

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050819\
 Data File : VF062387.D
 Acq On : 8 May 2019 19:52
 Operator : FY/SY
 Sample : K2672-17
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-09-1.0-1.5

Quant Time: May 09 05:03:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	388	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	132	50.00	ug/l	-0.01
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.90
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.61

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	79	21.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.08%	
35) Dibromofluoromethane	4.31	113	202	192.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	384.16%	
50) Toluene-d8	7.70	98	94	36.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.86%	
62) 4-Bromofluorobenzene	11.47	95	73	63.56	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	127.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	92	20.488	ug/l #	41
3) Chloromethane	1.14	50	588	198.542	ug/l #	42
4) Vinyl Chloride	1.16	62	76	25.728	ug/l #	42
5) Bromomethane	1.38	94	88	38.924	ug/l #	3
6) Chloroethane	1.45	64	76	51.173	ug/l #	41
7) Trichlorofluoromethane	1.78	101	97	15.826	ug/l #	20
8) Diethyl Ether	1.90	74	66	71.167	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	1.78	101	97	27.721	ug/l #	18
10) Methyl Iodide	1.95	142	69	11.966	ug/l #	29
11) Tert butyl alcohol	2.69	59	180	868.579	ug/l #	70
12) 1,1-Dichloroethene	1.91	96	184	61.854	ug/l #	1
13) Acrolein	2.08	56	64	522.649	ug/l #	1
14) Allyl chloride	2.18	41	95	36.152	ug/l #	5
15) Acrylonitrile	3.06	53	147	374.468	ug/l #	64
16) Acetone	2.34	43	297	400.400	ug/l #	62
17) Carbon Disulfide	1.99	76	105	16.188	ug/l #	71
18) Methyl Acetate	2.45	43	487	380.730	ug/l #	58
19) Methyl tert-butyl Ether	2.57	73	129	21.008	ug/l #	61
20) Methylene Chloride	2.51	84	60	22.357	ug/l #	5
21) trans-1,2-Dichloroethene	2.37	96	203	71.625	ug/l #	1
22) Diisopropyl ether	2.92	45	115	14.002	ug/l #	39
23) Vinyl Acetate	3.35	43	191	52.180	ug/l #	79
24) 1,1-Dichloroethane	3.05	63	69	13.901	ug/l #	86
25) 2-Butanone	4.56	43	174	186.717	ug/l #	60
26) 2,2-Dichloropropane	3.80	77	444	160.176	ug/l	88
27) cis-1,2-Dichloroethene	3.64	96	60	16.936	ug/l #	1
28) Bromochloromethane	3.92	49	62	27.542	ug/l #	1
29) Tetrahydrofuran	4.22	42	328	765.830	ug/l #	62
30) Chloroform	3.98	83	76	11.333	ug/l #	19
31) Cyclohexane	3.85	56	82	20.697	ug/l #	16
32) 1,1,1-Trichloroethane	4.45	97	63	10.961	ug/l #	14
36) 1,1-Dichloropropene	4.44	75	118	104.063	ug/l #	42
37) Ethyl Acetate	4.27	43	68	166.251	ug/l #	73
38) Carbon Tetrachloride	4.17	117	109	95.187	ug/l #	14

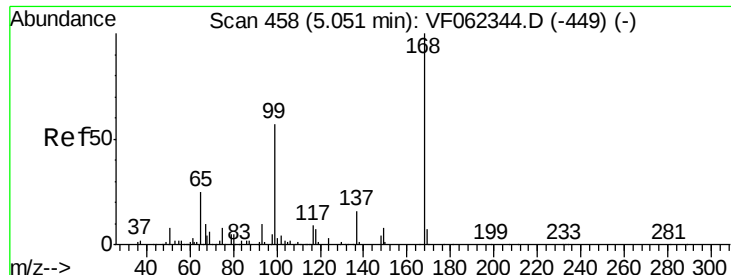
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050819\
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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	60	52.760	ug/l #	14
40) Benzene	4.80	78	65	26.031	ug/l #	48
41) Methacrylonitrile	4.88	41	216	794.429	ug/l #	45
42) 1,2-Dichloroethane	5.11	62	67	64.156	ug/l #	82
43) Isopropyl Acetate	7.09	43	108	209.397	ug/l #	1
44) Trichloroethene	5.71	130	65	70.863	ug/l	2
45) 1,2-Dichloropropane	6.34	63	85	150.290	ug/l #	43
46) Dibromomethane	6.18	93	76	162.071	ug/l #	1
47) Bromodichloromethane	6.60	83	79	67.383	ug/l #	27
48) Methyl methacrylate	6.87	41	675	1851.918	ug/l #	74
49) 1,4-Dioxane	6.73	88	62	16744.927	ug/l #	16
51) 4-Methyl-2-Pentanone	8.53	43	180	460.571	ug/l	94
53) t-1,3-Dichloropropene	8.28	75	69	77.814	ug/l #	1
54) cis-1,3-Dichloropropene	7.48	75	69	66.861	ug/l #	43
55) 1,1,2-Trichloroethane	8.79	97	99	202.453	ug/l #	14
56) Ethyl methacrylate	8.73	69	62	120.110	ug/l #	1
57) 1,3-Dichloropropane	9.01	76	85	115.076	ug/l #	42
58) 2-Chloroethyl Vinyl ether	7.45	63	62	399.509	ug/l #	42
59) 2-Hexanone	9.63	43	466	1724.068	ug/l	74
61) 1,2-Dibromoethane	9.15	107	73	127.016	ug/l	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

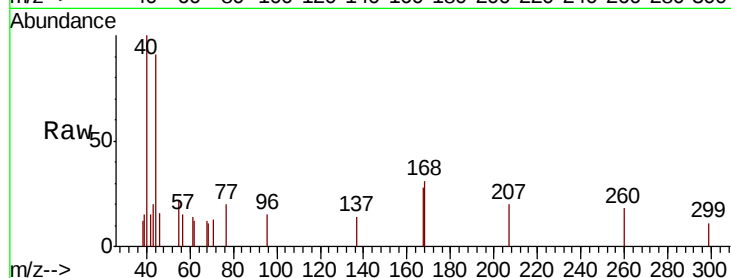
SB-09-1.0-1.5

Tot Ion:168 Resp: 388

Ion Ratio Lower Upper

168 100

99 0.0 45.9 68.9#



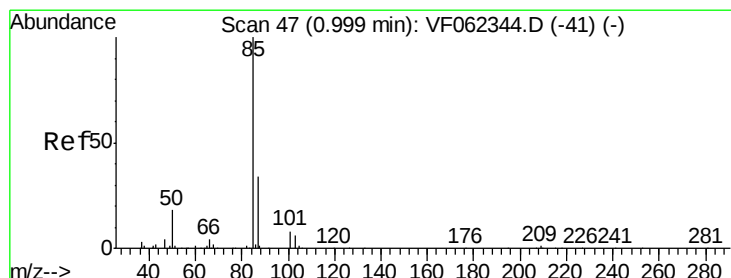
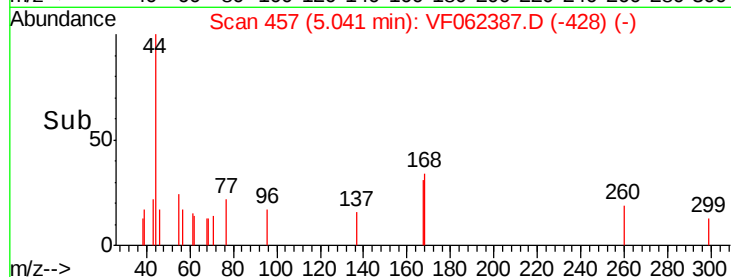
Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.04

Time-->

5.00 5.05 5.10



#2

Dichlorodifluoromethane

Concen: 20.488 ug/l

RT: 0.97 min Scan# 44

Delta R.T. -0.03 min

Lab File: VF062387.D

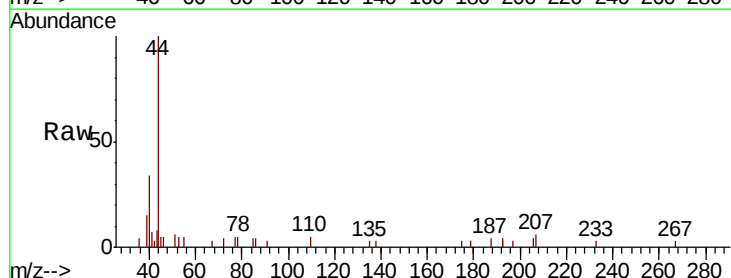
Acq: 8 May 2019 19:52

Tgt Ion: 85 Resp: 92

Ion Ratio Lower Upper

85 100

87 0.0 16.8 50.4#



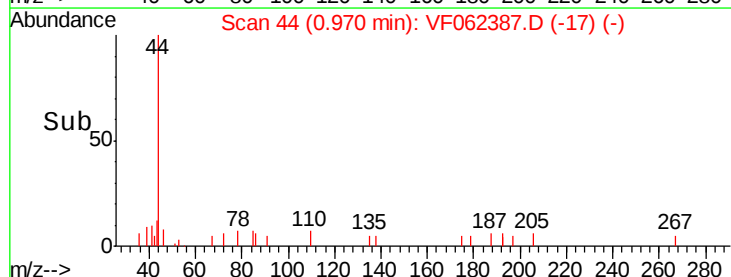
Abundance Ion 84.90 (84.60 to 85.60): VF0

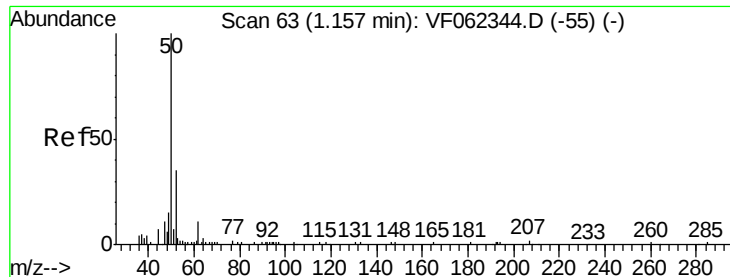
Ion 86.90 (86.60 to 87.60): VF0

0.97

Time-->

0.96 0.98





#3

Chloromethane

Concen: 198.542 ug/l

RT: 1.14 min Scan# 61

Delta R.T. -0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

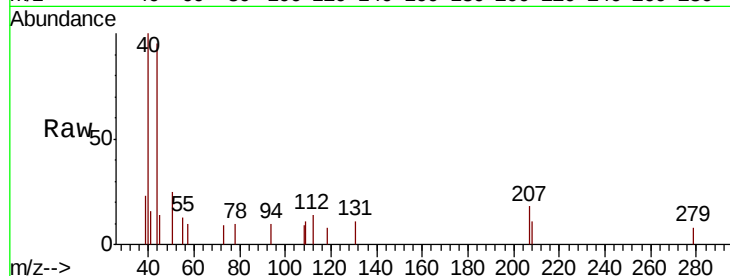
SB-09-1.0-1.5

Tot Ion: 50 Resp: 588

Ion Ratio Lower Upper

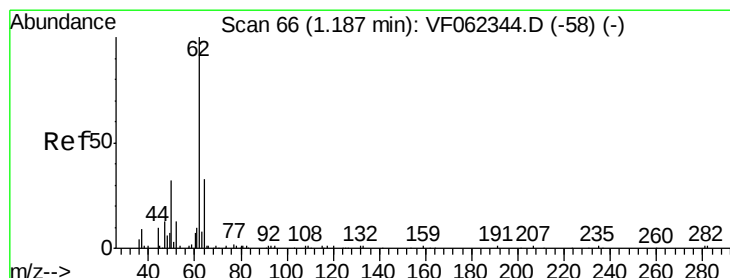
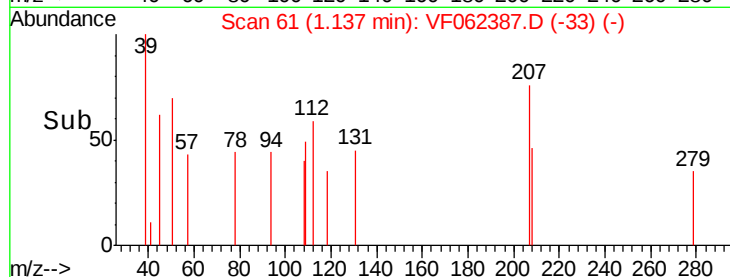
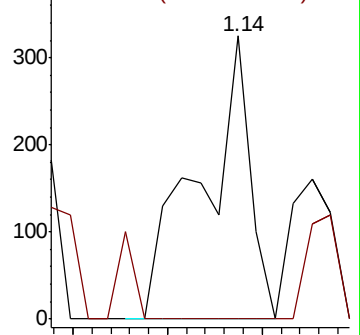
50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0



#4

Vinyl Chloride

Concen: 25.728 ug/l

RT: 1.16 min Scan# 63

Delta R.T. -0.03 min

Lab File: VF062387.D

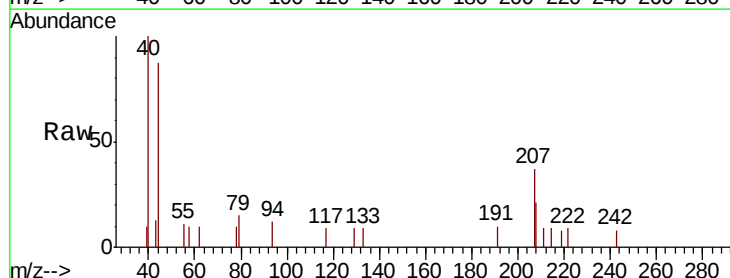
Acq: 8 May 2019 19:52

Tgt Ion: 62 Resp: 76

Ion Ratio Lower Upper

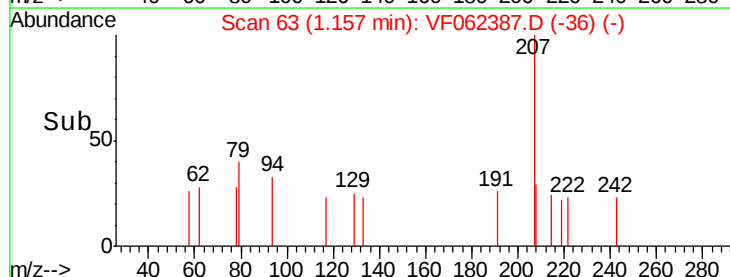
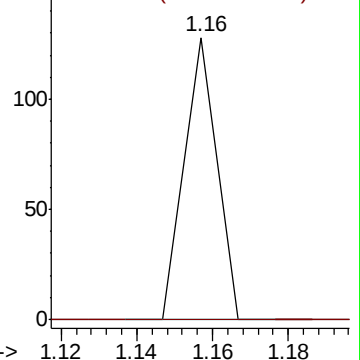
62 100

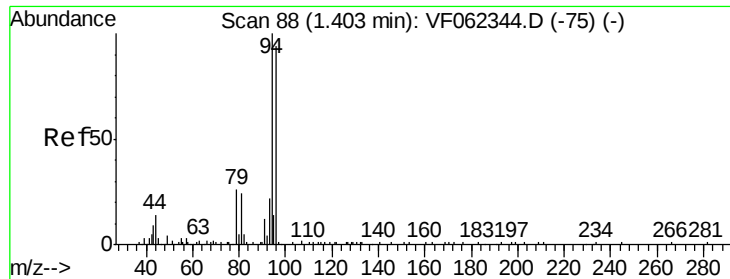
64 0.0 26.1 39.1#



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 63.90 (63.60 to 64.60): VF0





#5

Bromomethane

Concen: 38.924 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

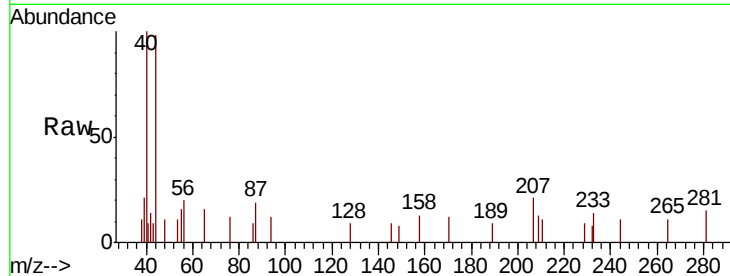
SB-09-1.0-1.5

Tot Ion: 94 Resp: 88

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.38

150

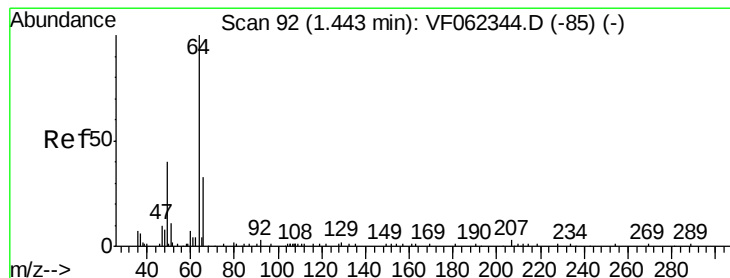
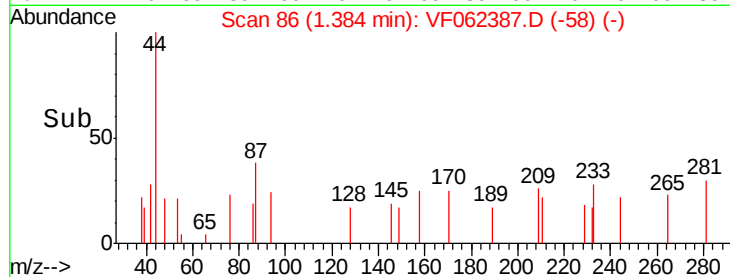
100

50

0

1.36 1.38 1.40

Time-->



#6

Chloroethane

Concen: 51.173 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062387.D

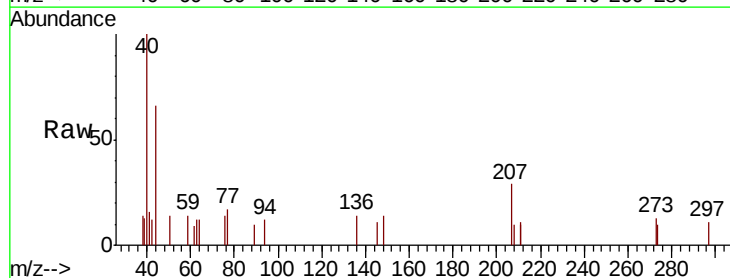
Acq: 8 May 2019 19:52

Tgt Ion: 64 Resp: 76

Ion Ratio Lower Upper

64 100

66 0.0 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0

150

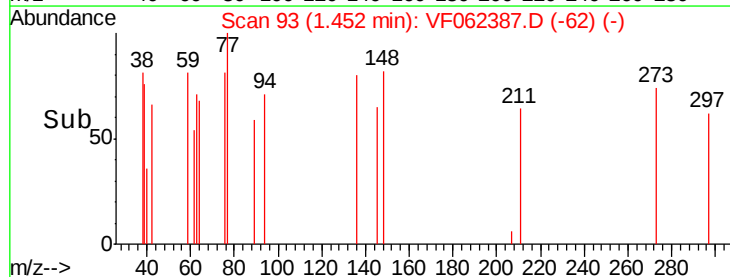
100

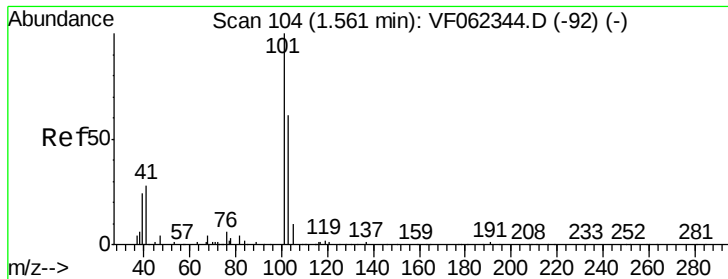
50

0

1.42 1.44 1.46 1.48

Time-->



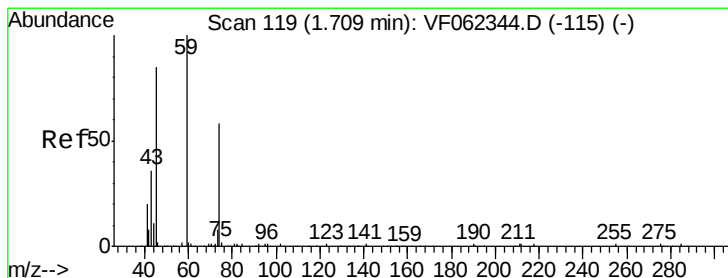
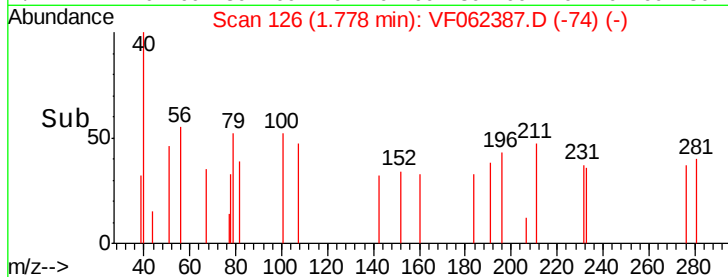
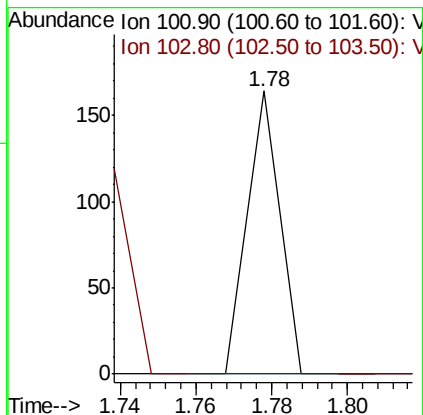
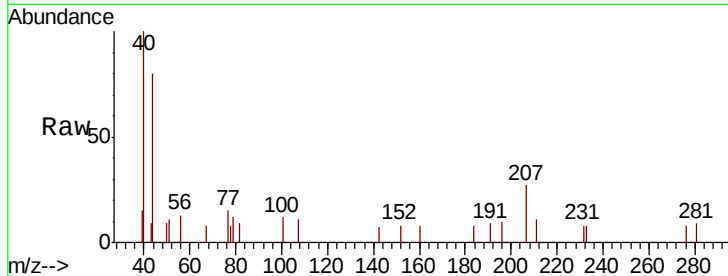


#7

Trichlorofluoromethane
Concen: 15.826 ug/l
RT: 1.78 min Scan# 126
Delta R.T. 0.22 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Instrument :
MSVOA_F
ClientSampleId :
SB-09-1.0-1.5

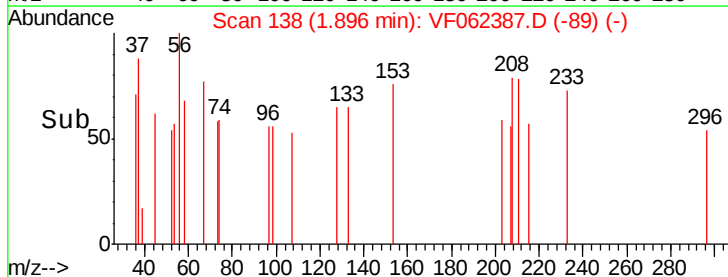
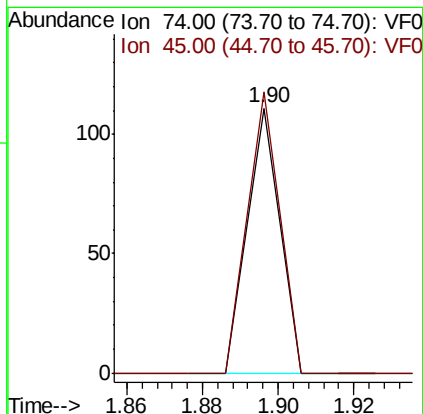
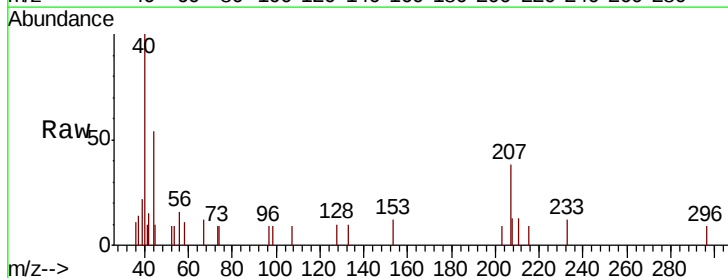
Tot Ion:101 Resp: 97
Ion Ratio Lower Upper
101 100
103 0.0 48.5 72.7#

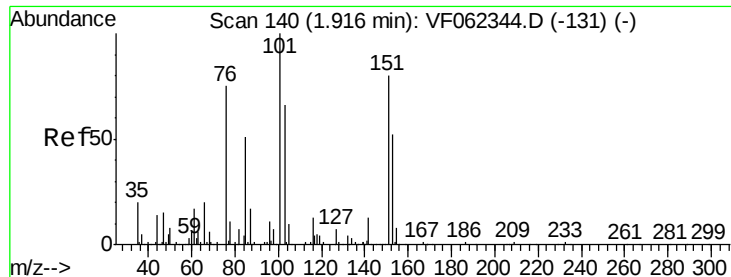


#8

Diethyl Ether
Concen: 71.167 ug/l
RT: 1.90 min Scan# 138
Delta R.T. 0.19 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Tgt Ion: 74 Resp: 66
Ion Ratio Lower Upper
74 100
45 106.1 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 27.721 ug/l

RT: 1.78 min Scan# 126

Delta R.T. -0.14 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

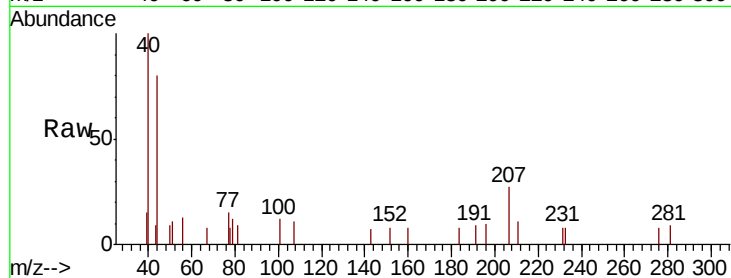
Tot Ion:101 Resp: 97

Ion Ratio Lower Upper

101 100

85 0.0 39.5 59.3#

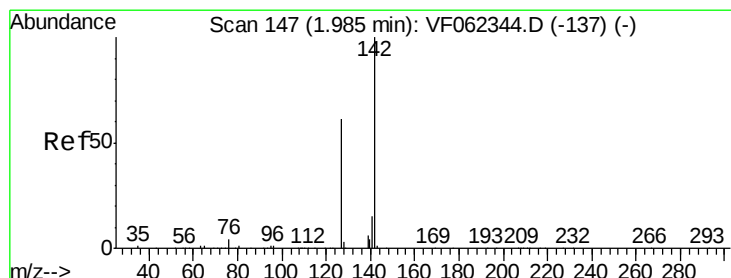
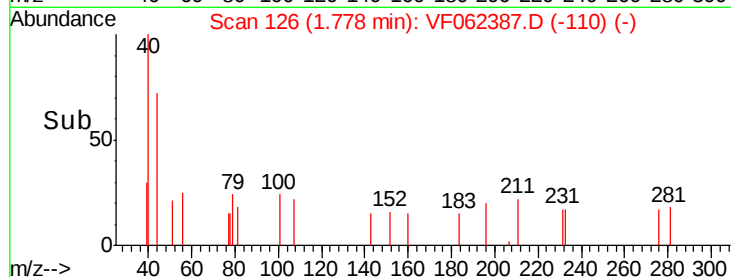
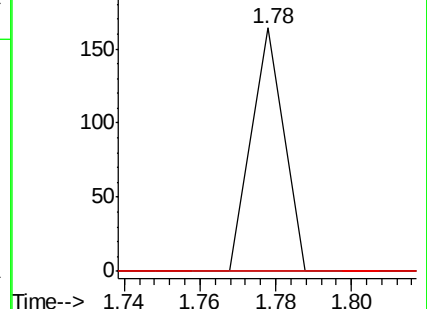
151 0.0 59.9 89.9#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 11.966 ug/l

RT: 1.95 min Scan# 143

Delta R.T. -0.04 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

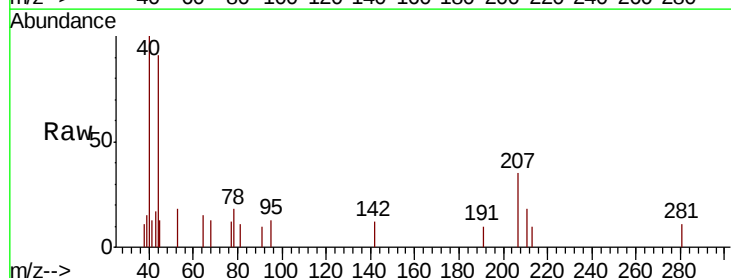
Tgt Ion:142 Resp: 69

Ion Ratio Lower Upper

142 100

127 0.0 48.4 72.6#

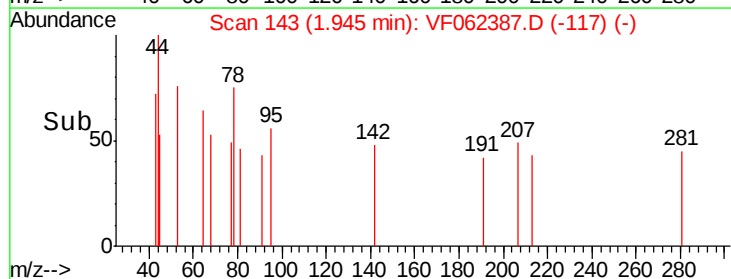
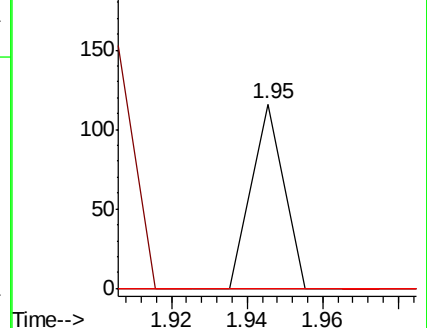
141 0.0 12.2 18.4#

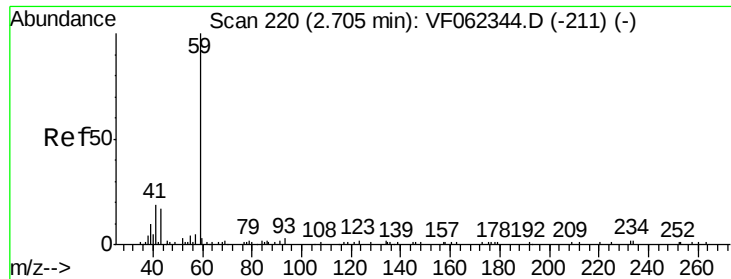


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

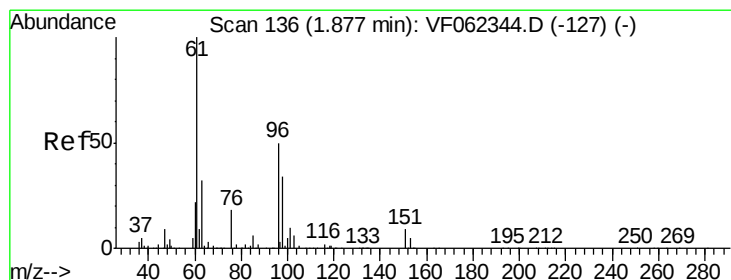
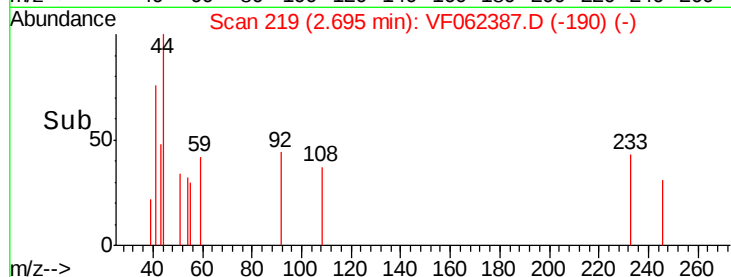
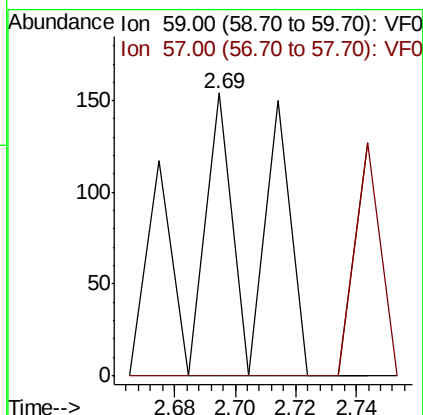
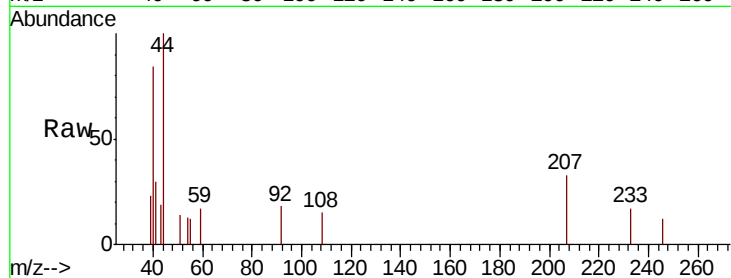




#11
Tert butyl alcohol
Concen: 868.579 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

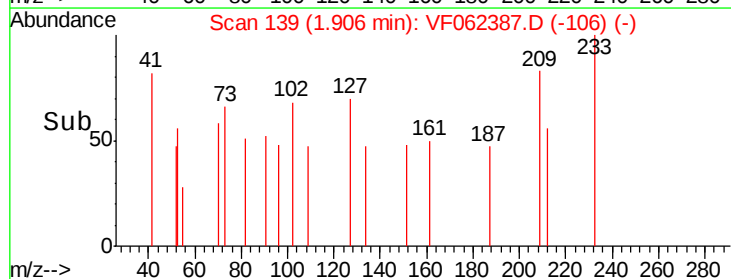
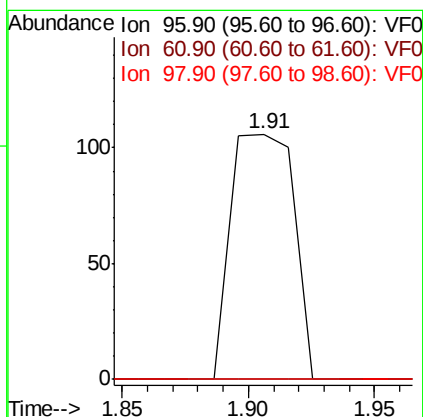
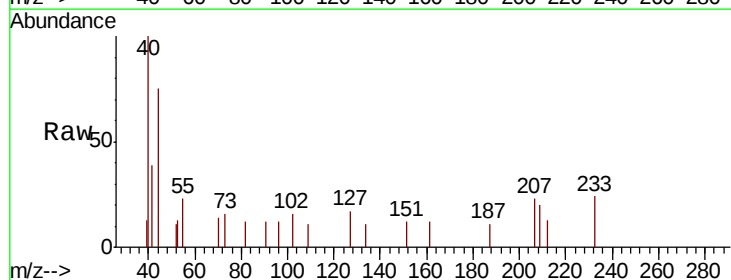
Instrument :
MSVOA_F
ClientSampleId :
SB-09-1.0-1.5

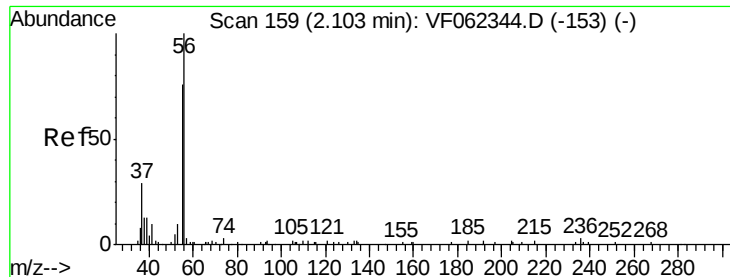
Tot Ion: 59 Resp: 180
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#12
1,1-Dichloroethene
Concen: 61.854 ug/l
RT: 1.91 min Scan# 139
Delta R.T. 0.03 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Tgt Ion: 96 Resp: 184
Ion Ratio Lower Upper
96 100
61 0.0 163.2 244.8#
98 0.0 55.2 82.8#





#13

Acrolein

Concen: 522.649 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampled :

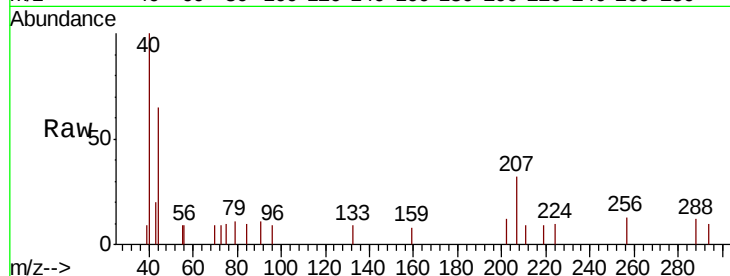
SB-09-1.0-1.5

Tot Ion: 56 Resp: 64

Ion Ratio Lower Upper

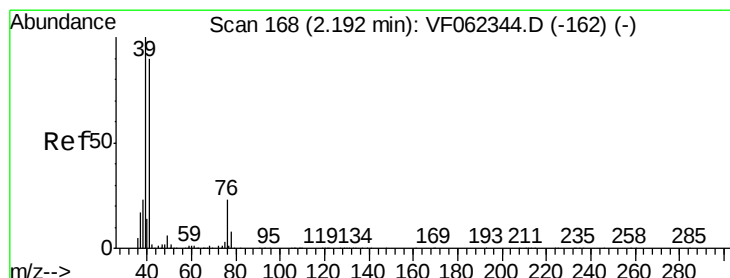
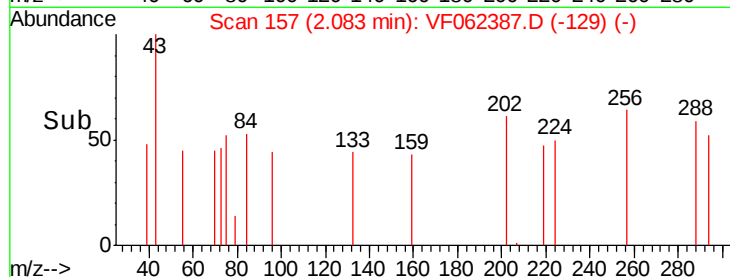
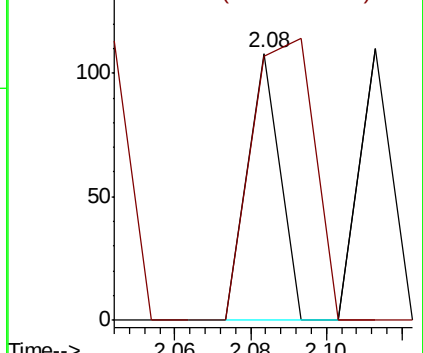
56 100

55 204.7 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 36.152 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

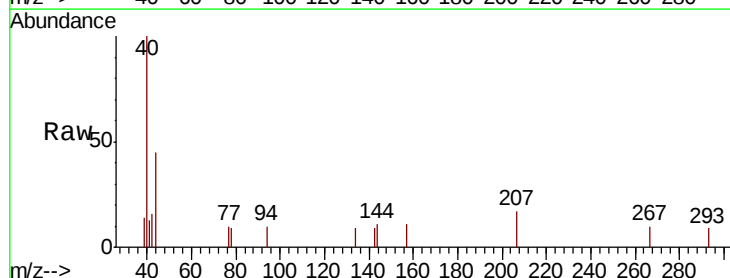
Tgt Ion: 41 Resp: 95

Ion Ratio Lower Upper

41 100

39 0.0 90.8 136.2#

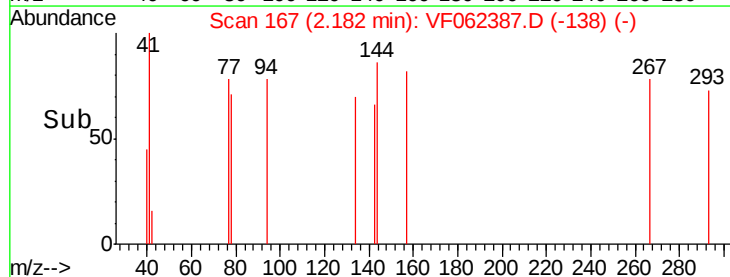
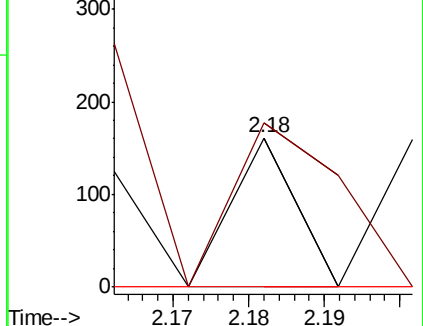
76 0.0 22.2 33.4#

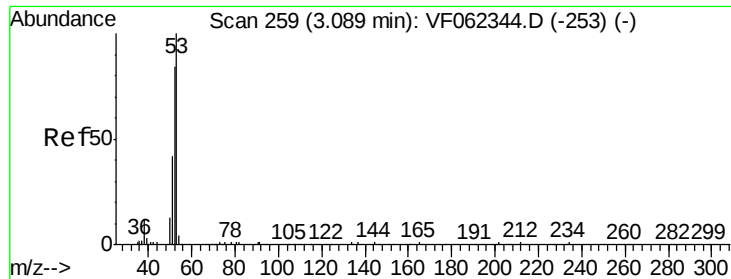


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 75.90 (75.60 to 76.60): VF0

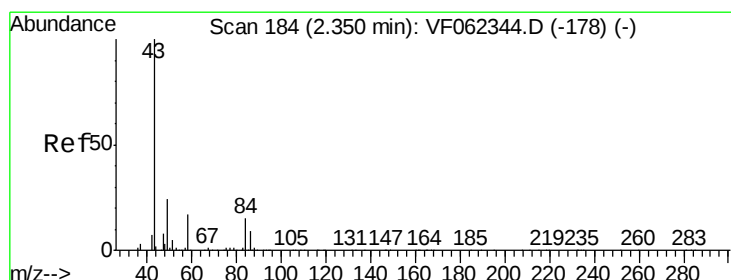
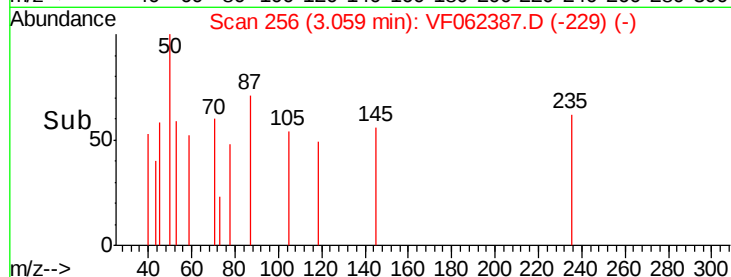
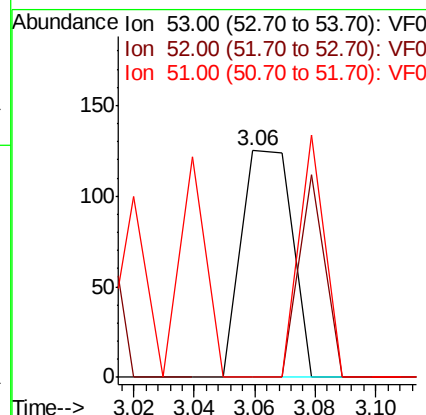
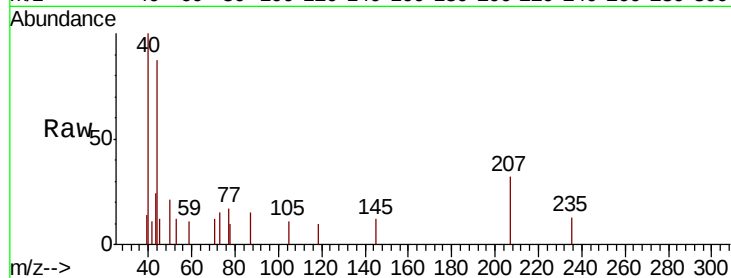




#15
 Acrylonitrile
 Concen: 374.468 ug/l
 RT: 3.06 min Scan# 256
 Delta R.T. -0.03 min
 Lab File: VF062387.D
 Acq: 8 May 2019 19:52

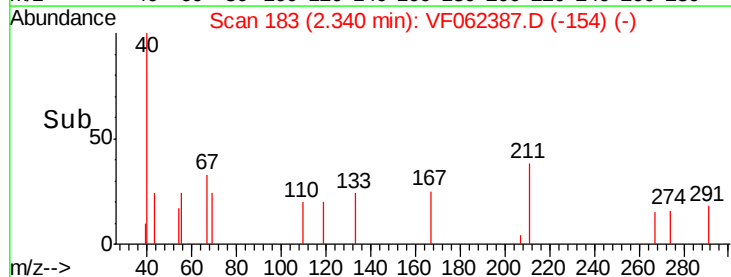
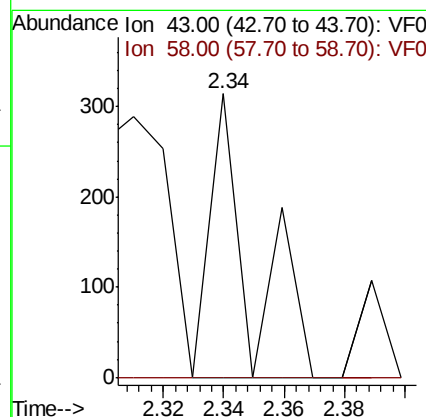
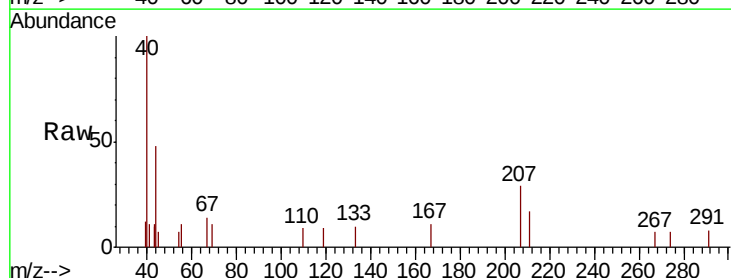
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-09-1.0-1.5

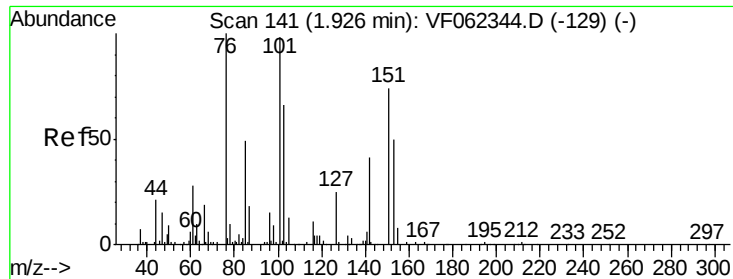
Tot Ion: 53 Resp: 147
 Ion Ratio Lower Upper
 53 100
 52 44.9 77.2 115.8#
 51 53.7 40.6 61.0



#16
 Acetone
 Concen: 400.400 ug/l
 RT: 2.34 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VF062387.D
 Acq: 8 May 2019 19:52

Tgt Ion: 43 Resp: 297
 Ion Ratio Lower Upper
 43 100
 58 0.0 13.1 19.7#

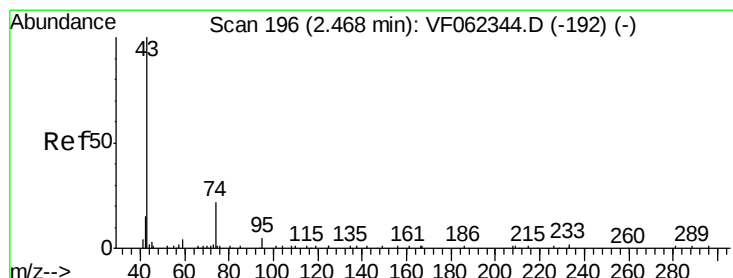
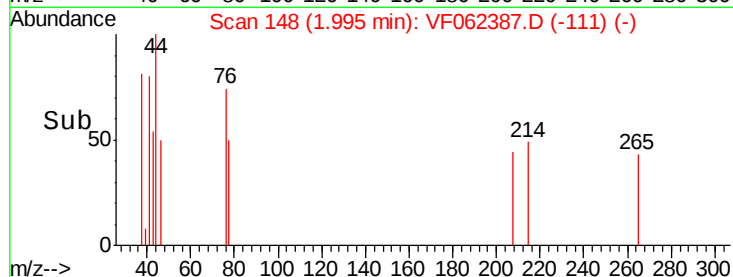
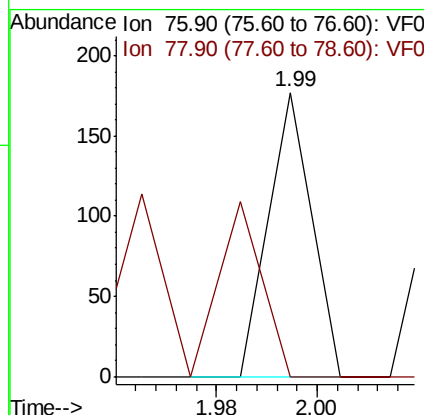
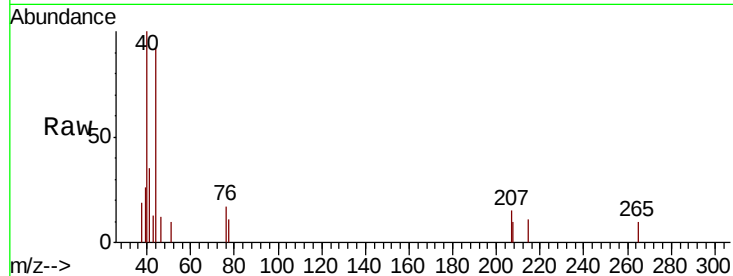




#17
Carbon Disulfide
Concen: 16.188 ug/l
RT: 1.99 min Scan# 148
Delta R.T. 0.07 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

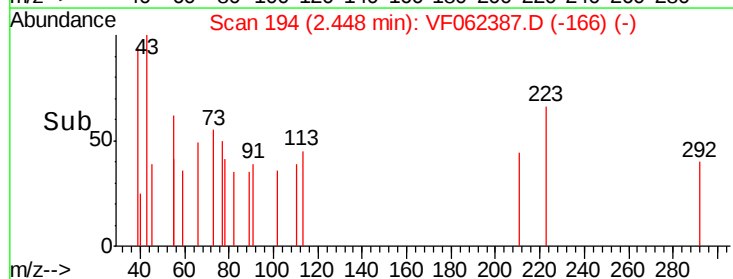
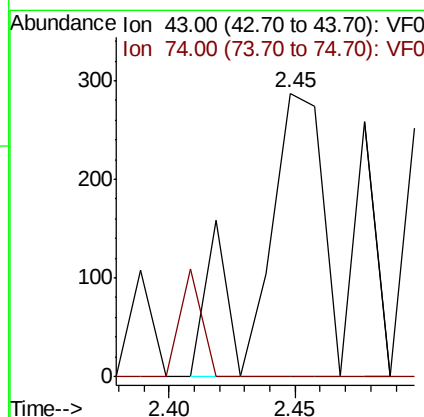
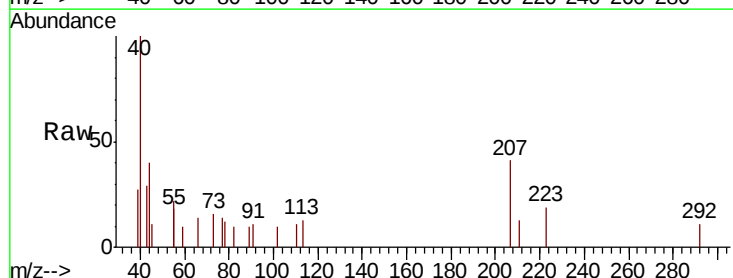
Instrument :
MSVOA_F
ClientSampleId :
SB-09-1.0-1.5

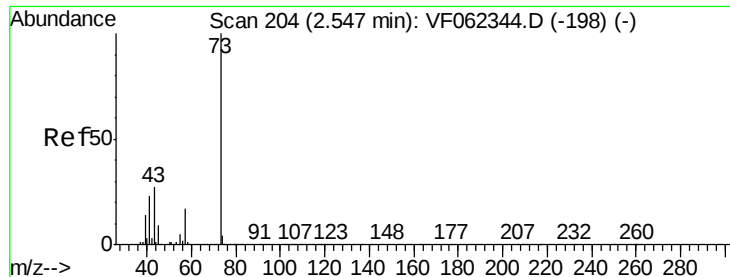
Tot Ion: 76 Resp: 105
Ion Ratio Lower Upper
76 100
78 0.0 9.0 13.4#



#18
Methyl Acetate
Concen: 380.730 ug/l
RT: 2.45 min Scan# 194
Delta R.T. -0.02 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Tgt Ion: 43 Resp: 487
Ion Ratio Lower Upper
43 100
74 0.0 15.0 22.4#



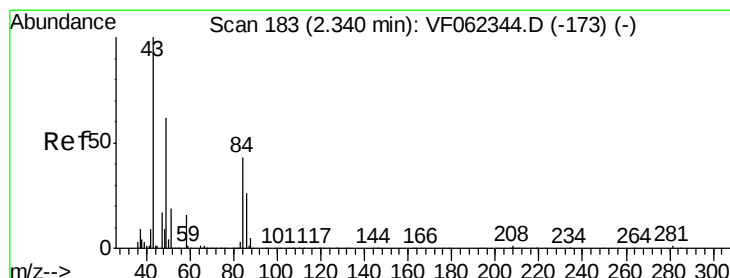
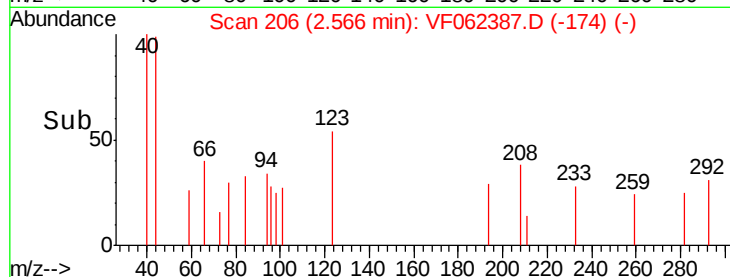
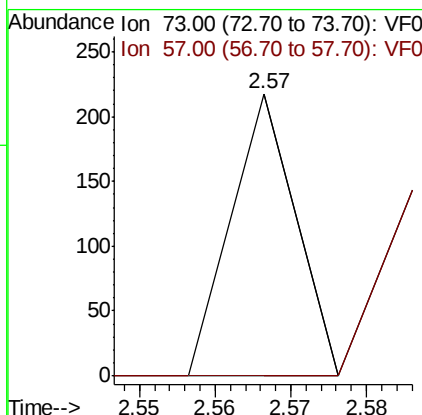
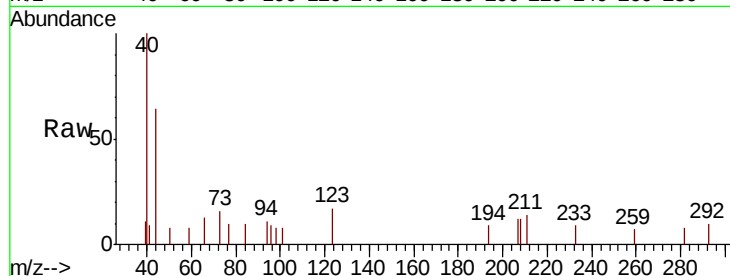


#19

Methyl tert-butyl Ether
 Concen: 21.008 ug/l
 RT: 2.57 min Scan# 206
 Delta R.T. 0.02 min
 Lab File: VF062387.D
 Acq: 8 May 2019 19:52

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-09-1.0-1.5

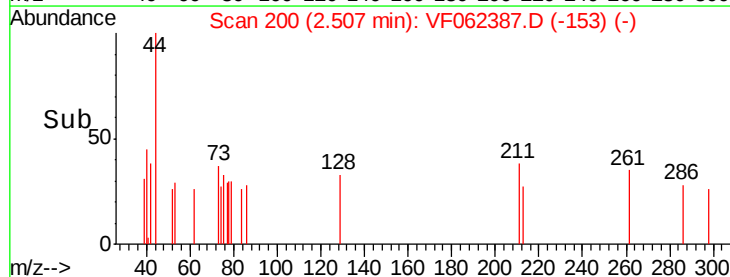
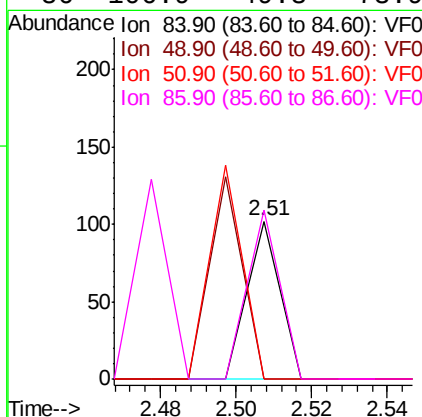
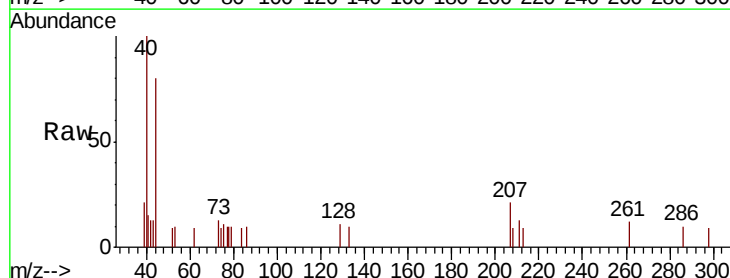
Tot Ion: 73 Resp: 129
 Ion Ratio Lower Upper
 73 100
 57 0.0 13.7 20.5#

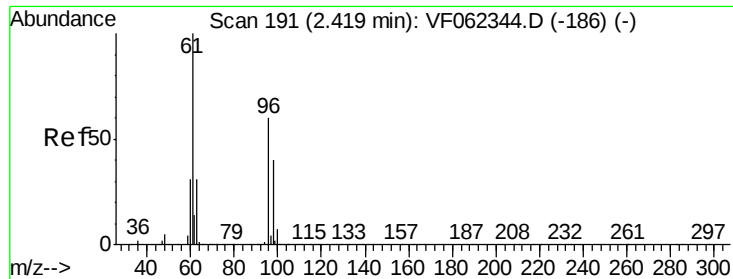


#20

Methylene Chloride
 Concen: 22.357 ug/l
 RT: 2.51 min Scan# 200
 Delta R.T. 0.17 min
 Lab File: VF062387.D
 Acq: 8 May 2019 19:52

Tgt Ion: 84 Resp: 60
 Ion Ratio Lower Upper
 84 100
 49 0.0 117.5 176.3#
 51 0.0 37.0 55.4#
 86 106.9 49.3 73.9#





#21

trans-1,2-Dichloroethene

Concen: 71.625 ug/l

RT: 2.37 min Scan# 186

Delta R.T. -0.05 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

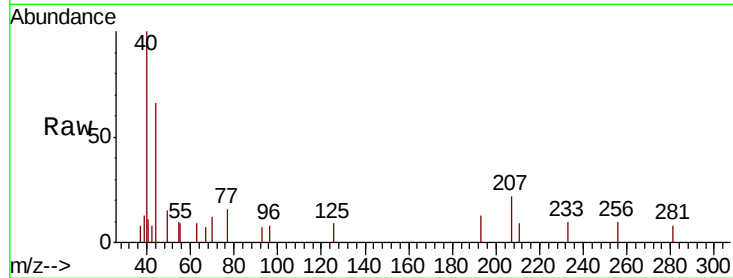
Tot Ion: 96 Resp: 203

Ion Ratio Lower Upper

96 100

61 0.0 133.2 199.8#

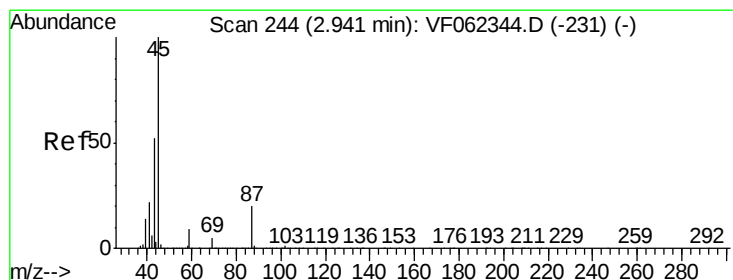
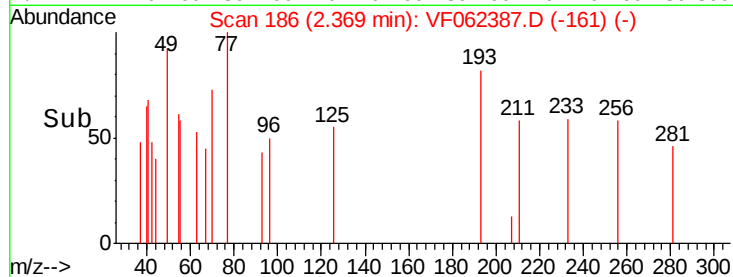
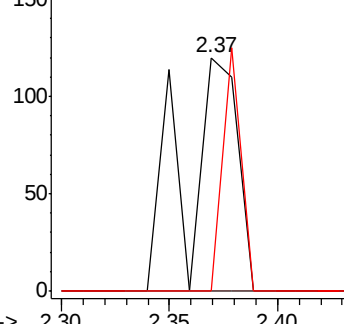
98 0.0 53.1 79.7#



Abundance Ion 95.90 (95.60 to 96.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



#22

Diisopropyl ether

Concen: 14.002 ug/l

RT: 2.92 min Scan# 242

Delta R.T. -0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Tgt Ion: 45 Resp: 115

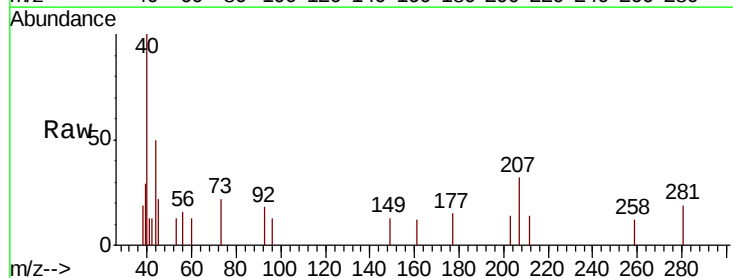
Ion Ratio Lower Upper

45 100

43 0.0 41.4 62.0#

87 0.0 15.8 23.6#

59 0.0 7.2 10.8#

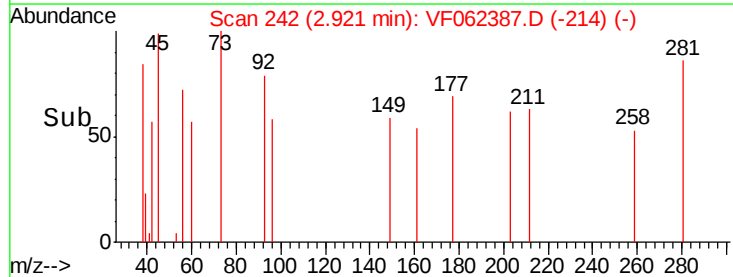
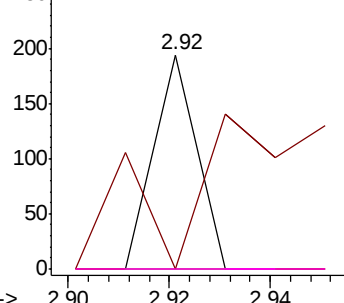


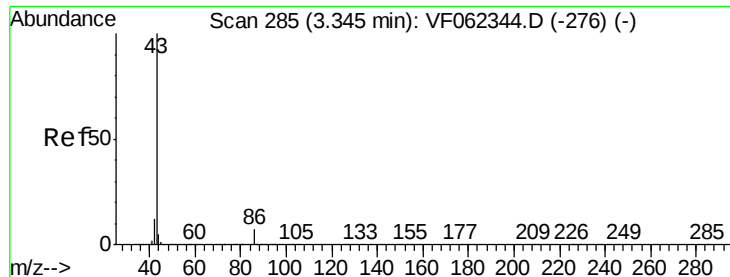
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 52.180 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.01 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

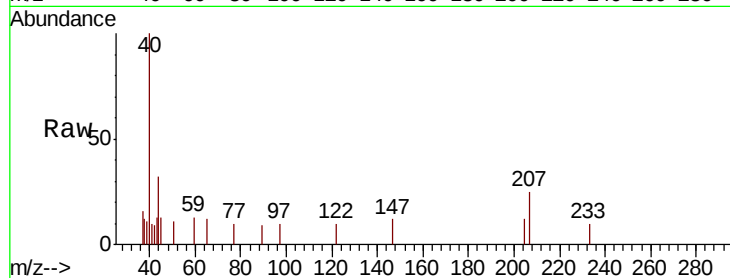
SB-09-1.0-1.5

Tot Ion: 43 Resp: 191

Ion Ratio Lower Upper

43 100

86 0.0 5.7 8.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

250

200

150

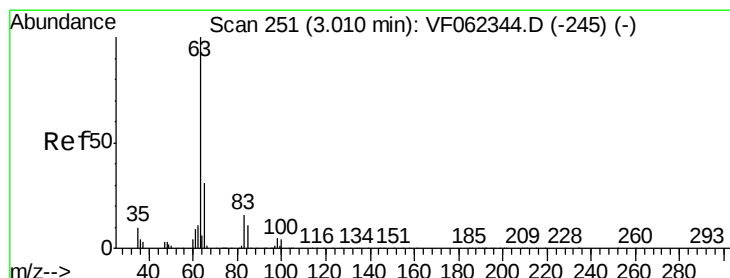
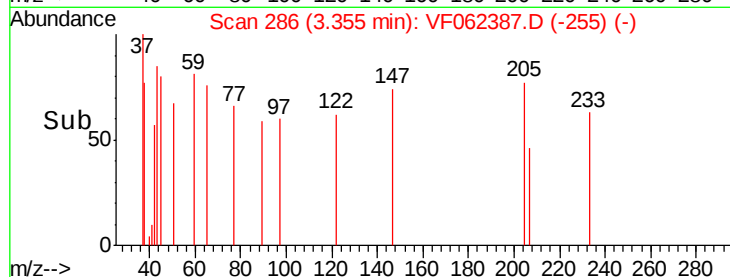
100

50

0

3.32 3.34 3.36 3.38

Time-->



#24

1,1-Dichloroethane

Concen: 13.901 ug/l

RT: 3.05 min Scan# 255

Delta R.T. 0.04 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

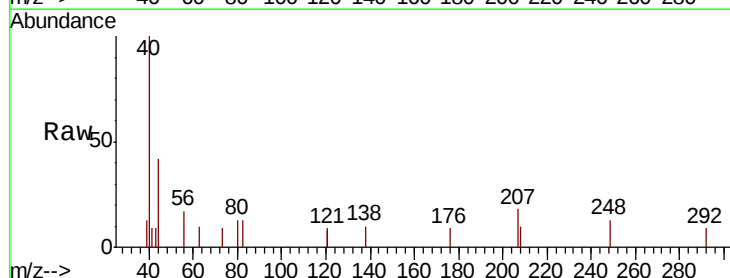
Tgt Ion: 63 Resp: 69

Ion Ratio Lower Upper

63 100

98 0.0 2.6 8.0#

100 0.0 1.8 5.4#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0

150

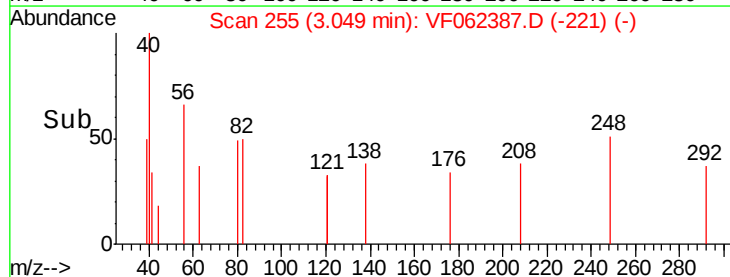
100

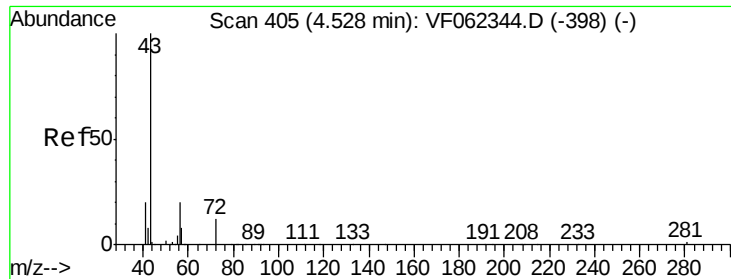
50

0

3.02 3.04 3.06 3.08

Time-->





#25

2-Butanone

Concen: 186.717 ug/l

RT: 4.56 min Scan# 408

Delta R.T. 0.03 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

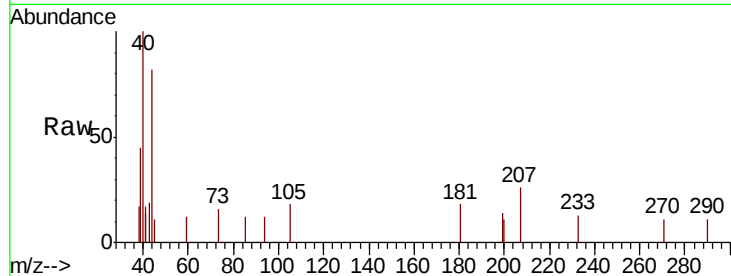
SB-09-1.0-1.5

Tot Ion: 43 Resp: 174

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.56

150

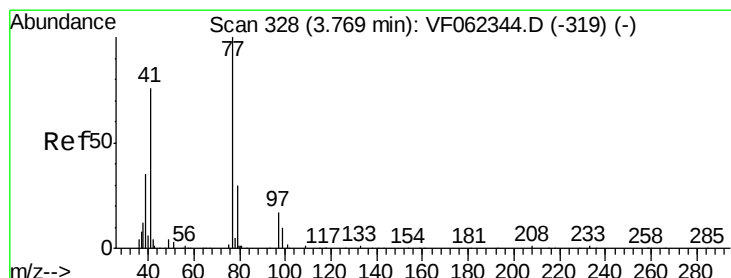
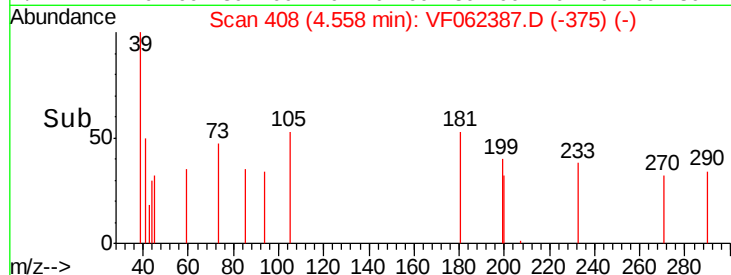
100

50

0

4.52 4.54 4.56 4.58 4.60

Time-->



#26

2,2-Dichloropropane

Concen: 160.176 ug/l

RT: 3.80 min Scan# 331

Delta R.T. 0.03 min

Lab File: VF062387.D

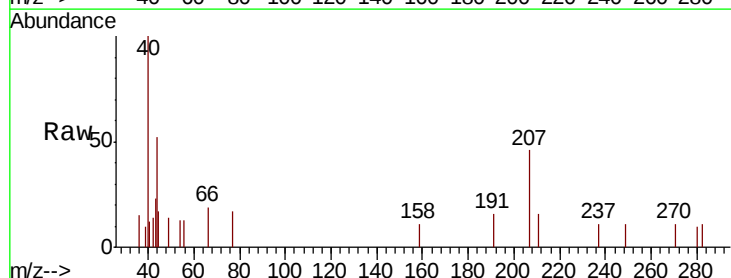
Acq: 8 May 2019 19:52

Tgt Ion: 77 Resp: 444

Ion Ratio Lower Upper

77 100

97 13.7 9.5 28.5



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0

3.80

150

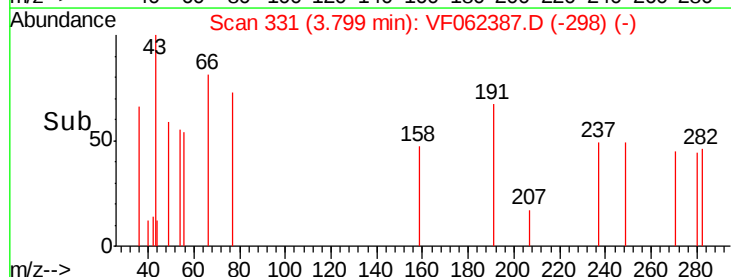
100

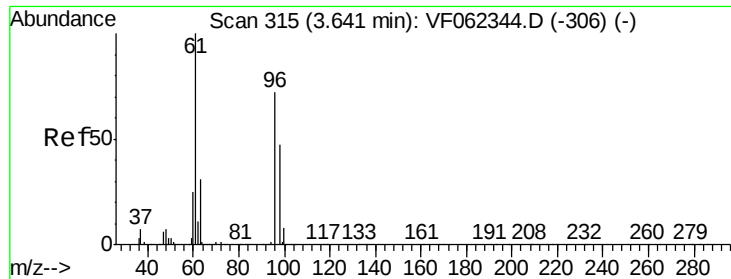
50

0

3.75 3.80 3.85

Time-->



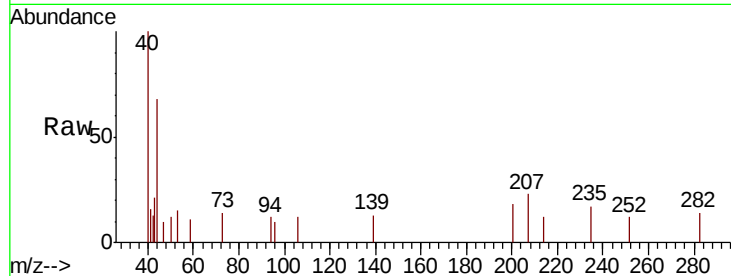


#27

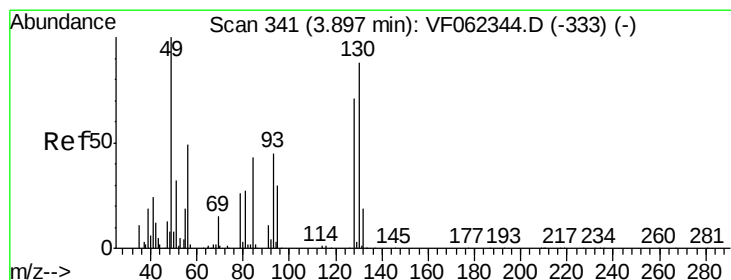
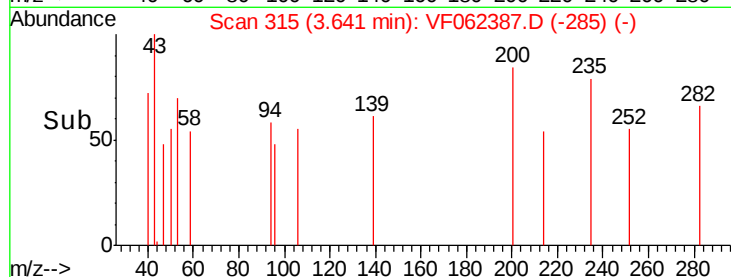
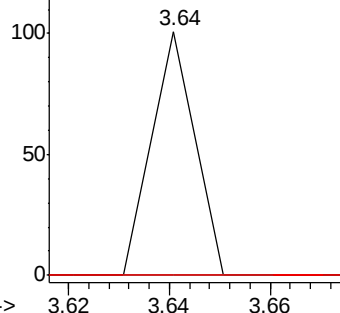
cis-1,2-Dichloroethene
 Concen: 16.936 ug/l
 RT: 3.64 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VF062387.D
 Acq: 8 May 2019 19:52

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-09-1.0-1.5

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	263.0
98	0.0	0.0	130.8



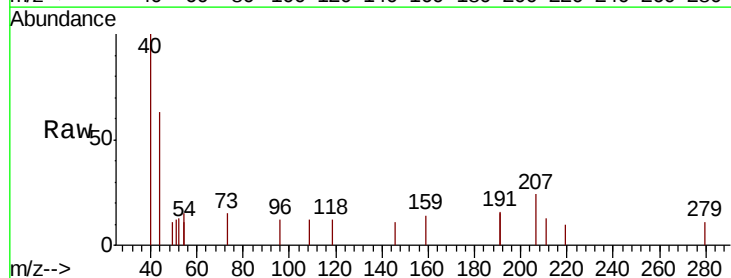
Abundance Ion 95.90 (95.60 to 96.60): VF0
 Ion 60.90 (60.60 to 61.60): VF0
 Ion 97.90 (97.60 to 98.60): VF0



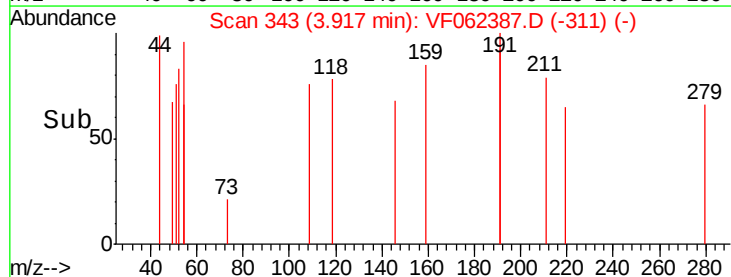
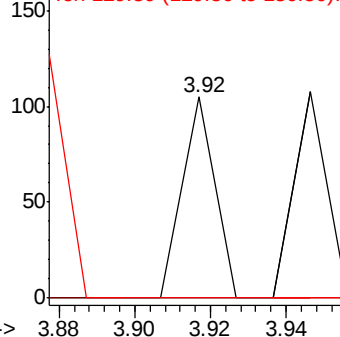
#28

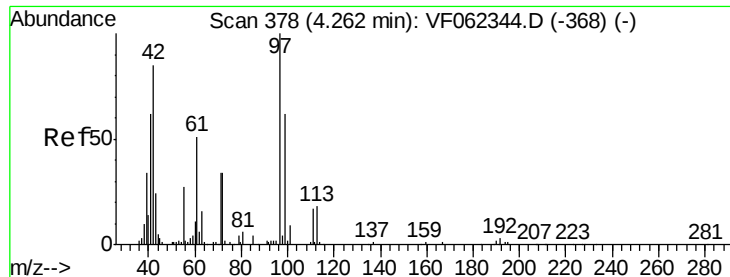
Bromochloromethane
 Concen: 27.542 ug/l
 RT: 3.92 min Scan# 343
 Delta R.T. 0.02 min
 Lab File: VF062387.D
 Acq: 8 May 2019 19:52

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	2.2
130	0.0	79.4	119.0#



Abundance Ion 48.90 (48.60 to 49.60): VF0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 765.830 ug/l

RT: 4.22 min Scan# 374

Delta R.T. -0.04 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

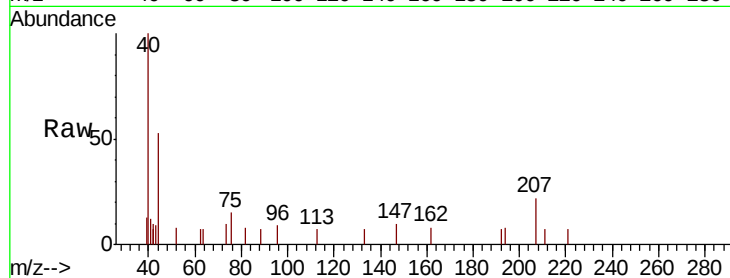
Tot Ion: 42 Resp: 328

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

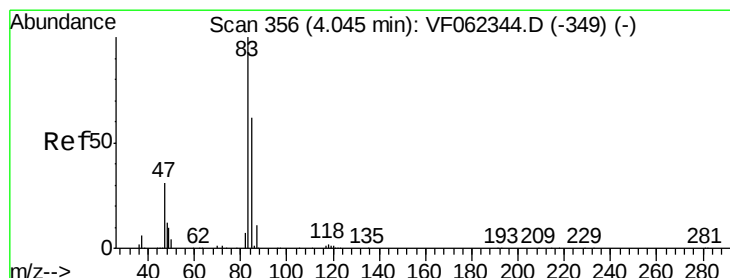
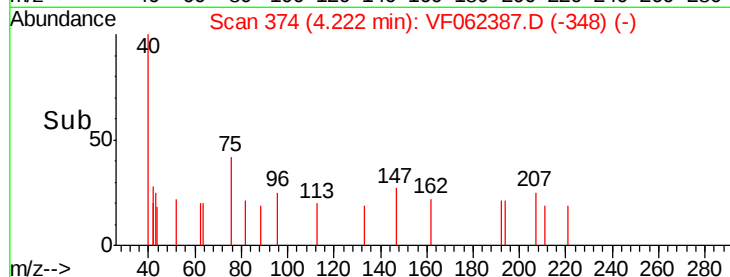
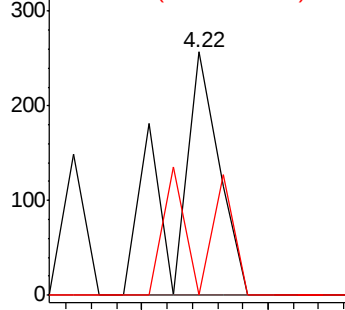
71 47.6 31.7 47.5#



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



#30

Chloroform

Concen: 11.333 ug/l

RT: 3.98 min Scan# 349

Delta R.T. -0.07 min

Lab File: VF062387.D

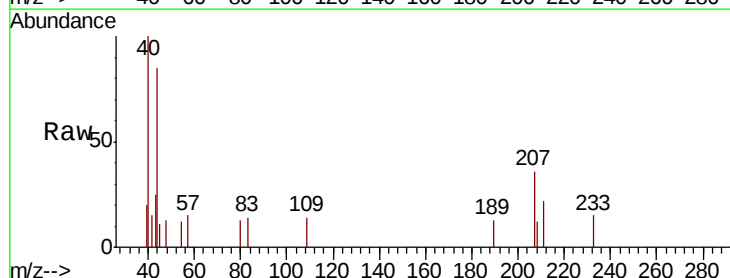
Acq: 8 May 2019 19:52

Tgt Ion: 83 Resp: 76

Ion Ratio Lower Upper

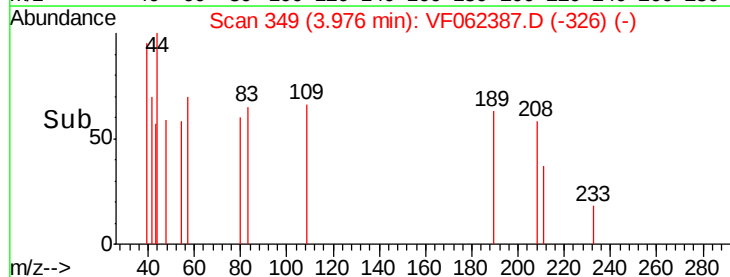
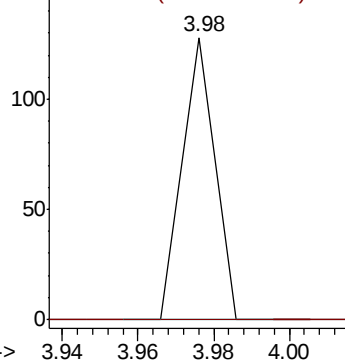
83 100

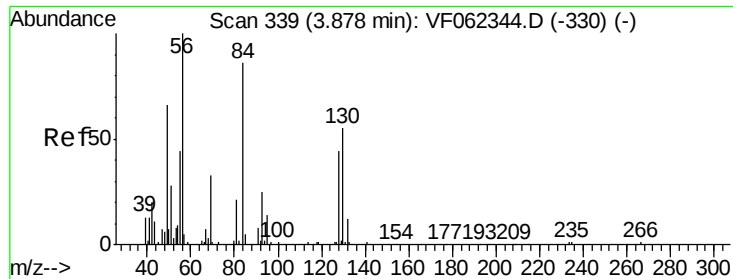
85 0.0 49.6 74.4#



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

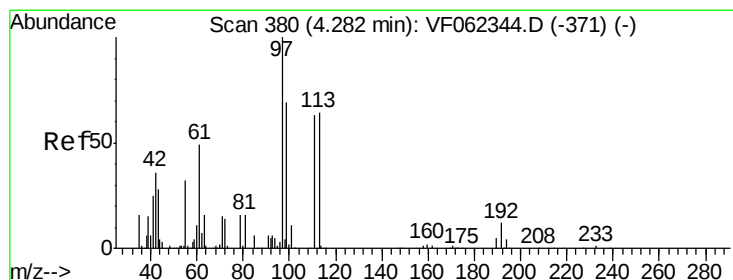
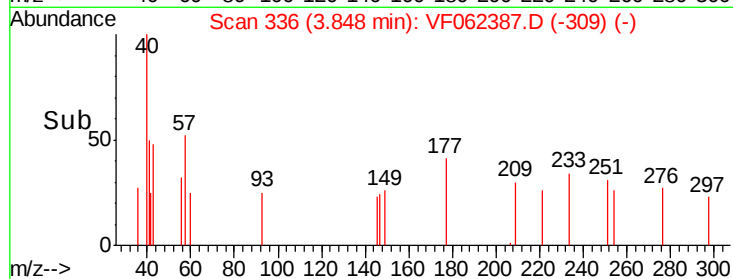
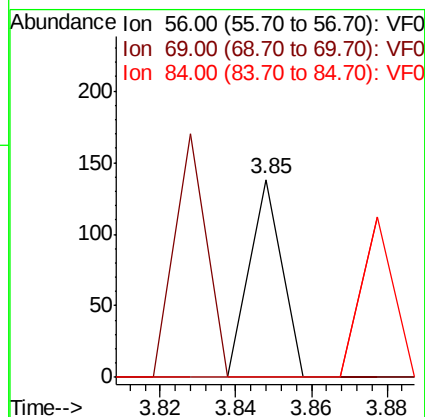
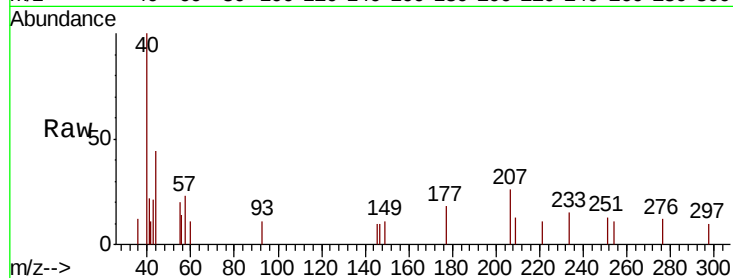




#31
Cvclohexane
Concen: 20.697 ug/l
RT: 3.85 min Scan# 336
Delta R.T. -0.03 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

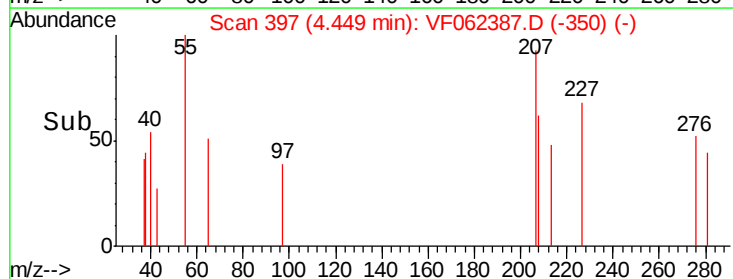
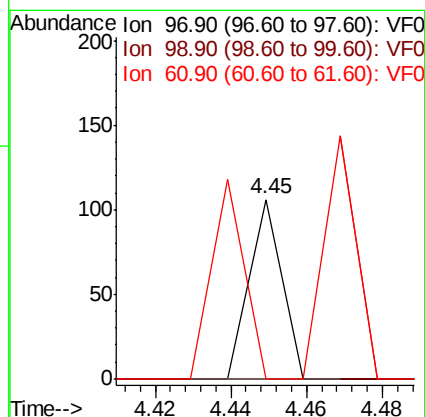
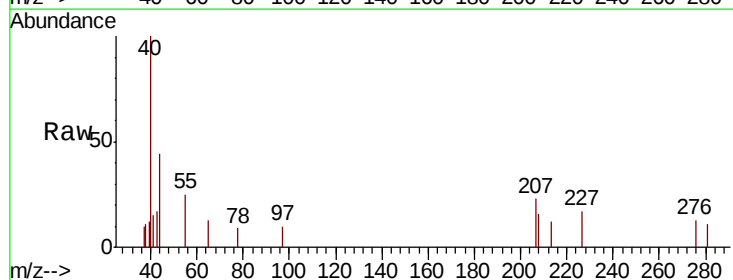
Instrument :
MSVOA_F
ClientSampleId :
SB-09-1.0-1.5

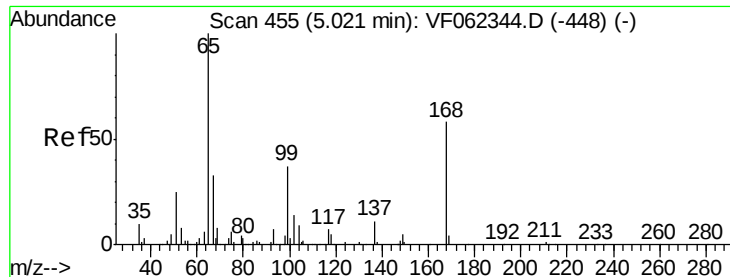
Tot Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
69 0.0 26.4 39.6#
84 0.0 69.0 103.6#



#32
1,1,1-Trichloroethane
Concen: 10.961 ug/l
RT: 4.45 min Scan# 397
Delta R.T. 0.17 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Tgt Ion: 97 Resp: 63
Ion Ratio Lower Upper
97 100
99 0.0 52.6 78.8#
61 111.1 39.4 59.0#





#33

1,2-Dichloroethane-d4

Concen: 21.545 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

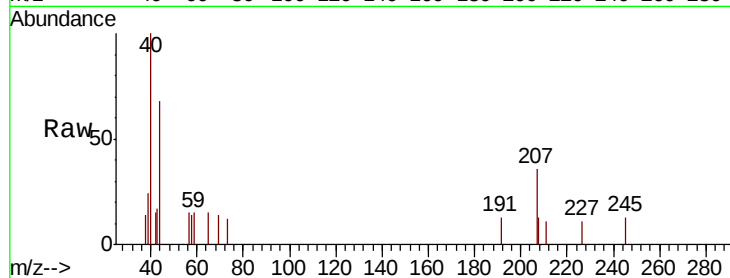
SB-09-1.0-1.5

Tot Ion: 65 Resp: 79

Ion Ratio Lower Upper

65 100

67 0.0 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.03

150

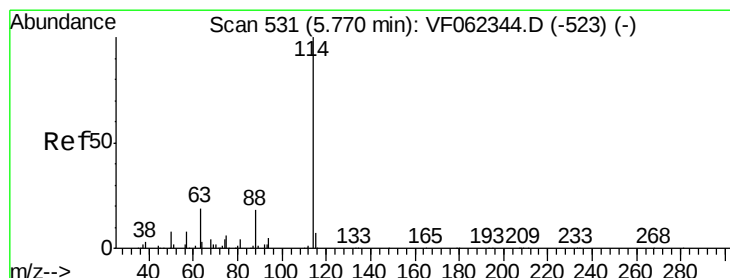
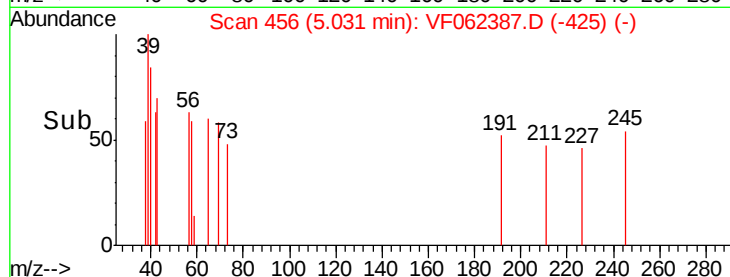
100

50

0

5.00 5.02 5.04 5.06

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.01 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

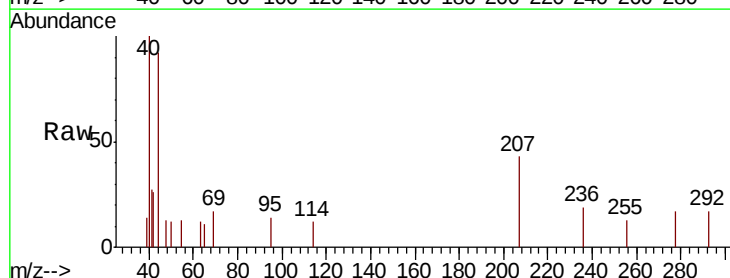
Tgt Ion: 114 Resp: 132

Ion Ratio Lower Upper

114 100

63 95.6 0.0 37.4#

88 0.0 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

200

150

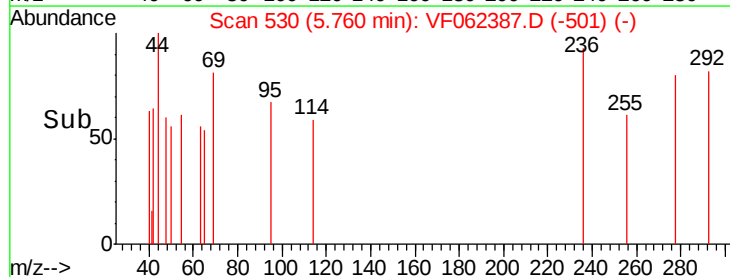
100

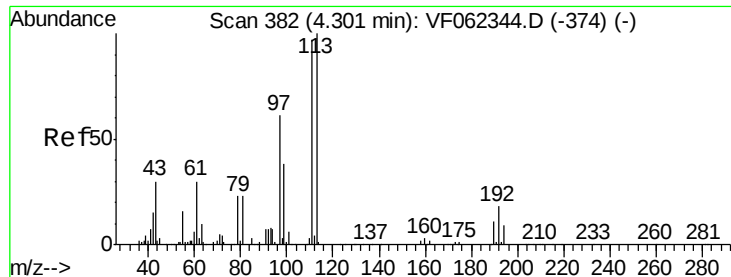
50

0

5.75 5.76 5.77 5.78

Time-->





#35

Dibromofluoromethane

Concen: 192.084 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

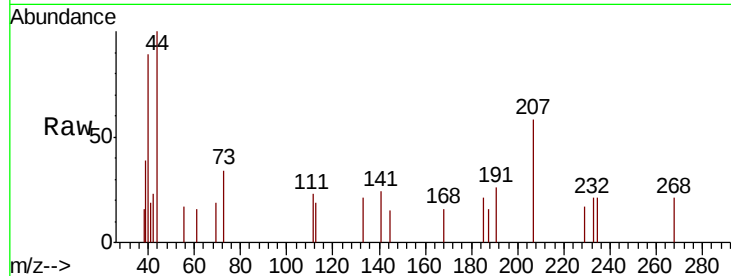
Tot Ion:113 Resp: 202

Ion Ratio Lower Upper

113 100

111 45.5 79.4 119.0#

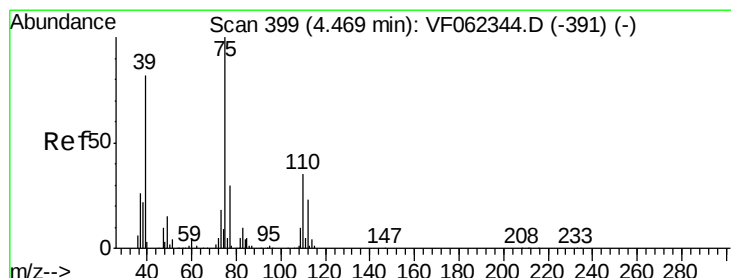
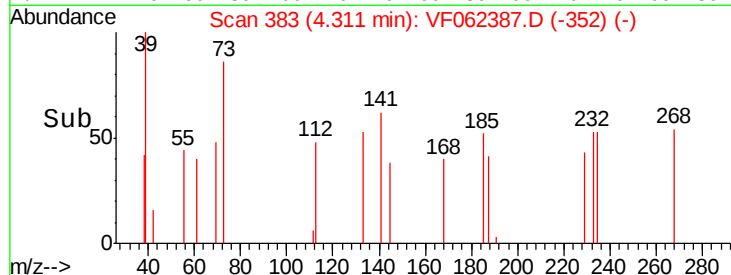
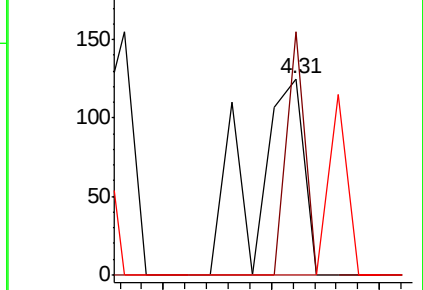
192 33.7 16.0 24.0#



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 104.063 ug/l

RT: 4.44 min Scan# 396

Delta R.T. -0.03 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

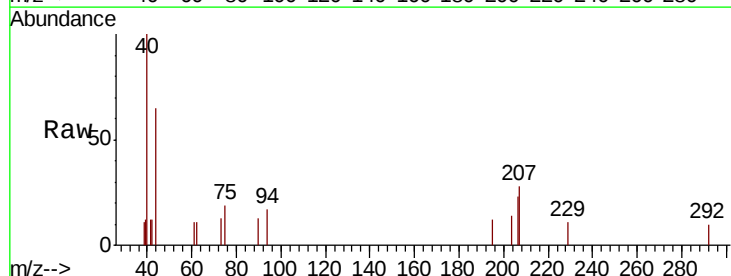
Tgt Ion: 75 Resp: 118

Ion Ratio Lower Upper

75 100

110 0.0 17.2 51.5#

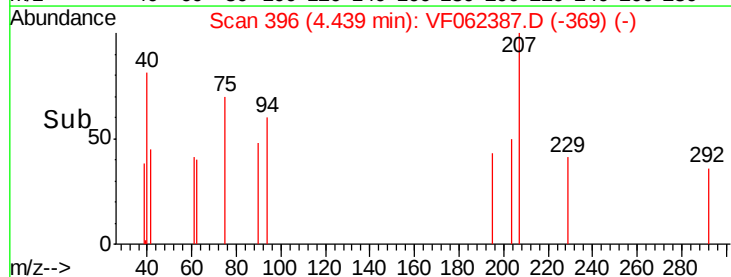
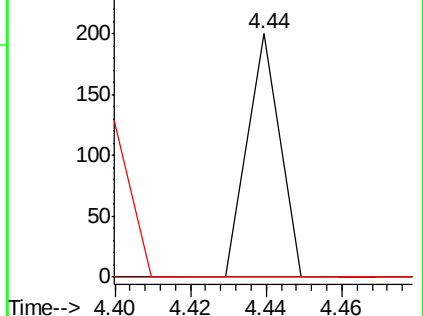
77 0.0 25.2 37.8#

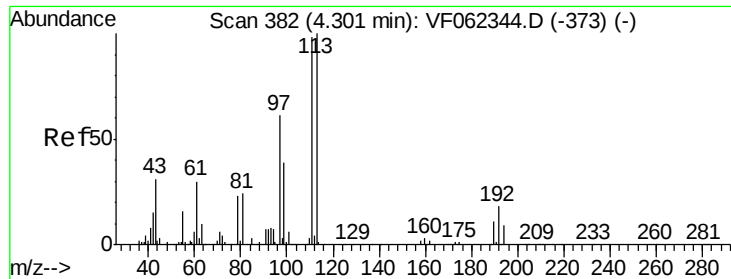


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VF0

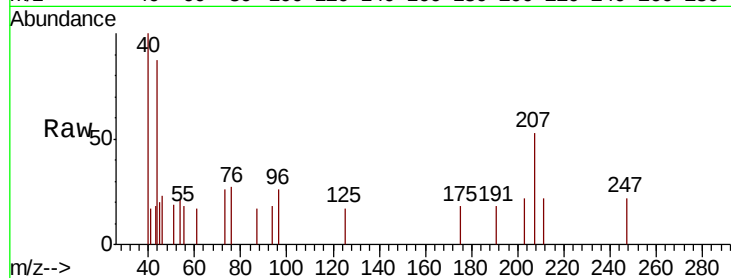




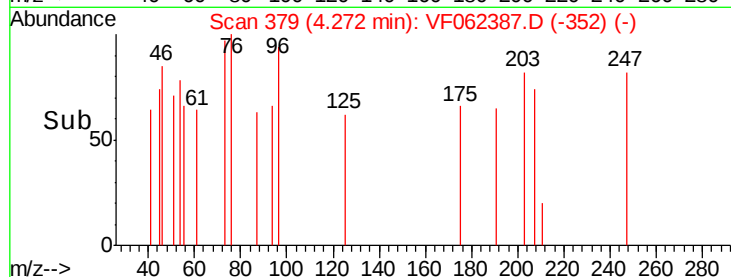
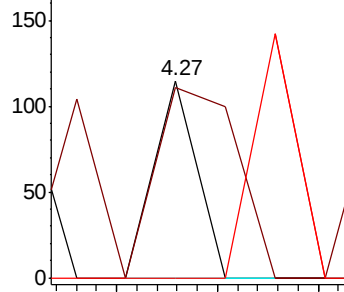
#37
Ethyl Acetate
Concen: 166.251 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.03 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Instrument :
MSVOA_F
ClientSampleId :
SB-09-1.0-1.5

Tot Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
61 273.5 0.0 0.0#
70 0.0 8.2 12.2#

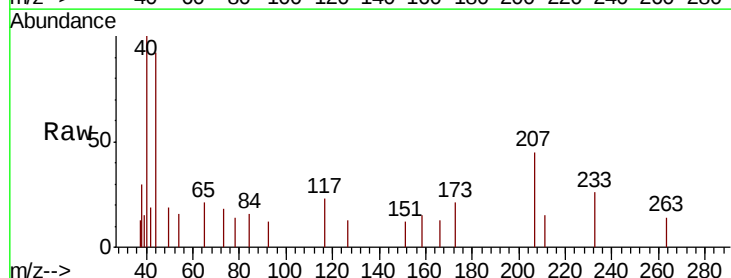
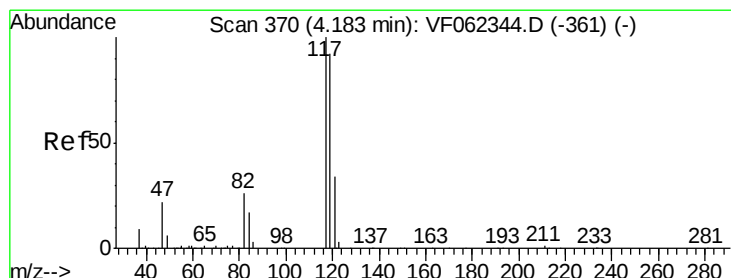


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0

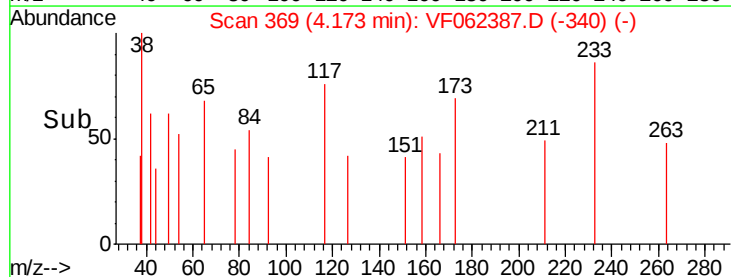
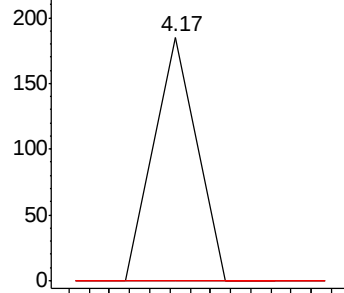


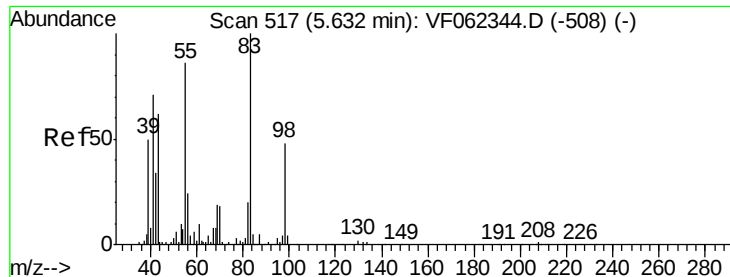
#38
Carbon Tetrachloride
Concen: 95.187 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Tgt Ion: 117 Resp: 109
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 52.760 ug/l

RT: 5.65 min Scan# 519

Delta R.T. 0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

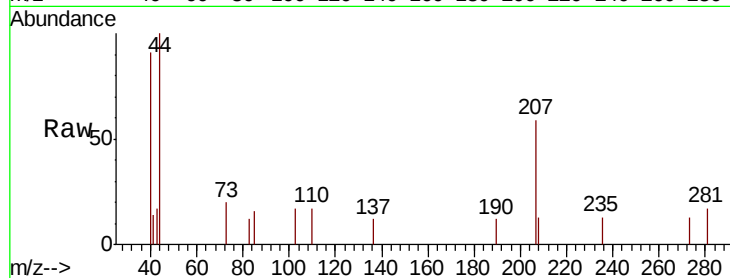
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

55 0.0 69.0 103.6#

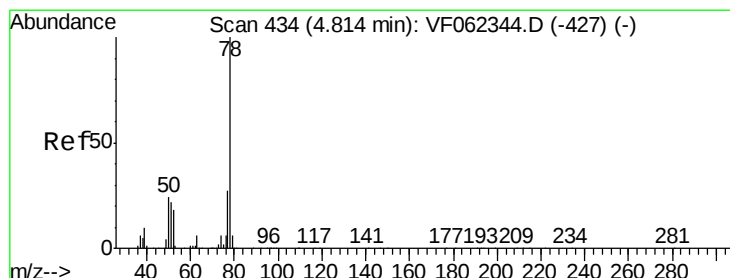
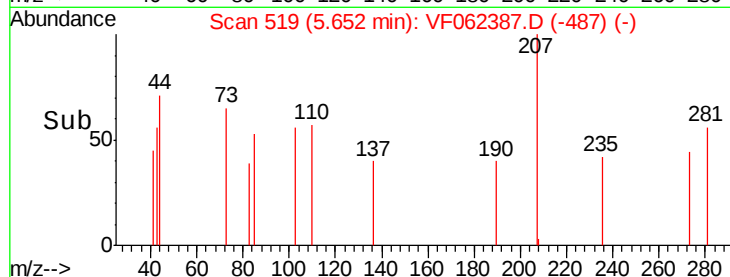
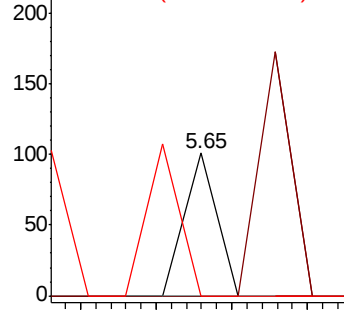
98 0.0 38.6 58.0#



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: 26.031 ug/l

RT: 4.80 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062387.D

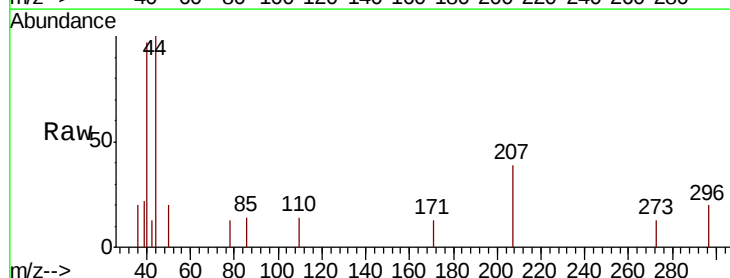
Acq: 8 May 2019 19:52

Tgt Ion: 78 Resp: 65

Ion Ratio Lower Upper

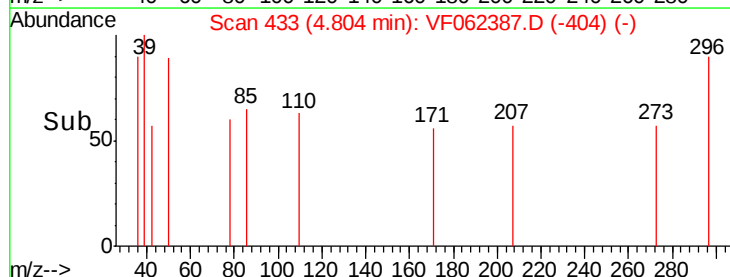
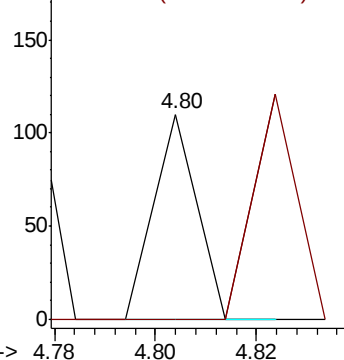
78 100

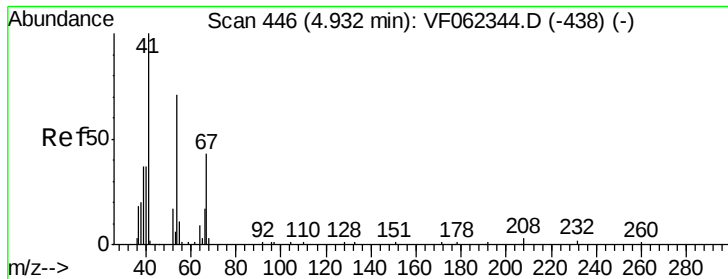
77 0.0 21.6 32.4#



Abundance Ion 78.00 (77.70 to 78.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 794.429 ug/l

RT: 4.88 min Scan# 441

Delta R.T. -0.05 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

Tot Ion: 41 Resp: 216

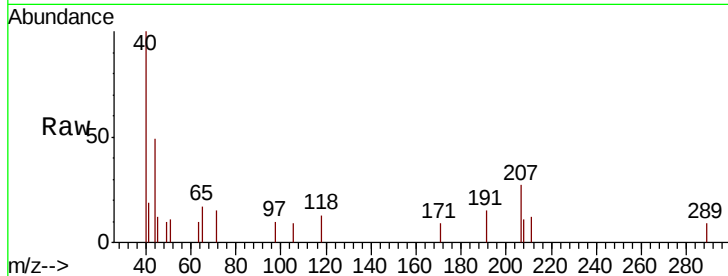
Ion Ratio Lower Upper

41 100

39 75.9 54.3 81.5

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

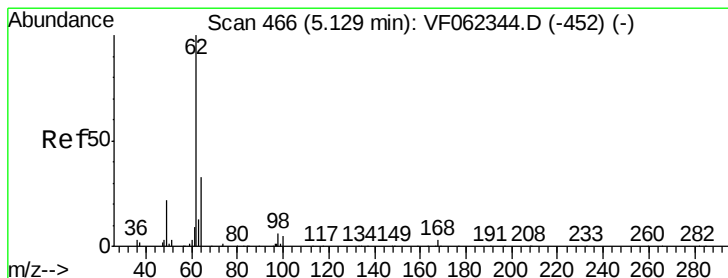
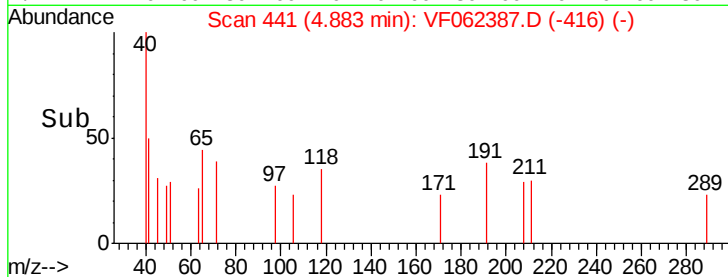
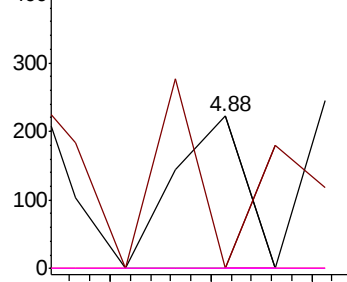


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 64.156 ug/l

RT: 5.11 min Scan# 464

Delta R.T. -0.02 min

Lab File: VF062387.D

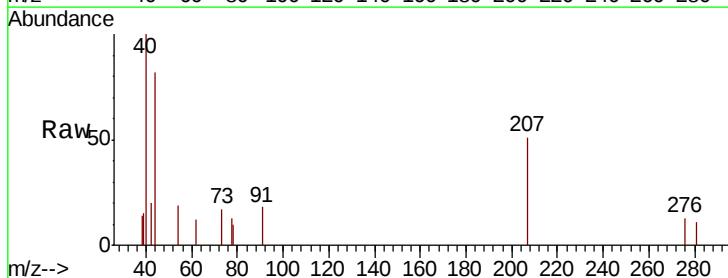
Acq: 8 May 2019 19:52

Tgt Ion: 62 Resp: 67

Ion Ratio Lower Upper

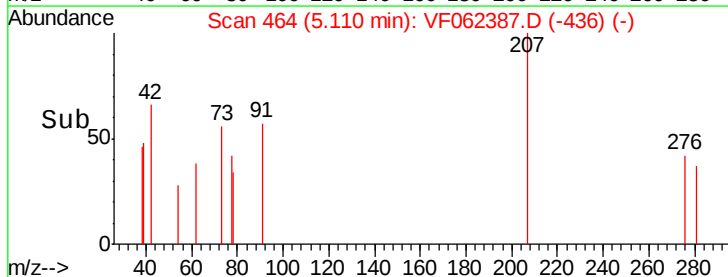
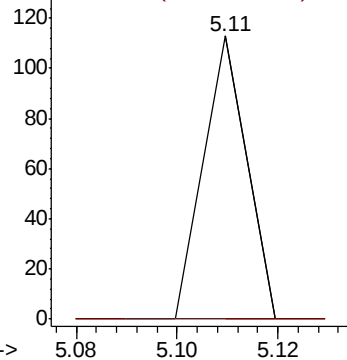
62 100

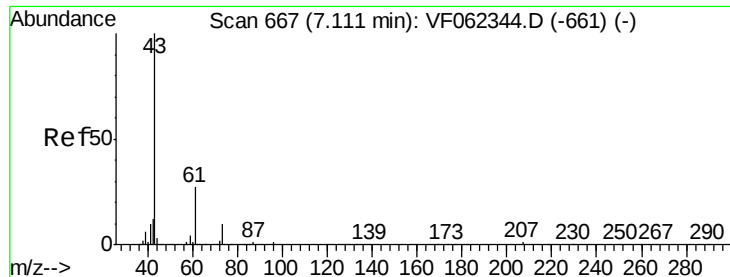
98 0.0 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0





#43

Isopropyl Acetate

Concen: 209.397 ug/l

RT: 7.09 min Scan# 665

Delta R.T. -0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleID :

SB-09-1.0-1.5

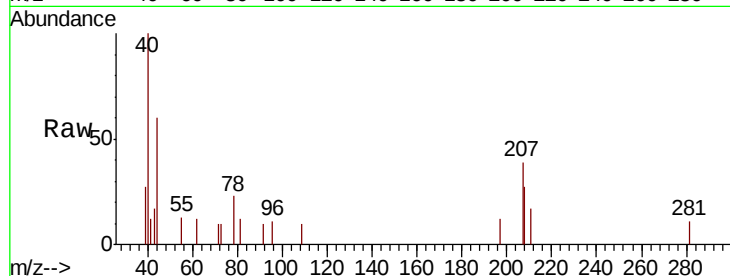
Tot Ion: 43 Resp: 108

Ion Ratio Lower Upper

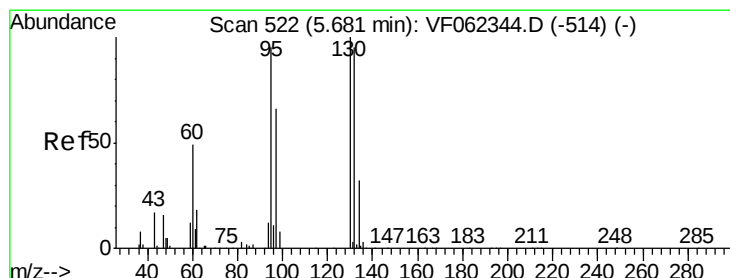
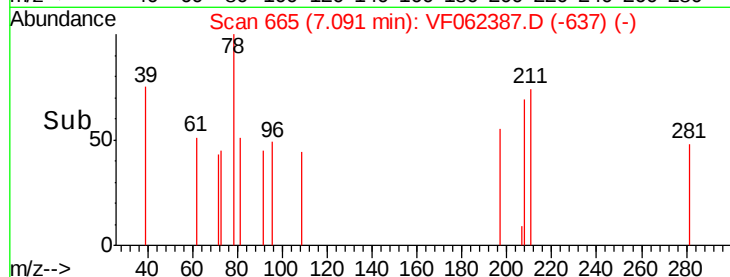
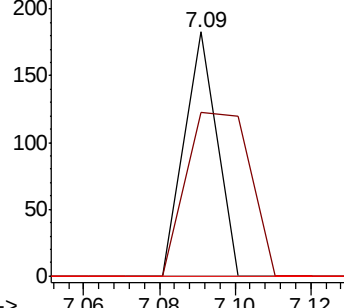
43 100

61 133.3 22.8 34.2#

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



#44

Trichloroethene

Concen: 70.863 ug/l

RT: 5.71 min Scan# 525

Delta R.T. 0.03 min

Lab File: VF062387.D

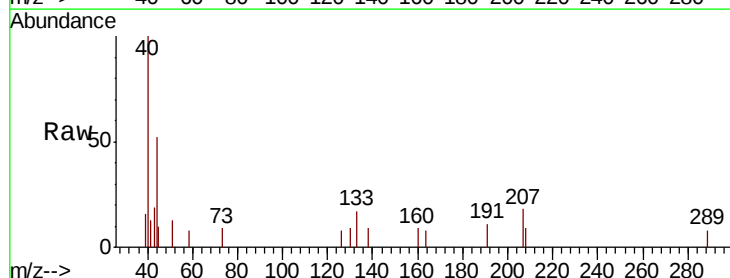
Acq: 8 May 2019 19:52

Tgt Ion: 130 Resp: 65

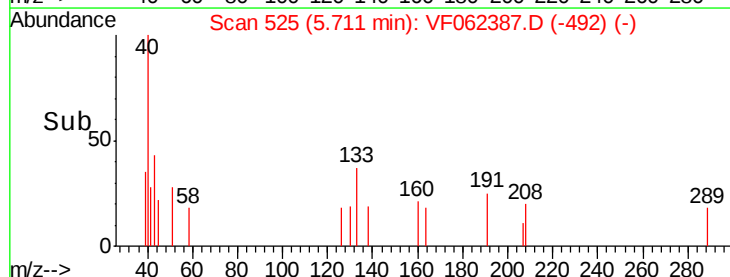
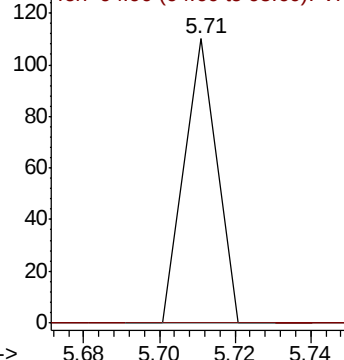
Ion Ratio Lower Upper

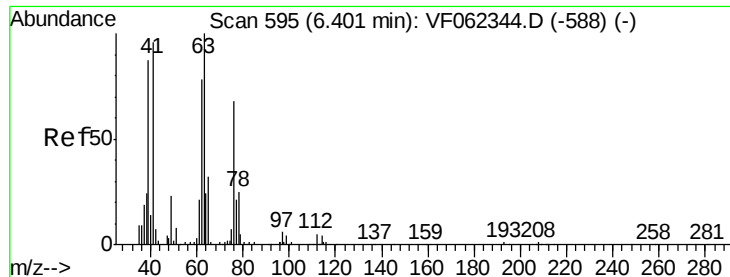
130 100

95 0.0 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 150.290 ug/l

RT: 6.34 min Scan# 589

Delta R.T. -0.06 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

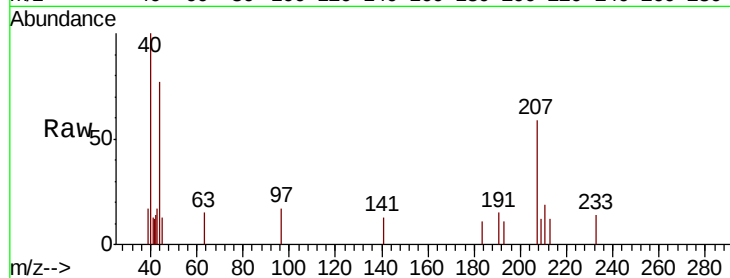
SB-09-1.0-1.5

Tot Ion: 63 Resp: 85

Ion Ratio Lower Upper

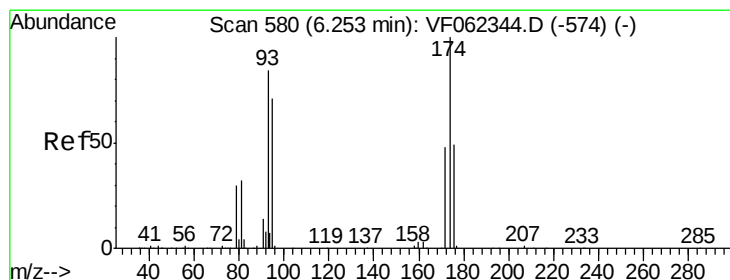
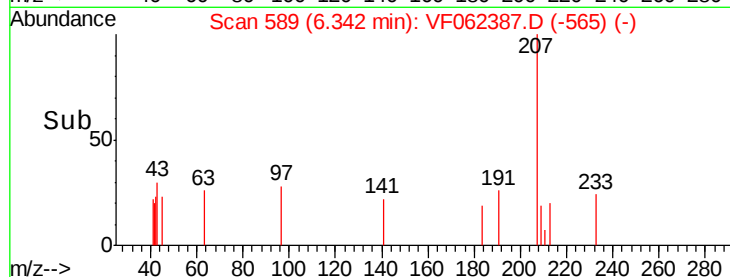
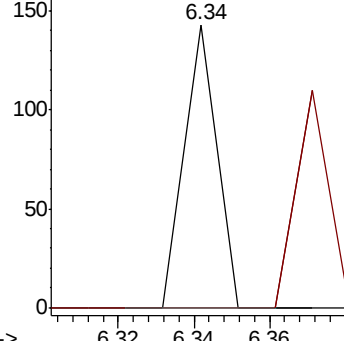
63 100

65 0.0 25.6 38.4#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0



#46

Dibromomethane

Concen: 162.071 ug/l

RT: 6.18 min Scan# 573

Delta R.T. -0.07 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

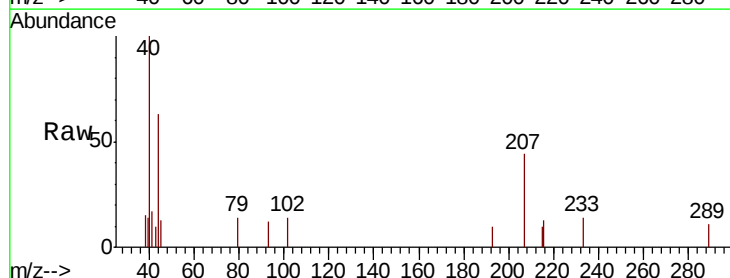
Tgt Ion: 93 Resp: 76

Ion Ratio Lower Upper

93 100

95 0.0 68.4 102.6#

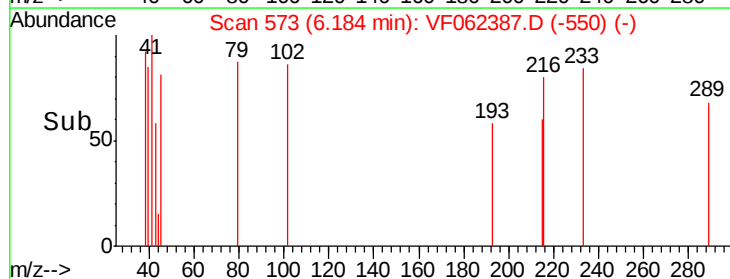
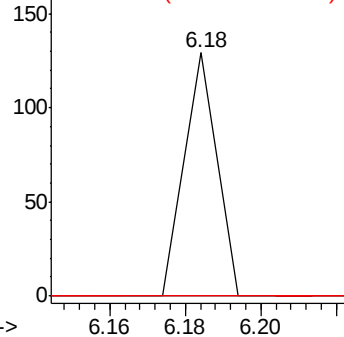
174 0.0 99.6 149.4#

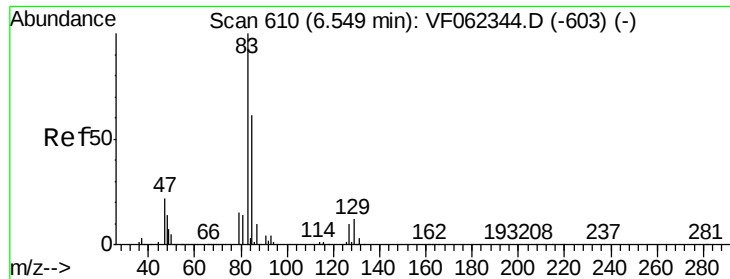


Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 67.383 ug/l

RT: 6.60 min Scan# 615

Delta R.T. 0.05 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

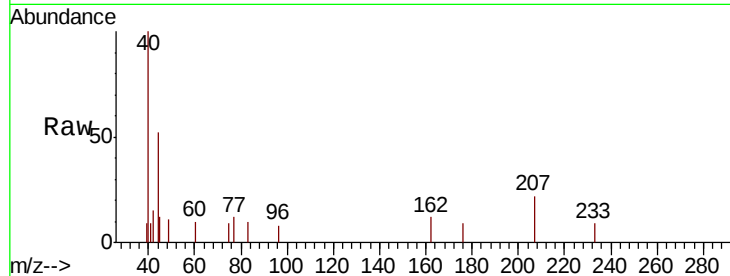
Tot Ion: 83 Resp: 79

Ion Ratio Lower Upper

83 100

85 0.0 49.1 73.7#

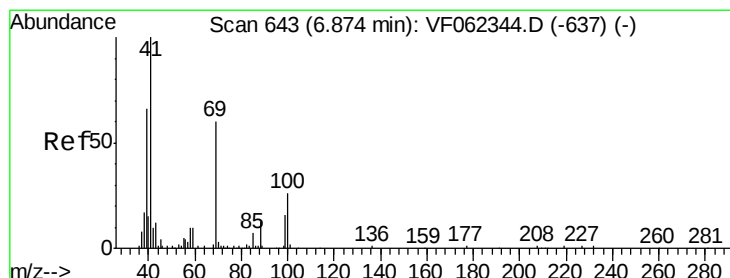
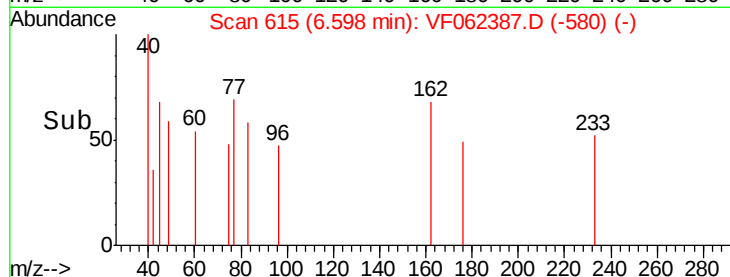
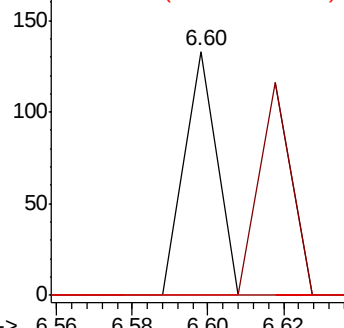
127 0.0 7.8 11.8#



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 1851.918 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

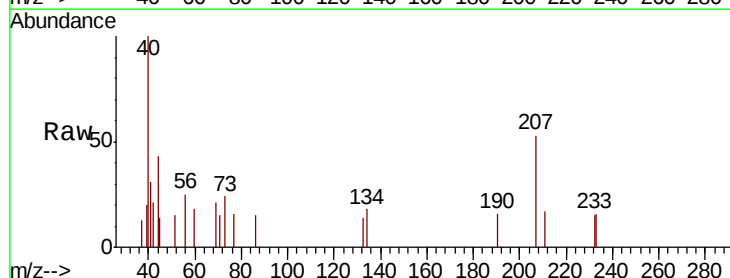
Tgt Ion: 41 Resp: 675

Ion Ratio Lower Upper

41 100

69 22.7 48.6 72.8#

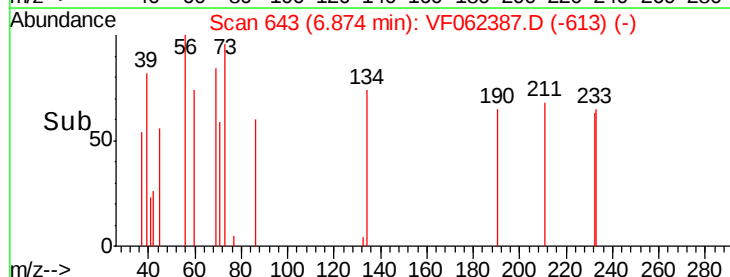
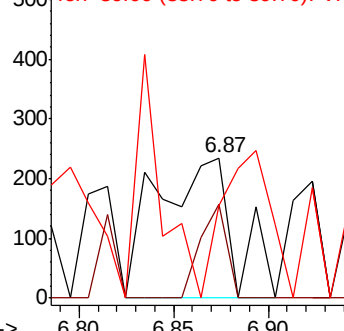
39 65.2 56.1 84.1

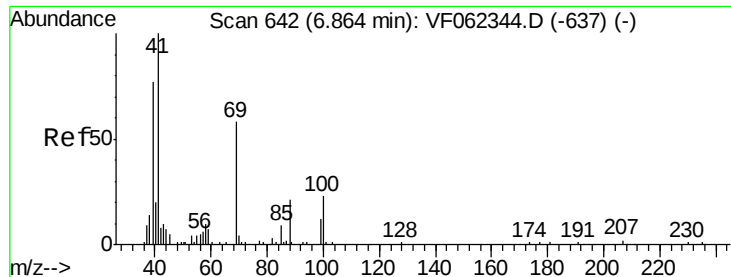


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

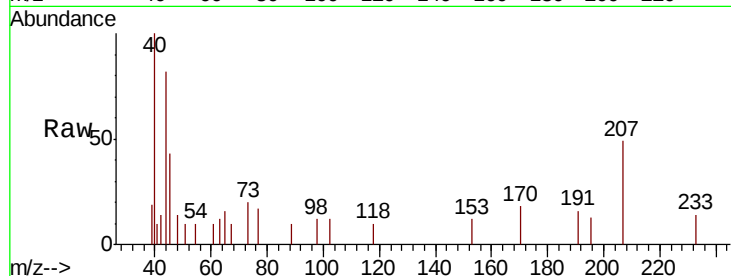




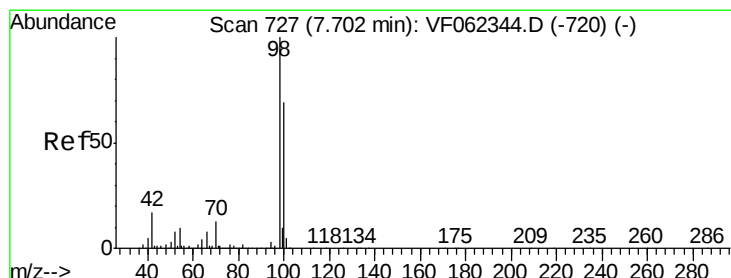
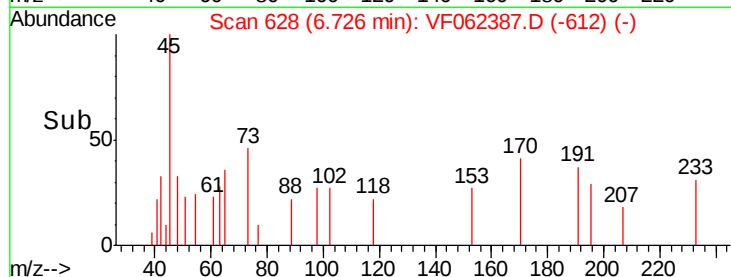
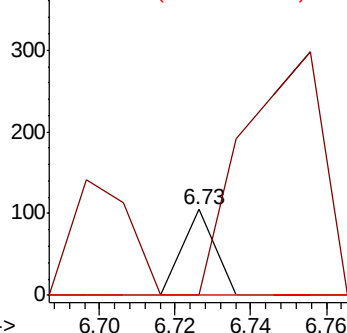
#49
1,4-Dioxane
Concen: 16744.927 ug/l
RT: 6.73 min Scan# 628
Delta R.T. -0.14 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Instrument :
MSVOA_F
ClientSampleId :
SB-09-1.0-1.5

Tot Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 0.0 55.6 83.4#
58 0.0 52.8 79.2#

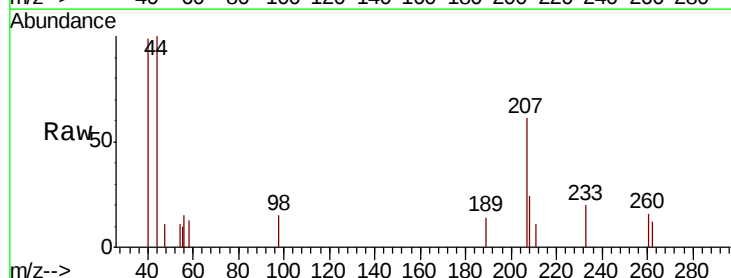


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

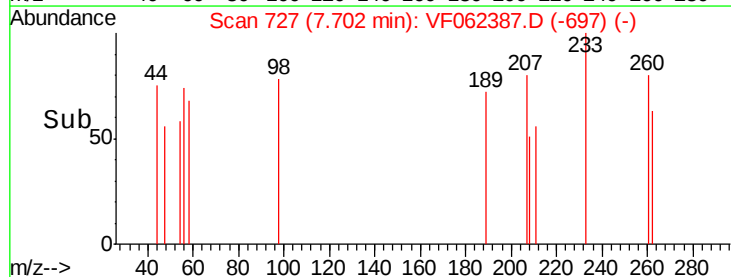
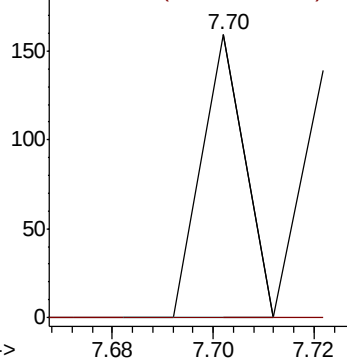


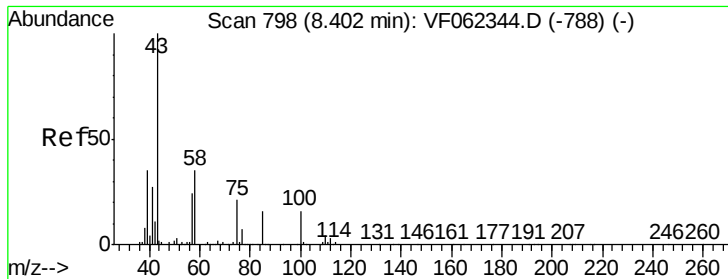
#50
Toluene-d8
Concen: 36.926 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF062387.D
Acq: 8 May 2019 19:52

Tgt Ion: 98 Resp: 94
Ion Ratio Lower Upper
98 100
100 0.0 53.3 79.9#



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: 460.571 ug/l

RT: 8.53 min Scan# 811

Delta R.T. 0.13 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

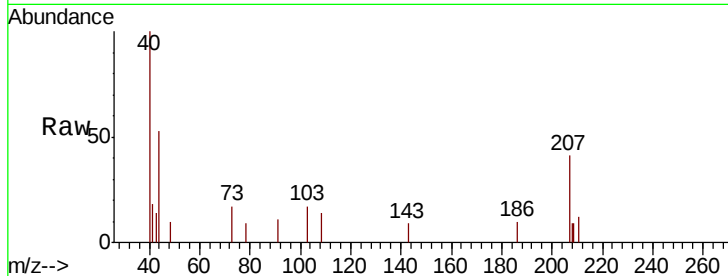
SB-09-1.0-1.5

Tot Ion: 43 Resp: 180

Ion Ratio Lower Upper

43 100

58 38.3 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.53

150

100

50

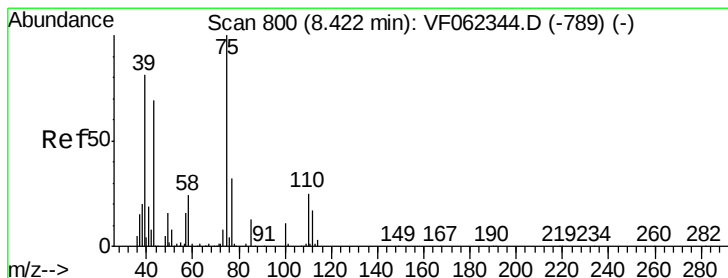
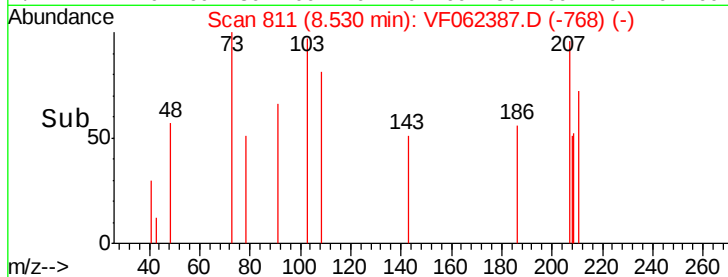
0

8.50

8.52

8.54

Time-->



#53

t-1,3-Dichloropropene

Concen: 77.814 ug/l

RT: 8.28 min Scan# 786

Delta R.T. -0.14 min

Lab File: VF062387.D

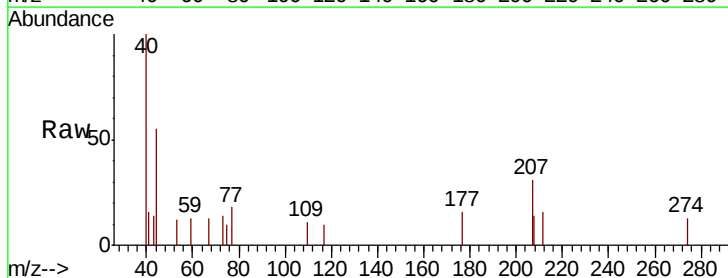
Acq: 8 May 2019 19:52

Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

77 171.8 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

200

150

100

50

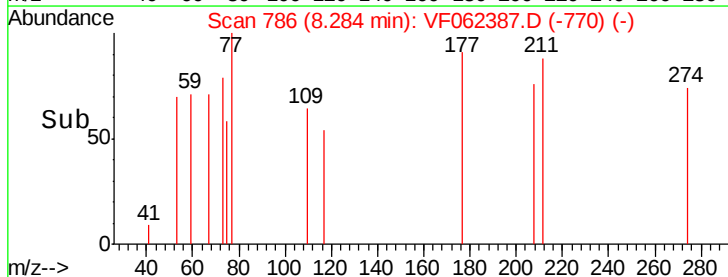
0

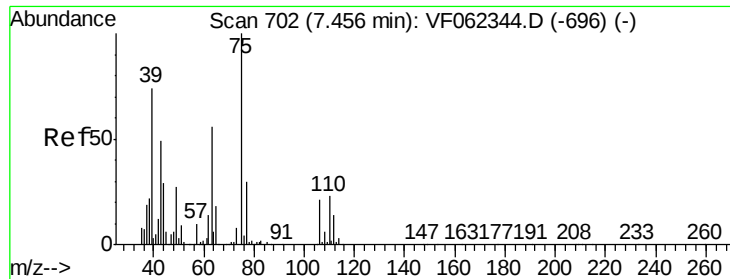
8.26

8.28

8.30

Time-->





#54

cis-1,3-Dichloropropene

Concen: 66.861 ug/l

RT: 7.48 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

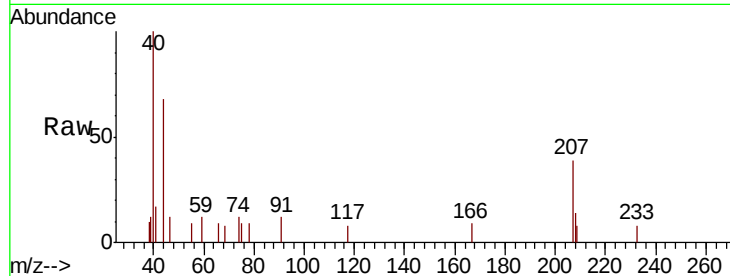
Tot Ion: 75 Resp: 69

Ion Ratio Lower Upper

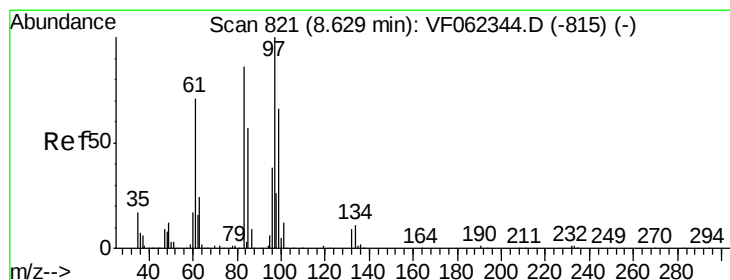
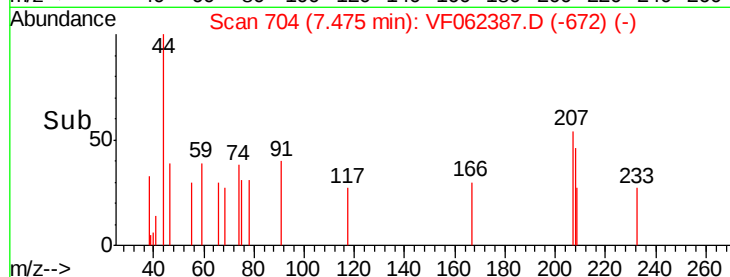
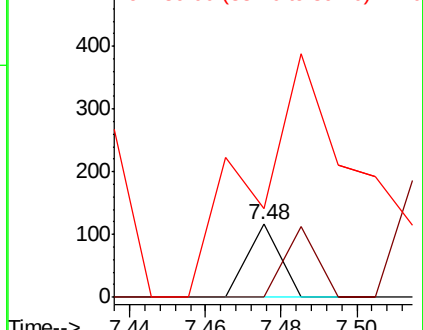
75 100

77 0.0 24.0 36.0#

39 122.4 58.7 88.1#



Abundance Ion 74.90 (74.60 to 75.60): VF0
Ion 76.90 (76.60 to 77.60): VF0
Ion 39.00 (38.70 to 39.70): VF0



#55

1,1,2-Trichloroethane

Concen: 202.453 ug/l

RT: 8.79 min Scan# 837

Delta R.T. 0.16 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Tgt Ion: 97 Resp: 99

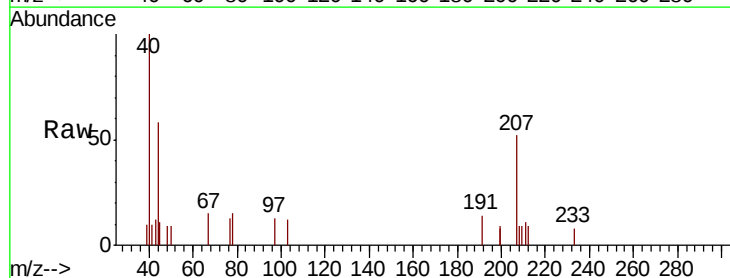
Ion Ratio Lower Upper

97 100

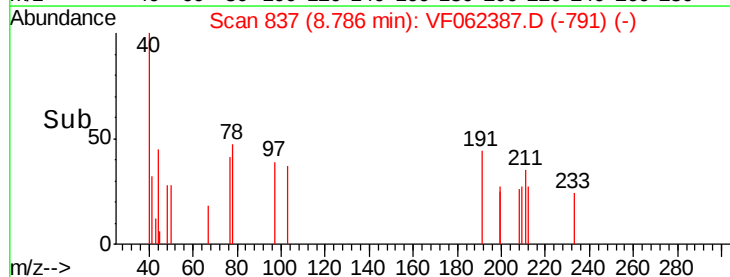
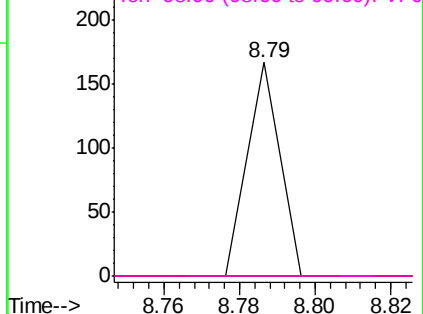
83 0.0 68.5 102.7#

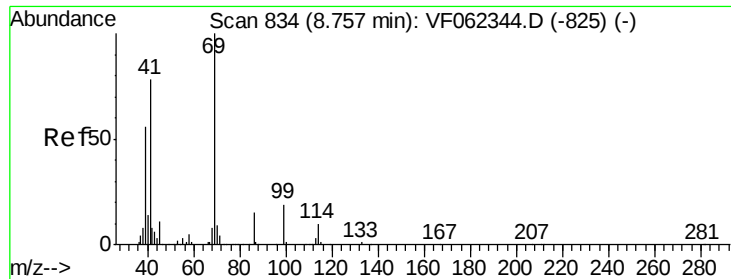
85 0.0 45.4 68.2#

99 0.0 52.7 79.1#



Abundance Ion 96.90 (96.60 to 97.60): VF0
Ion 82.90 (82.60 to 83.60): VF0
Ion 84.90 (84.60 to 85.60): VF0
Ion 98.90 (98.60 to 99.60): VF0





#56

Ethyl methacrylate

Concen: 120.110 ug/l

RT: 8.73 min Scan# 831

Delta R.T. -0.03 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5

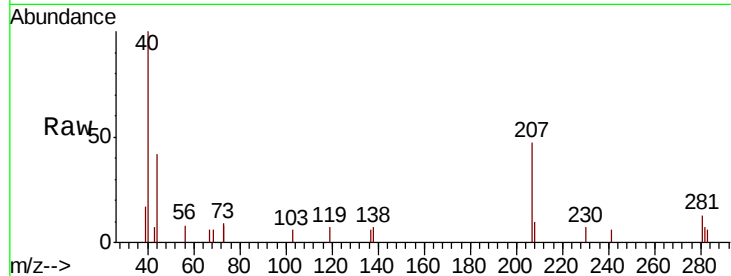
Tot Ion: 69 Resp: 62

Ion Ratio Lower Upper

69 100

41 290.3 66.3 99.5#

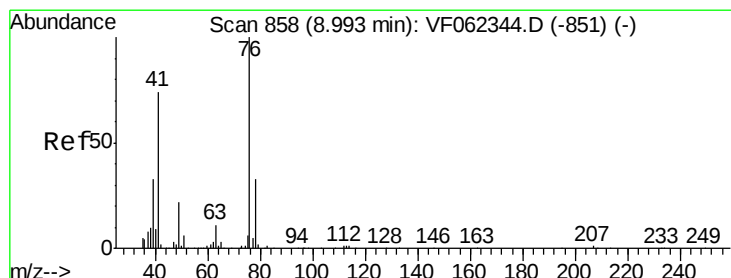
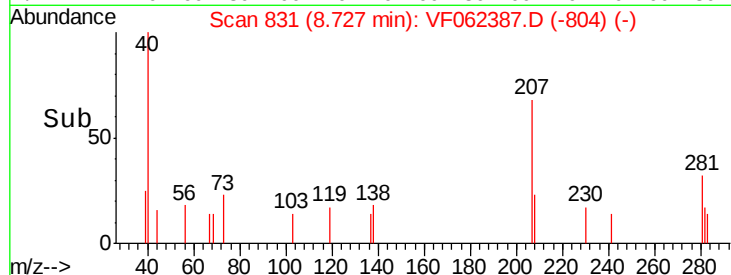
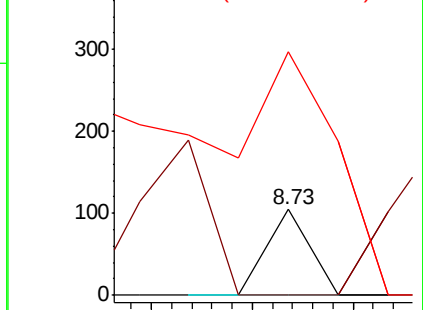
39 0.0 50.1 75.1#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 115.076 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.02 min

Lab File: VF062387.D

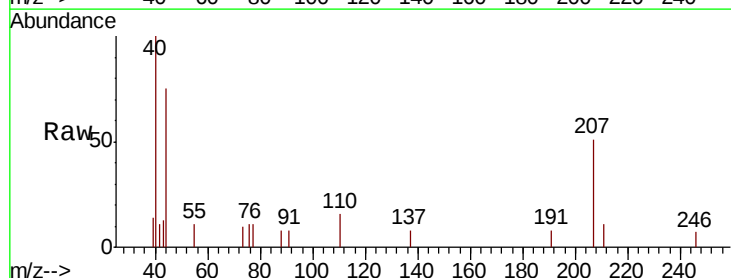
Acq: 8 May 2019 19:52

Tgt Ion: 76 Resp: 85

Ion Ratio Lower Upper

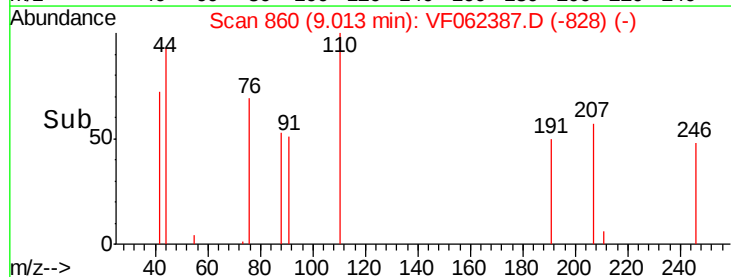
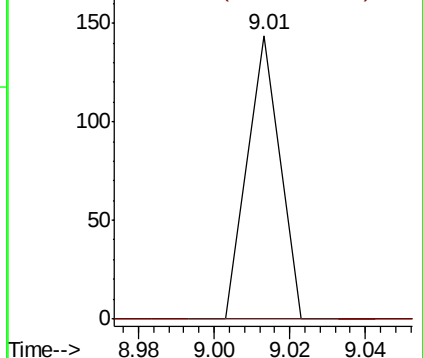
76 100

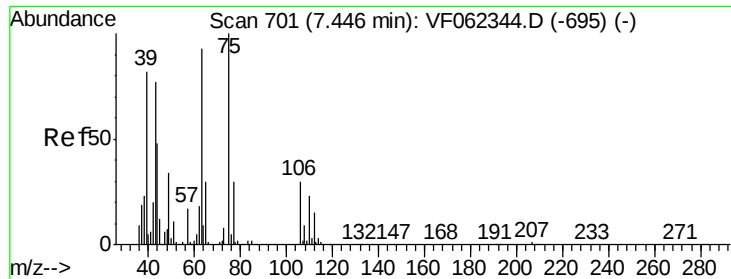
78 0.0 26.4 39.6#



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 399.509 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

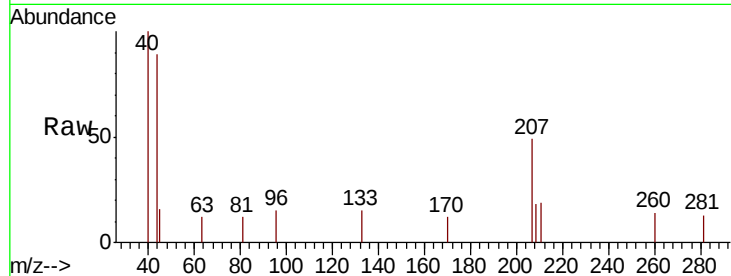
SB-09-1.0-1.5

Tot Ion: 63 Resp: 62

Ion Ratio Lower Upper

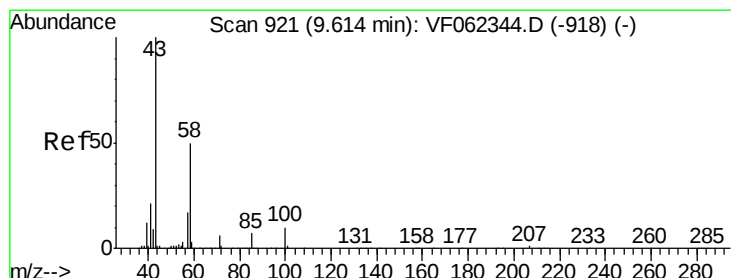
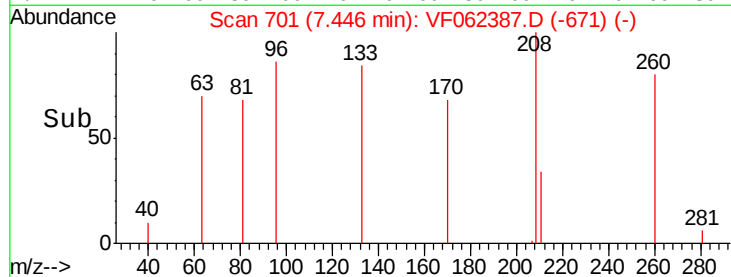
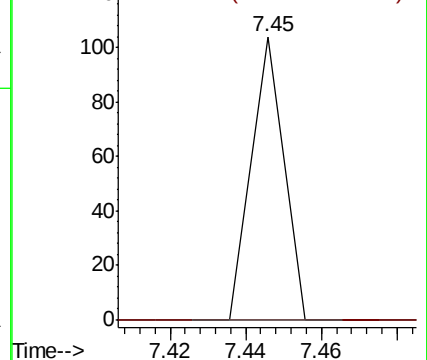
63 100

106 0.0 25.8 38.8#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): VF0



#59

2-Hexanone

Concen: 1724.068 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.02 min

Lab File: VF062387.D

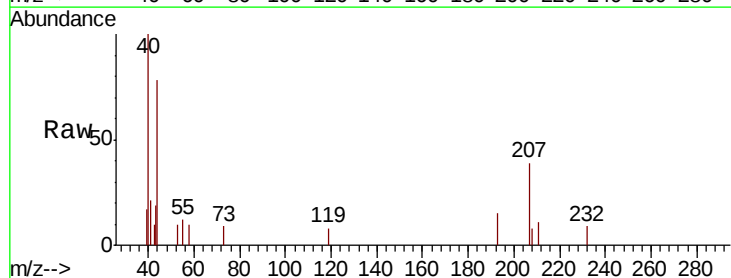
Acq: 8 May 2019 19:52

Tgt Ion: 43 Resp: 466

Ion Ratio Lower Upper

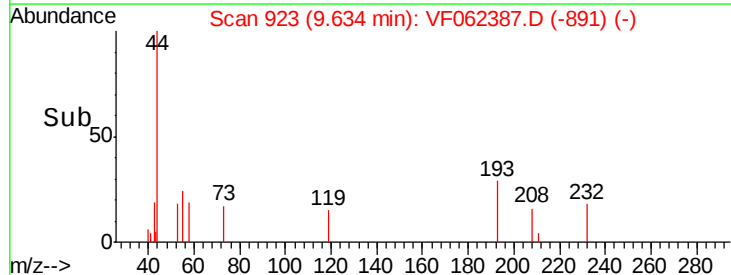
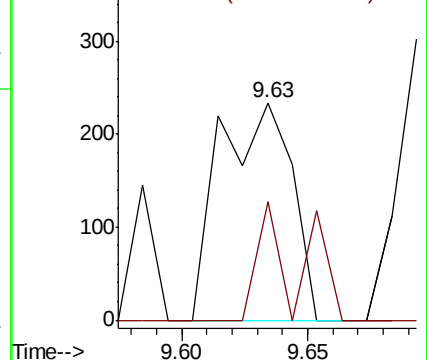
43 100

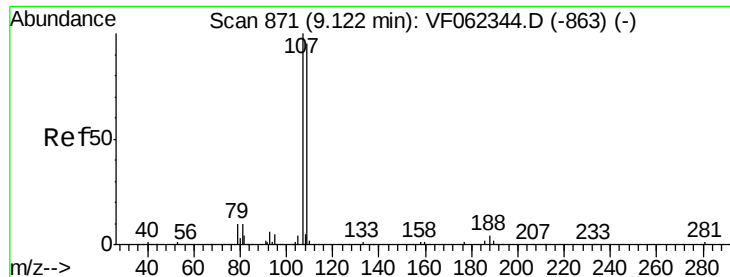
58 31.1 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#61

1,2-Dibromoethane

Concen: 127.016 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.03 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

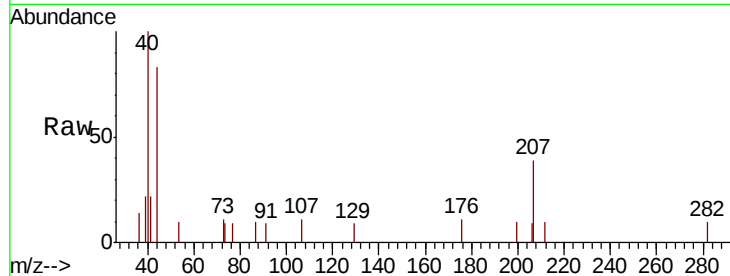
SB-09-1.0-1.5

Tot Ion:107 Resp: 73

Ion Ratio Lower Upper

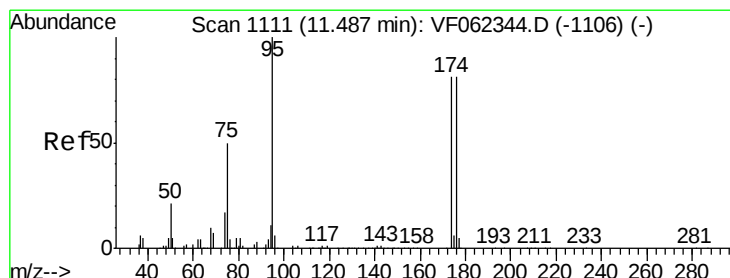
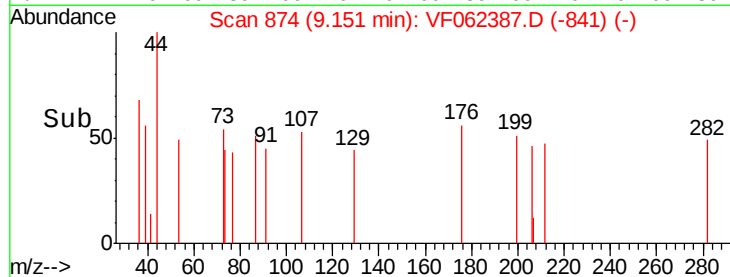
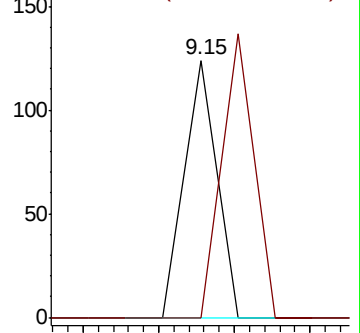
107 100

109 111.0 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 63.562 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. -0.02 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

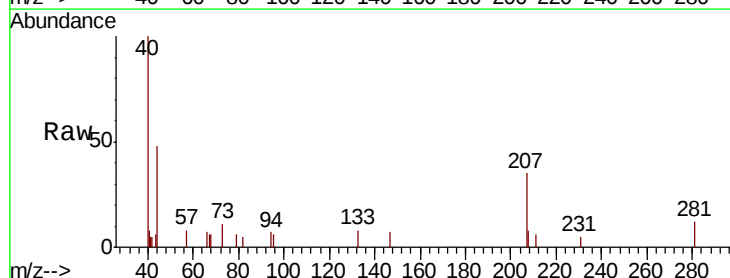
Tgt Ion: 95 Resp: 73

Ion Ratio Lower Upper

95 100

174 0.0 0.0 191.8

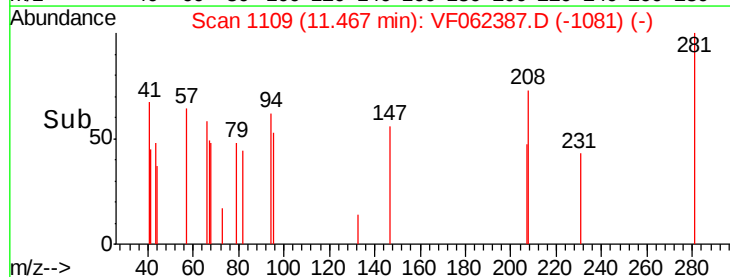
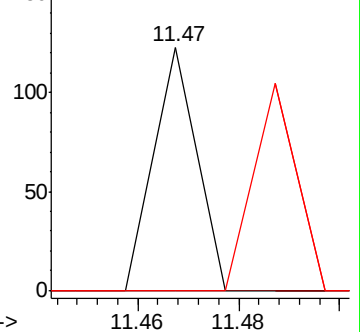
176 84.9 0.0 193.2

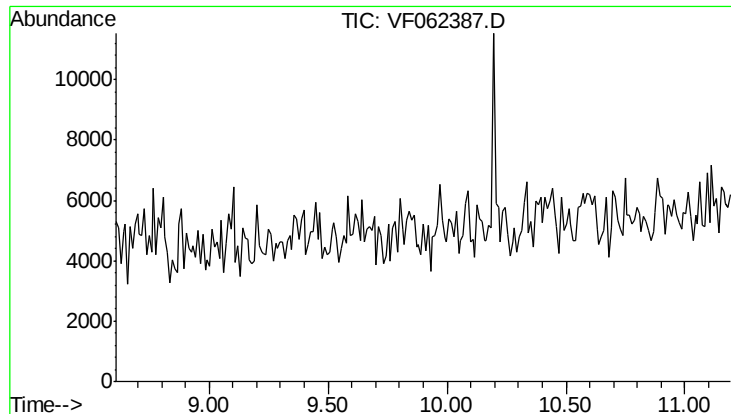


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 0.000 ug/l

Expected RT: 9.90 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Tot Ion: 117

Sig Exp Ratio

117 100

82 52.7

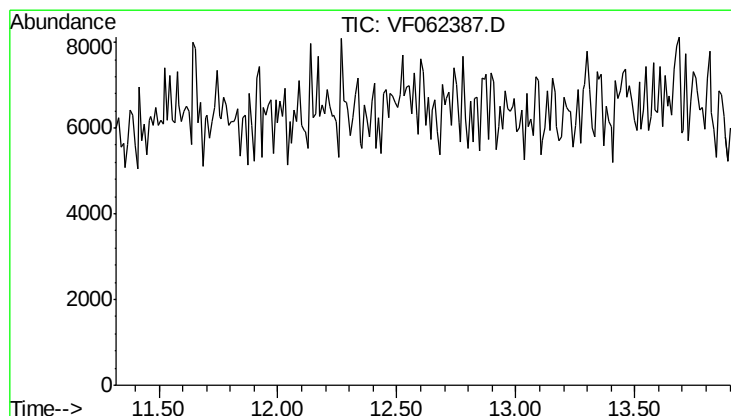
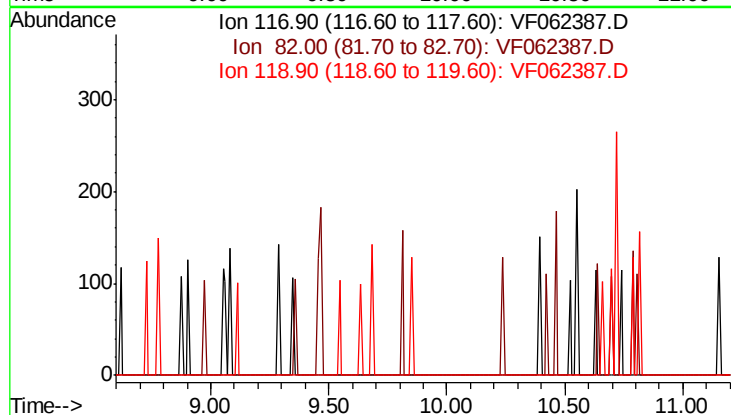
119 31.2

Instrument :

MSVOA_F

ClientSampleId :

SB-09-1.0-1.5



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 12.61 min

Lab File: VF062387.D

Acq: 8 May 2019 19:52

Tgt Ion: 152

Sig Exp Ratio

152 100

115 52.8

150 167.5

