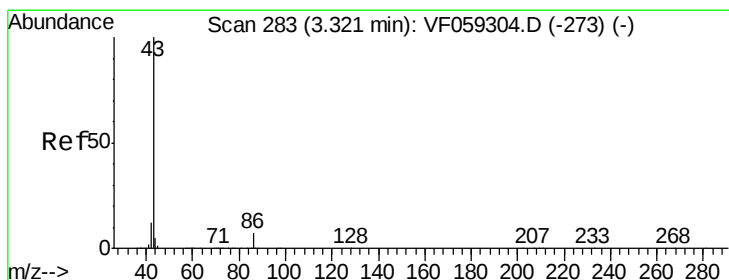
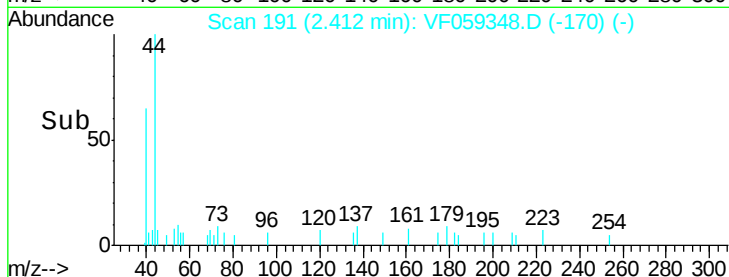
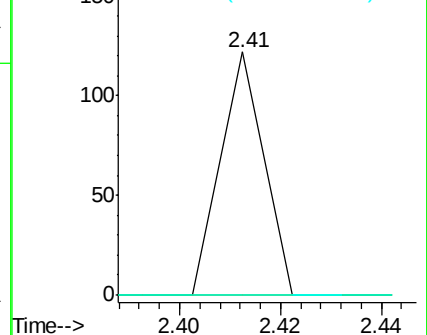
98 0.0 53.7 80.5#



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



#23

Vinyl Acetate

Concen: 2.264 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.03 min

Lab File: VF059348.D

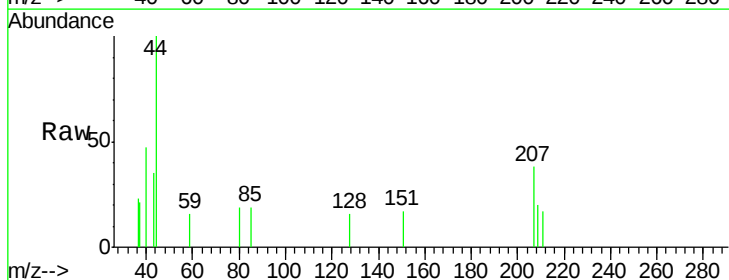
Acq: 27 Jun 2018 19:27

Tgt Ion: 43 Resp: 129

Ion Ratio Lower Upper

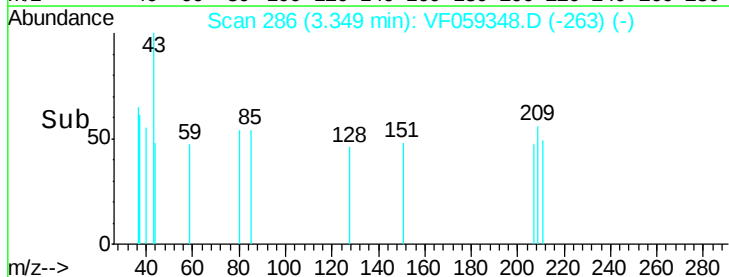
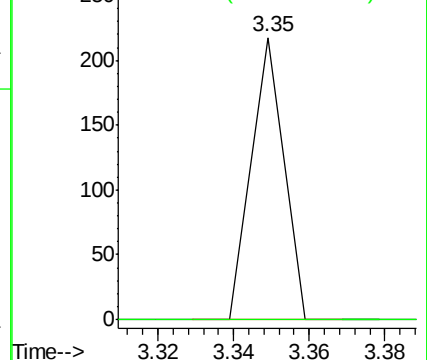
43 100

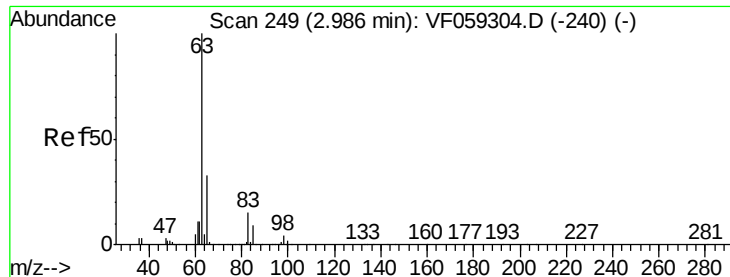
86 0.0 5.8 8.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 1.280 ug/l

RT: 3.07 min Scan# 258

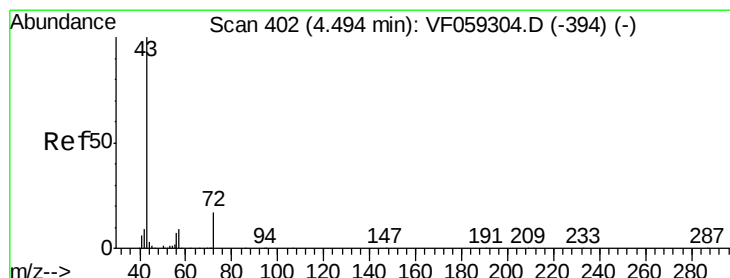
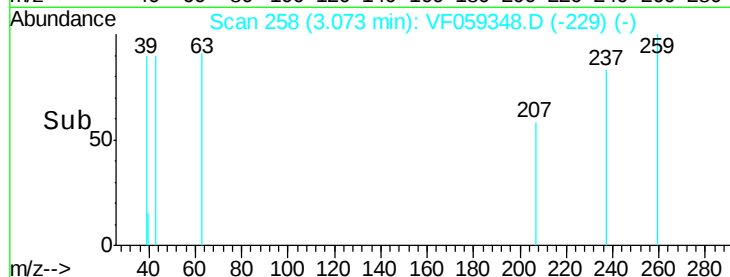
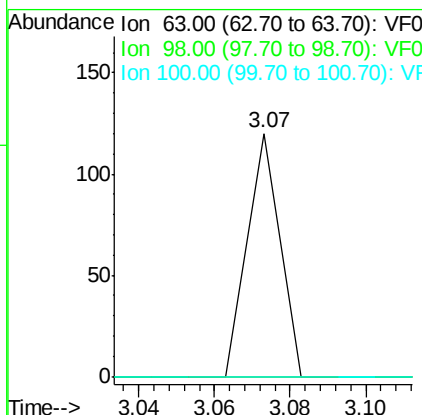
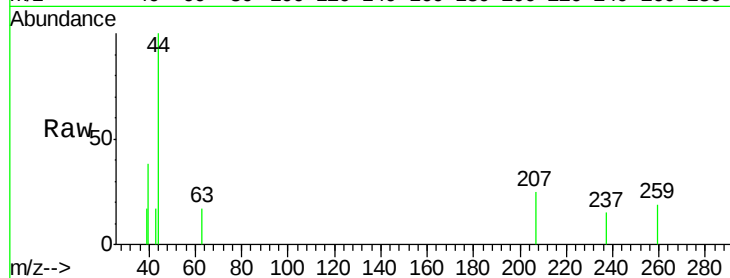
Delta R.T. 0.09 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	63	Resp:	71
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	6.0#
100	0.0	1.3	3.9#



#25

2-Butanone

Concen: 17.984 ug/l

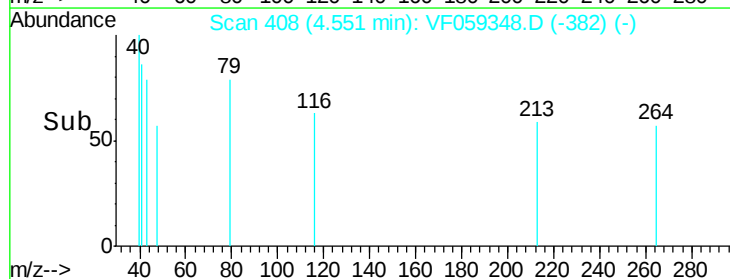
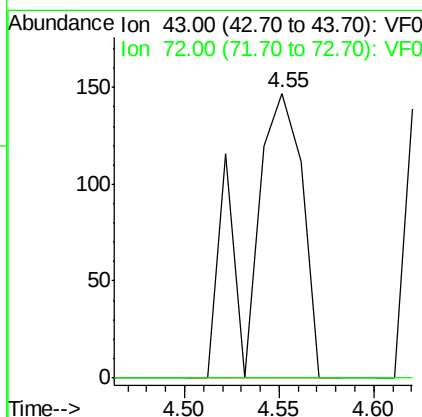
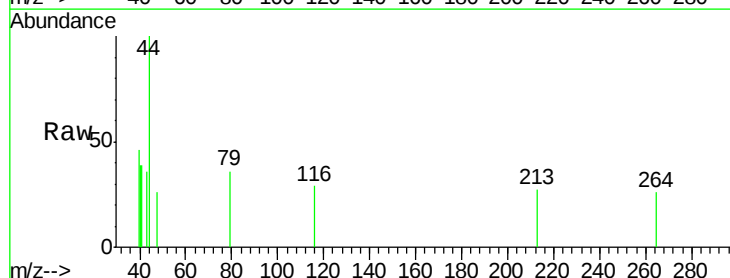
RT: 4.55 min Scan# 408

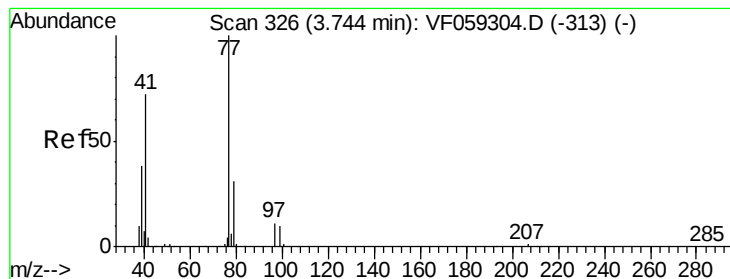
Delta R.T. 0.06 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Tgt Ion:	43	Resp:	293
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.4	21.6#





#26

2,2-Dichloropropane

Concen: 2.169 ug/l

RT: 3.73 min Scan# 325

Delta R.T. -0.01 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

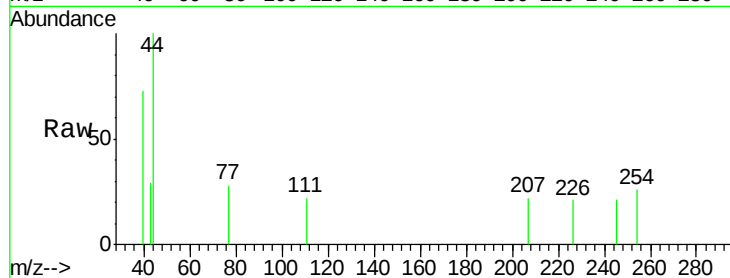
ClientSampleId :

Tot Ion: 77 Resp: 83

Ion Ratio Lower Upper

77 100

97 0.0 8.0 23.8#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.73

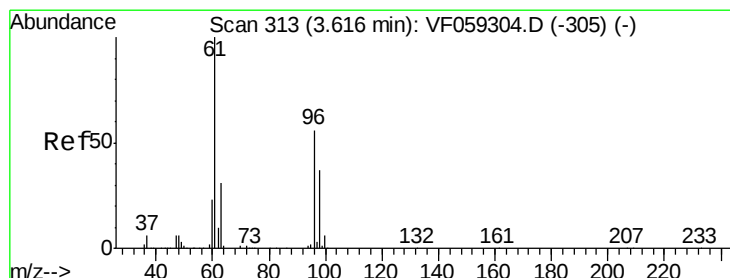
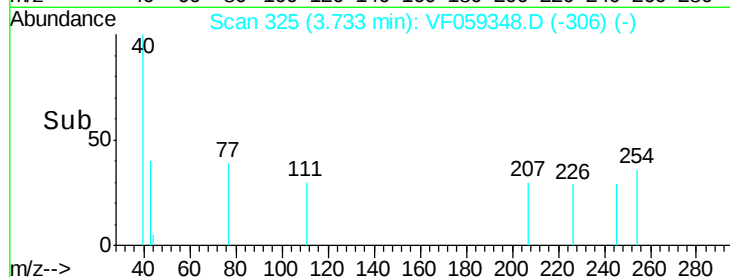
150

100

50

0

Time--> 3.70 3.72 3.74 3.76



#27

cis-1,2-Dichloroethene

Concen: 1.979 ug/l

RT: 3.63 min Scan# 315

Delta R.T. 0.02 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

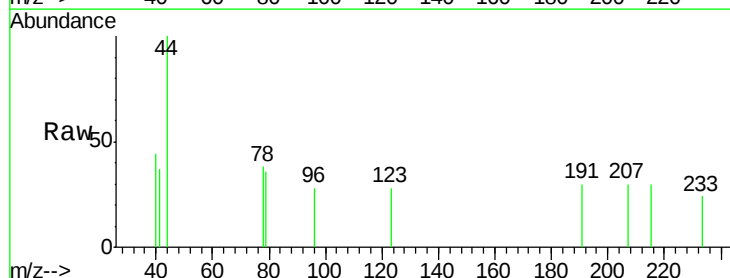
Tgt Ion: 96 Resp: 69

Ion Ratio Lower Upper

96 100

61 0.0 0.0 355.4

98 0.0 0.0 131.0



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

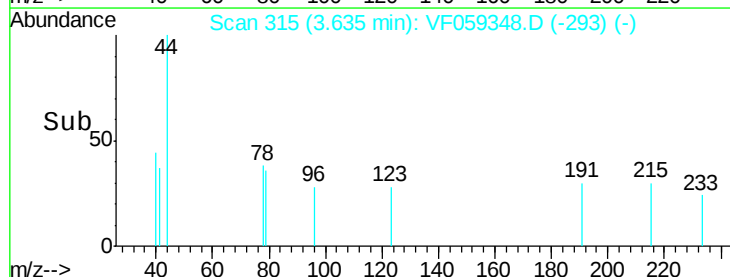
150

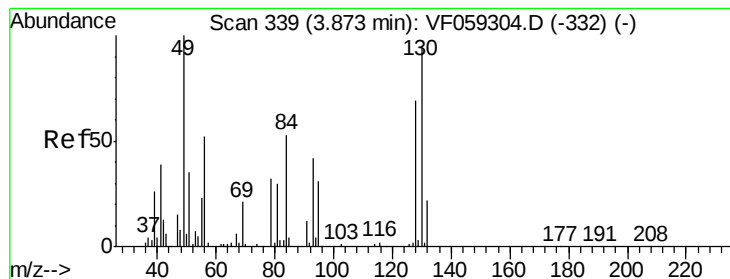
100

50

0

Time--> 3.60 3.62 3.64 3.66





#28

Bromochloromethane

Concen: 1.466 ug/l

RT: 3.94 min Scan# 346

Delta R.T. 0.07 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :
MSVOA_F
ClientSampled :

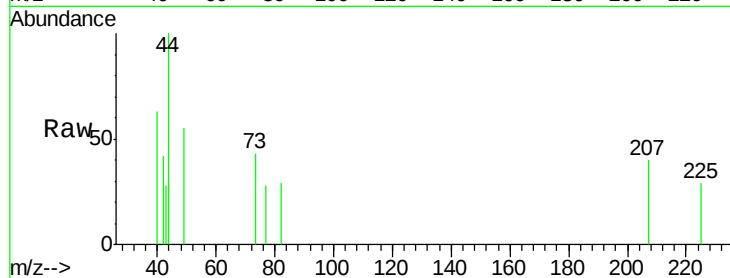
Tot Ion: 49 Resp: 119

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

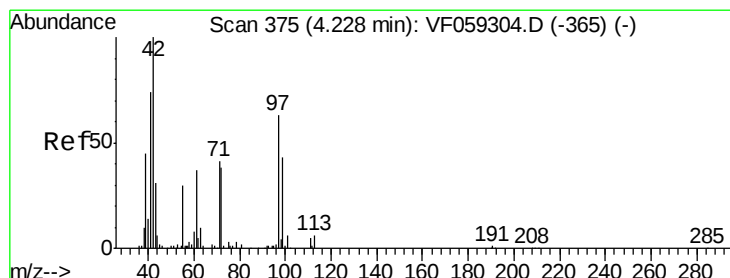
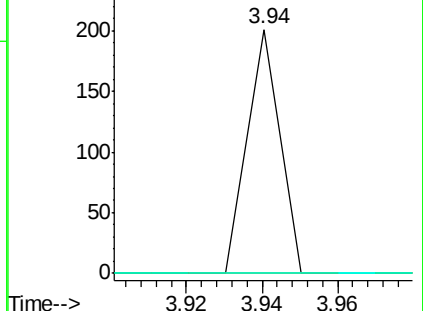
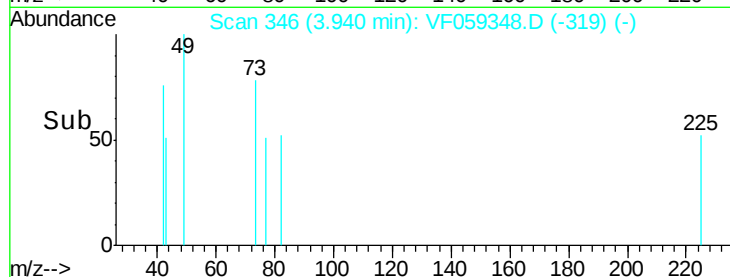
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 1.411 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.04 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

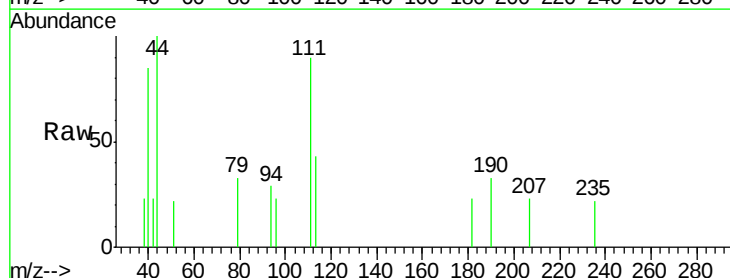
Tgt Ion: 42 Resp: 62

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

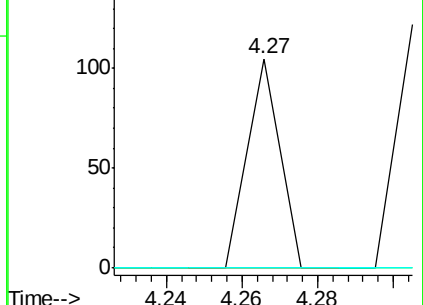
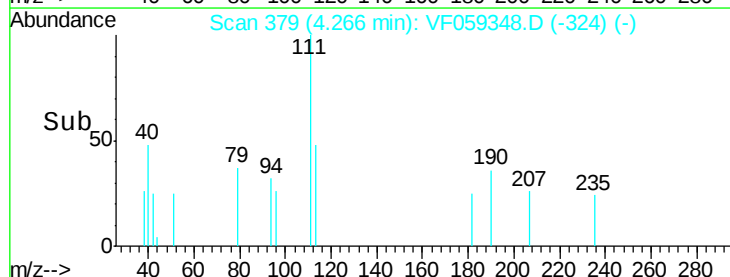
71 0.0 32.5 48.7#

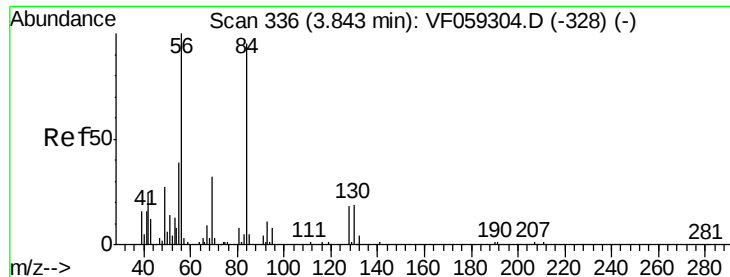


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

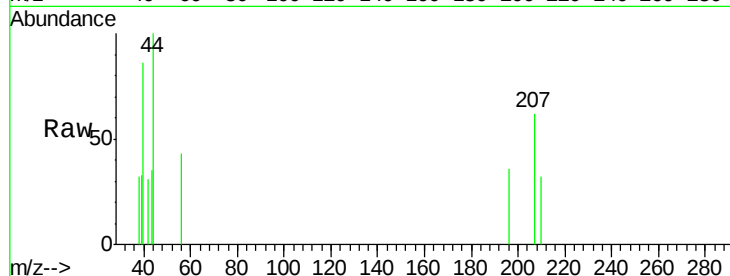




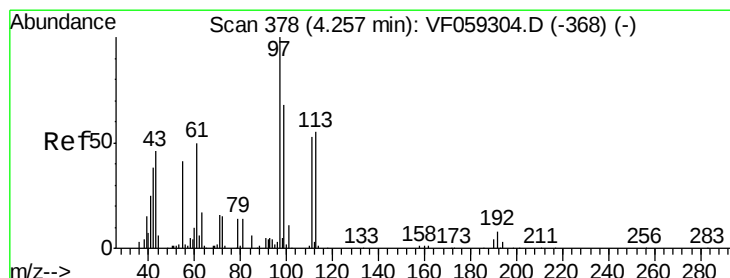
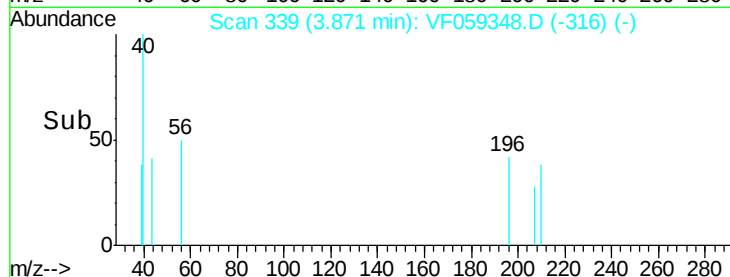
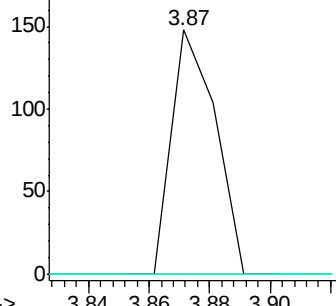
#31
Cyclohexane
Concen: 4.100 ug/l
RT: 3.87 min Scan# 339
Delta R.T. 0.03 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
56	100		
69	0.0	25.8	38.8#
84	0.0	75.6	113.4#

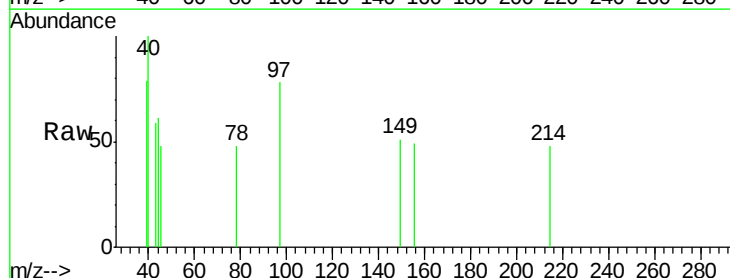


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

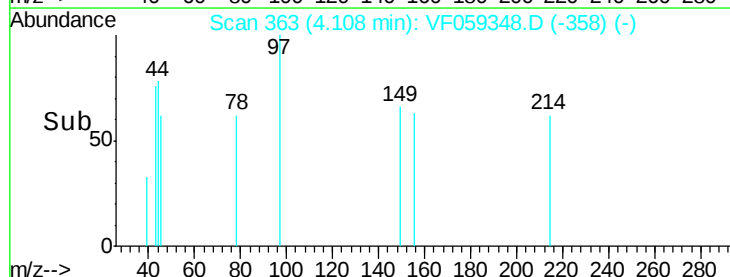
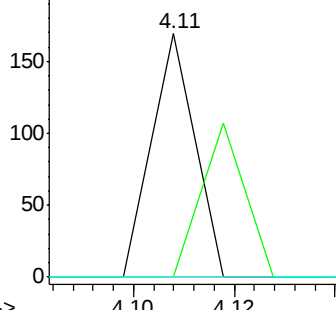


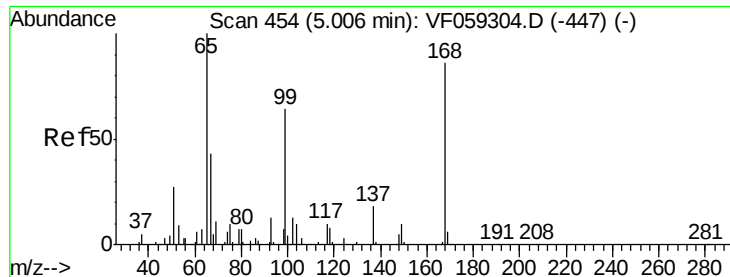
#32
1,1,1-Trichloroethane
Concen: 1.702 ug/l
RT: 4.11 min Scan# 363
Delta R.T. -0.15 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	54.1	81.1#
61	0.0	41.2	61.8#



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

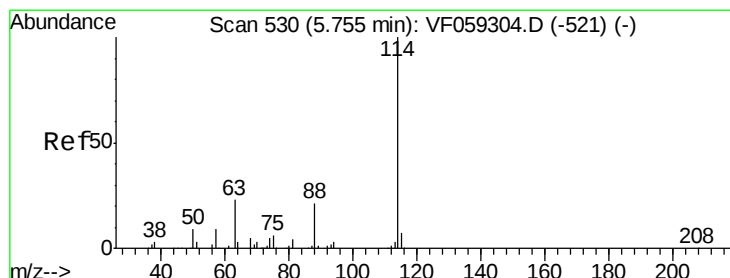
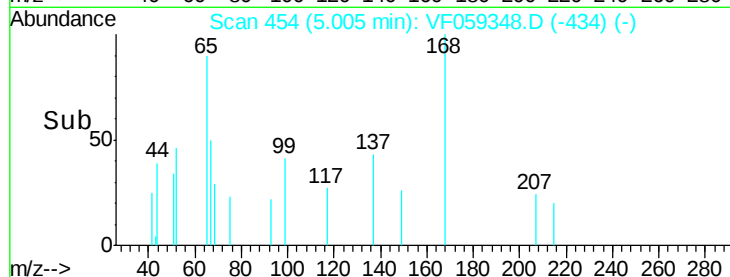
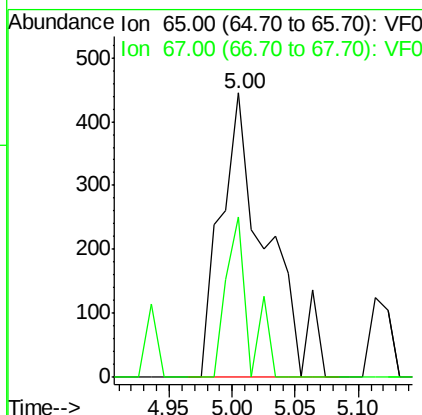
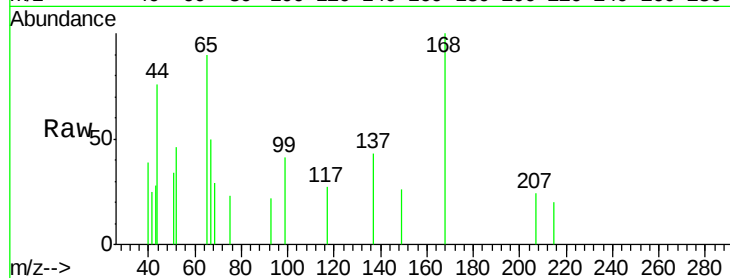




#33
 1,2-Dichloroethane-d4
 Concen: 23.765 ug/l
 RT: 5.00 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VF059348.D
 Acq: 27 Jun 2018 19:27

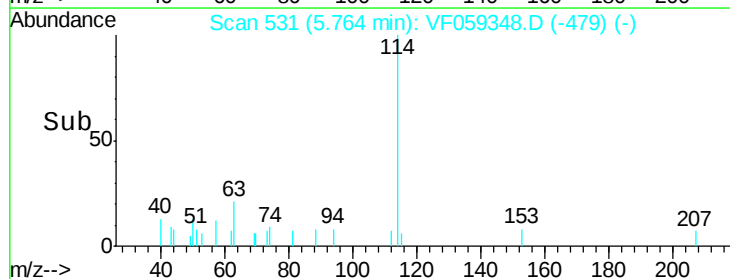
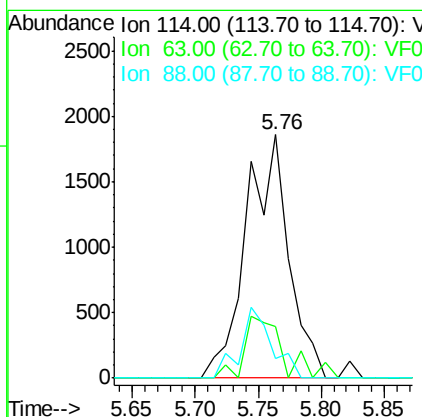
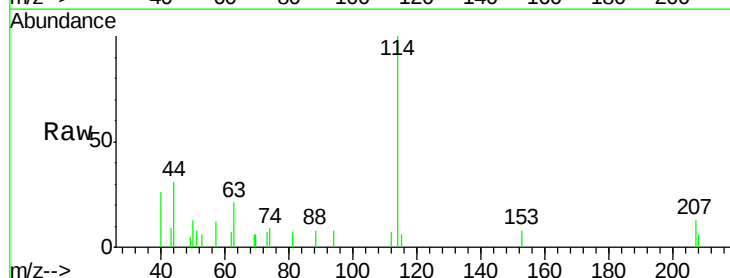
Instrument :
 MSVOA_F
 ClientSampleId :

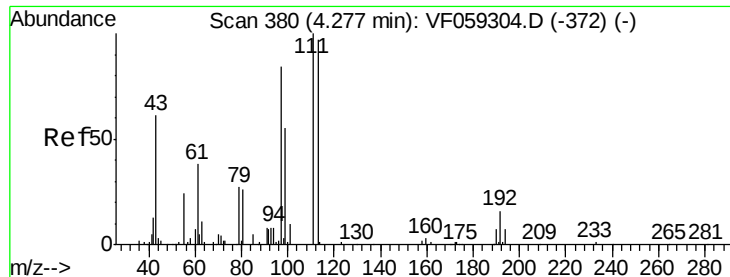
Tot Ion: 65 Resp: 1121
 Ion Ratio Lower Upper
 65 100
 67 56.2 0.0 96.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VF059348.D
 Acq: 27 Jun 2018 19:27

Tgt Ion:114 Resp: 4354
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 45.8
 88 8.2 0.0 41.2

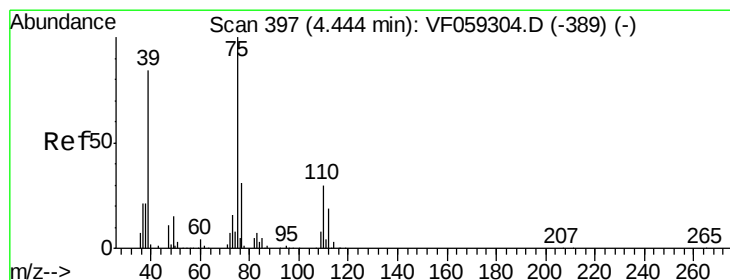
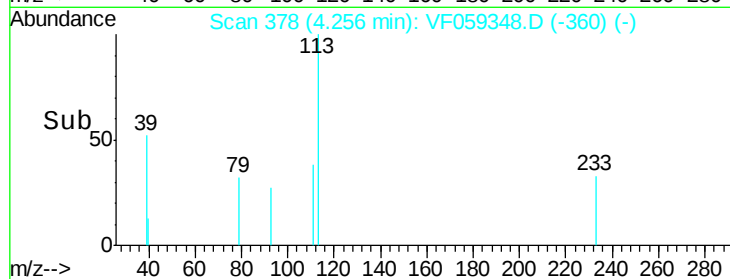
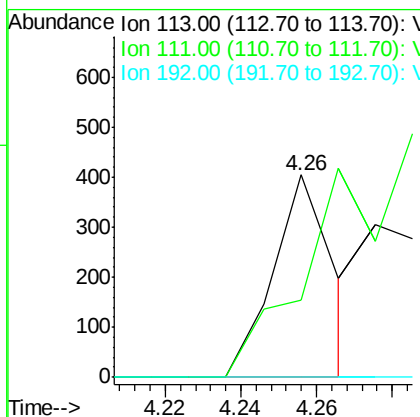
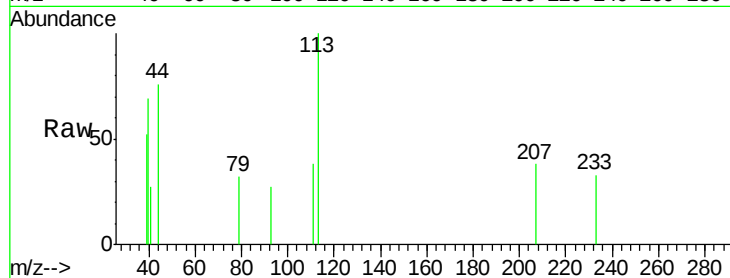




#35
 Dibromofluoromethane
 Concen: 13.956 ug/l
 RT: 4.26 min Scan# 378
 Delta R.T. -0.02 min
 Lab File: VF059348.D
 Acq: 27 Jun 2018 19:27

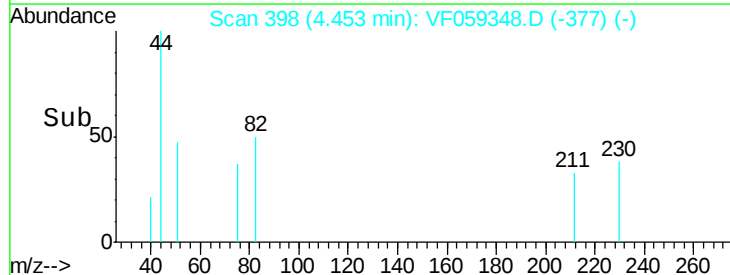
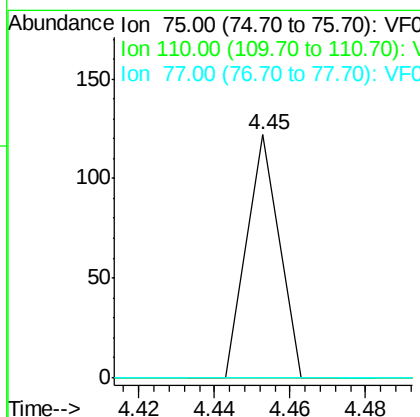
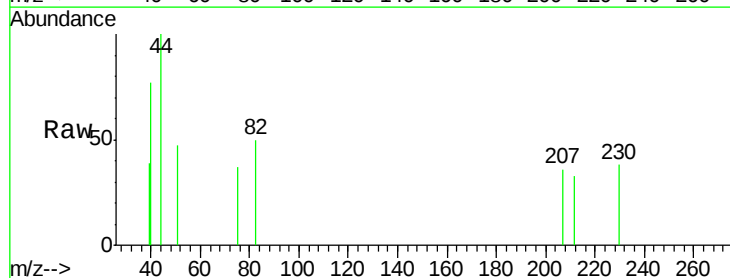
Instrument :
 MSVOA_F
 ClientSampled :

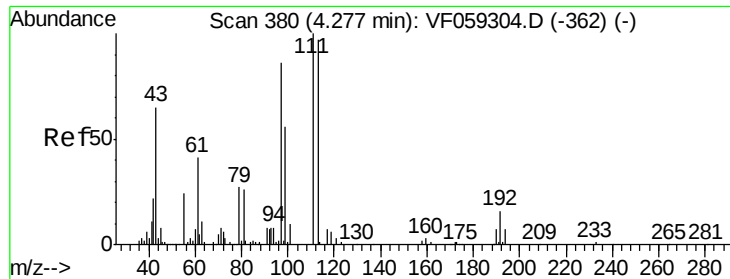
Tot Ion:113 Resp: 444
 Ion Ratio Lower Upper
 113 100
 111 38.3 82.1 123.1#
 192 0.0 13.0 19.6#



#36
 1,1-Dichloropropene
 Concen: 1.893 ug/l
 RT: 4.45 min Scan# 398
 Delta R.T. 0.01 min
 Lab File: VF059348.D
 Acq: 27 Jun 2018 19:27

Tgt Ion: 75 Resp: 72
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.8 44.4#
 77 0.0 25.2 37.8#

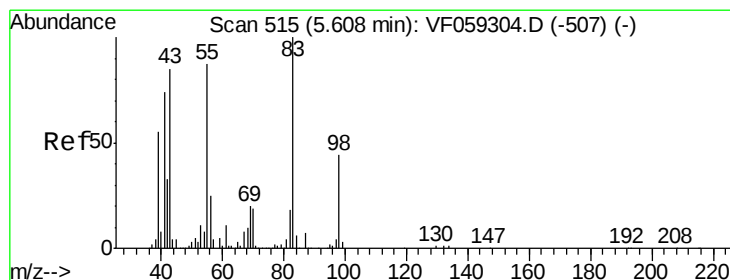
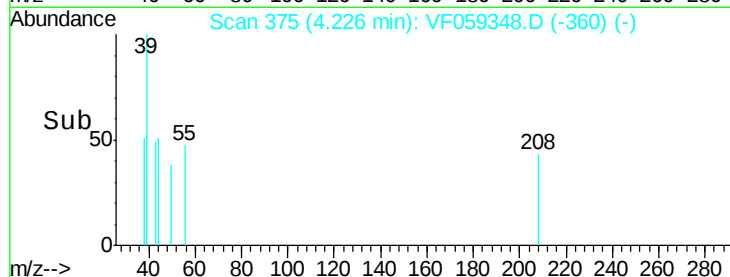
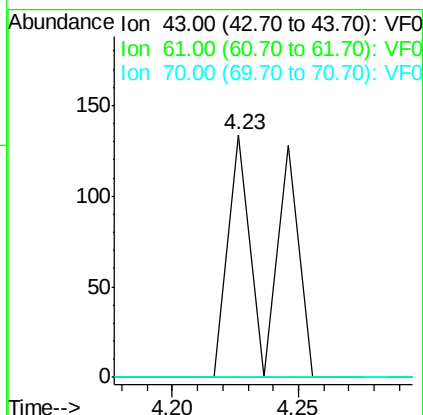
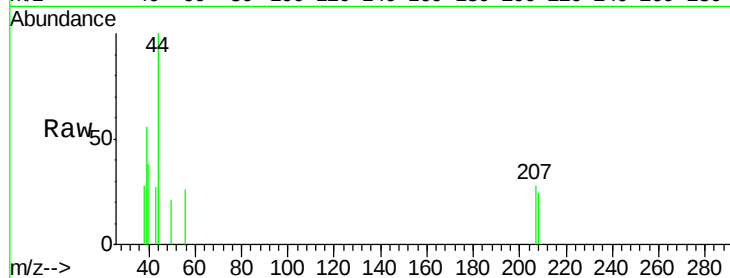




#37
Ethyl Acetate
Concen: 5.039 ug/l
RT: 4.23 min Scan# 375
Delta R.T. -0.05 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

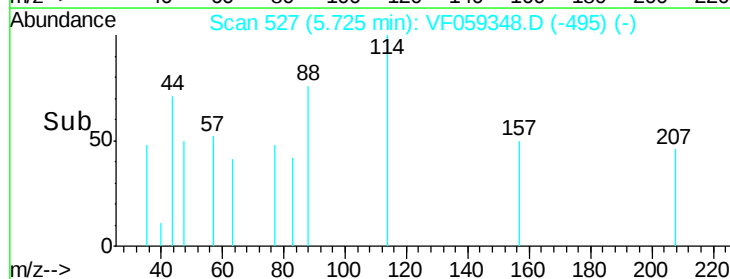
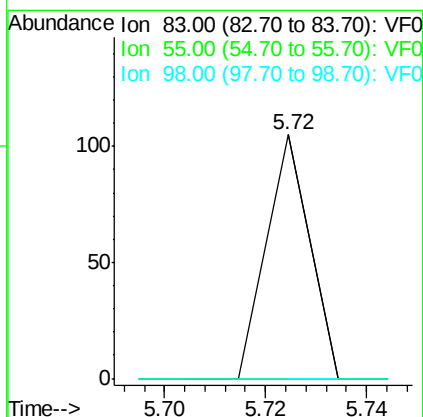
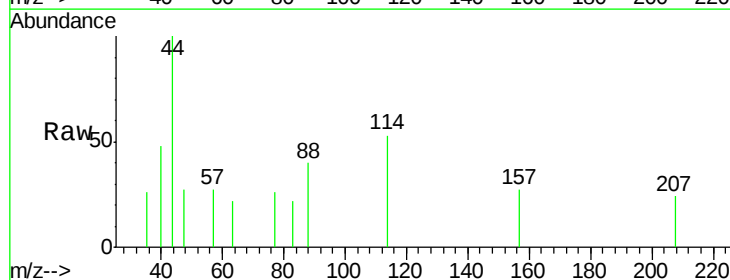
Instrument :
MSVOA_F
ClientSampleId :

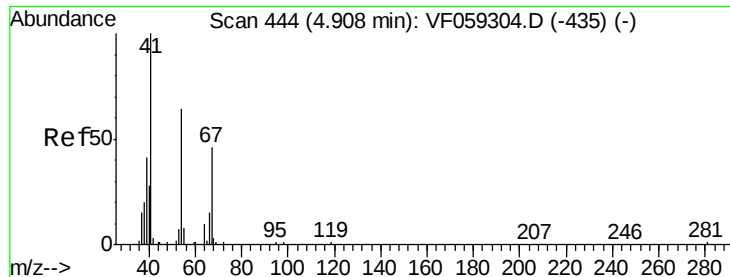
Tot Ion: 43 Resp: 155
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 1.839 ug/l
RT: 5.72 min Scan# 527
Delta R.T. 0.12 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 83 Resp: 62
Ion Ratio Lower Upper
83 100
55 0.0 69.2 103.8#
98 0.0 35.0 52.6#

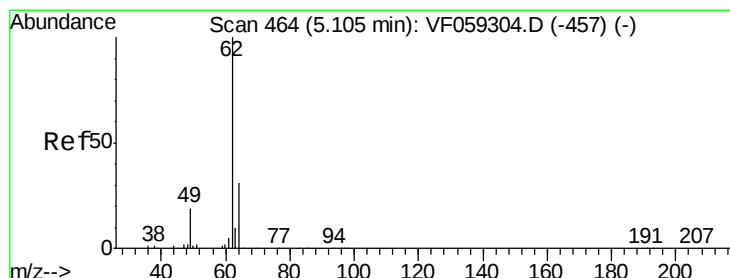
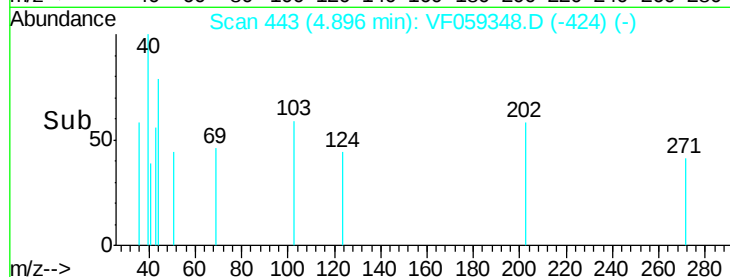
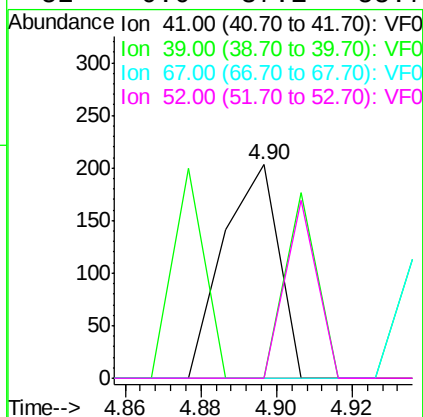
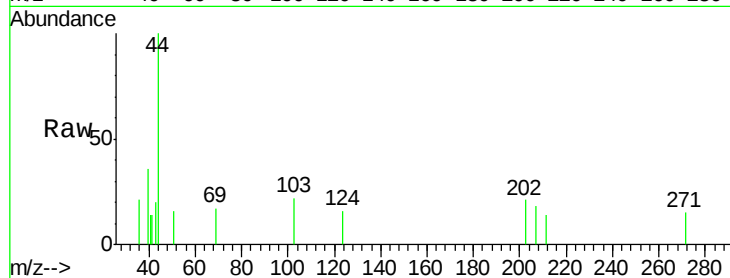




#41
Methacrylonitrile
Concen: 15.646 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.01 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

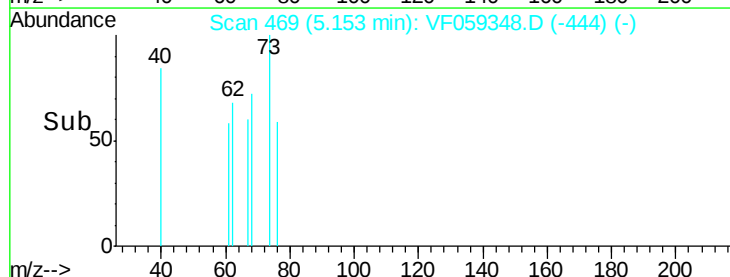
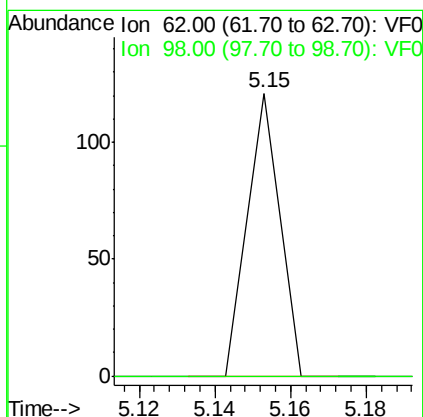
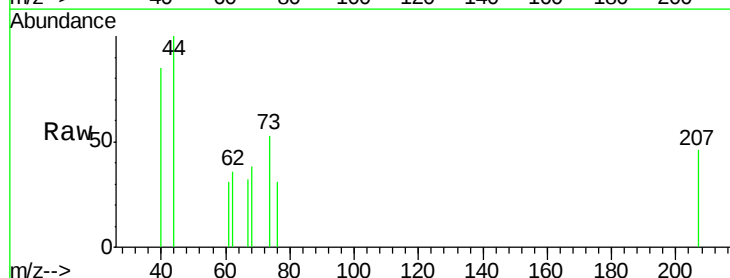
Instrument :
MSVOA_F
ClientSampled :

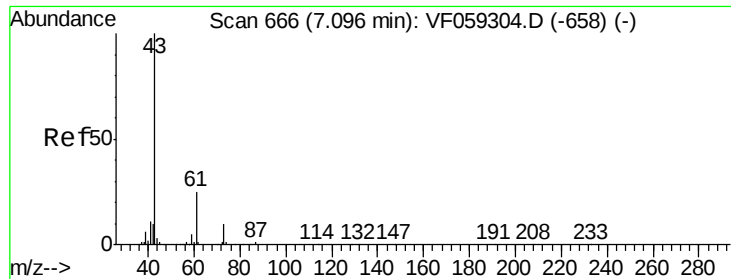
Tot Ion: 41 Resp: 203
Ion Ratio Lower Upper
41 100
39 127.6 50.0 75.0#
67 0.0 37.0 55.6#
52 0.0 37.1 55.7#



#42
1,2-Dichloroethane
Concen: 1.461 ug/l
RT: 5.15 min Scan# 469
Delta R.T. 0.05 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 62 Resp: 72
Ion Ratio Lower Upper
62 100
98 0.0 0.0 11.4





#43

Isopropyl Acetate

Concen: 1.925 ug/l

RT: 7.08 min Scan# 665

Delta R.T. -0.01 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

ClientSampled :

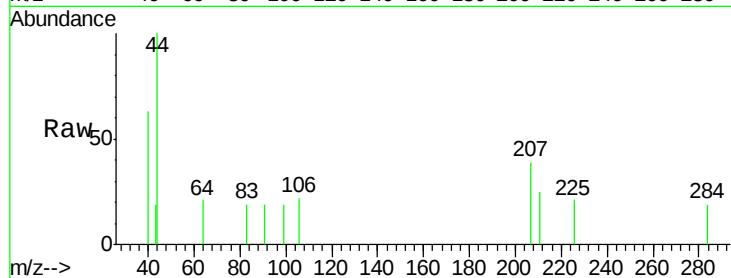
Tot Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

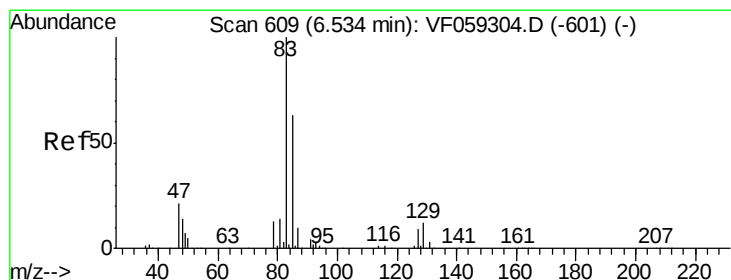
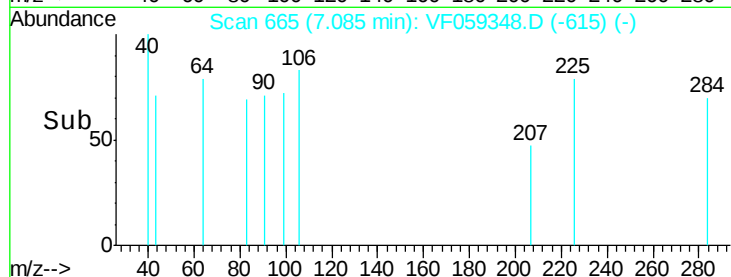
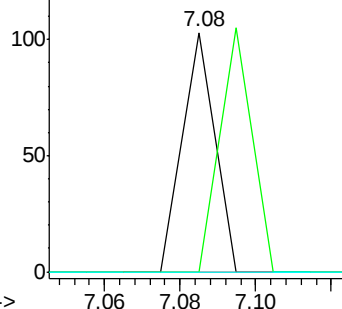
87 0.0 0.5 0.7#



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



#47

Bromodichloromethane

Concen: 1.304 ug/l

RT: 6.51 min Scan# 607

Delta R.T. -0.02 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

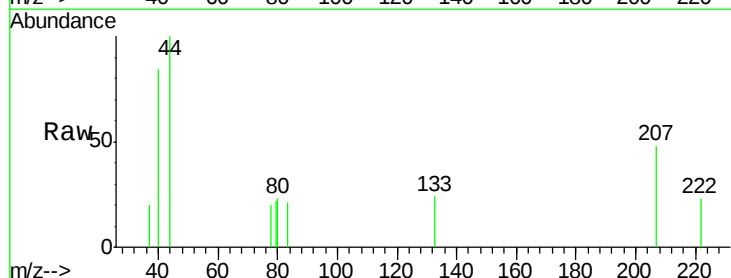
Tgt Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

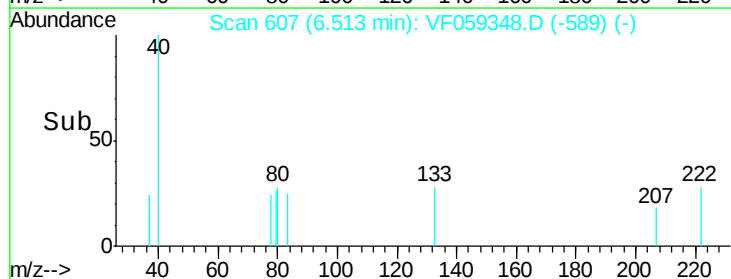
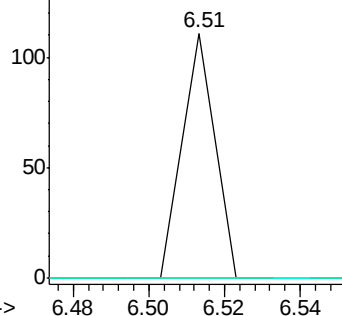
127 0.0 7.0 10.4#

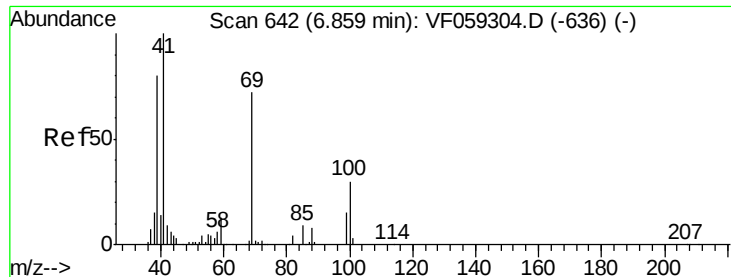


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

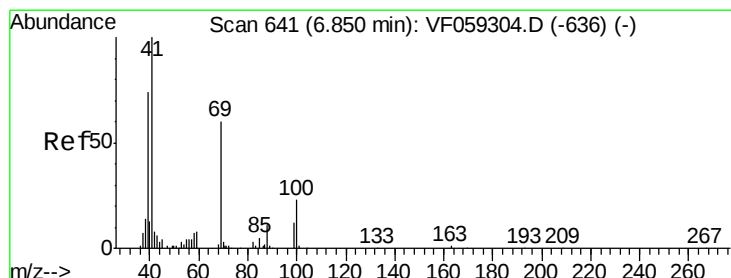
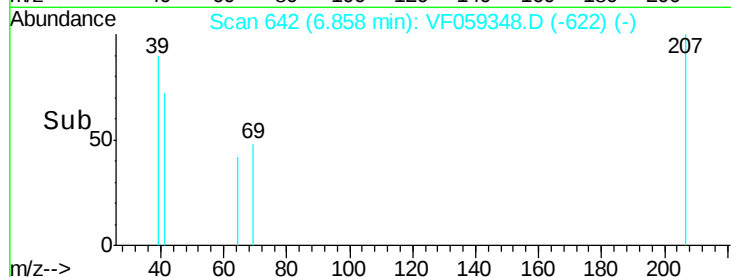
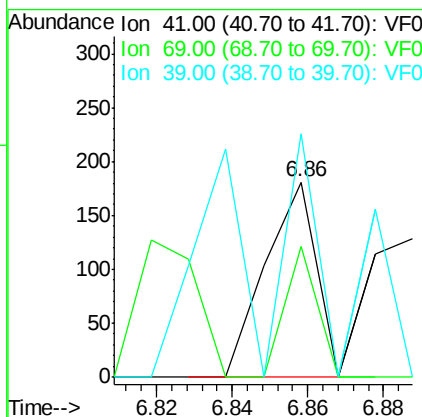
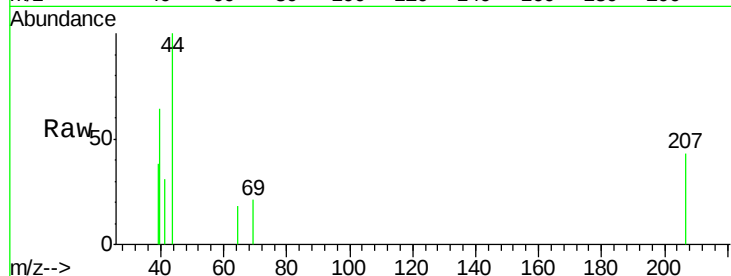




#48
Methvl methacrylate
Concen: 7.912 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

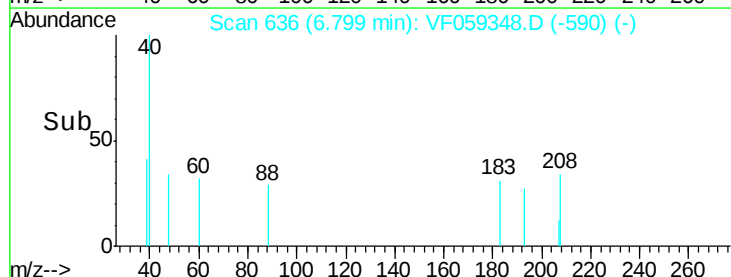
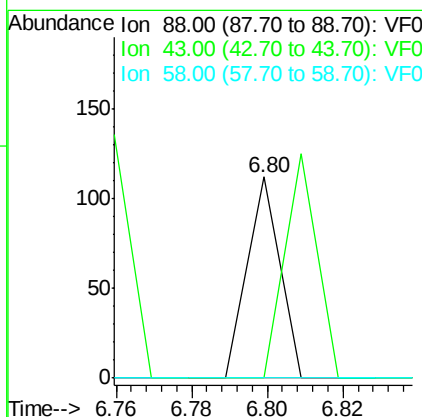
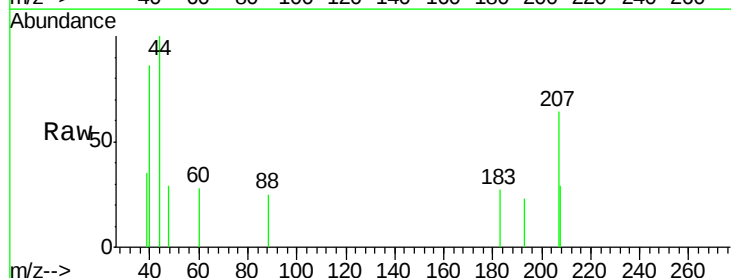
Instrument :
MSVOA_F
ClientSampled :

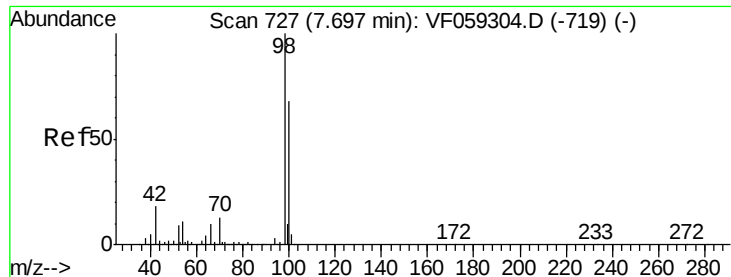
Tot Ion: 41 Resp: 168
Ion Ratio Lower Upper
41 100
69 66.9 57.3 85.9
39 332.6 64.4 96.6#



#49
1,4-Dioxane
Concen: 564.000 ug/l
RT: 6.80 min Scan# 636
Delta R.T. -0.05 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 41.160 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

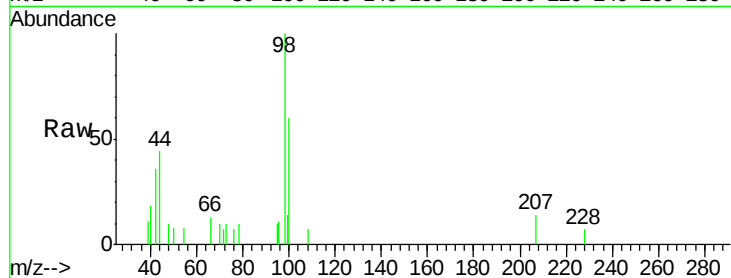
ClientSampleId :

Tot Ion: 98 Resp: 3242

Ion Ratio Lower Upper

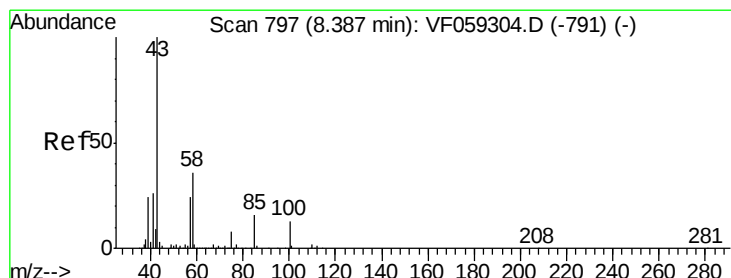
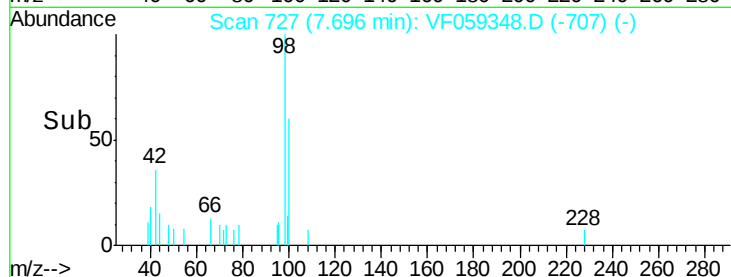
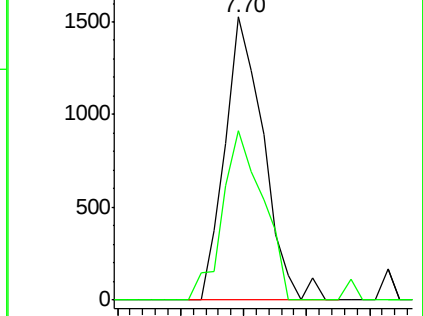
98 100

100 60.0 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 2.812 ug/l

RT: 8.34 min Scan# 792

Delta R.T. -0.05 min

Lab File: VF059348.D

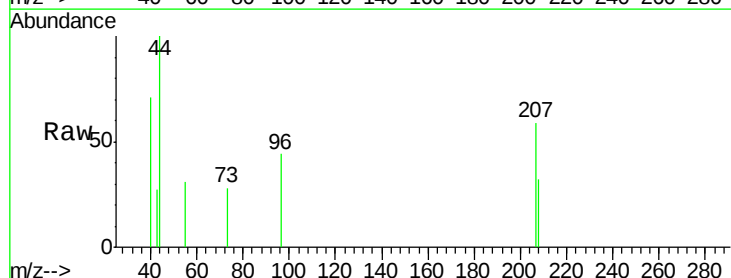
Acq: 27 Jun 2018 19:27

Tgt Ion: 43 Resp: 66

Ion Ratio Lower Upper

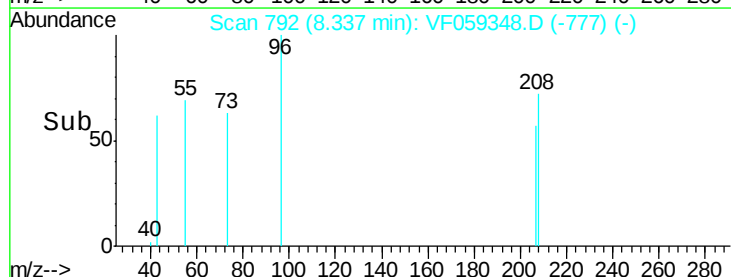
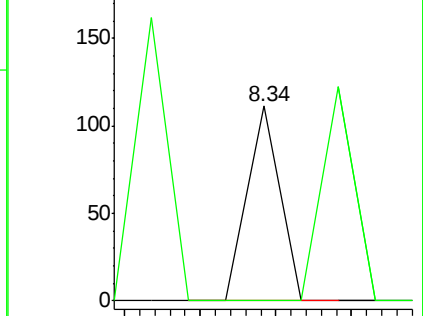
43 100

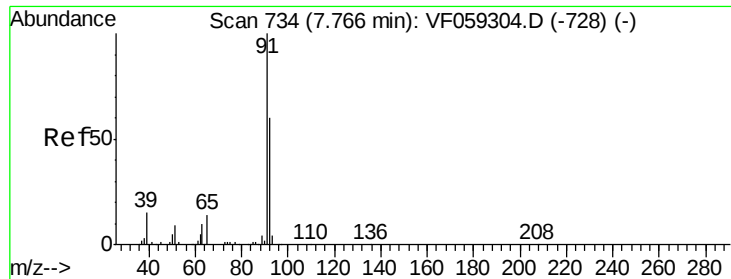
58 0.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 1.870 ug/l

RT: 7.80 min Scan# 738

Delta R.T. 0.04 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

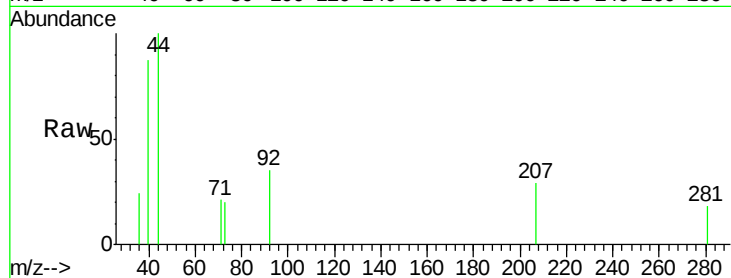
ClientSampled :

Tot Ion: 92 Resp: 118

Ion Ratio Lower Upper

92 100

91 0.0 132.8 199.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.80

200

150

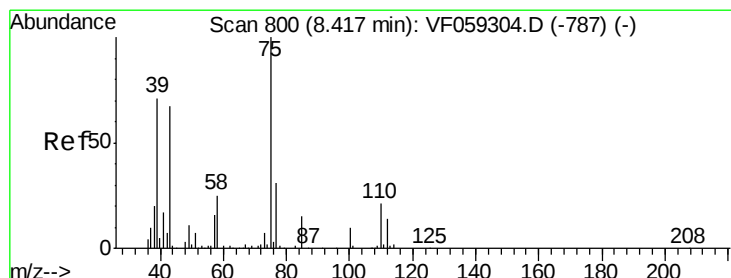
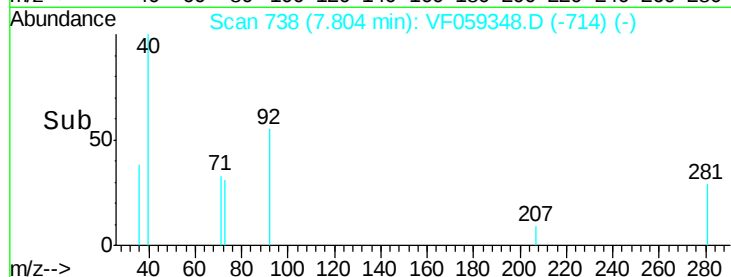
100

50

0

7.78 7.80 7.82

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.387 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.01 min

Lab File: VF059348.D

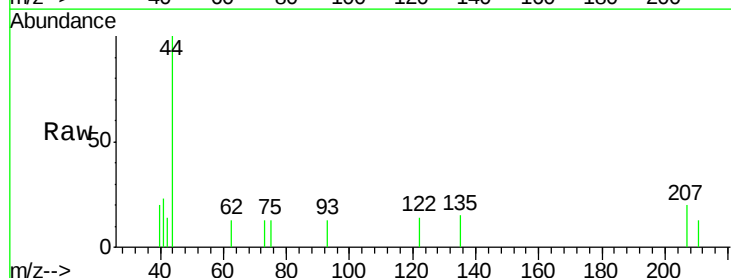
Acq: 27 Jun 2018 19:27

Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.41

150

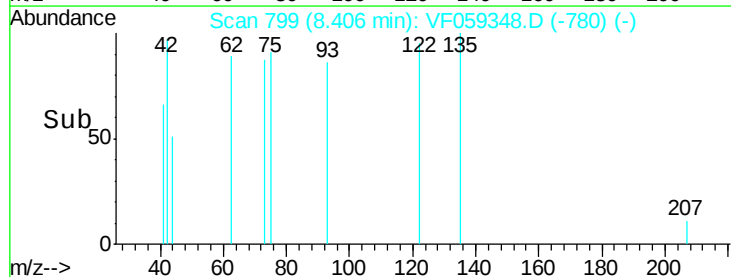
100

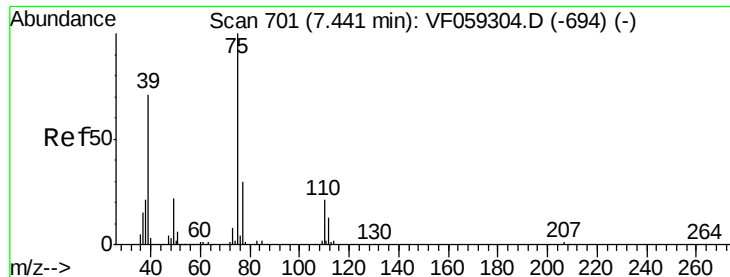
50

0

8.38 8.40 8.42

Time-->





#54

cis-1,3-Dichloropropene

Concen: 1.656 ug/l

RT: 7.45 min Scan# 702

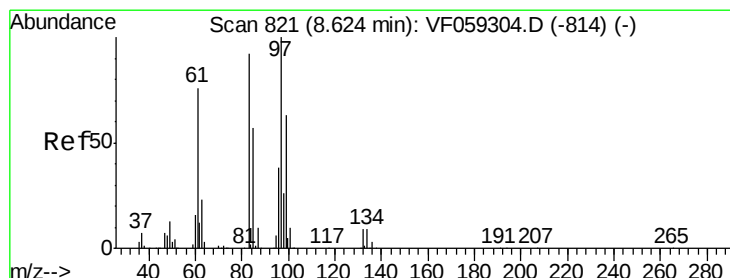
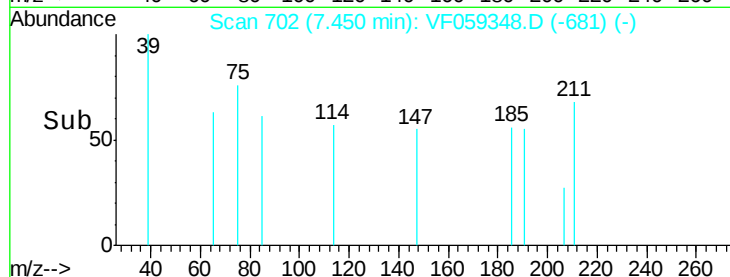
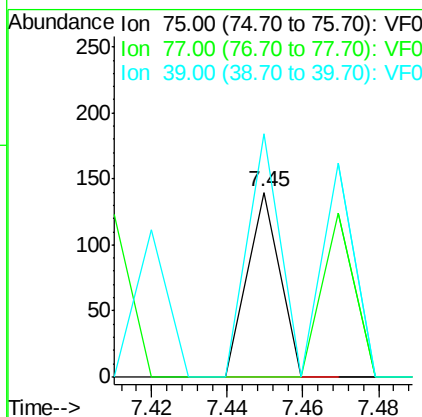
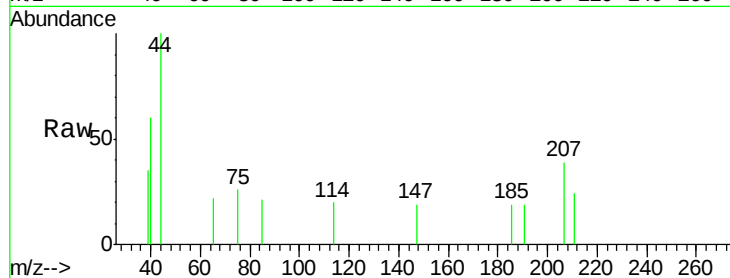
Delta R.T. 0.01 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	75	Resp:	83
Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.3	36.5#
39	131.4	57.2	85.8#



#55

1,1,2-Trichloroethane

Concen: 2.898 ug/l

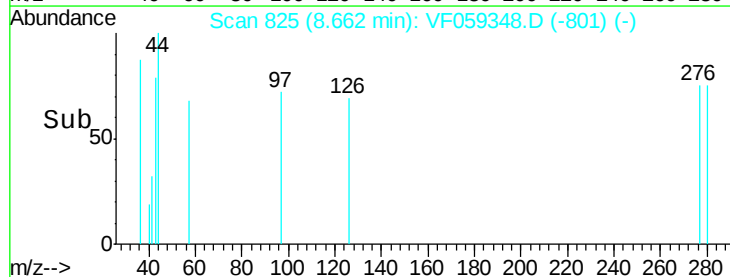
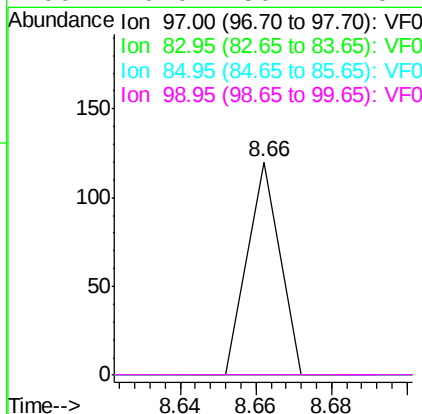
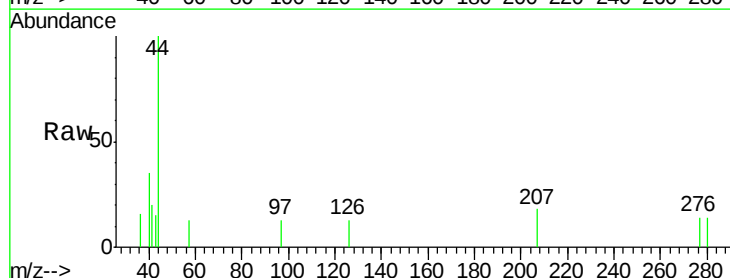
RT: 8.66 min Scan# 825

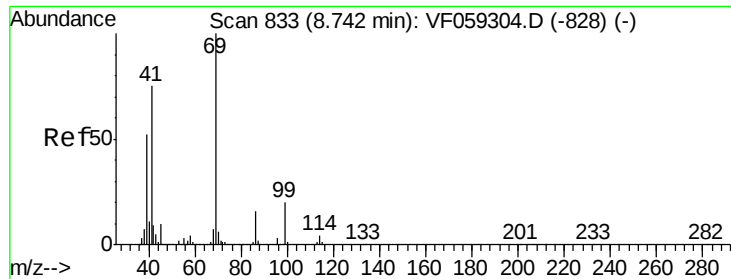
Delta R.T. 0.04 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Tgt Ion:	97	Resp:	71
Ion	Ratio	Lower	Upper
97	100		
83	0.0	73.8	110.8#
85	0.0	45.5	68.3#
99	0.0	50.7	76.1#





#56

Ethyl methacrylate

Concen: 2.504 ug/l

RT: 8.71 min Scan# 830

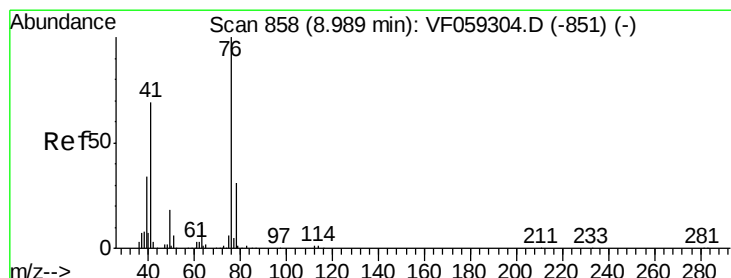
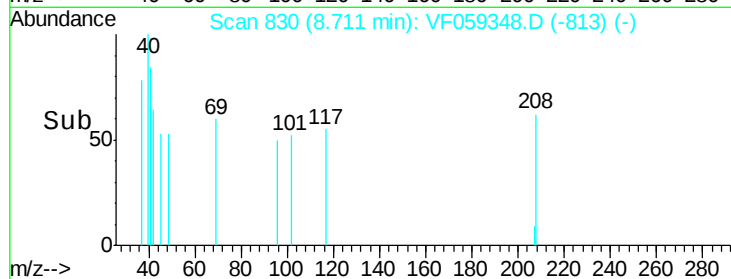
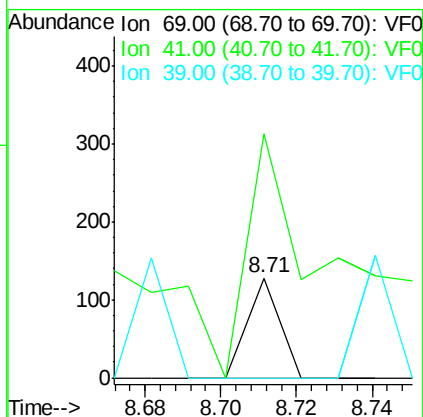
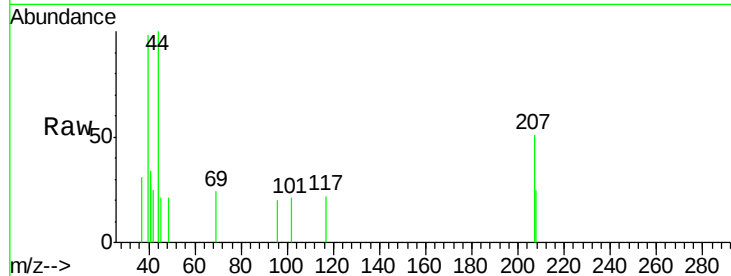
Delta R.T. -0.03 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	69.00	Resp:	76
Ion	Ratio	Lower	Upper
69	100		
41	244.5	60.3	90.5#
39	0.0	42.2	63.4#



#57

1,3-Dichloropropane

Concen: 1.713 ug/l

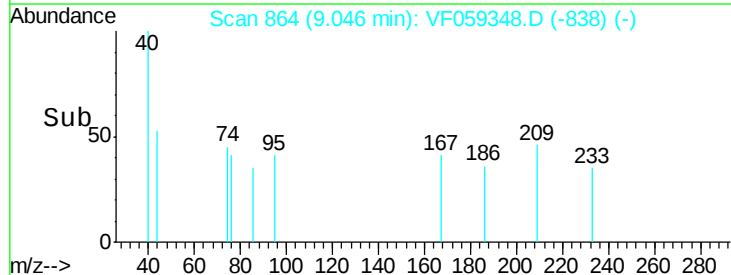
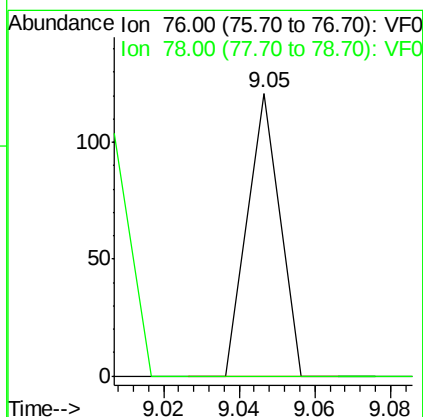
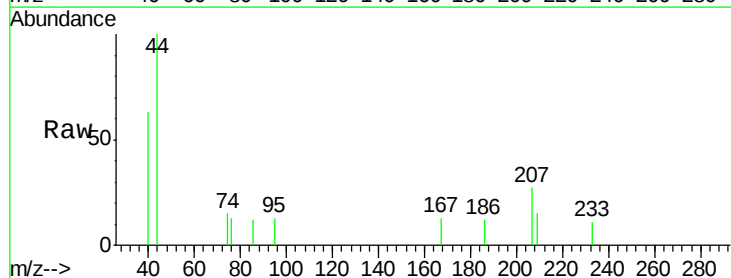
RT: 9.05 min Scan# 864

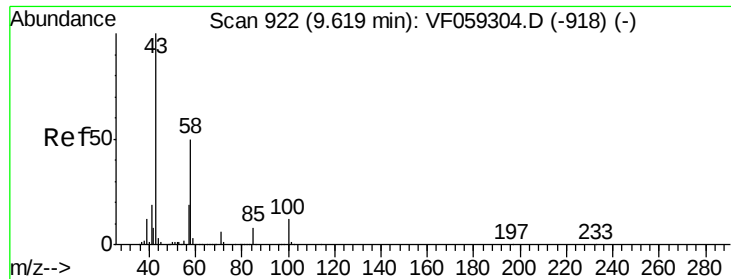
Delta R.T. 0.06 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Tgt Ion:	76.00	Resp:	72
Ion	Ratio	Lower	Upper
76	100		
78	0.0	24.9	37.3#

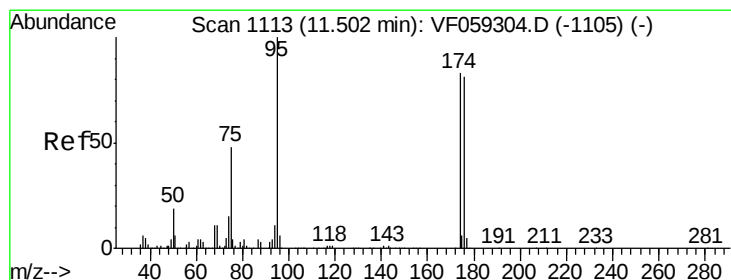
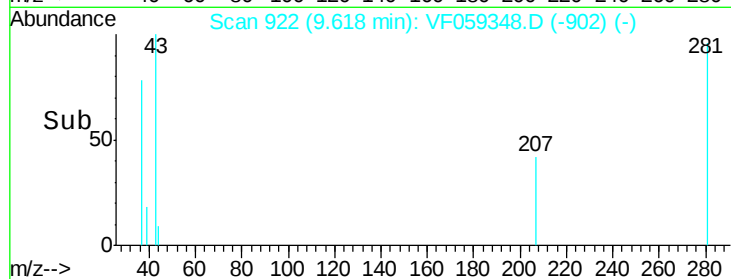
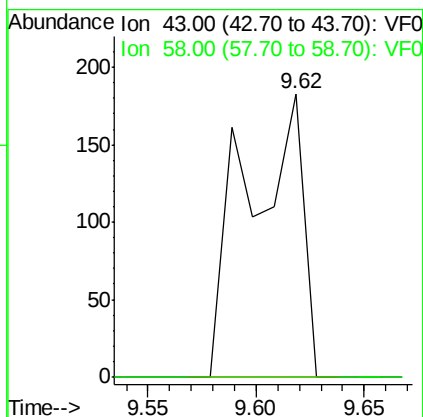
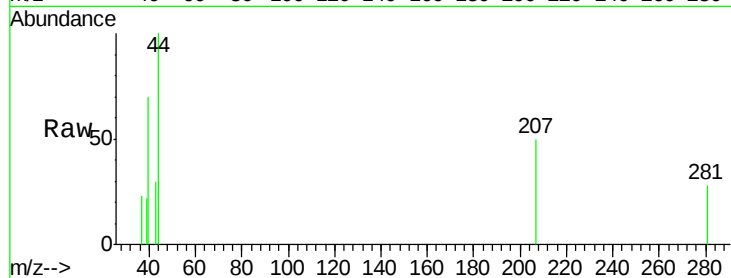




#59
2-Hexanone
Concen: 1.887 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

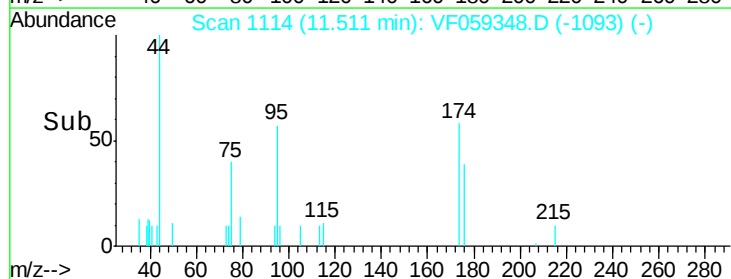
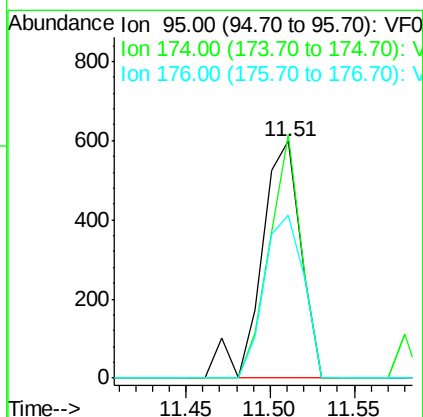
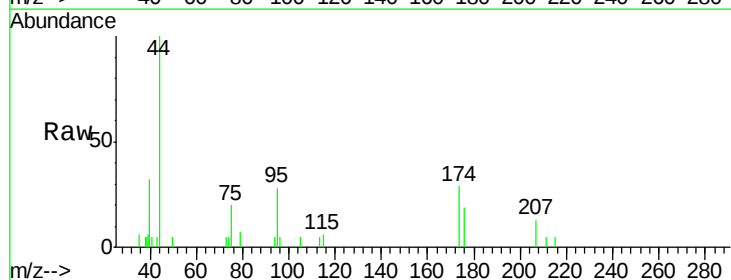
Instrument :
MSVOA_F
ClientSampleId :

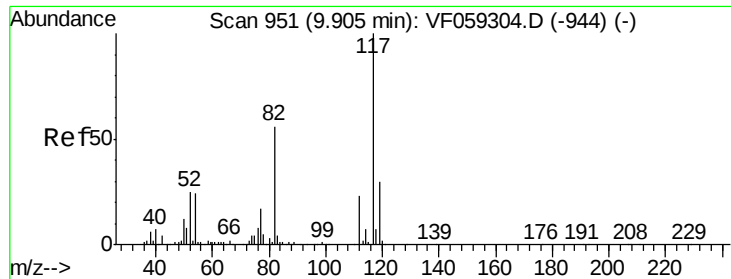
Tot Ion: 43 Resp: 329
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 21.989 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 95 Resp: 977
Ion Ratio Lower Upper
95 100
174 102.7 0.0 165.2
176 68.6 0.0 161.0

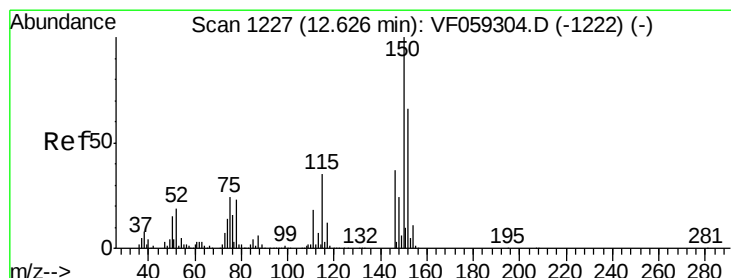
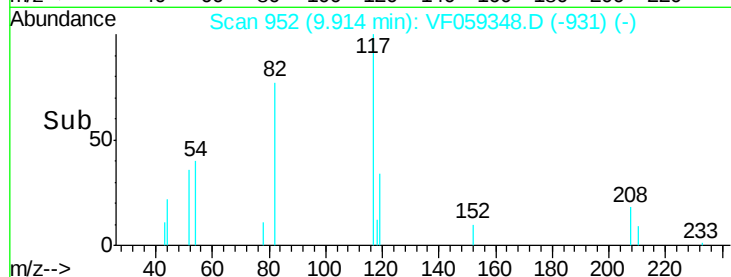
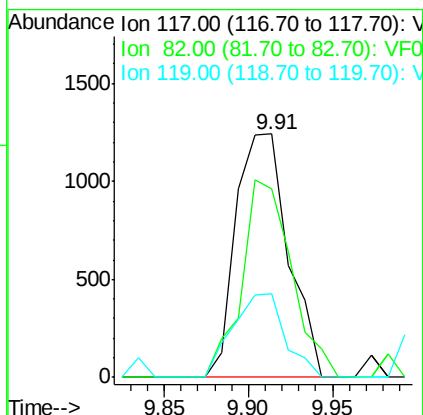
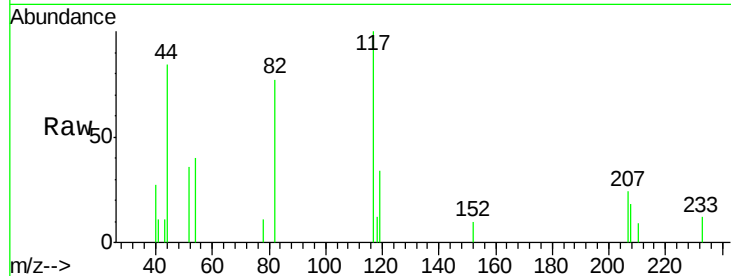




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

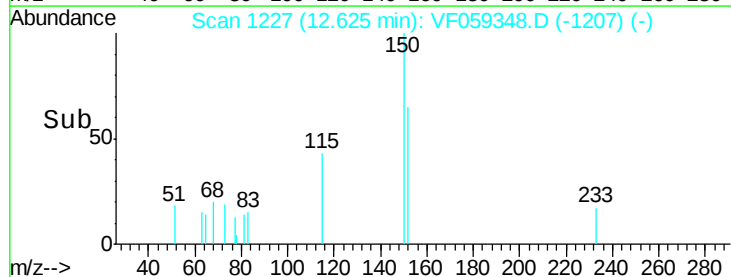
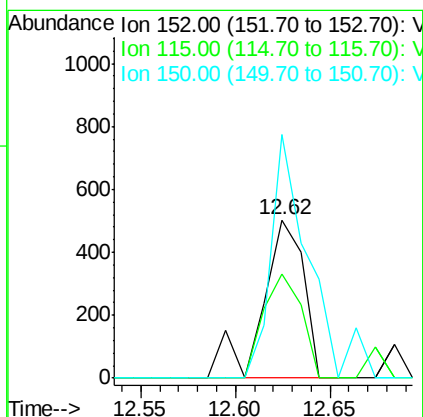
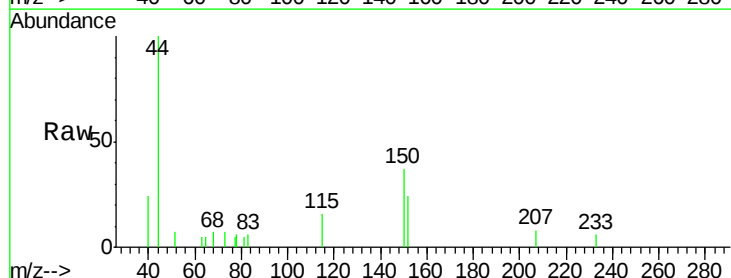
Instrument :
MSVOA_F
ClientSampleId :

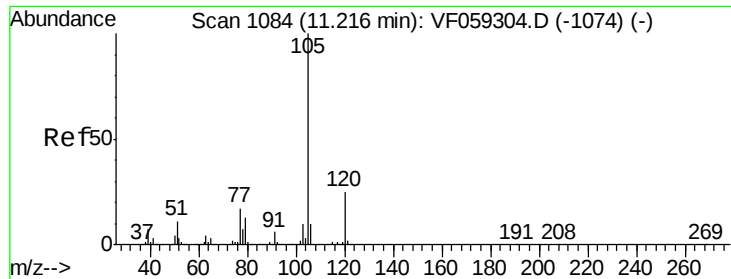
Tot Ion:117 Resp: 2687
Ion Ratio Lower Upper
117 100
82 77.3 44.6 66.8#
119 34.4 24.1 36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion:152 Resp: 766
Ion Ratio Lower Upper
152 100
115 66.1 27.1 81.3
150 153.6 0.0 305.2





#73

Isopropylbenzene

Concen: 1.345 ug/l

RT: 11.20 min Scan# 1082

Delta R.T. -0.02 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

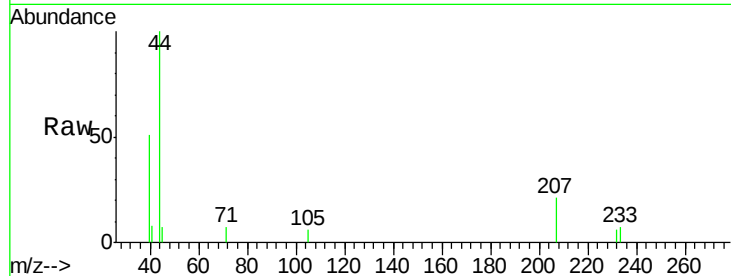
ClientSampleId :

Tot Ion:105 Resp: 60

Ion Ratio Lower Upper

105 100

120 0.0 12.3 36.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.20

100

80

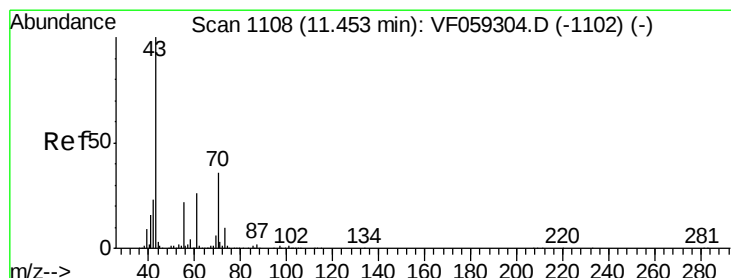
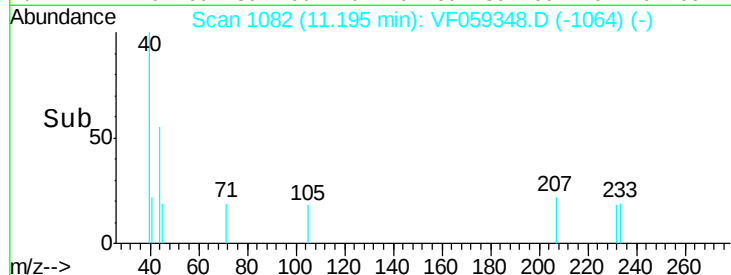
60

40

20

0

Time--> 11.16 11.18 11.20 11.22



#74

N-ethyl acetate

Concen: 6.731 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Tgt Ion: 43 Resp: 109

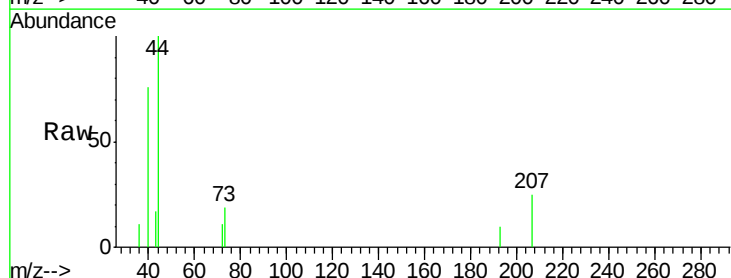
Ion Ratio Lower Upper

43 100

70 0.0 28.8 43.2#

55 0.0 17.4 26.0#

61 0.0 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

300

250

200

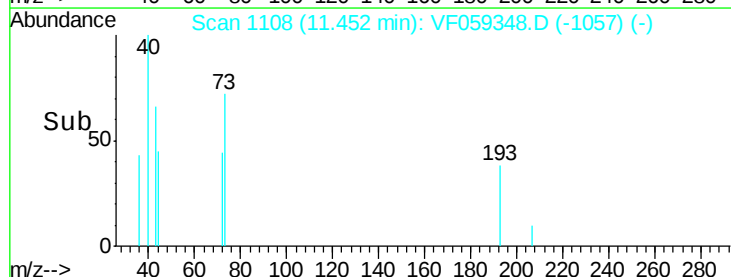
150

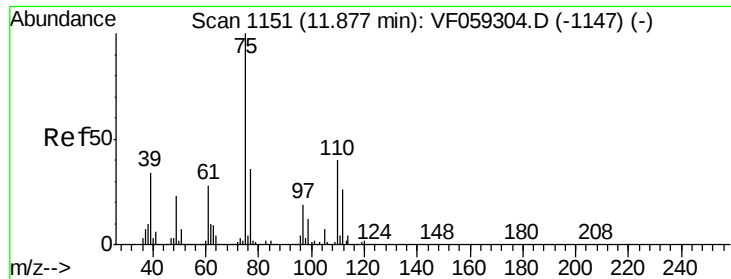
100

50

0

Time--> 11.42 11.44 11.46 11.48

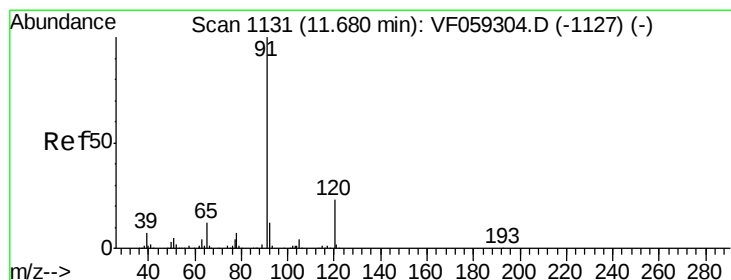
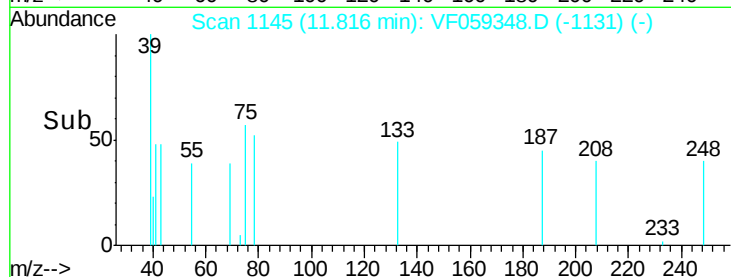
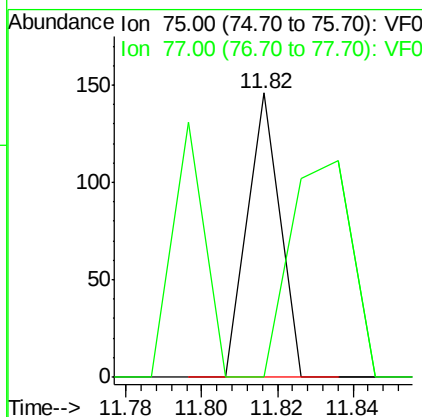
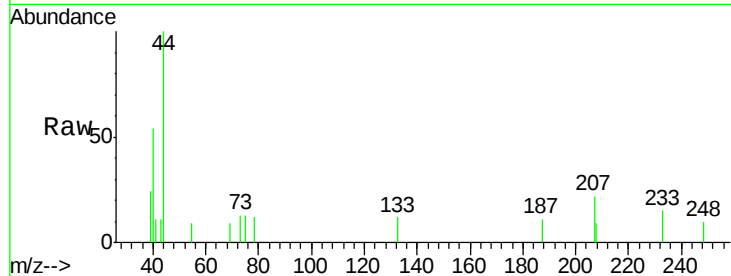




#76
 1,2,3-Trichloropropane
 Concen: 10.116 ug/l
 RT: 11.82 min Scan# 1145
 Delta R.T. -0.06 min
 Lab File: VF059348.D
 Acq: 27 Jun 2018 19:27

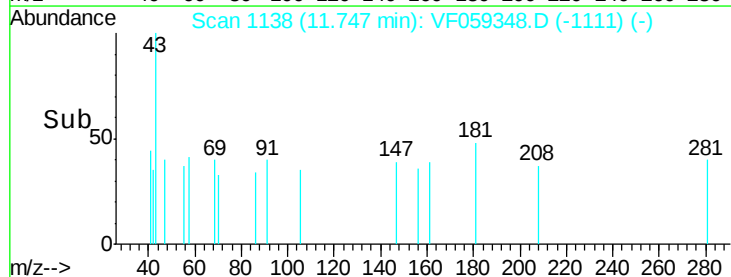
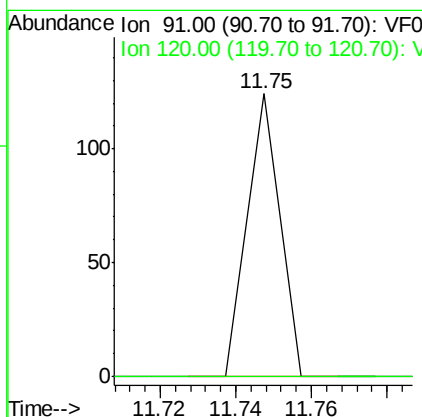
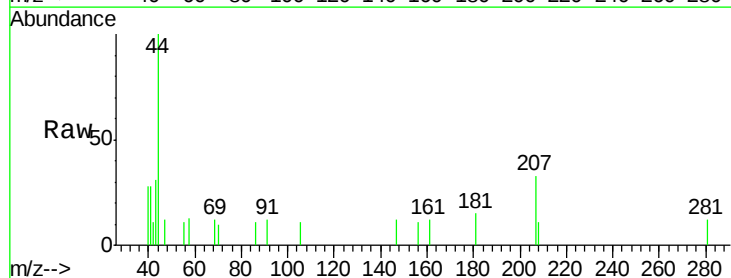
Instrument :
 MSVOA_F
 ClientSampleId :

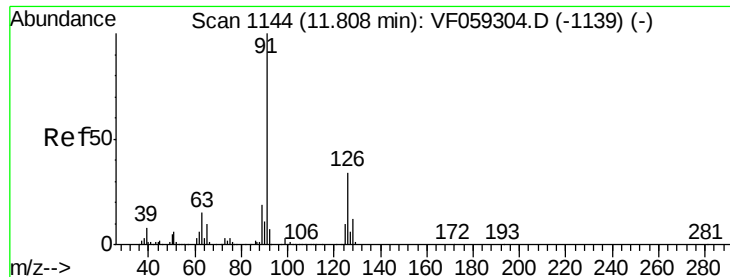
Tot Ion: 75 Resp: 86
 Ion Ratio Lower Upper
 75 100
 77 0.0 18.0 54.0#



#78
 n-propylbenzene
 Concen: 1.362 ug/l
 RT: 11.75 min Scan# 1138
 Delta R.T. 0.07 min
 Lab File: VF059348.D
 Acq: 27 Jun 2018 19:27

Tgt Ion: 91 Resp: 73
 Ion Ratio Lower Upper
 91 100
 120 0.0 11.7 35.0#





#79

2-Chlorotoluene

Concen: 2.229 ug/l

RT: 11.75 min Scan# 1138

Delta R.T. -0.06 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

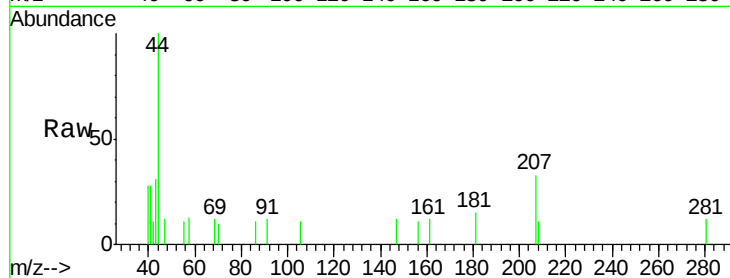
ClientSampled :

Tot Ion: 91 Resp: 73

Ion Ratio Lower Upper

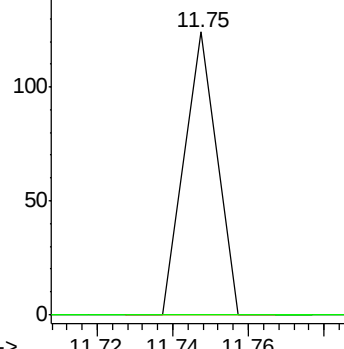
91 100

126 0.0 17.2 51.5#

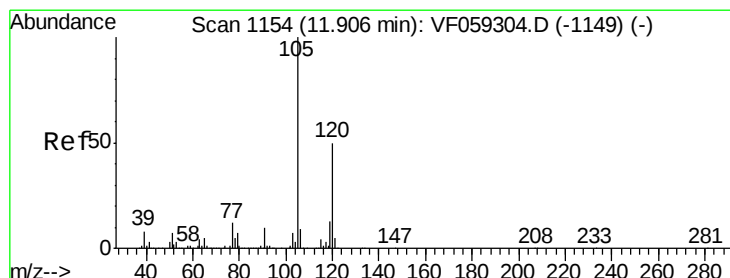
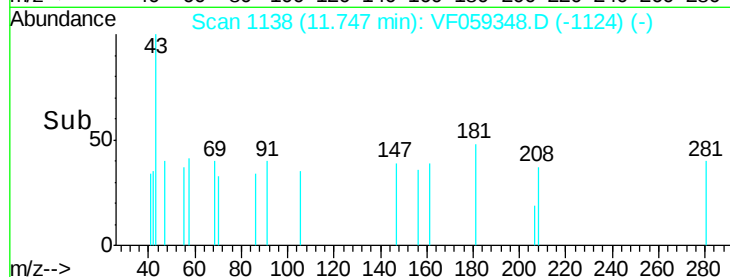


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.688 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.02 min

Lab File: VF059348.D

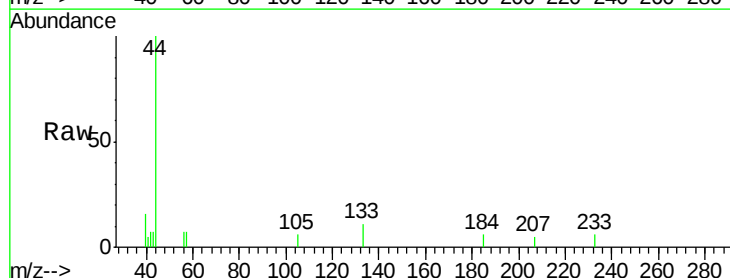
Acq: 27 Jun 2018 19:27

Tgt Ion: 105 Resp: 66

Ion Ratio Lower Upper

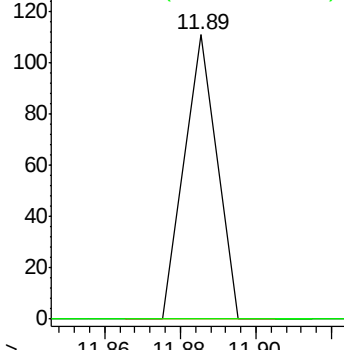
105 100

120 0.0 24.9 74.7#

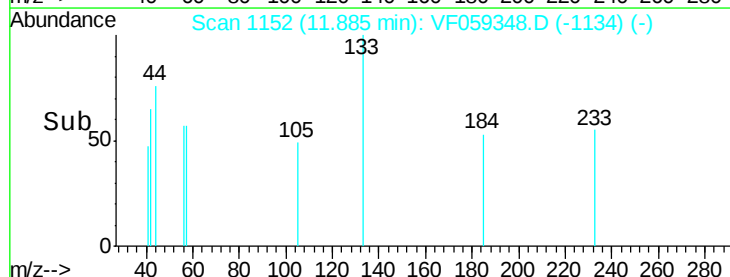


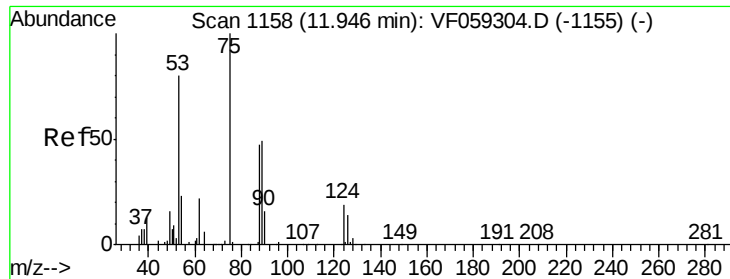
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->

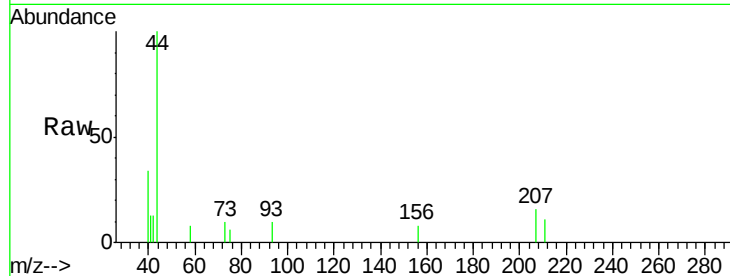




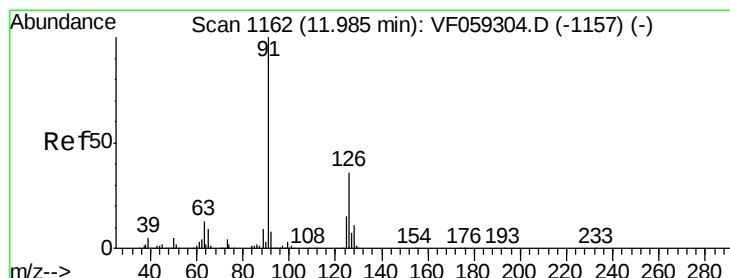
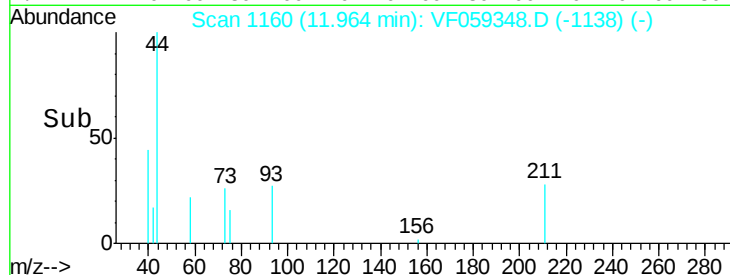
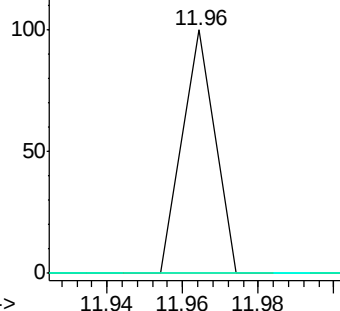
#81
trans-1,4-Dichloro-2-butene
Concen: 11.660 ug/l
RT: 11.96 min Scan# 1160
Delta R.T. 0.02 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 59
Ion Ratio Lower Upper
75 100
53 0.0 68.8 103.2#
89 0.0 42.0 63.0#

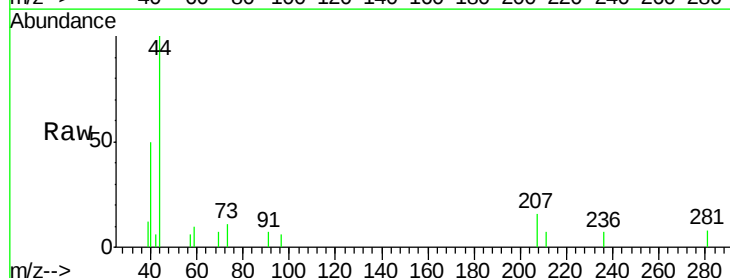


Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0

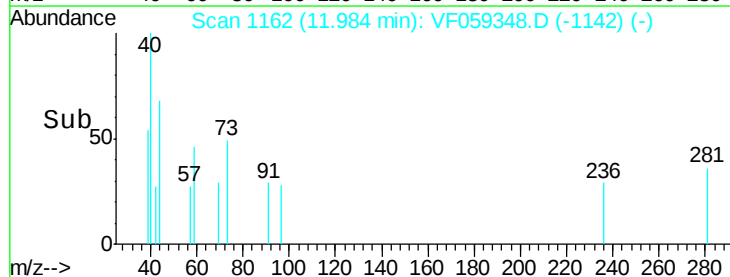
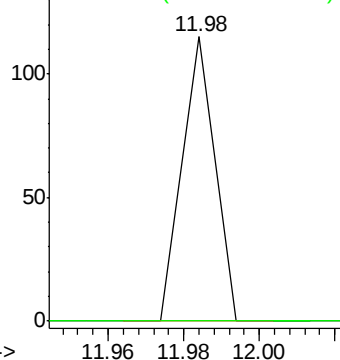


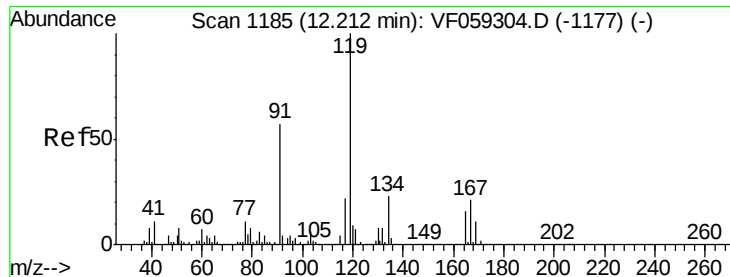
#82
4-Chlorotoluene
Concen: 1.939 ug/l
RT: 11.98 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VF059348.D
Acq: 27 Jun 2018 19:27

Tgt Ion: 91 Resp: 68
Ion Ratio Lower Upper
91 100
126 0.0 18.2 54.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 2.225 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

ClientSampleId :

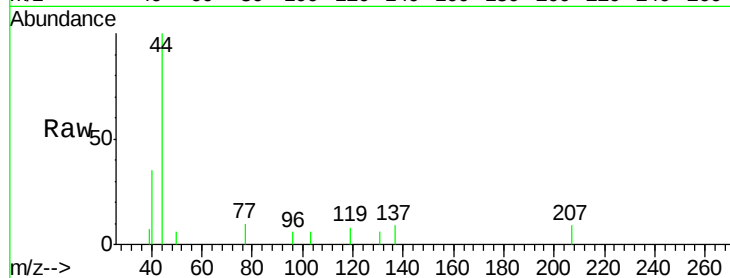
Tot Ion:119 Resp: 87

Ion Ratio Lower Upper

119 100

91 0.0 28.4 85.2#

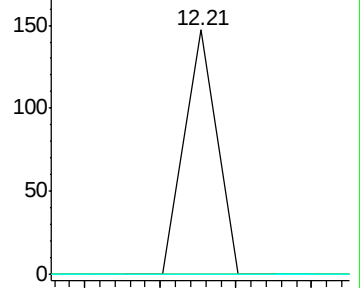
134 0.0 11.7 35.1#



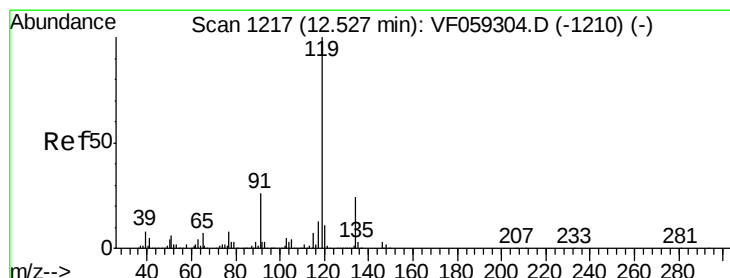
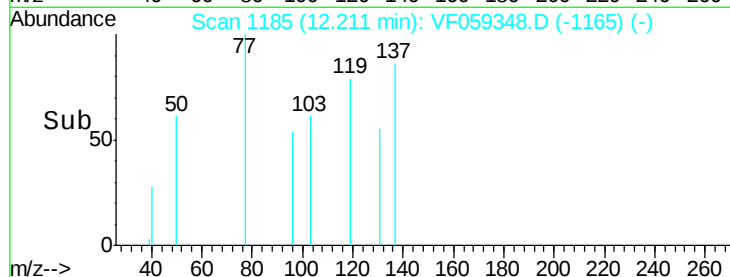
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



Time--> 12.18 12.20 12.22 12.24



#86

p-Isopropyltoluene

Concen: 1.587 ug/l

RT: 12.48 min Scan# 1212

Delta R.T. -0.05 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

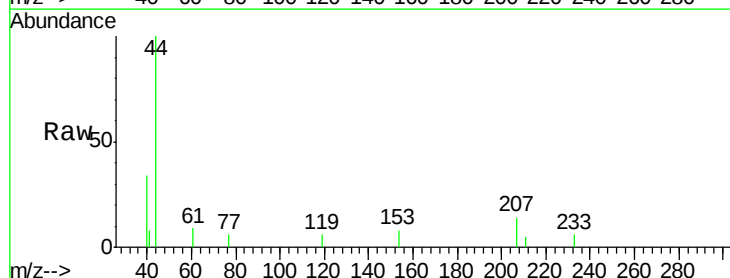
Tgt Ion:119 Resp: 69

Ion Ratio Lower Upper

119 100

134 0.0 12.2 36.4#

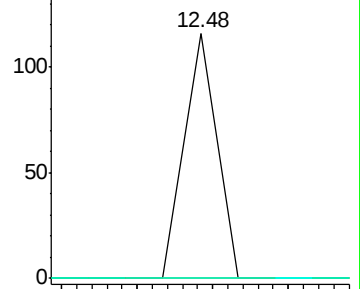
91 0.0 12.9 38.6#



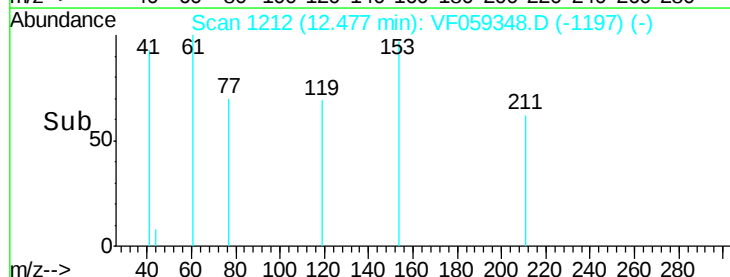
Abundance Ion 119.00 (118.70 to 119.70): V

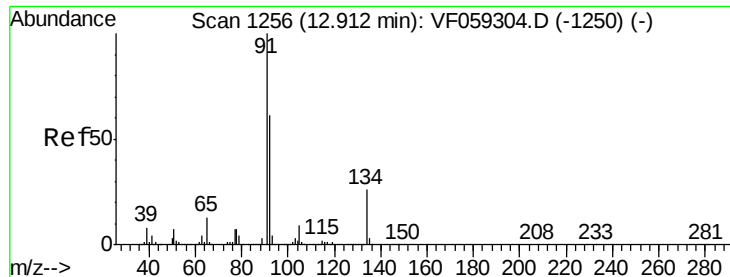
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0



Time--> 12.44 12.46 12.48 12.50





#89

n-Butylbenzene

Concen: 1.495 ug/l

RT: 12.93 min Scan# 1258

Delta R.T. 0.02 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

ClientSampled :

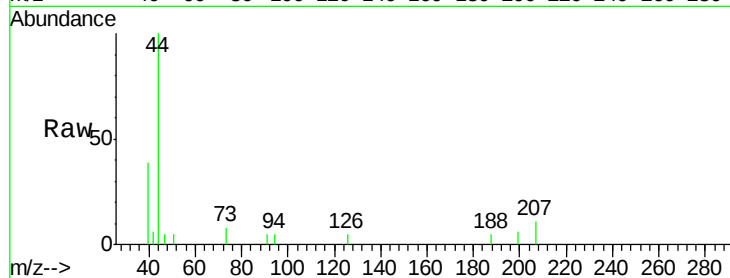
Tot Ion: 91 Resp: 66

Ion Ratio Lower Upper

91 100

92 0.0 30.3 91.0#

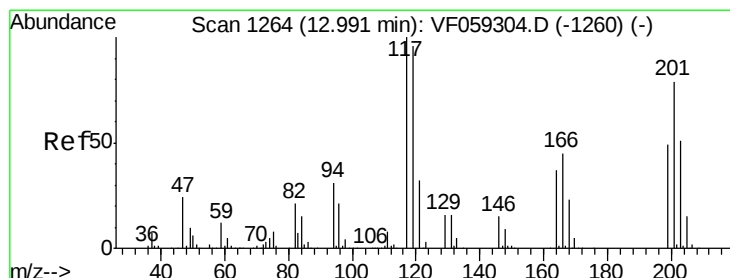
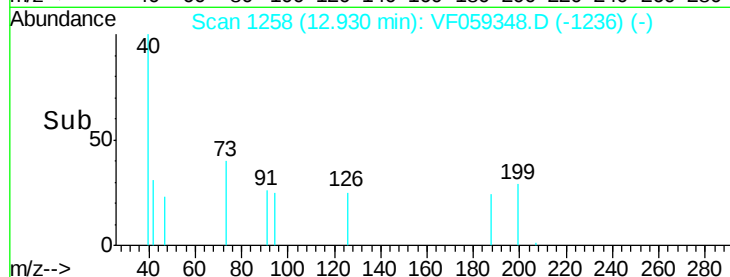
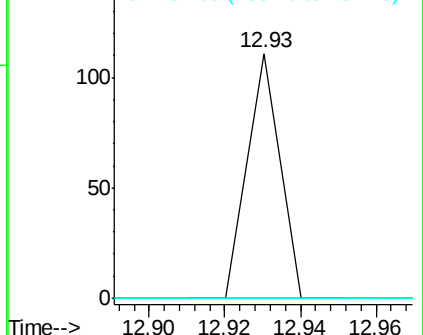
134 0.0 12.9 38.7#



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: 6.458 ug/l

RT: 12.88 min Scan# 1253

Delta R.T. -0.11 min

Lab File: VF059348.D

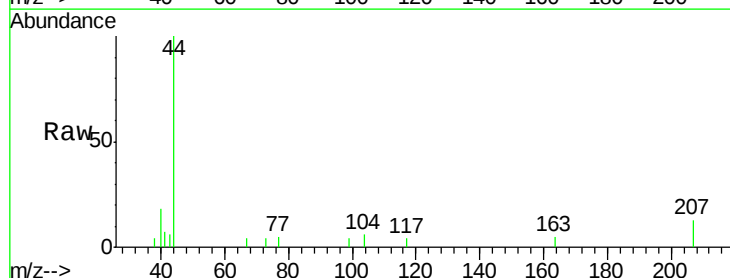
Acq: 27 Jun 2018 19:27

Tgt Ion: 117 Resp: 70

Ion Ratio Lower Upper

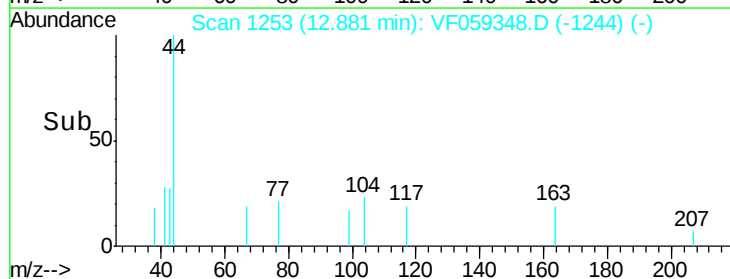
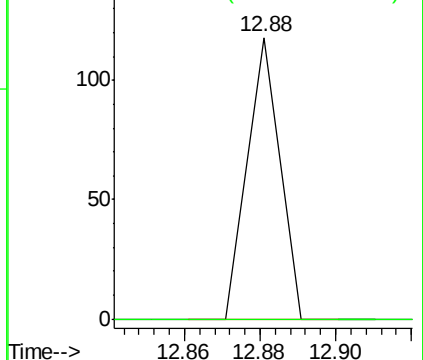
117 100

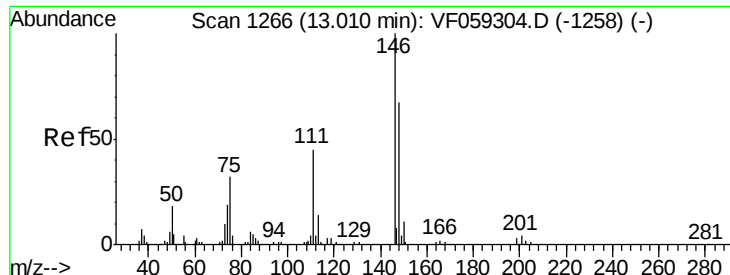
201 0.0 39.5 118.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 2.714 ug/l

RT: 13.04 min Scan# 1269

Delta R.T. 0.03 min

Lab File: VF059348.D

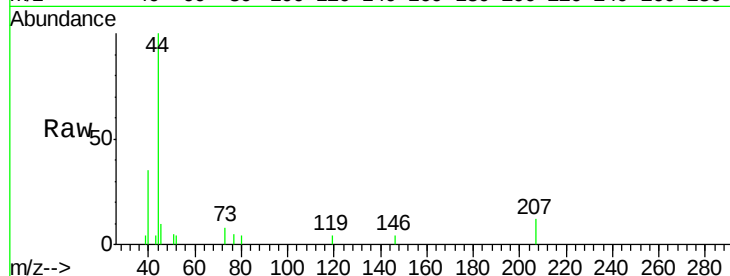
Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.7	68.0#
148	0.0	33.5	100.4#



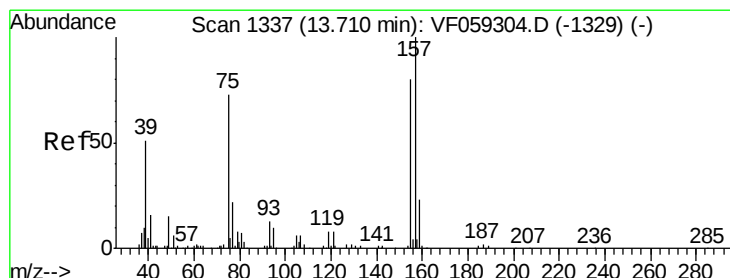
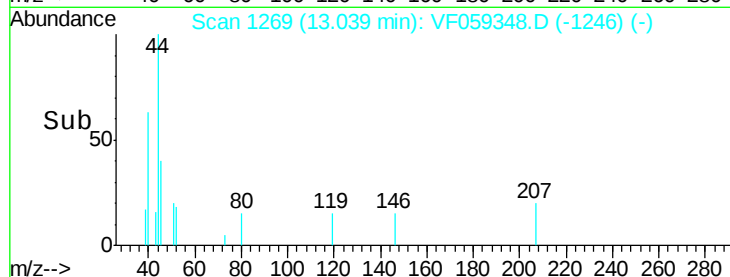
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

13.04

Time--> 13.00 13.02 13.04 13.06



#92

1,2-Dibromo-3-Chloropropane

Concen: 27.618 ug/l

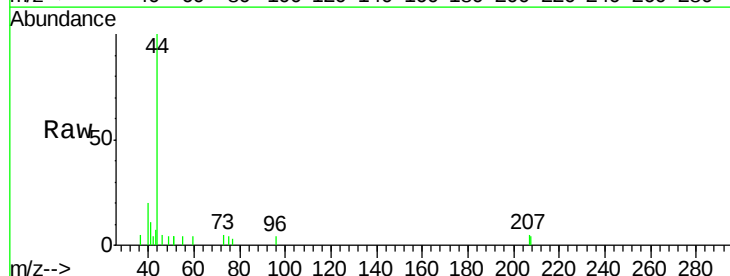
RT: 13.63 min Scan# 1329

Delta R.T. -0.08 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	54.6	163.8#
157	0.0	68.7	205.9#



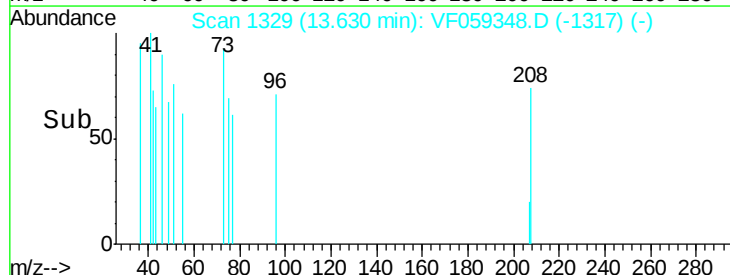
Abundance Ion 75.00 (74.70 to 75.70): VF0

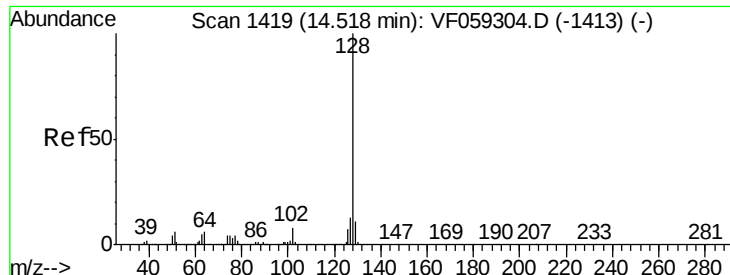
Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

13.63

Time--> 13.60 13.62 13.64 13.66





#95

Naphthalene

Concen: 1.927 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

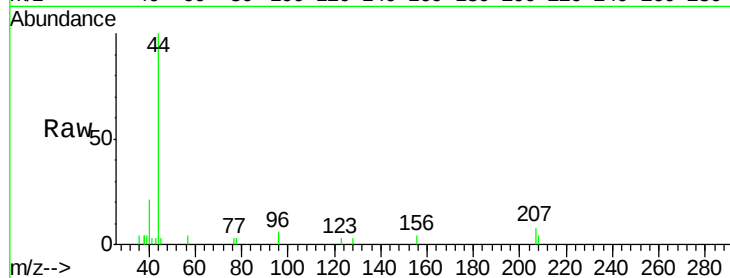
Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA_F

ClientSampleId :



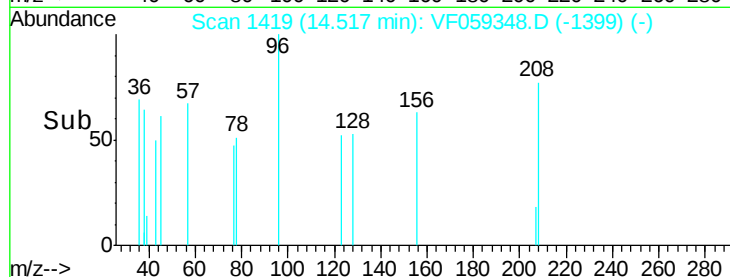
Tot Ion:128 Resp: 67

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 0.0 8.8 13.2#



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

