

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF031619\
 Data File : VF061974.D
 Acq On : 16 Mar 2019 11:39
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 22 02:33:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:28:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	272596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	417477	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	348559	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	188827	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	40940	20.86	ug/l	0.00
Spiked Amount						
			Recovery	=	41.72%	
35) Dibromofluoromethane	4.12	113	58814	20.98	ug/l	0.00
Spiked Amount						
			Recovery	=	41.96%	
50) Toluene-d8	7.55	98	173773	21.20	ug/l	0.00
Spiked Amount						
			Recovery	=	42.40%	
62) 4-Bromofluorobenzene	11.42	95	68502	21.04	ug/l	0.00
Spiked Amount						
			Recovery	=	42.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	66643	22.933	ug/l	84
3) Chloromethane	1.09	50	66620	22.559	ug/l #	84
4) Vinyl Chloride	1.14	62	64610	22.622	ug/l	98
5) Bromomethane	1.31	94	43097	21.480	ug/l #	79
6) Chloroethane	1.38	64	33972	23.041	ug/l	96
7) Trichlorofluoromethane	1.48	101	84426	22.312	ug/l	88
8) Diethyl Ether	1.63	74	17076	20.300	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.82	101	58248	21.849	ug/l	98
10) Methyl Iodide	1.90	142	79064	16.945	ug/l	99
11) Tert butyl alcohol	2.57	59	12026	100.157	ug/l #	78
12) 1,1-Dichloroethene	1.79	96	49477	21.505	ug/l	92
13) Acrolein	2.00	56	14567	112.381	ug/l	96
14) Allyl chloride	2.10	41	72246	24.600	ug/l	92
15) Acrylonitrile	2.95	53	37188	101.848	ug/l	97
16) Acetone	2.25	43	46336	105.158	ug/l	94
17) Carbon Disulfide	1.82	76	151854	22.822	ug/l #	95
18) Methyl Acetate	2.35	43	19210	20.524	ug/l #	87
19) Methyl tert-butyl Ether	2.43	73	89593	21.491	ug/l	94
20) Methylene Chloride	2.18	84	20235	8.920	ug/l	93
21) trans-1,2-Dichloroethene	2.31	96	52280	21.775	ug/l	96
22) Diisopropyl ether	2.80	45	158245	22.401	ug/l #	91
23) Vinyl Acetate	3.19	43	310783	111.602	ug/l	97
24) 1,1-Dichloroethane	2.88	63	91196	22.202	ug/l	99
25) 2-Butanone	4.34	43	89238	102.260	ug/l	95
26) 2,2-Dichloropropane	3.60	77	42852	22.118	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	68023	22.478	ug/l	96
28) Bromochloromethane	3.72	49	32442	19.035	ug/l	91
29) Tetrahydrofuran	4.08	42	41983	110.623	ug/l	94
30) Chloroform	3.86	83	108635	23.343	ug/l	94
31) Cyclohexane	3.70	56	91939	22.846	ug/l	97
32) 1,1,1-Trichloroethane	4.10	97	77397	25.042	ug/l	96
36) 1,1-Dichloropropene	4.28	75	83269	22.087	ug/l	99
37) Ethyl Acetate	4.12	43	37995	22.445	ug/l	92
38) Carbon Tetrachloride	3.98	117	63677	23.111	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	98235	22.195	ug/l	99
40) Benzene	4.63	78	231113	23.135	ug/l	98
41) Methacrylonitrile	4.75	41	17127	18.937	ug/l #	89
42) 1,2-Dichloroethane	4.95	62	53363	21.458	ug/l	97
43) Isopropyl Acetate	6.96	43	40930	20.436	ug/l #	97
44) Trichloroethene	5.50	130	67561	22.077	ug/l	97
45) 1,2-Dichloropropane	6.24	63	54821	23.189	ug/l	98
46) Dibromomethane	6.08	93	31912	22.691	ug/l	85
47) Bromodichloromethane	6.39	83	69718	21.027	ug/l	99
48) Methyl methacrylate	6.71	41	25632	19.802	ug/l #	85
49) 1,4-Dioxane	6.72	88	4759	413.330	ug/l #	74
51) 4-Methyl-2-Pentanone	8.26	43	154246	108.454	ug/l	98
52) Toluene	7.63	92	137907	22.594	ug/l	92
53) t-1,3-Dichloropropene	8.28	75	62376	22.284	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	80538	22.051	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	36733	21.563	ug/l	98
56) Ethyl methacrylate	8.63	69	42883	22.144	ug/l	89
57) 1,3-Dichloropropane	8.85	76	63002	22.171	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.29	63	34453	98.225	ug/l	96
59) 2-Hexanone	9.49	43	104472	101.500	ug/l	96
60) Dibromochloromethane	8.71	129	50316	21.276	ug/l	91
61) 1,2-Dibromoethane	8.99	107	39570	21.655	ug/l	97
64) Tetrachloroethene	8.15	164	56171	22.170	ug/l	95
65) Chlorobenzene	9.80	112	147824	22.779	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	59314	23.580	ug/l	97
67) Ethyl Benzene	9.90	91	259152	23.323	ug/l	98
68) m/p-Xylenes	10.13	106	200748	48.036	ug/l	94
69) o-Xylene	10.72	106	99668	22.288	ug/l	90
70) Styrene	10.80	104	145496	23.485	ug/l	98
71) Bromoform	10.78	173	26636	20.934	ug/l	88
73) Isopropylbenzene	11.12	105	303833	23.291	ug/l	97
74) N-amyl acetate	11.38	43	63877	21.370	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	46748	21.710	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	32072	21.300	ug/l	95
77) Bromobenzene	11.50	156	68543	22.688	ug/l	93
78) n-propylbenzene	11.59	91	353825	23.588	ug/l	96
79) 2-Chlorotoluene	11.72	91	187337	22.126	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	241278	22.896	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	20115	30.198	ug/l	96
82) 4-Chlorotoluene	11.90	91	193469	22.596	ug/l	98
83) tert-Butylbenzene	12.13	119	260109	23.602	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	238490	22.595	ug/l	96
85) sec-Butylbenzene	12.30	105	338390	22.726	ug/l	100
86) p-Isopropyltoluene	12.46	119	283163	22.791	ug/l	96
87) 1,3-Dichlorobenzene	12.47	146	135098	22.753	ug/l	99
88) 1,4-Dichlorobenzene	12.57	146	128560	22.495	ug/l	95
89) n-Butylbenzene	12.85	91	273116	23.393	ug/l	96
90) Hexachloroethane	12.92	117	65274	23.021	ug/l	91
91) 1,2-Dichlorobenzene	12.94	146	124761	22.687	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7138	20.658	ug/l	82

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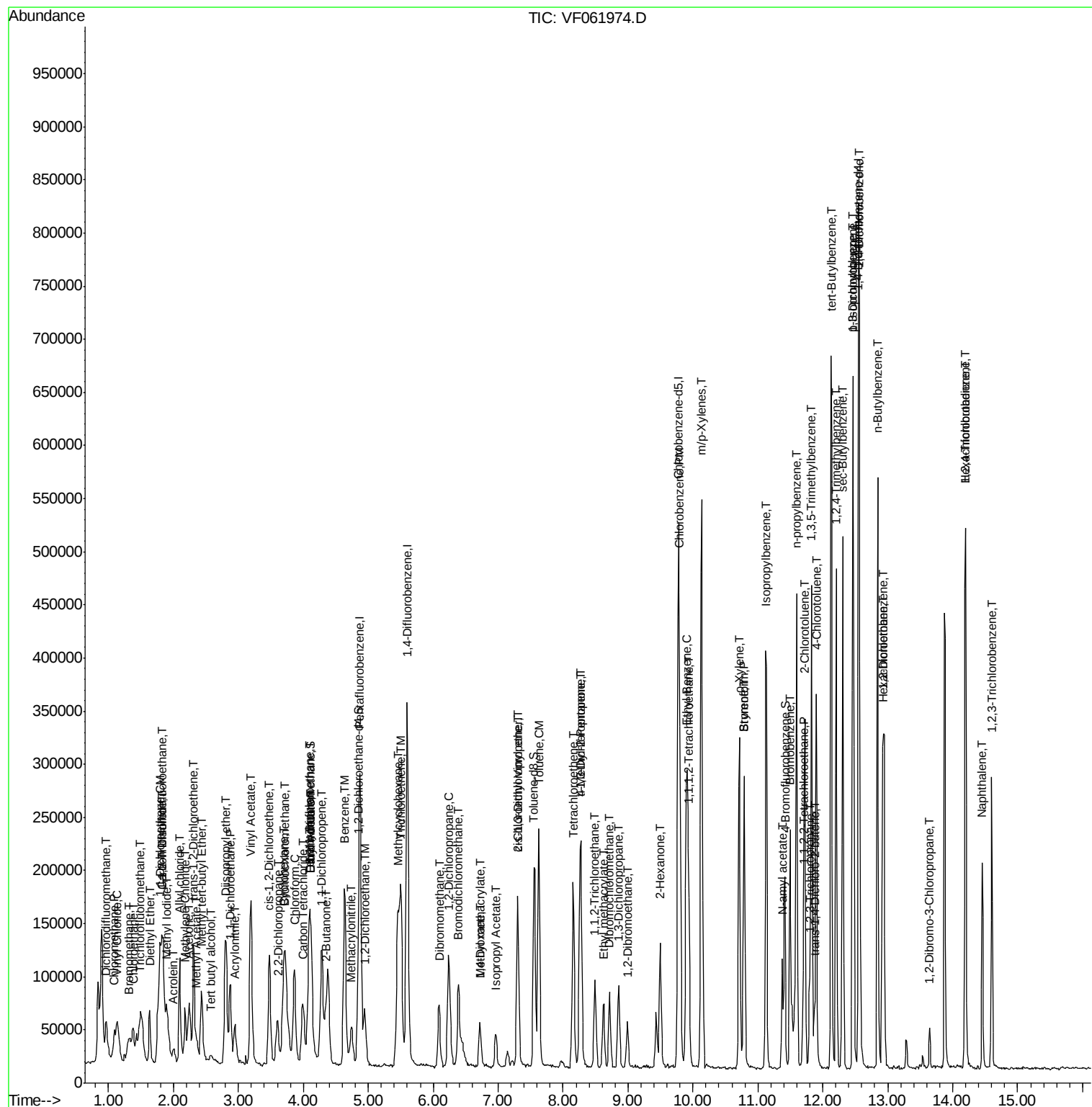
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	86982	22.713	ug/l	96
94) Hexachlorobutadiene	14.19	225	55963	22.013	ug/l	96
95) Naphthalene	14.45	128	143578	20.846	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	79225	22.487	ug/l	99

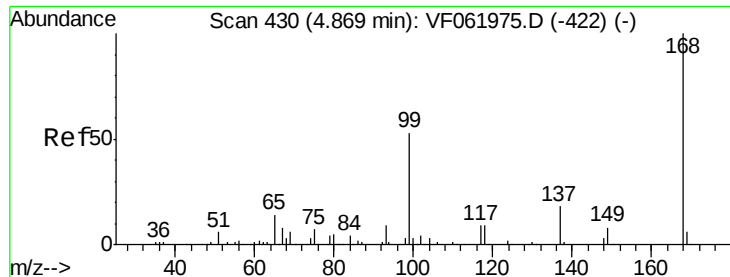
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

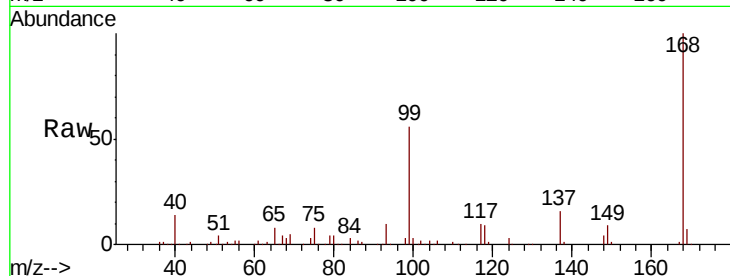
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 272596

Ion Ratio Lower Upper

168 100

99 55.8 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

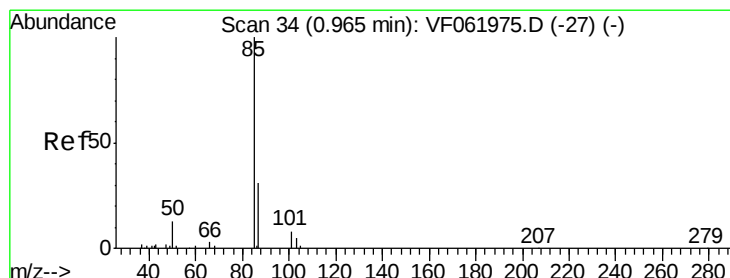
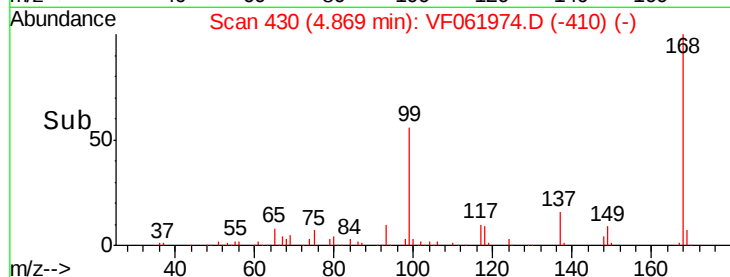
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 22.933 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061974.D

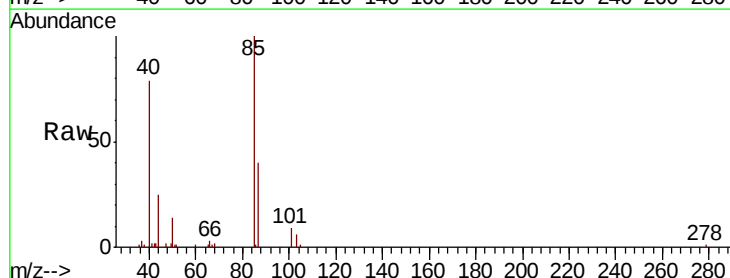
Acq: 16 Mar 2019 11:39

Tgt Ion: 85 Resp: 66643

Ion Ratio Lower Upper

85 100

87 39.7 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

20000

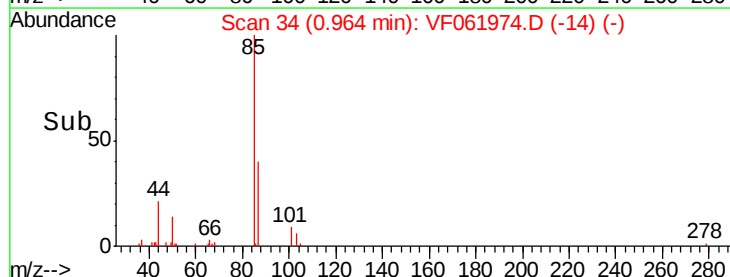
15000

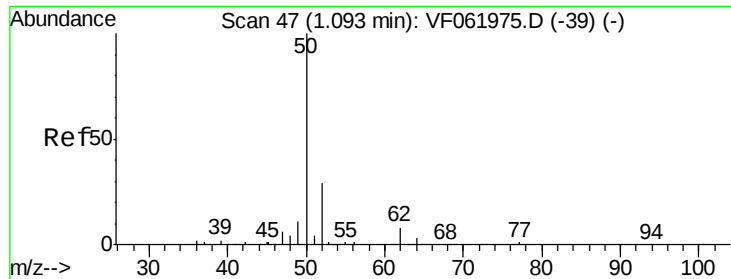
10000

5000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 22.559 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

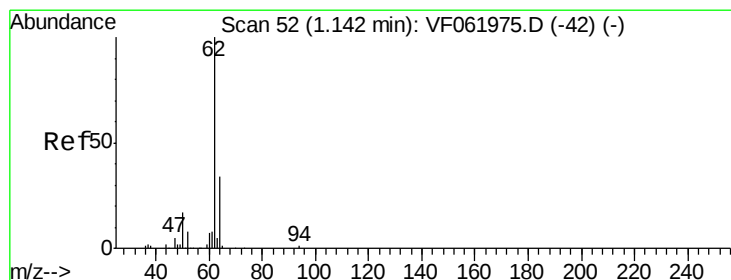
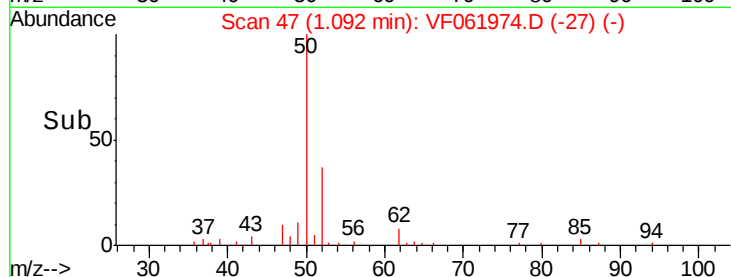
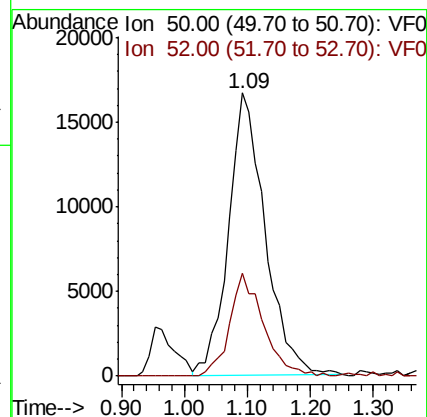
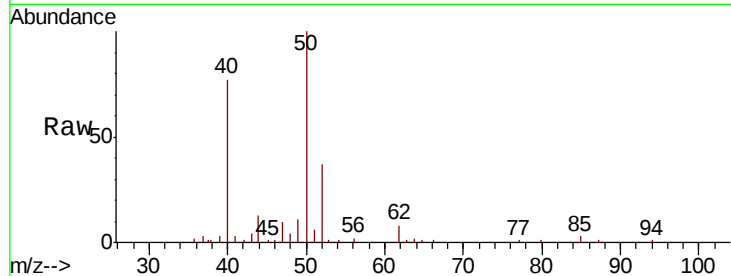
ClientSampleId :

Tot Ion: 50 Resp: 66620

Ion Ratio Lower Upper

50 100

52 36.5 22.6 34.0#



#4

Vinyl Chloride

Concen: 22.622 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061974.D

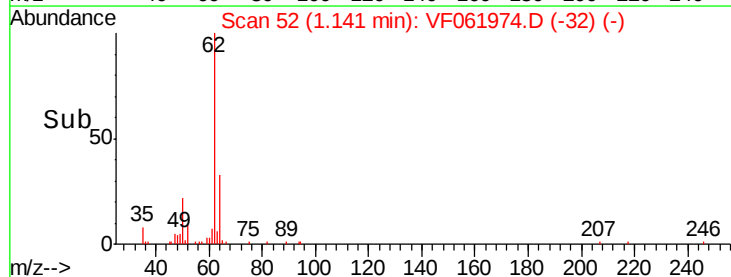
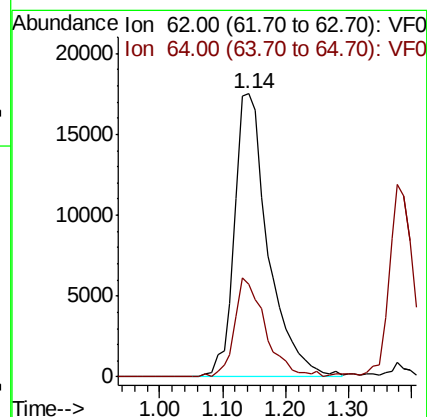
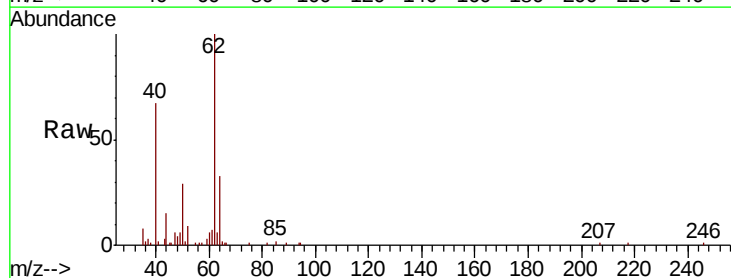
Acq: 16 Mar 2019 11:39

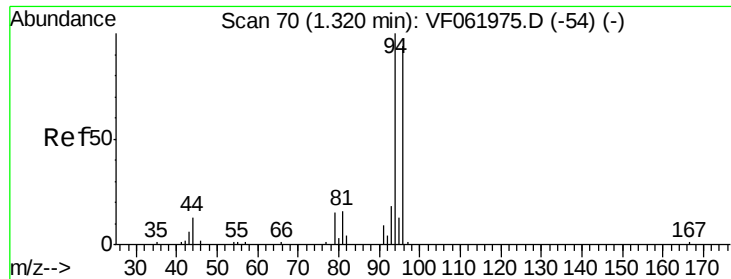
Tgt Ion: 62 Resp: 64610

Ion Ratio Lower Upper

62 100

64 32.9 27.4 41.2





#5

Bromomethane

Concen: 21.480 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

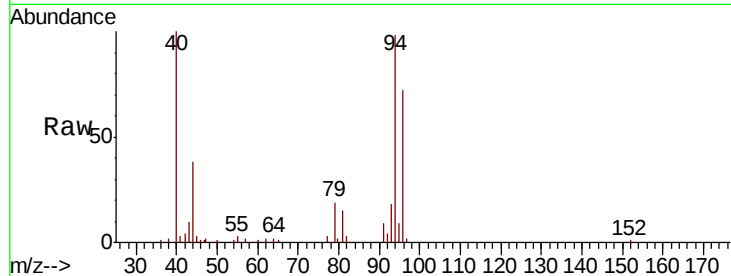
ClientSampleId :

Tot Ion: 94 Resp: 43097

Ion Ratio Lower Upper

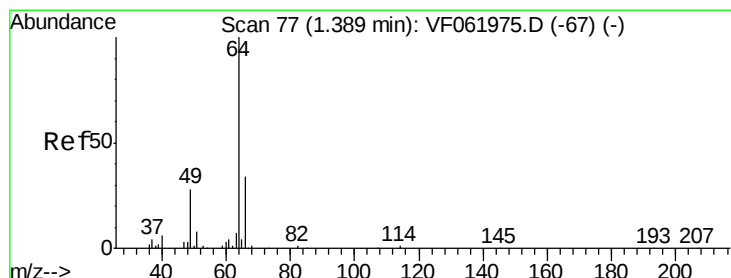
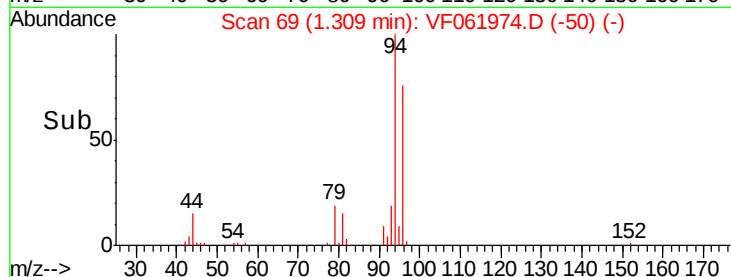
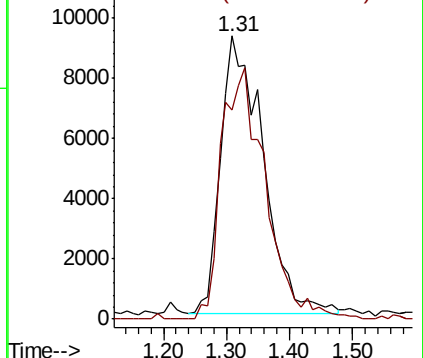
94 100

96 73.7 75.0 112.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 23.041 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061974.D

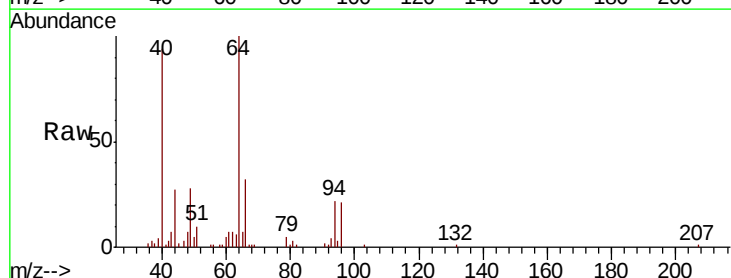
Acq: 16 Mar 2019 11:39

Tgt Ion: 64 Resp: 33972

Ion Ratio Lower Upper

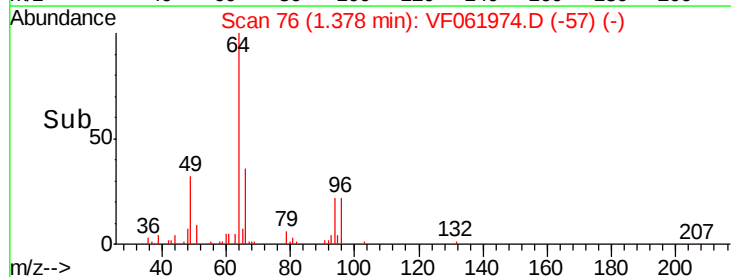
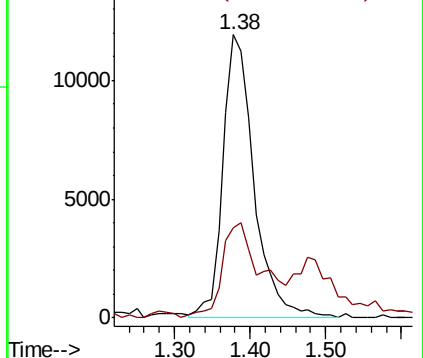
64 100

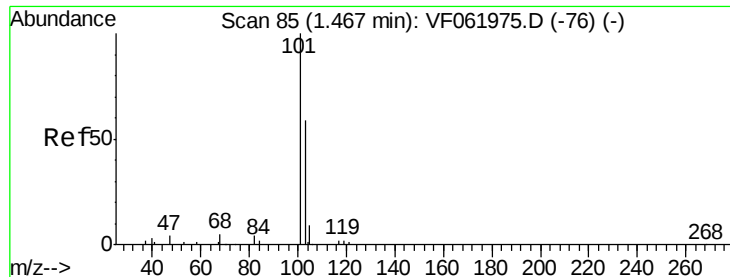
66 32.0 27.6 41.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



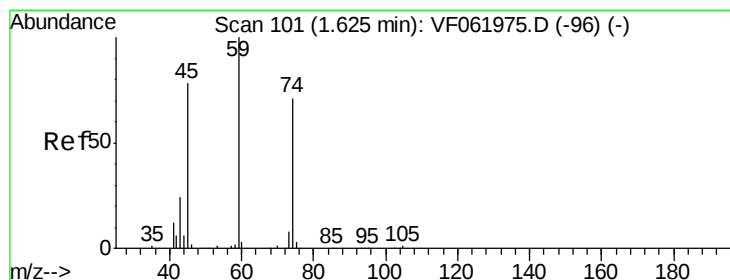
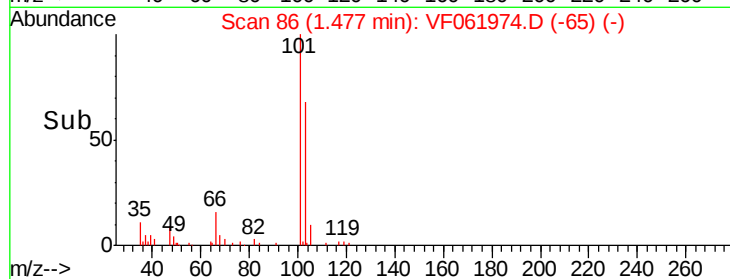
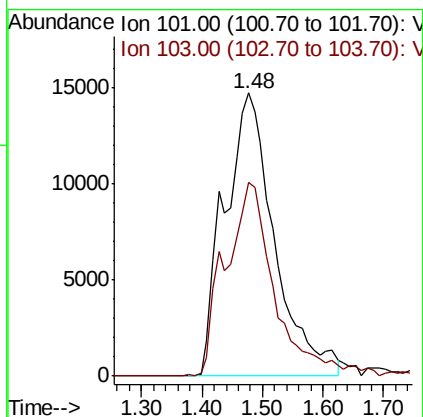
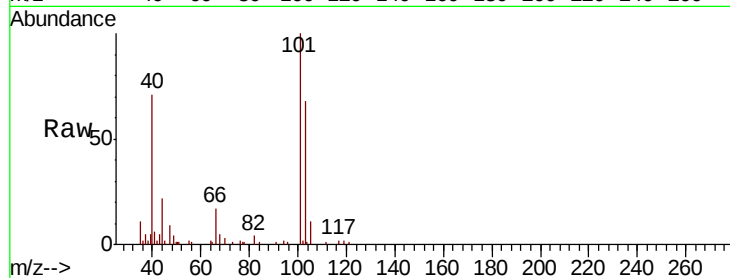


#7

Trichlorofluoromethane
 Concen: 22.312 ug/l
 RT: 1.48 min Scan# 86
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
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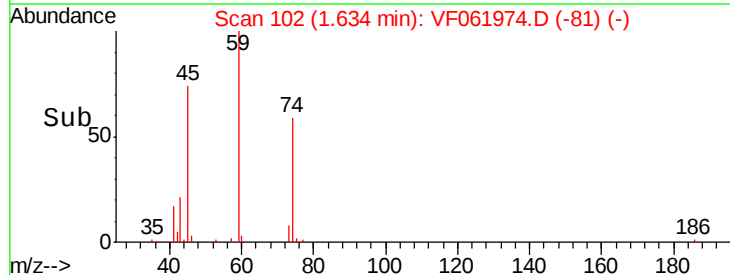
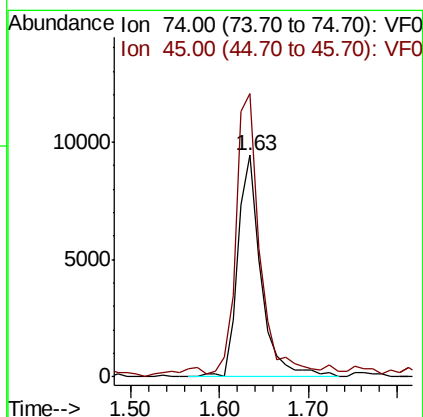
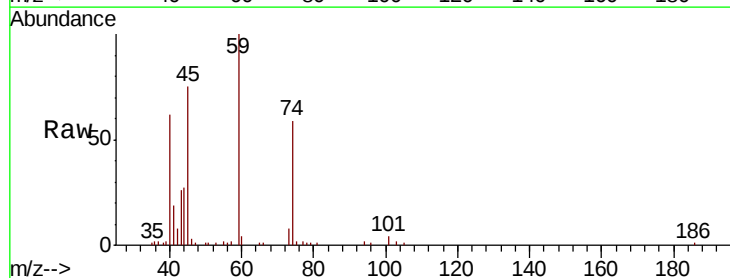
Tot Ion:101 Resp: 84426
 Ion Ratio Lower Upper
 101 100
 103 68.3 47.3 70.9

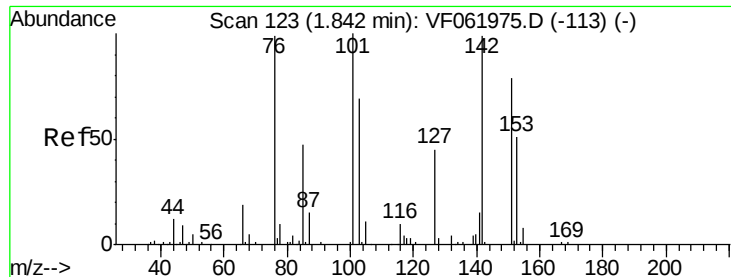


#8

Diethyl Ether
 Concen: 20.300 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion: 74 Resp: 17076
 Ion Ratio Lower Upper
 74 100
 45 127.8 56.3 168.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.849 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

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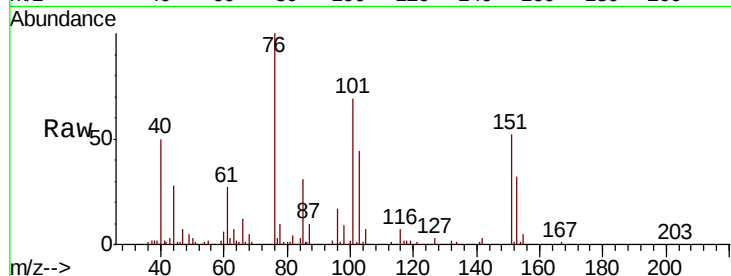
Tot Ion:101 Resp: 58248

Ion Ratio Lower Upper

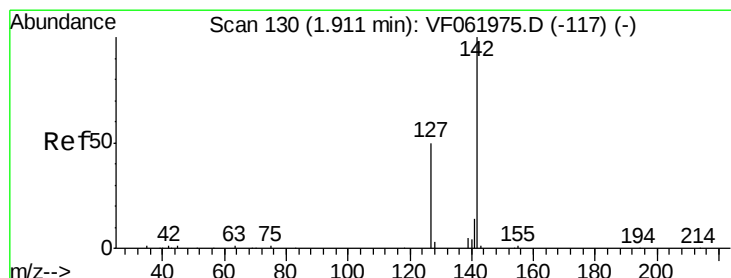
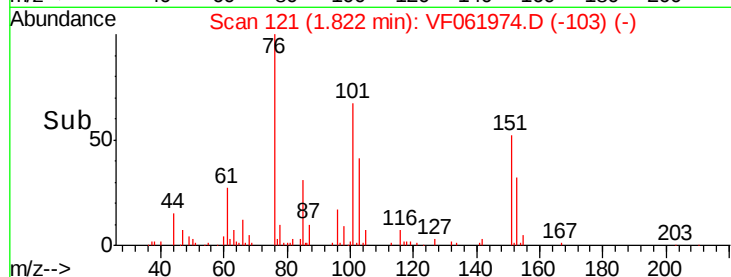
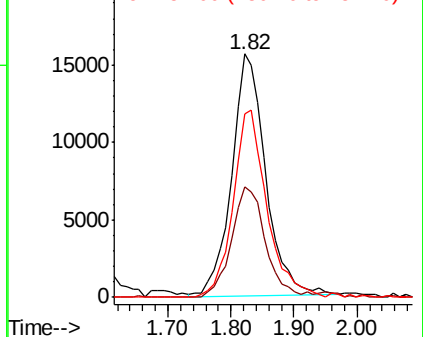
101 100

85 45.3 36.8 55.2

151 75.3 62.2 93.2



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VF0
Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 16.945 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

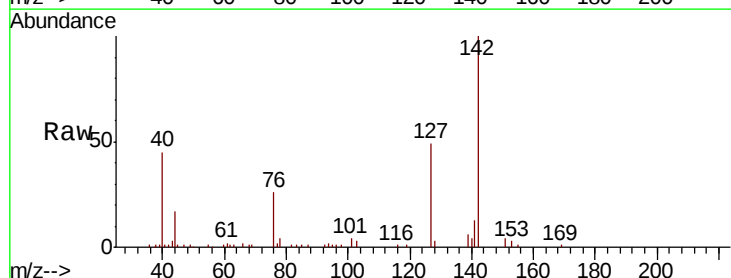
Tgt Ion:142 Resp: 79064

Ion Ratio Lower Upper

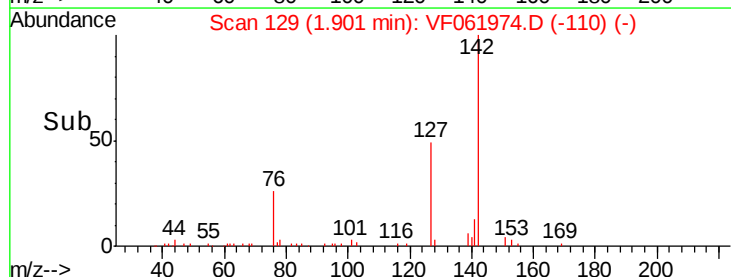
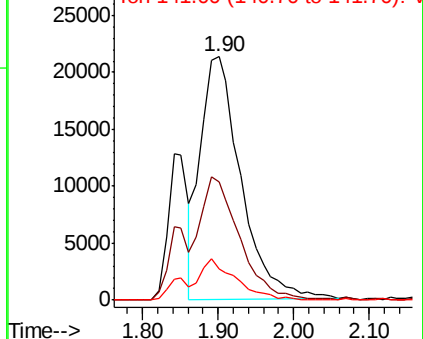
142 100

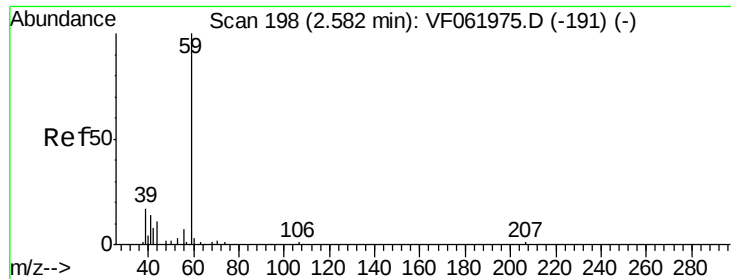
127 48.7 39.7 59.5

141 12.7 10.8 16.2



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



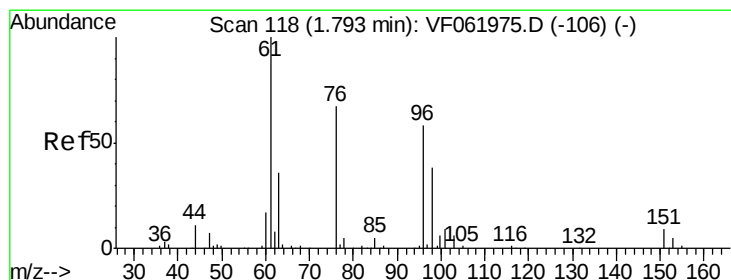
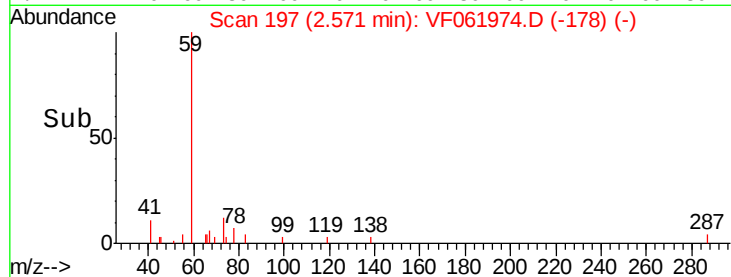
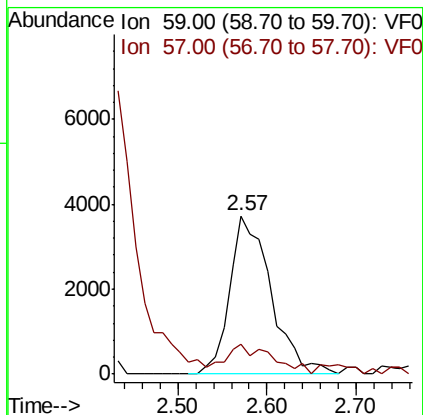
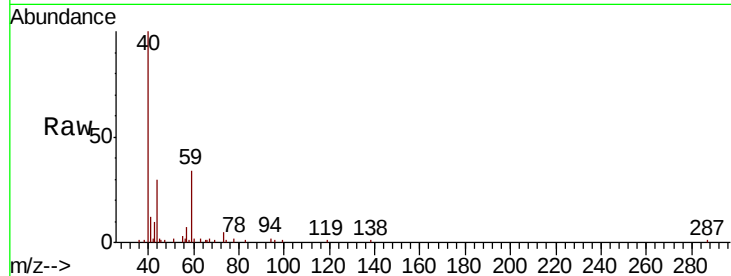


#11

Tert butyl alcohol
Concen: 100.157 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

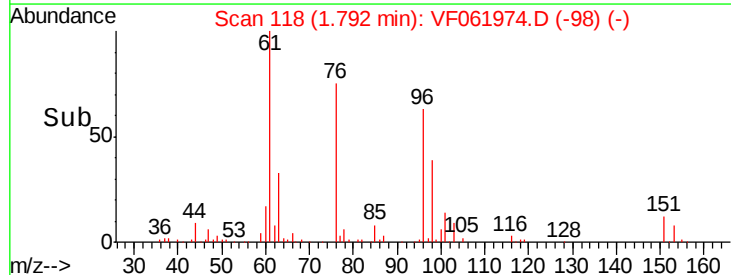
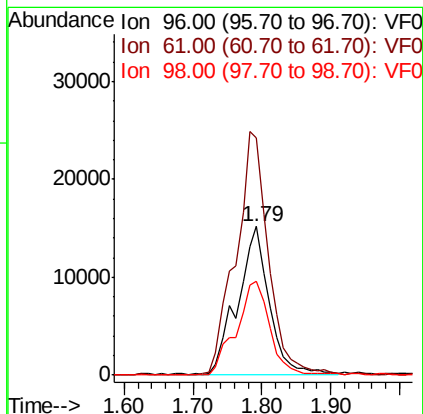
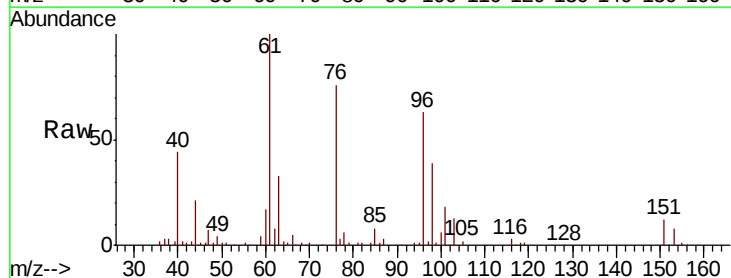
Tot Ion: 59 Resp: 12026
Ion Ratio Lower Upper
59 100
57 19.2 8.7 13.1#

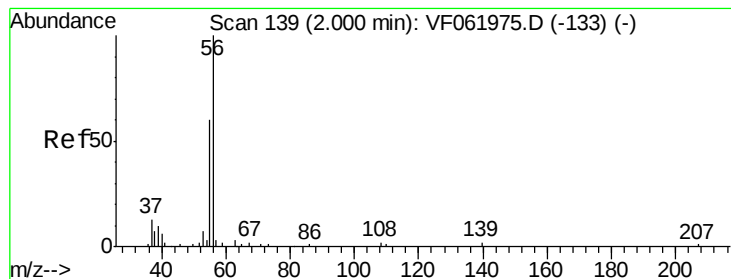


#12

1,1-Dichloroethene
Concen: 21.505 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 96 Resp: 49477
Ion Ratio Lower Upper
96 100
61 159.7 138.6 208.0
98 63.1 53.2 79.8





#13

Acrolein

Concen: 112.381 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

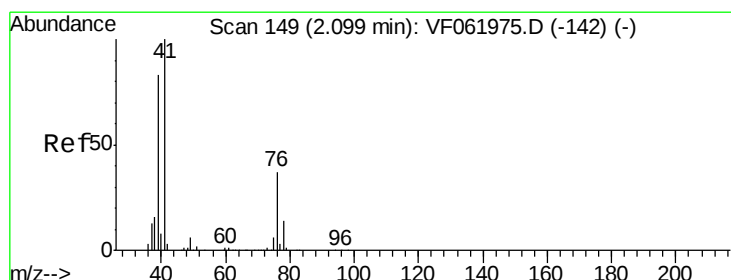
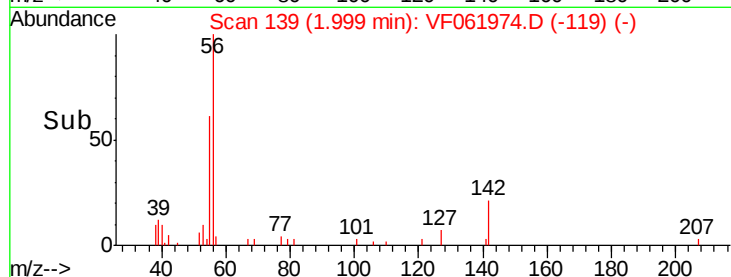
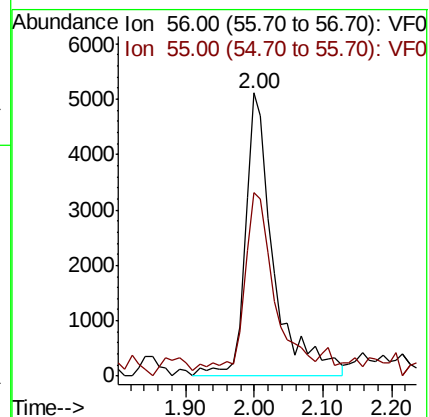
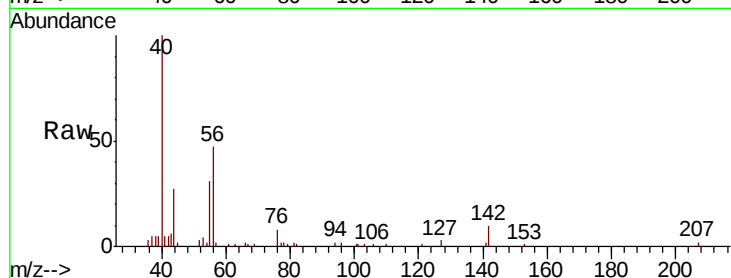
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 14567

Ion Ratio Lower Upper

56 100

55 64.8 49.1 73.7



#14

Allyl chloride

Concen: 24.600 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

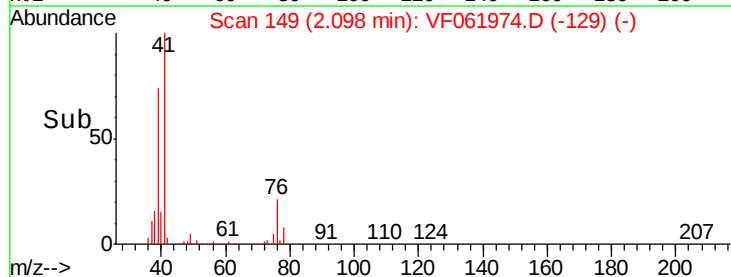
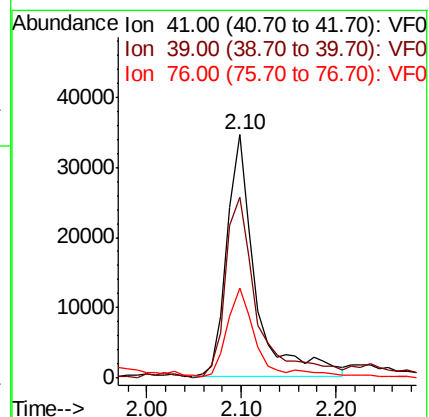
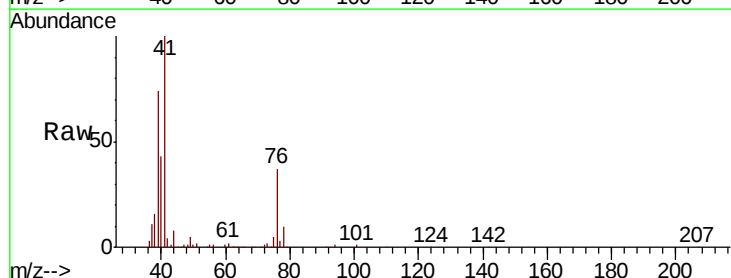
Tgt Ion: 41 Resp: 72246

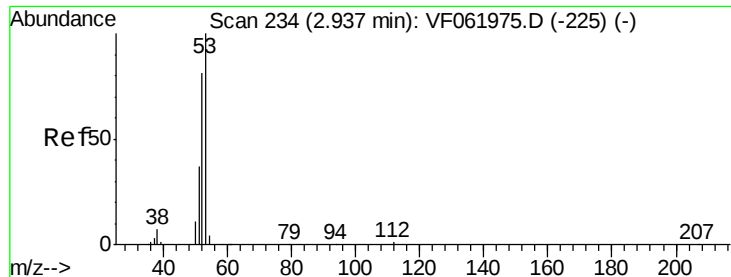
Ion Ratio Lower Upper

41 100

39 74.4 66.8 100.2

76 36.8 31.1 46.7





#15

Acrylonitrile

Concen: 101.848 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

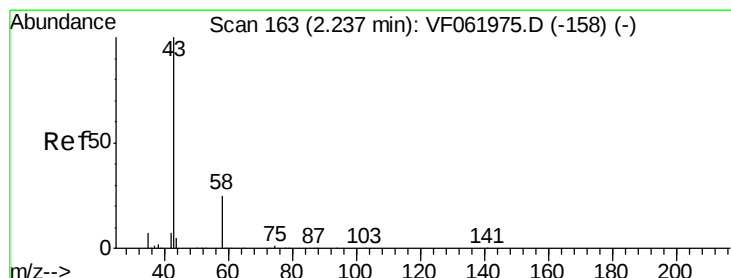
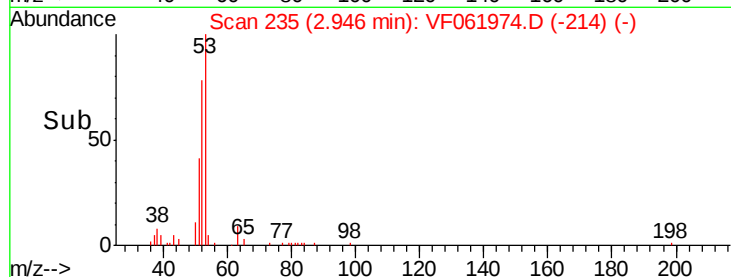
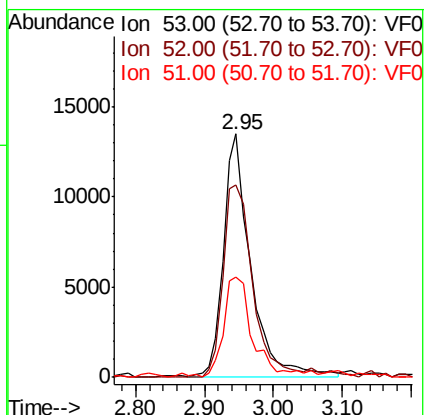
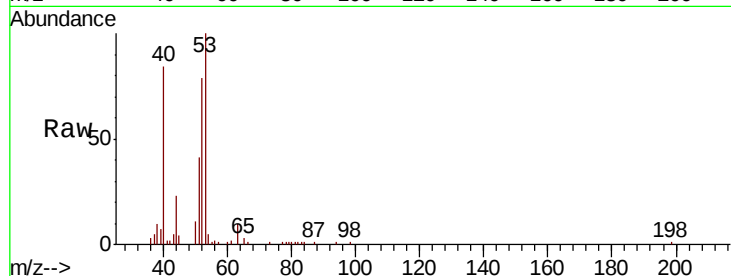
Tot Ion: 53 Resp: 37188

Ion Ratio Lower Upper

53 100

52 79.2 64.4 96.6

51 41.3 30.3 45.5



#16

Acetone

Concen: 105.158 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061974.D

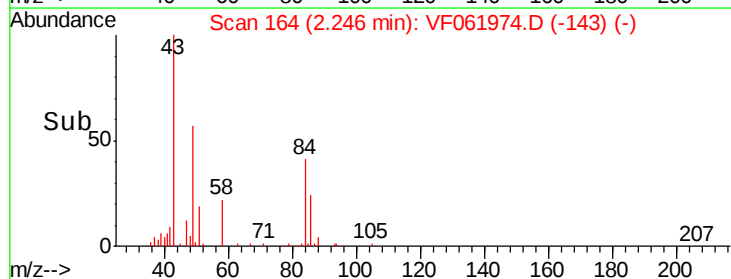
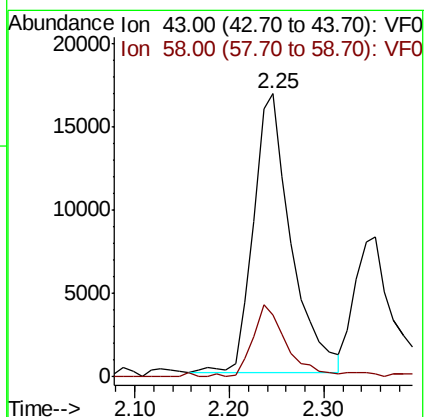
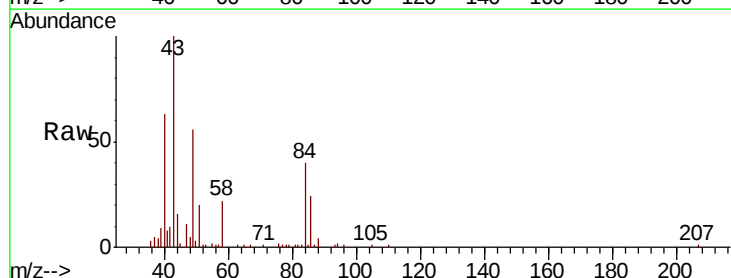
Acq: 16 Mar 2019 11:39

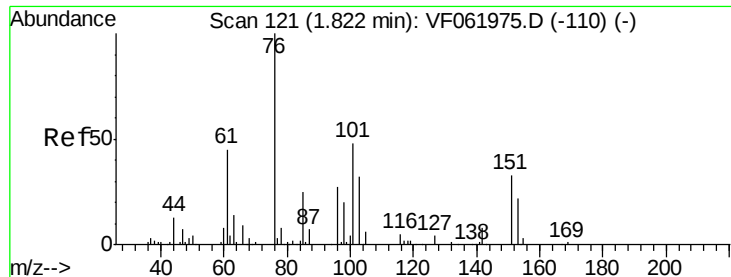
Tgt Ion: 43 Resp: 46336

Ion Ratio Lower Upper

43 100

58 22.1 19.9 29.9

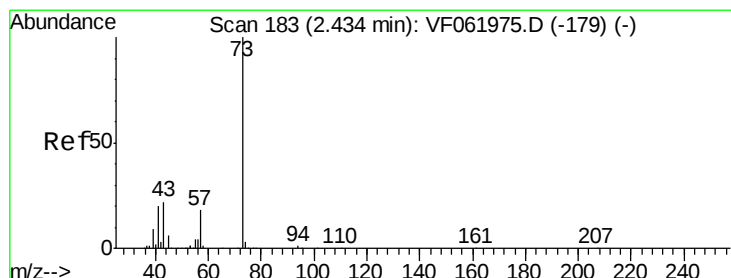
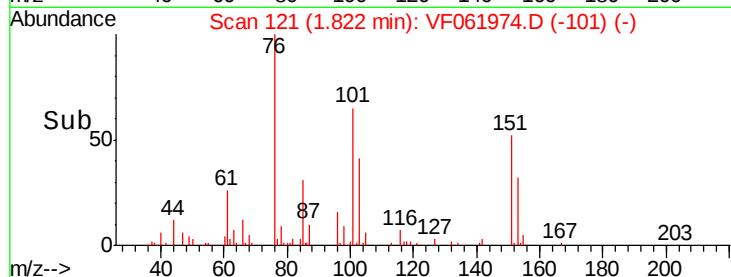
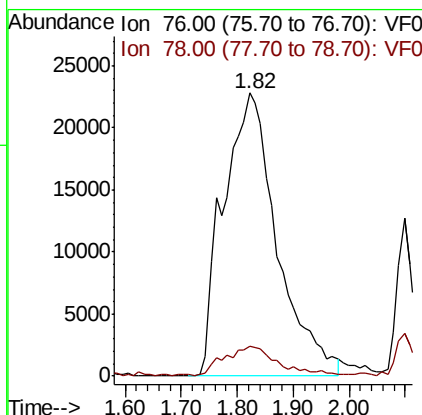
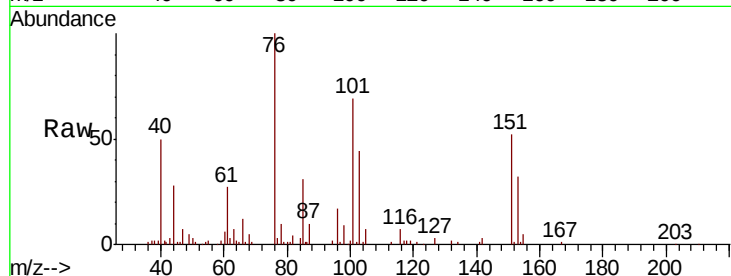




#17
Carbon Disulfide
Concen: 22.822 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

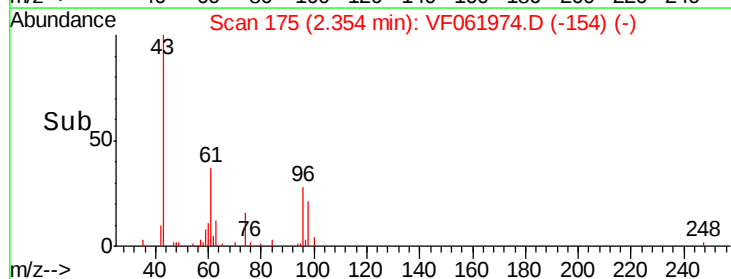
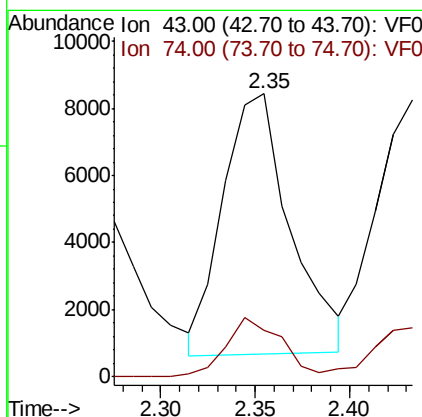
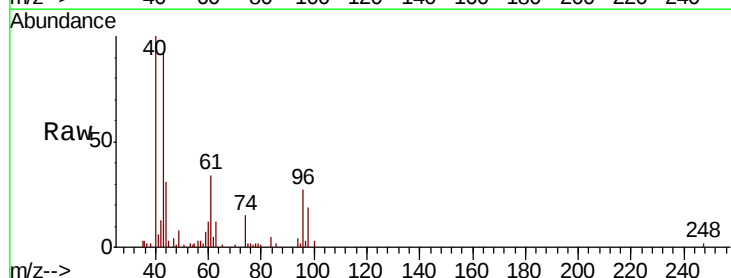
Instrument :
MSVOA_F
ClientSampleId :

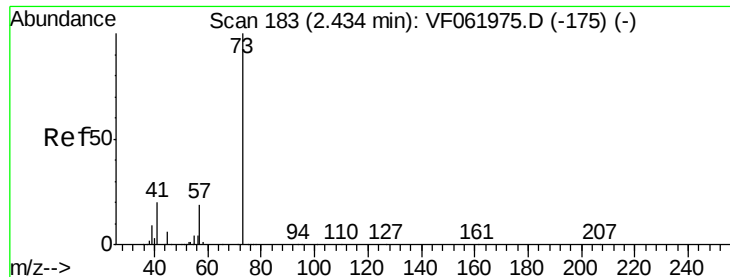
Tot Ion: 76 Resp: 151854
Ion Ratio Lower Upper
76 100
78 10.4 6.8 10.2#



#18
Methyl Acetate
Concen: 20.524 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 43 Resp: 19210
Ion Ratio Lower Upper
43 100
74 16.4 18.3 27.5#



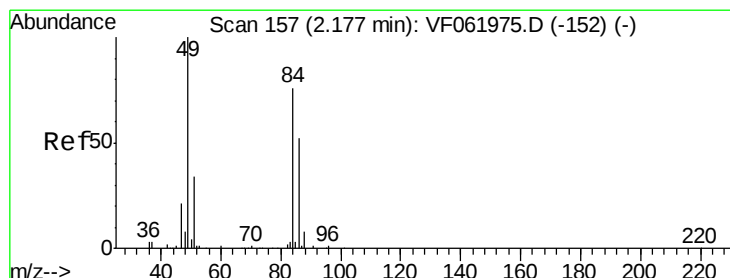
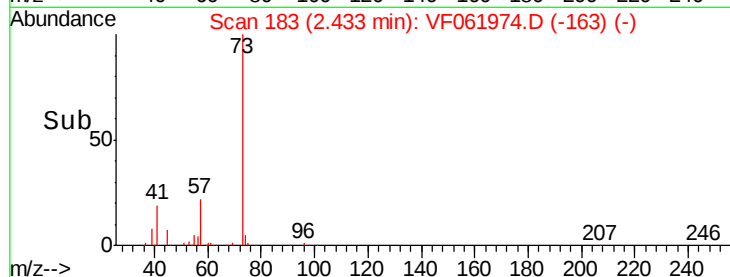
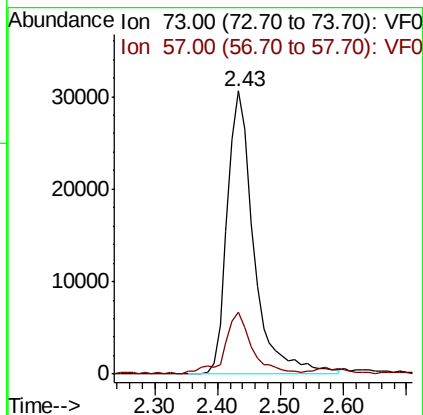
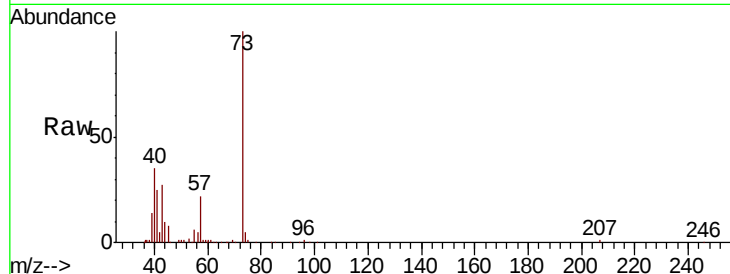


#19

Methyl tert-butyl Ether
 Concen: 21.491 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :

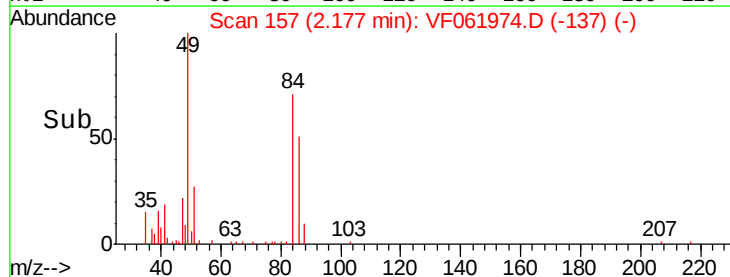
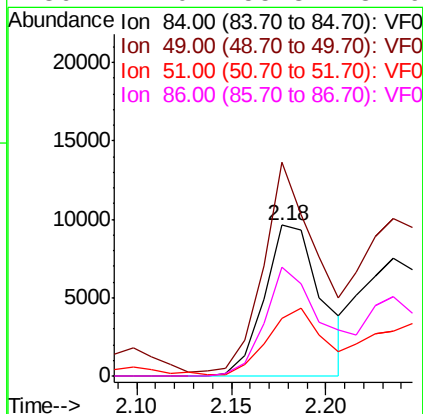
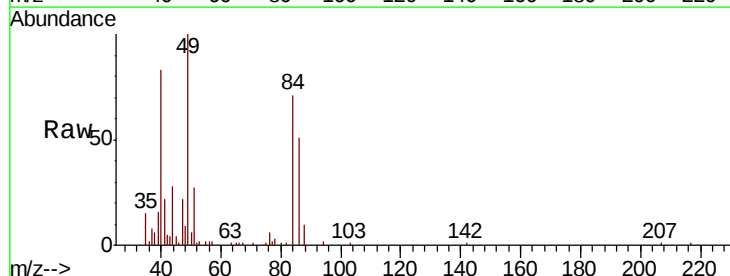
Tot Ion: 73 Resp: 89593
 Ion Ratio Lower Upper
 73 100
 57 21.8 15.3 22.9

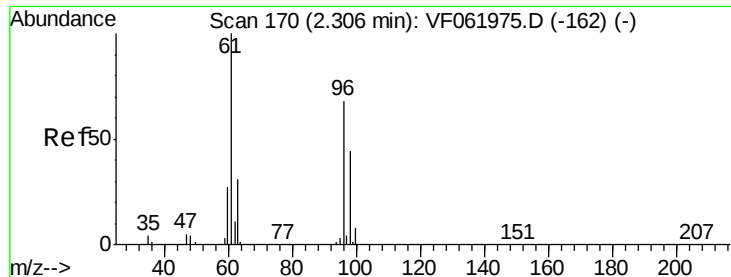


#20

Methylene Chloride
 Concen: 8.920 ug/l
 RT: 2.18 min Scan# 157
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion: 84 Resp: 20235
 Ion Ratio Lower Upper
 84 100
 49 141.5 107.0 160.6
 51 38.3 37.2 55.8
 86 72.0 55.3 82.9





#21

trans-1,2-Dichloroethene

Concen: 21.775 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

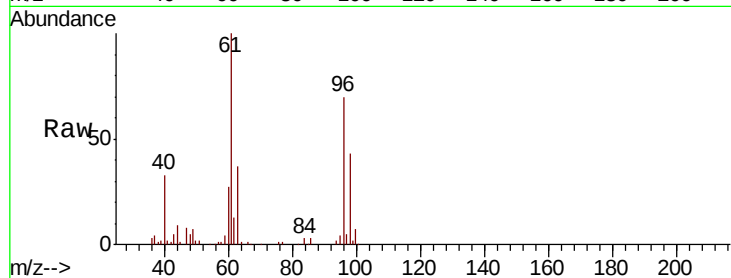
Tot Ion: 96 Resp: 52280

Ion Ratio Lower Upper

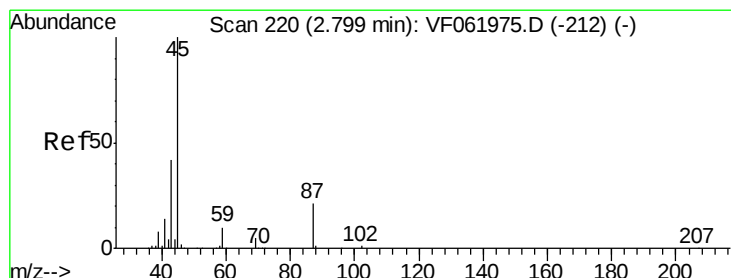
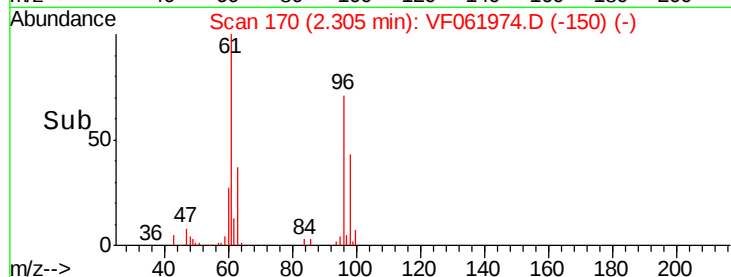
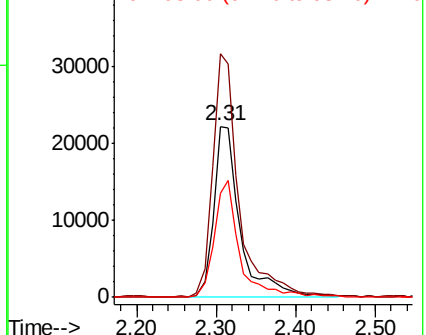
96 100

61 142.3 117.4 176.2

98 60.7 51.2 76.8



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: 22.401 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion: 45 Resp: 158245

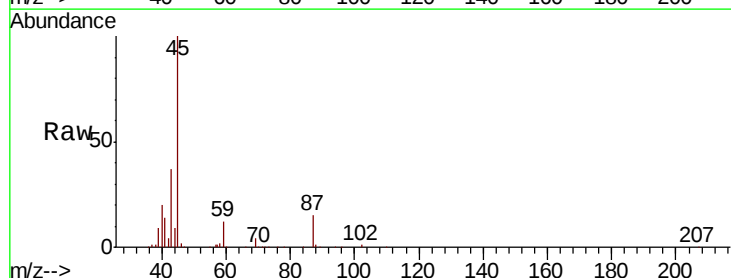
Ion Ratio Lower Upper

45 100

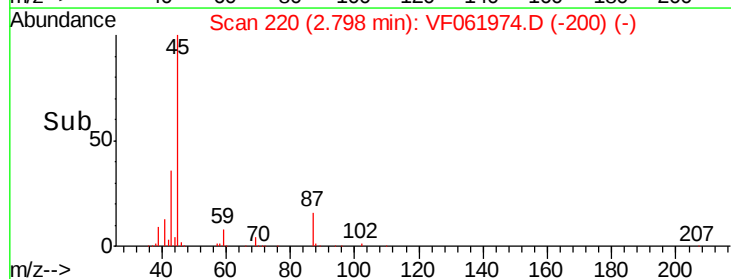
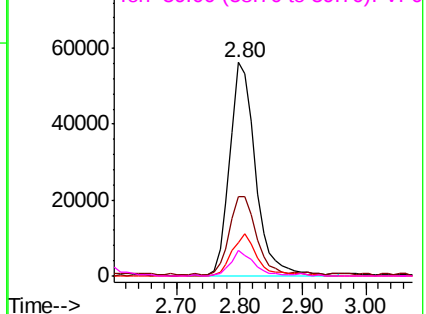
43 37.1 33.7 50.5

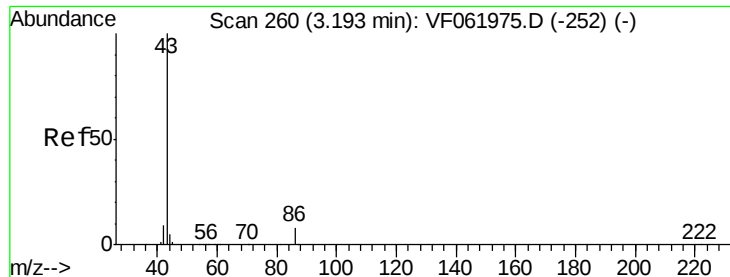
87 15.5 17.1 25.7#

59 11.9 8.0 12.0



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: 111.602 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

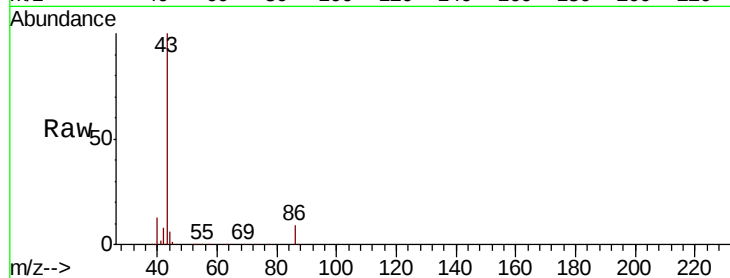
ClientSampleId :

Tot Ion: 43 Resp: 310783

Ion Ratio Lower Upper

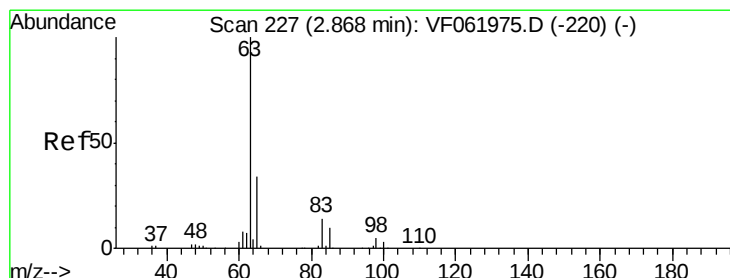
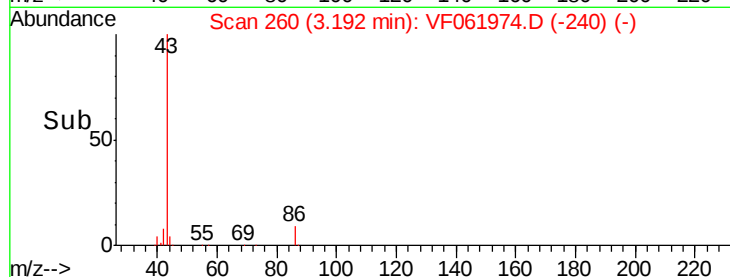
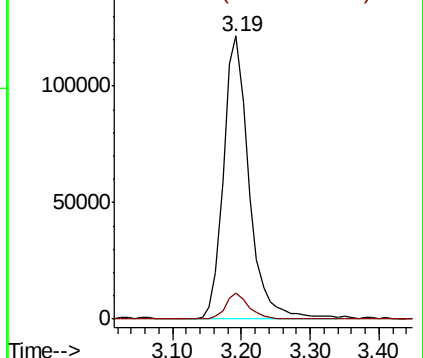
43 100

86 9.0 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 22.202 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

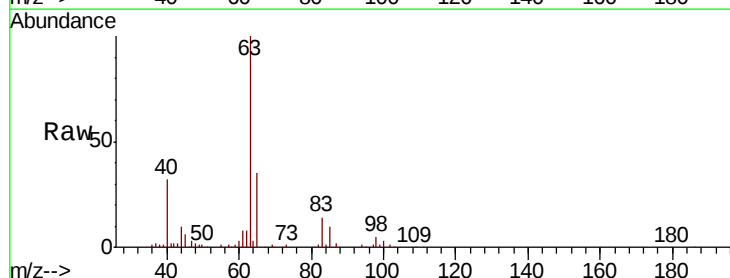
Tgt Ion: 63 Resp: 91196

Ion Ratio Lower Upper

63 100

98 5.2 2.7 8.1

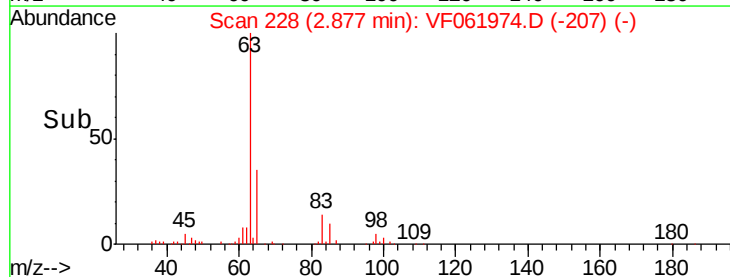
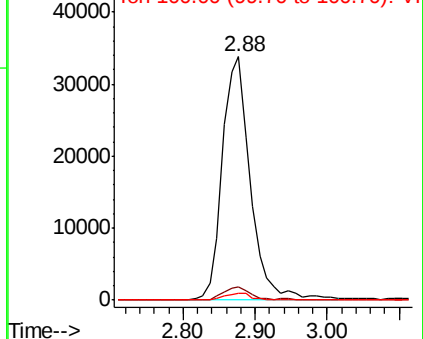
100 3.1 1.7 5.0

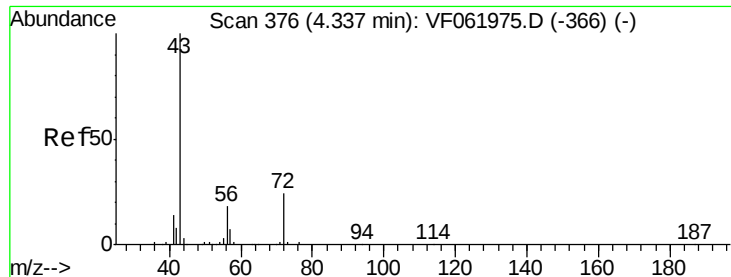


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 102.260 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

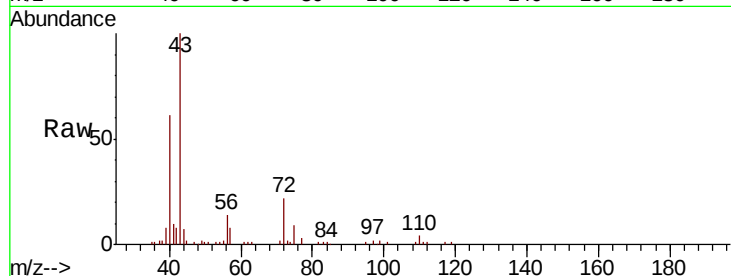
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 89238

Ion Ratio Lower Upper

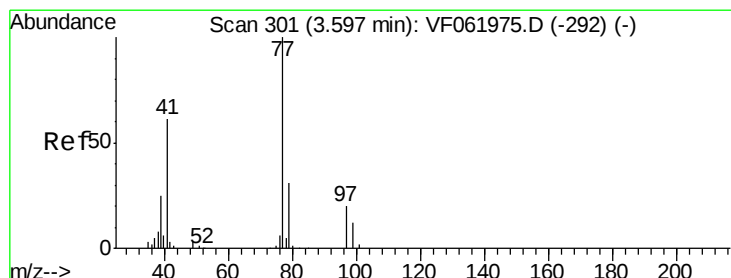
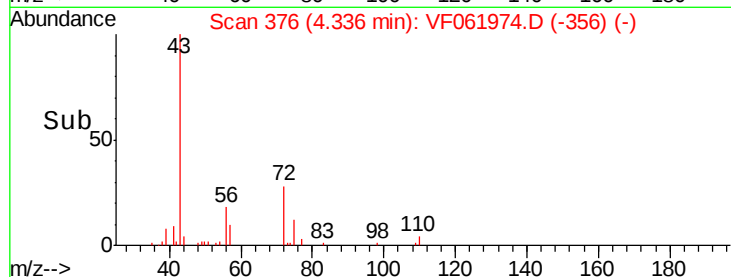
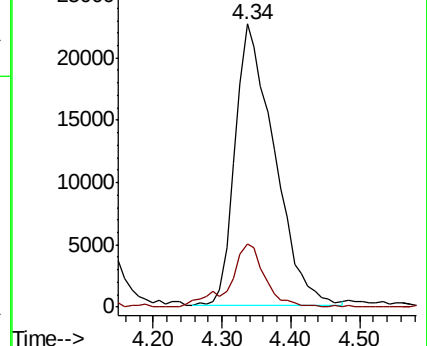
43 100

72 22.2 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 22.118 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.00 min

Lab File: VF061974.D

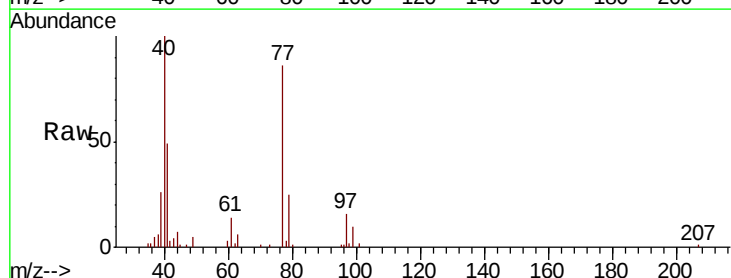
Acq: 16 Mar 2019 11:39

Tgt Ion: 77 Resp: 42852

Ion Ratio Lower Upper

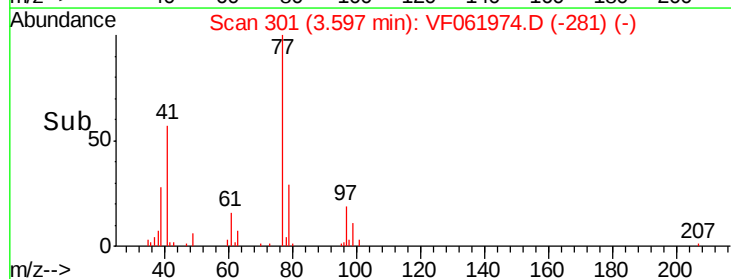
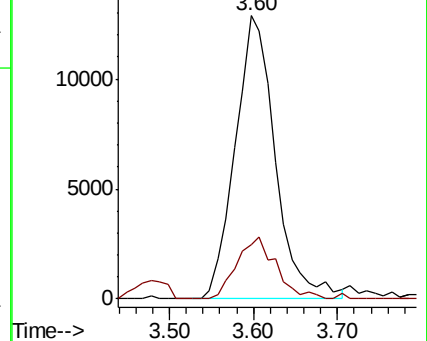
77 100

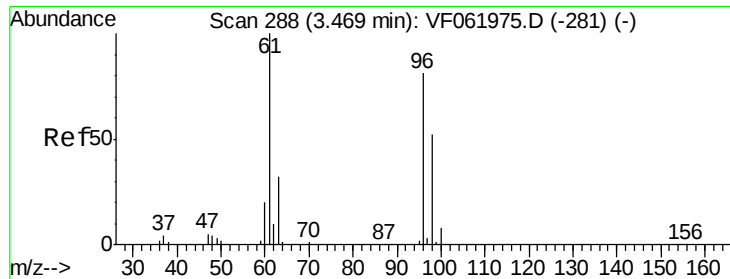
97 19.0 10.8 32.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



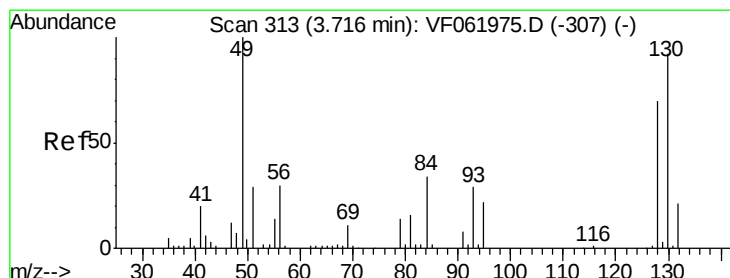
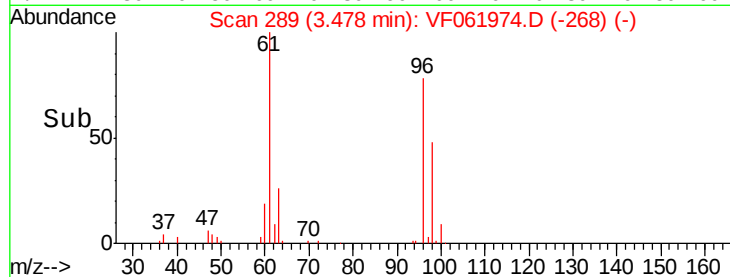
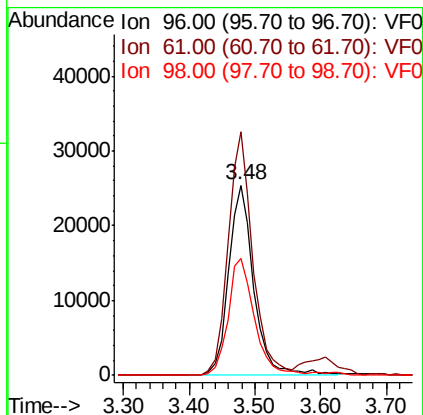
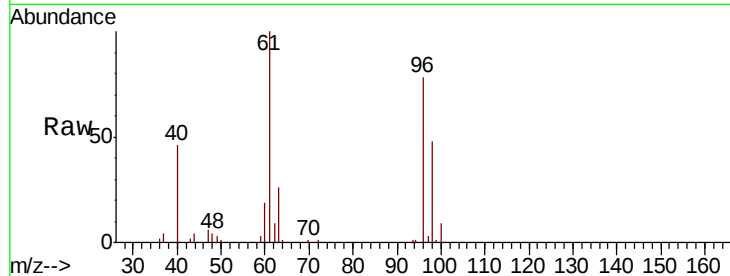


#27

cis-1,2-Dichloroethene
 Concen: 22.478 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :

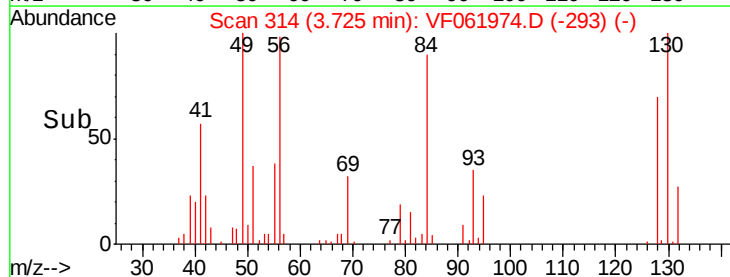
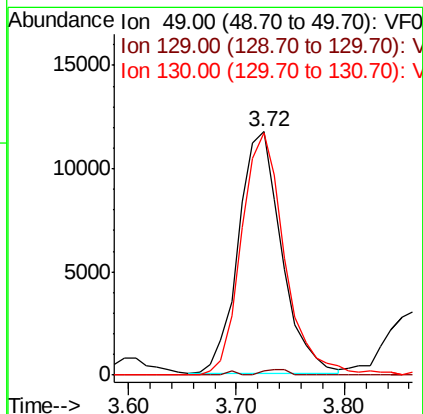
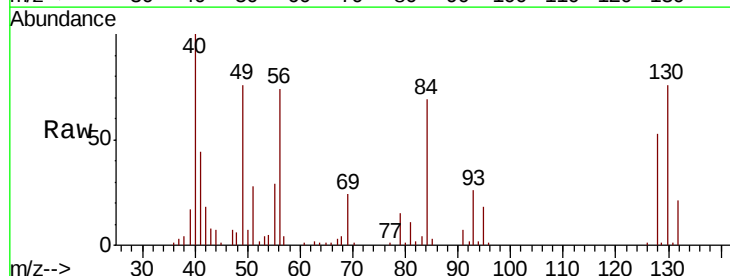
Tot Ion: 96 Resp: 68023
 Ion Ratio Lower Upper
 96 100
 61 128.1 0.0 246.6
 98 61.5 0.0 129.2

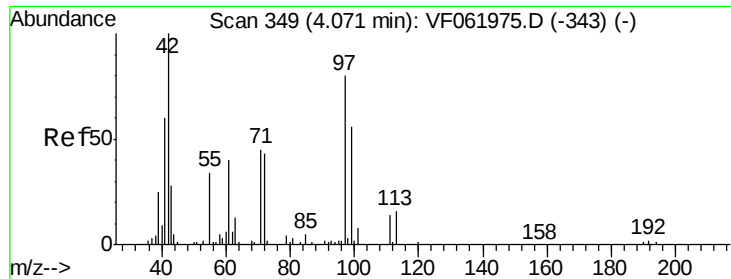


#28

Bromochloromethane
 Concen: 19.035 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion: 49 Resp: 32442
 Ion Ratio Lower Upper
 49 100
 129 1.8 0.0 5.8
 130 99.7 73.1 109.7

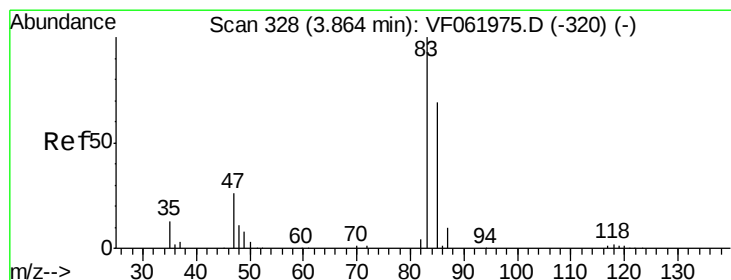
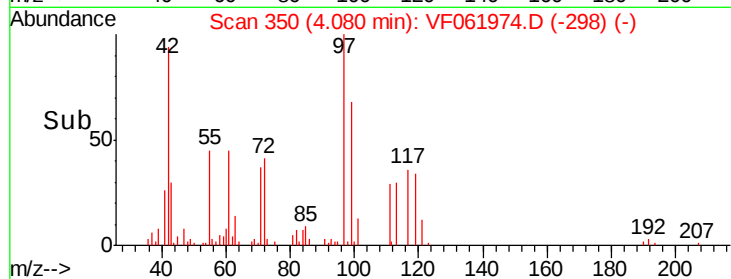
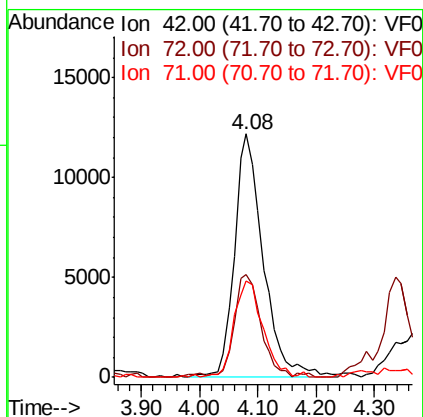
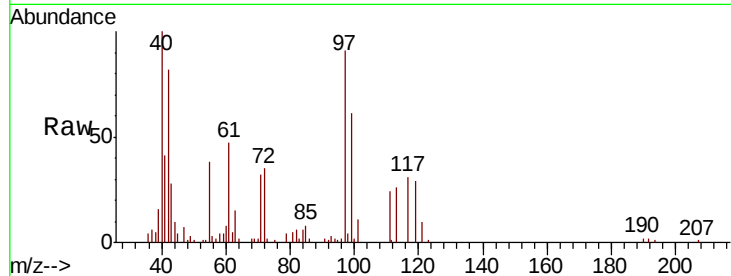




#29
Tetrahydrofuran
Concen: 110.623 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

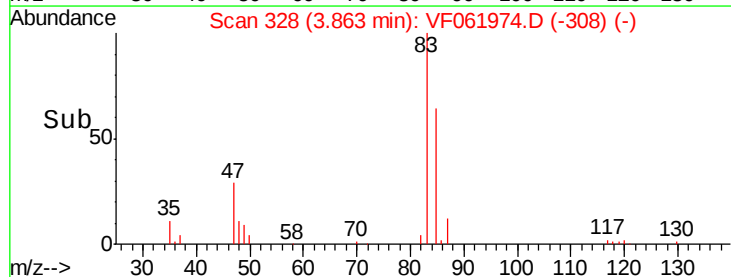
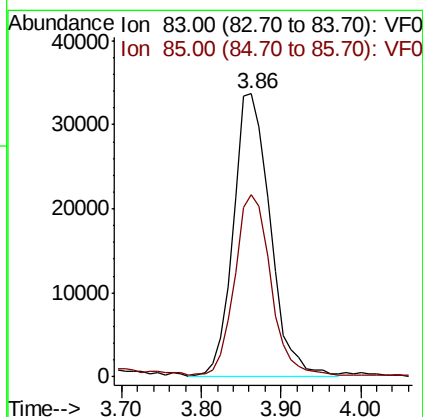
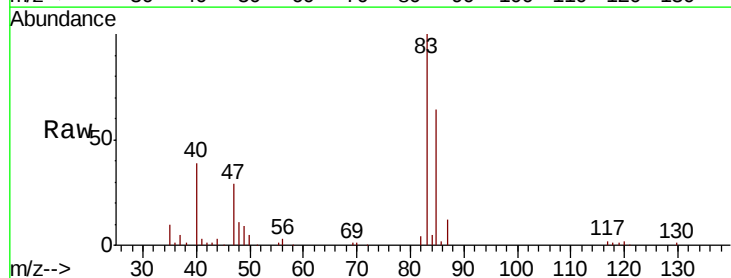
Instrument :
MSVOA_F
ClientSampleId :

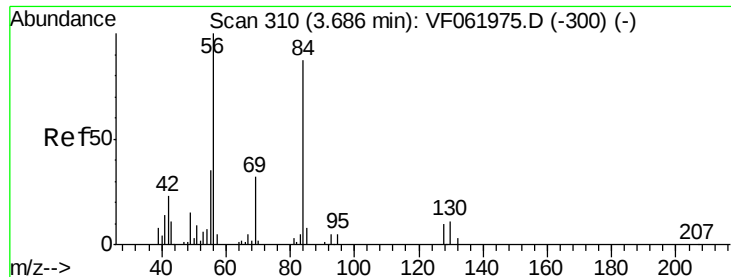
Tot Ion: 42 Resp: 41983
Ion Ratio Lower Upper
42 100
72 38.4 34.0 51.0
71 39.8 34.2 51.4



#30
Chloroform
Concen: 23.343 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 83 Resp: 108635
Ion Ratio Lower Upper
83 100
85 64.3 55.5 83.3

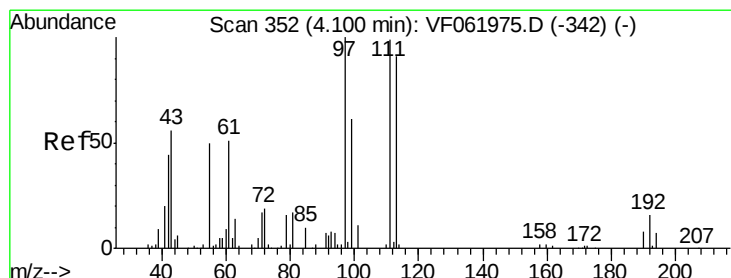
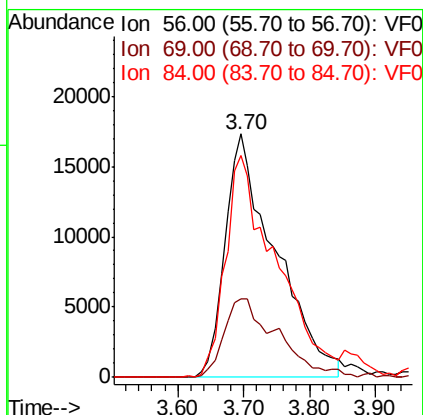
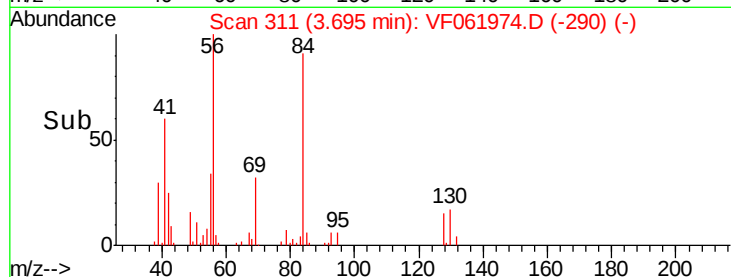
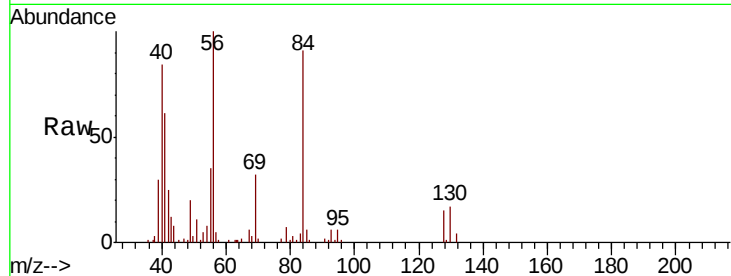




#31
Cvclohexane
Concen: 22.846 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

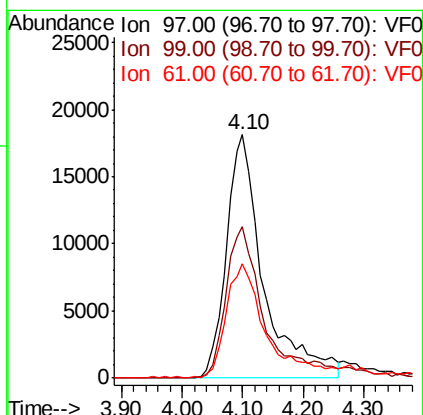
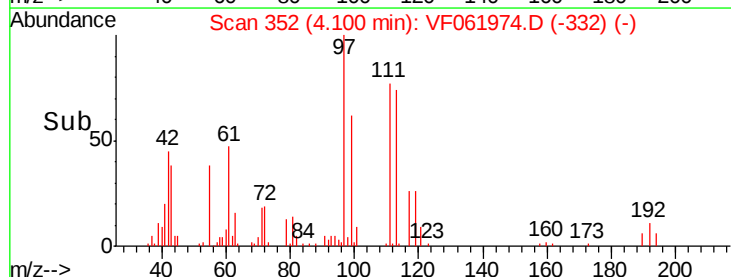
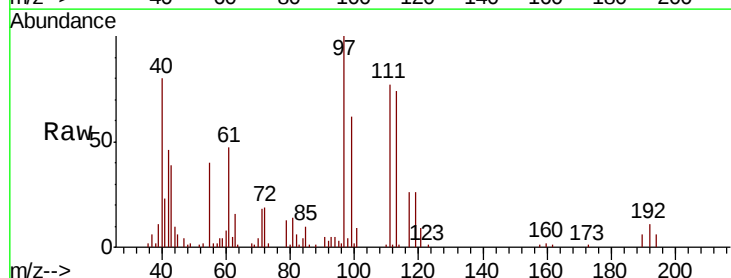
Instrument :
MSVOA_F
ClientSampleId :

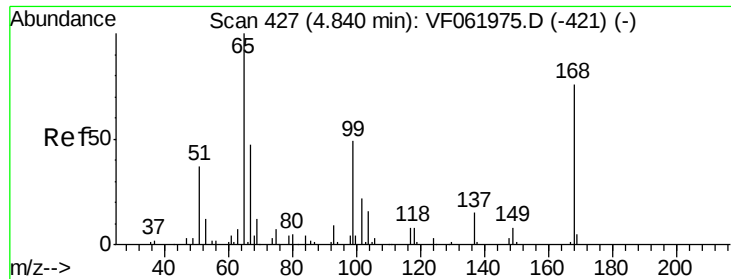
Tot Ion: 56 Resp: 91939
Ion Ratio Lower Upper
56 100
69 32.4 25.8 38.8
84 90.9 69.5 104.3



#32
1,1,1-Trichloroethane
Concen: 25.042 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 97 Resp: 77397
Ion Ratio Lower Upper
97 100
99 62.0 49.0 73.4
61 47.1 41.4 62.0





#33

1,2-Dichloroethane-d4

Concen: 20.864 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

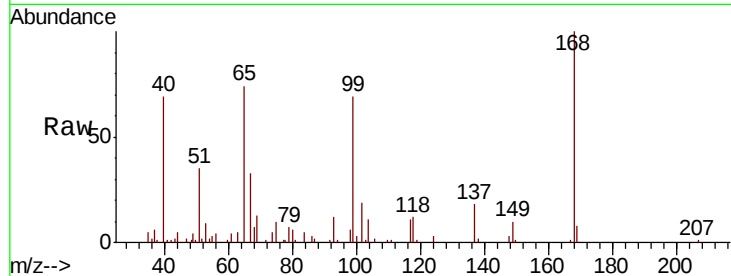
ClientSampleId :

Tot Ion: 65 Resp: 40940

Ion Ratio Lower Upper

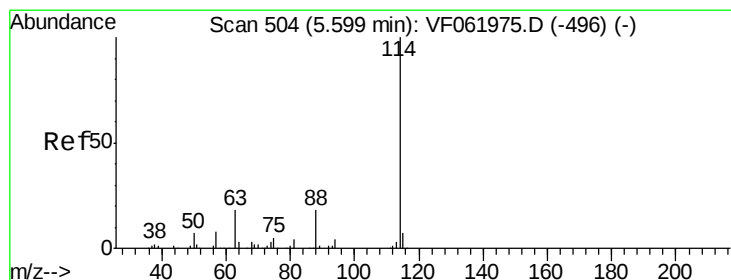
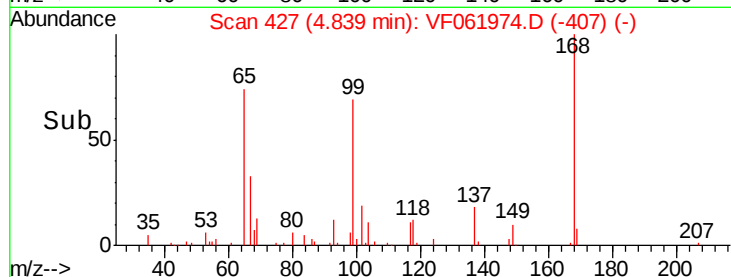
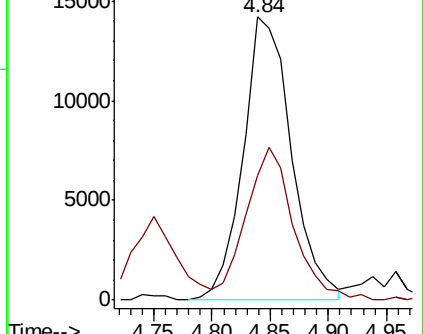
65 100

67 44.2 0.0 109.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

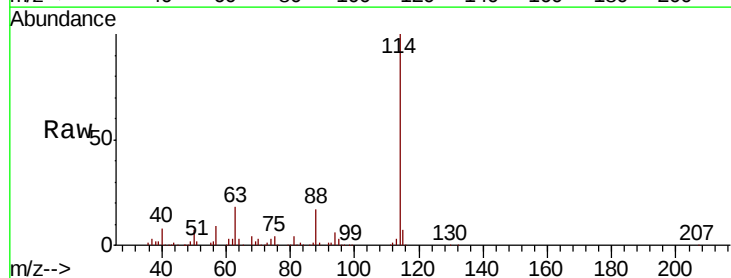
Tgt Ion: 114 Resp: 417477

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.4

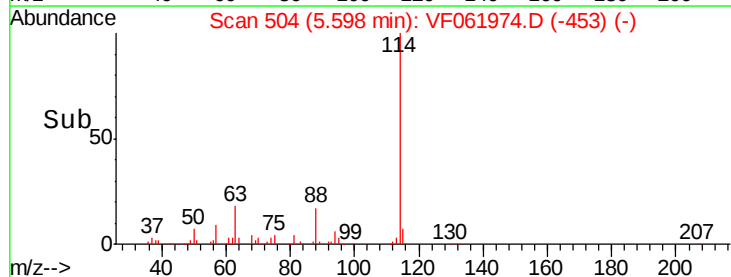
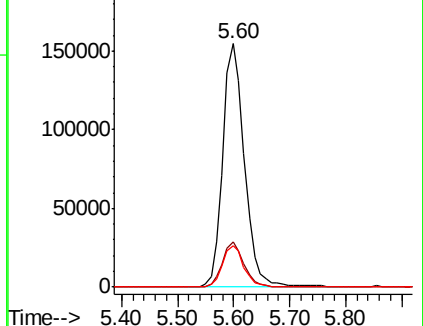
88 16.8 0.0 36.4

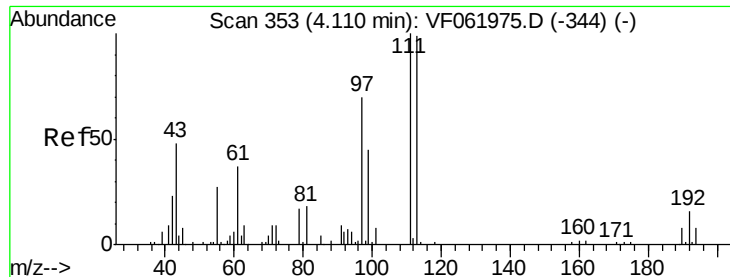


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 20.979 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

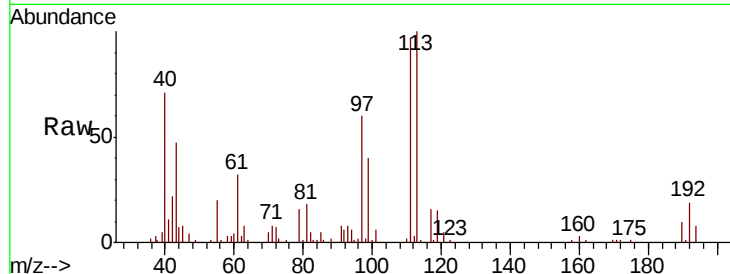
Tot Ion:113 Resp: 58814

Ion Ratio Lower Upper

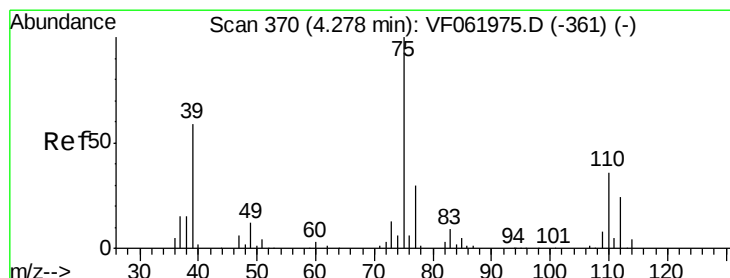
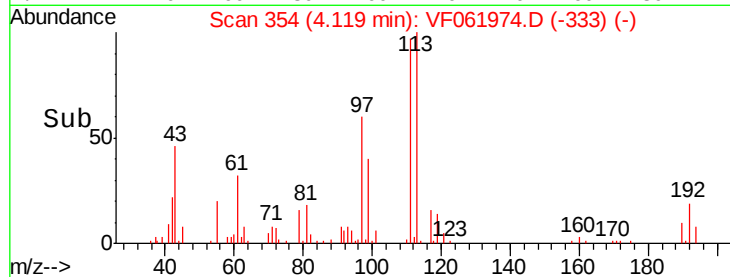
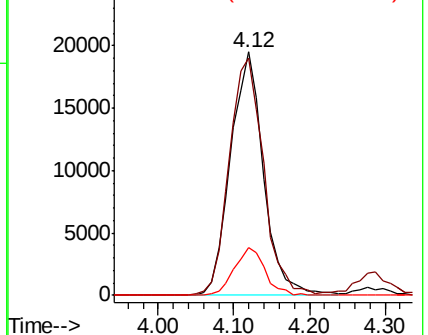
113 100

111 97.3 80.8 121.2

192 19.5 13.0 19.6



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: 22.087 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

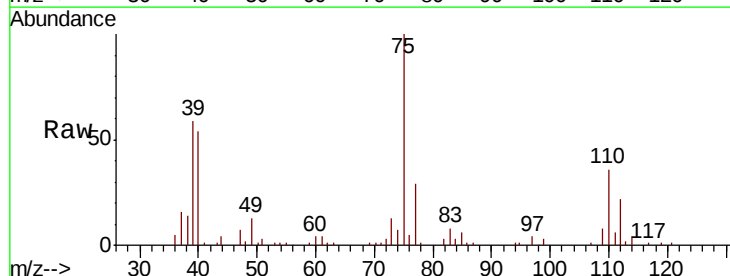
Tgt Ion: 75 Resp: 83269

Ion Ratio Lower Upper

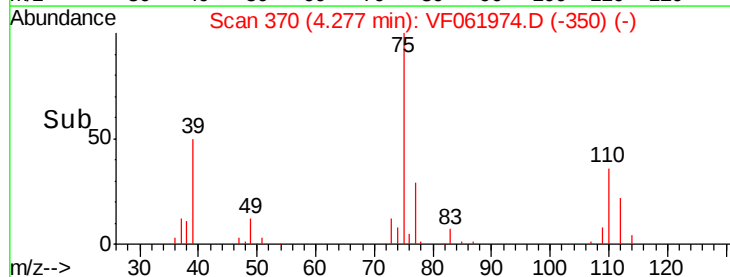
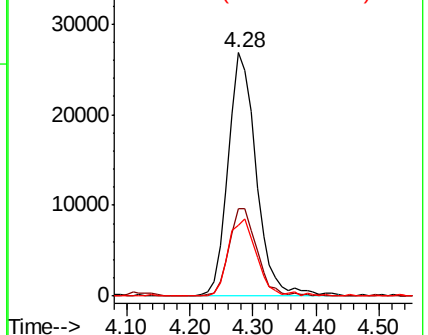
75 100

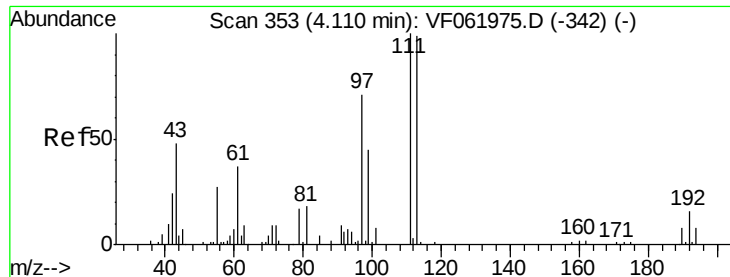
110 35.7 17.8 53.3

77 29.1 24.2 36.2



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





#37

Ethyl Acetate

Concen: 22.445 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

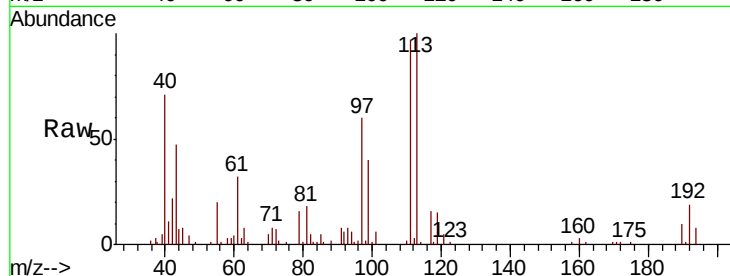
Tot Ion: 43 Resp: 37995

Ion Ratio Lower Upper

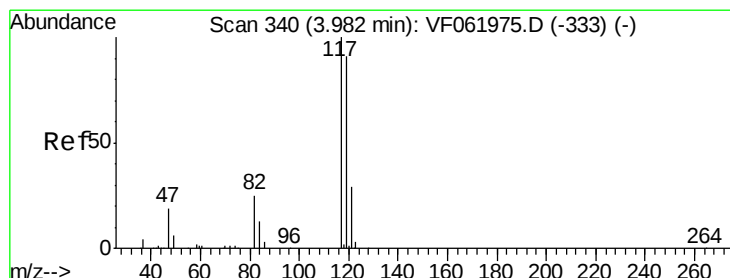
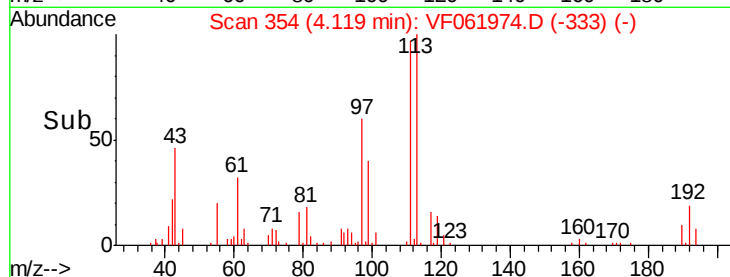
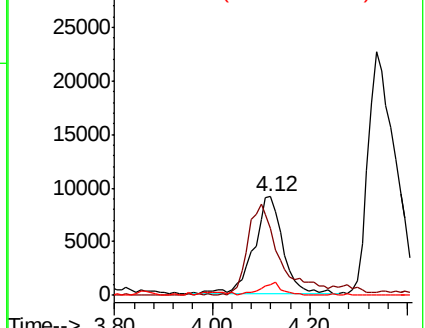
43 100

61 67.6 59.8 89.6

70 11.4 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 23.111 ug/l

RT: 3.98 min Scan# 340

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

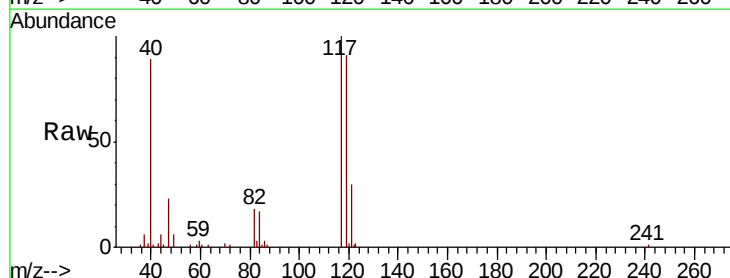
Tgt Ion: 117 Resp: 63677

Ion Ratio Lower Upper

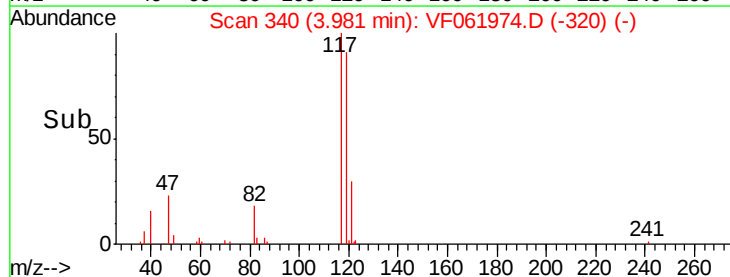
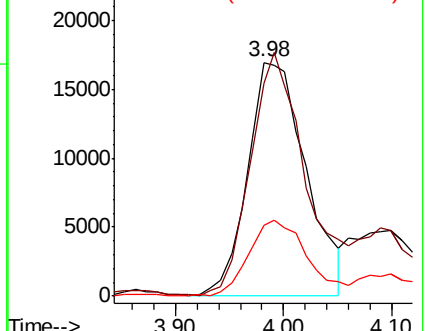
117 100

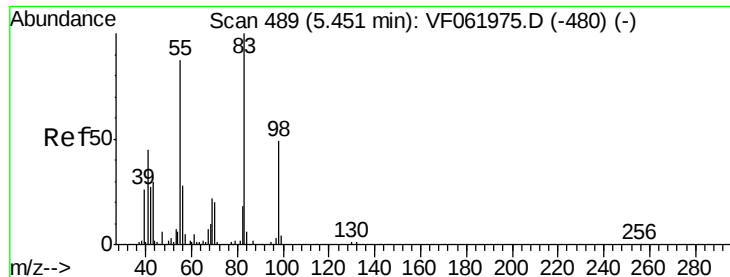
119 91.0 73.0 109.4

121 30.0 23.0 34.6



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

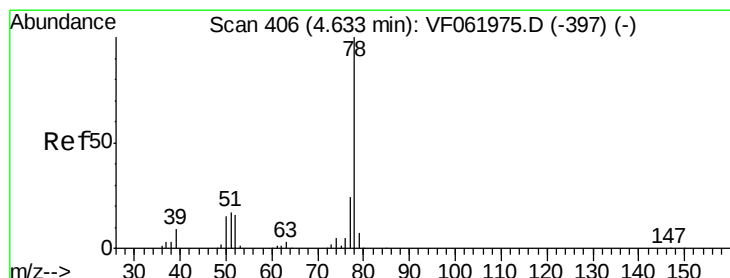
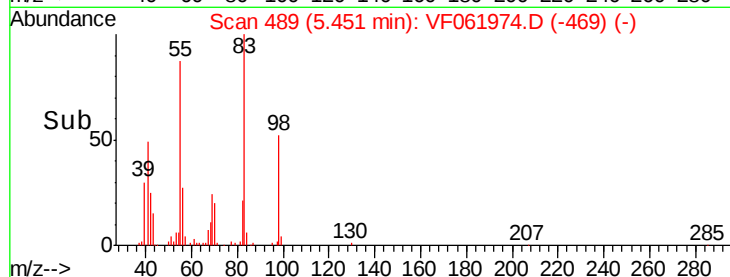
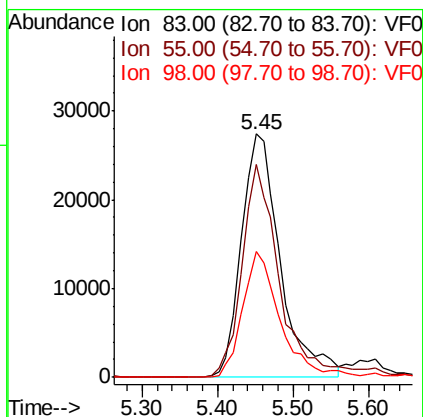
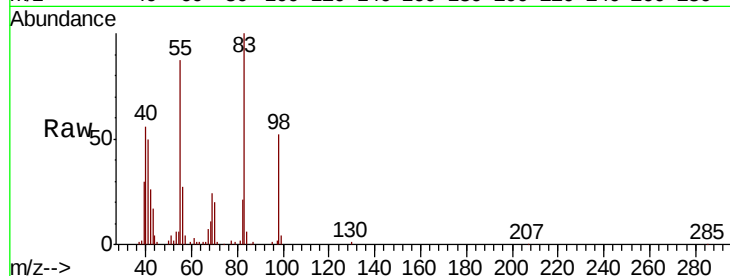




#39
Methvlcvclohexane
Concen: 22.195 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

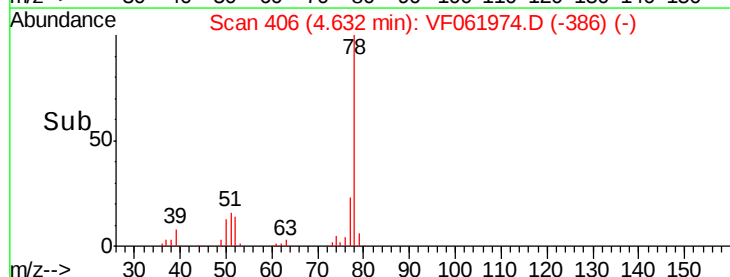
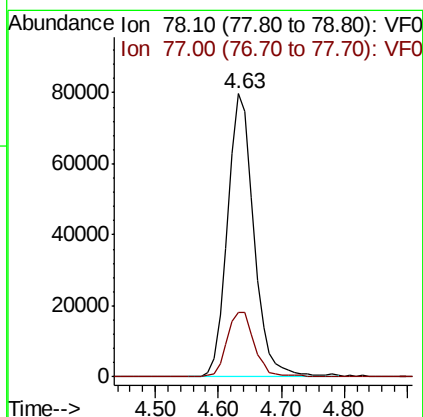
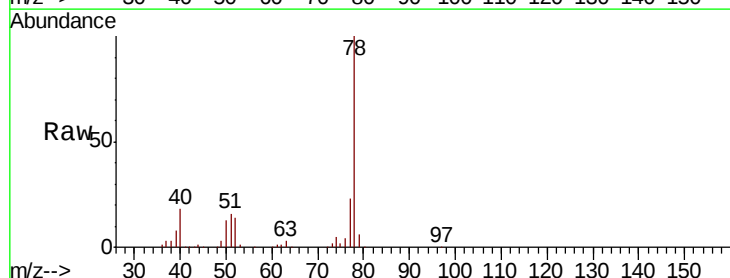
Instrument :
MSVOA_F
ClientSampleId :

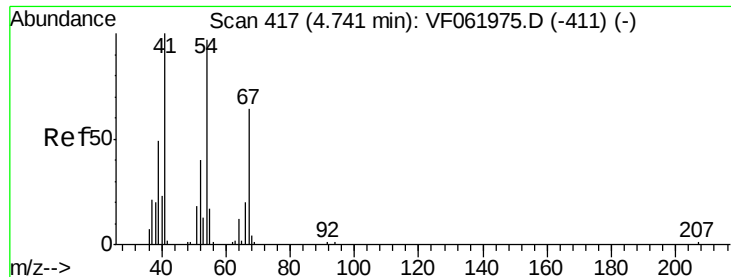
Tot Ion: 83 Resp: 98235
Ion Ratio Lower Upper
83 100
55 87.4 69.7 104.5
98 51.6 39.4 59.0



#40
Benzene
Concen: 23.135 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 78 Resp: 231113
Ion Ratio Lower Upper
78 100
77 22.8 19.0 28.4

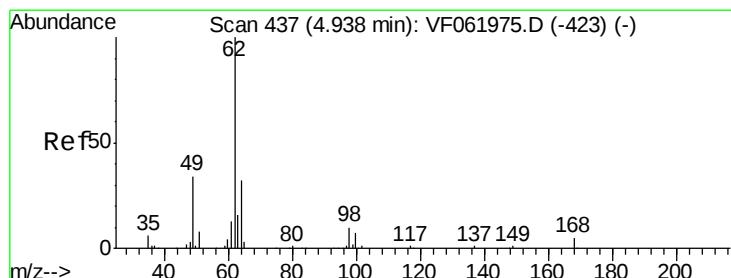
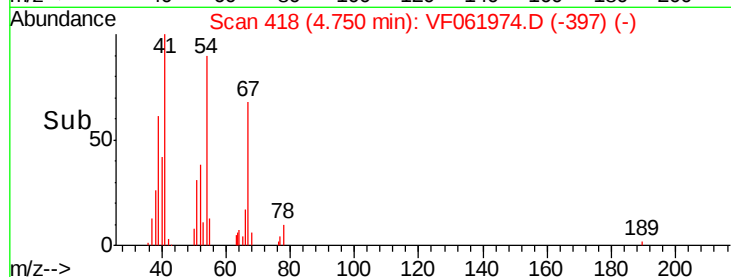
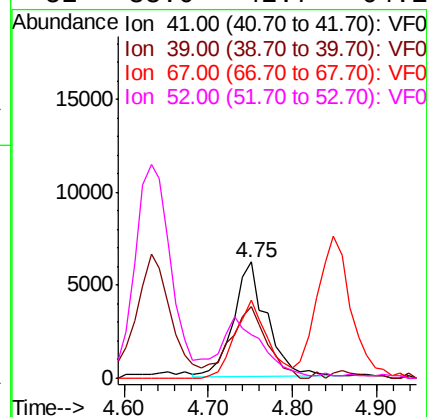
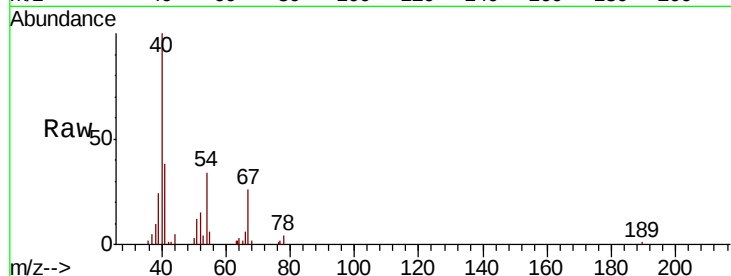




#41
Methacrylonitrile
Concen: 18.937 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

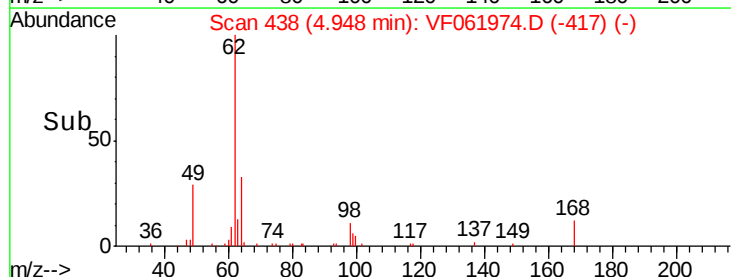
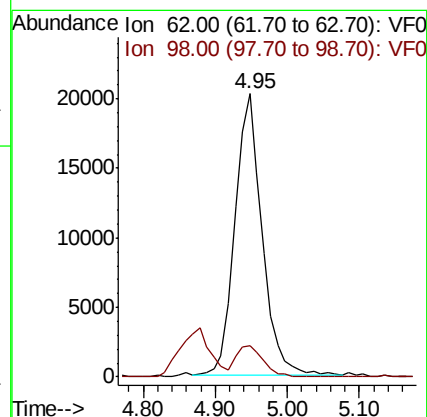
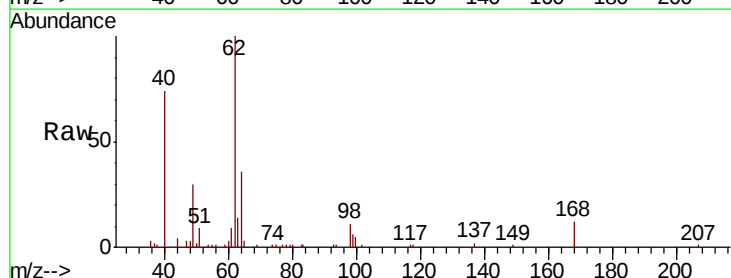
Instrument :
MSVOA_F
ClientSampleId :

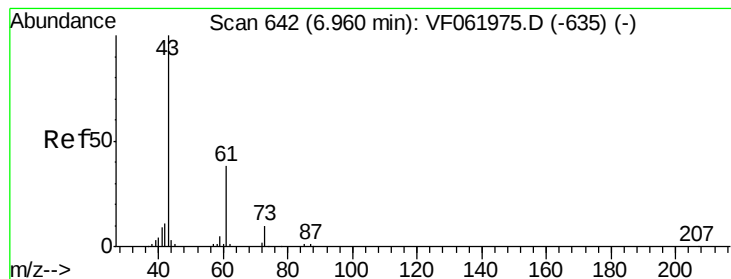
Tot Ion: 41 Resp: 17127
Ion Ratio Lower Upper
41 100
39 61.5 46.2 69.4
67 67.5 49.8 74.8
52 38.0 42.7 64.1#



#42
1,2-Dichloroethane
Concen: 21.458 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 62 Resp: 53363
Ion Ratio Lower Upper
62 100
98 11.2 0.0 19.8



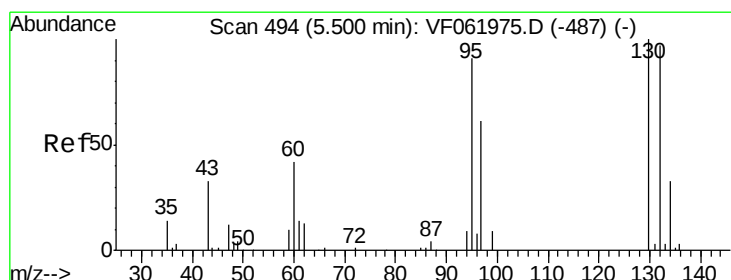
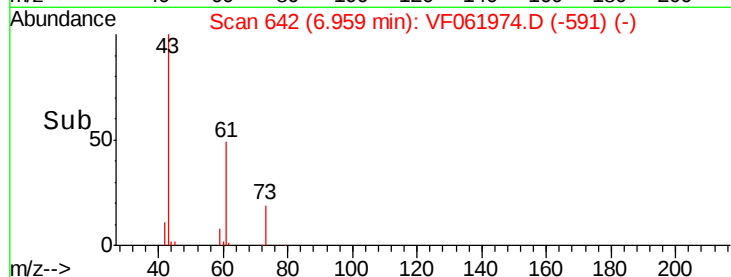
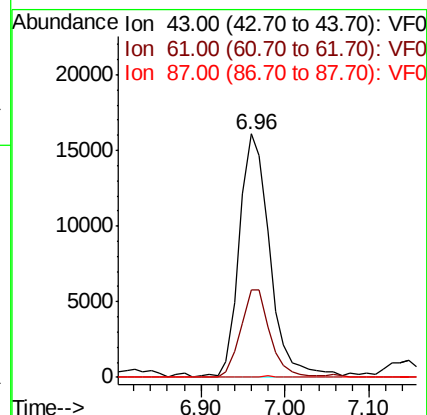
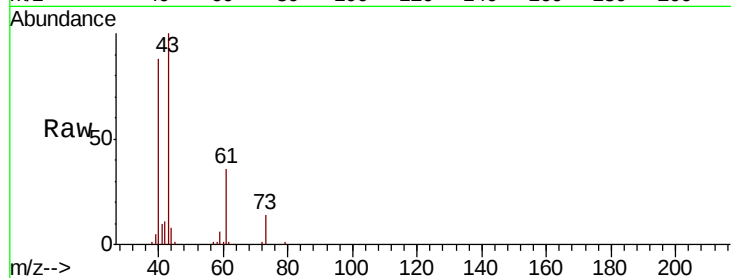


#43

Isopropyl Acetate
 Concen: 20.436 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :

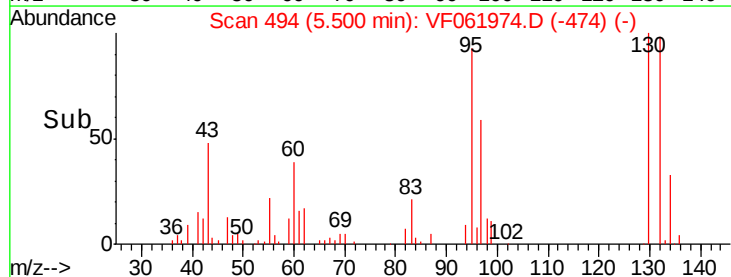
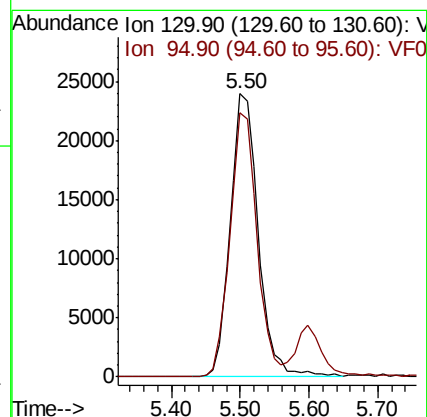
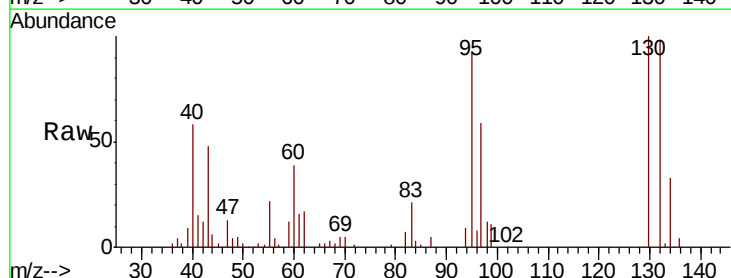
Tot Ion: 43 Resp: 40930
 Ion Ratio Lower Upper
 43 100
 61 35.9 30.1 45.1
 87 0.0 0.4 0.6#

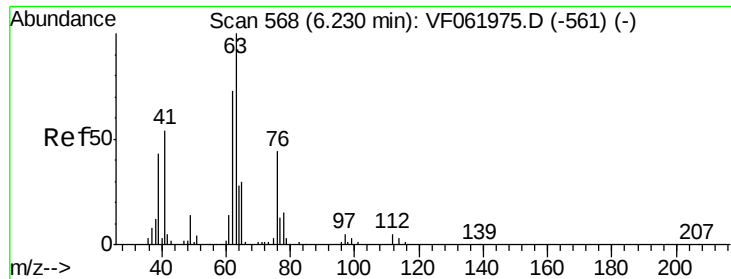


#44

Trichloroethene
 Concen: 22.077 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion: 130 Resp: 67561
 Ion Ratio Lower Upper
 130 100
 95 93.4 0.0 181.4





#45

1,2-Dichloropropane

Concen: 23.189 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

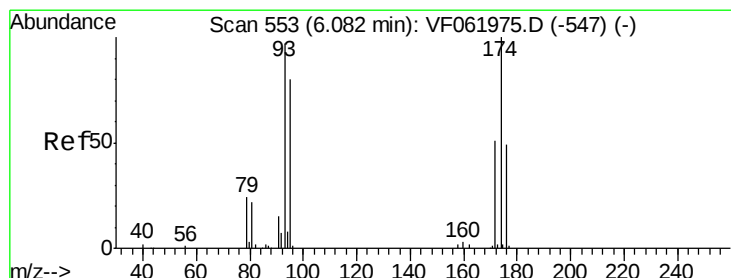
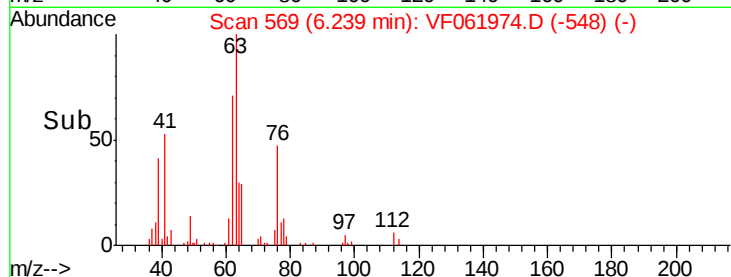
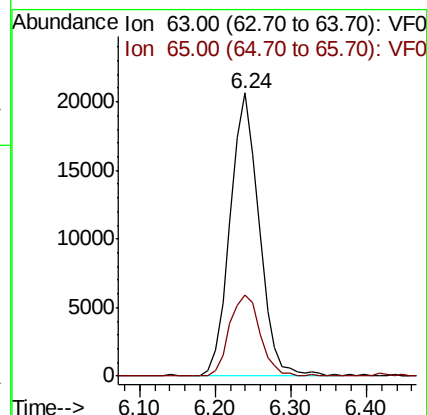
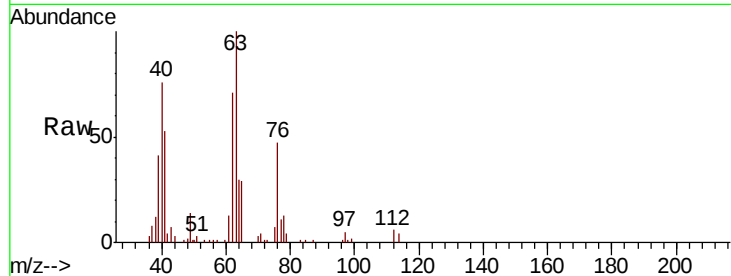
ClientSampleId :

Tot Ion: 63 Resp: 54821

Ion Ratio Lower Upper

63 100

65 28.7 23.7 35.5



#46

Dibromomethane

Concen: 22.691 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

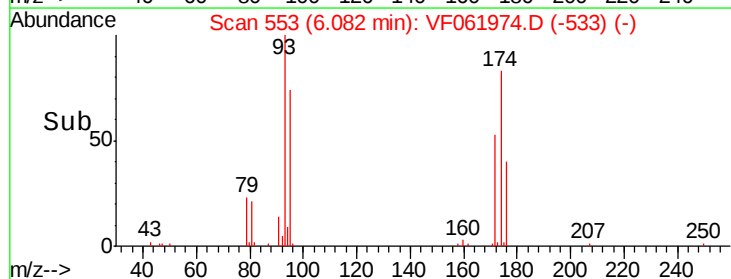
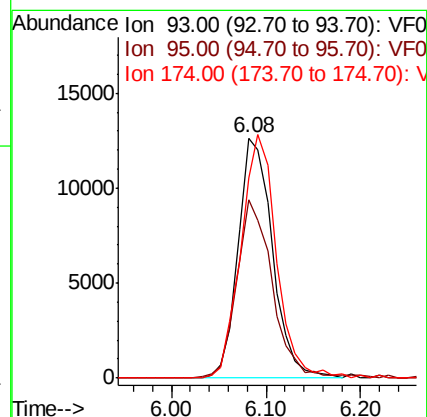
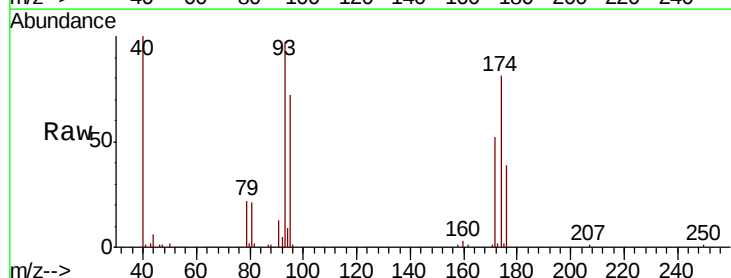
Tgt Ion: 93 Resp: 31912

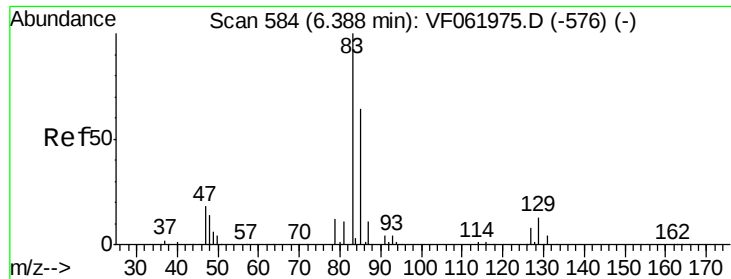
Ion Ratio Lower Upper

93 100

95 74.4 65.7 98.5

174 83.2 82.2 123.4





#47

Bromodichloromethane

Concen: 21.027 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

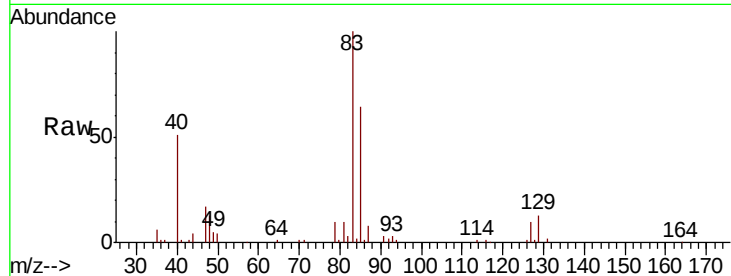
Tot Ion: 83 Resp: 69718

Ion Ratio Lower Upper

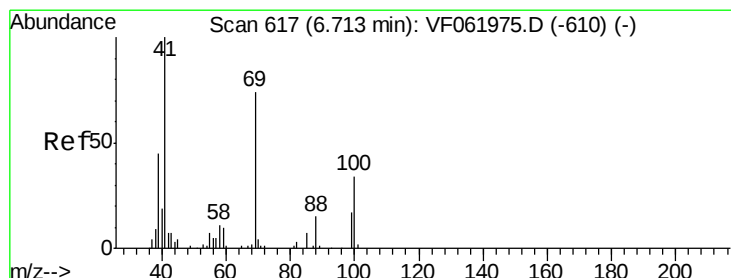
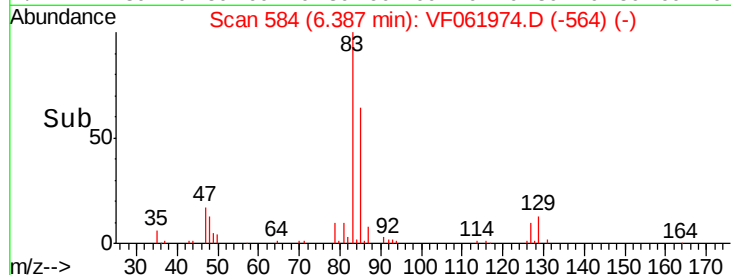
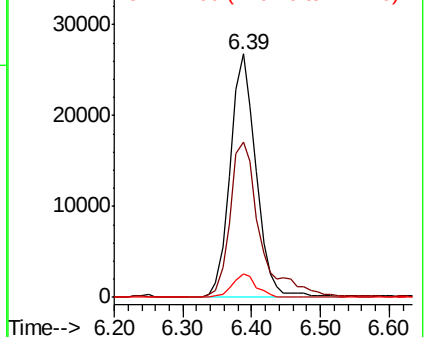
83 100

85 64.0 51.4 77.2

127 9.5 6.5 9.7



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: 19.802 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

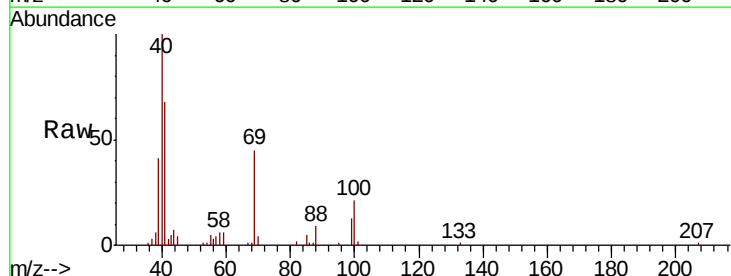
Tgt Ion: 41 Resp: 25632

Ion Ratio Lower Upper

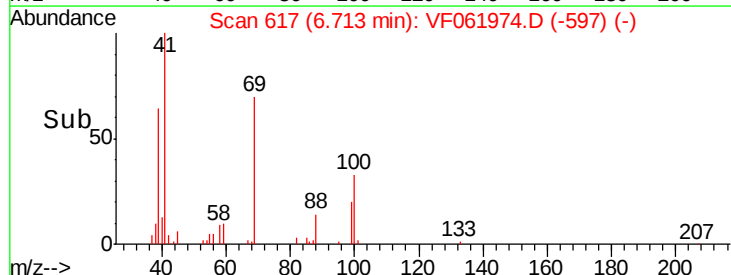
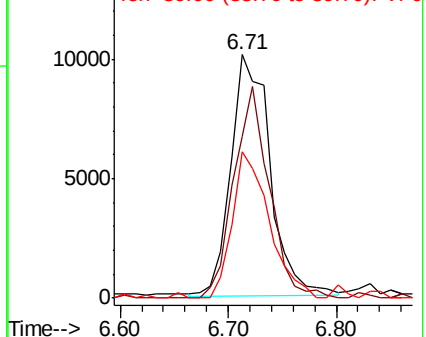
41 100

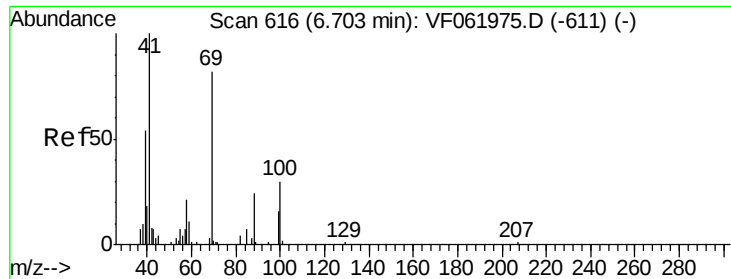
69 66.4 59.0 88.6

39 60.4 35.6 53.4#



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: 413.330 ug/l

RT: 6.72 min Scan# 618

Delta R.T. 0.02 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

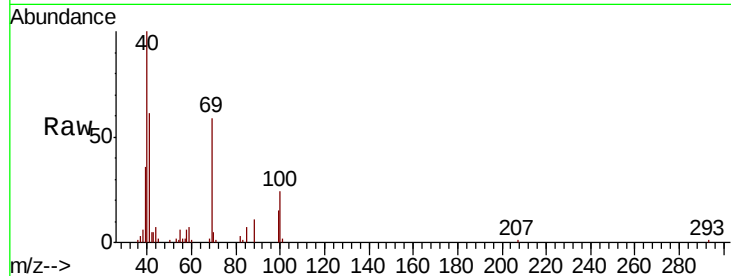
Tot Ion: 88 Resp: 4759

Ion Ratio Lower Upper

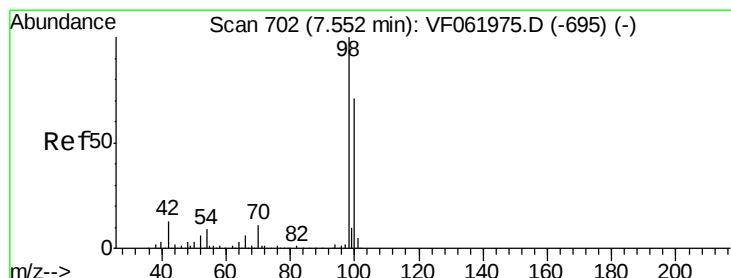
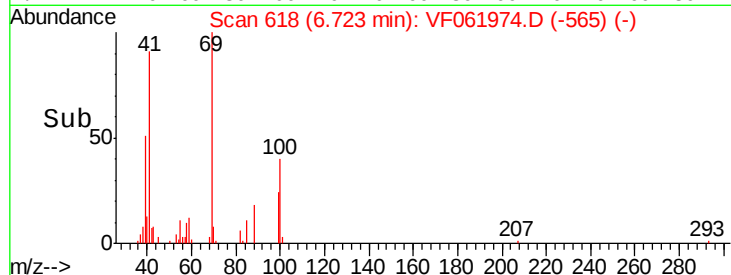
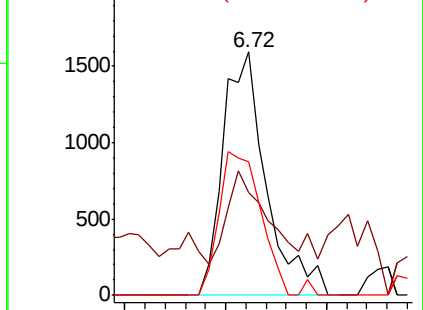
88 100

43 42.4 31.2 46.8

58 55.0 69.9 104.9#



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



#50

Toluene-d8

Concen: 21.204 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061974.D

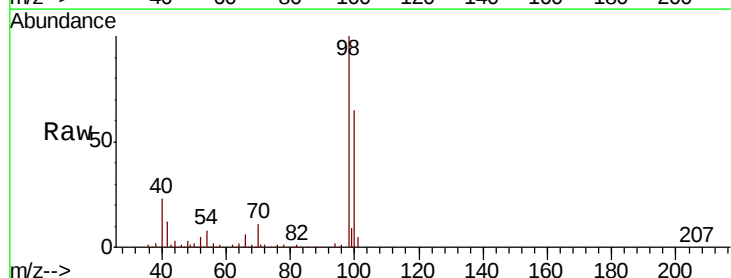
Acq: 16 Mar 2019 11:39

Tgt Ion: 98 Resp: 173773

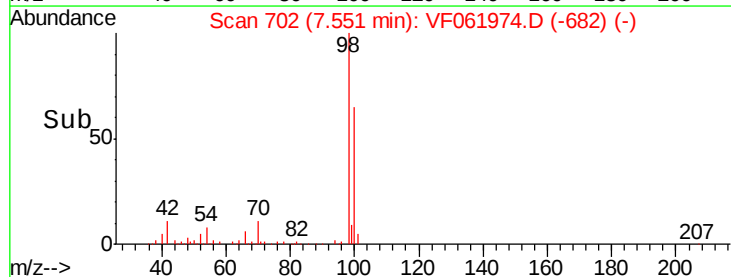
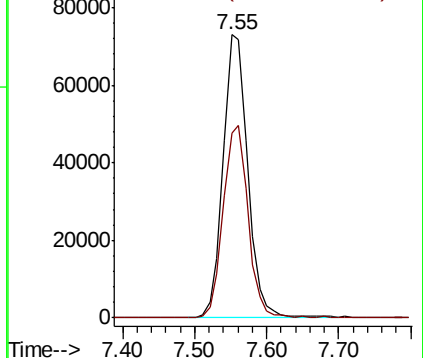
Ion Ratio Lower Upper

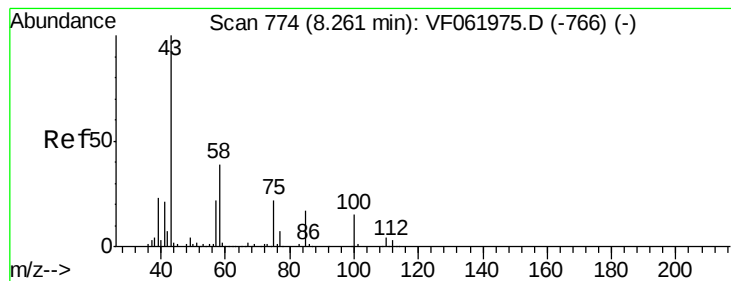
98 100

100 65.1 56.8 85.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 108.454 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

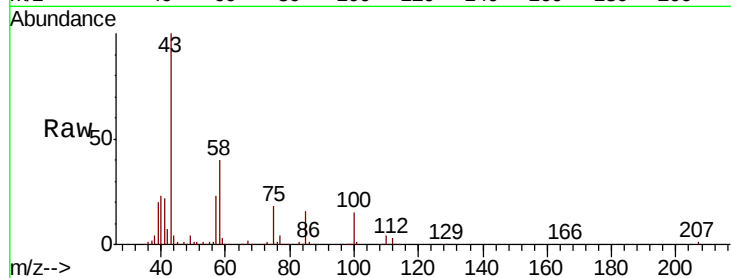
ClientSampleId :

Tot Ion: 43 Resp: 154246

Ion Ratio Lower Upper

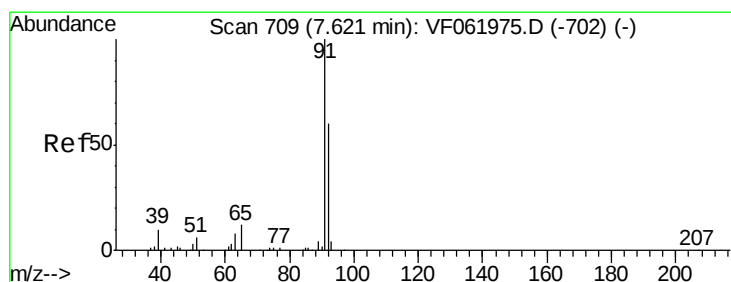
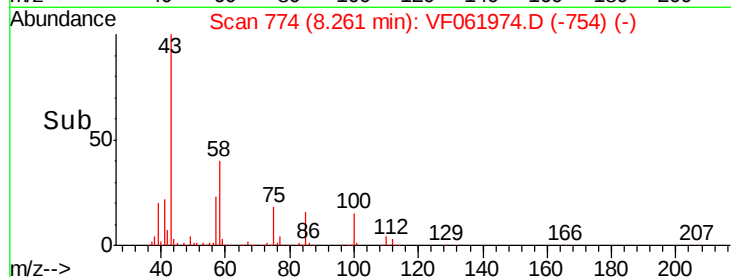
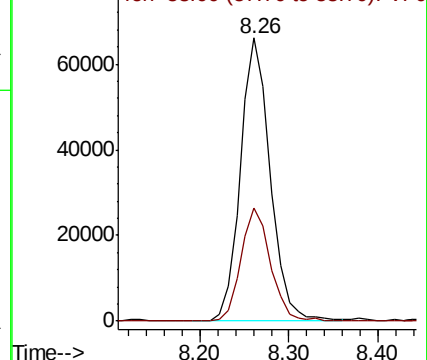
43 100

58 40.1 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.594 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061974.D

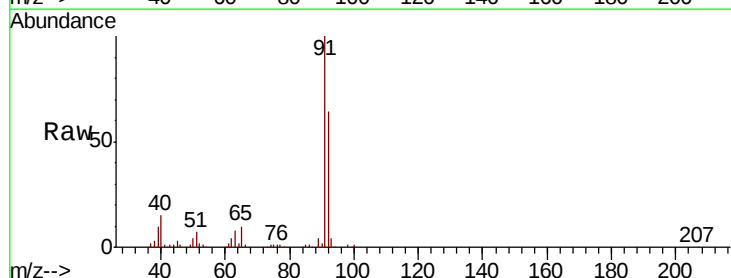
Acq: 16 Mar 2019 11:39

Tgt Ion: 92 Resp: 137907

Ion Ratio Lower Upper

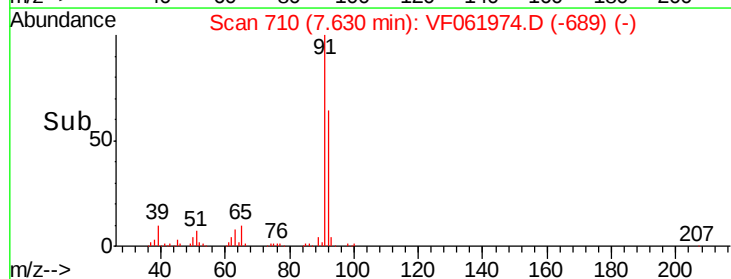
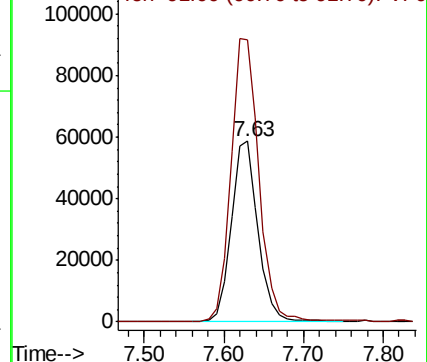
92 100

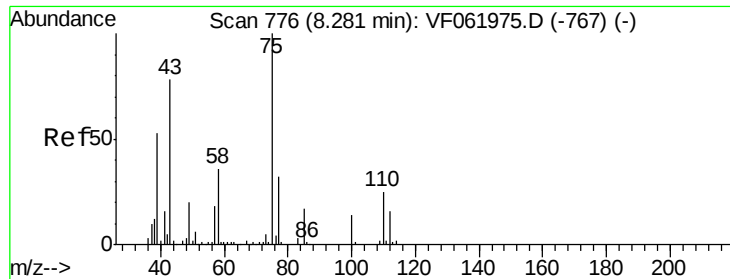
91 156.4 134.0 201.0



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: 22.284 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

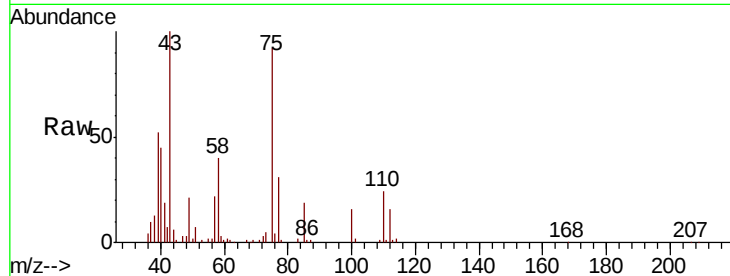
ClientSampleId :

Tot Ion: 75 Resp: 62376

Ion Ratio Lower Upper

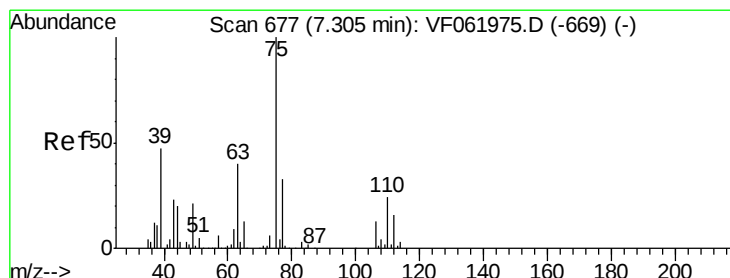
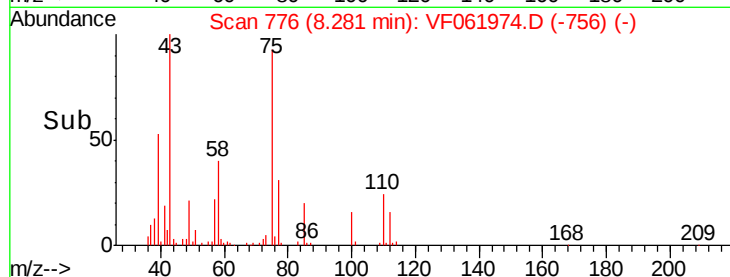
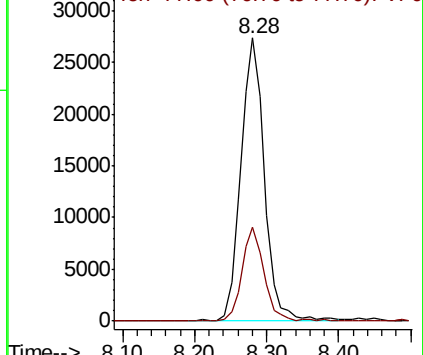
75 100

77 33.2 25.5 38.3



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: 22.051 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

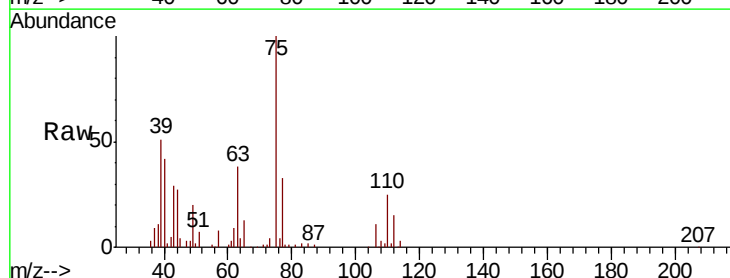
Tgt Ion: 75 Resp: 80538

Ion Ratio Lower Upper

75 100

77 33.3 26.4 39.6

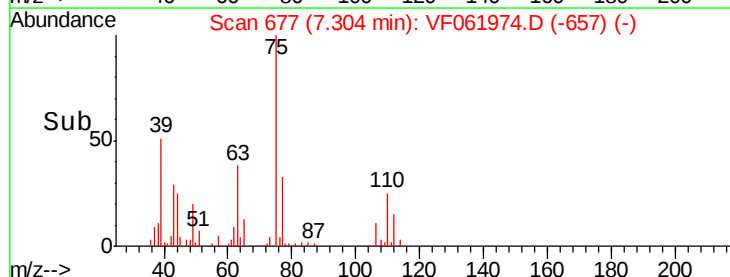
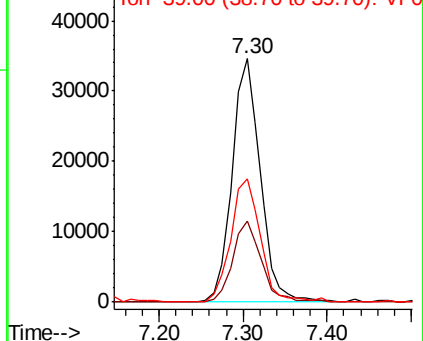
39 50.9 38.0 57.0

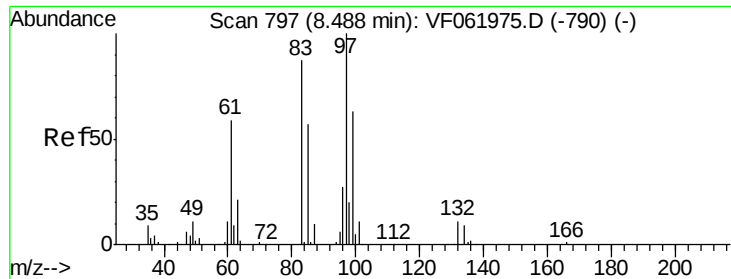


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.563 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 97 Resp: 36733

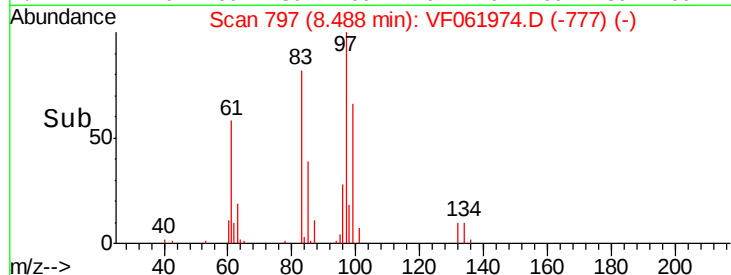
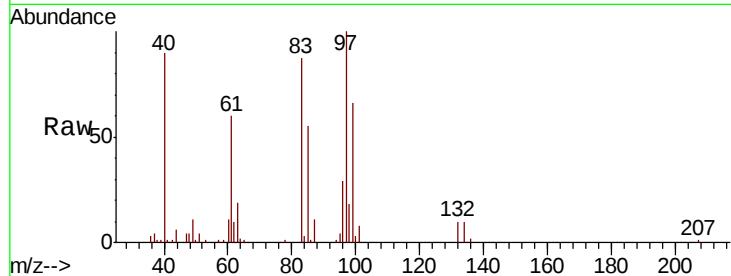
Ion	Ratio	Lower	Upper
97	100		
83	86.9	69.7	104.5
85	54.7	45.8	68.6
99	66.2	50.3	75.5

97 100

83 86.9 69.7 104.5

85 54.7 45.8 68.6

99 66.2 50.3 75.5

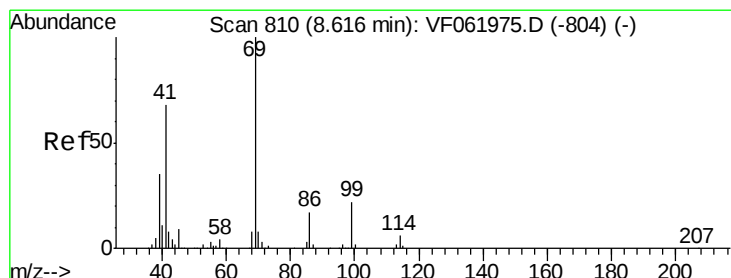
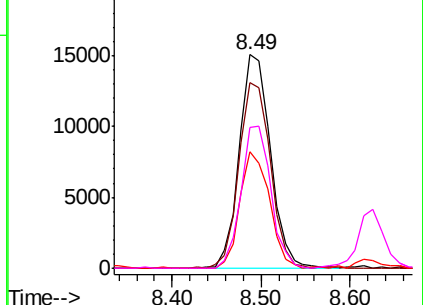


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 22.144 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

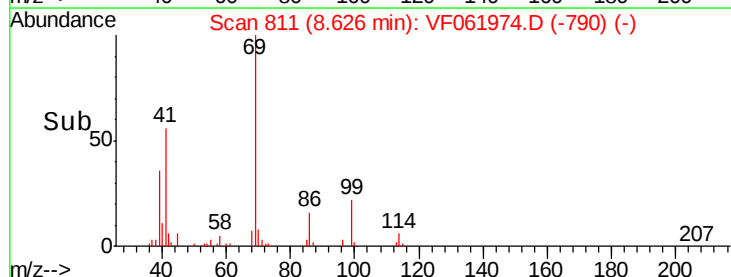
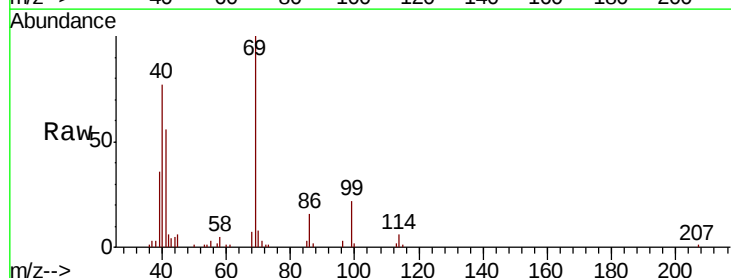
Tgt Ion: 69 Resp: 42883

Ion	Ratio	Lower	Upper
69	100		
41	56.2	54.7	82.1
39	36.4	27.9	41.9

69 100

41 56.2 54.7 82.1

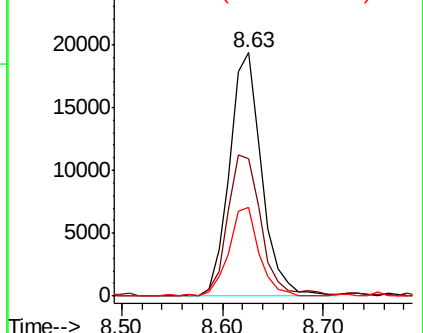
39 36.4 27.9 41.9

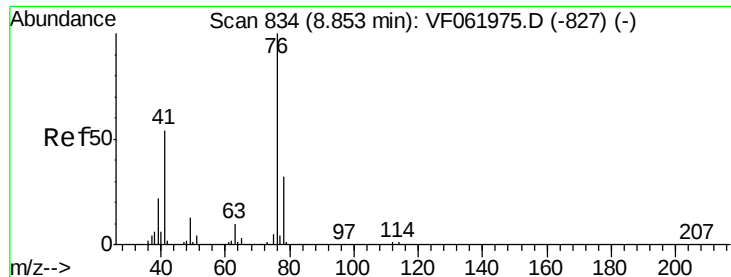


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.171 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

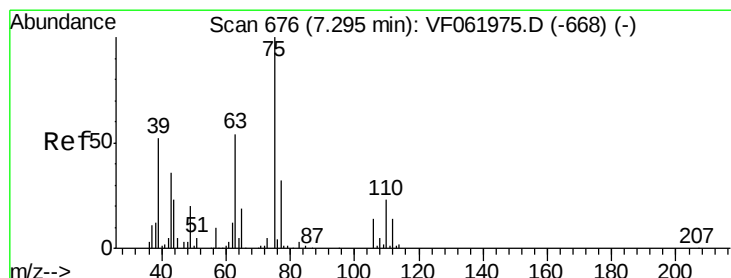
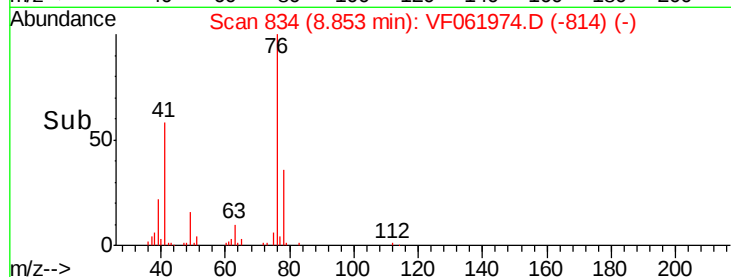
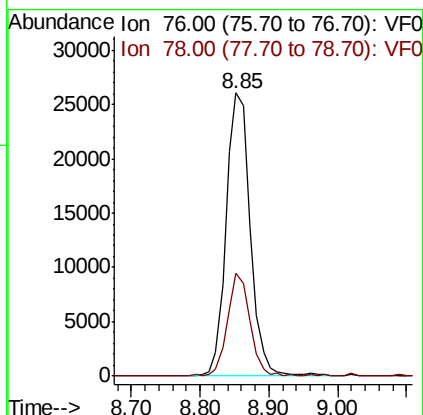
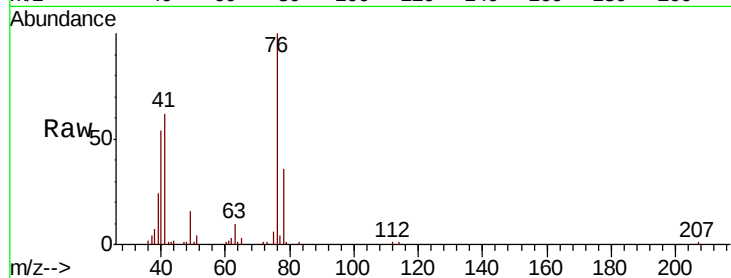
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 63002

Ion Ratio Lower Upper

76 100

78 36.3 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 98.225 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061974.D

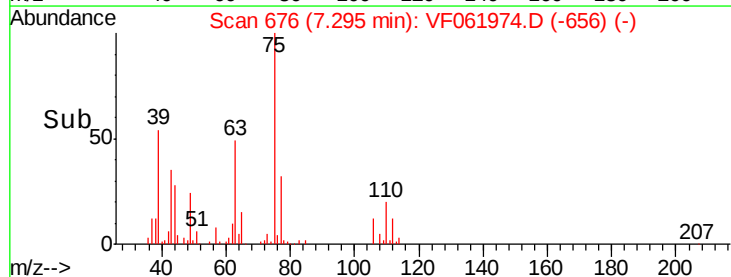
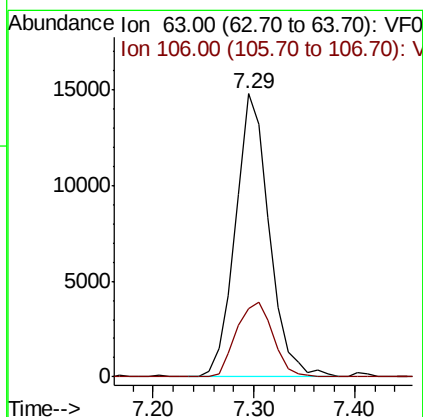
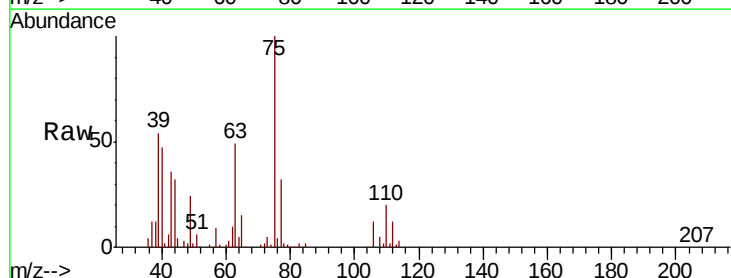
Acq: 16 Mar 2019 11:39

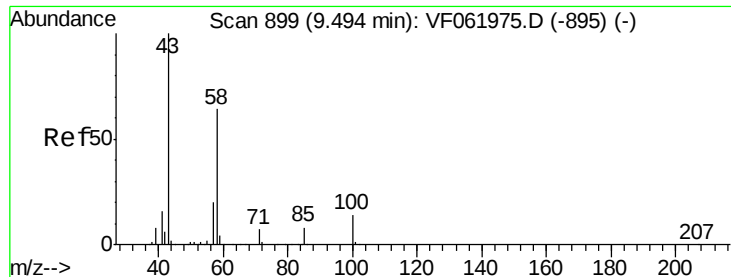
Tgt Ion: 63 Resp: 34453

Ion Ratio Lower Upper

63 100

106 24.0 20.9 31.3

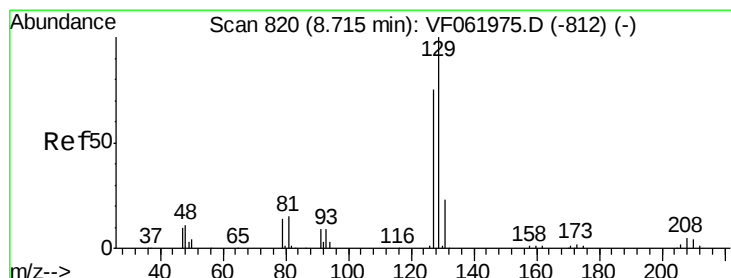
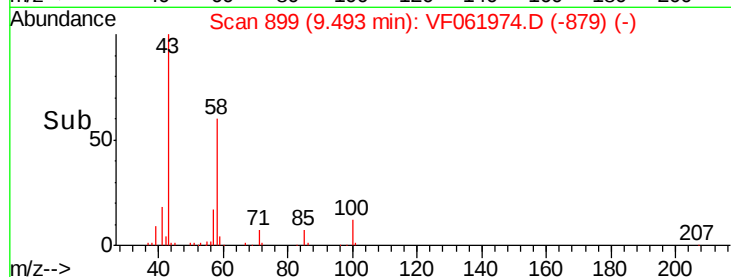
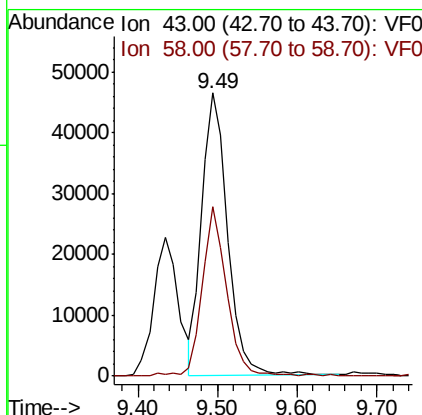
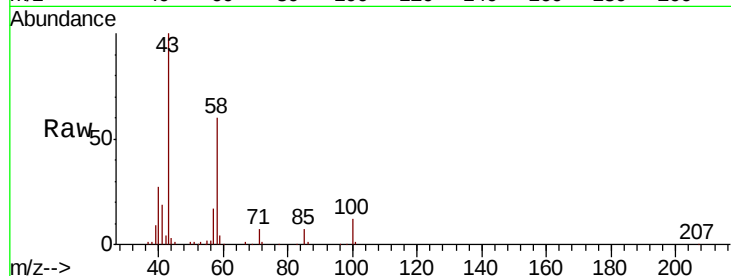




#59
2-Hexanone
Concen: 101.500 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

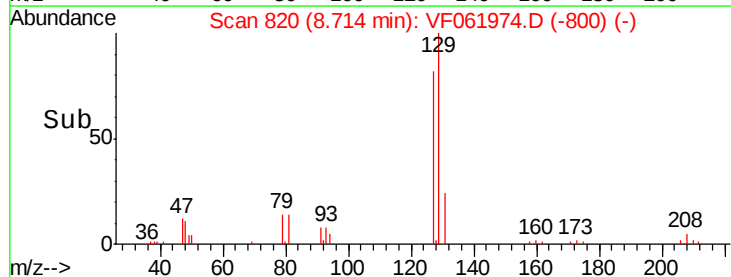
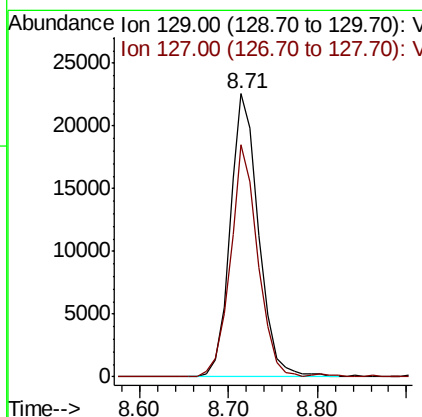
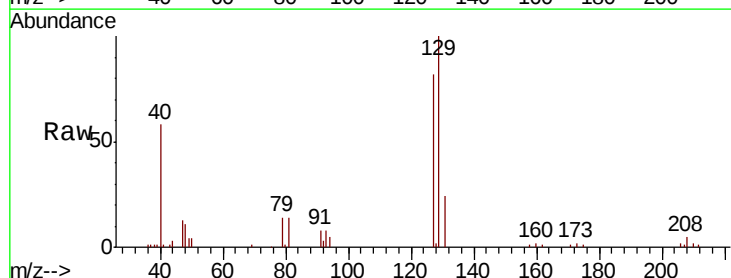
Instrument :
MSVOA_F
ClientSampleId :

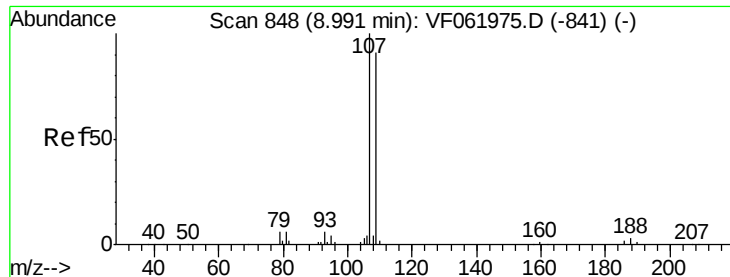
Tot Ion: 43 Resp: 104472
Ion Ratio Lower Upper
43 100
58 59.8 28.4 85.2



#60
Dibromochloromethane
Concen: 21.276 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 129 Resp: 50316
Ion Ratio Lower Upper
129 100
127 82.0 37.3 111.8





#61

1,2-Dibromoethane

Concen: 21.655 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

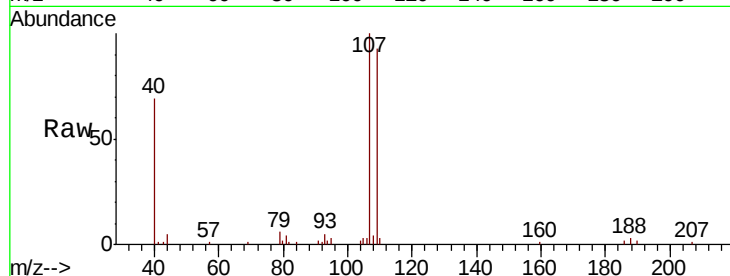
ClientSampleId :

Tot Ion:107 Resp: 39570

Ion Ratio Lower Upper

107 100

109 93.4 72.8 109.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.99

20000

15000

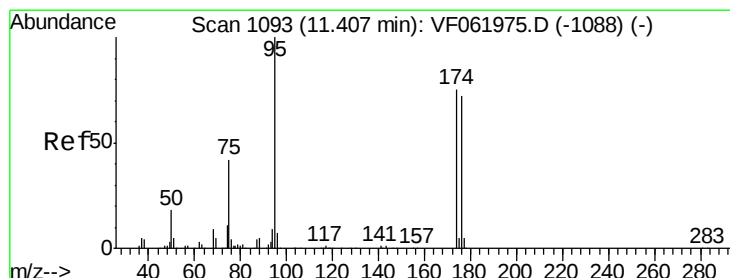
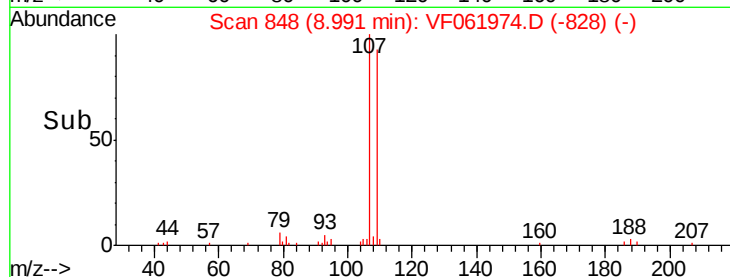
10000

5000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 21.041 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

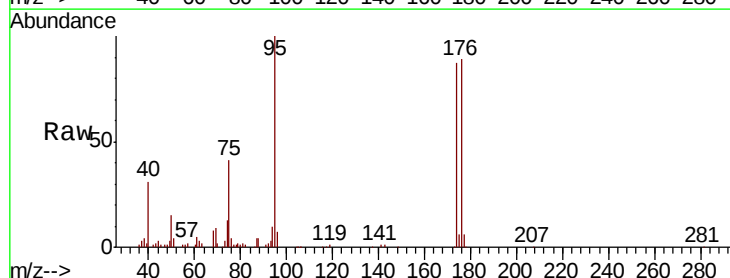
Tgt Ion: 95 Resp: 68502

Ion Ratio Lower Upper

95 100

174 87.2 0.0 149.4

176 88.8 0.0 143.4



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

11.42

50000

40000

30000

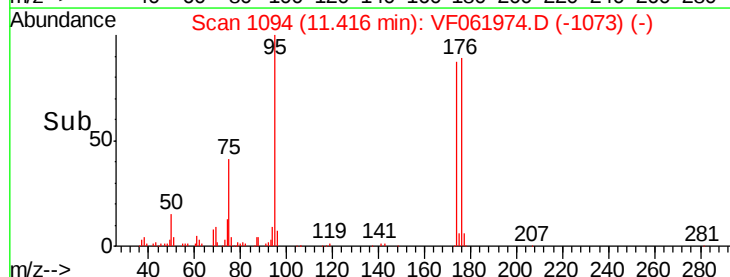
20000

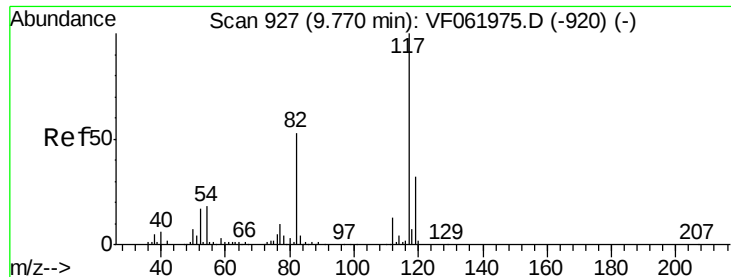
10000

0

11.30 11.40 11.50

Time-->

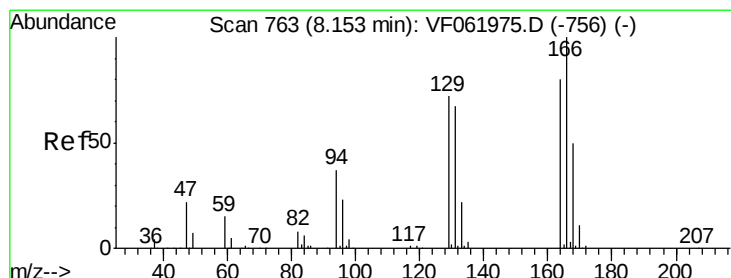
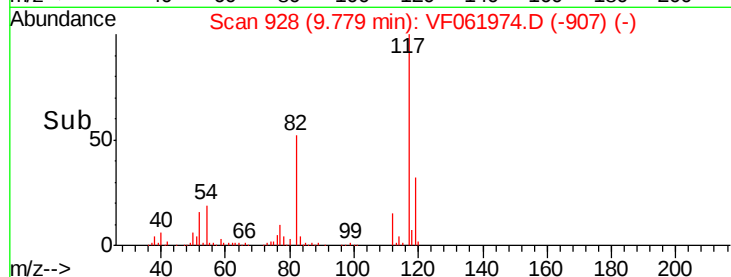
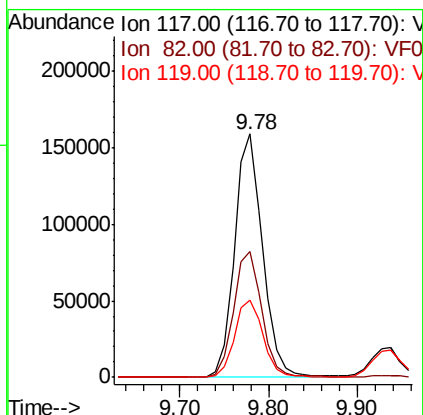
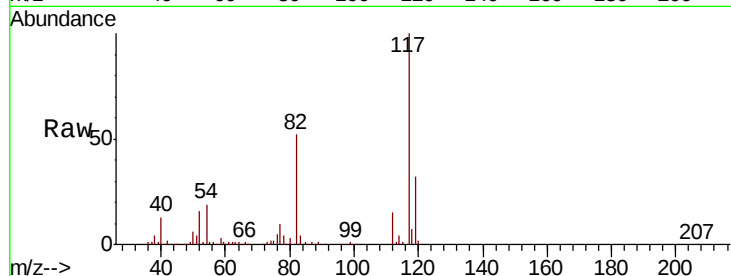




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

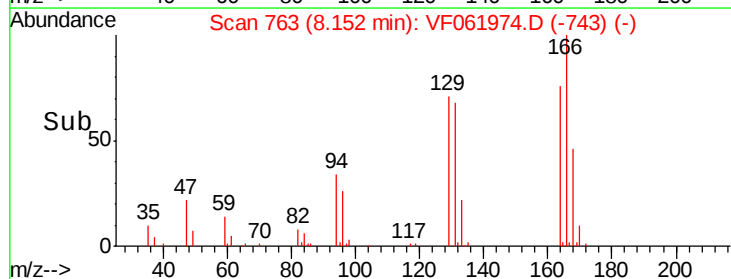
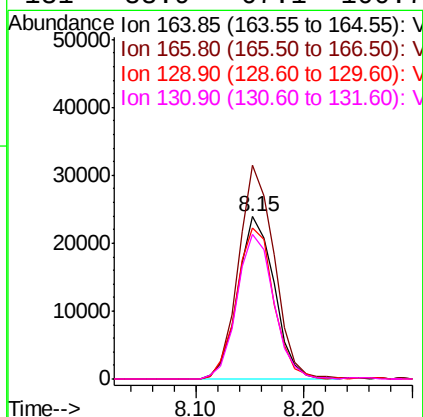
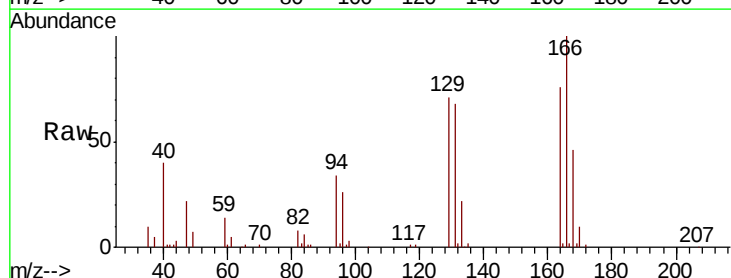
Instrument :
MSVOA_F
ClientSampled :

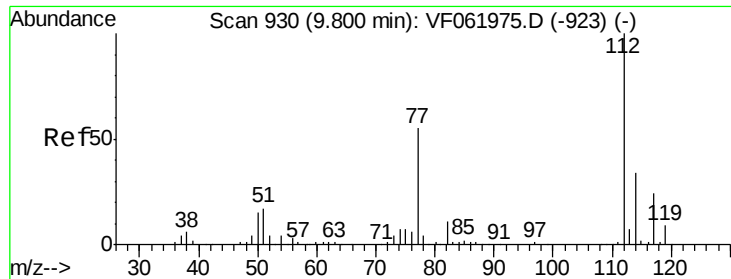
Tot Ion:117 Resp: 348559
Ion Ratio Lower Upper
117 100
82 51.8 42.5 63.7
119 31.8 25.4 38.0



#64
Tetrachloroethene
Concen: 22.170 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion:164 Resp: 56171
Ion Ratio Lower Upper
164 100
166 131.5 100.0 150.0
129 92.9 72.4 108.6
131 88.9 67.1 100.7

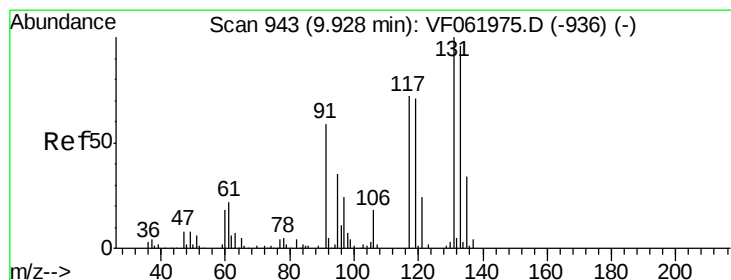
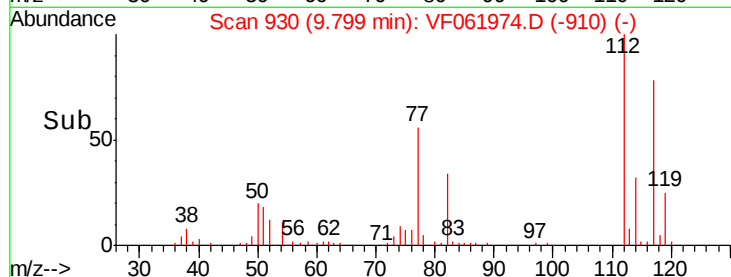
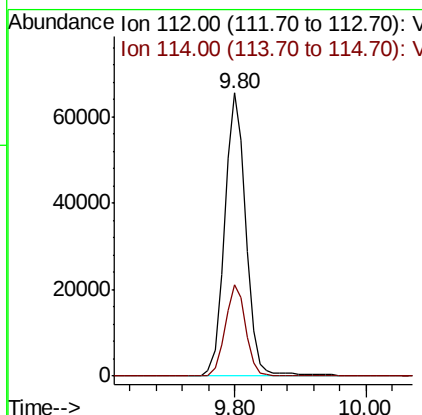
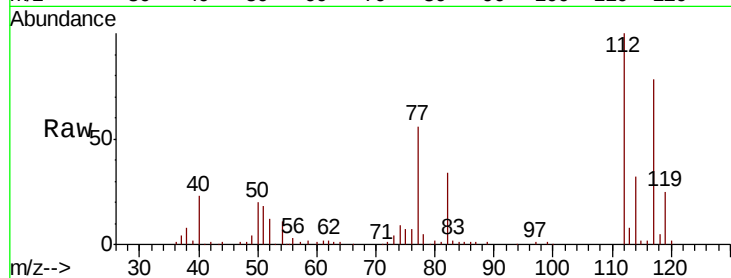




#65
Chlorobenzene
Concen: 22.779 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

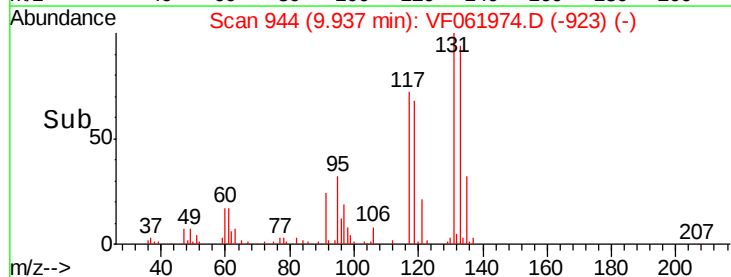
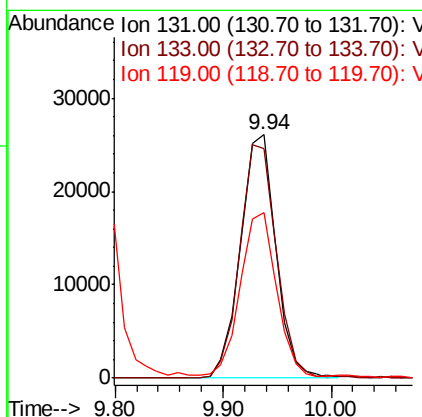
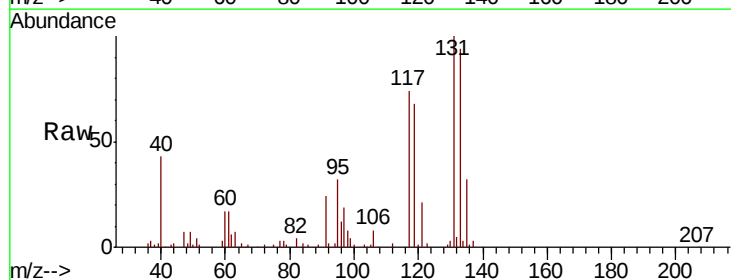
Instrument :
MSVOA_F
ClientSampleId :

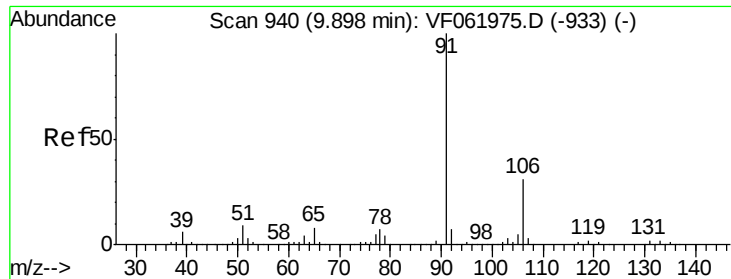
Tot Ion:112 Resp: 147824
Ion Ratio Lower Upper
112 100
114 32.4 26.9 40.3



#66
1,1,1,2-Tetrachloroethane
Concen: 23.580 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion:131 Resp: 59314
Ion Ratio Lower Upper
131 100
133 94.4 48.0 144.2
119 67.8 35.9 107.7





#67

Ethyl Benzene

Concen: 23.323 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

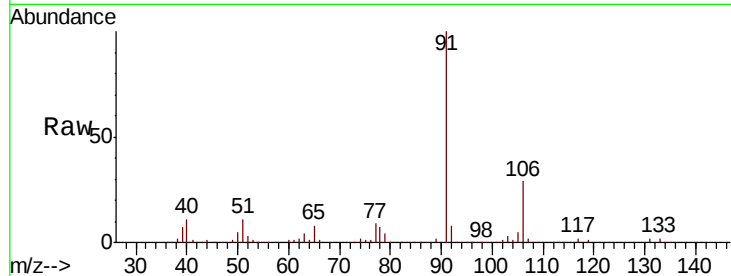
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 91 Resp: 259152

Ion Ratio Lower Upper

91 100

106 29.4 24.4 36.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

200000

150000

100000

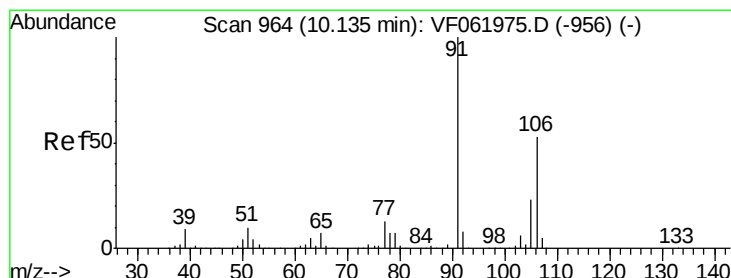
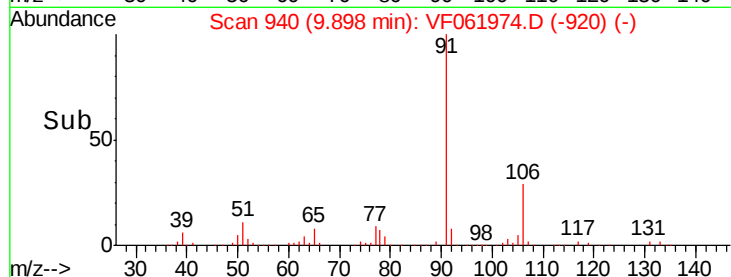
50000

0

9.90

9.80 9.90 10.00 10.10

Time-->



#68

m/p-Xylenes

Concen: 48.036 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF061974.D

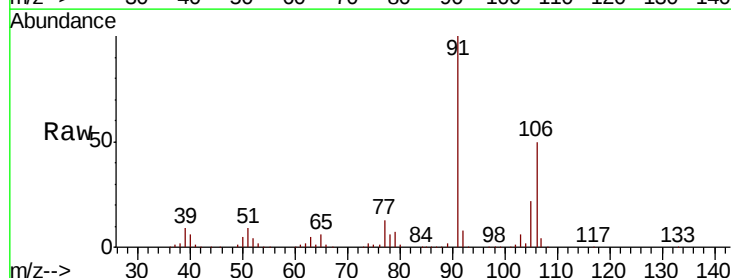
Acq: 16 Mar 2019 11:39

Tgt Ion: 106 Resp: 200748

Ion Ratio Lower Upper

106 100

91 198.6 151.9 227.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

100000

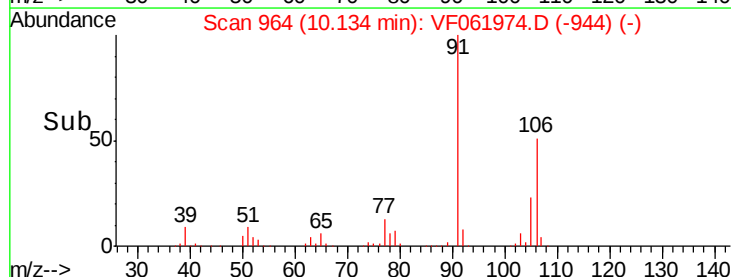
50000

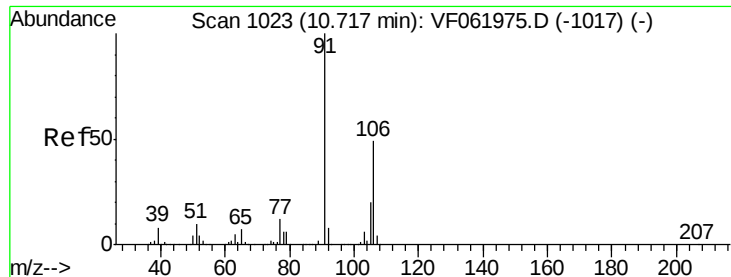
0

10.13

10.00 10.10 10.20

Time-->

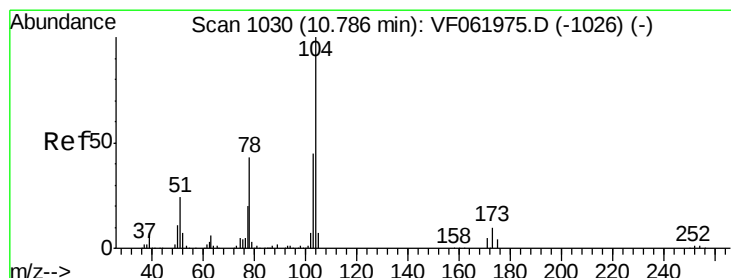
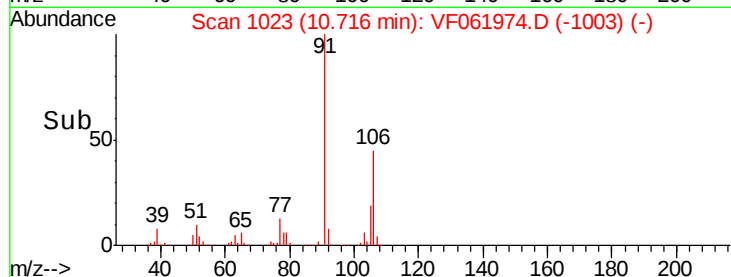
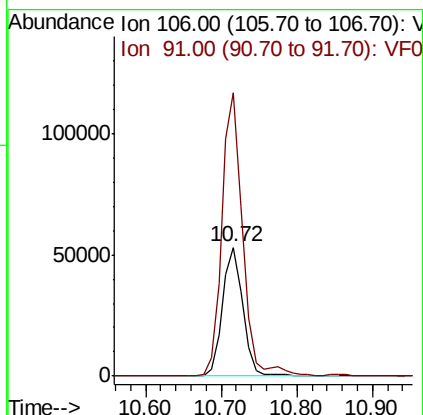
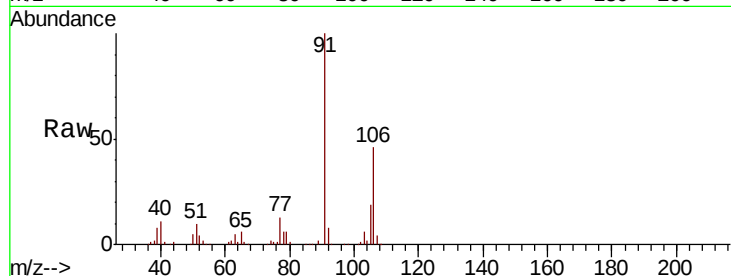




#69
o-Xylene
Concen: 22.288 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

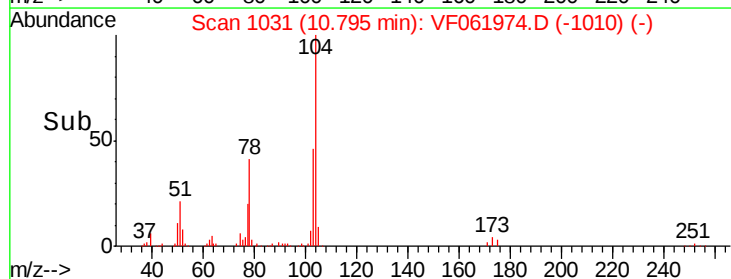
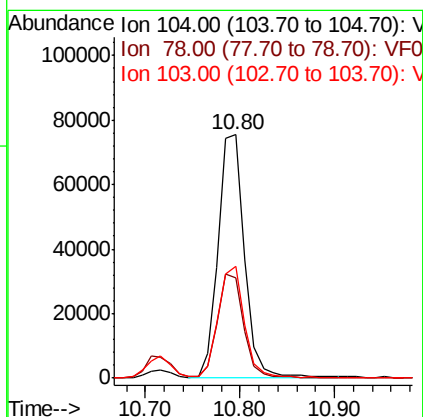
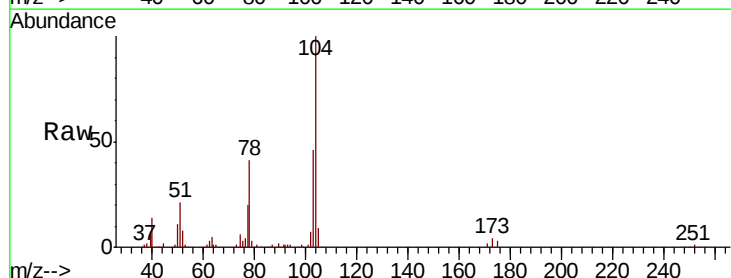
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:106 Resp: 99668
Ion Ratio Lower Upper
106 100
91 219.7 102.3 306.8



#70
Styrene
Concen: 23.485 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion:104 Resp: 145496
Ion Ratio Lower Upper
104 100
78 41.4 34.7 52.1
103 45.9 36.6 54.8





#71

Bromoform

Concen: 20.934 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

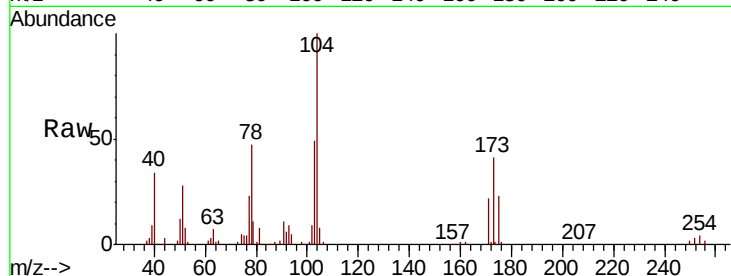
Tot Ion:173 Resp: 26636

Ion Ratio Lower Upper

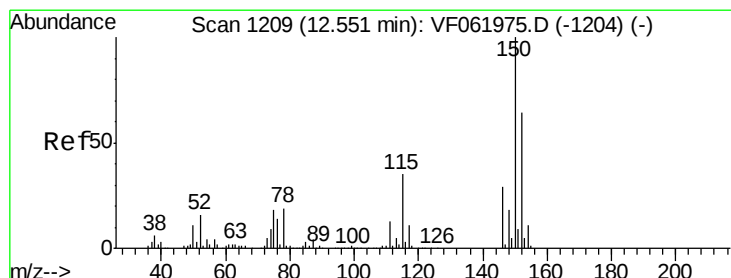
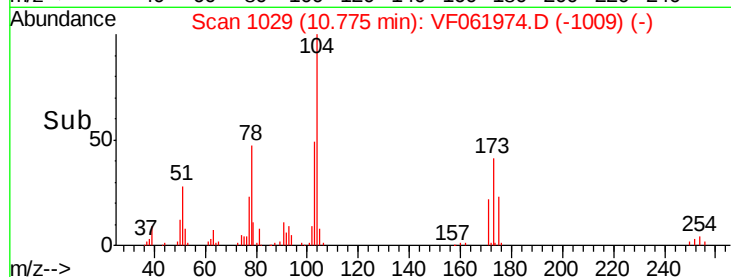
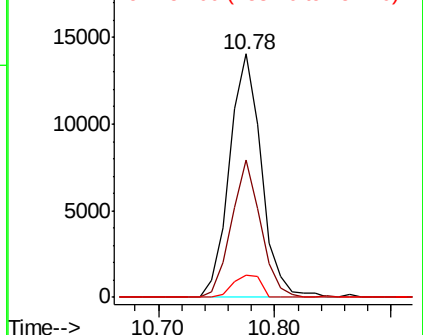
173 100

175 56.5 23.7 71.1

254 9.1 7.8 11.8



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: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

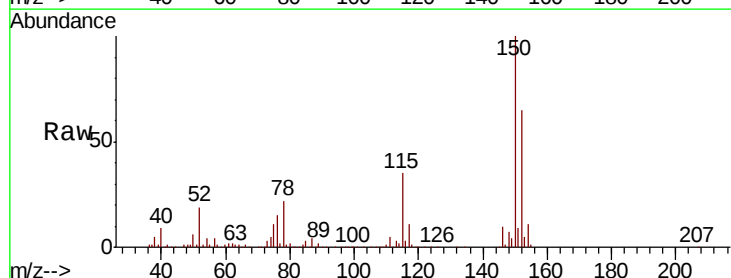
Tgt Ion:152 Resp: 188827

Ion Ratio Lower Upper

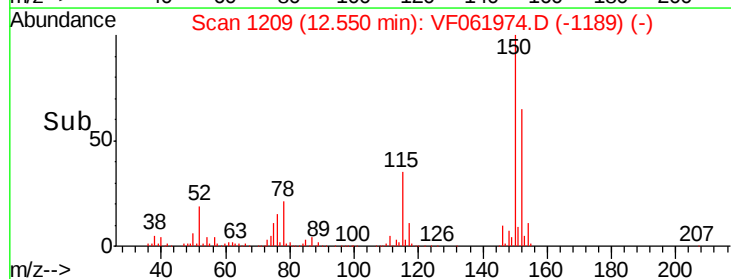
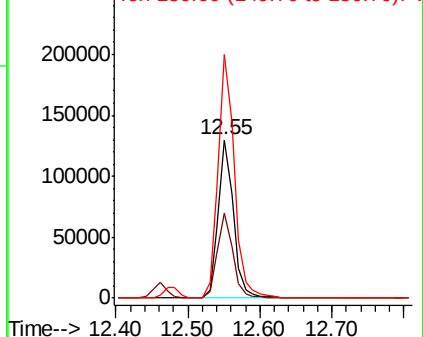
152 100

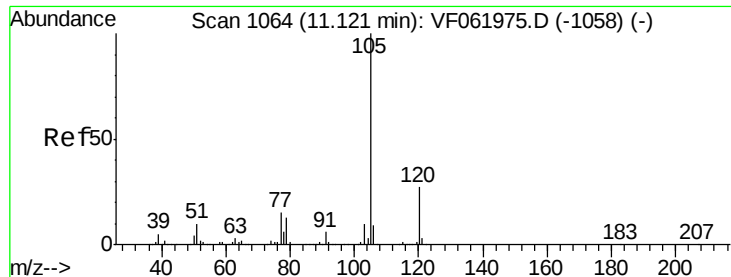
115 53.9 27.3 81.9

150 154.0 0.0 316.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.291 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

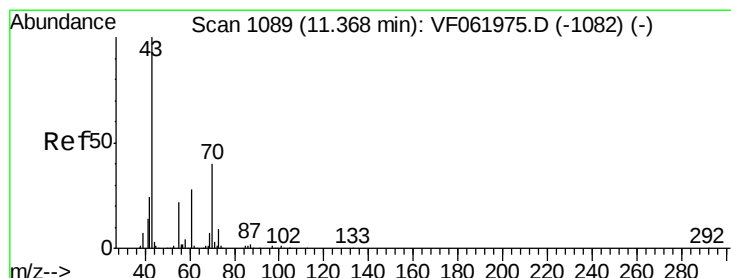
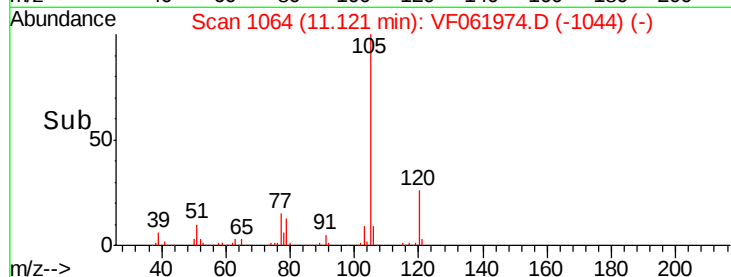
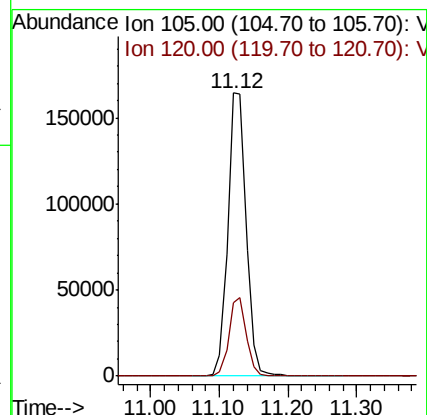
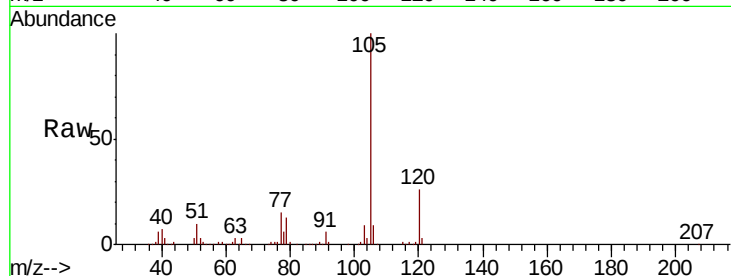
ClientSampleId :

Tot Ion:105 Resp: 303833

Ion Ratio Lower Upper

105 100

120 26.1 13.8 41.3



#74

N-ethyl acetate

Concen: 21.370 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Tgt Ion: 43 Resp: 63877

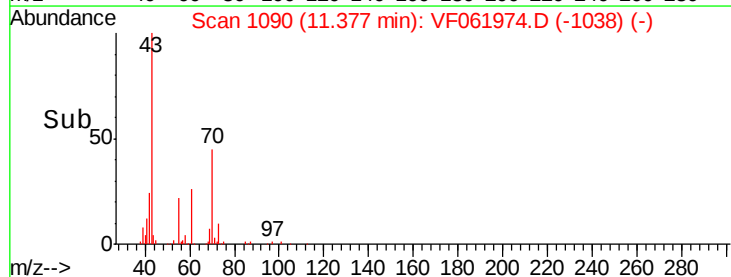
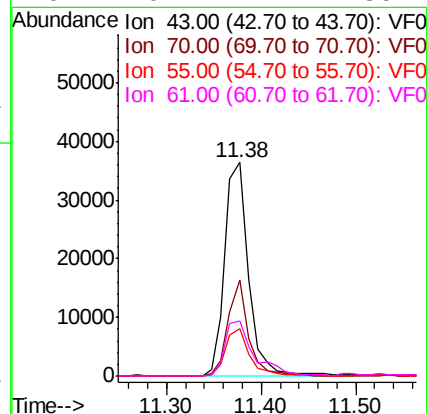
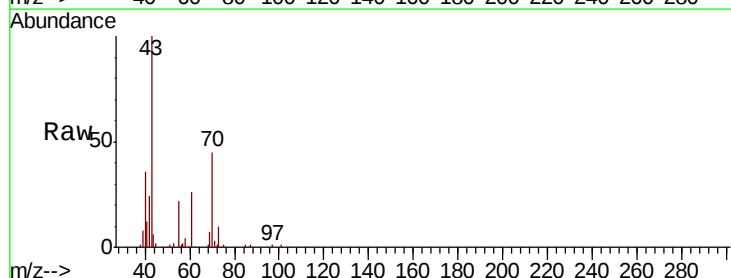
Ion Ratio Lower Upper

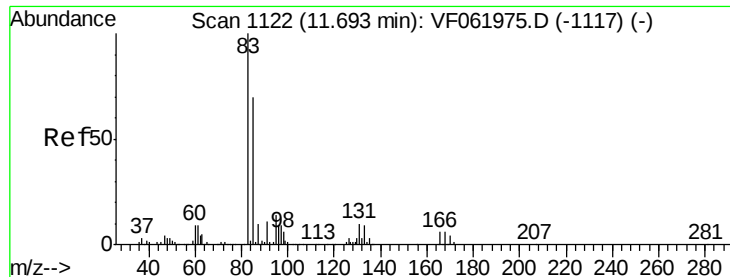
43 100

70 44.7 31.9 47.9

55 22.5 17.9 26.9

61 26.1 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.710 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

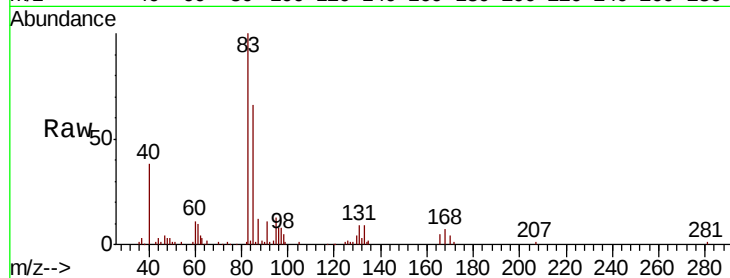
Tot Ion: 83 Resp: 46748

Ion Ratio Lower Upper

83 100

131 8.7 4.9 14.7

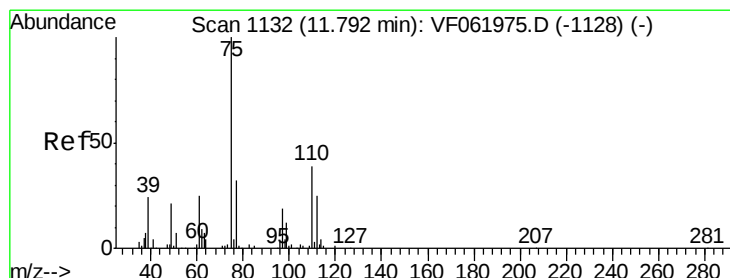
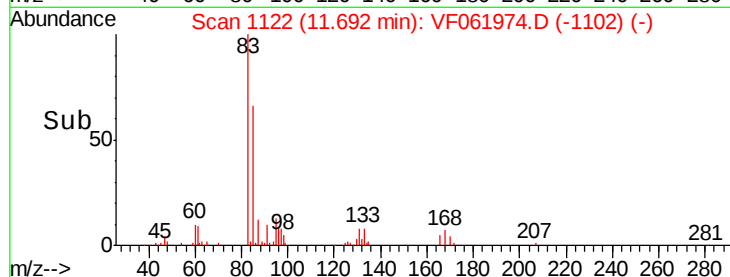
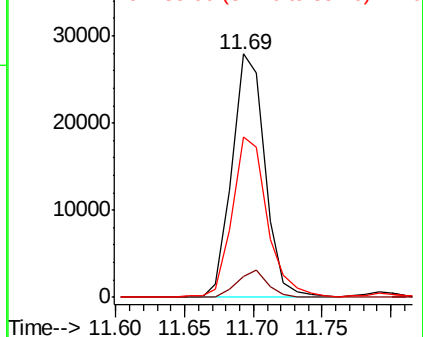
85 65.7 35.3 105.9



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: 21.300 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF061974.D

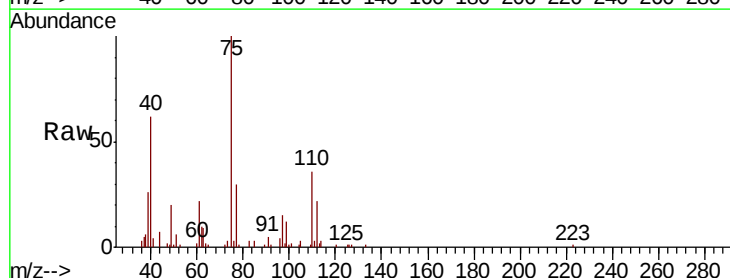
Acq: 16 Mar 2019 11:39

Tgt Ion: 75 Resp: 32072

Ion Ratio Lower Upper

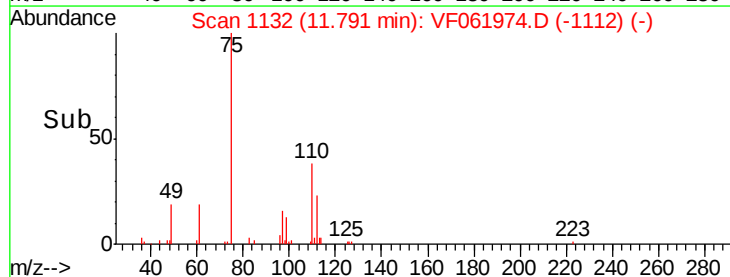
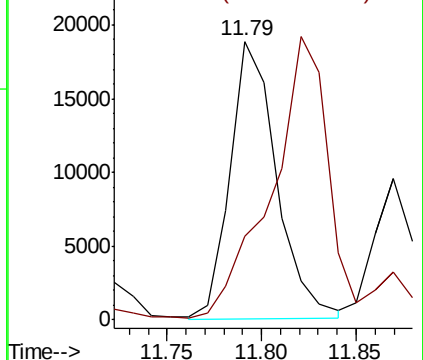
75 100

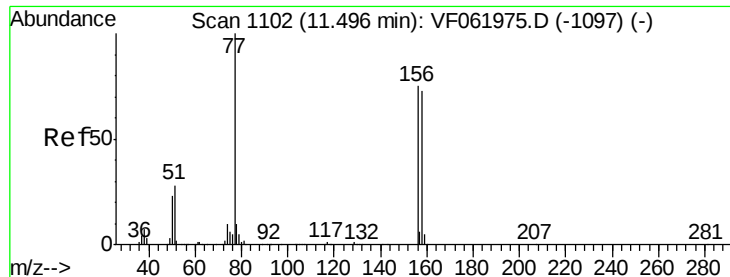
77 30.1 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.688 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

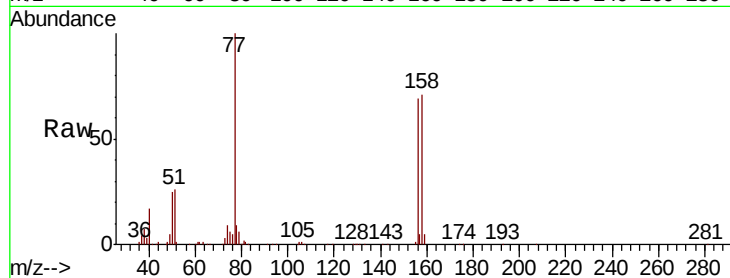
Tot Ion:156 Resp: 68543

Ion Ratio Lower Upper

156 100

77 144.5 67.0 201.0

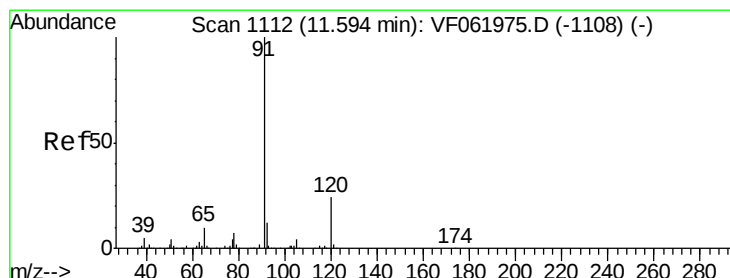
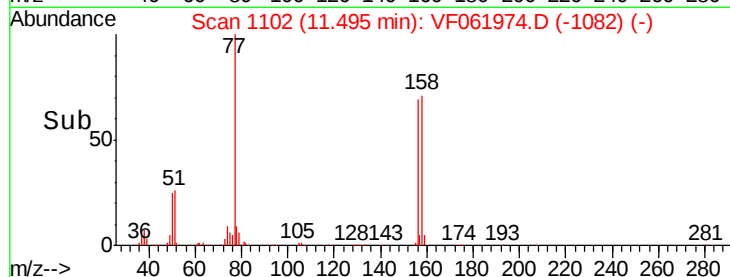
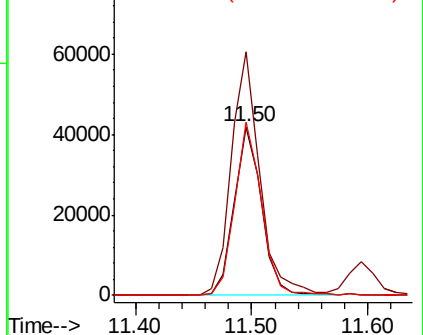
158 103.0 48.9 146.7



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: 23.588 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061974.D

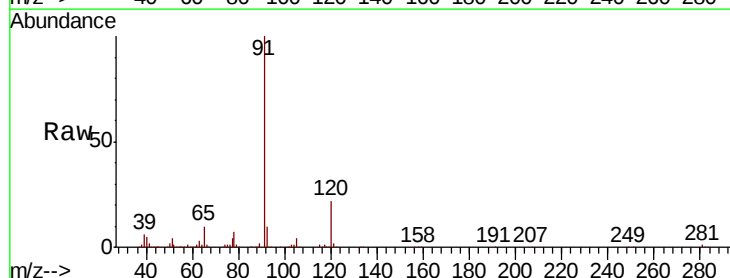
Acq: 16 Mar 2019 11:39

Tgt Ion: 91 Resp: 353825

Ion Ratio Lower Upper

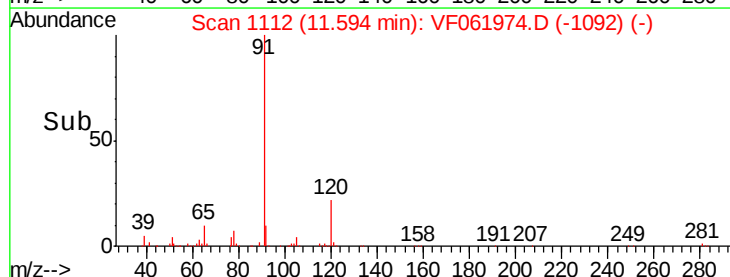
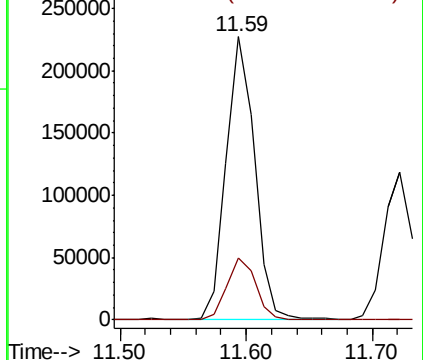
91 100

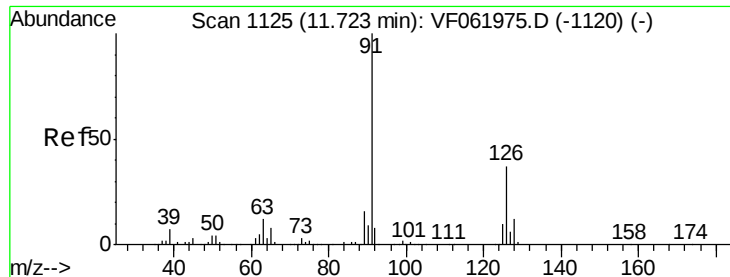
120 21.7 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.126 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

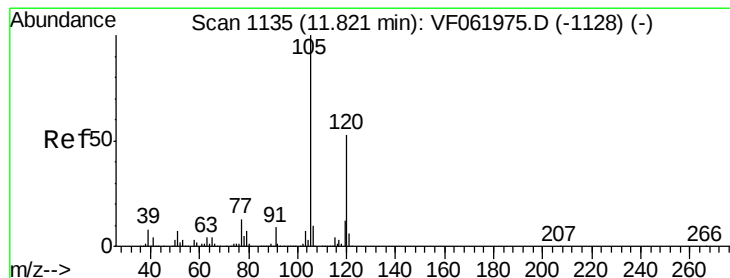
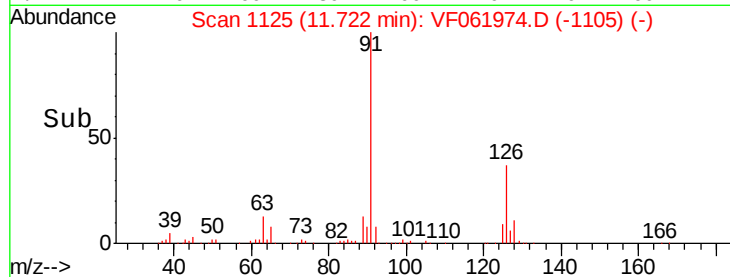
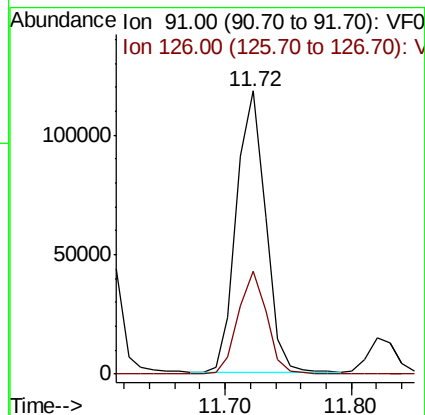
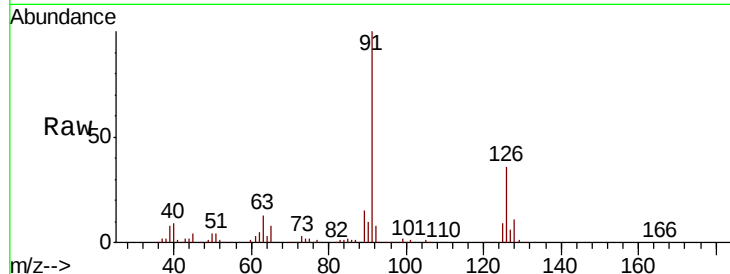
ClientSampleId :

Tot Ion: 91 Resp: 187337

Ion Ratio Lower Upper

91 100

126 36.3 18.4 55.2



#80

1,3,5-Trimethylbenzene

Concen: 22.896 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061974.D

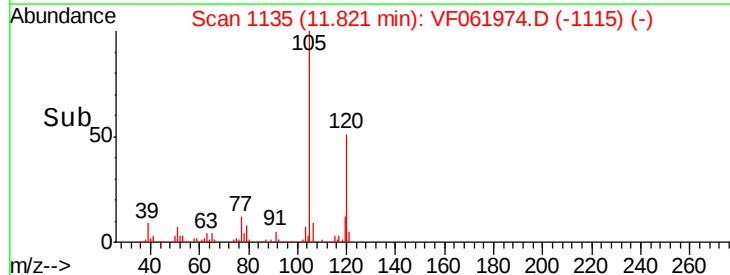
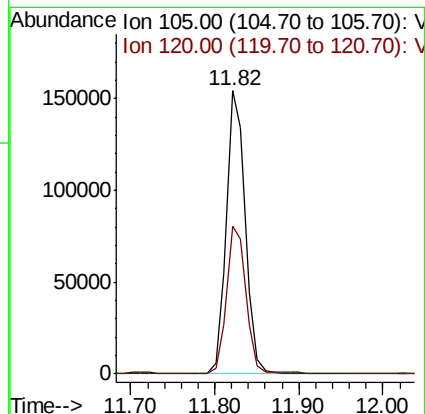
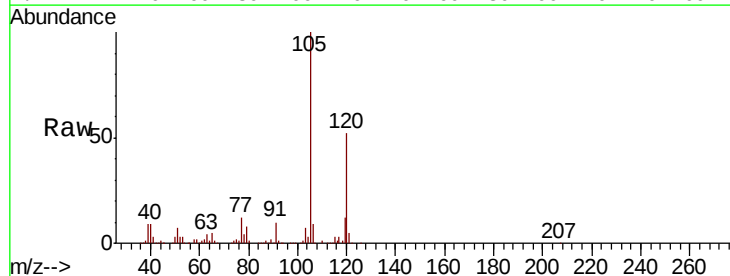
Acq: 16 Mar 2019 11:39

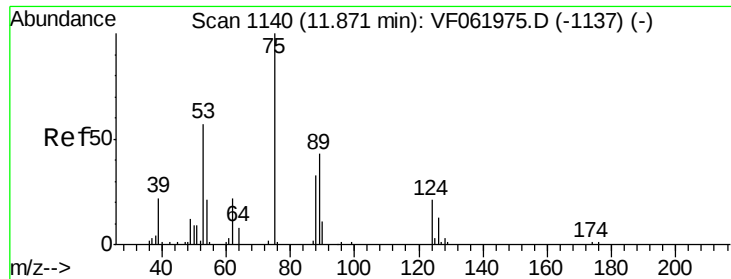
Tgt Ion:105 Resp: 241278

Ion Ratio Lower Upper

105 100

120 52.1 26.6 79.7

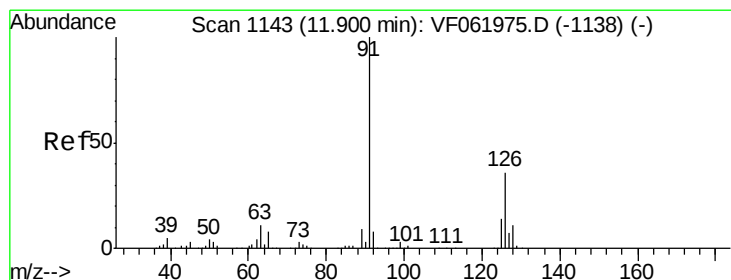
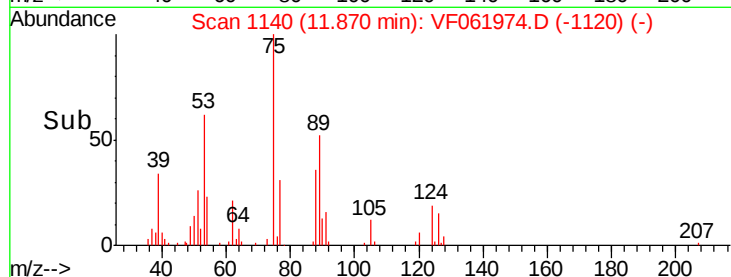
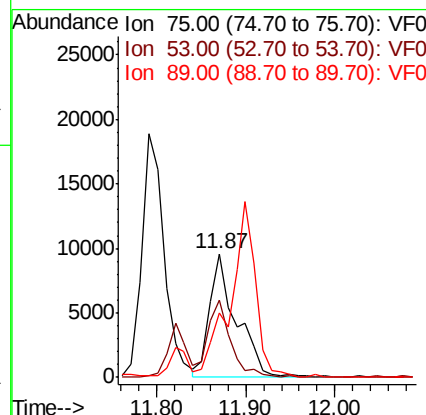
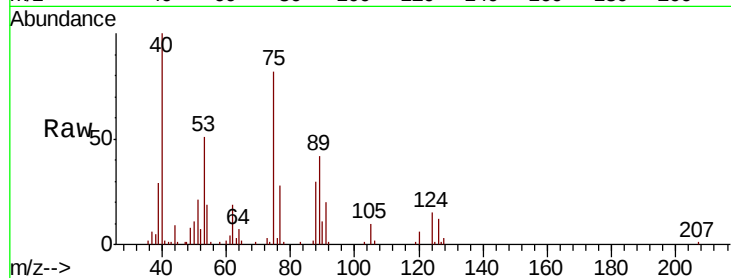




#81
trans-1,4-Dichloro-2-butene
Concen: 30.198 ug/l
RT: 11.87 min Scan# 1140
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

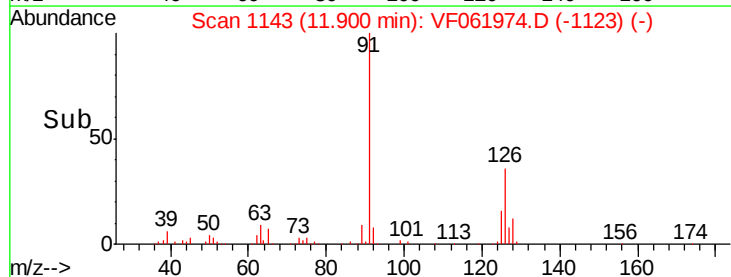
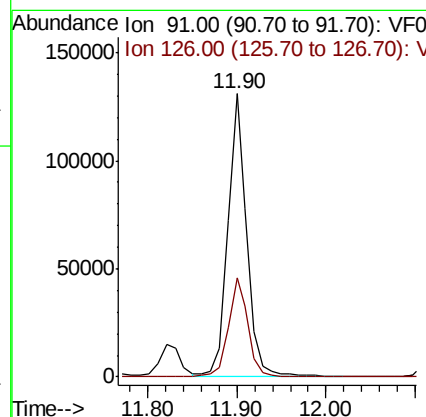
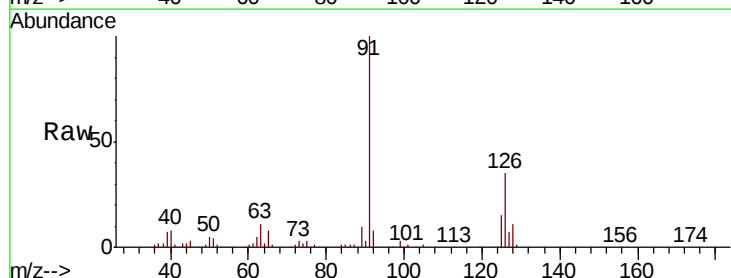
Instrument :
MSVOA_F
ClientSampleId :

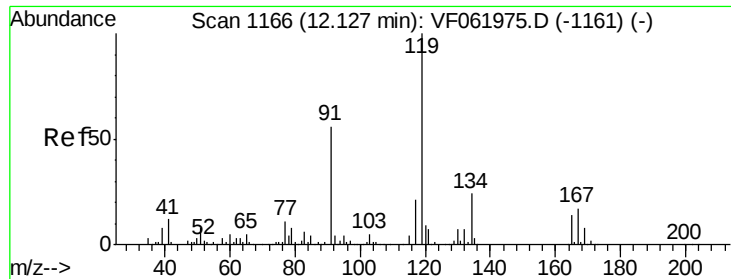
Tot Ion: 75 Resp: 20115
Ion Ratio Lower Upper
75 100
53 62.4 49.0 73.6
89 52.0 37.1 55.7



#82
4-Chlorotoluene
Concen: 22.596 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 91 Resp: 193469
Ion Ratio Lower Upper
91 100
126 35.1 18.1 54.1

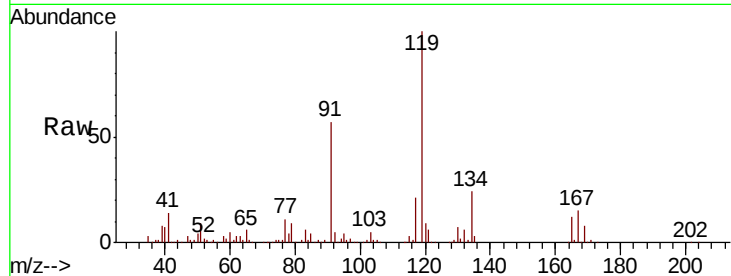




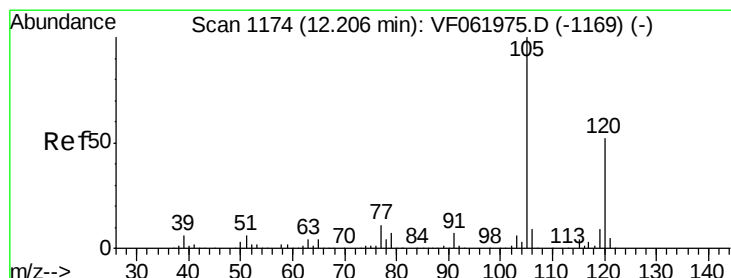
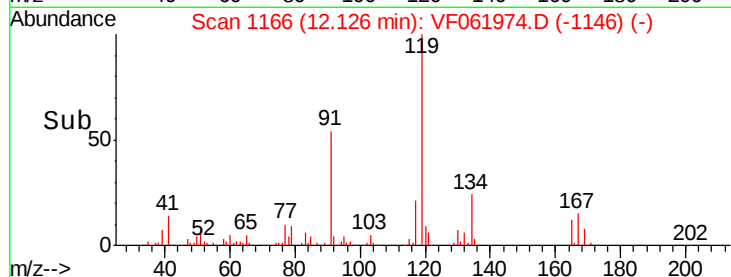
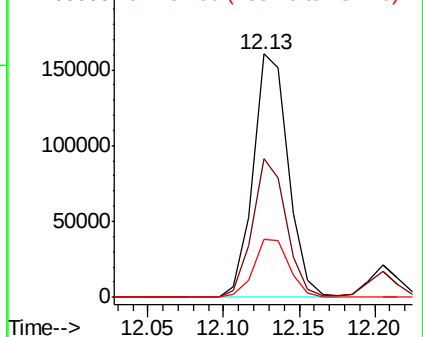
#83
tert-Butylbenzene
Concen: 23.602 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:119 Resp: 260109
Ion Ratio Lower Upper
119 100
91 56.8 27.9 83.6
134 23.8 12.3 36.8

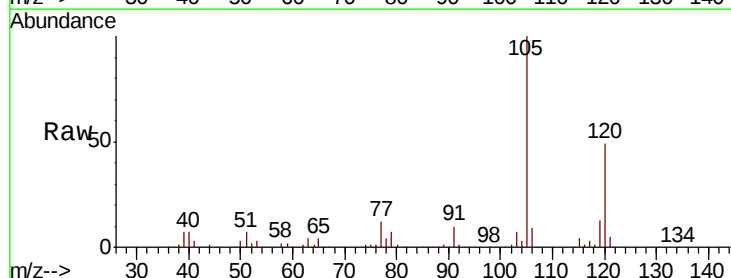


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

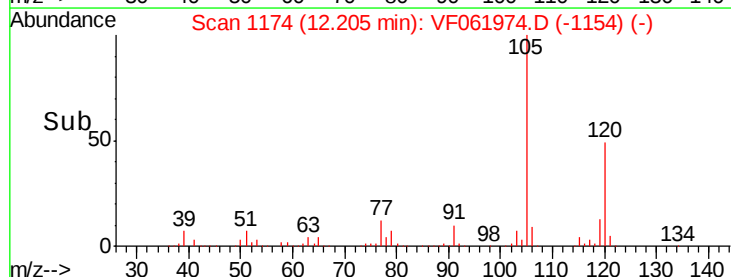
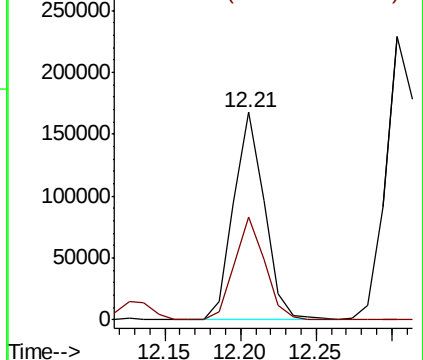


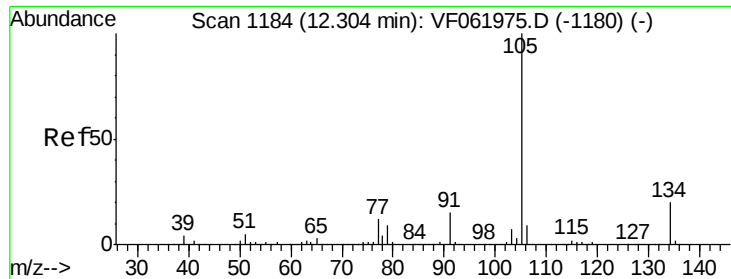
#84
1,2,4-Trimethylbenzene
Concen: 22.595 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion:105 Resp: 238490
Ion Ratio Lower Upper
105 100
120 49.4 25.9 77.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

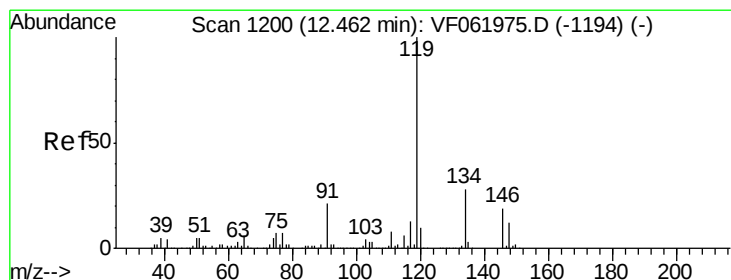
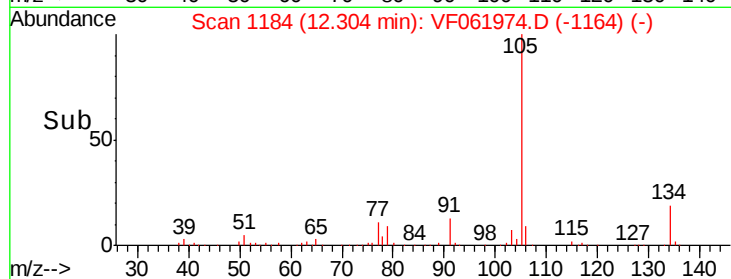
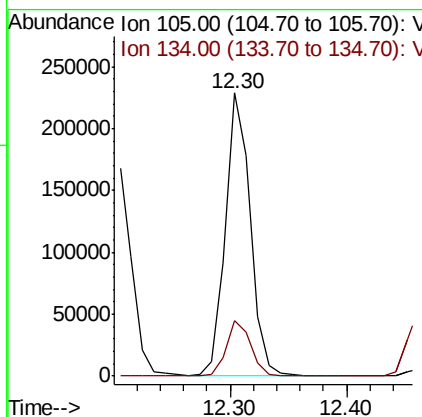
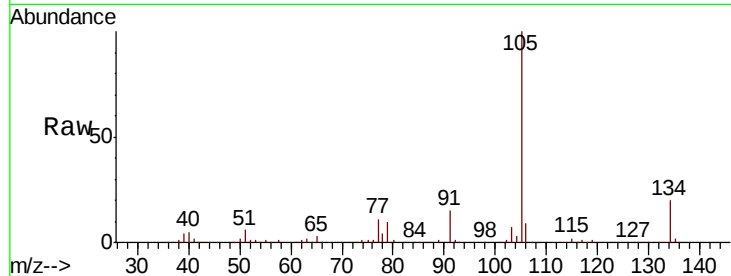




#85
 sec-Butylbenzene
 Concen: 22.726 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

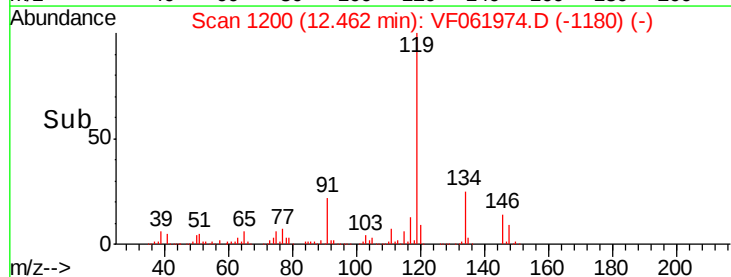
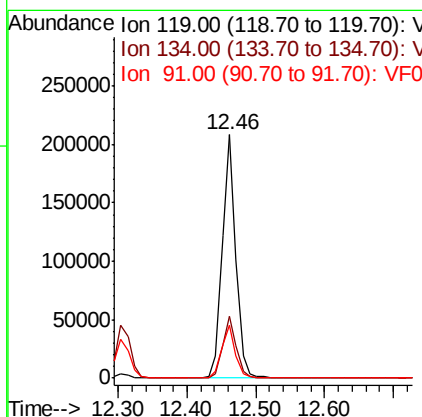
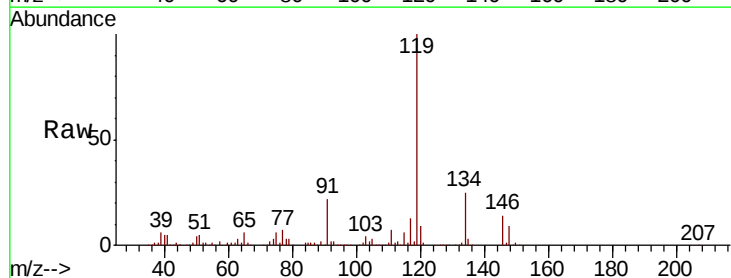
Instrument :
 MSVOA_F
 ClientSampleId :

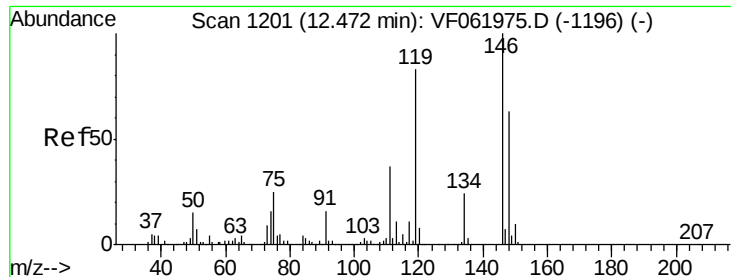
Tot Ion:105 Resp: 338390
 Ion Ratio Lower Upper
 105 100
 134 19.8 10.0 29.8



#86
 p-Isopropyltoluene
 Concen: 22.791 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion:119 Resp: 283163
 Ion Ratio Lower Upper
 119 100
 134 25.3 13.9 41.7
 91 21.7 10.4 31.1





#87

1,3-Dichlorobenzene

Concen: 22.753 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

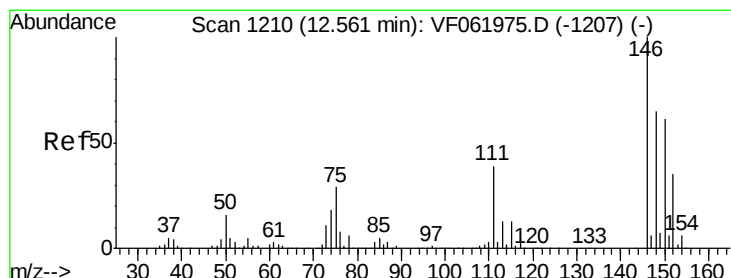
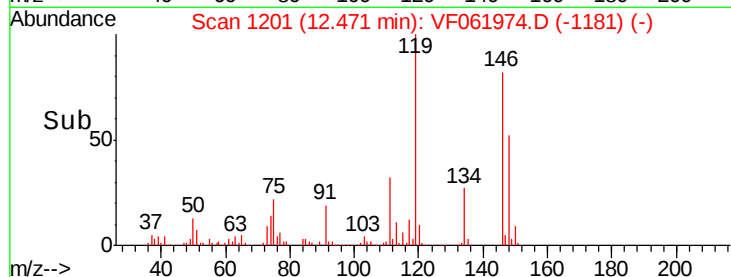
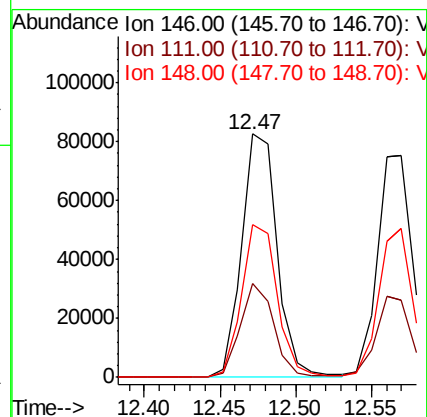
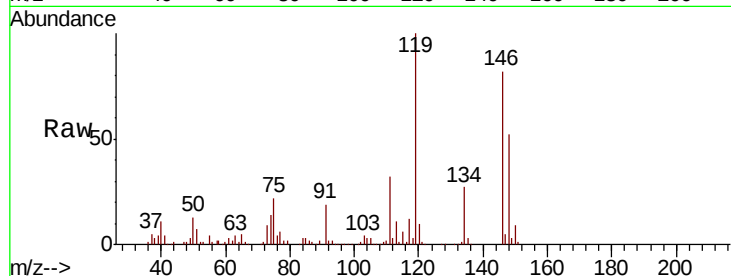
Tot Ion:146 Resp: 135098

Ion Ratio Lower Upper

146 100

111 38.8 18.6 55.8

148 62.8 31.3 93.9



#88

1,4-Dichlorobenzene

Concen: 22.495 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. 0.01 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

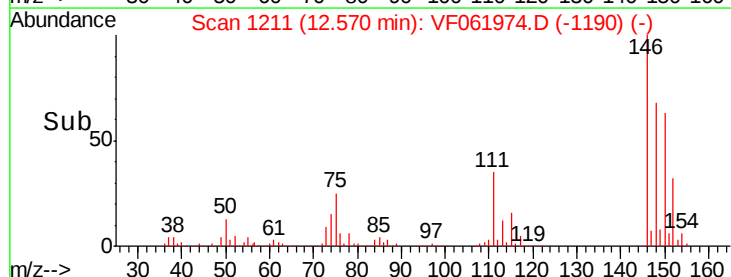
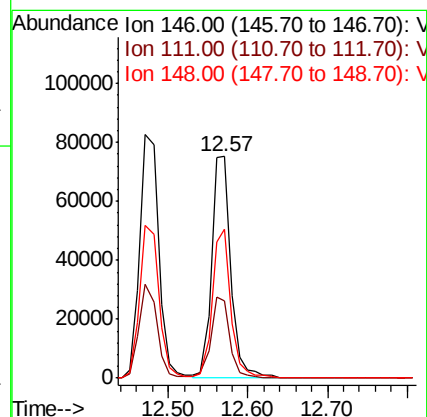
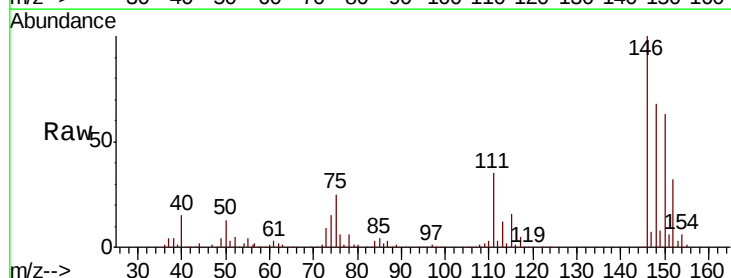
Tgt Ion:146 Resp: 128560

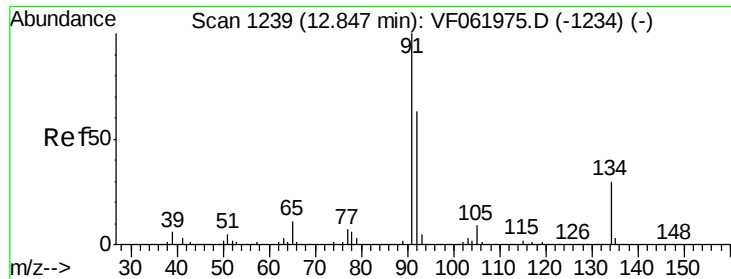
Ion Ratio Lower Upper

146 100

111 35.0 19.4 58.1

148 67.5 32.4 97.0

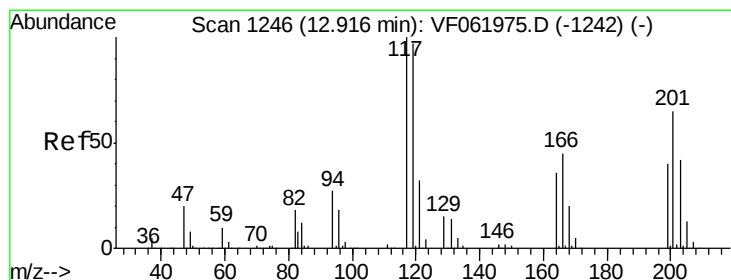
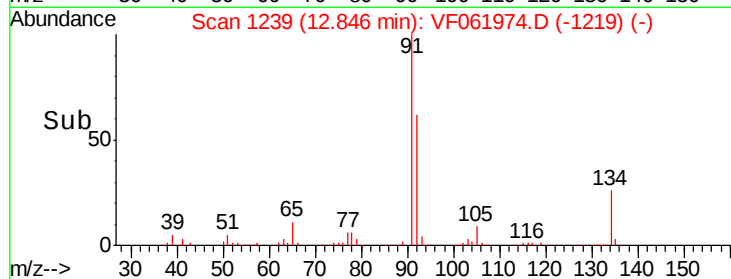
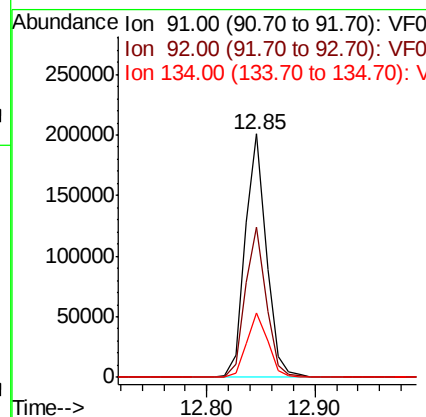
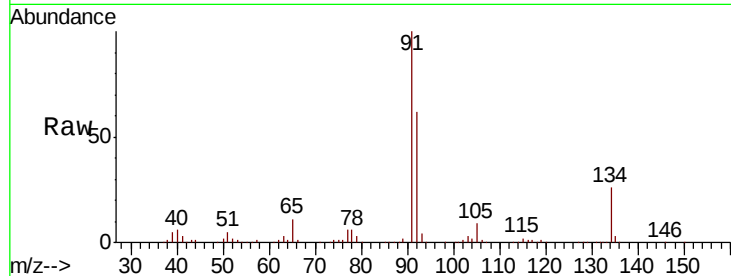




#89
n-Butylbenzene
Concen: 23.393 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

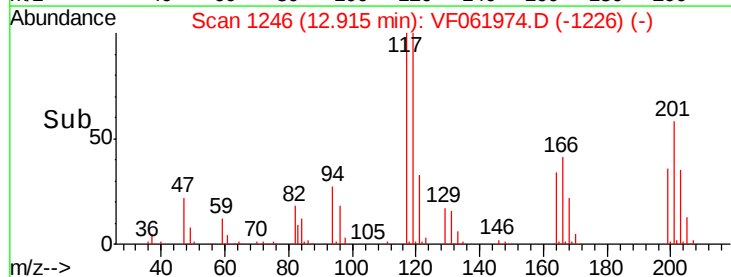
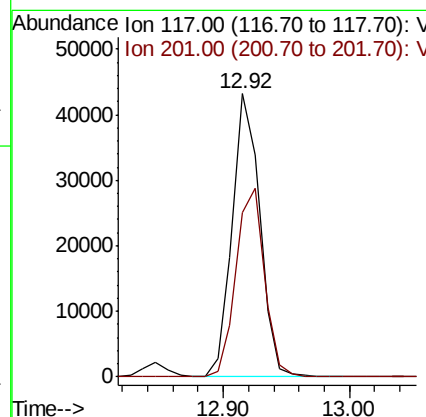
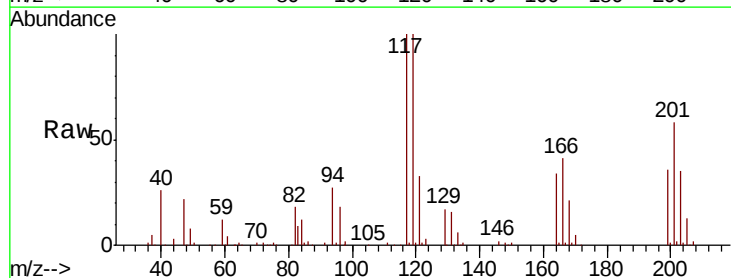
Instrument :
MSVOA_F
ClientSampled :

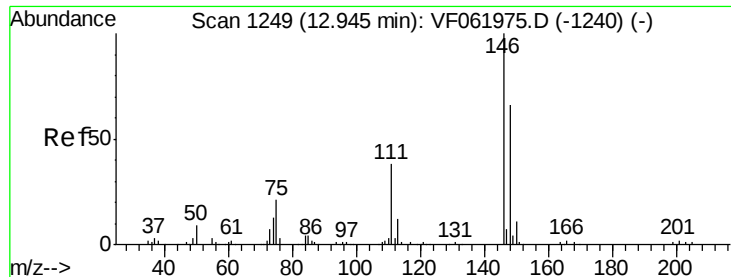
Tot Ion: 91 Resp: 273116
Ion Ratio Lower Upper
91 100
92 61.5 31.7 95.1
134 26.2 15.1 45.3



#90
Hexachloroethane
Concen: 23.021 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion: 117 Resp: 65274
Ion Ratio Lower Upper
117 100
201 58.0 32.5 97.5





#91

1,2-Dichlorobenzene

Concen: 22.687 ug/l

RT: 12.94 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

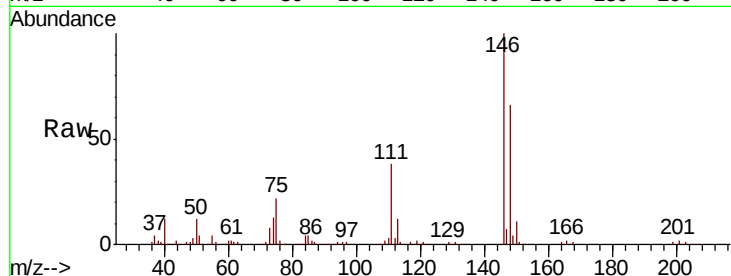
Tot Ion:146 Resp: 124761

Ion Ratio Lower Upper

146 100

111 38.5 18.9 56.5

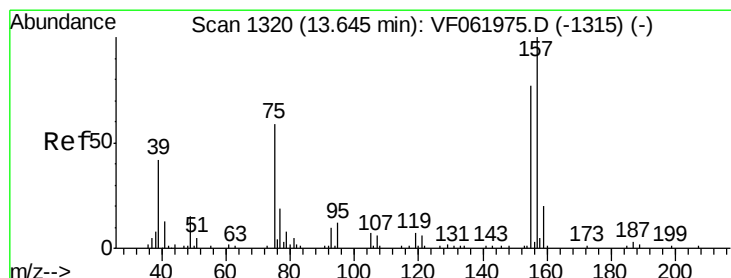
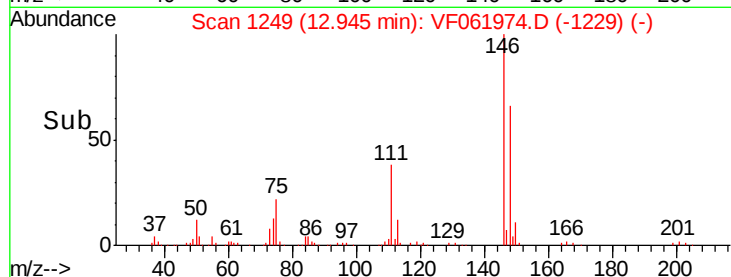
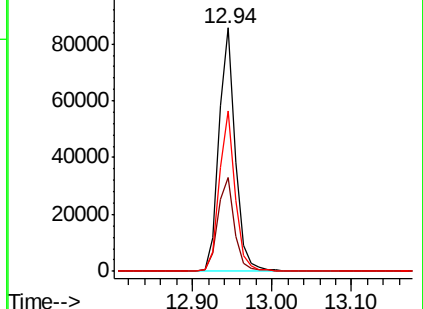
148 66.0 32.9 98.6



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: 20.658 ug/l

RT: 13.64 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VF061974.D

Acq: 16 Mar 2019 11:39

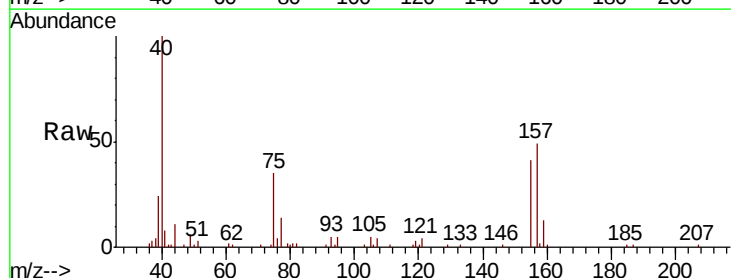
Tgt Ion: 75 Resp: 7138

Ion Ratio Lower Upper

75 100

155 116.3 65.0 195.1

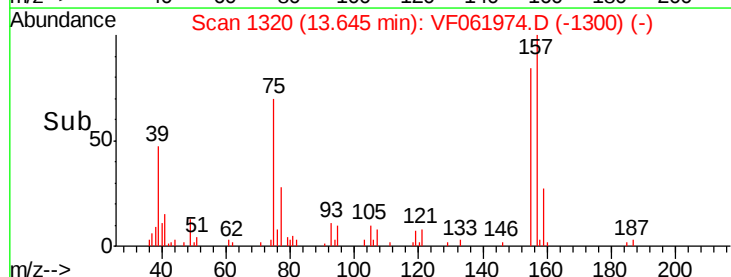
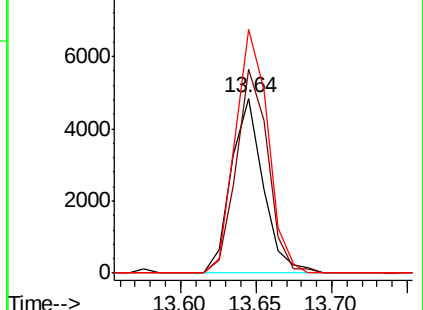
157 139.1 84.7 254.0

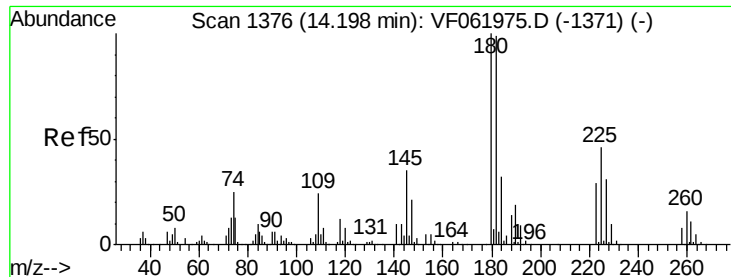


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

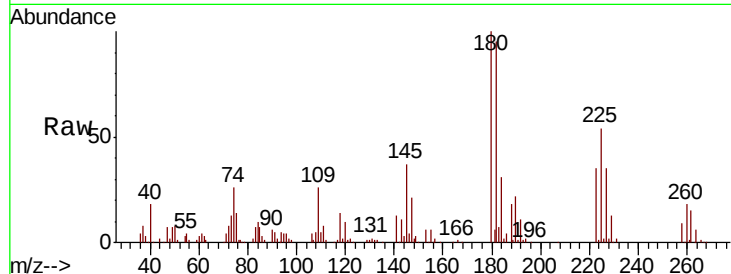




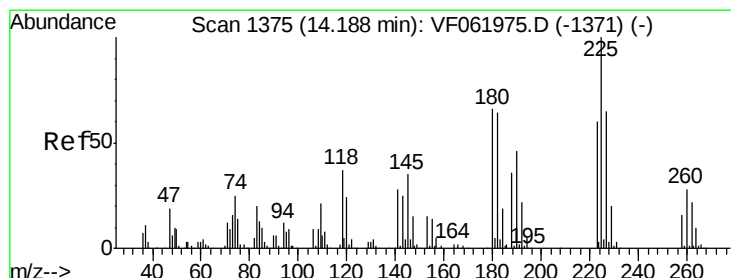
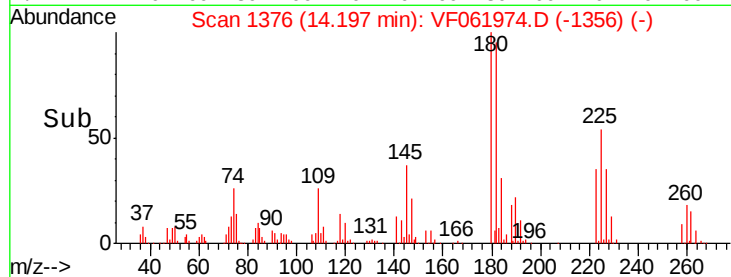
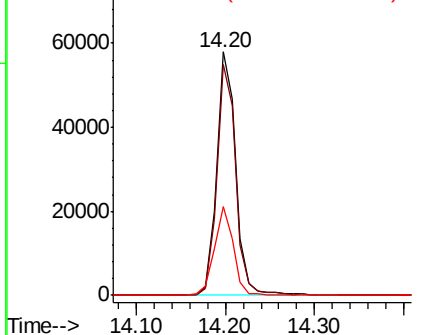
#93
 1,2,4-Trichlorobenzene
 Concen: 22.713 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:180 Resp: 86982
 Ion Ratio Lower Upper
 180 100
 182 94.8 49.6 149.0
 145 36.7 17.5 52.5

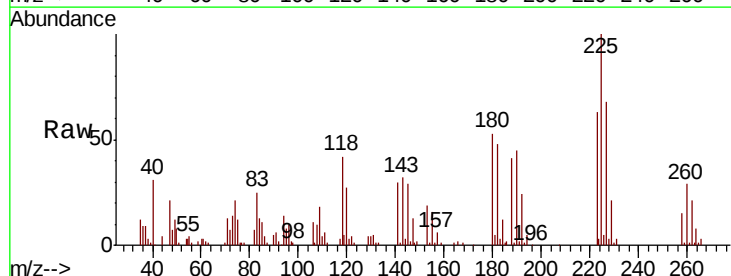


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

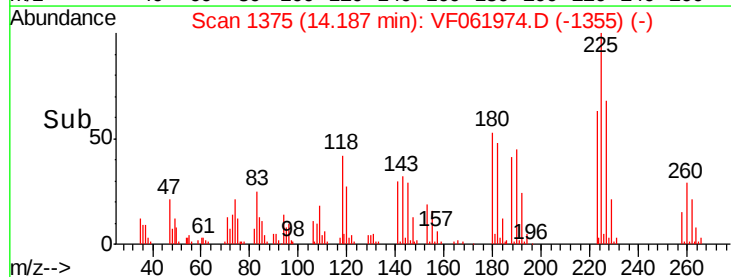
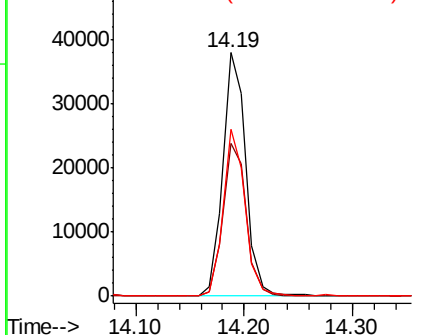


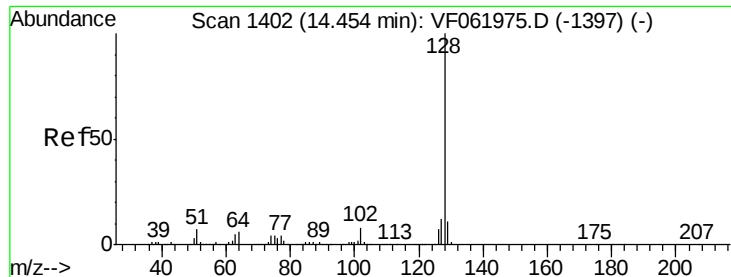
#94
 Hexachlorobutadiene
 Concen: 22.013 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061974.D
 Acq: 16 Mar 2019 11:39

Tgt Ion:225 Resp: 55963
 Ion Ratio Lower Upper
 225 100
 223 62.8 29.9 89.7
 227 68.3 32.4 97.2



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

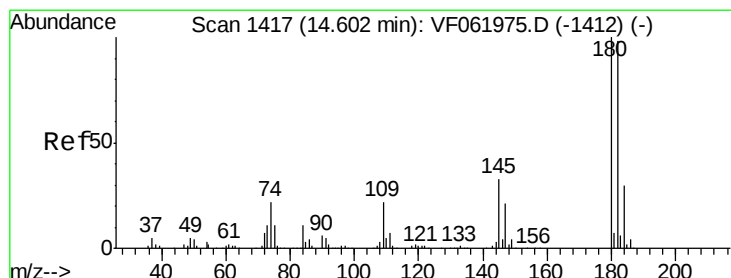
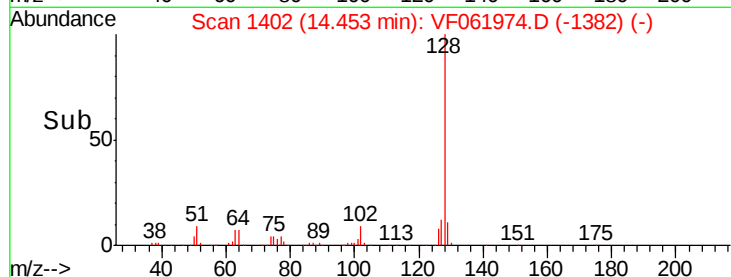
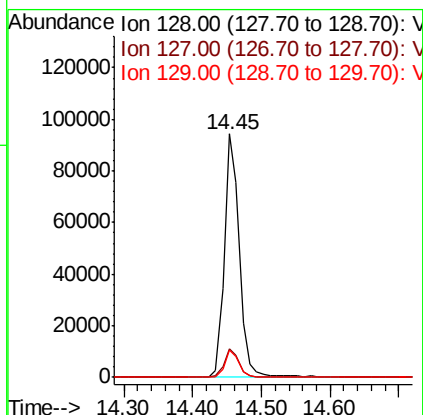
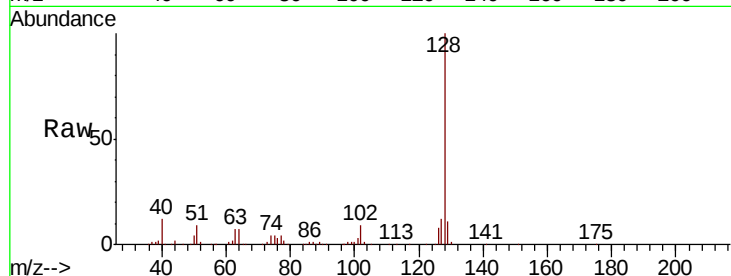




#95
Naphthalene
Concen: 20.846 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 143578
Ion Ratio Lower Upper
128 100
127 12.0 9.3 13.9
129 11.5 9.1 13.7



#96
1,2,3-Trichlorobenzene
Concen: 22.487 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061974.D
Acq: 16 Mar 2019 11:39

Tgt Ion:180 Resp: 79225
Ion Ratio Lower Upper
180 100
182 97.0 48.9 146.8
145 34.6 16.7 50.1

