

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082418\
 Data File : VF060097.D
 Acq On : 24 Aug 2018 13:56
 Operator : VA/AP
 Sample : VF0824SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0824SBS01

Quant Time: Aug 25 03:44:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	164734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	261966	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	290977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	172891	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	108779	48.25	ug/l	-0.02
Spiked Amount			Recovery	=	96.50%	
35) Dibromofluoromethane	4.29	113	104527	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
50) Toluene-d8	7.71	98	281846	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
62) 4-Bromofluorobenzene	11.51	95	156014	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	54690	25.22	ug/l	92
3) Chloromethane	1.07	50	40474	27.05	ug/l	94
4) Vinyl Chloride	1.12	62	29407	21.84	ug/l	92
5) Bromomethane	1.31	94	22452	21.94	ug/l	95
6) Chloroethane	1.39	64	13244	24.95	ug/l	90
7) Trichlorofluoromethane	1.48	101	80339	29.67	ug/l	97
8) Diethyl Ether	1.70	74	9053	18.70	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	1.86	101	37126	26.12	ug/l	98
10) Methyl Iodide	1.93	142	36829	19.60	ug/l	90
11) Tert butyl alcohol	2.66	59	9775	81.50	ug/l #	96
12) 1,1-Dichloroethene	1.83	96	24339	23.24	ug/l	88
13) Acrolein	2.08	56	3096	64.13	ug/l	87
14) Allyl chloride	2.19	41	41162	22.13	ug/l	89
15) Acrylonitrile	3.07	53	21536	90.99	ug/l	94
16) Acetone	2.33	43	67483	113.89	ug/l	100
17) Carbon Disulfide	1.84	76	78462	23.93	ug/l	100
18) Methyl Acetate	2.45	43	18180	15.09	ug/l	98
19) Methyl tert-butyl Ether	2.53	73	60741	18.10	ug/l	98
20) Methylene Chloride	2.28	84	27117	20.18	ug/l #	93
21) trans-1,2-Dichloroethene	2.41	96	25201	21.51	ug/l	98
22) Diisopropyl ether	2.92	45	76724	18.42	ug/l	96
23) Vinyl Acetate	3.33	43	221891	100.57	ug/l	97
24) 1,1-Dichloroethane	3.00	63	59572	23.16	ug/l	98
25) 2-Butanone	4.50	43	83239	108.15	ug/l	96
26) 2,2-Dichloropropane	3.76	77	64114	24.09	ug/l	87
27) cis-1,2-Dichloroethene	3.63	96	39441	23.75	ug/l	97
28) Bromochloromethane	3.88	49	25716	23.68	ug/l	90
29) Tetrahydrofuran	4.25	42	27678	95.25	ug/l	99
30) Chloroform	4.04	83	87466	24.22	ug/l	90
31) Cyclohexane	3.86	56	48713	24.85	ug/l	92
32) 1,1,1-Trichloroethane	4.27	97	79339	25.66	ug/l	97
36) 1,1-Dichloropropene	4.46	75	52362	21.27	ug/l	94
37) Ethyl Acetate	4.28	43	27311	18.55	ug/l #	78
38) Carbon Tetrachloride	4.17	117	69360	24.33	ug/l	97

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 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	54768	23.73	ug/l	93
40) Benzene	4.81	78	122489	22.78	ug/l	94
41) Methacrylonitrile	4.91	41	13301	17.86	ug/l	90
42) 1,2-Dichloroethane	5.11	62	62328	21.61	ug/l	99
43) Isopropyl Acetate	7.11	43	28985	15.64	ug/l #	99
44) Trichloroethene	5.67	130	40487	22.77	ug/l	94
45) 1,2-Dichloropropane	6.40	63	32766	21.54	ug/l	92
46) Dibromomethane	6.25	93	25014	21.01	ug/l	97
47) Bromodichloromethane	6.55	83	65007	22.61	ug/l	96
48) Methyl methacrylate	6.87	41	21737	17.73	ug/l	92
49) 1,4-Dioxane	6.87	88	4356	370.05	ug/l	95
51) 4-Methyl-2-Pentanone	8.40	43	162545	101.58	ug/l	97
52) Toluene	7.78	92	92187	24.11	ug/l	94
53) t-1,3-Dichloropropene	8.42	75	56188	21.55	ug/l	96
54) cis-1,3-Dichloropropene	7.46	75	60988	20.96	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	31660	21.82	ug/l	95
56) Ethyl methacrylate	8.76	69	32288	18.38	ug/l	93
57) 1,3-Dichloropropane	8.99	76	50469	19.79	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.78	63	16206	116.24	ug/l	100
59) 2-Hexanone	9.62	43	124789	96.35	ug/l	99
60) Dibromochloromethane	8.87	129	43074	20.11	ug/l	96
61) 1,2-Dibromoethane	9.13	107	34833	20.44	ug/l	99
64) Tetrachloroethene	8.30	164	42361	21.61	ug/l	95
65) Chlorobenzene	9.94	112	126085	22.95	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	44159	21.19	ug/l	97
67) Ethyl Benzene	10.04	91	213841	22.56	ug/l	100
68) m/p-Xylenes	10.26	106	161984	47.25	ug/l	96
69) o-Xylene	10.83	106	82049	22.09	ug/l	95
70) Styrene	10.90	104	130653	22.93	ug/l	97
71) Bromoform	10.89	173	26608	18.30	ug/l	96
73) Isopropylbenzene	11.23	105	238725	22.94	ug/l	98
74) N-amyl acetate	11.46	43	57905	17.90	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.78	83	46921	20.64	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	37010	21.00	ug/l	96
77) Bromobenzene	11.60	156	60689	21.44	ug/l	96
78) n-propylbenzene	11.68	91	317044	24.68	ug/l	98
79) 2-Chlorotoluene	11.81	91	177740	23.53	ug/l	98
80) 1,3,5-Trimethylbenzene	11.91	105	210931	23.26	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.95	75	19171	23.77	ug/l	91
82) 4-Chlorotoluene	11.99	91	189172	23.07	ug/l	98
83) tert-Butylbenzene	12.22	119	217769	24.63	ug/l	96
84) 1,2,4-Trimethylbenzene	12.29	105	215432	22.35	ug/l	98
85) sec-Butylbenzene	12.38	105	292148	23.73	ug/l	98
86) p-Isopropyltoluene	12.54	119	250812	24.56	ug/l	95
87) 1,3-Dichlorobenzene	12.55	146	124255	23.74	ug/l	100
88) 1,4-Dichlorobenzene	12.64	146	114434	22.00	ug/l	97
89) n-Butylbenzene	12.92	91	248184	25.01	ug/l	98
90) Hexachloroethane	13.00	117	55096	24.01	ug/l	88
91) 1,2-Dichlorobenzene	13.02	146	111869	22.23	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	7791	16.77	ug/l	93

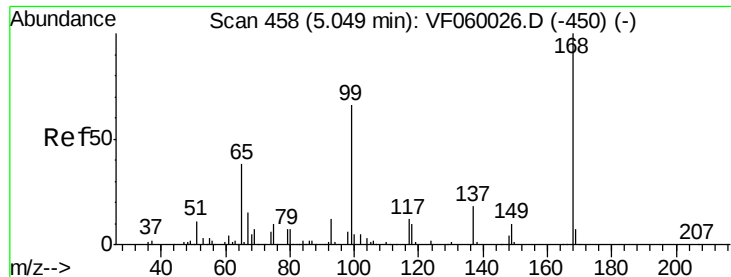
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082418\
Data File : VF060097.D
Acq On : 24 Aug 2018 13:56
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Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	77491	20.91	ug/l	99
94) Hexachlorobutadiene	14.26	225	53571	23.22	ug/l	93
95) Naphthalene	14.52	128	90954	15.78	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	68391	19.34	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

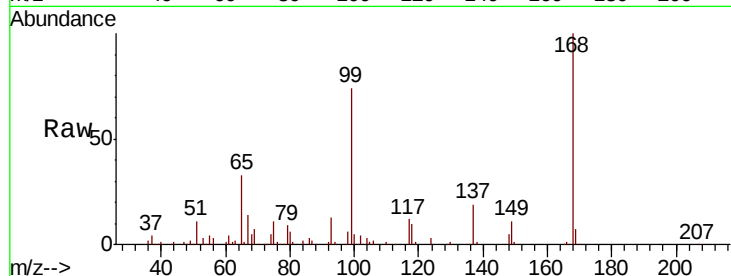
VF0824SBS01

Tot Ion:168 Resp: 164734

Ion Ratio Lower Upper

168 100

99 73.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

30000

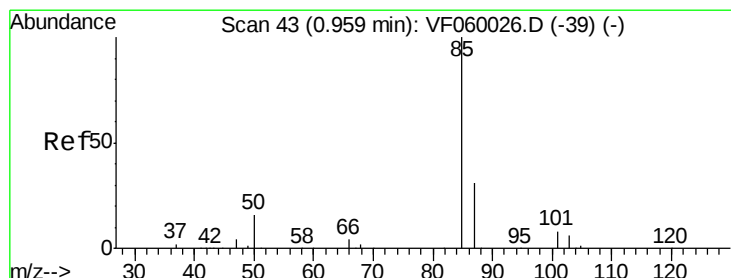
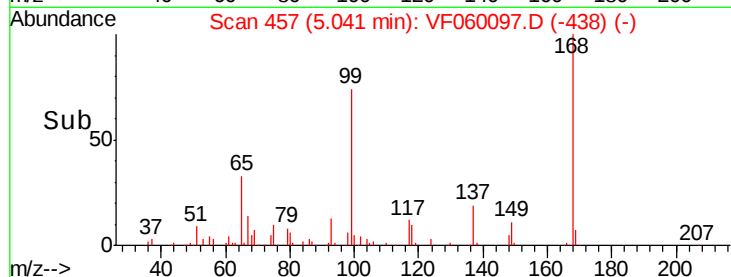
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 25.22 ug/l

RT: 0.96 min Scan# 43

Delta R.T. 0.00 min

Lab File: VF060097.D

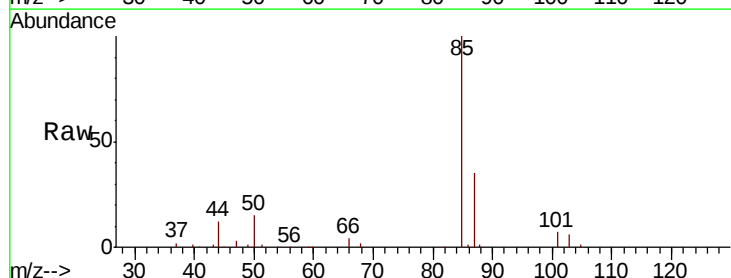
Acq: 24 Aug 2018 13:56

Tgt Ion: 85 Resp: 54690

Ion Ratio Lower Upper

85 100

87 35.0 15.3 45.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

40000

30000

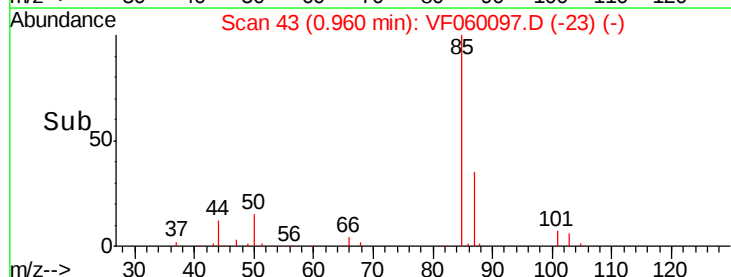
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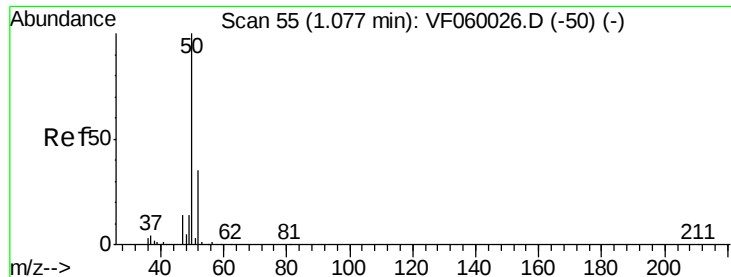
10000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 27.05 ug/l

RT: 1.07 min Scan# 54

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

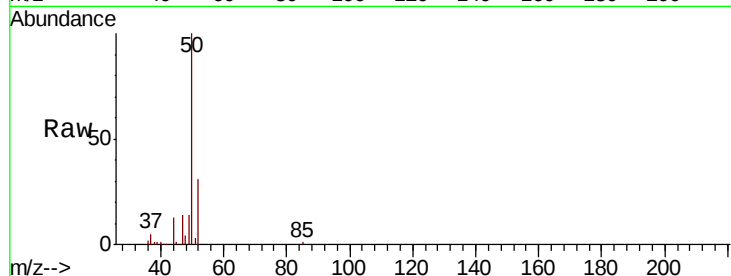
VF0824SBS01

Tot Ion: 50 Resp: 40474

Ion Ratio Lower Upper

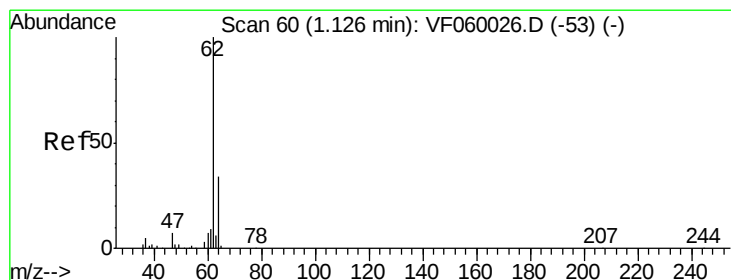
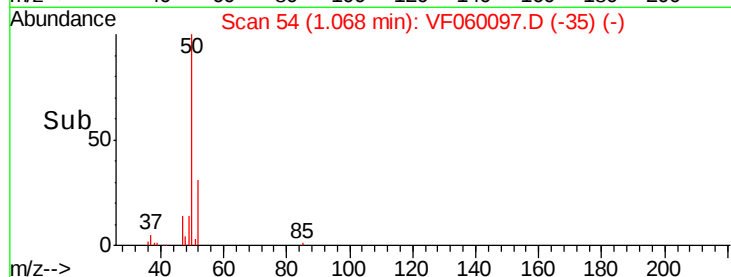
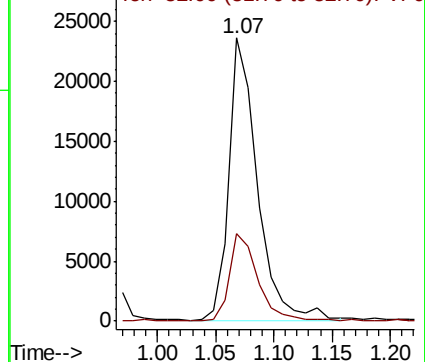
50 100

52 30.9 27.6 41.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 21.84 ug/l

RT: 1.12 min Scan# 59

Delta R.T. -0.01 min

Lab File: VF060097.D

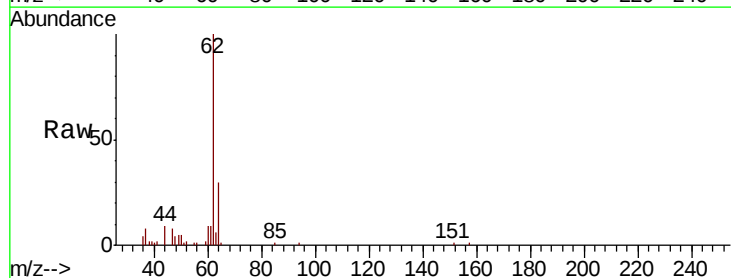
Acq: 24 Aug 2018 13:56

Tgt Ion: 62 Resp: 29407

Ion Ratio Lower Upper

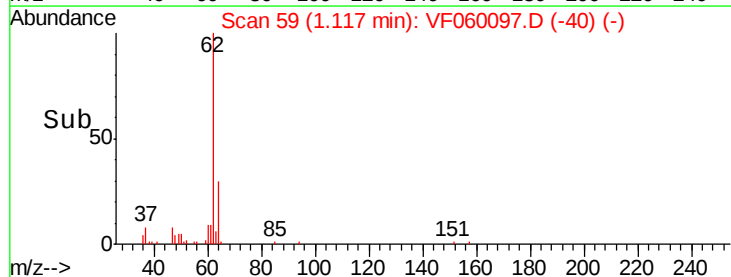
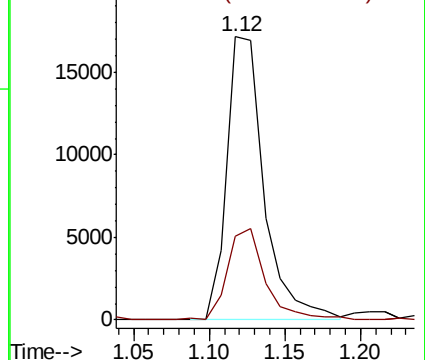
62 100

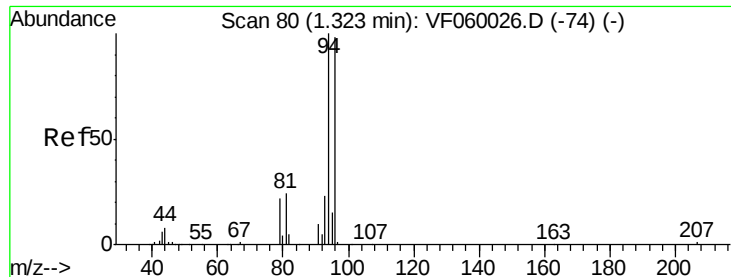
64 29.8 27.4 41.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 21.94 ug/l

RT: 1.31 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

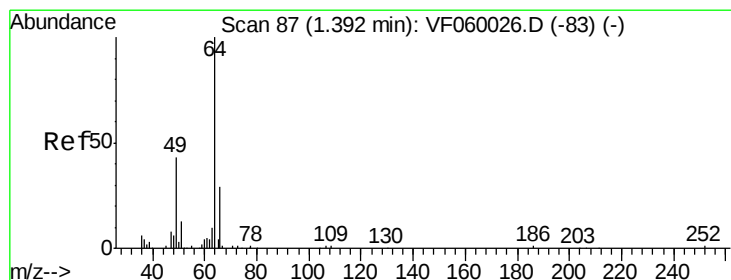
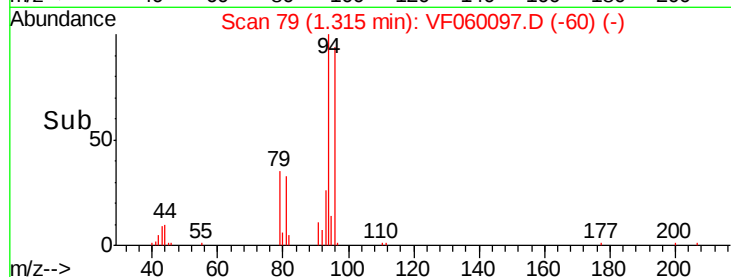
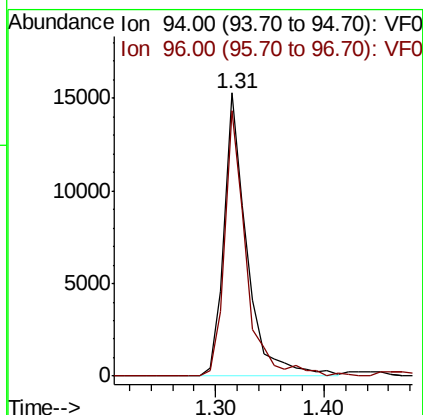
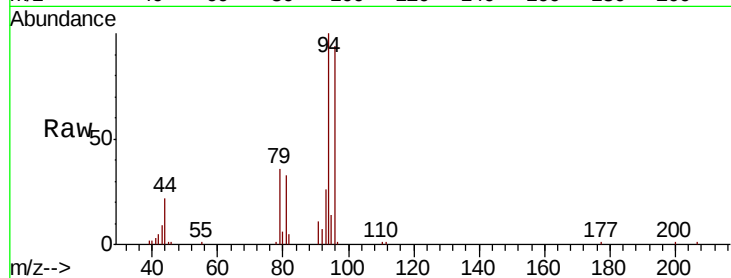
VF0824SBS01

Tot Ion: 94 Resp: 22452

Ion Ratio Lower Upper

94 100

96 93.7 78.6 118.0



#6

Chloroethane

Concen: 24.95 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF060097.D

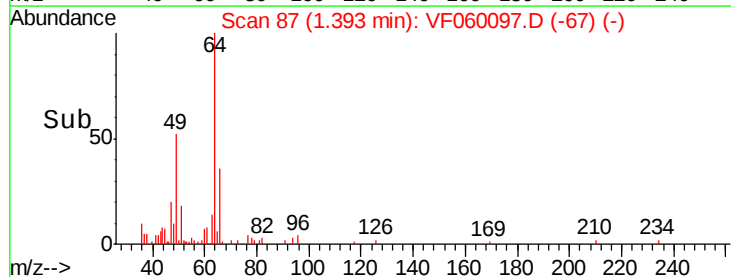
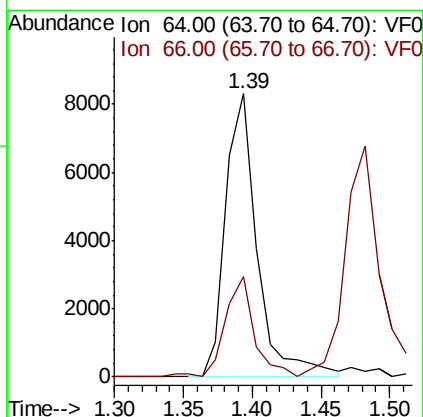
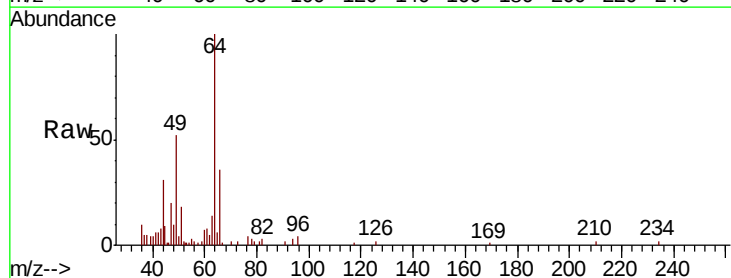
Acq: 24 Aug 2018 13:56

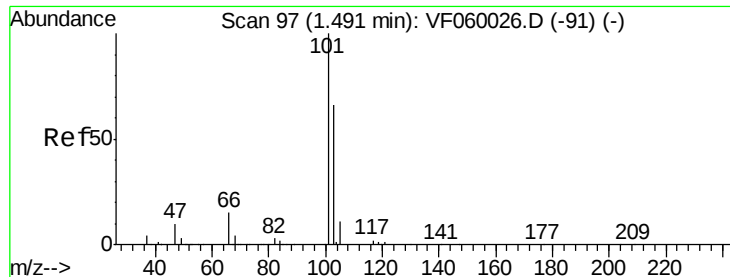
Tgt Ion: 64 Resp: 13244

Ion Ratio Lower Upper

64 100

66 35.6 24.1 36.1





#7

Trichlorofluoromethane

Concen: 29.67 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

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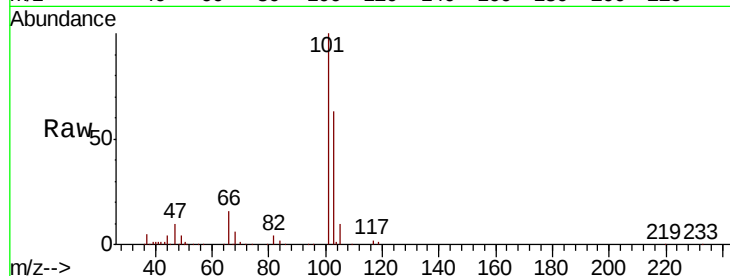
VF0824SBS01

Tot Ion:101 Resp: 80339

Ion Ratio Lower Upper

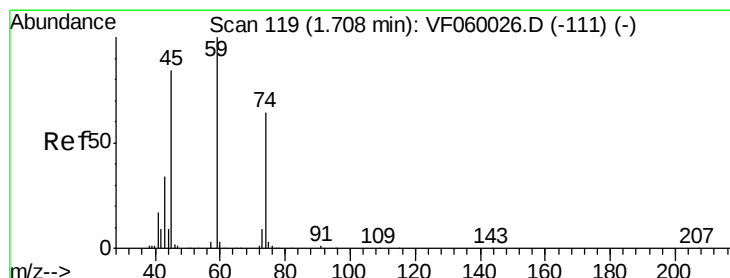
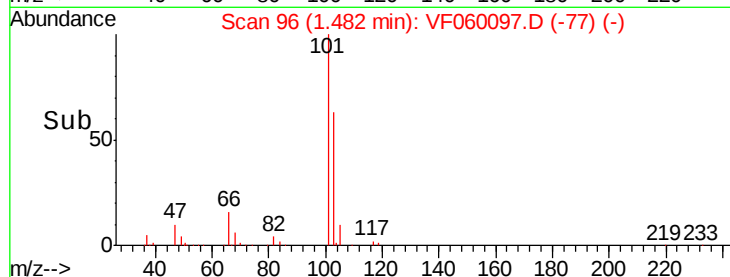
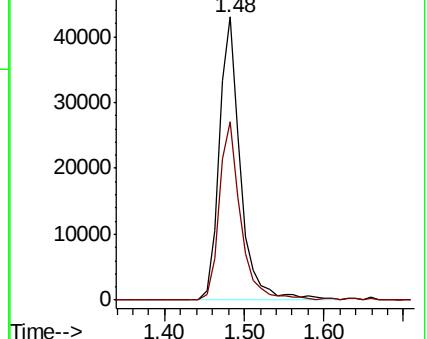
101 100

103 63.2 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 18.70 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF060097.D

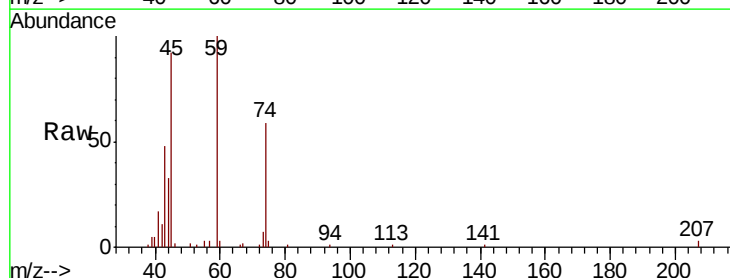
Acq: 24 Aug 2018 13:56

Tgt Ion: 74 Resp: 9053

Ion Ratio Lower Upper

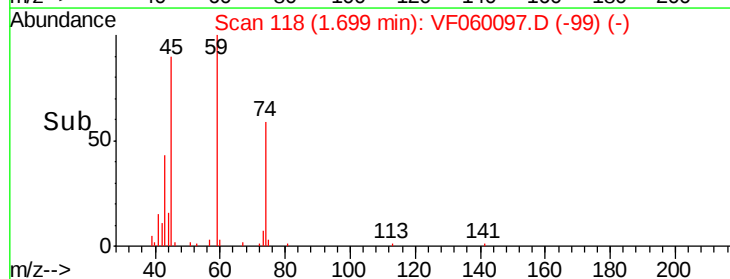
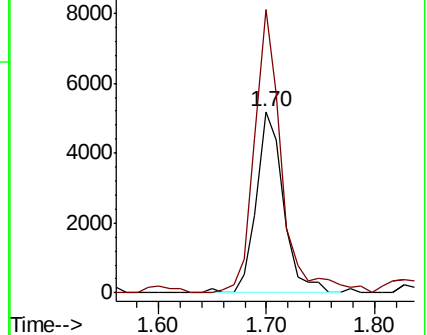
74 100

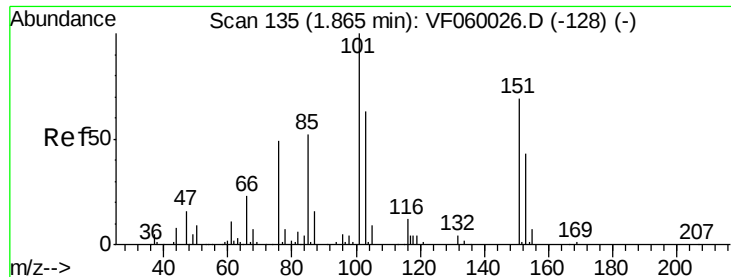
45 156.2 66.0 198.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 26.12 ug/l

RT: 1.86 min Scan# 134

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

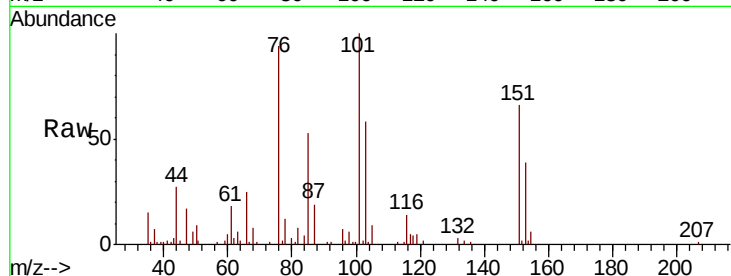
Tot Ion:101 Resp: 37126

Ion Ratio Lower Upper

101 100

85 52.6 41.5 62.3

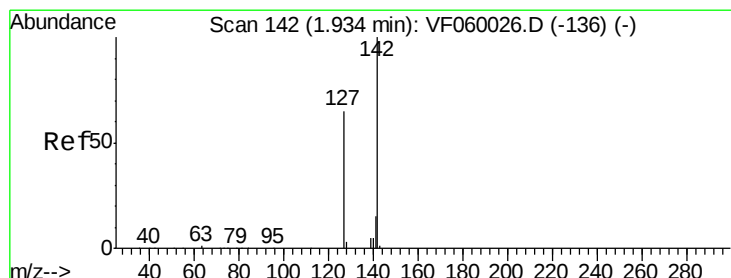
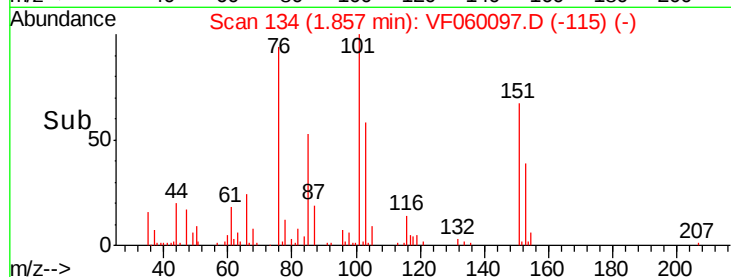
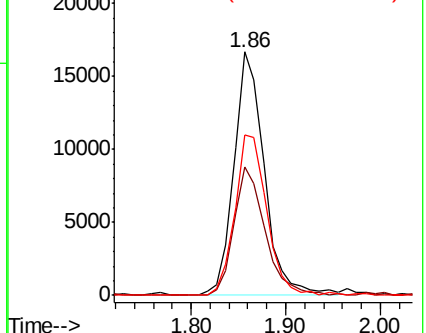
151 66.1 55.2 82.8



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



#10

Methyl Iodide

Concen: 19.60 ug/l

RT: 1.93 min Scan# 141

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

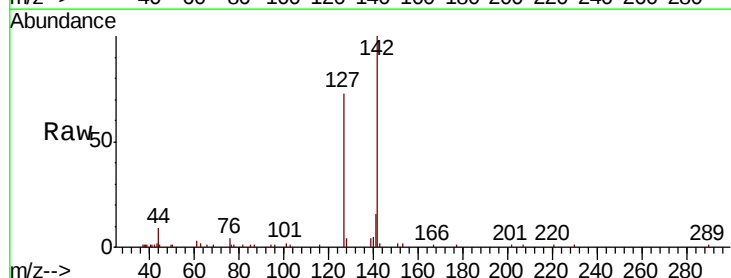
Tgt Ion:142 Resp: 36829

Ion Ratio Lower Upper

142 100

127 73.4 51.8 77.6

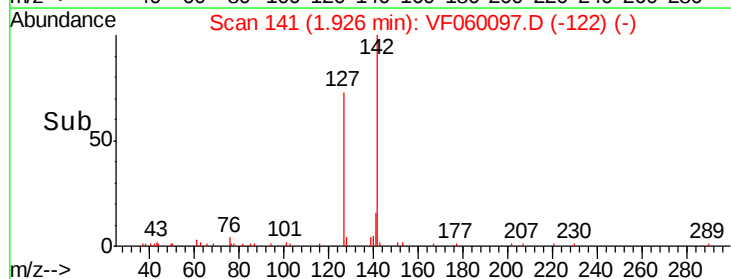
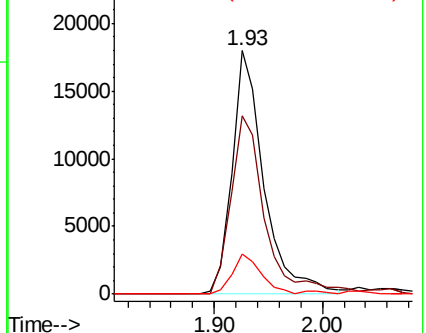
141 16.4 11.9 17.9

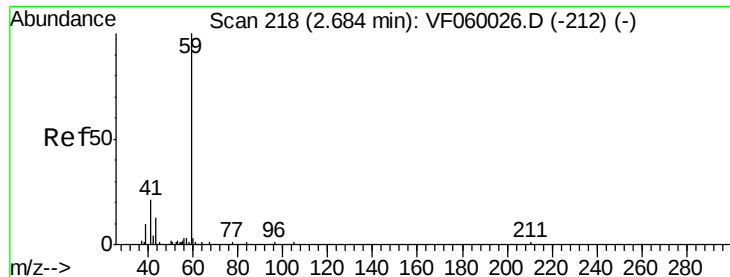


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



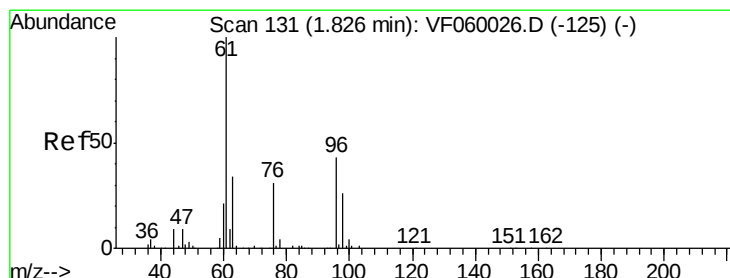
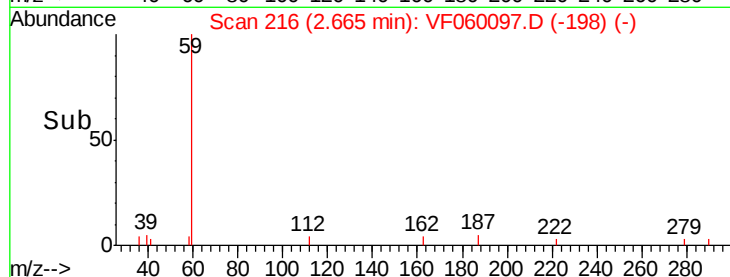
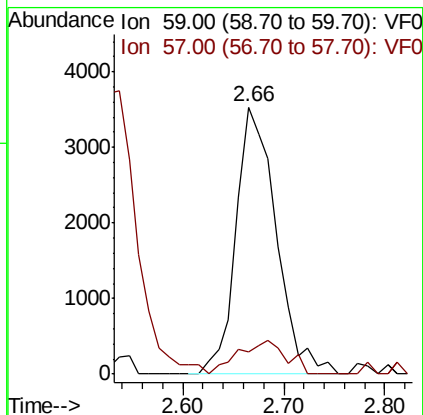
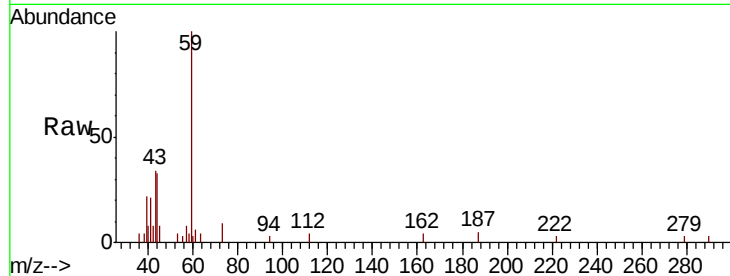


#11

Tert butyl alcohol
 Concen: 81.50 ug/l
 RT: 2.66 min Scan# 216
 Delta R.T. -0.02 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0824SBS01

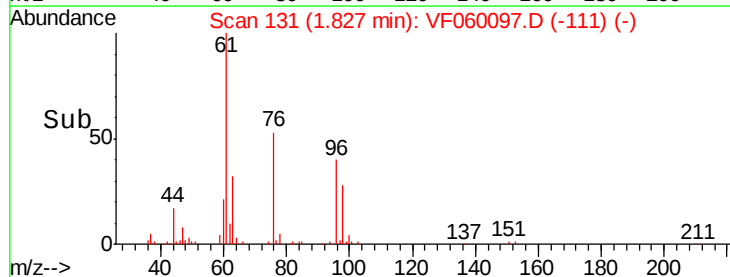
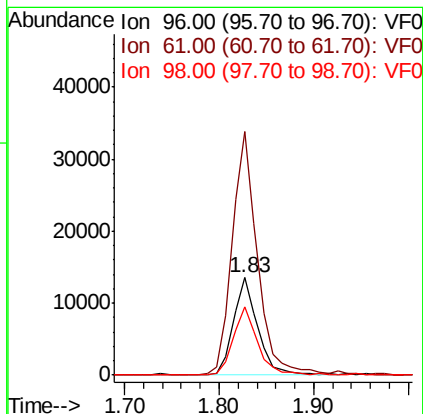
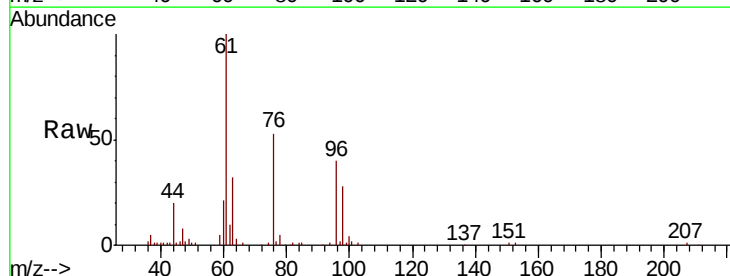
Tot Ion: 59 Resp: 9775
 Ion Ratio Lower Upper
 59 100
 57 8.2 5.4 8.2#

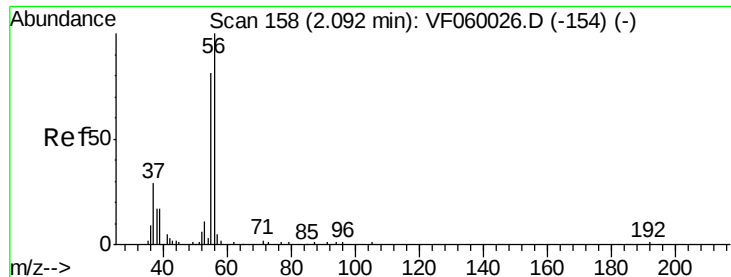


#12

1,1-Dichloroethene
 Concen: 23.24 ug/l
 RT: 1.83 min Scan# 131
 Delta R.T. 0.00 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Tgt Ion: 96 Resp: 24339
 Ion Ratio Lower Upper
 96 100
 61 250.4 185.0 277.6
 98 70.2 47.8 71.8





#13

Acrolein

Concen: 64.13 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

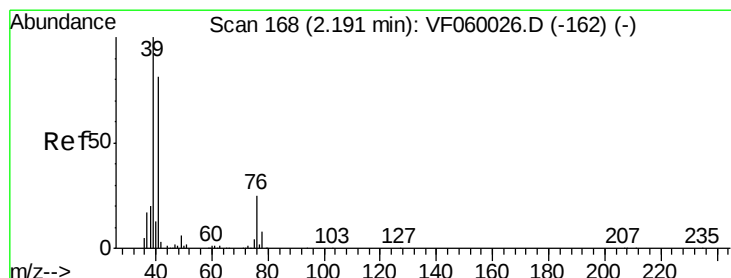
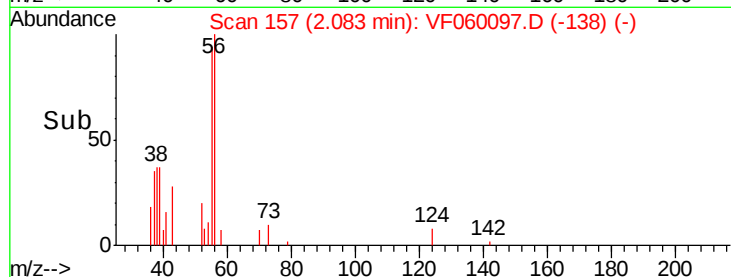
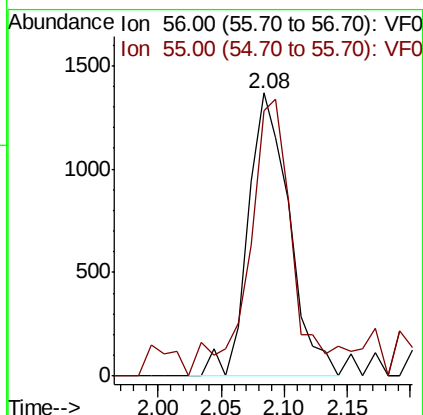
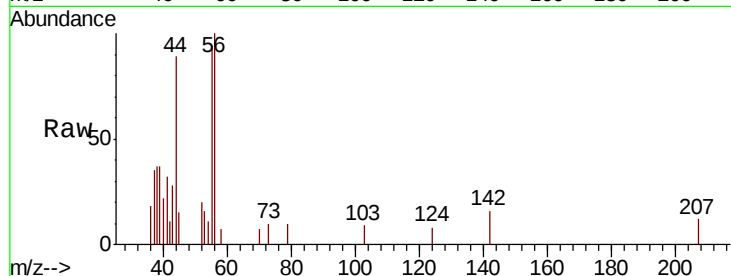
VF0824SBS01

Tot Ion: 56 Resp: 3096

Ion Ratio Lower Upper

56 100

55 93.6 65.6 98.4



#14

Allyl chloride

Concen: 22.13 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

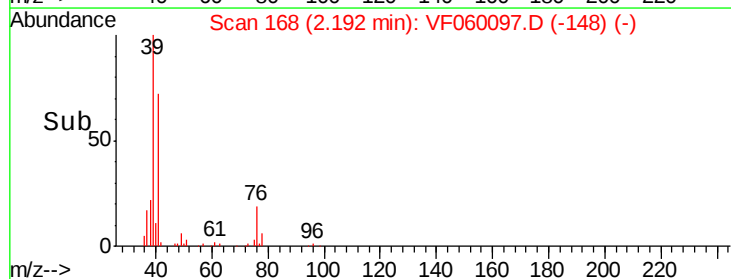
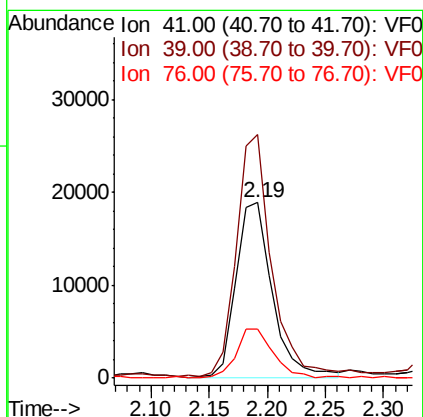
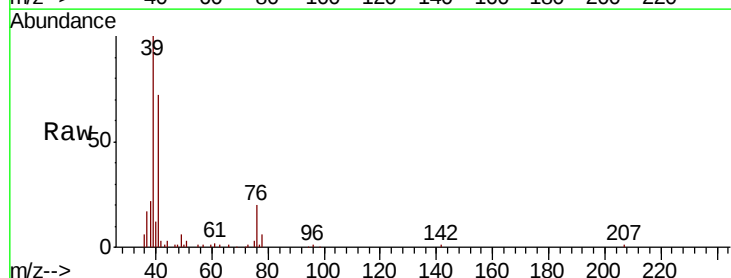
Tgt Ion: 41 Resp: 41162

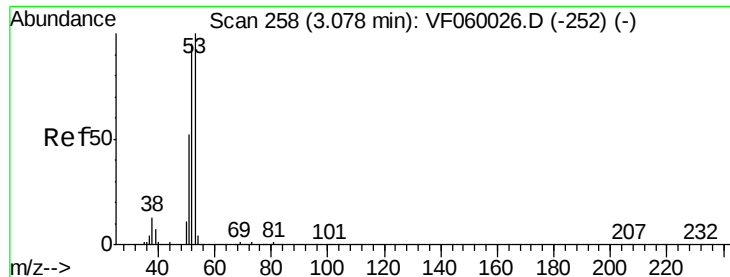
Ion Ratio Lower Upper

41 100

39 138.8 99.3 148.9

76 27.9 24.3 36.5





#15

Acrylonitrile

Concen: 90.99 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

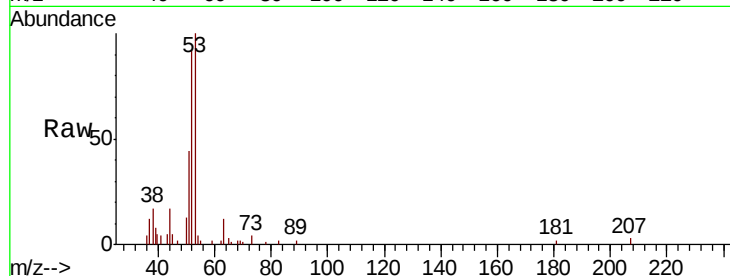
Tot Ion: 53 Resp: 21536

Ion Ratio Lower Upper

53 100

52 92.3 75.8 113.8

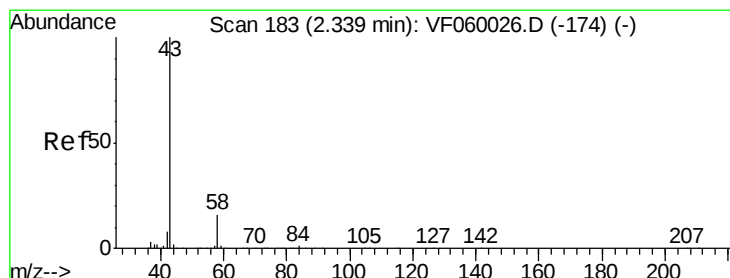
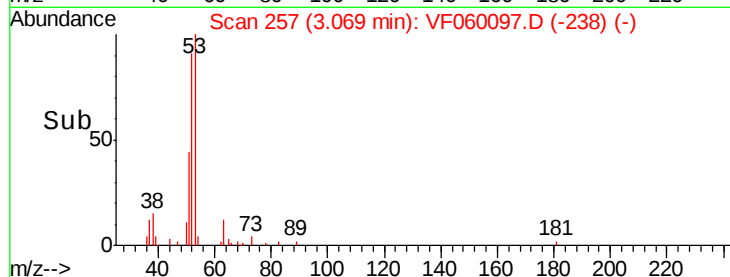
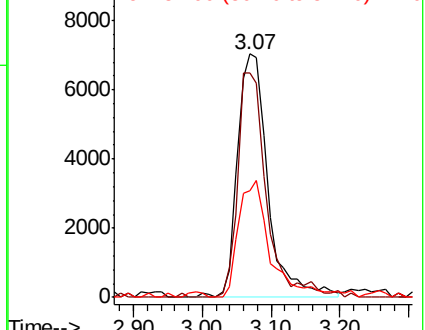
51 43.7 42.1 63.1



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: 113.89 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF060097.D

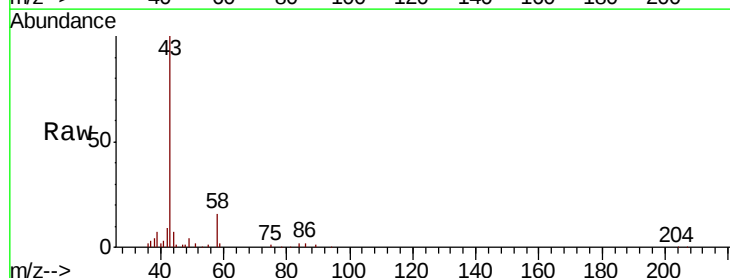
Acq: 24 Aug 2018 13:56

Tgt Ion: 43 Resp: 67483

Ion Ratio Lower Upper

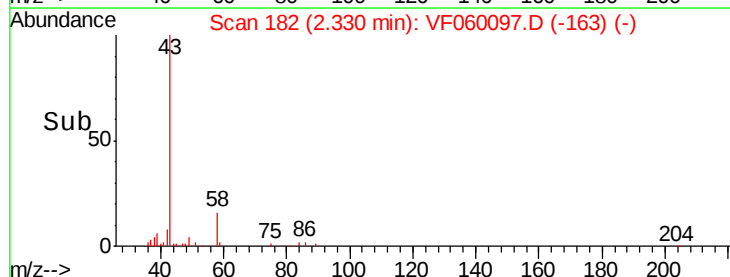
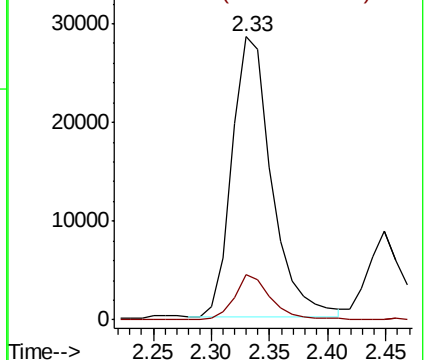
43 100

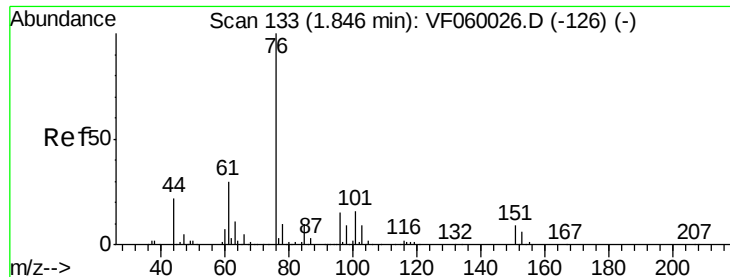
58 15.8 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

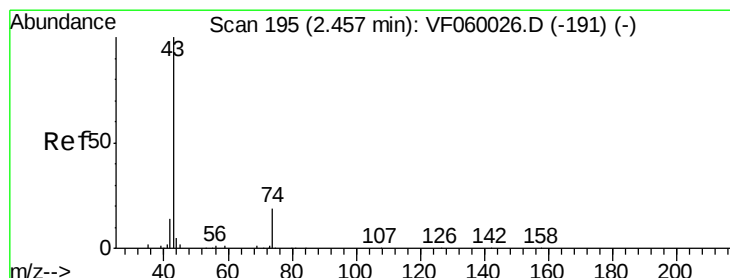
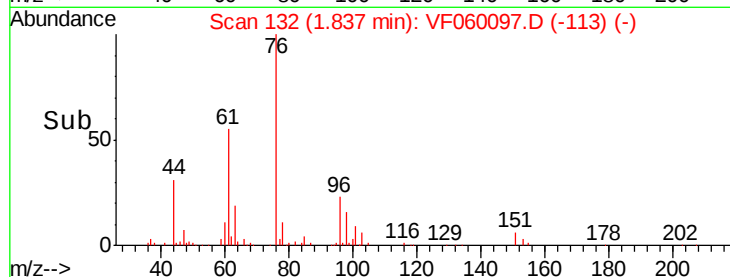
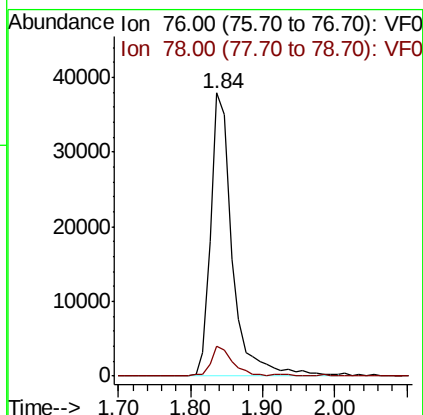
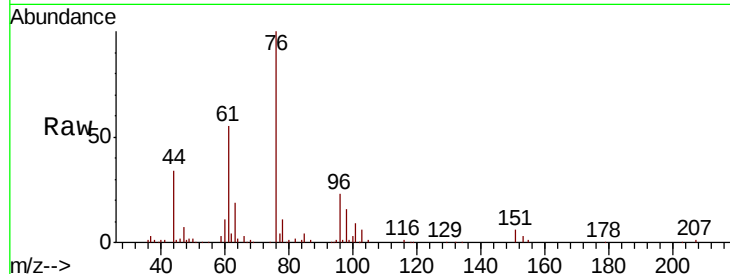




#17
Carbon Disulfide
Concen: 23.93 ug/l
RT: 1.84 min Scan# 132
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

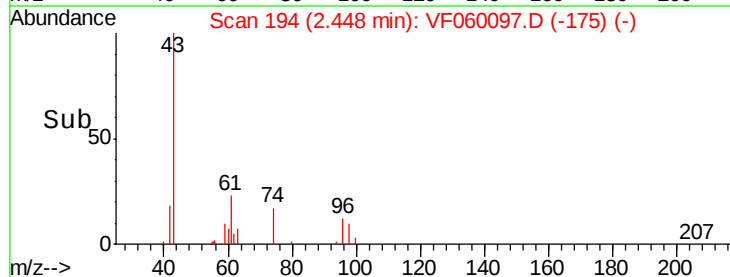
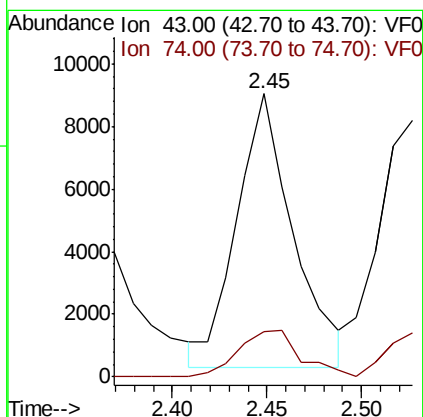
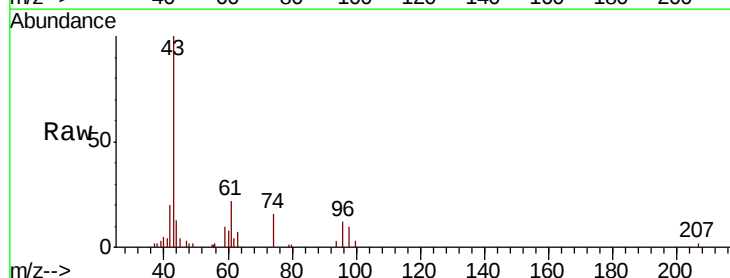
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

Tot Ion: 76 Resp: 78462
Ion Ratio Lower Upper
76 100
78 10.6 8.4 12.6



#18
Methyl Acetate
Concen: 15.09 ug/l
RT: 2.45 min Scan# 194
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion: 43 Resp: 18180
Ion Ratio Lower Upper
43 100
74 16.1 13.8 20.6



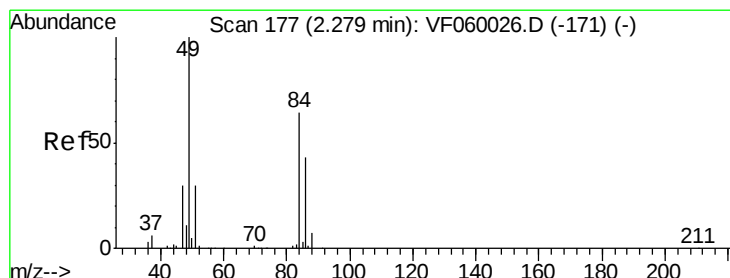
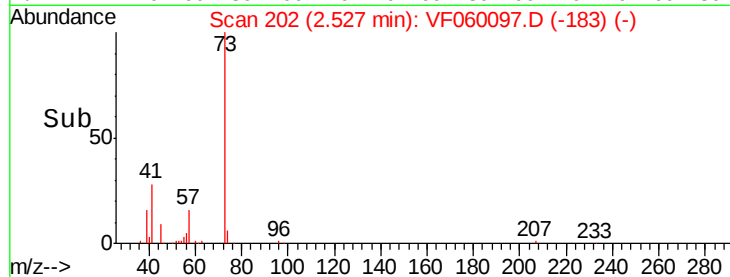
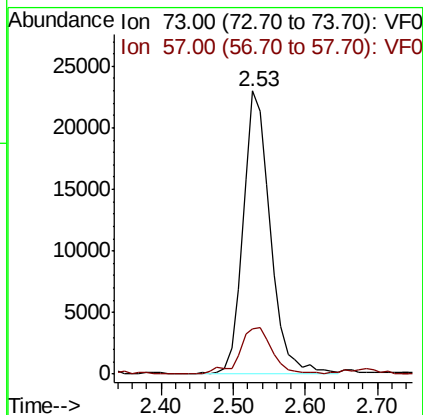
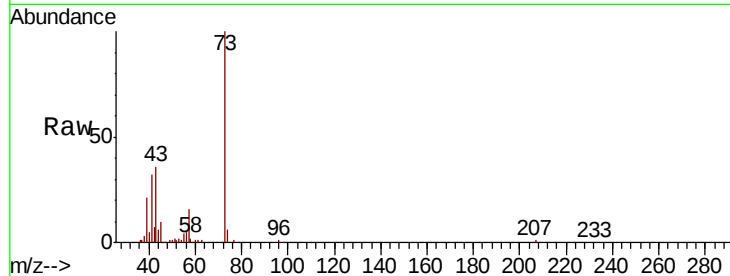


#19

Methyl tert-butyl Ether
 Concen: 18.10 ug/l
 RT: 2.53 min Scan# 202
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0824SBS01

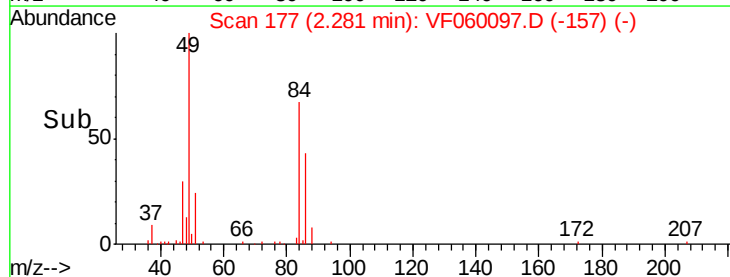
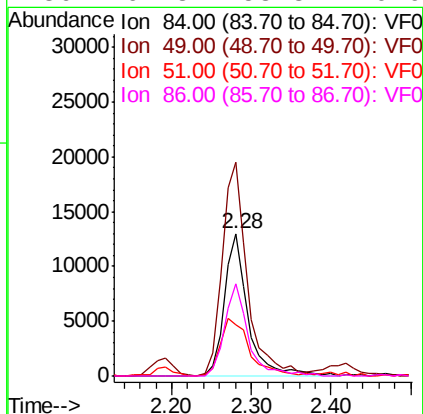
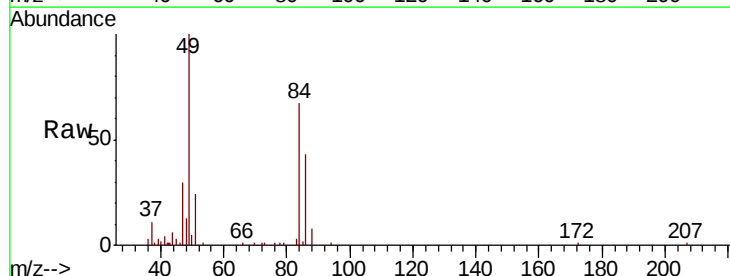
Tot Ion: 73 Resp: 60741
 Ion Ratio Lower Upper
 73 100
 57 16.2 13.7 20.5

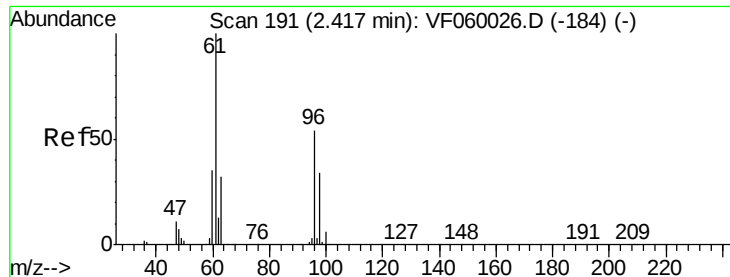


#20

Methylene Chloride
 Concen: 20.18 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. 0.00 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Tgt Ion: 84 Resp: 27117
 Ion Ratio Lower Upper
 84 100
 49 149.6 125.4 188.0
 51 35.9 38.3 57.5#
 86 64.3 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 21.51 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

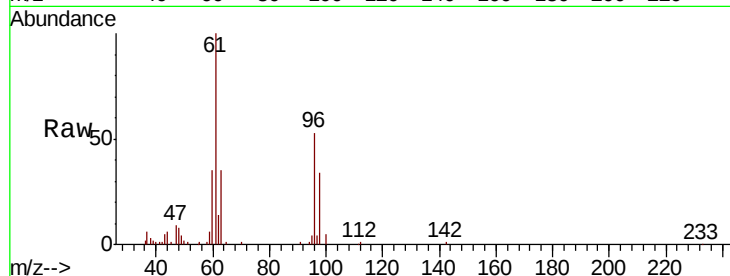
Tot Ion: 96 Resp: 25201

Ion Ratio Lower Upper

96 100

61 187.8 147.4 221.0

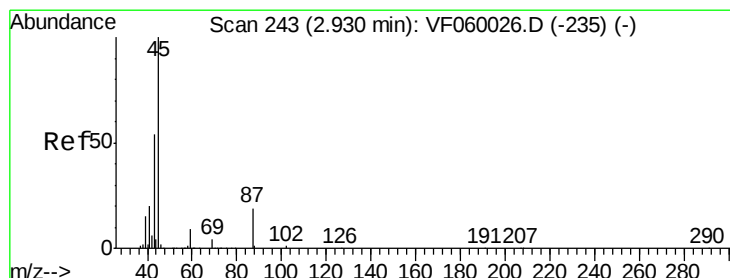
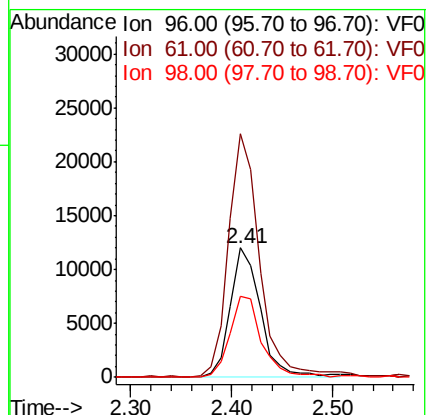
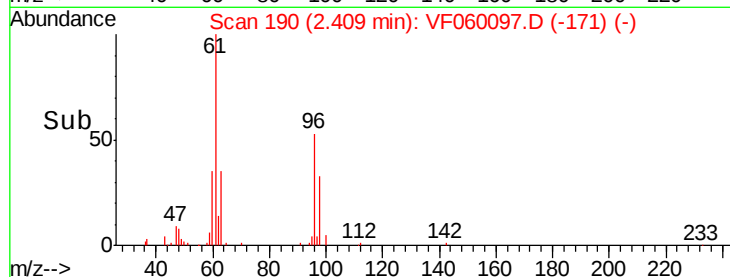
98 63.0 49.8 74.6



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



#22

Diisopropyl ether

Concen: 18.42 ug/l

RT: 2.92 min Scan# 242

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Tgt Ion: 45 Resp: 76724

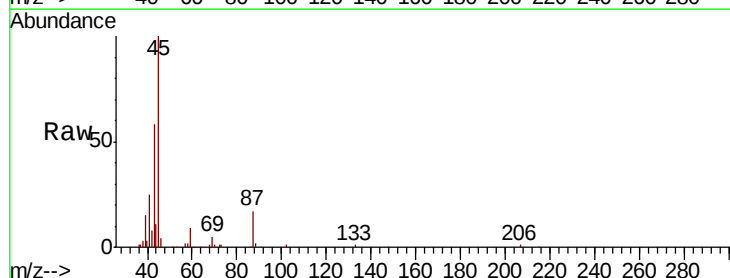
Ion Ratio Lower Upper

45 100

43 57.5 43.4 65.2

87 17.4 15.4 23.2

59 8.5 7.5 11.3

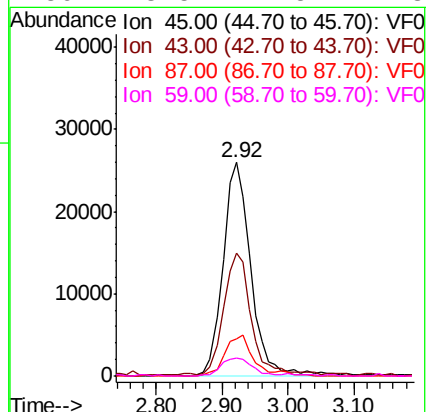
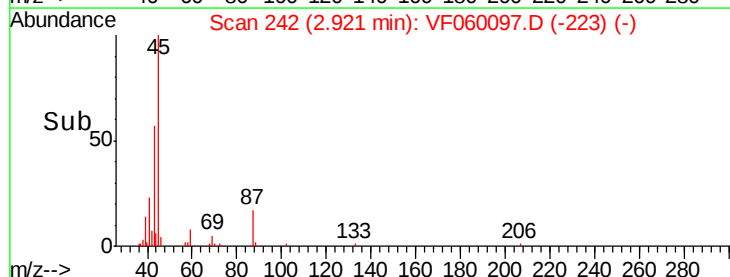


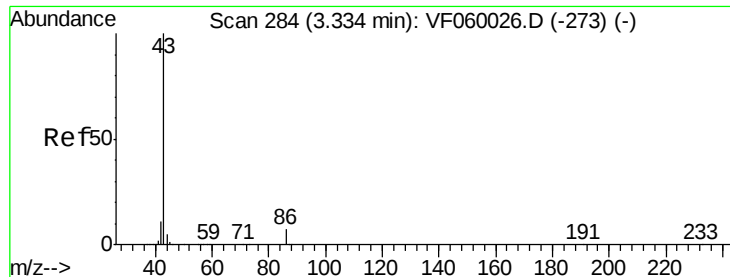
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 100.57 ug/l

RT: 3.33 min Scan# 283

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

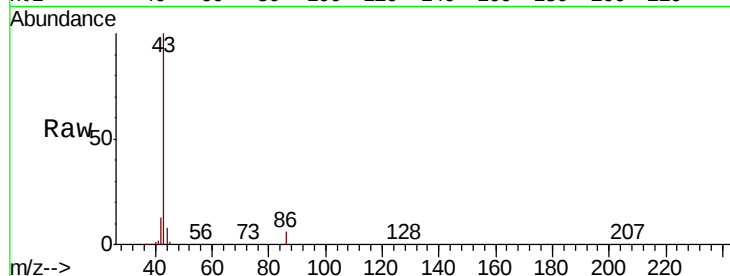
VF0824SBS01

Tot Ion: 43 Resp: 221891

Ion Ratio Lower Upper

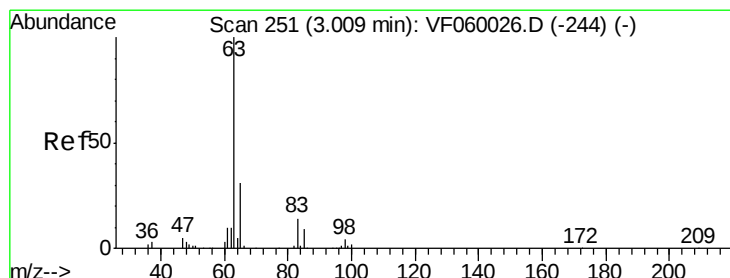
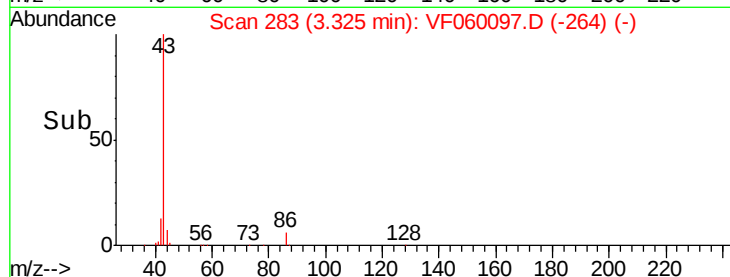
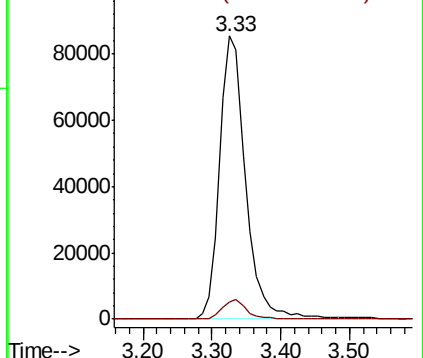
43 100

86 6.0 5.6 8.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 23.16 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

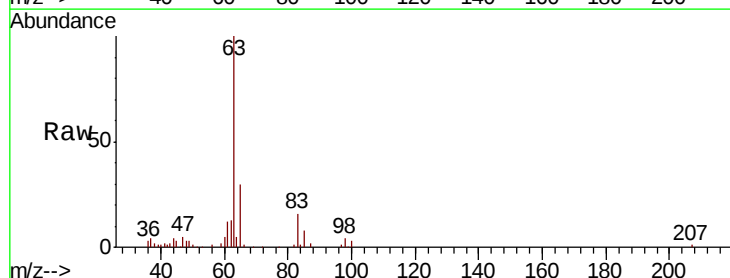
Tgt Ion: 63 Resp: 59572

Ion Ratio Lower Upper

63 100

98 3.5 2.1 6.5

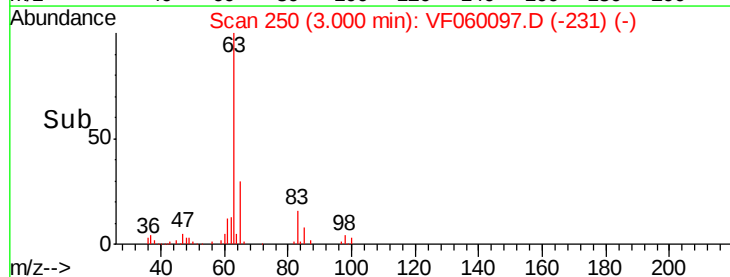
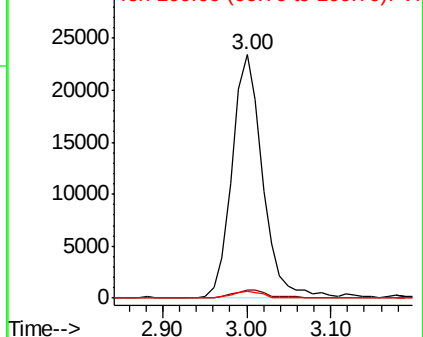
100 3.0 1.1 3.3

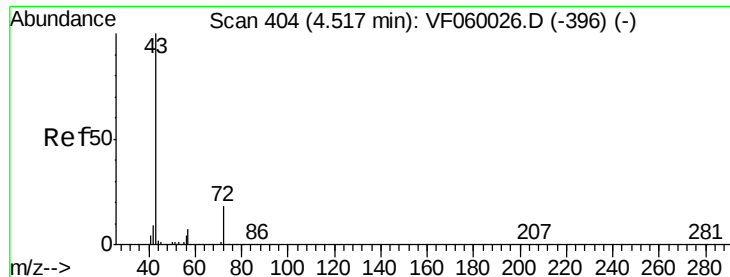


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 108.15 ug/l

RT: 4.50 min Scan# 402

Delta R.T. -0.02 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

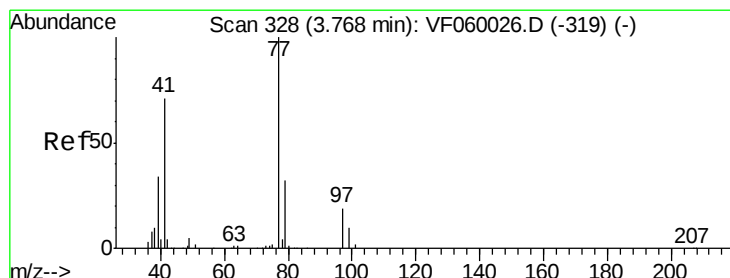
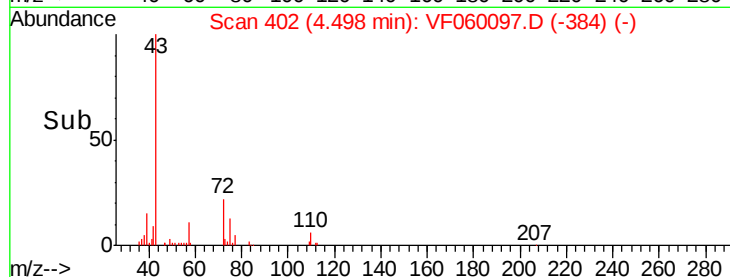
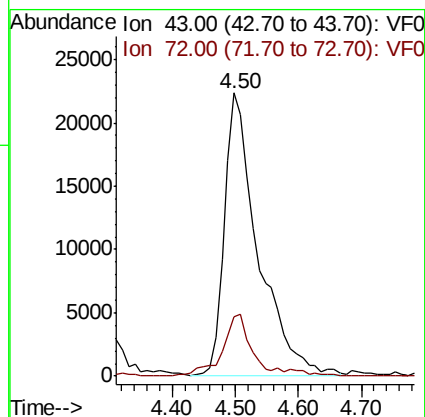
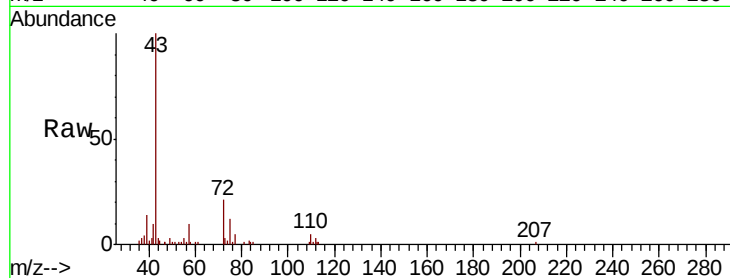
VF0824SBS01

Tot Ion: 43 Resp: 83239

Ion Ratio Lower Upper

43 100

72 20.8 15.0 22.6



#26

2,2-Dichloropropane

Concen: 24.09 ug/l

RT: 3.76 min Scan# 327

Delta R.T. -0.01 min

Lab File: VF060097.D

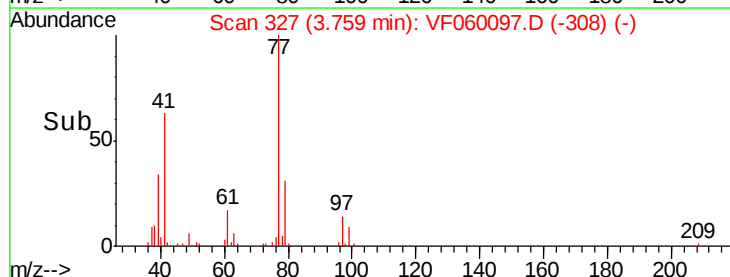
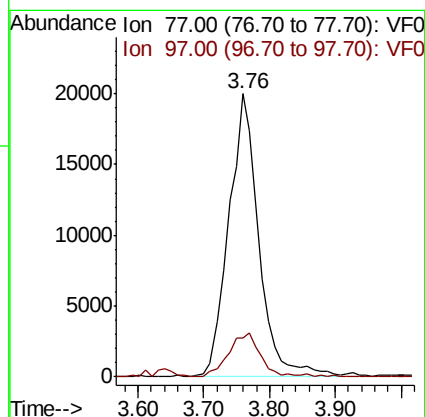
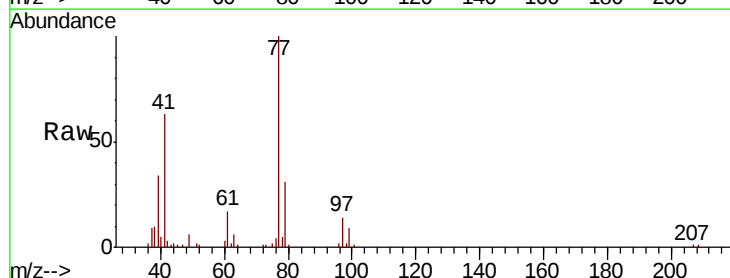
Acq: 24 Aug 2018 13:56

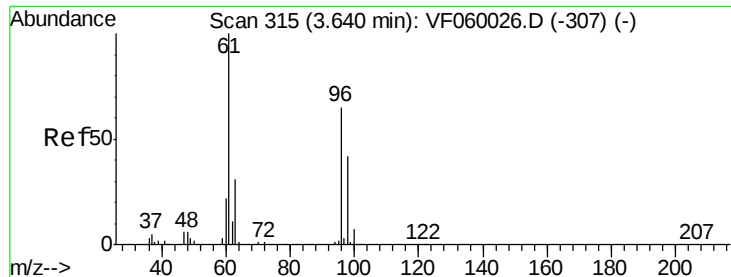
Tgt Ion: 77 Resp: 64114

Ion Ratio Lower Upper

77 100

97 13.6 9.7 29.1



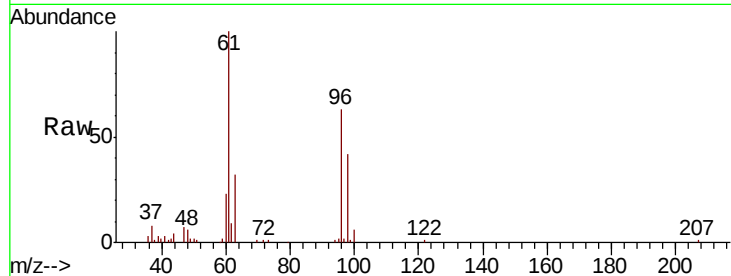


#27

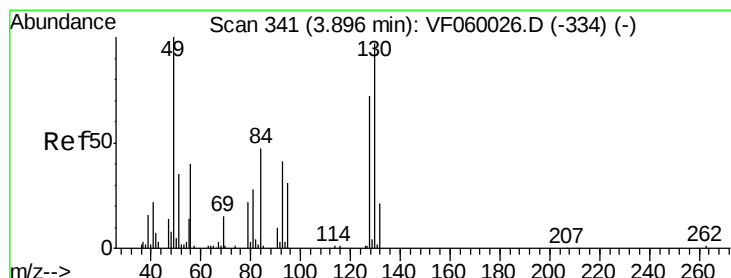
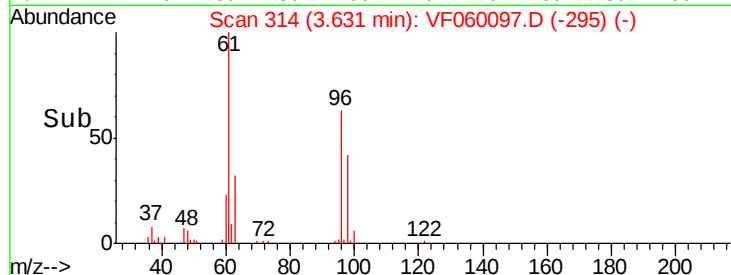
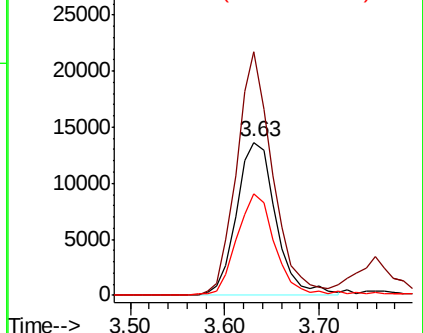
cis-1,2-Dichloroethene
 Concen: 23.75 ug/l
 RT: 3.63 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0824SBS01

Tot Ion	96	Resp	39441
Ion	Ratio	Lower	Upper
96	100		
61	158.7	0.0	307.6
98	66.0	0.0	128.4



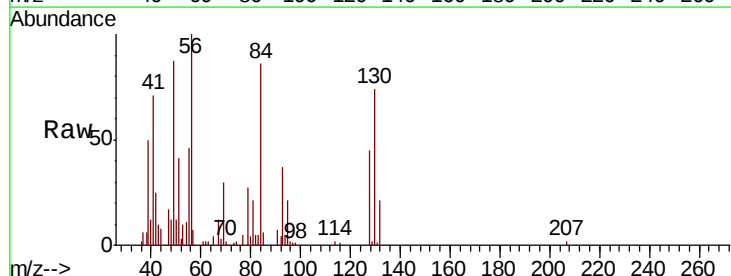
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



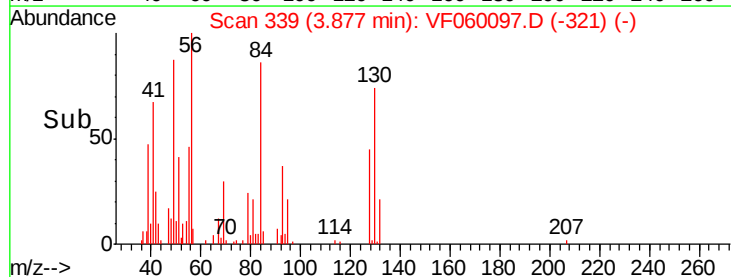
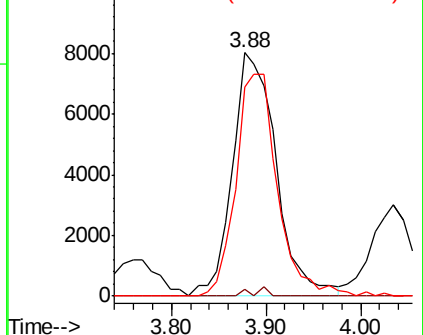
#28

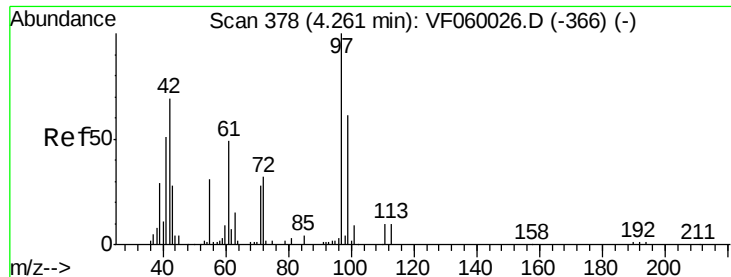
Bromochloromethane
 Concen: 23.68 ug/l
 RT: 3.88 min Scan# 339
 Delta R.T. -0.02 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Tgt Ion	49	Resp	25716
Ion	Ratio	Lower	Upper
49	100		
129	2.9	0.0	7.4
130	87.3	78.0	117.0



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

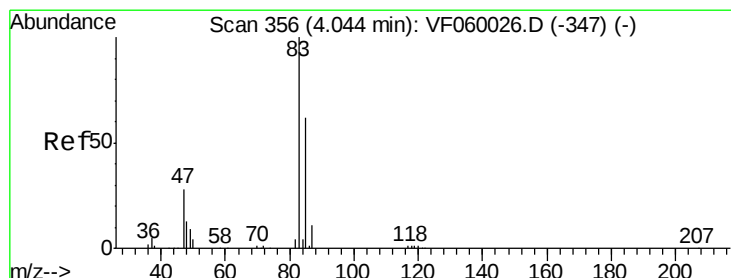
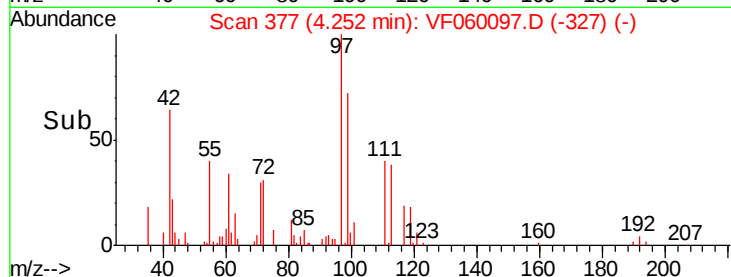
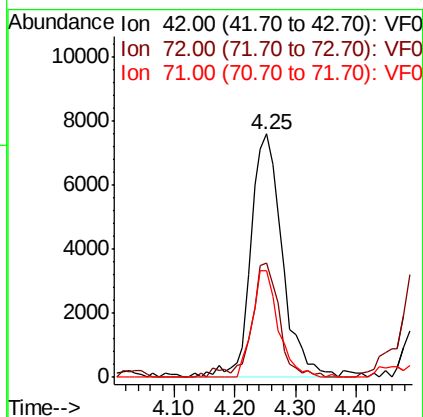
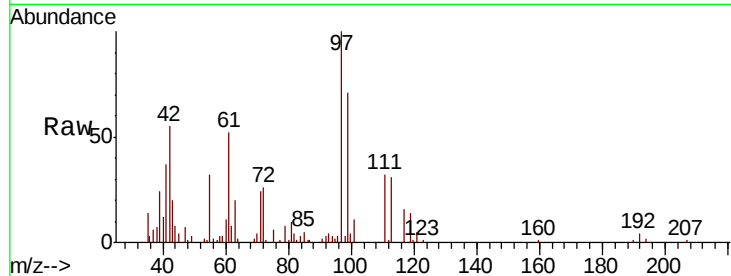




#29
Tetrahydrofuran
Concen: 95.25 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

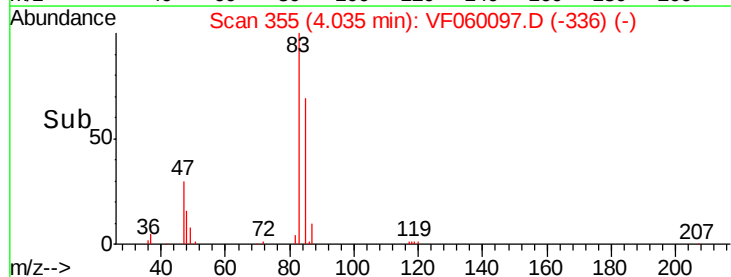
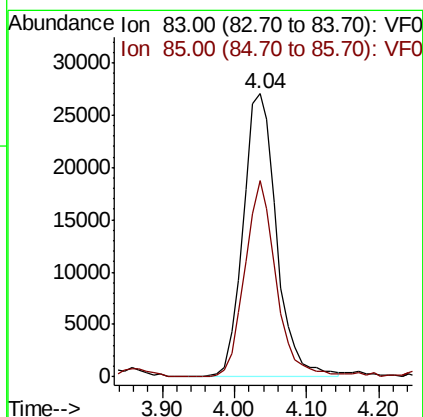
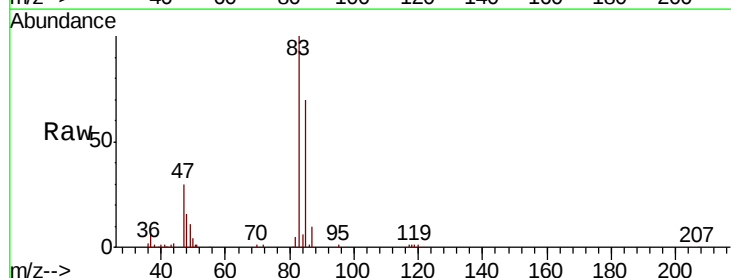
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

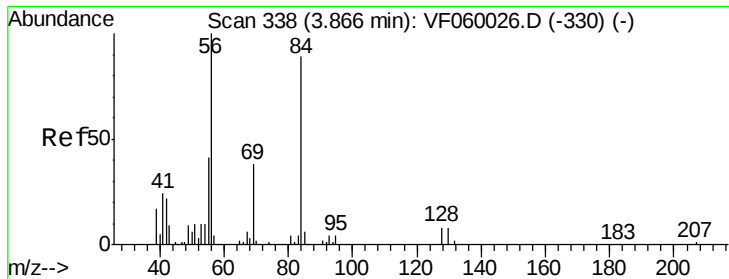
Tot Ion: 42 Resp: 27678
Ion Ratio Lower Upper
42 100
72 39.4 31.4 47.2
71 36.4 29.7 44.5



#30
Chloroform
Concen: 24.22 ug/l
RT: 4.04 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion: 83 Resp: 87466
Ion Ratio Lower Upper
83 100
85 69.6 49.5 74.3

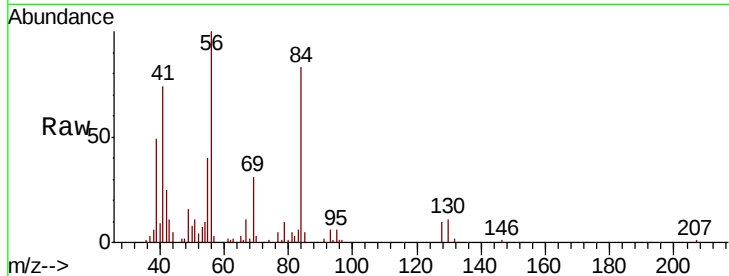




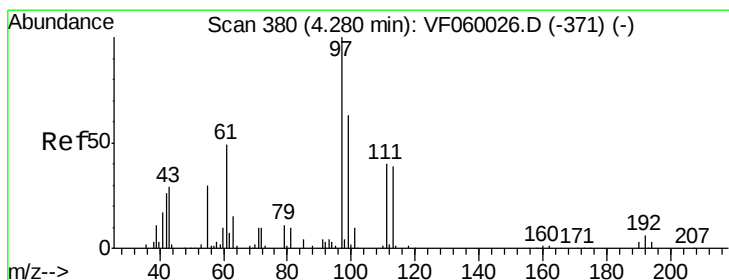
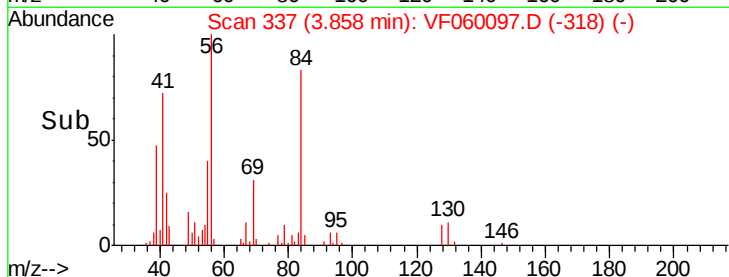
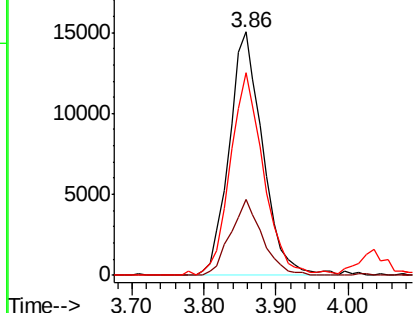
#31
Cyclohexane
Concen: 24.85 ug/l
RT: 3.86 min Scan# 337
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

Tot Ion: 56 Resp: 48713
Ion Ratio Lower Upper
56 100
69 31.2 30.4 45.6
84 83.2 71.4 107.2

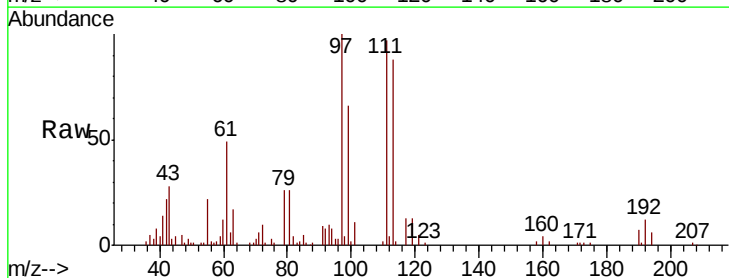


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

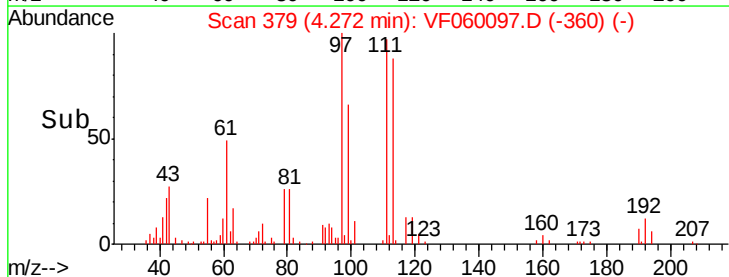
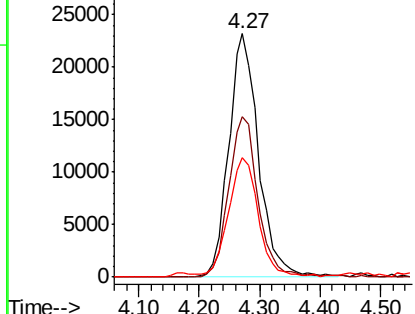


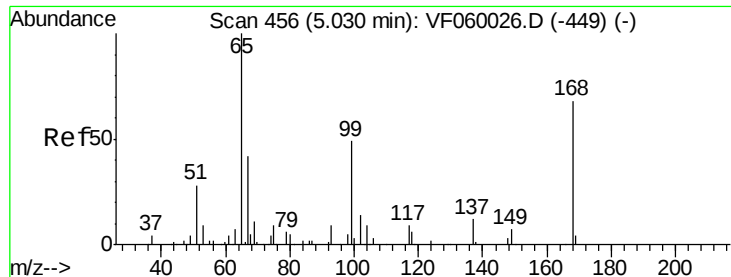
#32
1,1,1-Trichloroethane
Concen: 25.66 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion: 97 Resp: 79339
Ion Ratio Lower Upper
97 100
99 65.9 50.3 75.5
61 48.8 40.3 60.5



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: 48.25 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

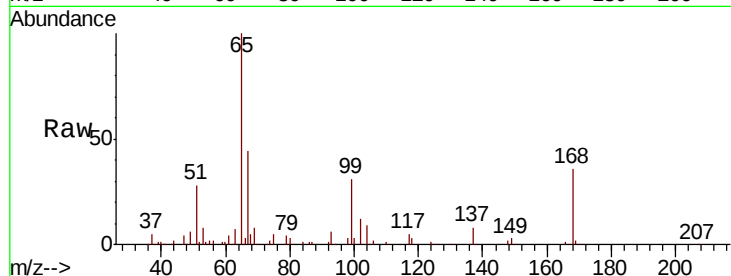
VF0824SBS01

Tot Ion: 65 Resp: 108779

Ion Ratio Lower Upper

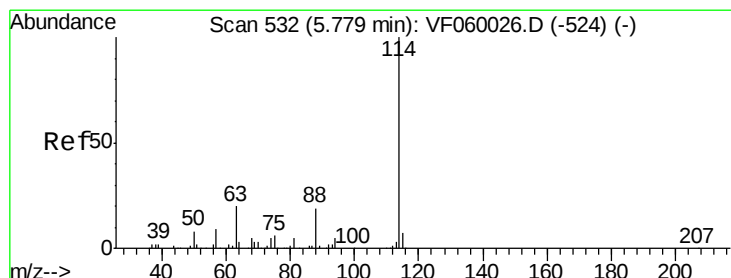
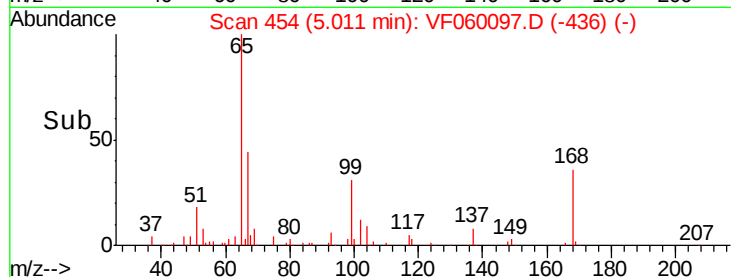
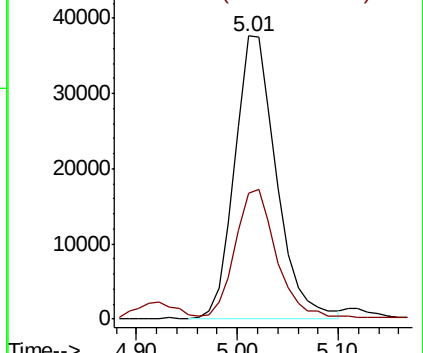
65 100

67 44.4 0.0 92.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.02 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

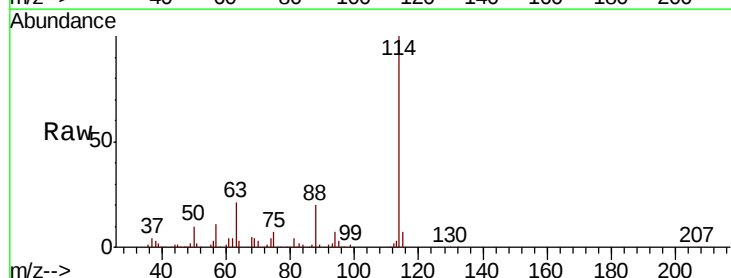
Tgt Ion: 114 Resp: 261966

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.4

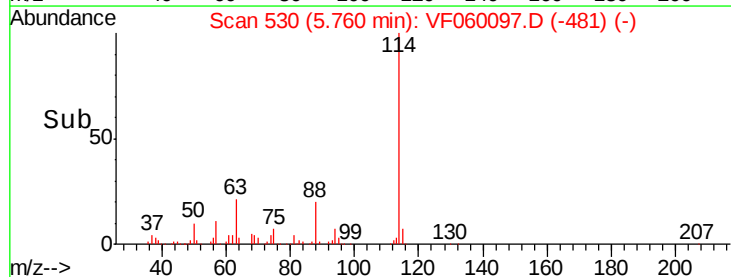
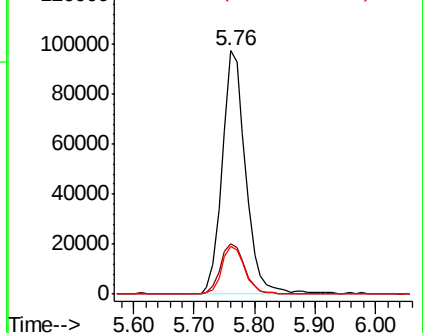
88 19.8 0.0 38.6

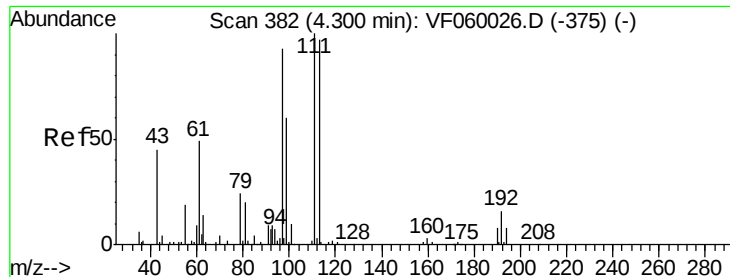


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 50.81 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

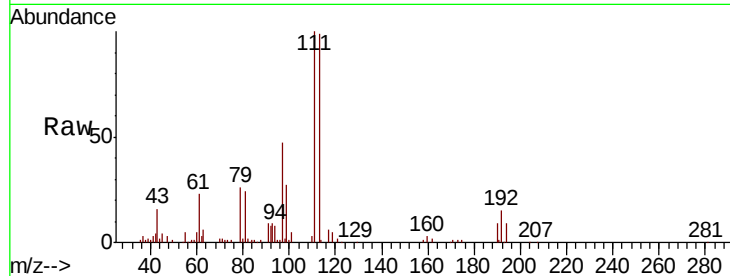
Tot Ion:113 Resp: 104527

Ion Ratio Lower Upper

113 100

111 101.3 82.7 124.1

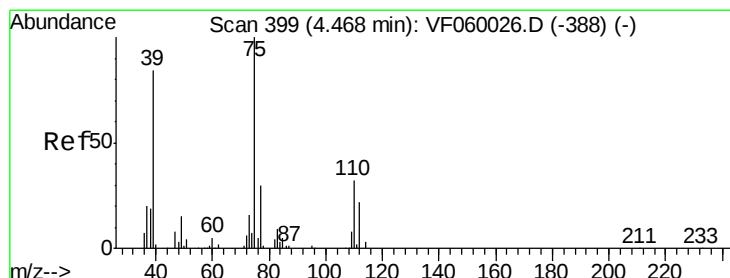
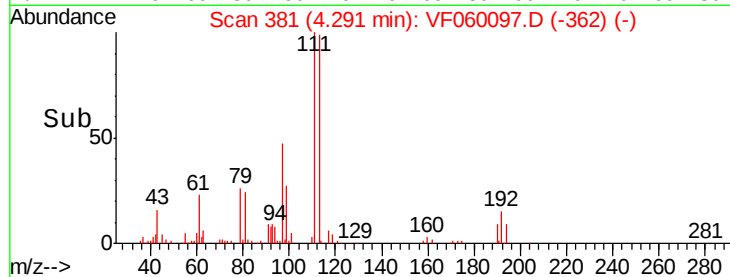
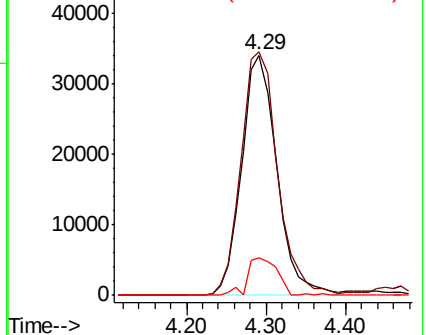
192 15.4 13.0 19.4



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 21.27 ug/l

RT: 4.46 min Scan# 398

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

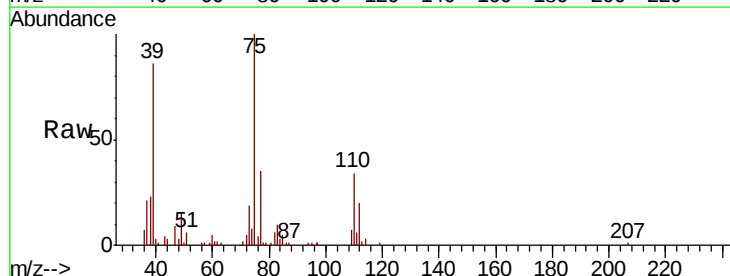
Tgt Ion: 75 Resp: 52362

Ion Ratio Lower Upper

75 100

110 33.7 16.0 47.9

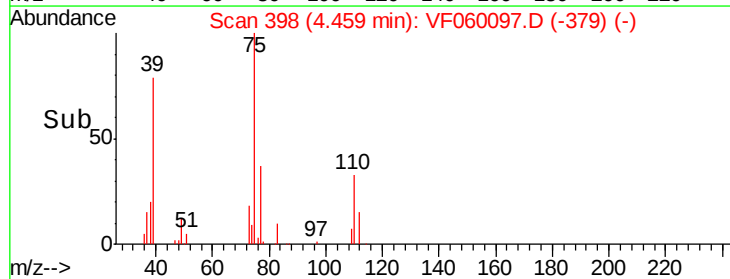
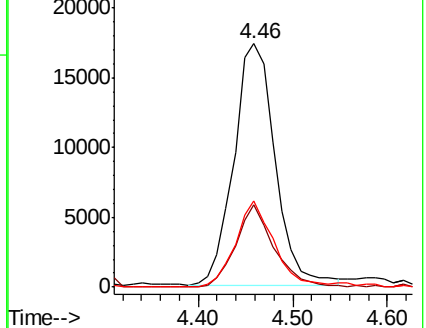
77 35.4 24.1 36.1

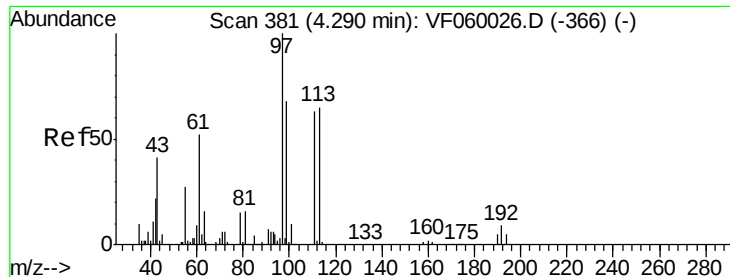


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

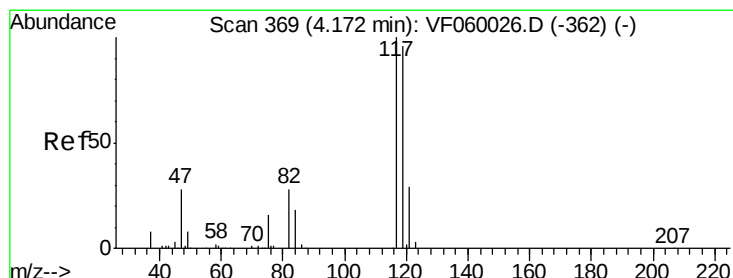
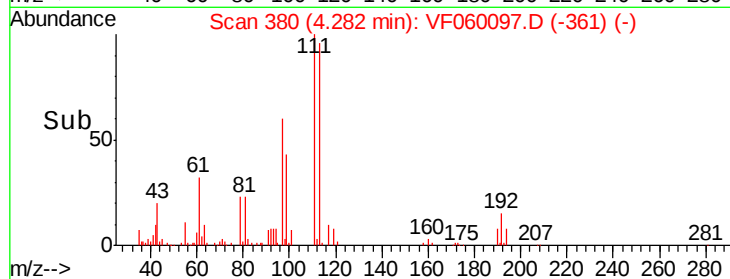
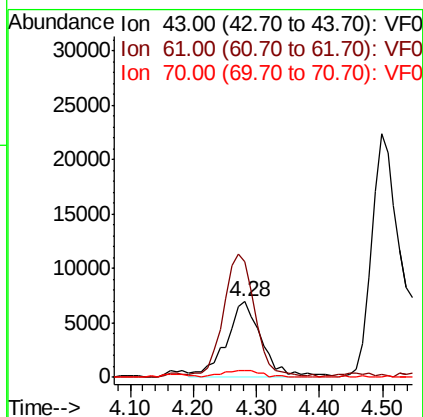
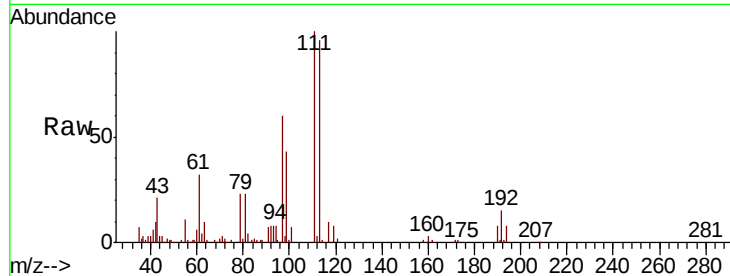




#37
Ethyl Acetate
Concen: 18.55 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

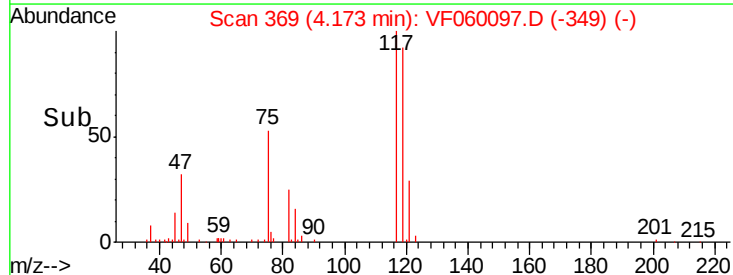
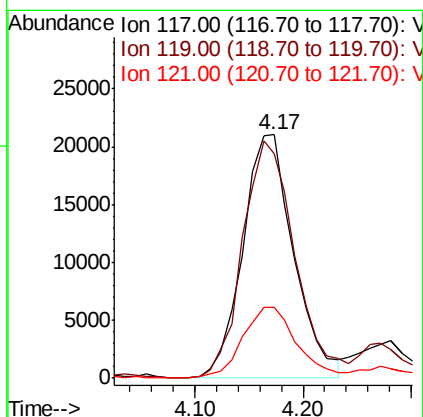
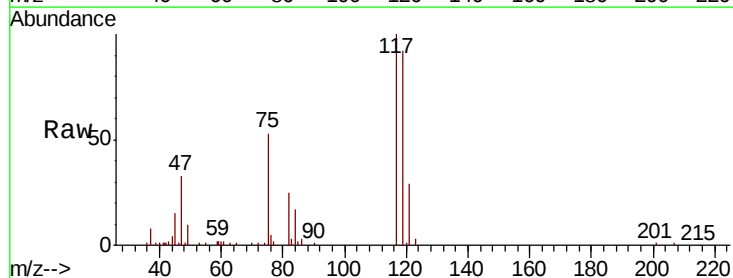
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

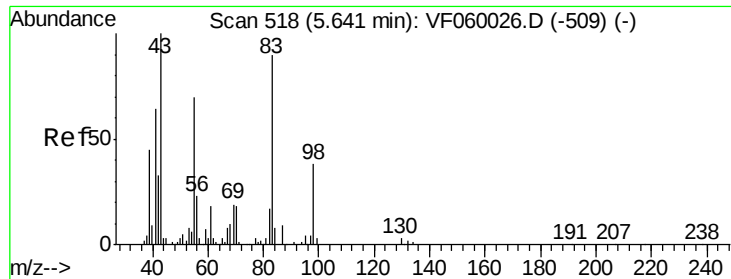
Tot Ion: 43 Resp: 27311
Ion Ratio Lower Upper
43 100
61 153.5 101.5 152.3#
70 9.8 6.4 9.6#



#38
Carbon Tetrachloride
Concen: 24.33 ug/l
RT: 4.17 min Scan# 369
Delta R.T. 0.00 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion: 117 Resp: 69360
Ion Ratio Lower Upper
117 100
119 92.0 76.5 114.7
121 29.1 23.0 34.6

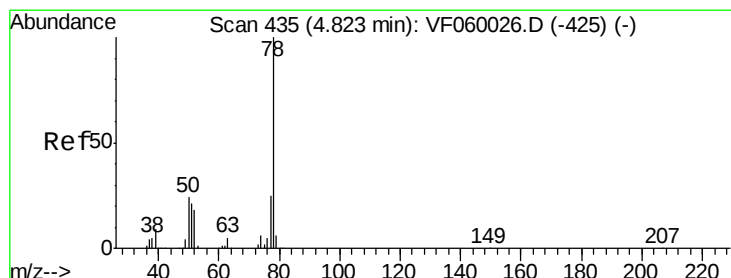
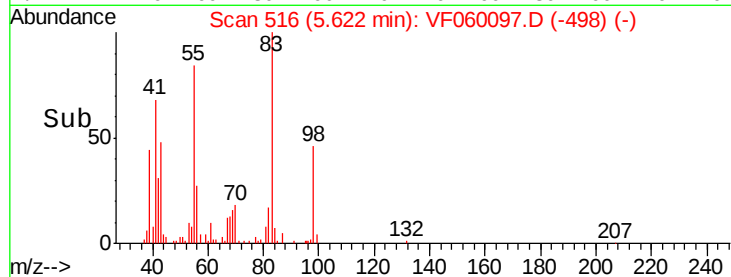
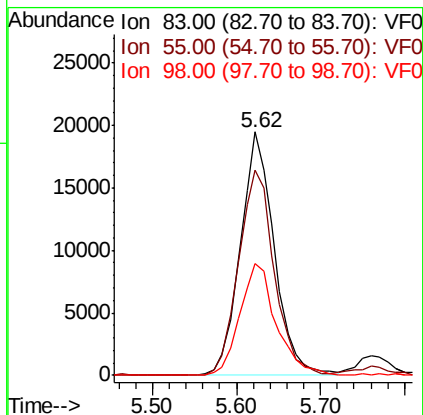
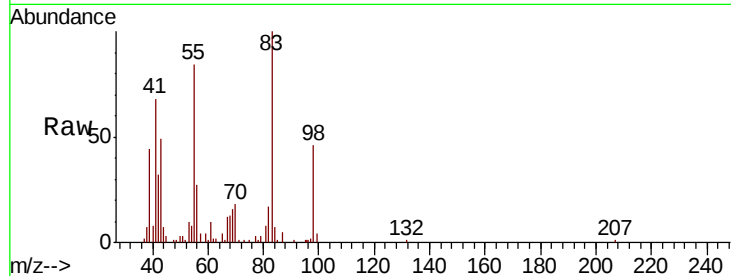




#39
Methvlcvclohexane
Concen: 23.73 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.02 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

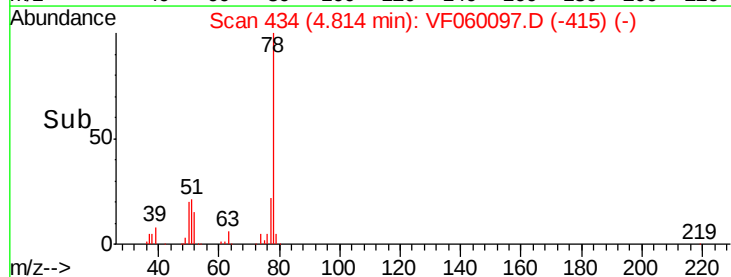
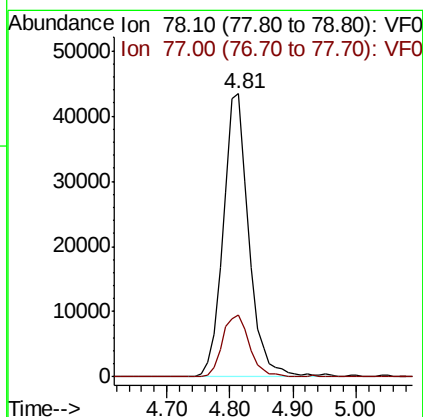
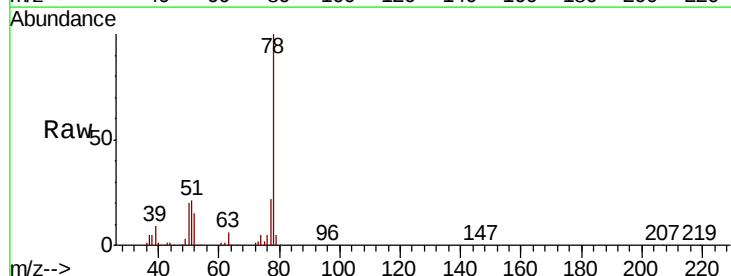
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

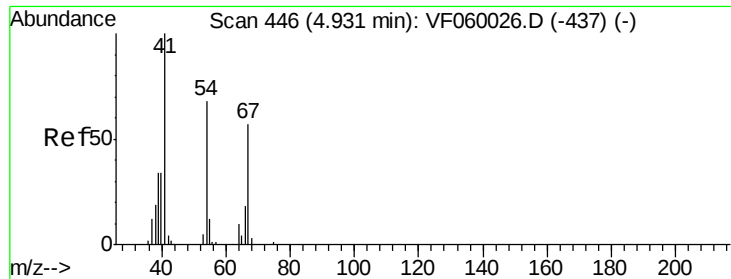
Tot Ion: 83 Resp: 54768
Ion Ratio Lower Upper
83 100
55 84.5 62.7 94.1
98 45.9 33.8 50.8



#40
Benzene
Concen: 22.78 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion: 78 Resp: 122489
Ion Ratio Lower Upper
78 100
77 21.7 19.8 29.6

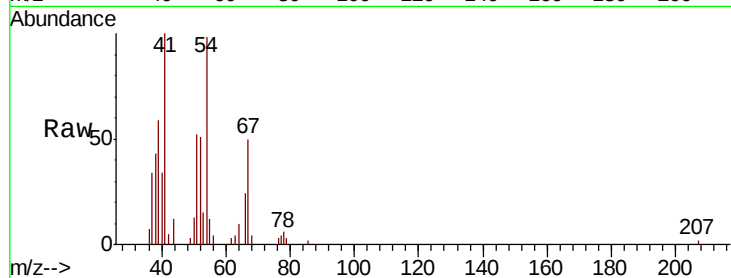




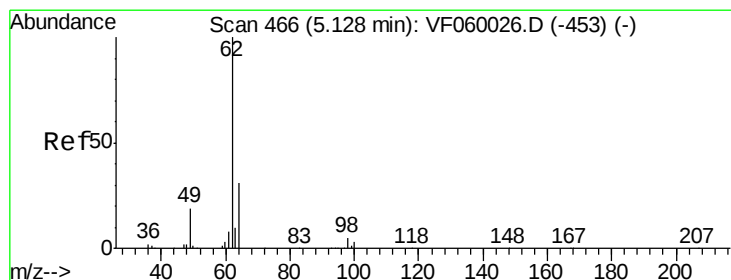
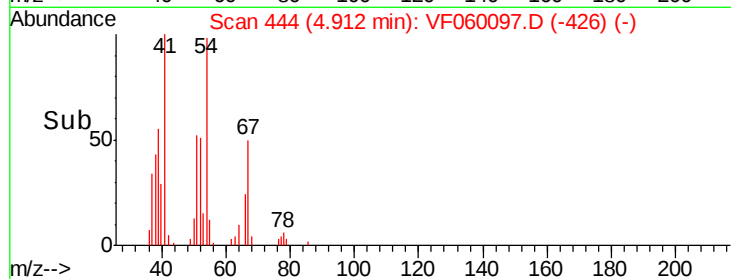
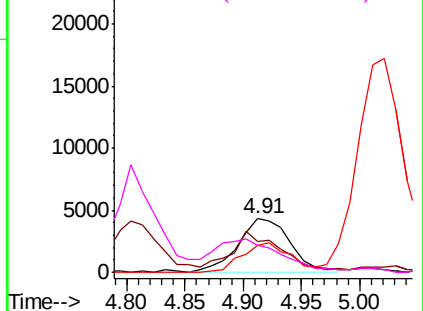
#41
Methacrylonitrile
Concen: 17.86 ug/l
RT: 4.91 min Scan# 444
Delta R.T. -0.02 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

Tot Ion:	41	Resp:	13301
Ion	Ratio	Lower	Upper
41	100		
39	58.8	52.9	79.3
67	49.8	45.3	67.9
52	51.5	34.8	52.2

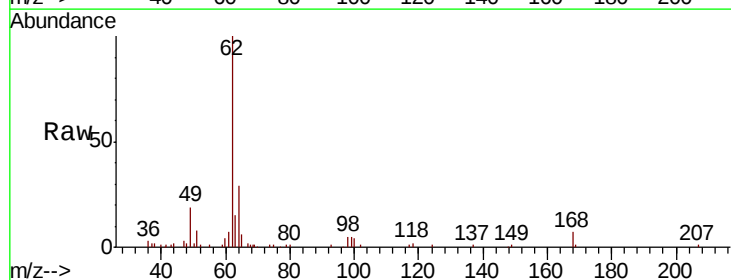


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

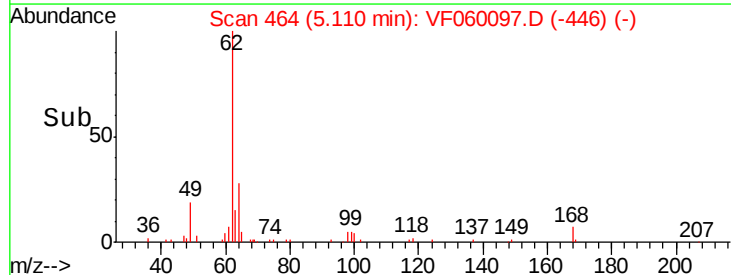
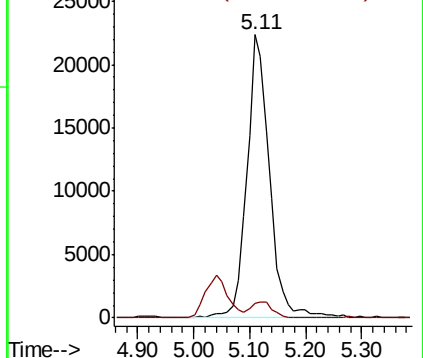


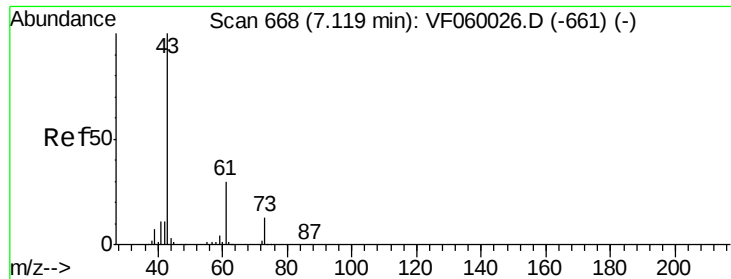
#42
1,2-Dichloroethane
Concen: 21.61 ug/l
RT: 5.11 min Scan# 464
Delta R.T. -0.02 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion:	62	Resp:	62328
Ion	Ratio	Lower	Upper
62	100		
98	5.2	0.0	11.2



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



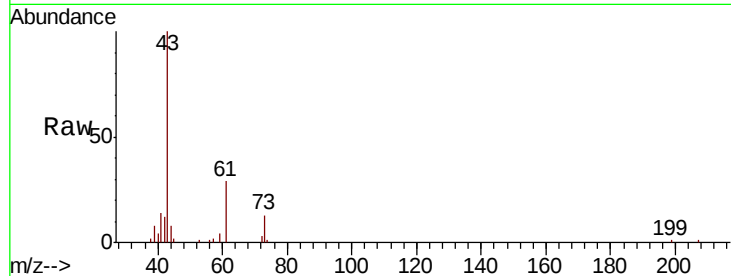


#43

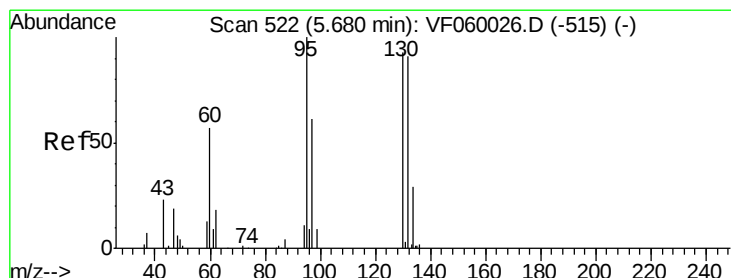
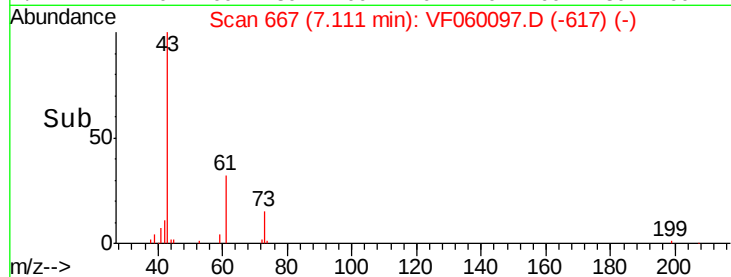
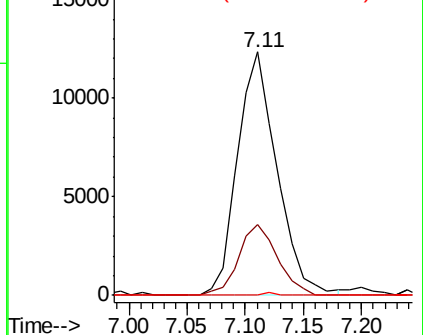
Isopropyl Acetate
 Concen: 15.64 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0824SBS01

Tot Ion: 43 Resp: 28985
 Ion Ratio Lower Upper
 43 100
 61 29.2 23.8 35.6
 87 0.0 0.2 0.4#



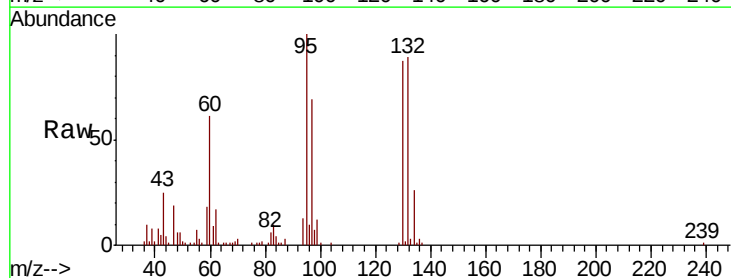
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



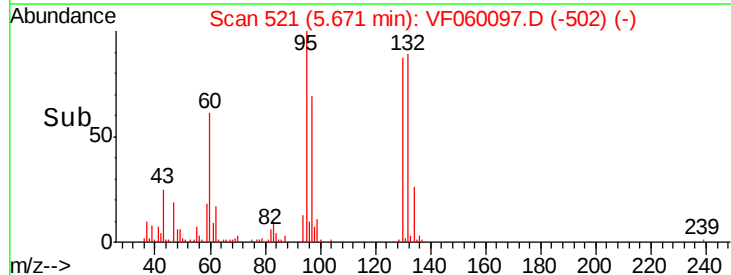
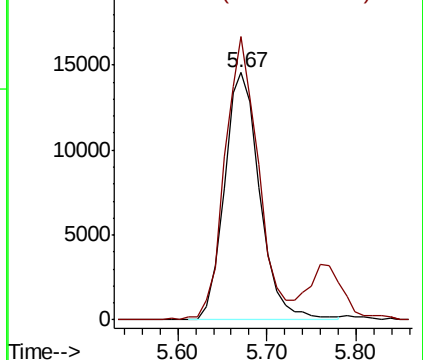
#44

Trichloroethene
 Concen: 22.77 ug/l
 RT: 5.67 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Tgt Ion: 130 Resp: 40487
 Ion Ratio Lower Upper
 130 100
 95 114.5 0.0 215.8



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 21.54 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

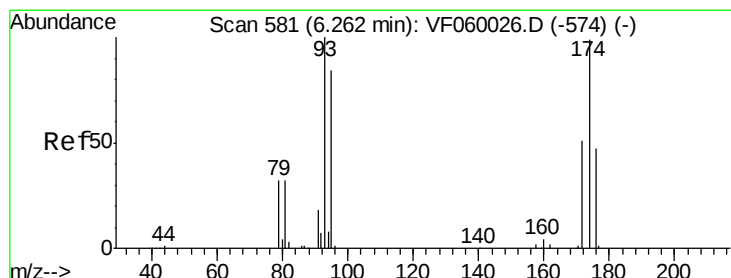
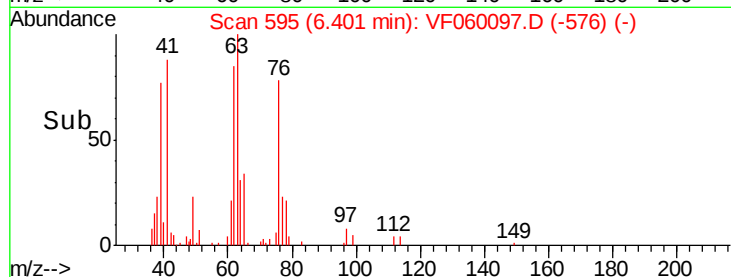
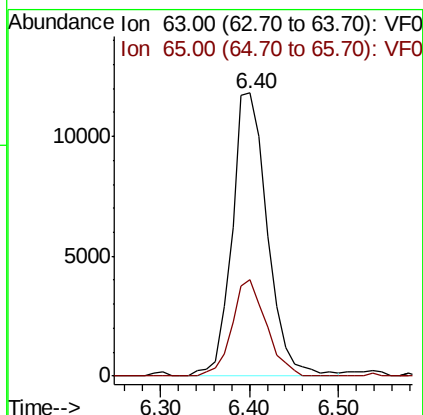
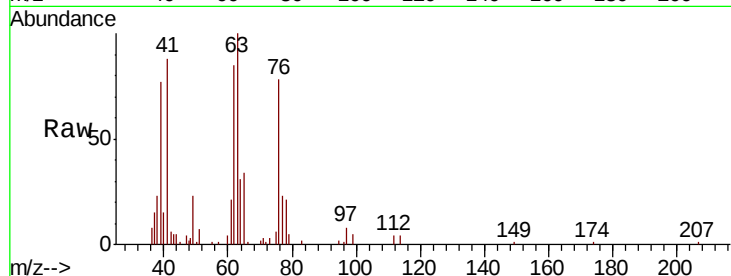
VF0824SBS01

Tot Ion: 63 Resp: 32766

Ion Ratio Lower Upper

63 100

65 34.0 23.8 35.6



#46

Dibromomethane

Concen: 21.01 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

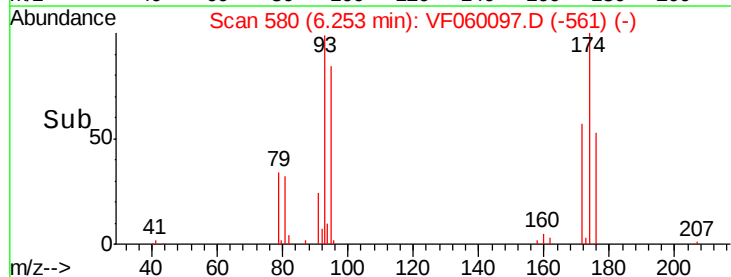
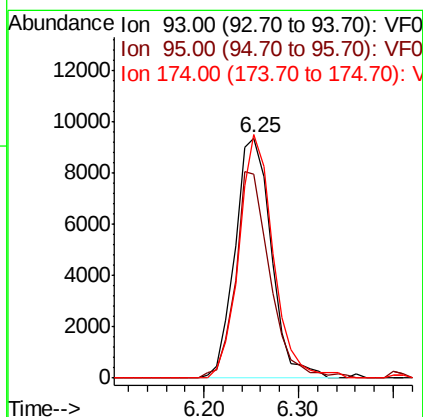
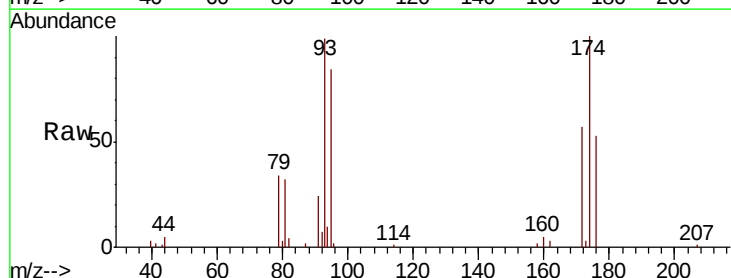
Tgt Ion: 93 Resp: 25014

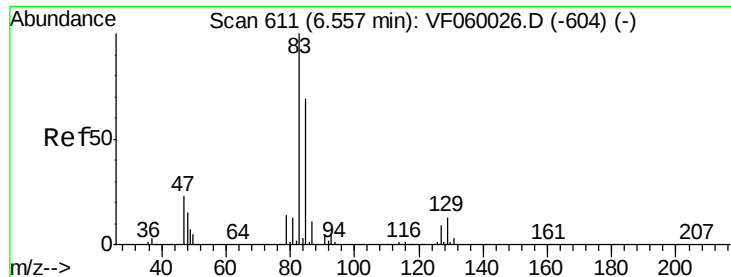
Ion Ratio Lower Upper

93 100

95 86.5 67.1 100.7

174 101.5 79.0 118.4





#47

Bromodichloromethane

Concen: 22.61 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

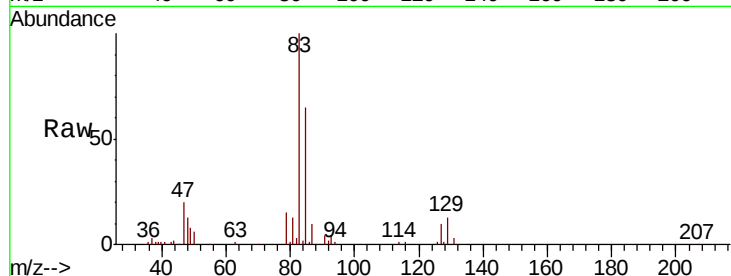
Tot Ion: 83 Resp: 65007

Ion Ratio Lower Upper

83 100

85 65.3 55.2 82.8

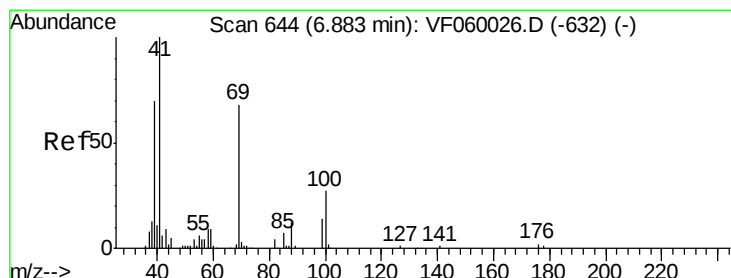
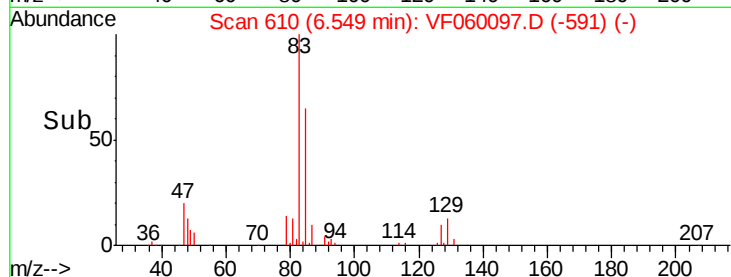
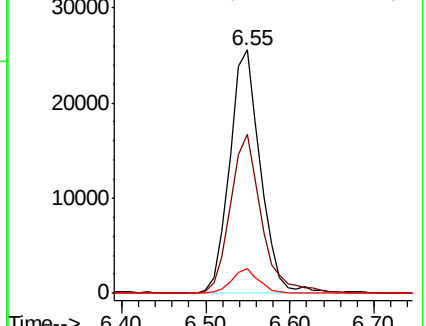
127 9.9 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 17.73 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

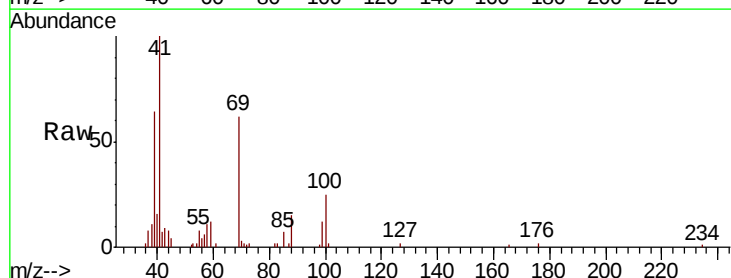
Tgt Ion: 41 Resp: 21737

Ion Ratio Lower Upper

41 100

69 61.8 54.6 81.8

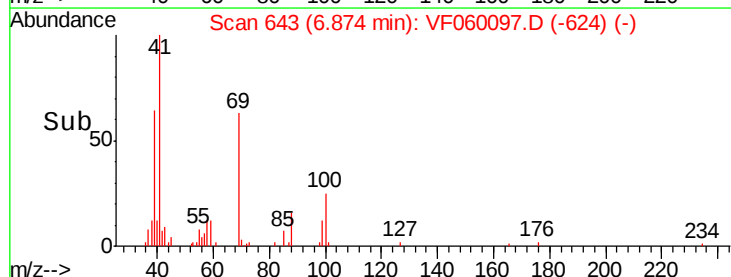
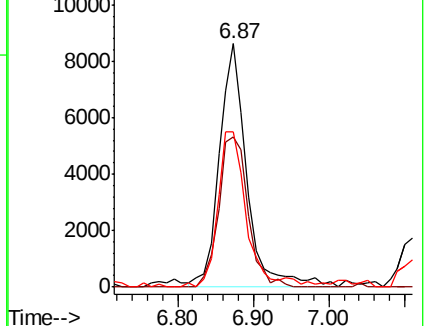
39 63.7 56.5 84.7

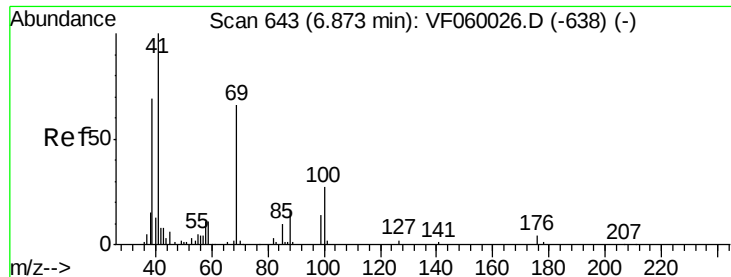


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

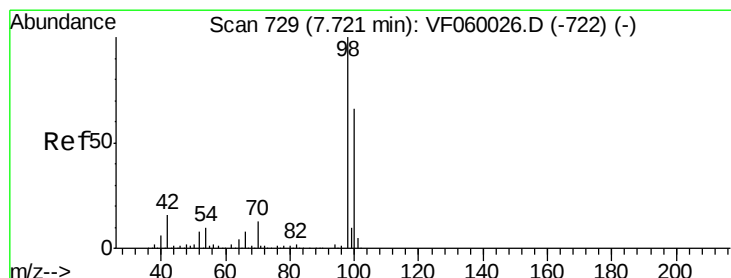
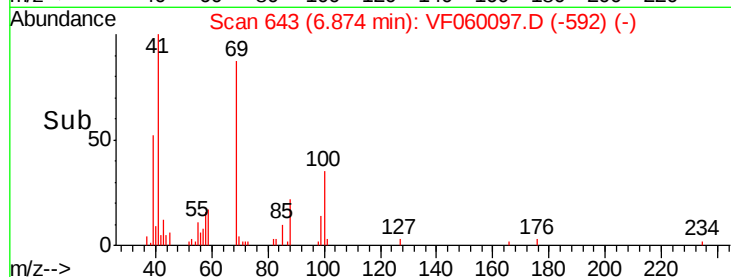
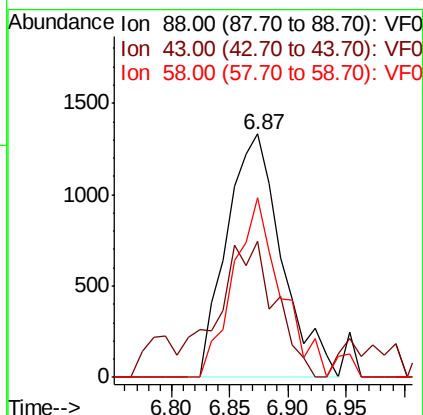
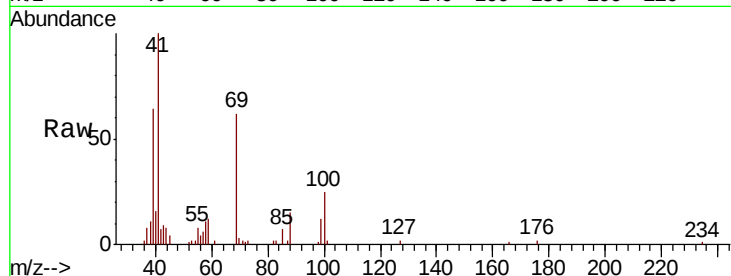




#49
1,4-Dioxane
Concen: 370.05 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.00 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

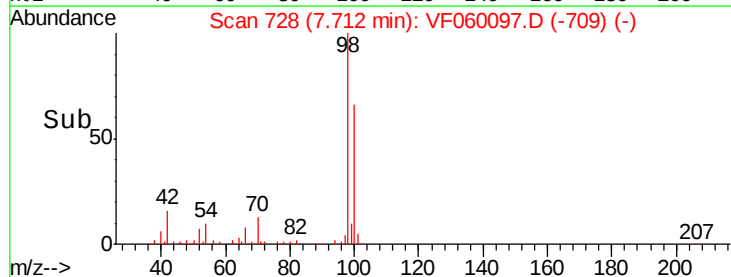
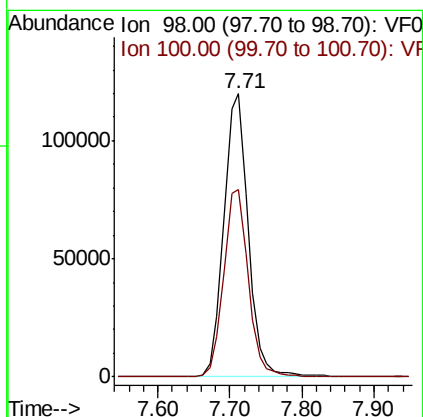
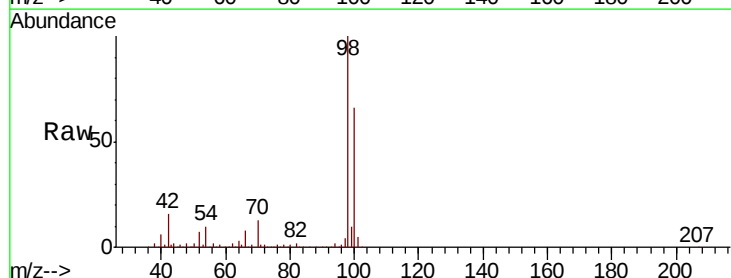
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

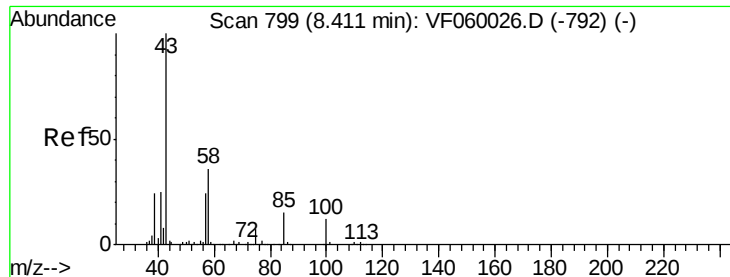
Tot Ion: 88 Resp: 4356
Ion Ratio Lower Upper
88 100
43 55.7 46.5 69.7
58 73.7 54.8 82.2



#50
Toluene-d8
Concen: 48.24 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion: 98 Resp: 281846
Ion Ratio Lower Upper
98 100
100 66.3 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 101.58 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

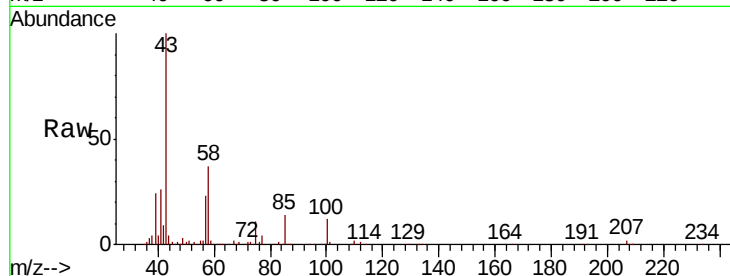
VF0824SBS01

Tot Ion: 43 Resp: 162545

Ion Ratio Lower Upper

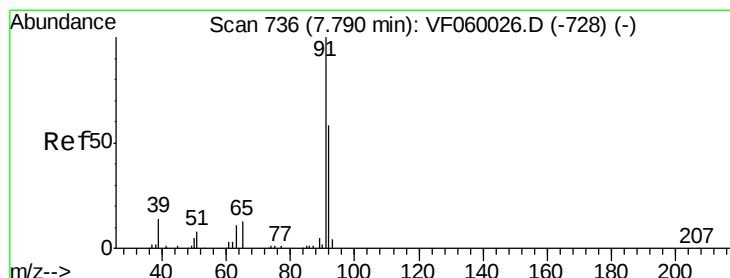
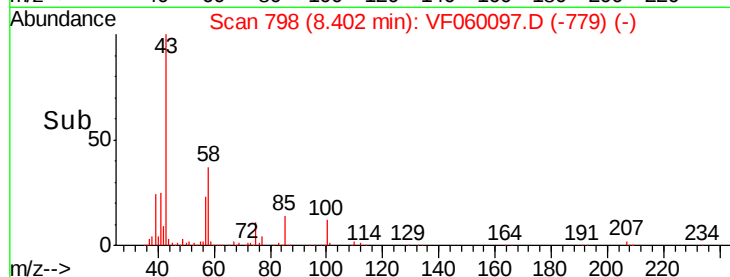
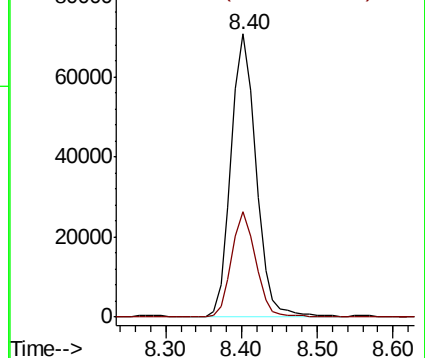
43 100

58 37.4 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 24.11 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060097.D

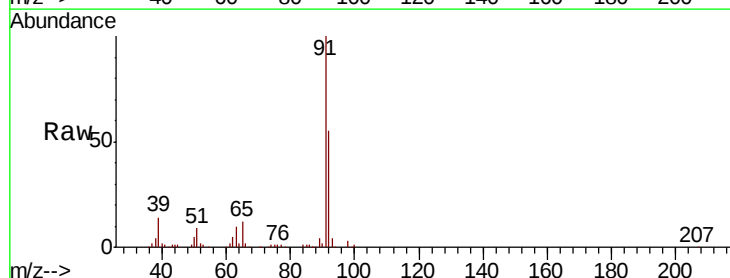
Acq: 24 Aug 2018 13:56

Tgt Ion: 92 Resp: 92187

Ion Ratio Lower Upper

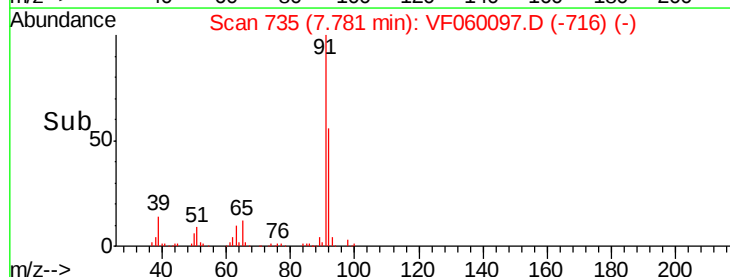
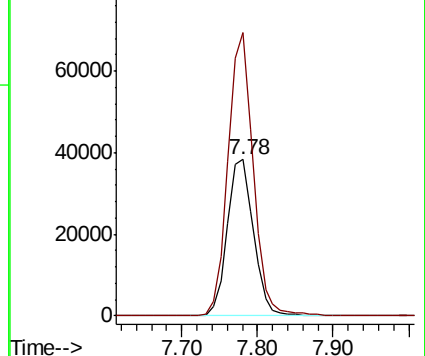
92 100

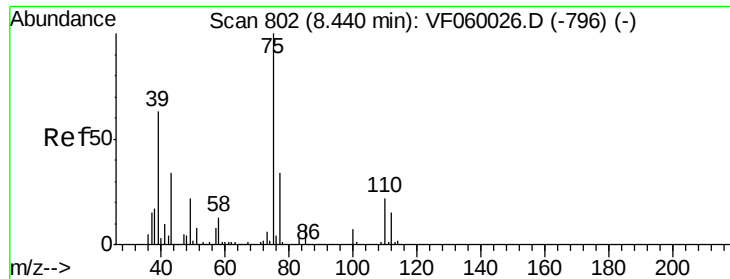
91 180.8 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.55 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.02 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

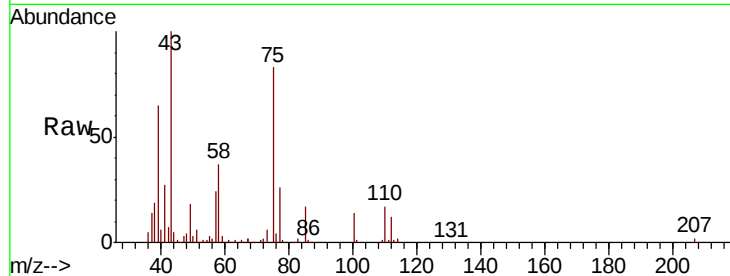
VF0824SBS01

Tot Ion: 75 Resp: 56188

Ion Ratio Lower Upper

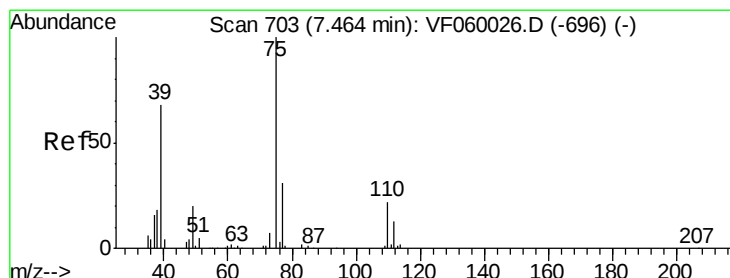
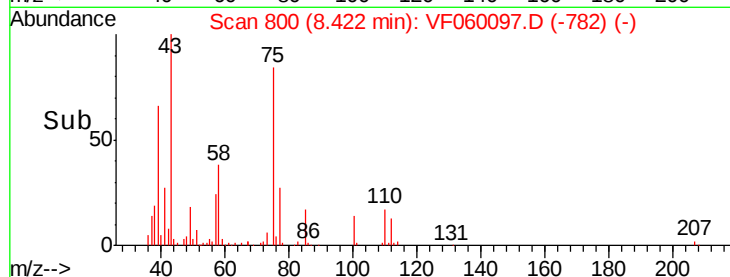
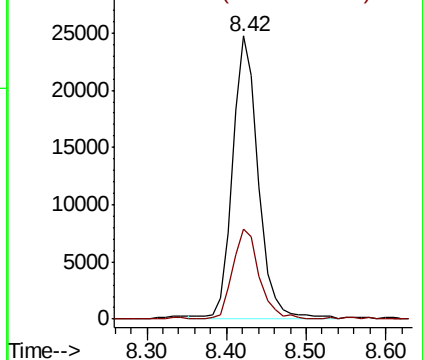
75 100

77 31.9 27.4 41.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 20.96 ug/l

RT: 7.46 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

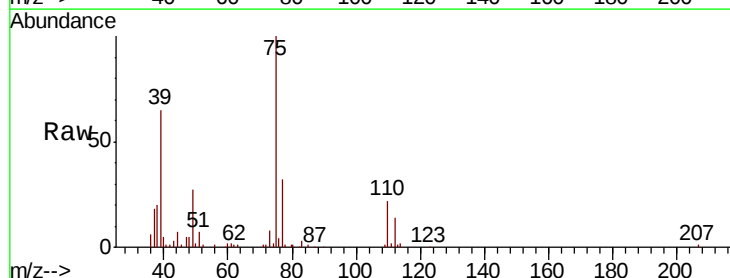
Tgt Ion: 75 Resp: 60988

Ion Ratio Lower Upper

75 100

77 32.4 24.6 37.0

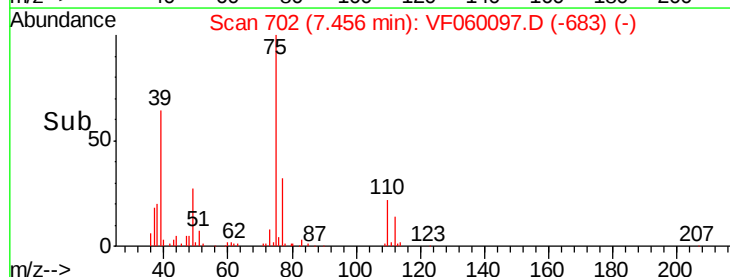
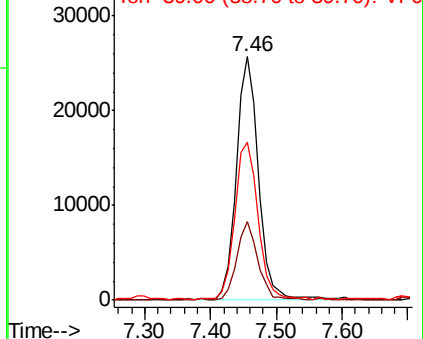
39 64.8 54.6 81.8

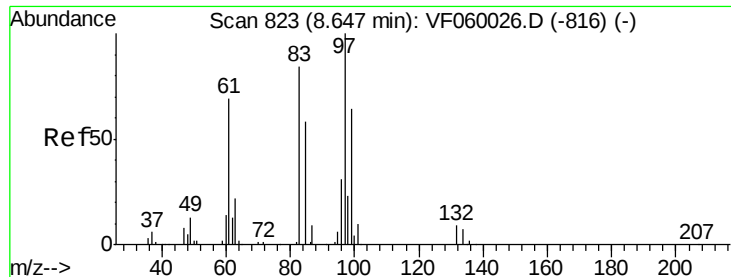


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.82 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

Tot Ion: 97 Resp: 31660

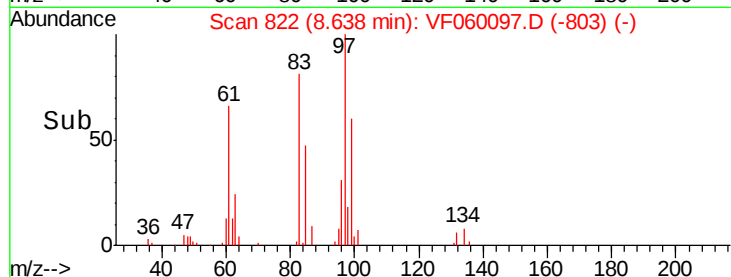
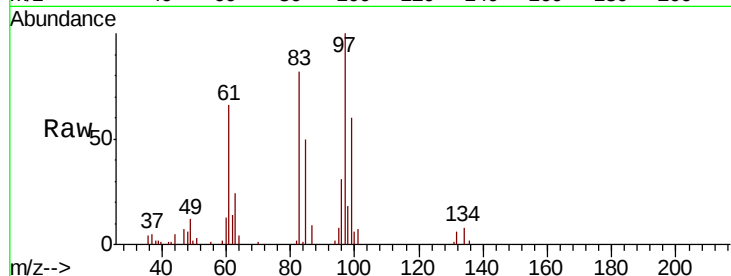
Ion	Ratio	Lower	Upper
97	100		
83	82.4	67.4	101.2
85	50.3	46.2	69.2
99	60.2	51.1	76.7

97 100

83 82.4 67.4 101.2

85 50.3 46.2 69.2

99 60.2 51.1 76.7

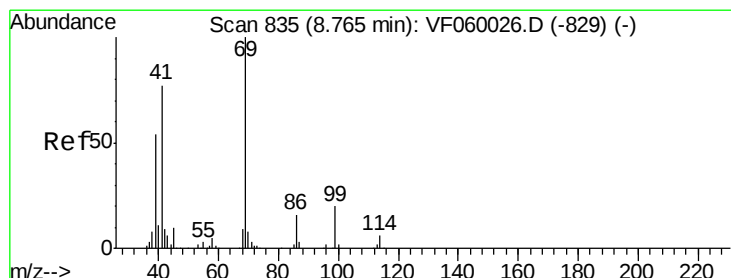
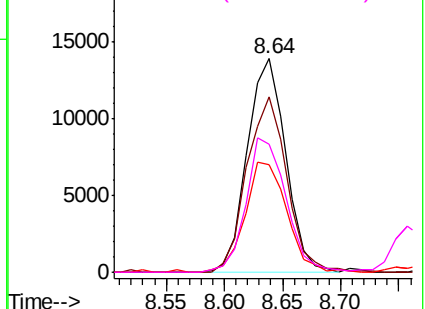


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 18.38 ug/l

RT: 8.76 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

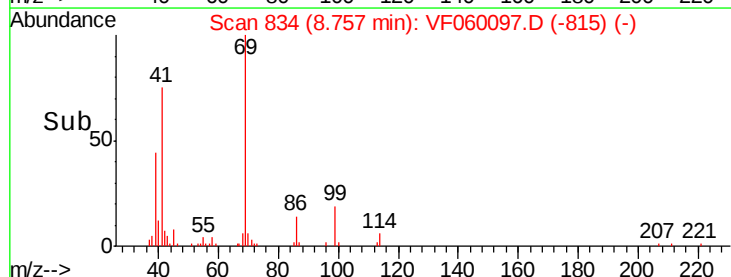
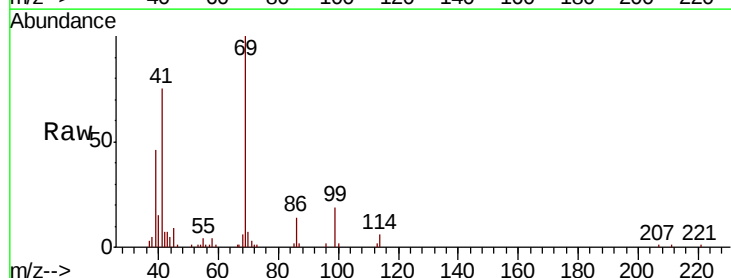
Tgt Ion: 69 Resp: 32288

Ion	Ratio	Lower	Upper
69	100		
41	74.9	61.6	92.4
39	45.7	43.9	65.9

69 100

41 74.9 61.6 92.4

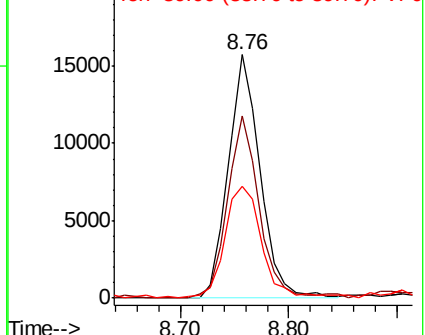
39 45.7 43.9 65.9

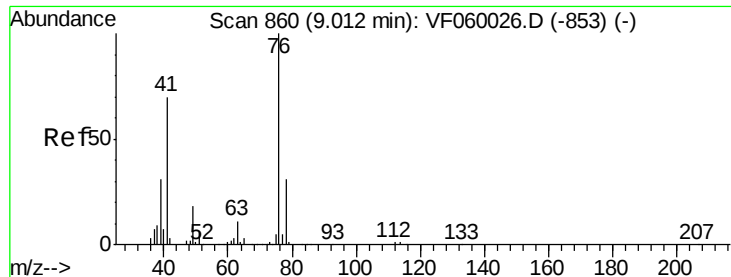


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.79 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.02 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

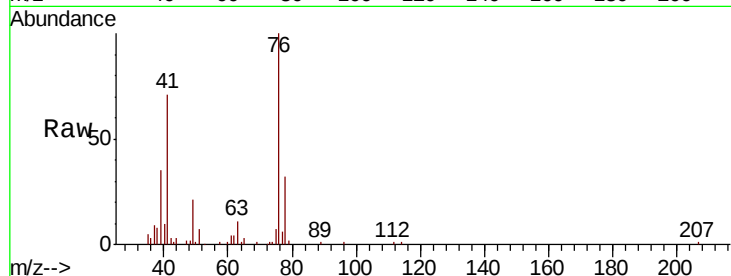
VF0824SBS01

Tot Ion: 76 Resp: 50469

Ion Ratio Lower Upper

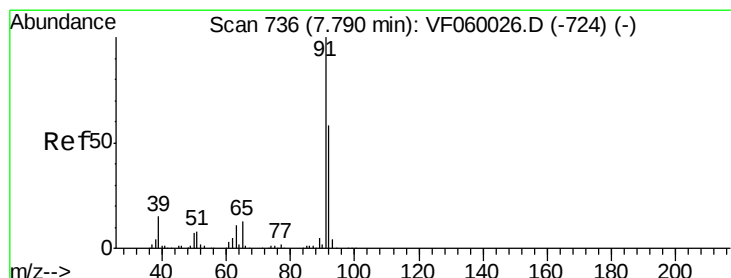
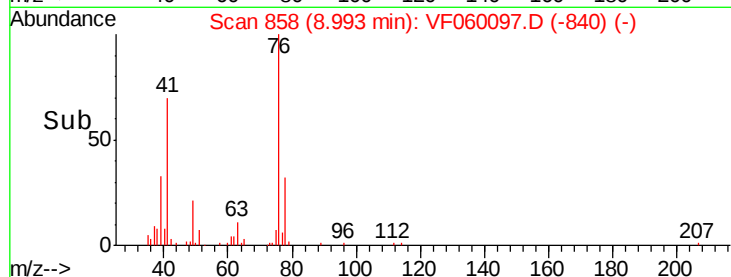
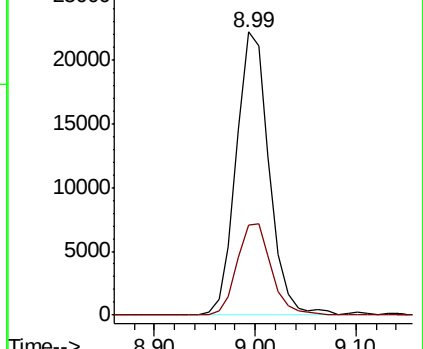
76 100

78 32.1 25.2 37.8



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 116.24 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060097.D

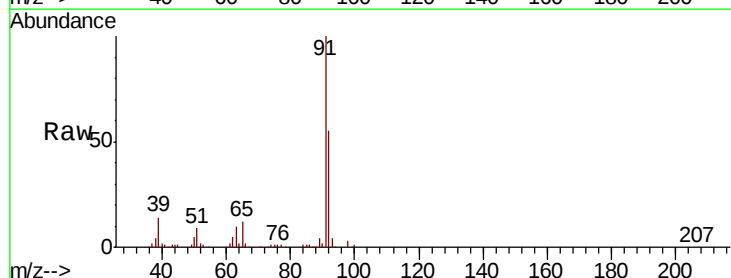
Acq: 24 Aug 2018 13:56

Tgt Ion: 63 Resp: 16206

Ion Ratio Lower Upper

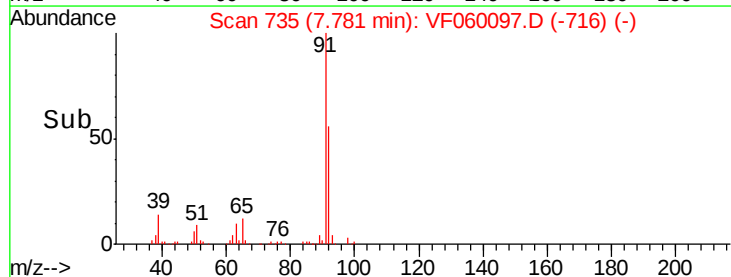
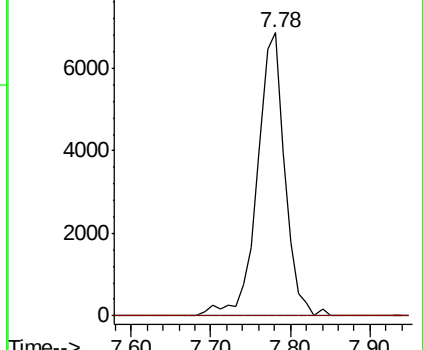
63 100

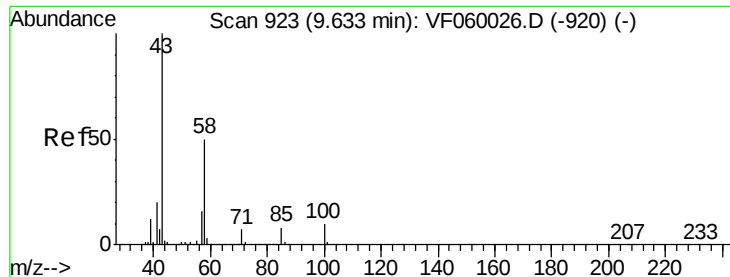
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

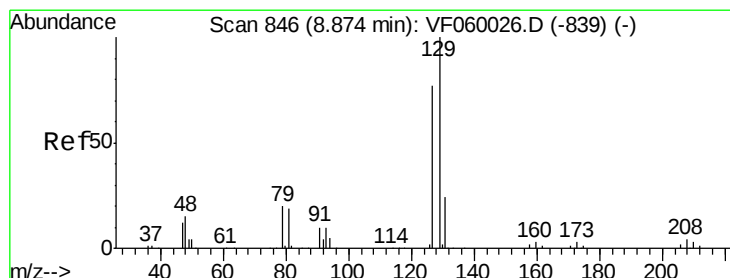
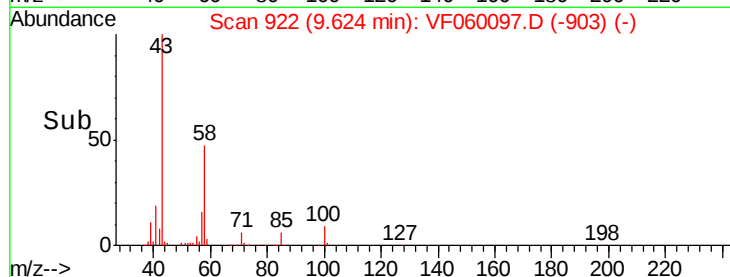
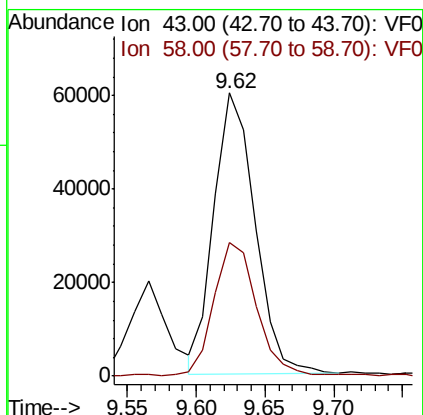
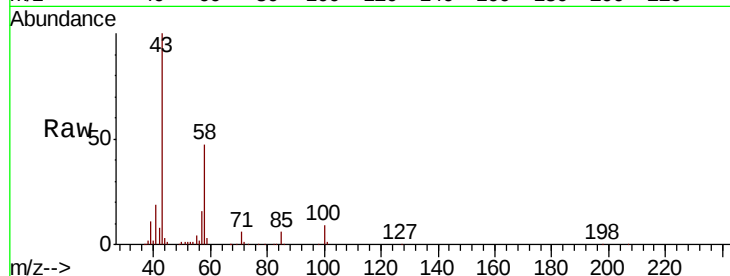




#59
2-Hexanone
Concen: 96.35 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

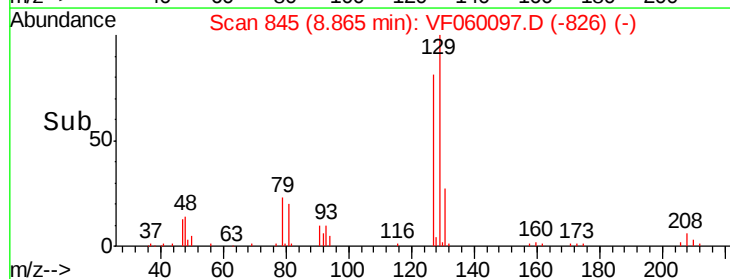
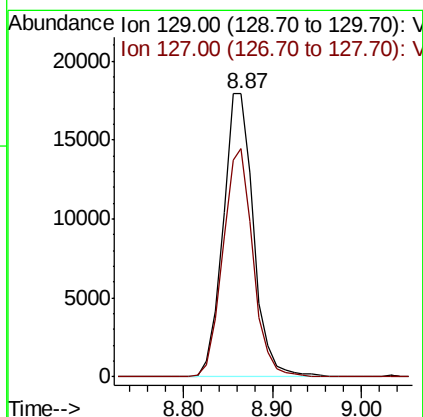
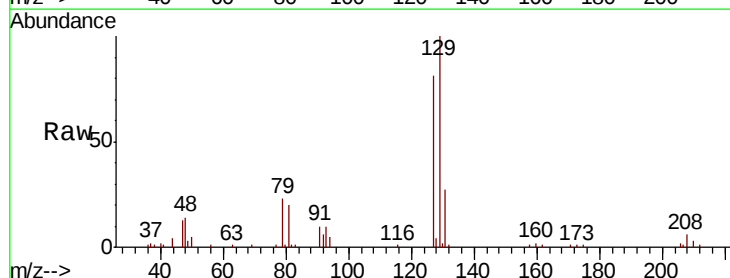
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

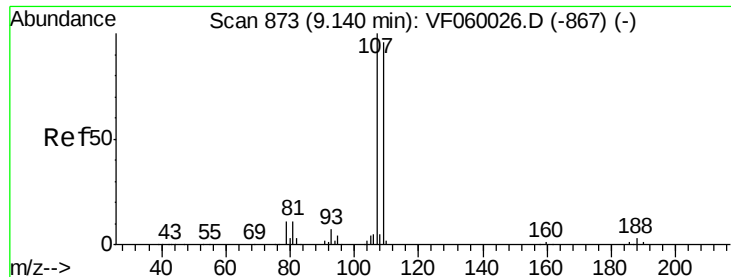
Tot Ion: 43 Resp: 124789
Ion Ratio Lower Upper
43 100
58 47.2 23.4 70.2



#60
Dibromochloromethane
Concen: 20.11 ug/l
RT: 8.87 min Scan# 845
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion: 129 Resp: 43074
Ion Ratio Lower Upper
129 100
127 80.8 38.6 115.8





#61

1,2-Dibromoethane

Concen: 20.44 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

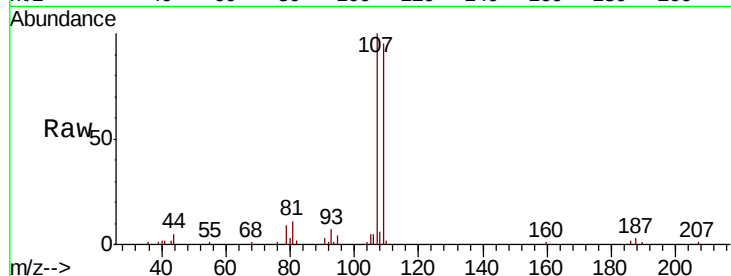
VF0824SBS01

Tot Ion:107 Resp: 34833

Ion Ratio Lower Upper

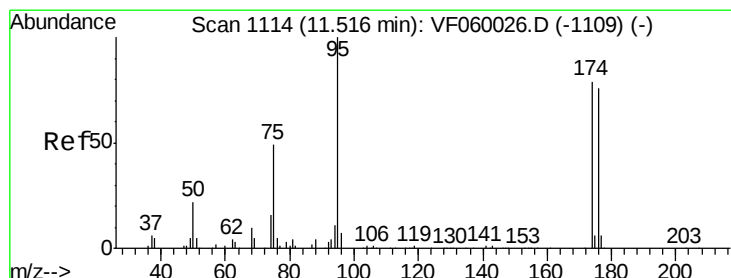
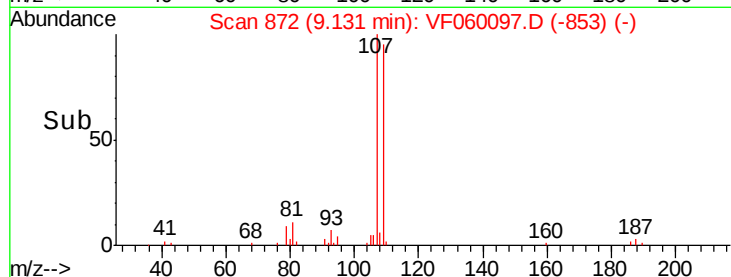
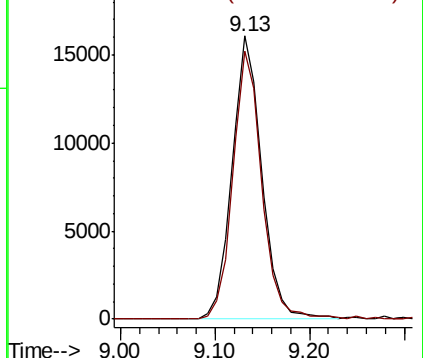
107 100

109 94.8 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.48 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

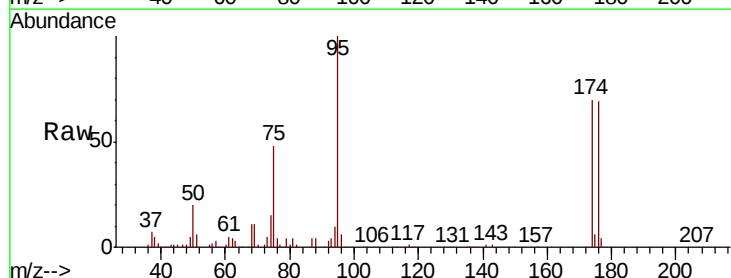
Tgt Ion: 95 Resp: 156014

Ion Ratio Lower Upper

95 100

174 70.1 0.0 158.4

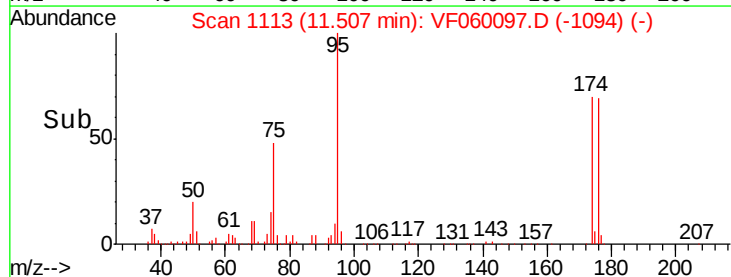
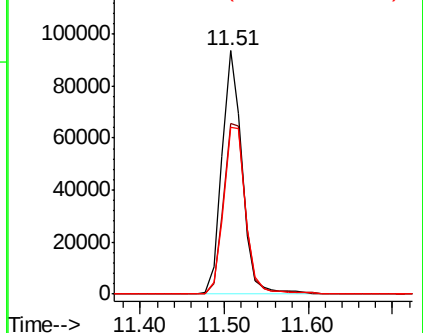
176 68.6 0.0 153.0

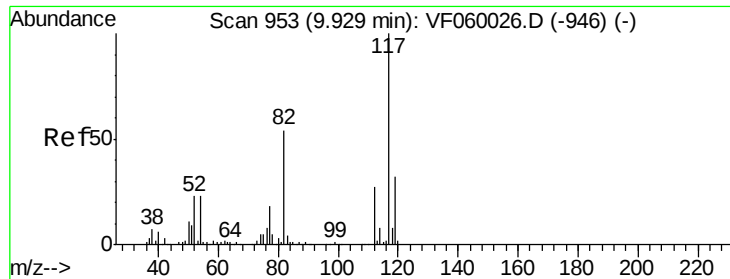


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

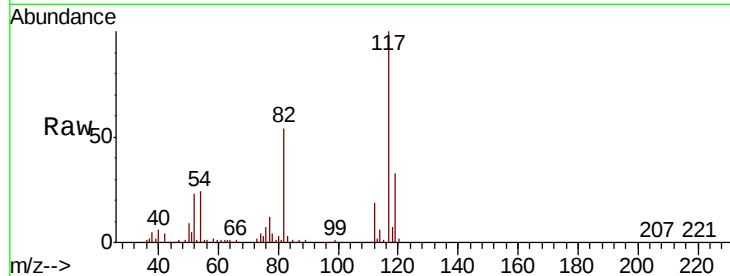




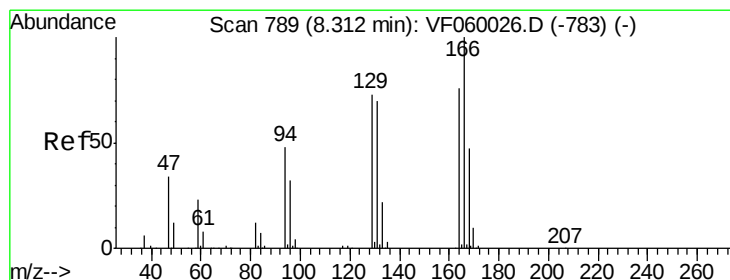
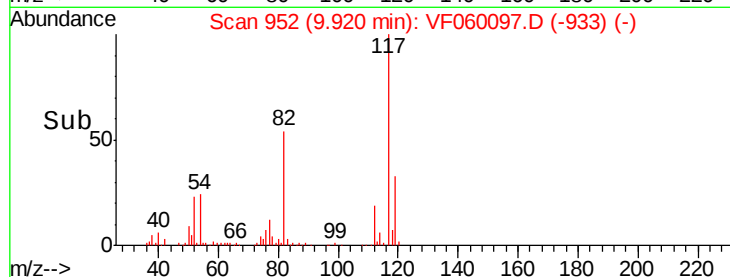
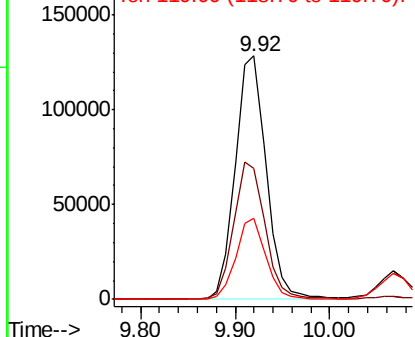
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.6	65.4
119	33.4	25.6	38.4



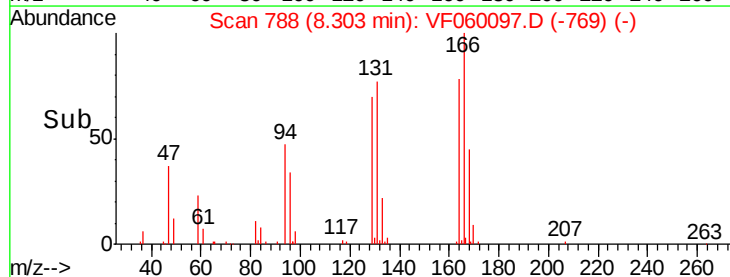
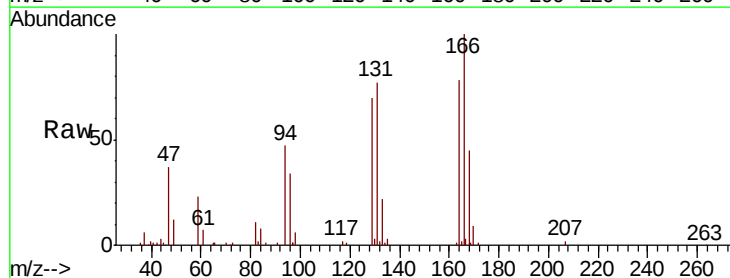
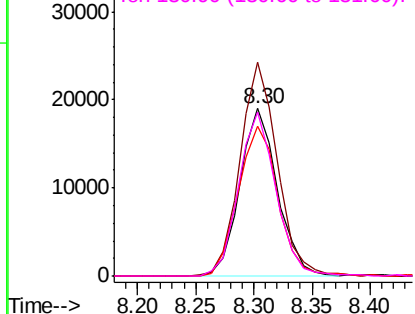
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

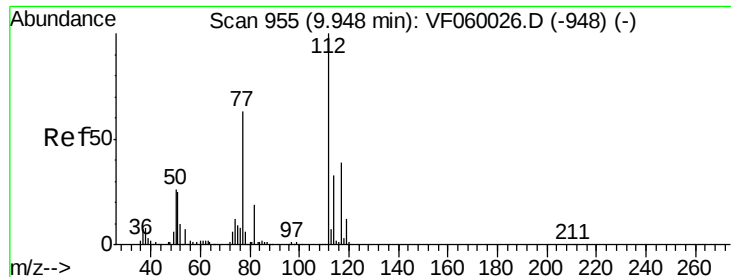


#64
Tetrachloroethene
Concen: 21.61 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	104.7	157.1
129	89.4	77.0	115.4
131	98.0	72.9	109.3

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

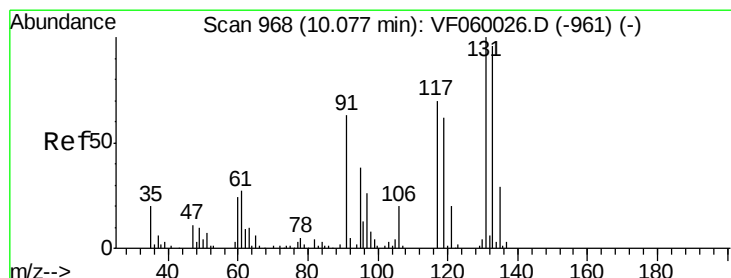
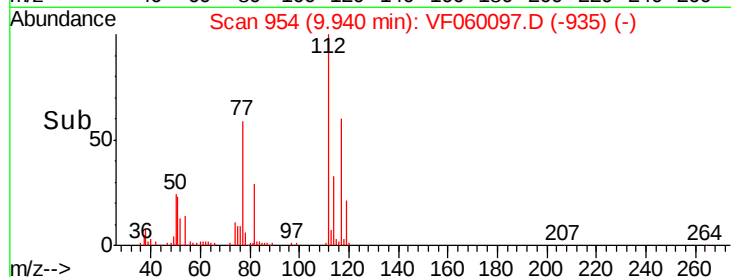
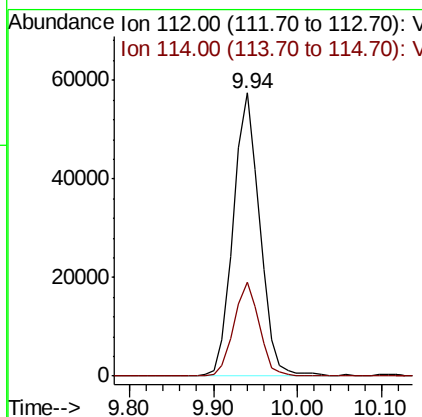
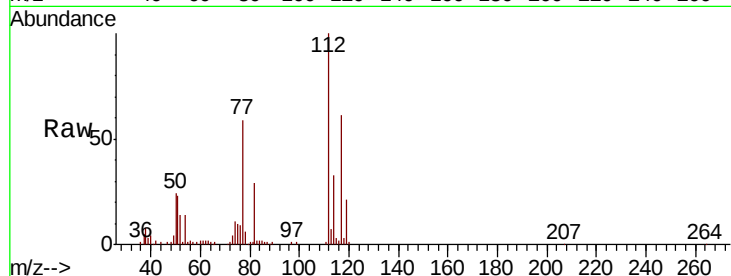




#65
Chlorobenzene
Concen: 22.95 ug/l
RT: 9.94 min Scan# 954
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

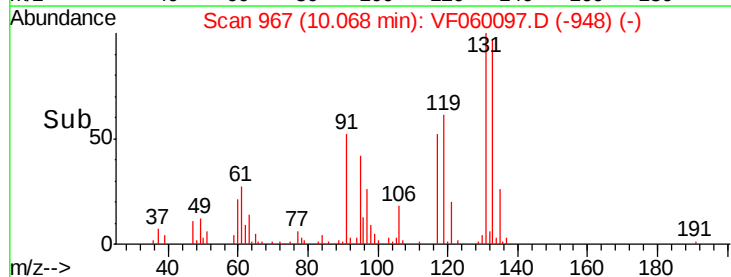
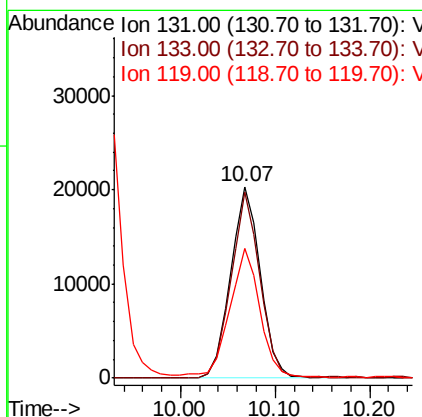
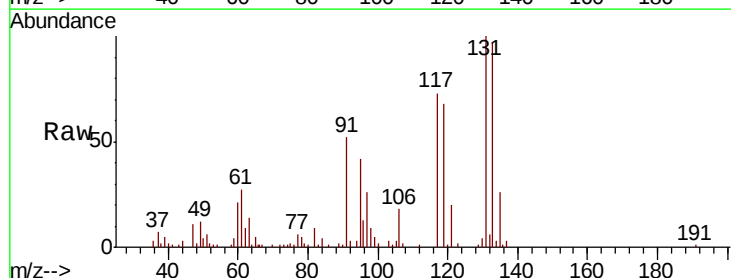
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

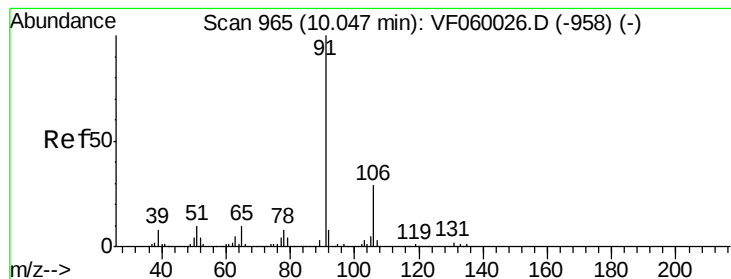
Tot Ion:112 Resp: 126085
Ion Ratio Lower Upper
112 100
114 33.0 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 21.19 ug/l
RT: 10.07 min Scan# 967
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion:131 Resp: 44159
Ion Ratio Lower Upper
131 100
133 97.1 48.2 144.6
119 67.6 31.4 94.2





#67

Ethyl Benzene

Concen: 22.56 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

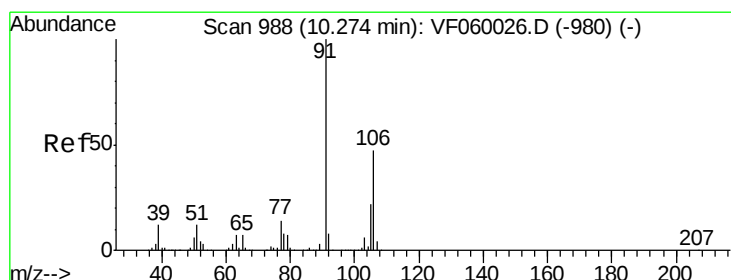
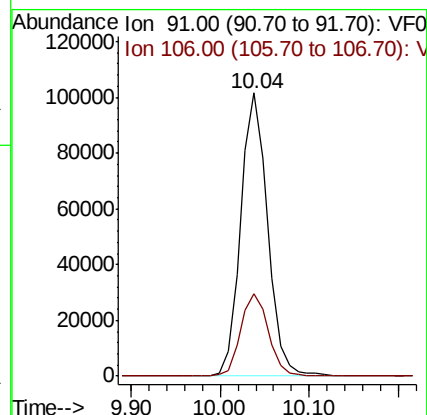
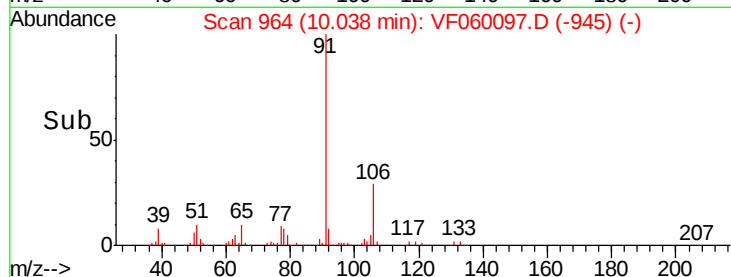
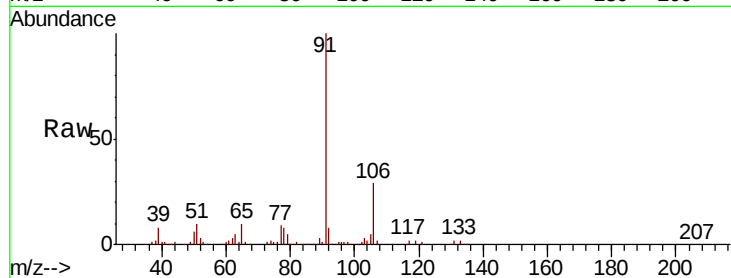
VF0824SBS01

Tot Ion: 91 Resp: 213841

Ion Ratio Lower Upper

91 100

106 29.3 23.6 35.4



#68

m/p-Xylenes

Concen: 47.25 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF060097.D

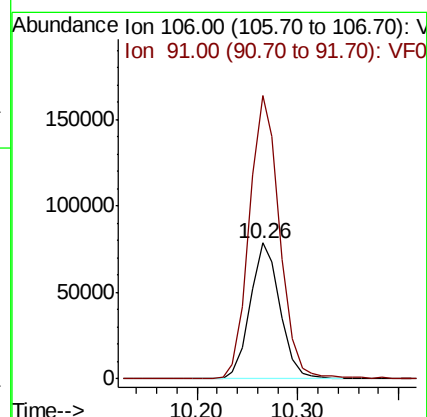
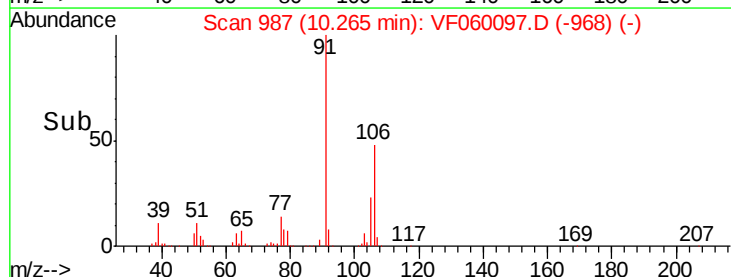
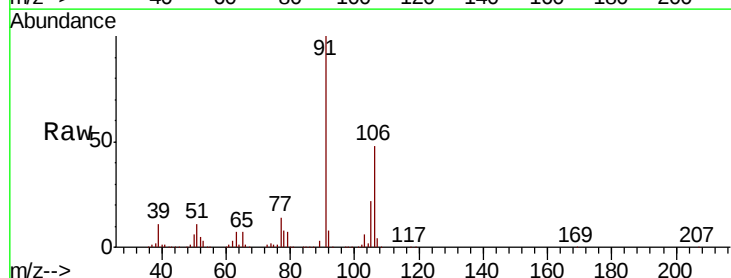
Acq: 24 Aug 2018 13:56

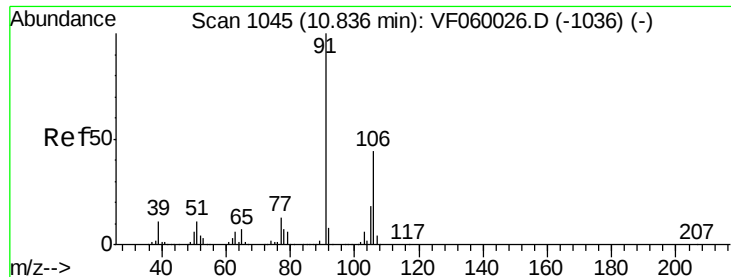
Tgt Ion: 106 Resp: 161984

Ion Ratio Lower Upper

106 100

91 208.3 171.8 257.8

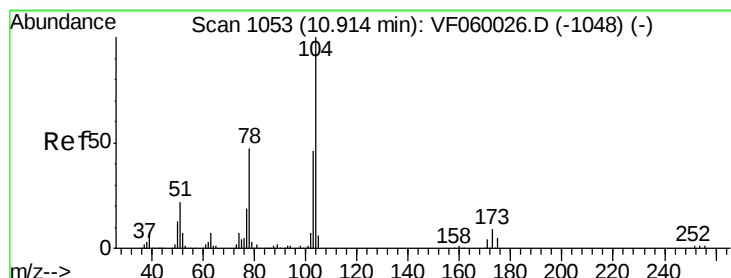
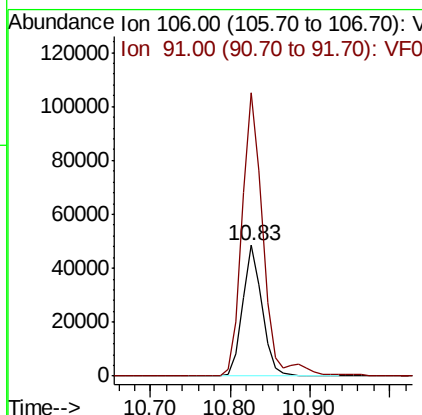
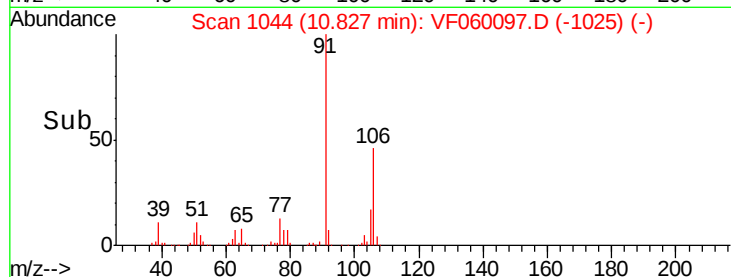
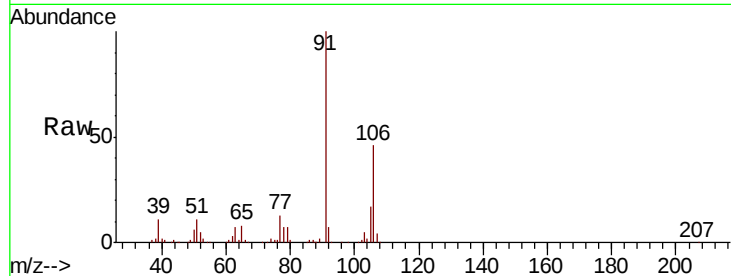




#69
o-Xylene
Concen: 22.09 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

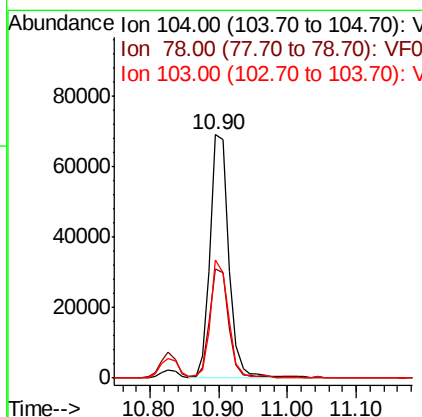
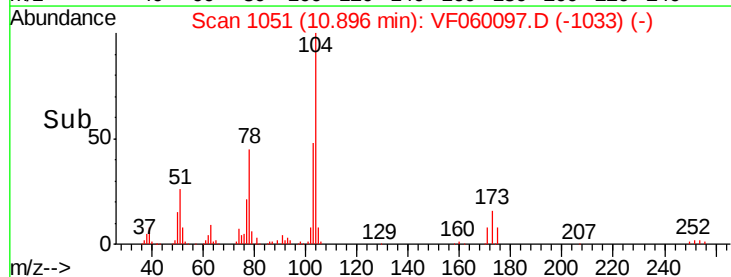
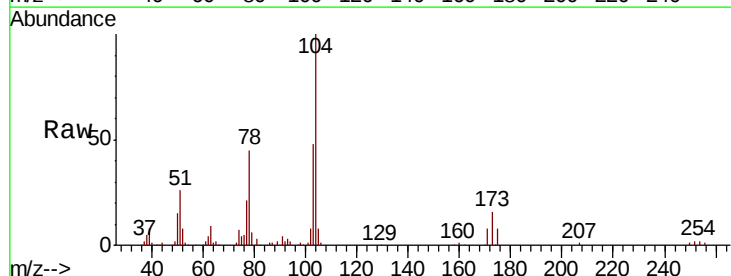
Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

Tot Ion:106 Resp: 82049
Ion Ratio Lower Upper
106 100
91 216.3 112.5 337.5



#70
Styrene
Concen: 22.93 ug/l
RT: 10.90 min Scan# 1051
Delta R.T. -0.02 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion:104 Resp: 130653
Ion Ratio Lower Upper
104 100
78 45.0 38.0 57.0
103 48.3 37.6 56.4





#71

Bromoform

Concen: 18.30 ug/l

RT: 10.89 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

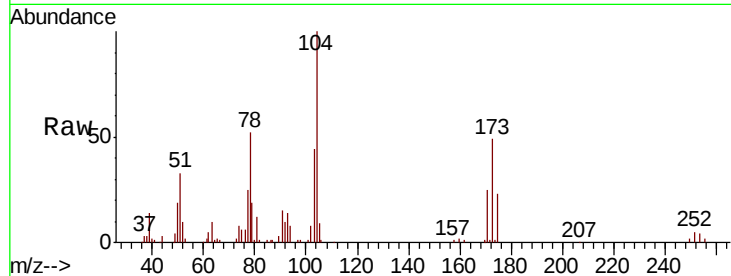
Tot Ion:173 Resp: 26608

Ion Ratio Lower Upper

173 100

175 46.4 24.7 74.1

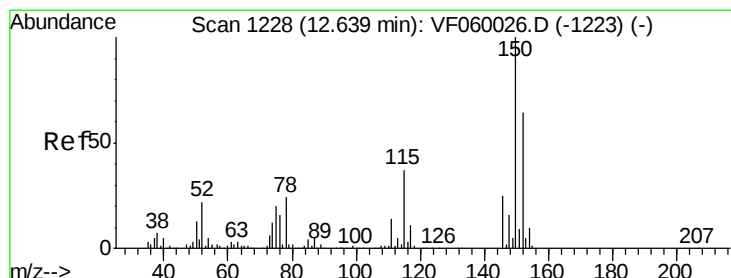
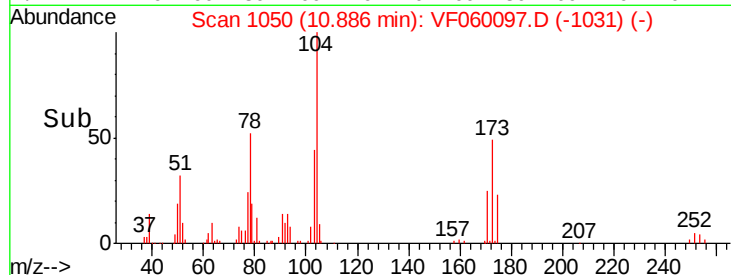
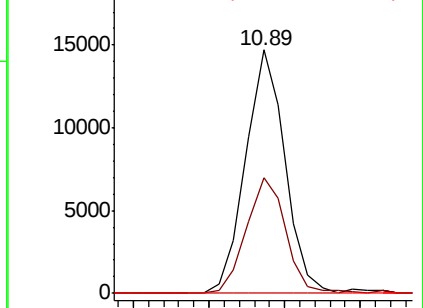
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

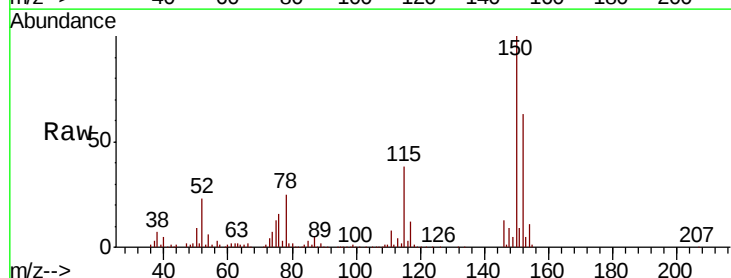
Tgt Ion:152 Resp: 172891

Ion Ratio Lower Upper

152 100

115 60.4 28.6 85.9

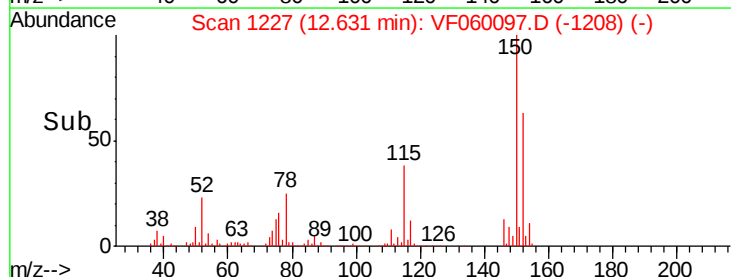
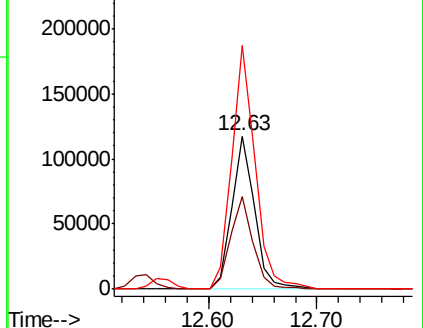
150 159.3 0.0 312.0

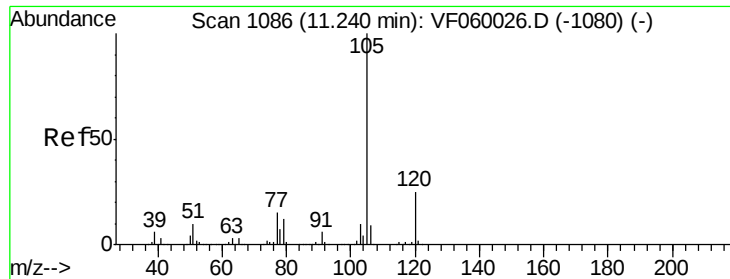


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.94 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

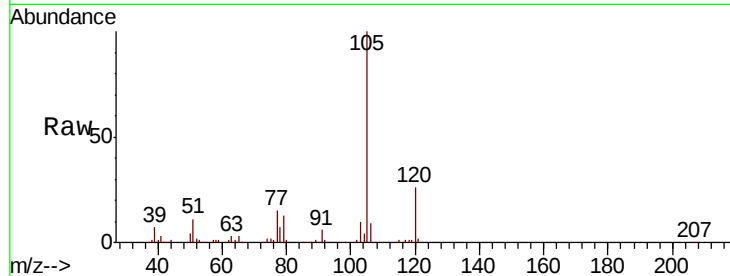
VF0824SBS01

Tot Ion:105 Resp: 238725

Ion Ratio Lower Upper

105 100

120 26.2 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

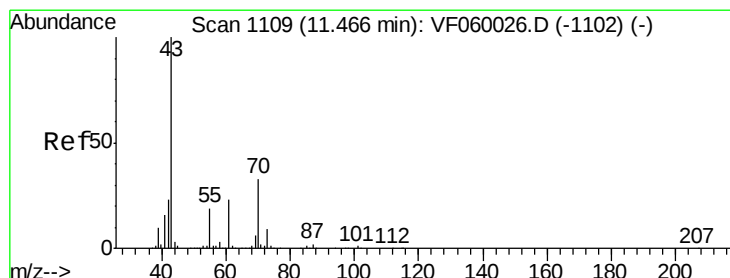
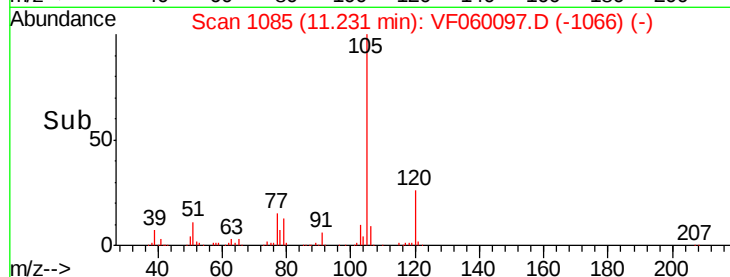
150000

100000

50000

0

Time--> 11.10 11.20 11.30 11.40



#74

N-ethyl acetate

Concen: 17.90 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Tgt Ion: 43 Resp: 57905

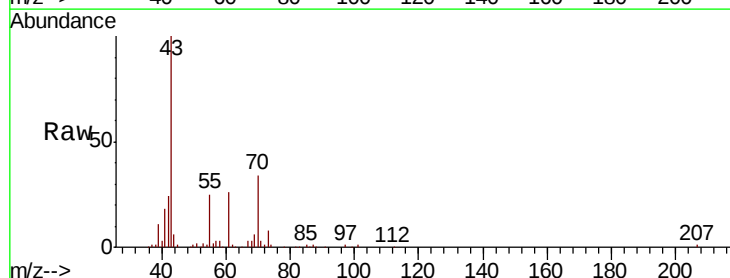
Ion Ratio Lower Upper

43 100

70 34.0 26.4 39.6

55 25.0 15.0 22.4#

61 25.6 18.4 27.6



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

50000

40000

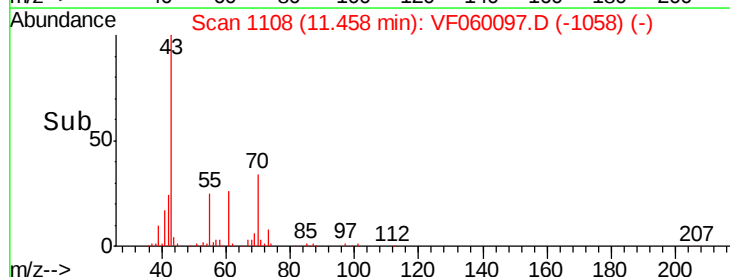
30000

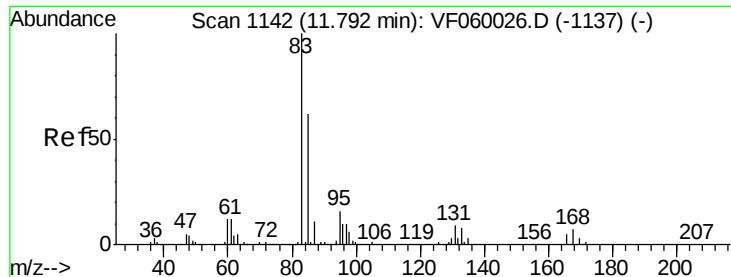
20000

10000

0

Time--> 11.30 11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 20.64 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

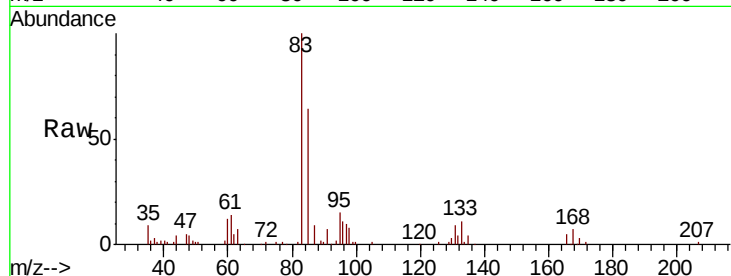
Tot Ion: 83 Resp: 46921

Ion Ratio Lower Upper

83 100

131 9.0 4.5 13.7

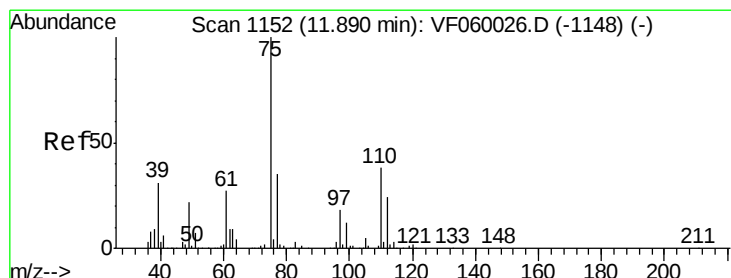
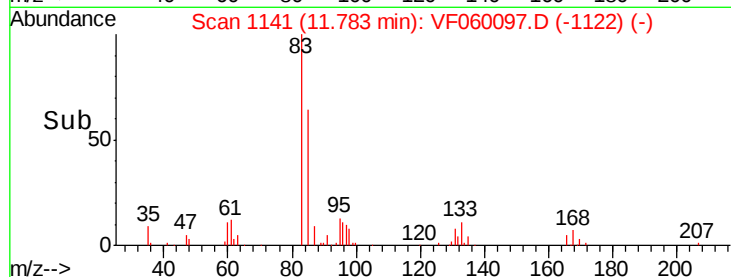
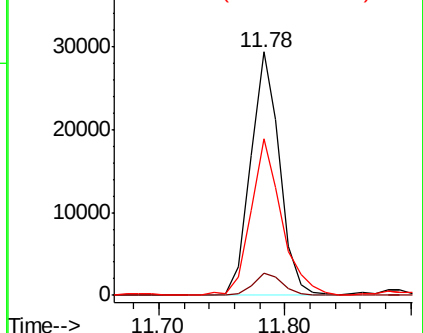
85 64.4 31.3 93.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 21.00 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.01 min

Lab File: VF060097.D

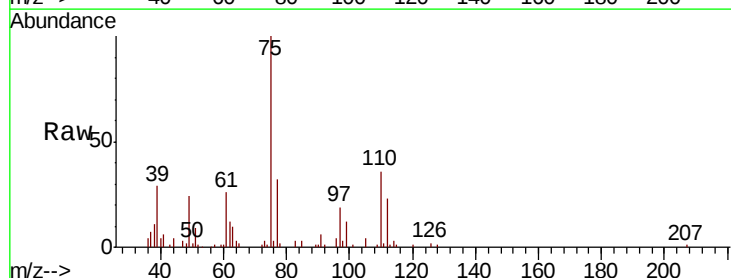
Acq: 24 Aug 2018 13:56

Tgt Ion: 75 Resp: 37010

Ion Ratio Lower Upper

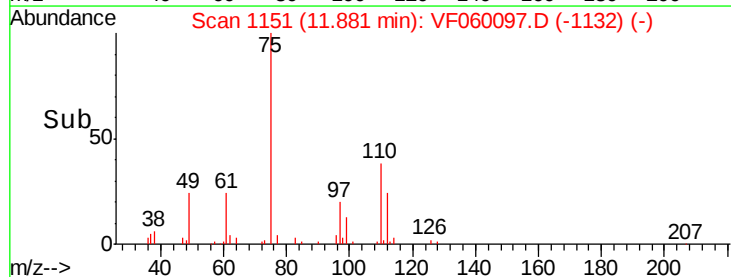
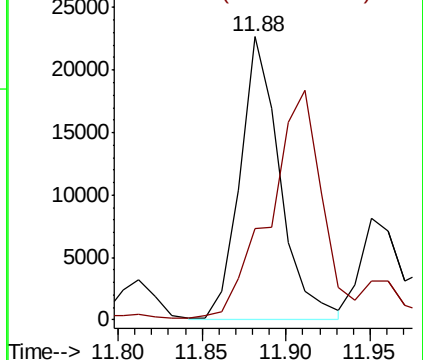
75 100

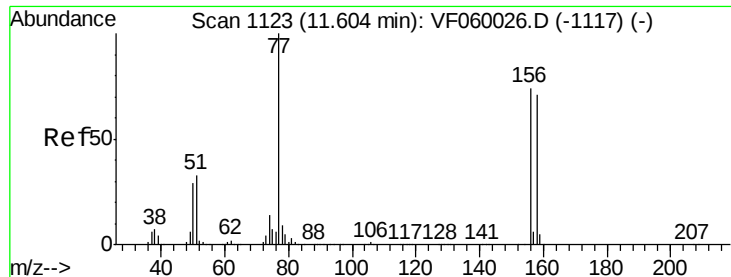
77 32.4 17.3 52.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.44 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

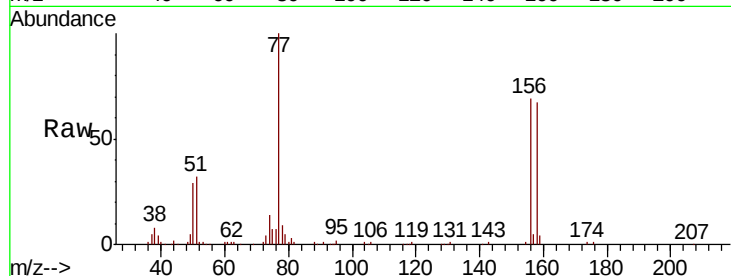
Tot Ion:156 Resp: 60689

Ion Ratio Lower Upper

156 100

77 144.0 68.0 204.0

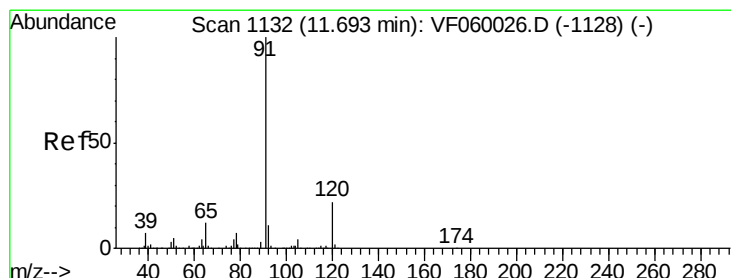
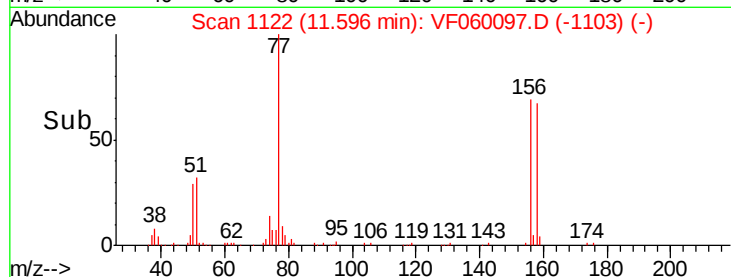
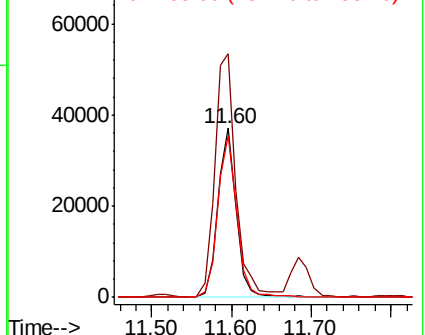
158 95.8 48.4 145.3



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 24.68 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF060097.D

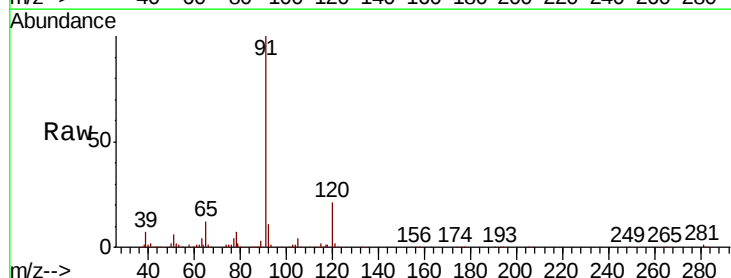
Acq: 24 Aug 2018 13:56

Tgt Ion: 91 Resp: 317044

Ion Ratio Lower Upper

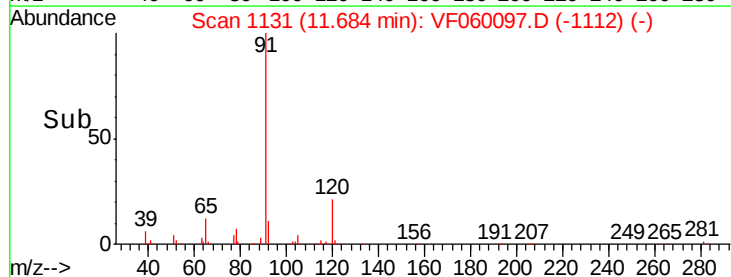
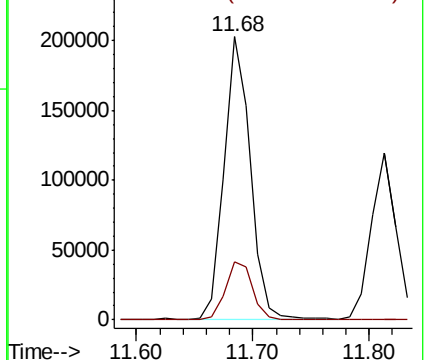
91 100

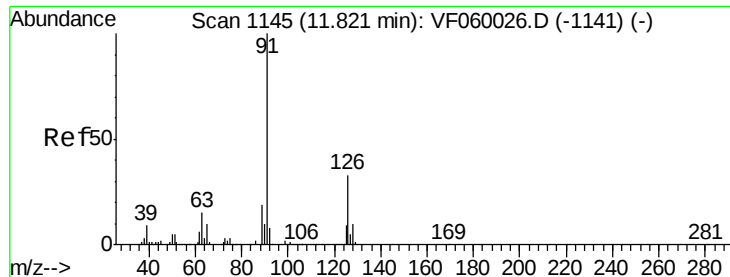
120 20.7 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.53 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

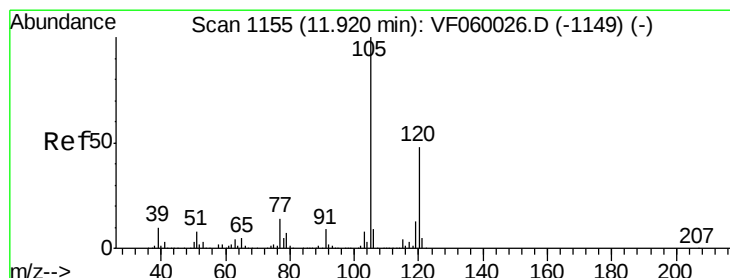
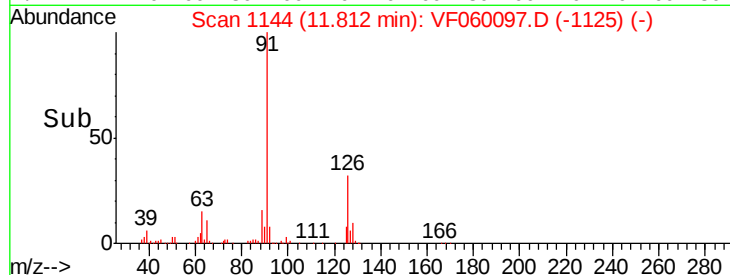
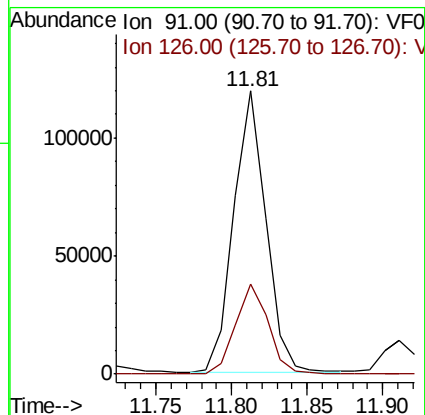
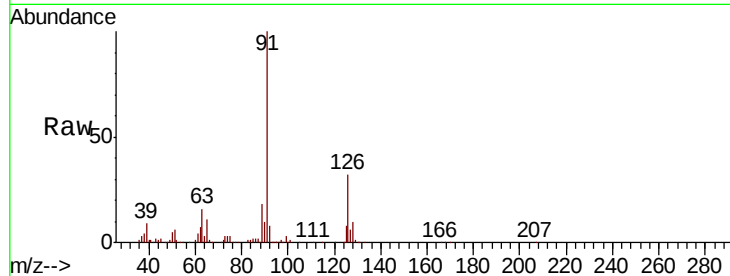
VF0824SBS01

Tot Ion: 91 Resp: 177740

Ion Ratio Lower Upper

91 100

126 31.9 16.6 49.7



#80

1,3,5-Trimethylbenzene

Concen: 23.26 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF060097.D

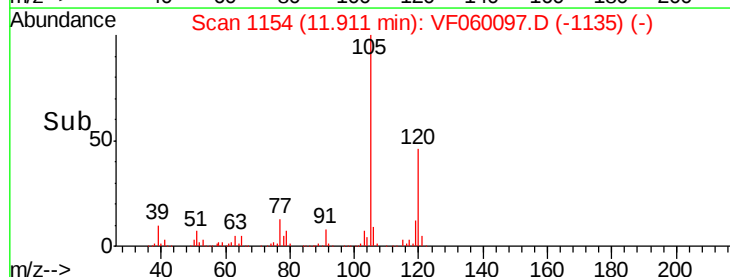
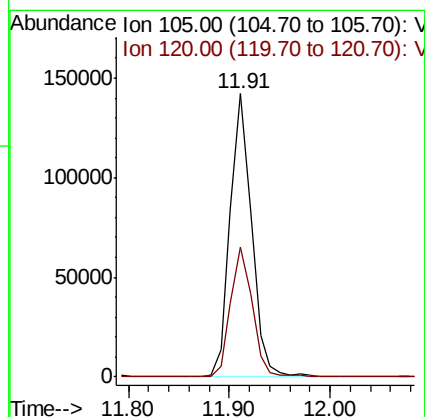
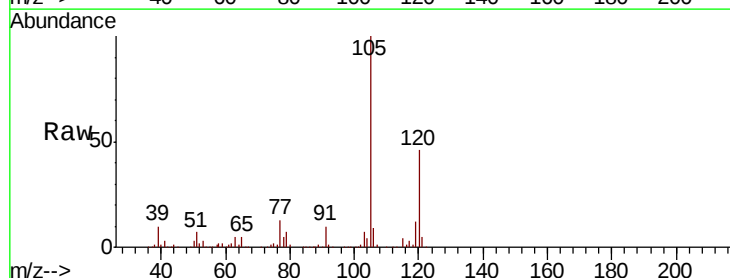
Acq: 24 Aug 2018 13:56

Tgt Ion:105 Resp: 210931

Ion Ratio Lower Upper

105 100

120 46.0 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 23.77 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

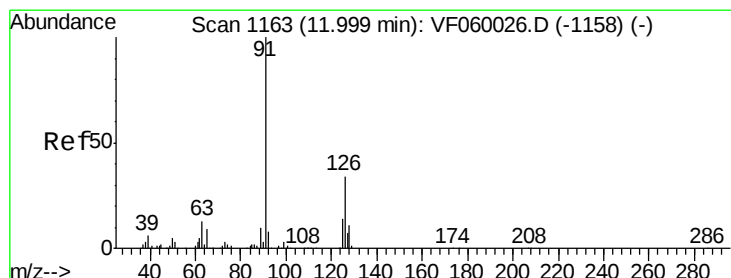
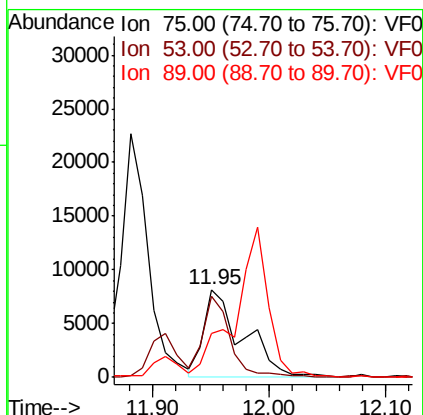
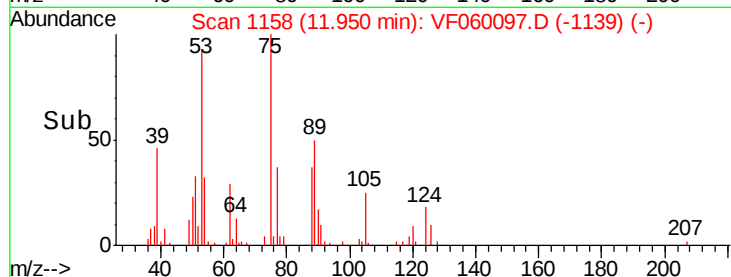
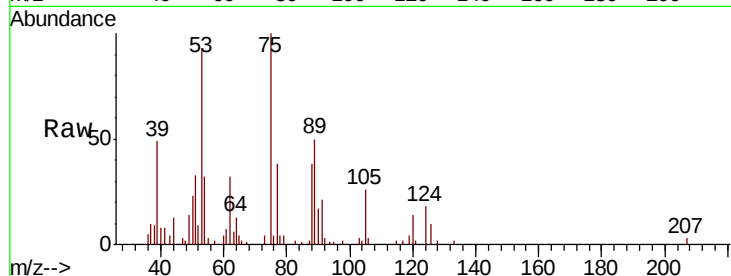
Tot Ion: 75 Resp: 19171

Ion Ratio Lower Upper

75 100

53 92.9 66.2 99.4

89 49.5 42.8 64.2



#82

4-Chlorotoluene

Concen: 23.07 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF060097.D

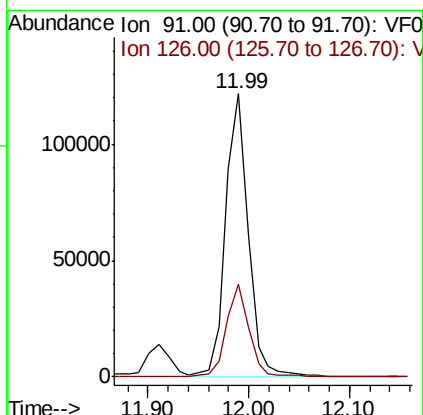
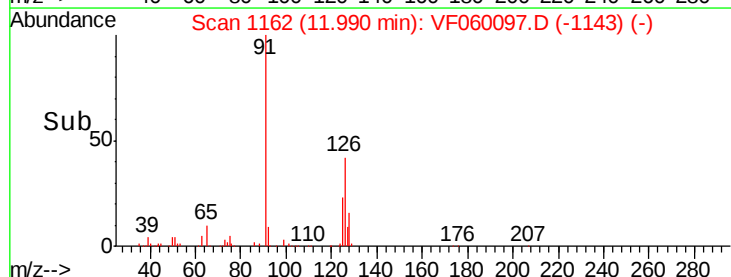
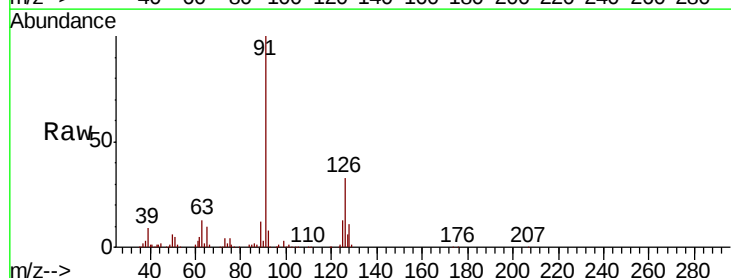
Acq: 24 Aug 2018 13:56

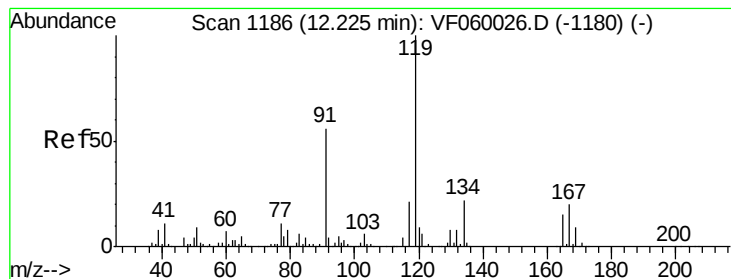
Tgt Ion: 91 Resp: 189172

Ion Ratio Lower Upper

91 100

126 32.8 17.0 50.9





#83

tert-Butylbenzene

Concen: 24.63 ug/l

RT: 12.22 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

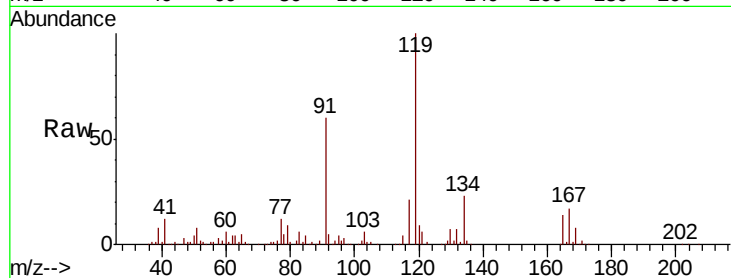
Tot Ion:119 Resp: 217769

Ion Ratio Lower Upper

119 100

91 59.8 28.1 84.3

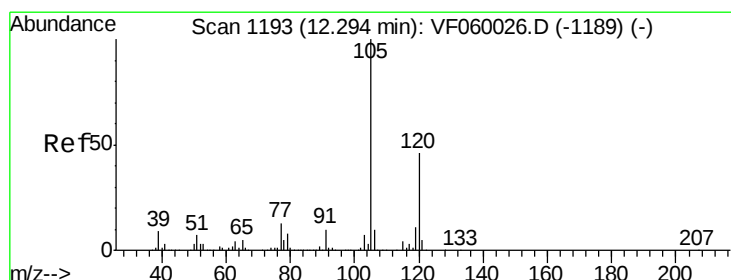
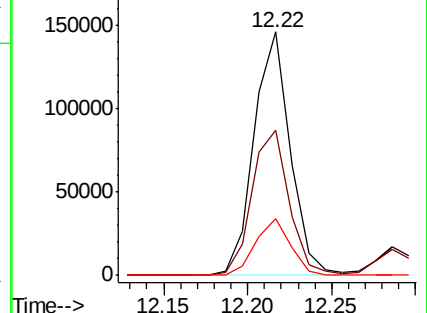
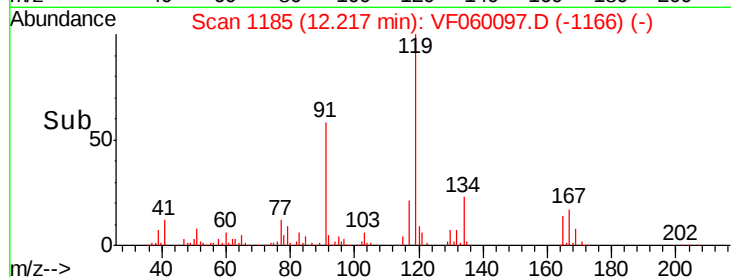
134 23.2 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.35 ug/l

RT: 12.29 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060097.D

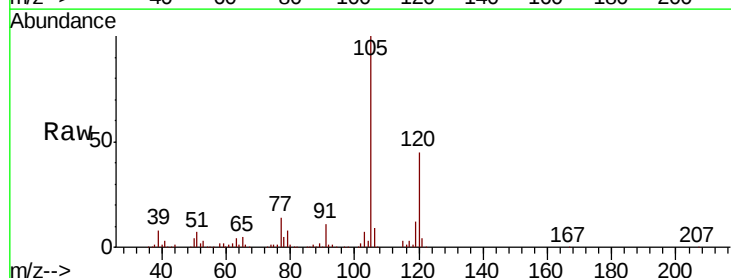
Acq: 24 Aug 2018 13:56

Tgt Ion:105 Resp: 215432

Ion Ratio Lower Upper

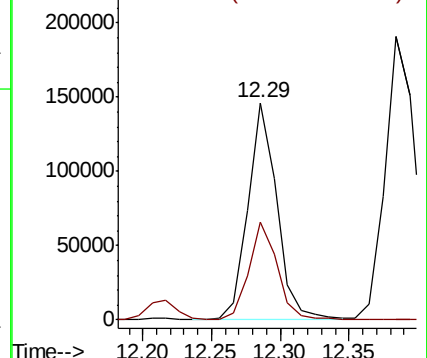
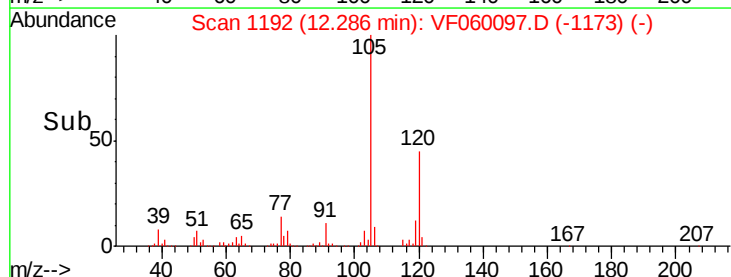
105 100

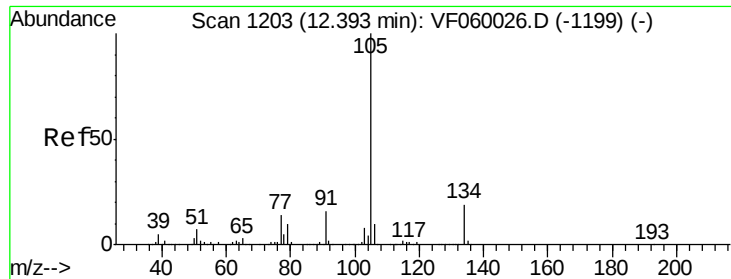
120 45.2 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 23.73 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

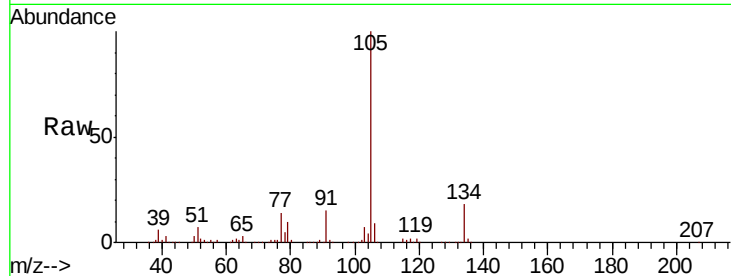
VF0824SBS01

Tot Ion:105 Resp: 292148

Ion Ratio Lower Upper

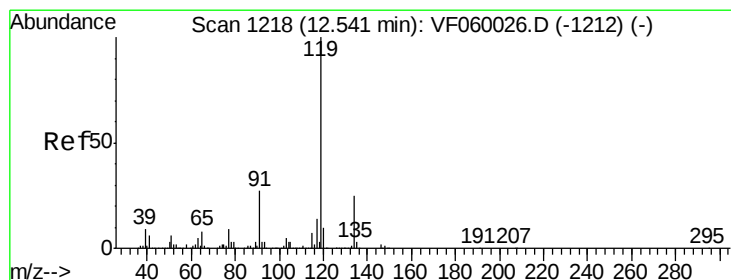
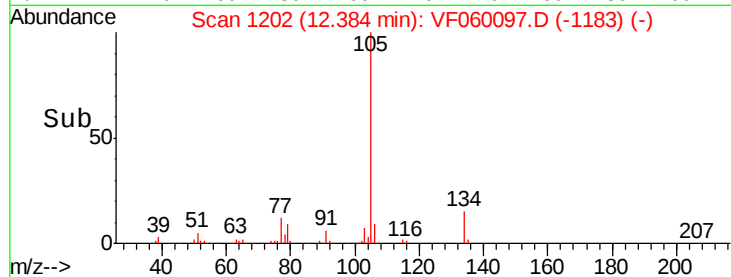
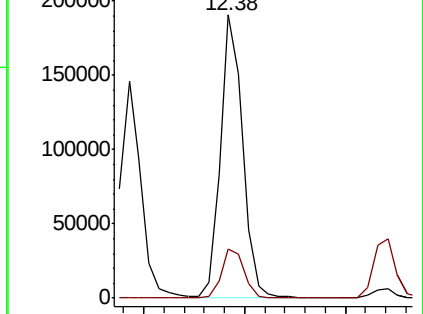
105 100

134 17.6 9.3 27.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 24.56 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

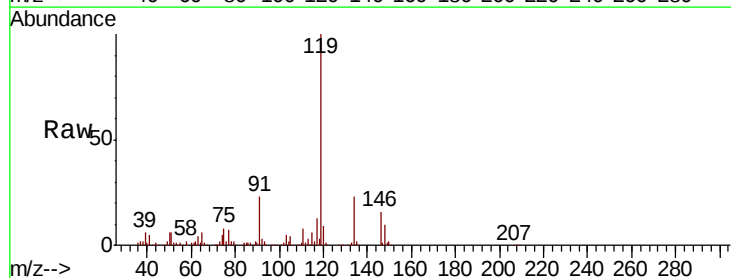
Tgt Ion:119 Resp: 250812

Ion Ratio Lower Upper

119 100

134 23.4 12.4 37.2

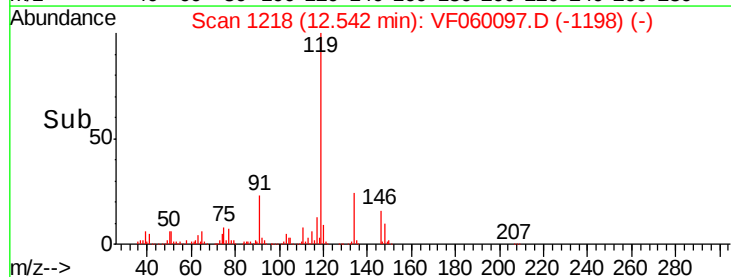
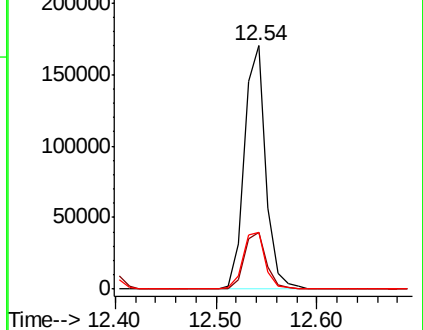
91 23.1 13.5 40.4

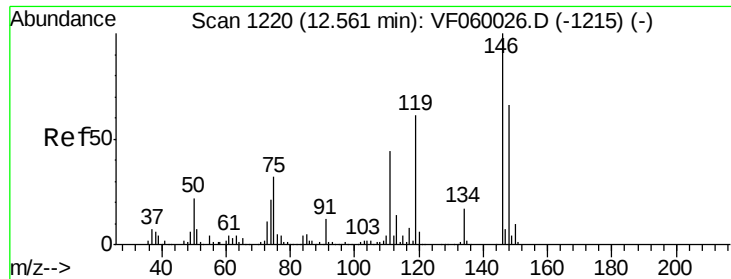


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

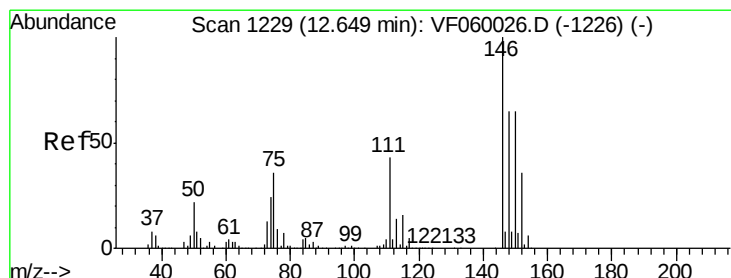
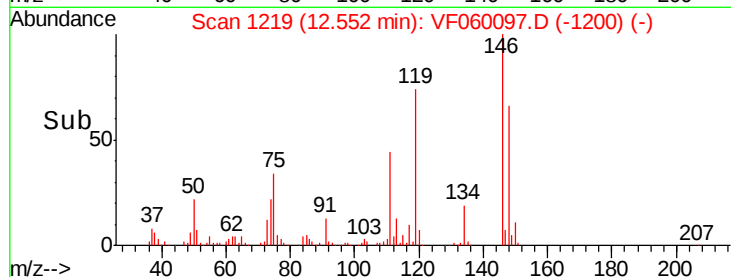
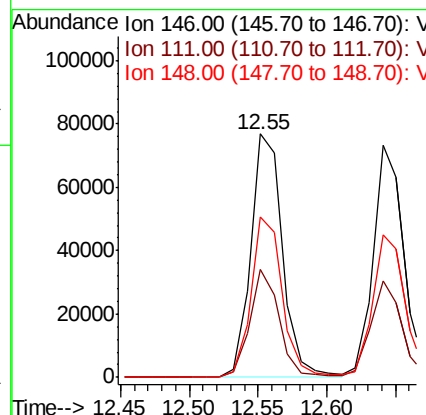
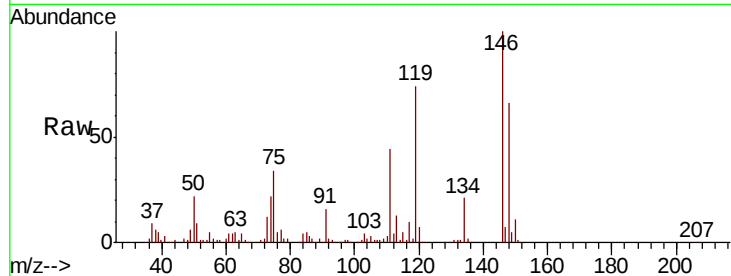




#87
 1,3-Dichlorobenzene
 Concen: 23.74 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

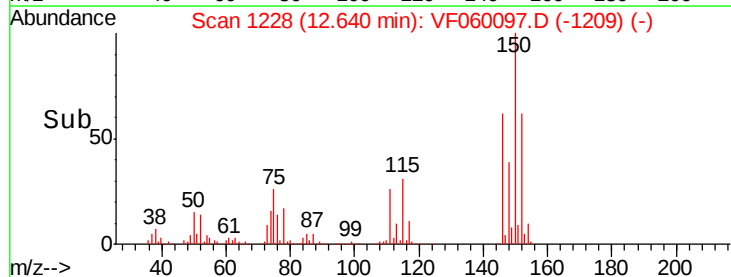
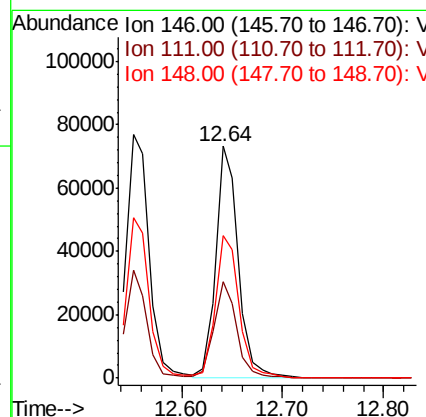
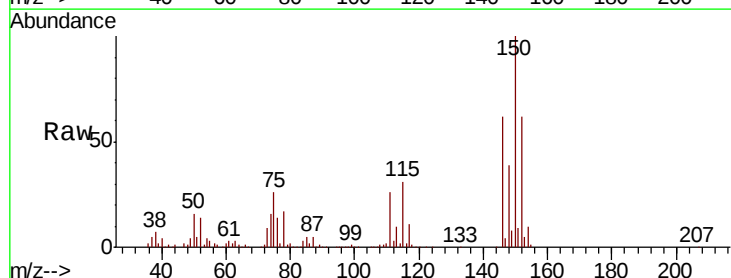
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0824SBS01

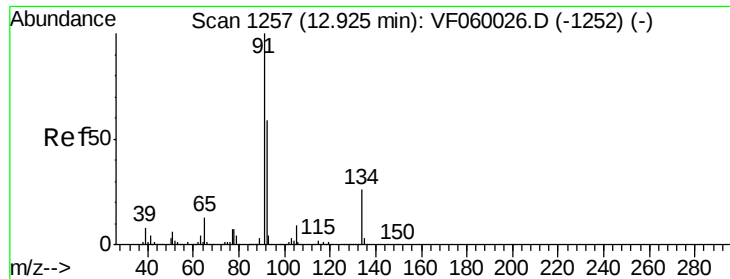
Tot Ion:146 Resp: 124255
 Ion Ratio Lower Upper
 146 100
 111 44.1 21.9 65.5
 148 66.1 32.9 98.7



#88
 1,4-Dichlorobenzene
 Concen: 22.00 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Tgt Ion:146 Resp: 114434
 Ion Ratio Lower Upper
 146 100
 111 41.5 21.6 64.8
 148 61.7 32.3 96.8





#89

n-Butylbenzene

Concen: 25.01 ug/l

RT: 12.92 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

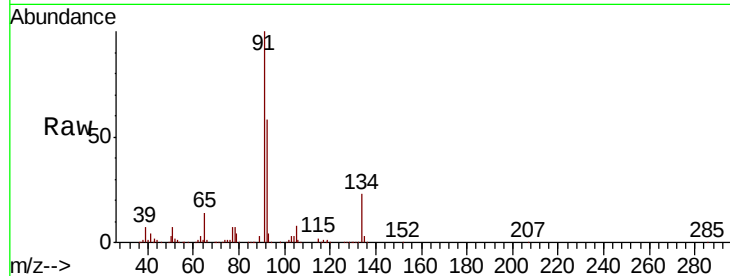
Tot Ion: 91 Resp: 248184

Ion Ratio Lower Upper

91 100

92 58.3 29.3 87.9

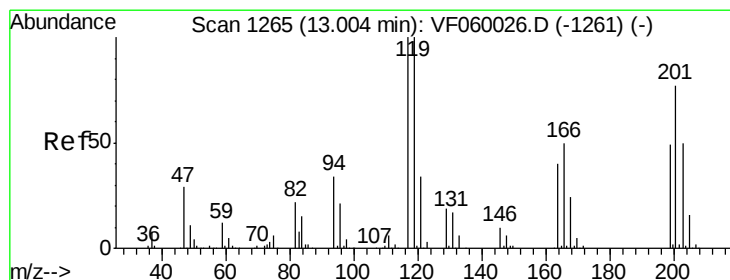
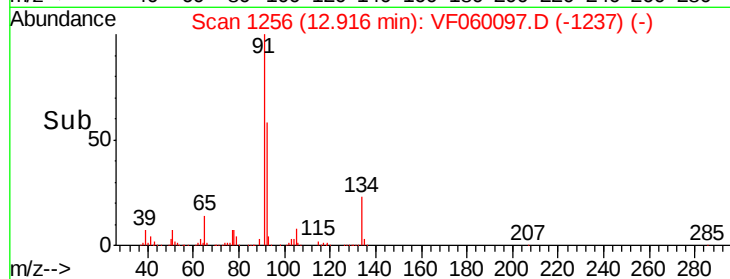
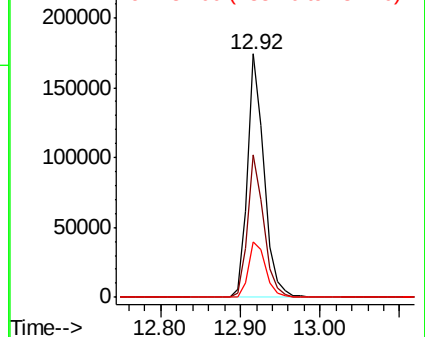
134 22.6 12.8 38.3



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: 24.01 ug/l

RT: 13.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF060097.D

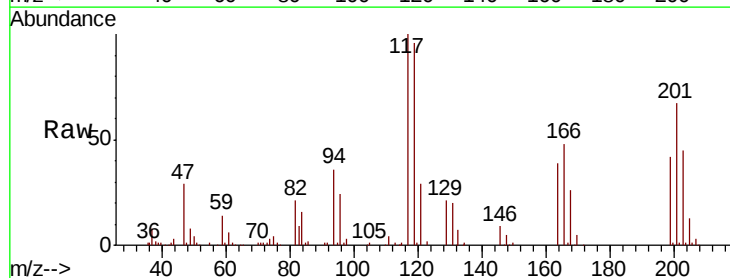
Acq: 24 Aug 2018 13:56

Tgt Ion: 117 Resp: 55096

Ion Ratio Lower Upper

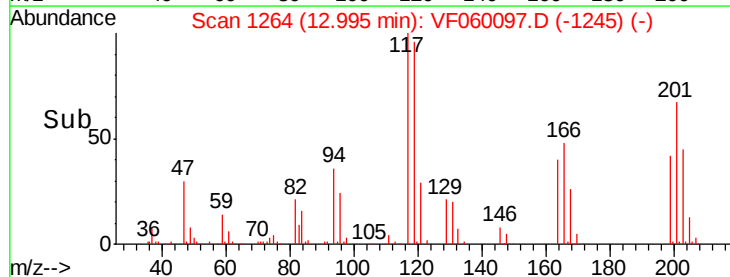
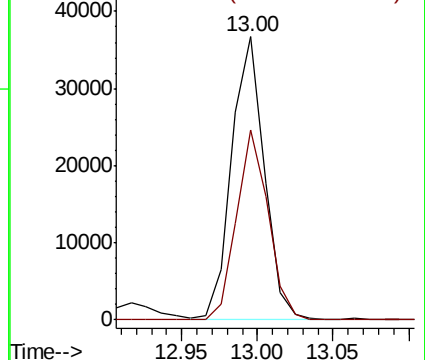
117 100

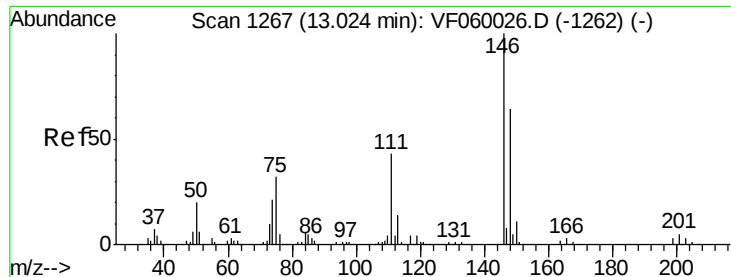
201 67.0 38.6 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 22.23 ug/l

RT: 13.02 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0824SBS01

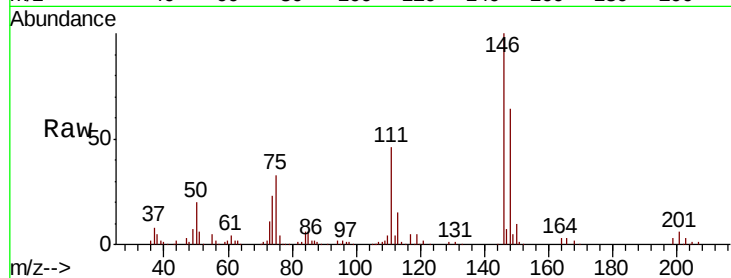
Tot Ion:146 Resp: 111869

Ion Ratio Lower Upper

146 100

111 46.3 21.6 64.6

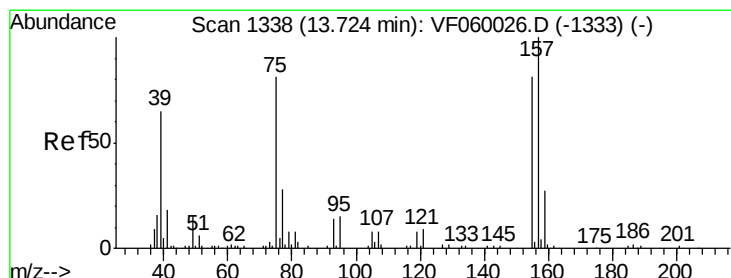
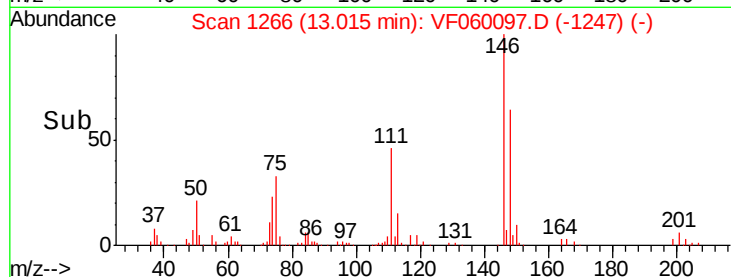
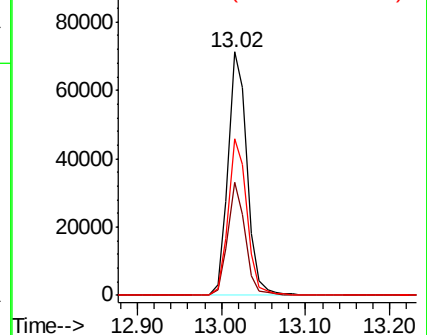
148 64.5 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 16.77 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. -0.01 min

Lab File: VF060097.D

Acq: 24 Aug 2018 13:56

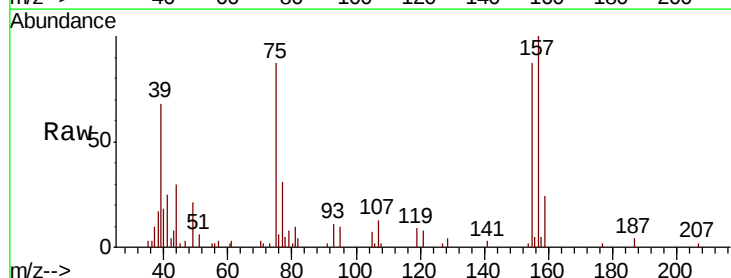
Tgt Ion: 75 Resp: 7791

Ion Ratio Lower Upper

75 100

155 106.1 49.8 149.3

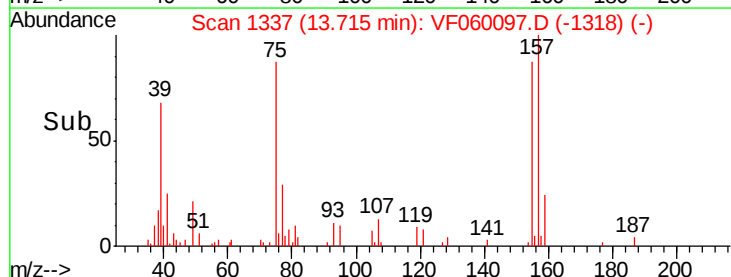
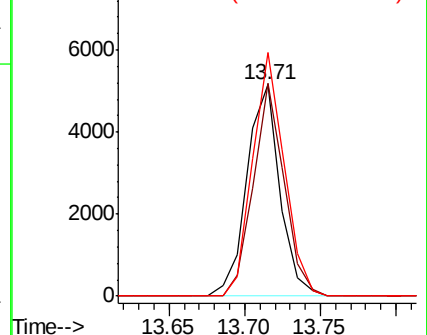
157 115.1 61.6 184.7

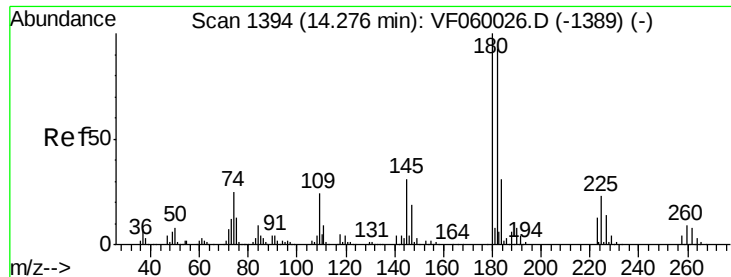


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

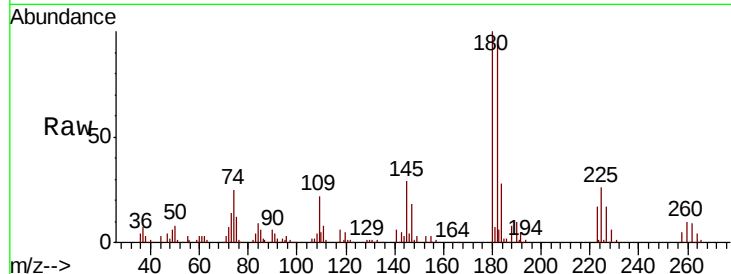




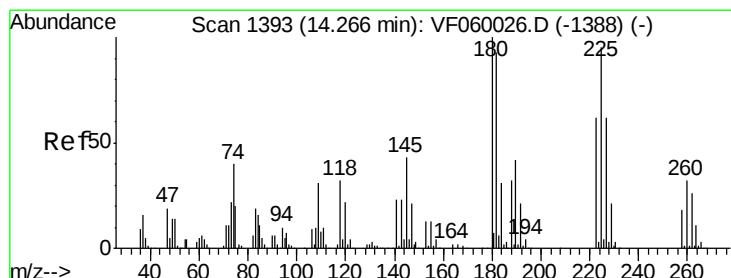
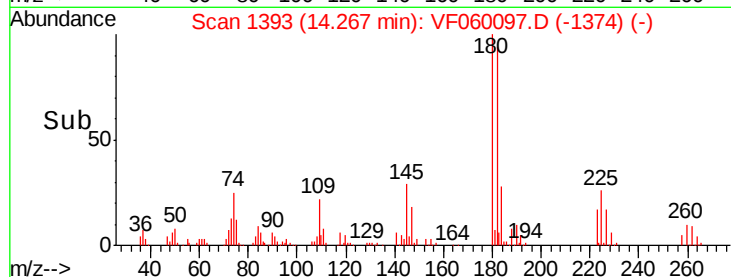
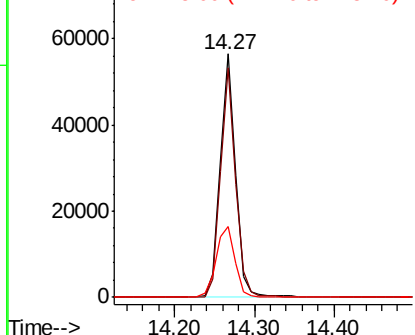
#93
 1,2,4-Trichlorobenzene
 Concen: 20.91 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0824SBS01

Tot Ion:180 Resp: 77491
 Ion Ratio Lower Upper
 180 100
 182 94.3 46.8 140.3
 145 29.2 15.4 46.4

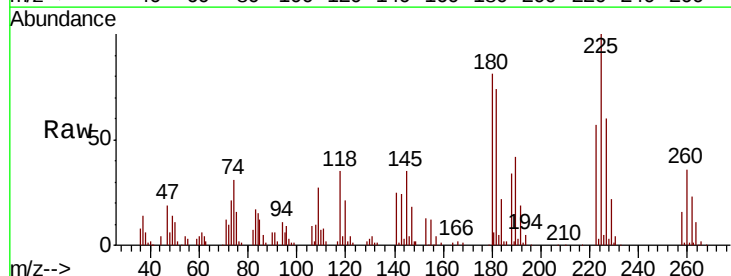


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

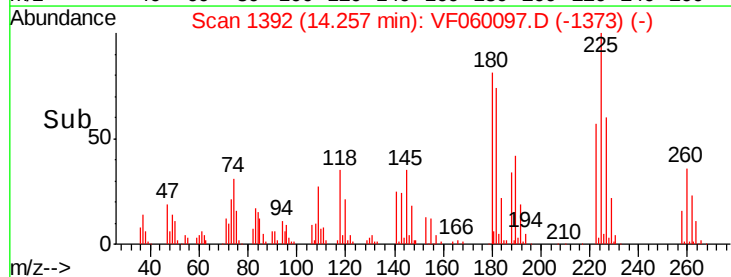
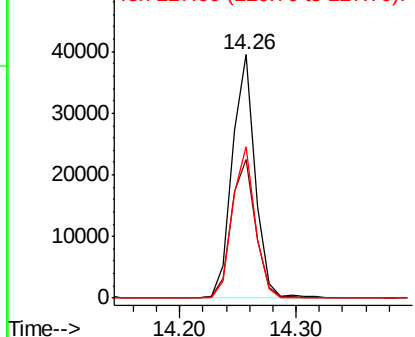


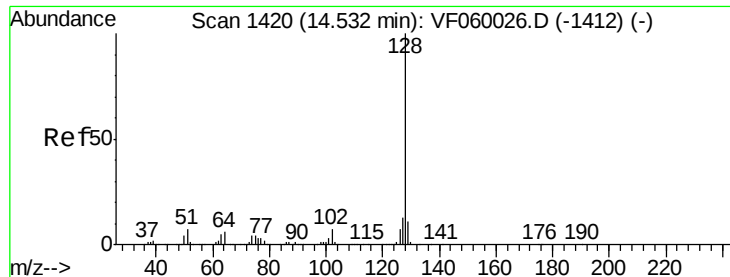
#94
 Hexachlorobutadiene
 Concen: 23.22 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF060097.D
 Acq: 24 Aug 2018 13:56

Tgt Ion:225 Resp: 53571
 Ion Ratio Lower Upper
 225 100
 223 56.9 32.6 97.8
 227 62.3 33.0 98.9



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

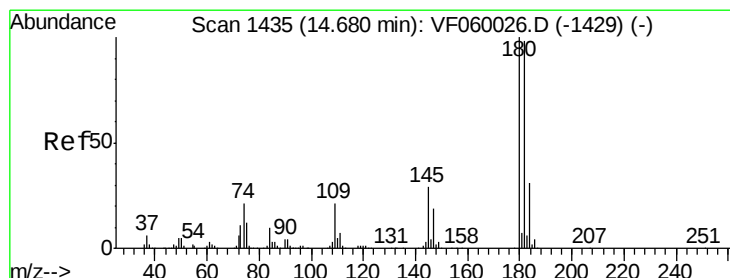
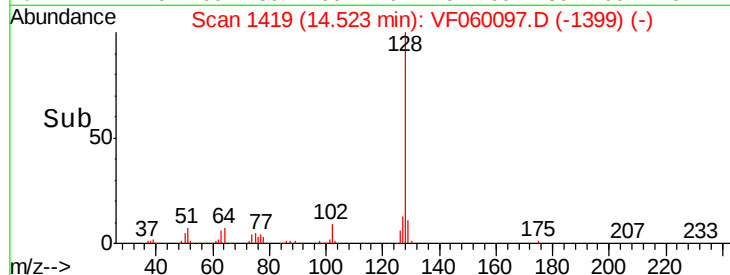
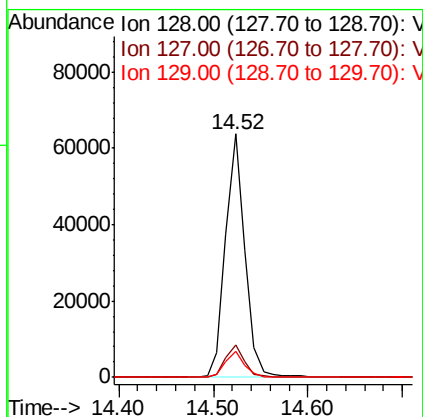
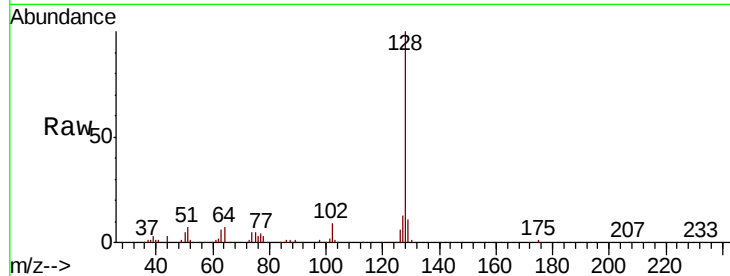




#95
Naphthalene
Concen: 15.78 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Instrument :
MSVOA_F
ClientSampleId :
VF0824SBS01

Tot Ion:128 Resp: 90954
Ion Ratio Lower Upper
128 100
127 13.5 10.4 15.6
129 10.7 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 19.34 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. -0.01 min
Lab File: VF060097.D
Acq: 24 Aug 2018 13:56

Tgt Ion:180 Resp: 68391
Ion Ratio Lower Upper
180 100
182 92.6 49.0 147.2
145 28.5 14.4 43.2

