

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031619\
 Data File : VF061976.D
 Acq On : 16 Mar 2019 13:22
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 22 02:34:54 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	262173	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	415330	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	355360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	185924	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	146859	77.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	155.64%	
35) Dibromofluoromethane	4.11	113	195993	70.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	140.54%	
50) Toluene-d8	7.55	98	576553	70.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	141.44%	
62) 4-Bromofluorobenzene	11.41	95	227978	70.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	140.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	175449	62.776	ug/l	99
3) Chloromethane	1.10	50	188387	66.329	ug/l #	87
4) Vinyl Chloride	1.14	62	185644	67.583	ug/l	98
5) Bromomethane	1.32	94	120958	62.683	ug/l	99
6) Chloroethane	1.39	64	95072	67.044	ug/l	100
7) Trichlorofluoromethane	1.48	101	244350	67.144	ug/l	98
8) Diethyl Ether	1.63	74	53887	66.608	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.83	101	164169	64.028	ug/l	95
10) Methyl Iodide	1.91	142	237442	52.910	ug/l	96
11) Tert butyl alcohol	2.57	59	42698	369.741	ug/l #	89
12) 1,1-Dichloroethene	1.79	96	138794	62.725	ug/l	93
13) Acrolein	2.00	56	37098	297.582	ug/l	88
14) Allyl chloride	2.10	41	193795	68.611	ug/l	95
15) Acrylonitrile	2.94	53	126046	358.930	ug/l	95
16) Acetone	2.24	43	168594	397.830	ug/l	100
17) Carbon Disulfide	1.76	76	65812	10.284	ug/l	98
18) Methyl Acetate	2.35	43	67915	75.446	ug/l	93
19) Methyl tert-butyl Ether	2.44	73	275364	68.677	ug/l	100
20) Methylene Chloride	2.18	84	53932	24.719	ug/l	94
21) trans-1,2-Dichloroethene	2.31	96	148381	64.258	ug/l	98
22) Diisopropyl ether	2.80	45	447945	65.932	ug/l	97
23) Vinyl Acetate	3.18	43	977766	365.074	ug/l	98
24) 1,1-Dichloroethane	2.87	63	264376	66.923	ug/l	100
25) 2-Butanone	4.33	43	300343	357.854	ug/l	97
26) 2,2-Dichloropropane	3.60	77	123747	66.410	ug/l	98
27) cis-1,2-Dichloroethene	3.47	96	197863	67.983	ug/l	99
28) Bromochloromethane	3.72	49	117217	71.509	ug/l	97
29) Tetrahydrofuran	4.07	42	120856	331.110	ug/l	98
30) Chloroform	3.86	83	292373	65.320	ug/l	96
31) Cyclohexane	3.69	56	152834	39.488	ug/l	99
32) 1,1,1-Trichloroethane	4.09	97	195124	65.642	ug/l	92
36) 1,1-Dichloropropene	4.28	75	242344	64.614	ug/l	98
37) Ethyl Acetate	4.11	43	105832	62.843	ug/l	87
38) Carbon Tetrachloride	3.98	117	177923	64.910	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	274652	62.376	ug/l	95
40) Benzene	4.63	78	626180	63.007	ug/l	98
41) Methacrylonitrile	4.74	41	59395	66.012	ug/l	94
42) 1,2-Dichloroethane	4.94	62	164311	66.415	ug/l	97
43) Isopropyl Acetate	6.95	43	127771	64.125	ug/l #	92
44) Trichloroethene	5.50	130	185221	60.839	ug/l	96
45) 1,2-Dichloropropane	6.23	63	153915	65.441	ug/l	94
46) Dibromomethane	6.08	93	95127	67.990	ug/l	95
47) Bromodichloromethane	6.38	83	215242	65.253	ug/l	96
48) Methyl methacrylate	6.71	41	81717	63.457	ug/l #	90
49) 1,4-Dioxane	6.71	88	16602	1449.374	ug/l #	81
51) 4-Methyl-2-Pentanone	8.25	43	472110	333.666	ug/l	93
52) Toluene	7.62	92	380381	62.642	ug/l	98
53) t-1,3-Dichloropropene	8.27	75	181177	65.059	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	246834	67.930	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	106930	63.094	ug/l	98
56) Ethyl methacrylate	8.62	69	122399	63.533	ug/l	96
57) 1,3-Dichloropropane	8.85	76	180967	64.012	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.30	63	134639	385.839	ug/l	90
59) 2-Hexanone	9.49	43	349171	340.993	ug/l	97
60) Dibromochloromethane	8.72	129	159579	67.826	ug/l	91
61) 1,2-Dibromoethane	8.98	107	118894	65.402	ug/l	94
64) Tetrachloroethene	8.15	164	159675	61.816	ug/l	97
65) Chlorobenzene	9.79	112	434990	65.747	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	170749	66.580	ug/l	99
67) Ethyl Benzene	9.90	91	707733	62.474	ug/l	99
68) m/p-Xylenes	10.13	106	509703	119.629	ug/l	97
69) o-Xylene	10.71	106	276607	60.672	ug/l	99
70) Styrene	10.79	104	385361	61.012	ug/l	98
71) Bromoform	10.77	173	87703	67.611	ug/l	97
73) Isopropylbenzene	11.12	105	782127	60.891	ug/l	99
74) N-amyl acetate	11.37	43	219835	74.693	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	140715	66.370	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	96872	65.341	ug/l	97
77) Bromobenzene	11.50	156	192030	64.557	ug/l	96
78) n-propylbenzene	11.60	91	882858	59.775	ug/l	98
79) 2-Chlorotoluene	11.71	91	530983	63.692	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	619944	59.749	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	55861	85.172	ug/l	91
82) 4-Chlorotoluene	11.90	91	516738	61.293	ug/l	98
83) tert-Butylbenzene	12.13	119	683418	62.981	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	631494	60.763	ug/l	97
85) sec-Butylbenzene	12.31	105	916013	62.480	ug/l	96
86) p-Isopropyltoluene	12.45	119	753315	61.578	ug/l	96
87) 1,3-Dichlorobenzene	12.47	146	349534	59.787	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	360543	64.073	ug/l	99
89) n-Butylbenzene	12.84	91	724401	63.016	ug/l	97
90) Hexachloroethane	12.92	117	186205	66.697	ug/l	95
91) 1,2-Dichlorobenzene	12.94	146	348681	64.394	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	23996	70.529	ug/l	72

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QLast Update : Fri Mar 22 02:28:16 2019
Response via : Initial Calibration

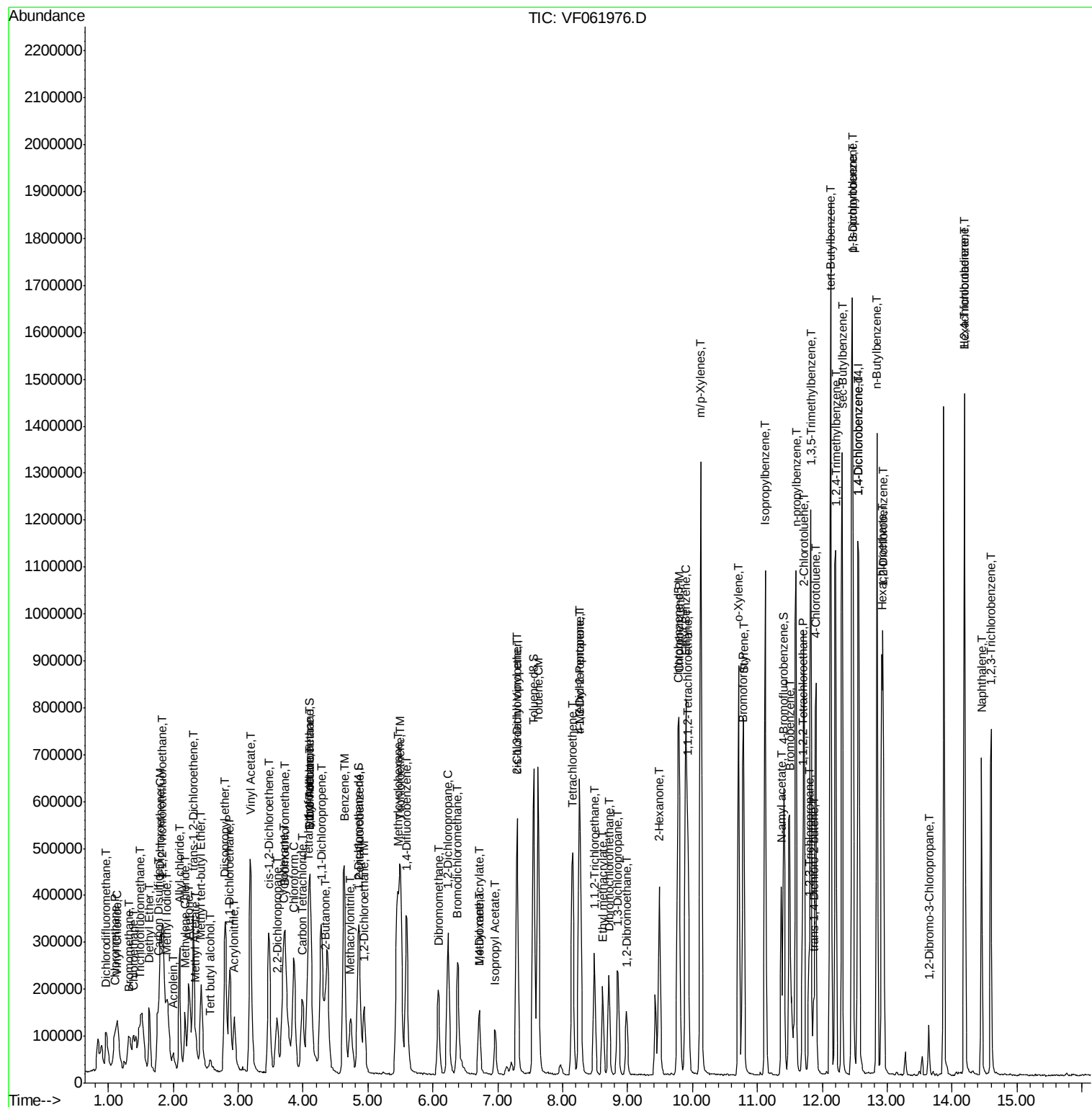
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	244392	64.814	ug/l	97
94) Hexachlorobutadiene	14.19	225	158624	63.368	ug/l	97
95) Naphthalene	14.46	128	488114	71.976	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	241577	69.638	ug/l	97

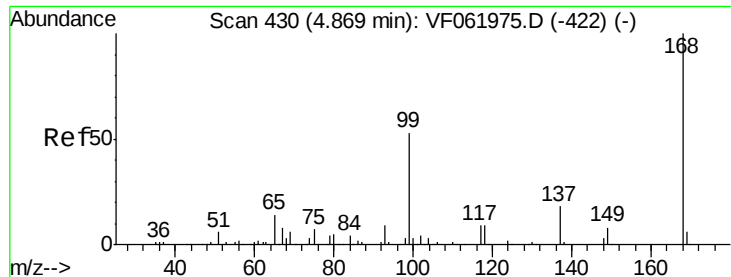
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061976.D

Acq: 16 Mar 2019 13:22

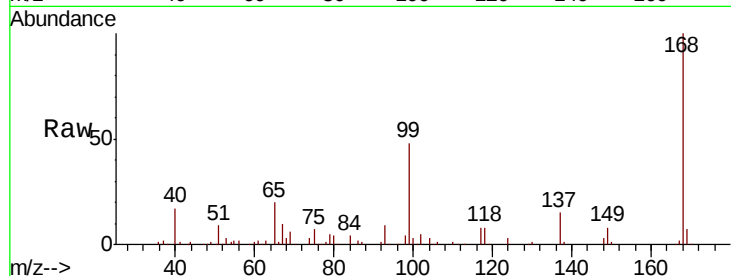
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 262173

Ion Ratio Lower Upper

168 100

99 48.3 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

80000

60000

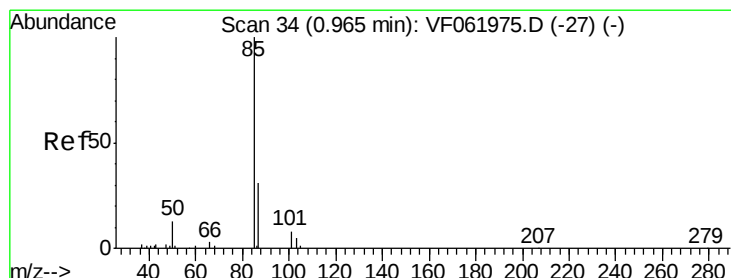
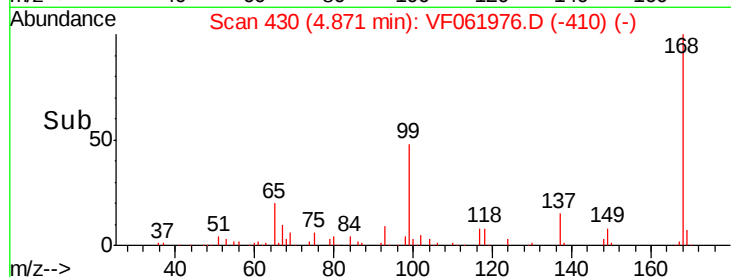
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 62.776 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061976.D

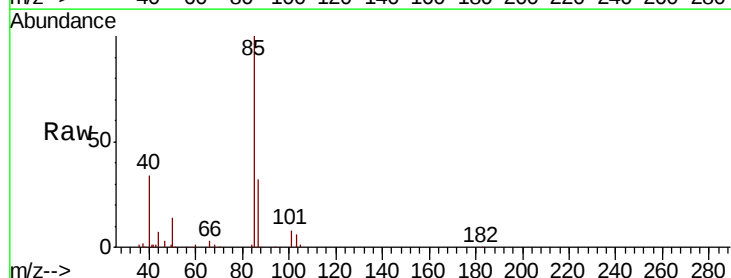
Acq: 16 Mar 2019 13:22

Tgt Ion: 85 Resp: 175449

Ion Ratio Lower Upper

85 100

87 31.6 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

50000

40000

30000

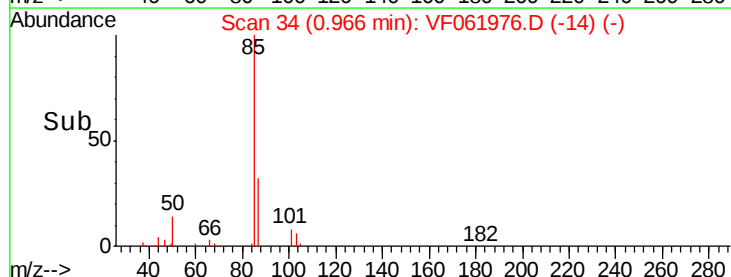
20000

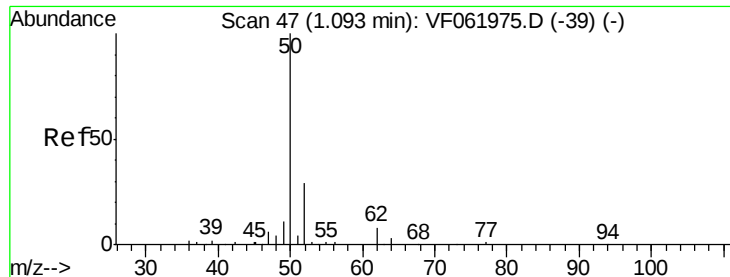
10000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 66.329 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

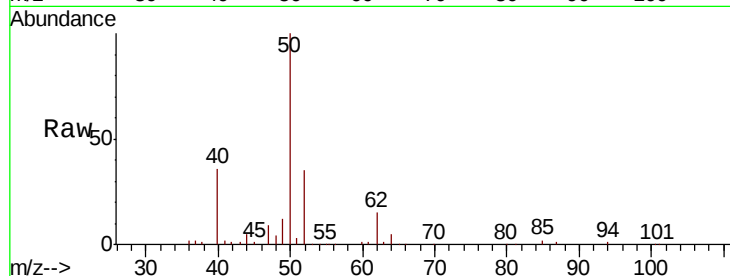
ClientSampled :

Tot Ion: 50 Resp: 188387

Ion Ratio Lower Upper

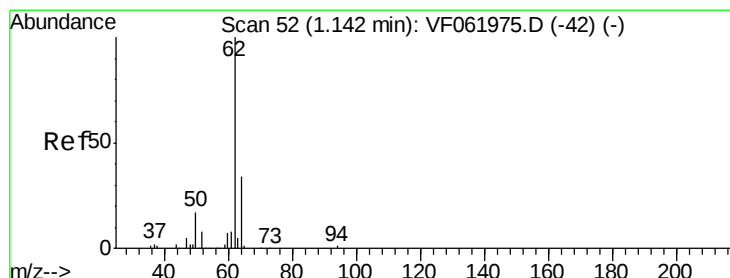
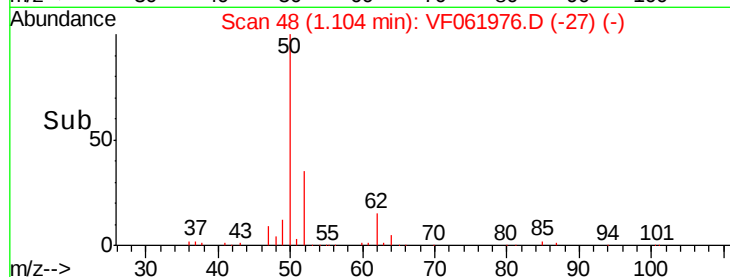
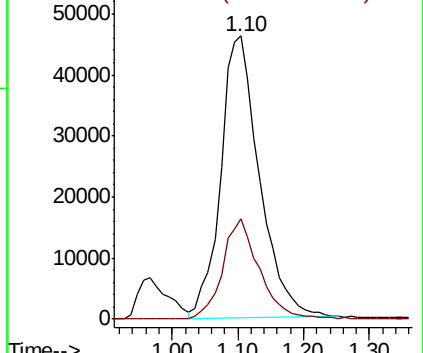
50 100

52 35.4 22.6 34.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 67.583 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061976.D

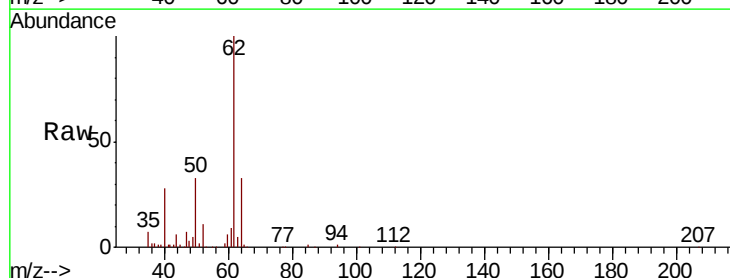
Acq: 16 Mar 2019 13:22

Tgt Ion: 62 Resp: 185644

Ion Ratio Lower Upper

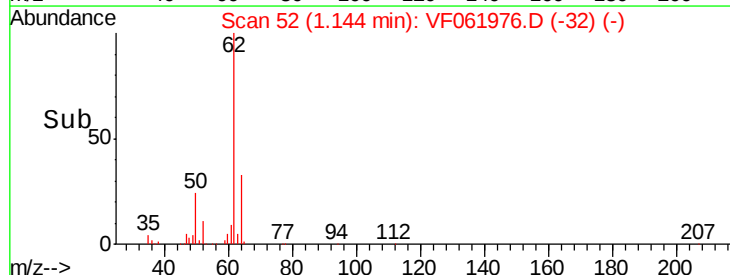
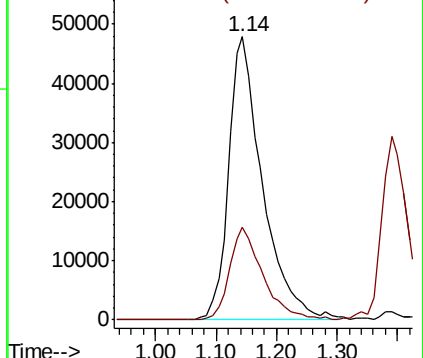
62 100

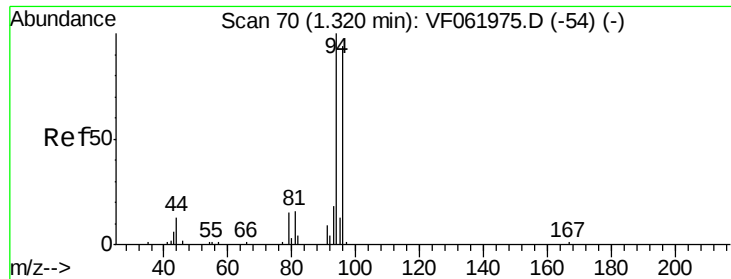
64 32.9 27.4 41.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 62.683 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

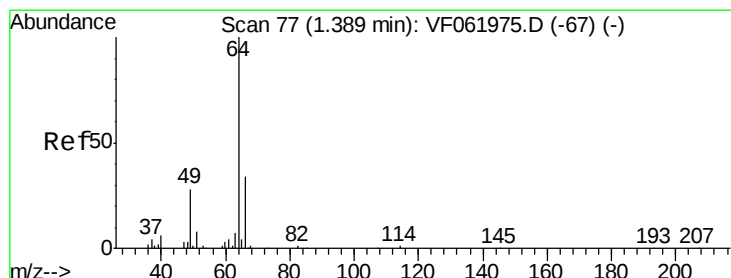
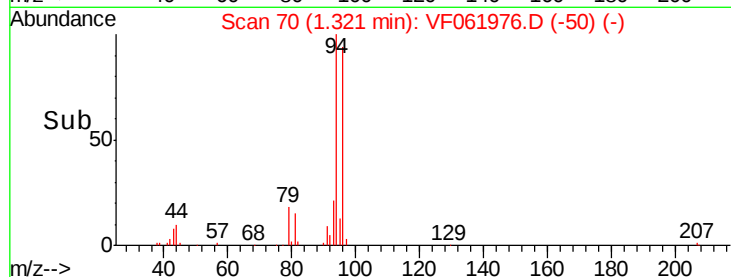
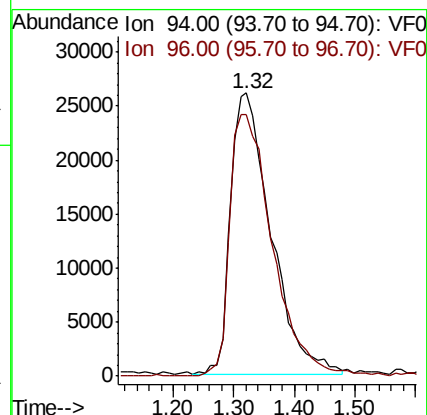
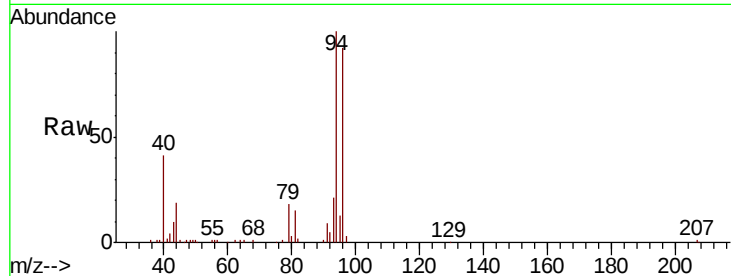
ClientSampleId :

Tot Ion: 94 Resp: 120958

Ion Ratio Lower Upper

94 100

96 92.5 75.0 112.6



#6

Chloroethane

Concen: 67.044 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.00 min

Lab File: VF061976.D

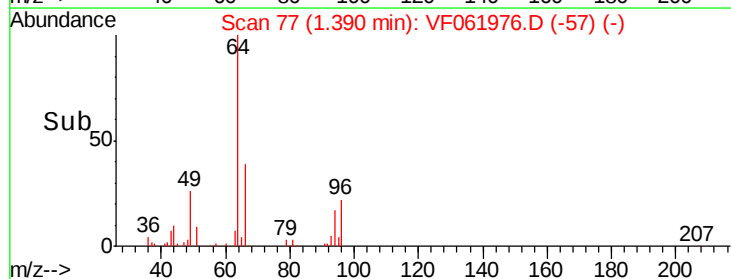
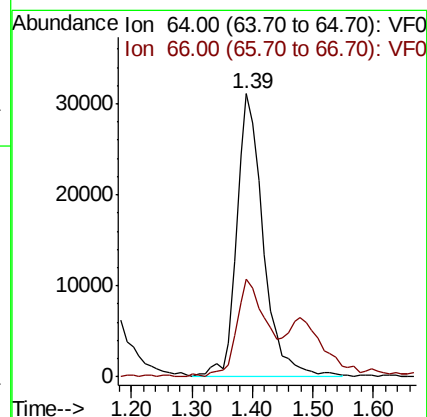
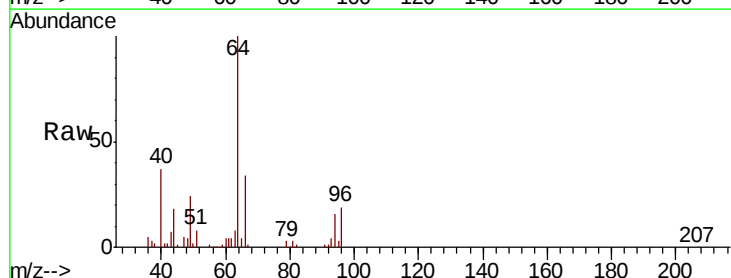
Acq: 16 Mar 2019 13:22

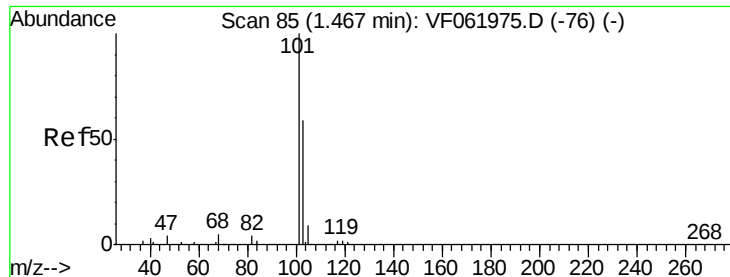
Tgt Ion: 64 Resp: 95072

Ion Ratio Lower Upper

64 100

66 34.4 27.6 41.4





#7

Trichlorofluoromethane

Concen: 67.144 ug/l

RT: 1.48 min Scan# 86

Delta R.T. 0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

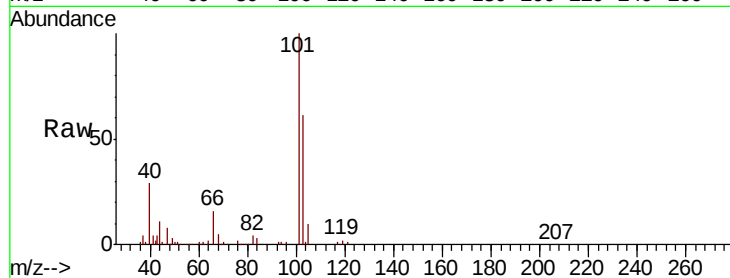
ClientSampleId :

Tot Ion:101 Resp: 244350

Ion Ratio Lower Upper

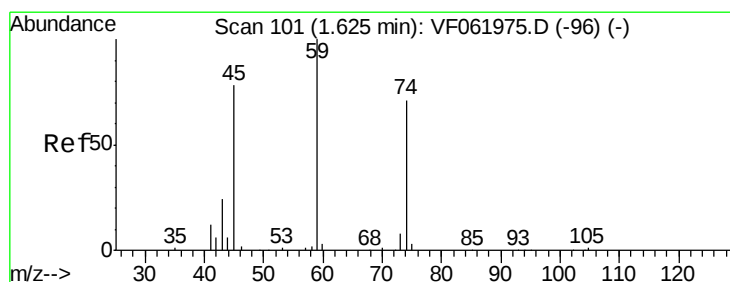
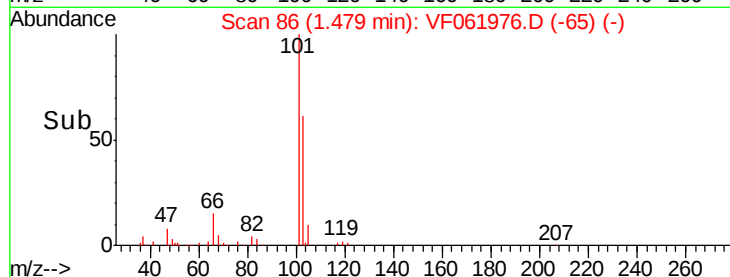
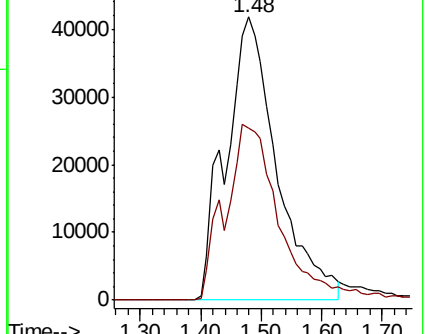
101 100

103 60.9 47.3 70.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 66.608 ug/l

RT: 1.63 min Scan# 101

Delta R.T. 0.00 min

Lab File: VF061976.D

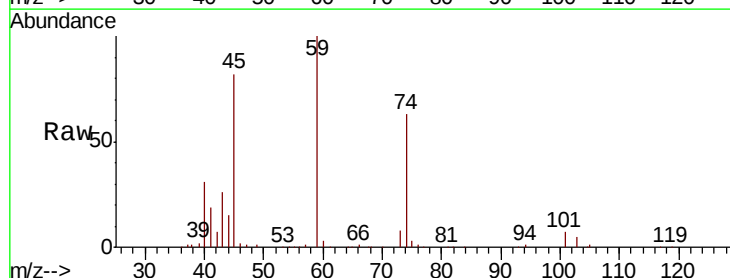
Acq: 16 Mar 2019 13:22

Tgt Ion: 74 Resp: 53887

Ion Ratio Lower Upper

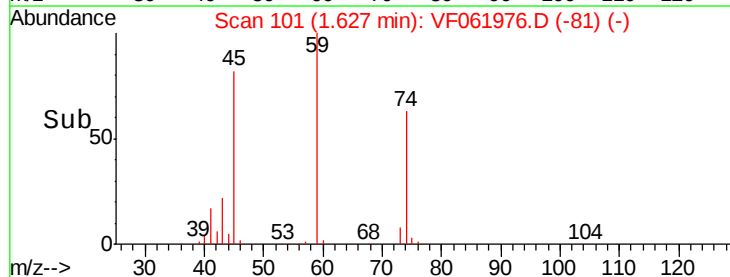
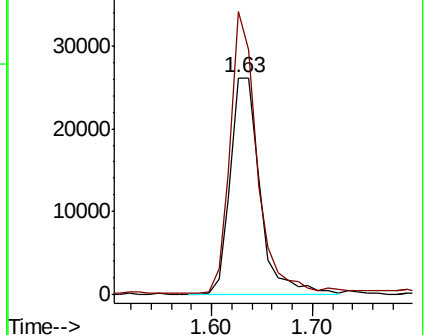
74 100

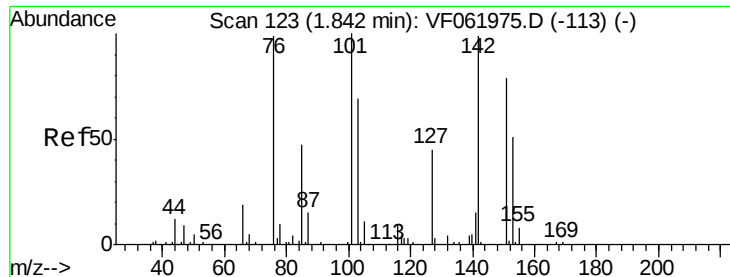
45 130.2 56.3 168.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 64.028 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

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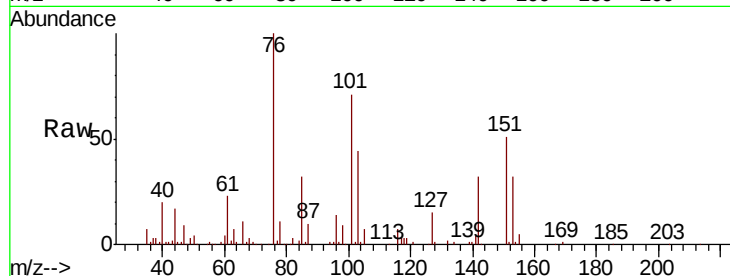
Tot Ion:101 Resp: 164169

Ion Ratio Lower Upper

101 100

85 44.6 36.8 55.2

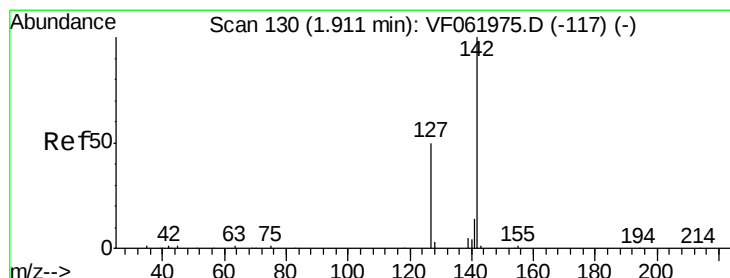
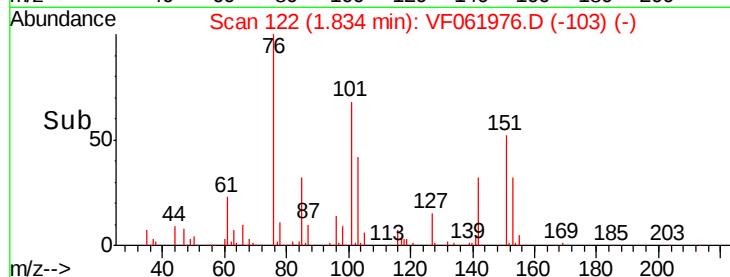
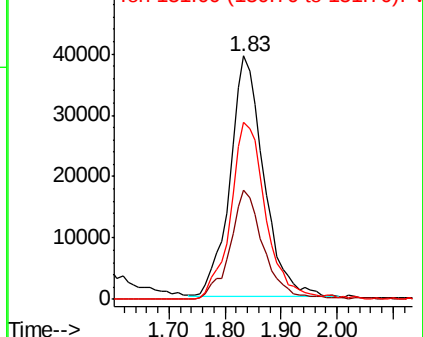
151 72.5 62.2 93.2



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: 52.910 ug/l

RT: 1.91 min Scan# 130

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

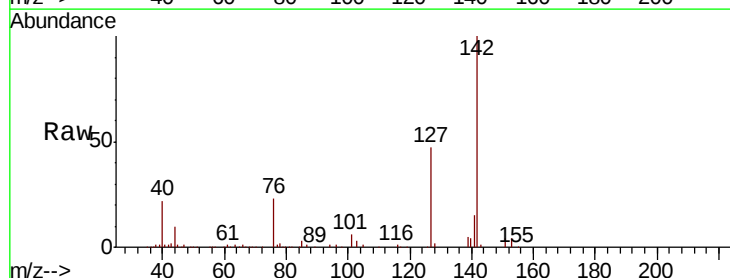
Tgt Ion:142 Resp: 237442

Ion Ratio Lower Upper

142 100

127 46.8 39.7 59.5

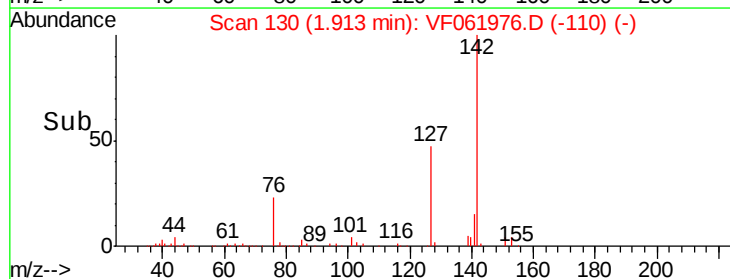
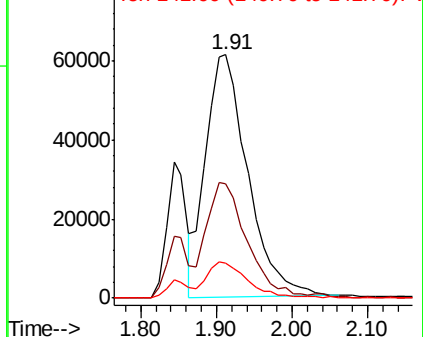
141 14.5 10.8 16.2

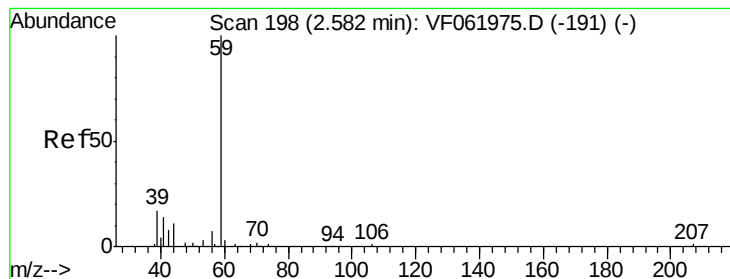


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



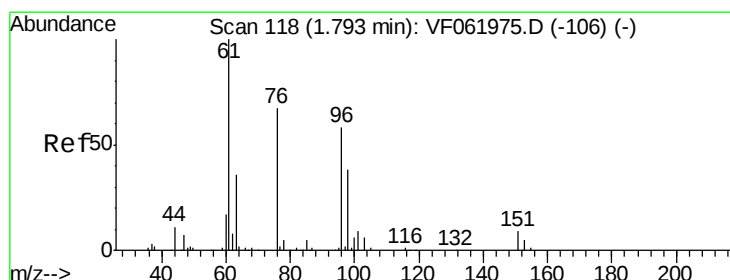
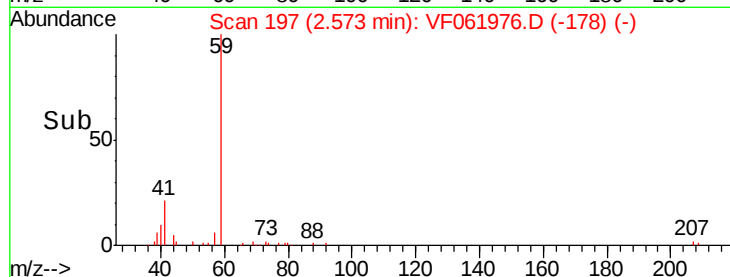
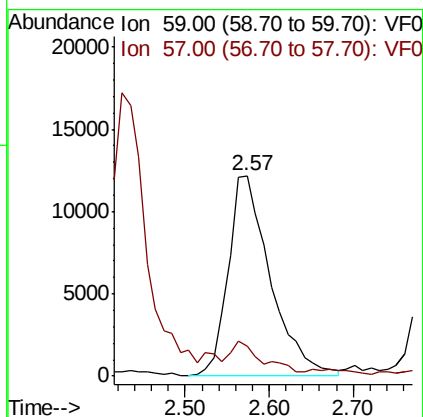
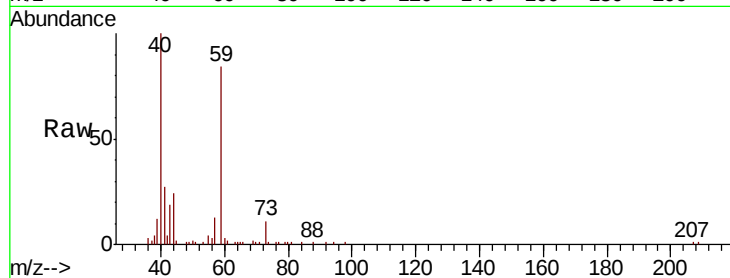


#11

Tert butyl alcohol
Concen: 369.741 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :

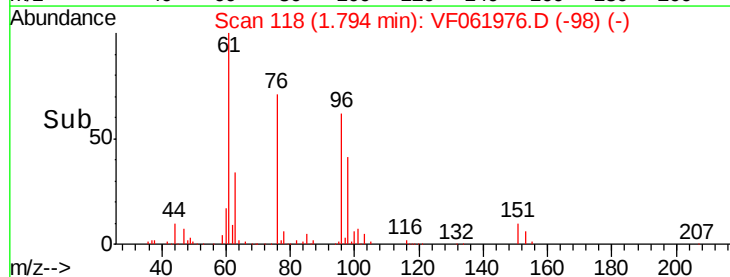
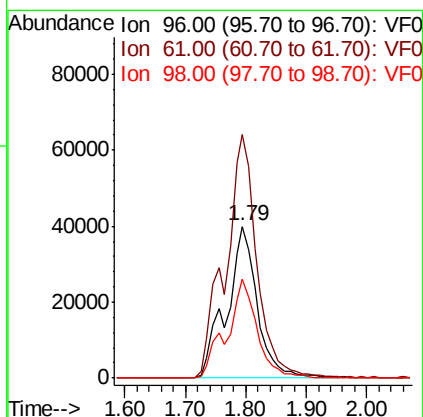
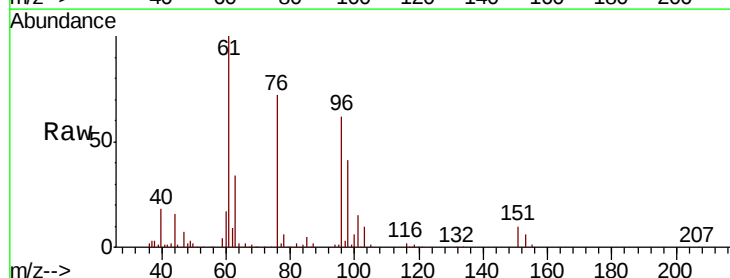
Tot Ion: 59 Resp: 42698
Ion Ratio Lower Upper
59 100
57 15.1 8.7 13.1#

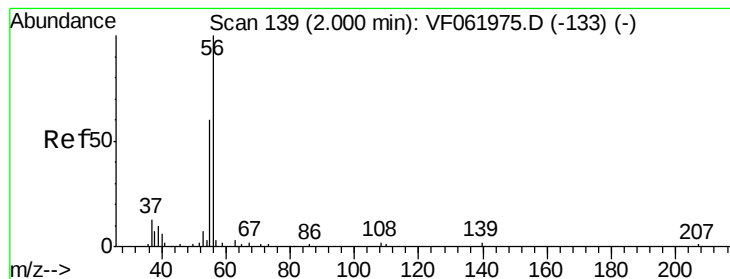


#12

1,1-Dichloroethene
Concen: 62.725 ug/l
RT: 1.79 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion: 96 Resp: 138794
Ion Ratio Lower Upper
96 100
61 160.1 138.6 208.0
98 65.5 53.2 79.8





#13

Acrolein

Concen: 297.582 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

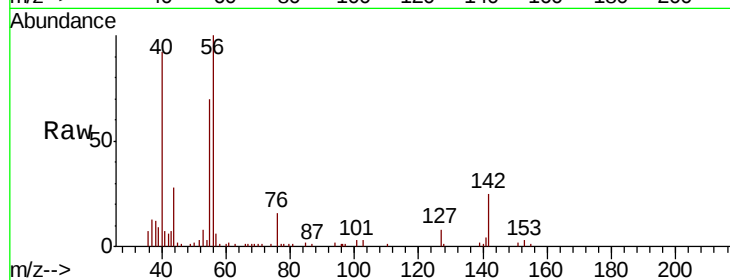
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 37098

Ion Ratio Lower Upper

56 100

55 70.5 49.1 73.7



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.00

15000

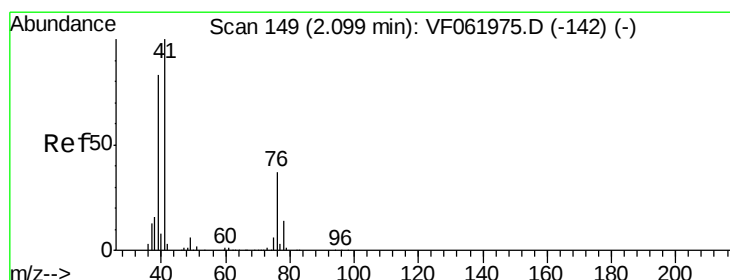
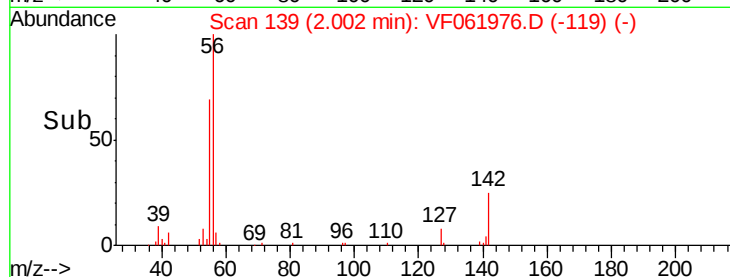
10000

5000

0

Time-->

1.90 2.00 2.10



#14

Allyl chloride

Concen: 68.611 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

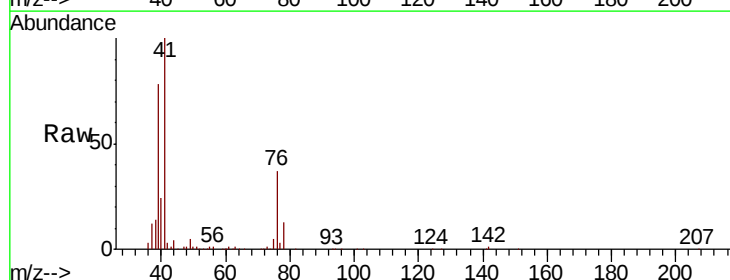
Tgt Ion: 41 Resp: 193795

Ion Ratio Lower Upper

41 100

39 78.5 66.8 100.2

76 37.4 31.1 46.7



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

120000

100000

80000

60000

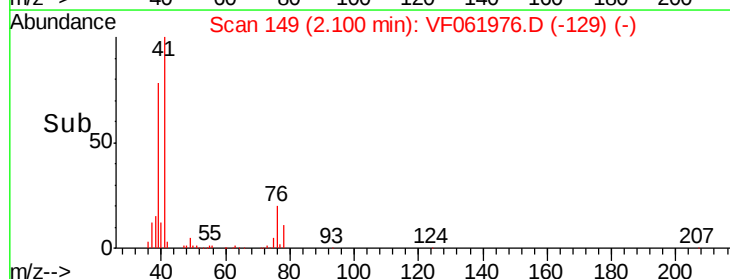
40000

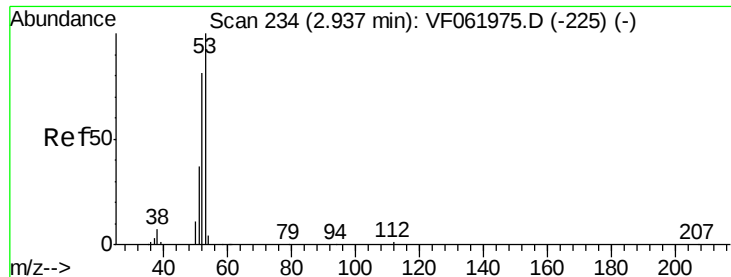
20000

0

Time-->

2.00 2.05 2.10 2.15 2.20





#15

Acrylonitrile

Concen: 358.930 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :

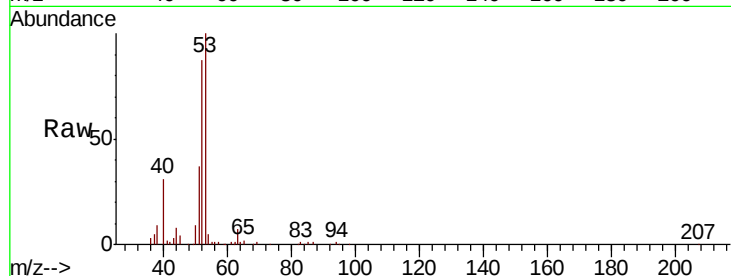
Tot Ion: 53 Resp: 126046

Ion Ratio Lower Upper

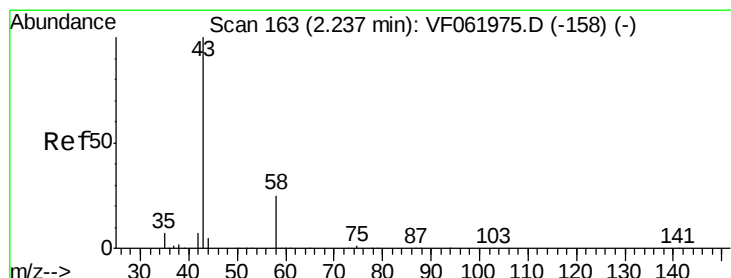
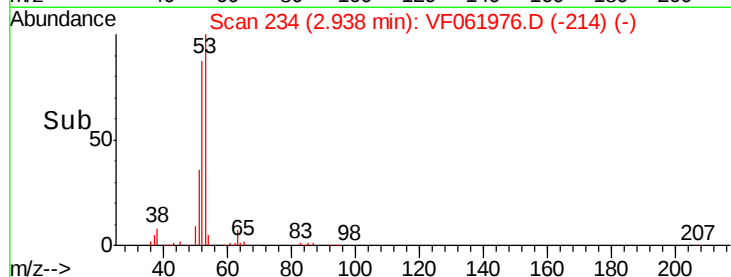
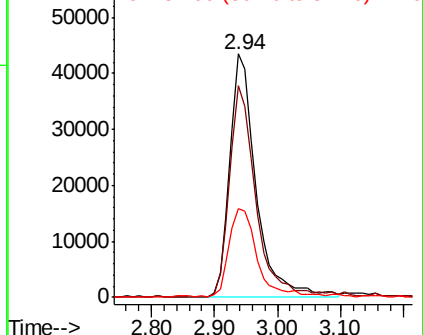
53 100

52 86.7 64.4 96.6

51 36.5 30.3 45.5



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



#16

Acetone

Concen: 397.830 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061976.D

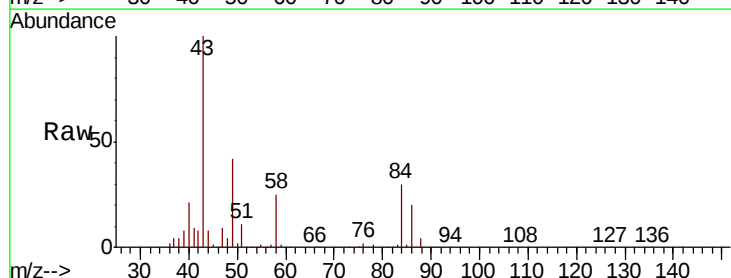
Acq: 16 Mar 2019 13:22

Tgt Ion: 43 Resp: 168594

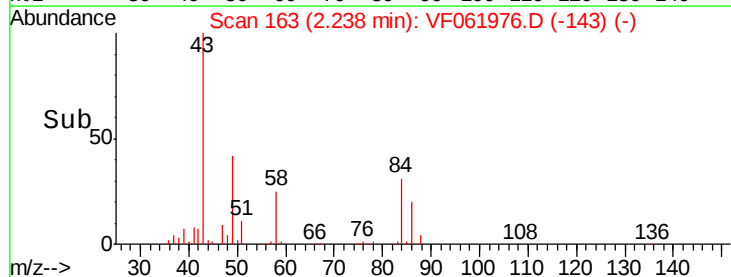
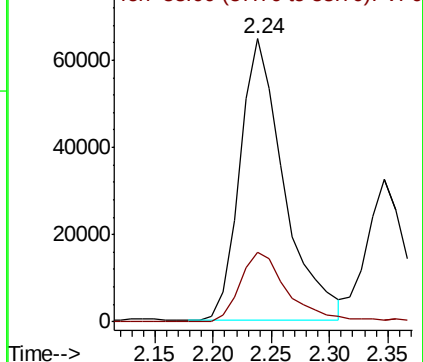
Ion Ratio Lower Upper

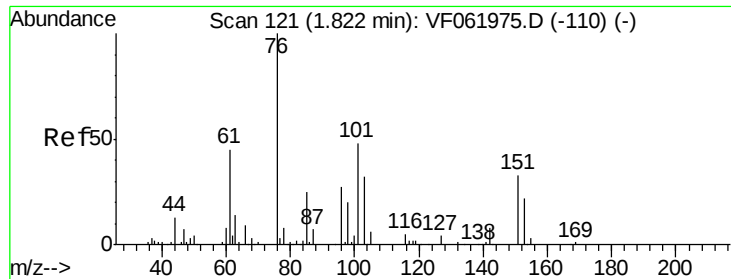
43 100

58 24.7 19.9 29.9



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

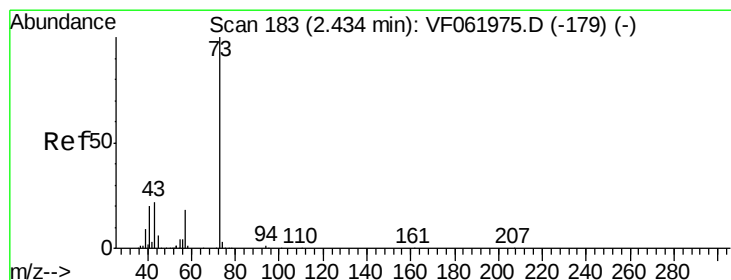
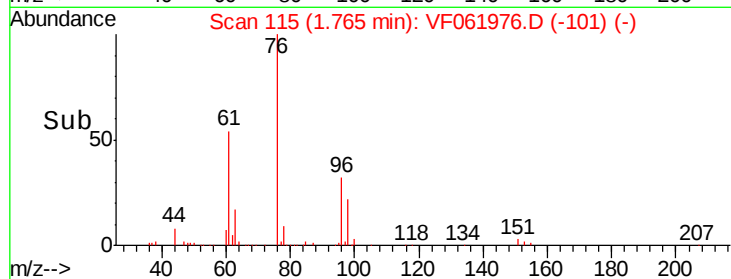
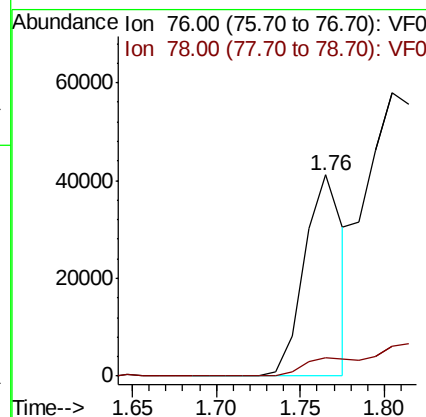
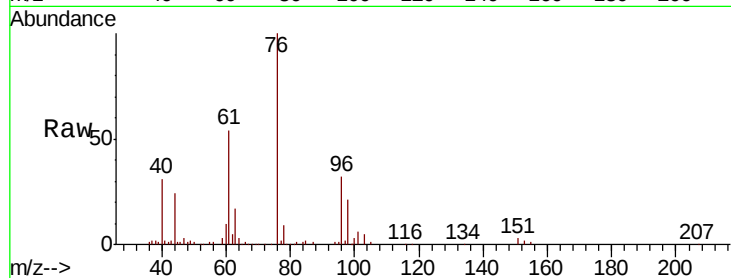




#17
Carbon Disulfide
Concen: 10.284 ug/l
RT: 1.76 min Scan# 115
Delta R.T. -0.06 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

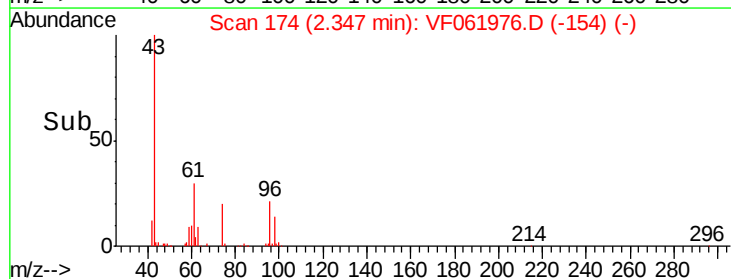
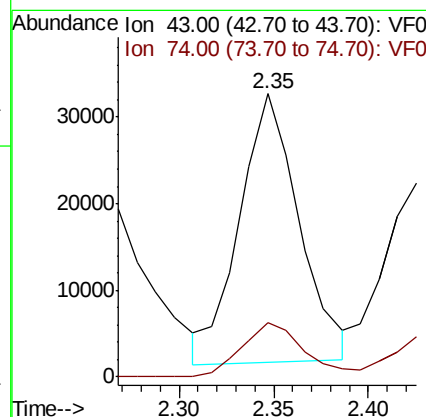
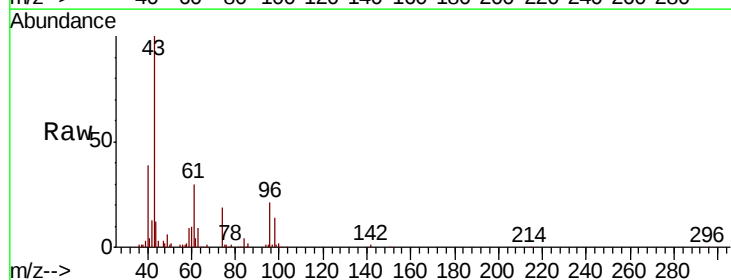
Instrument :
MSVOA_F
ClientSampleId :

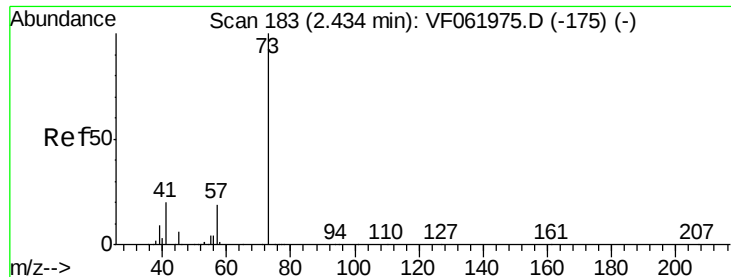
Tot Ion: 76 Resp: 65812
Ion Ratio Lower Upper
76 100
78 9.3 6.8 10.2



#18
Methyl Acetate
Concen: 75.446 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion: 43 Resp: 67915
Ion Ratio Lower Upper
43 100
74 19.3 18.3 27.5



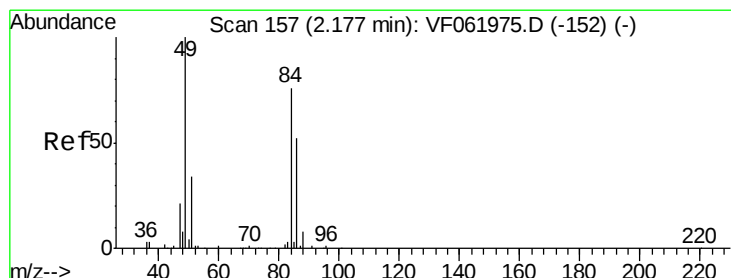
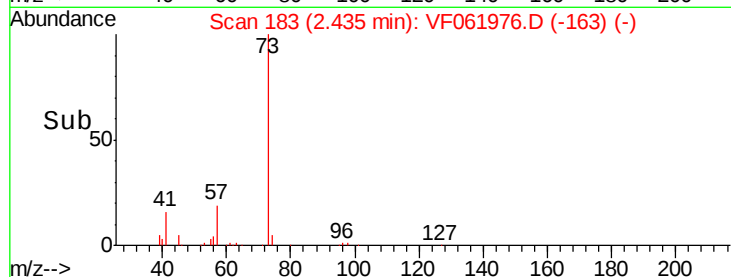
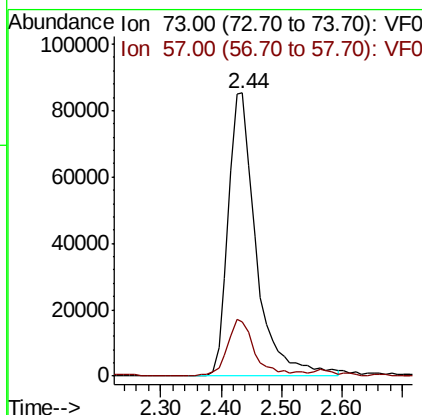
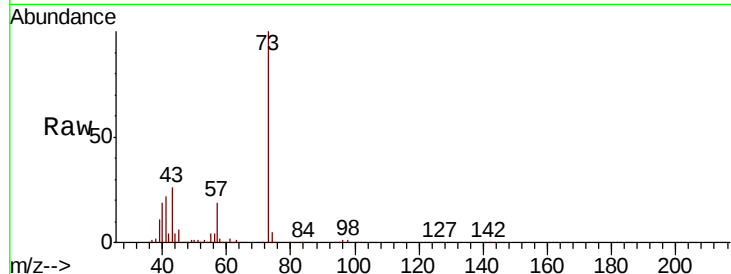


#19

Methyl tert-butyl Ether
 Concen: 68.677 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. 0.00 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :

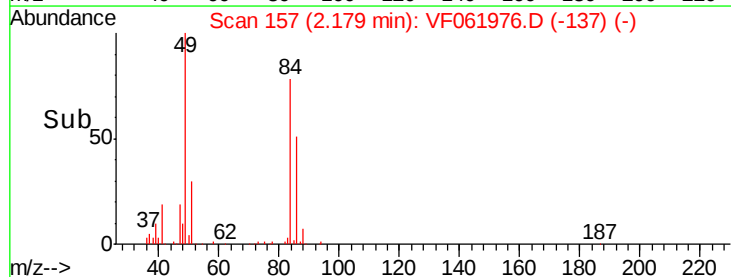
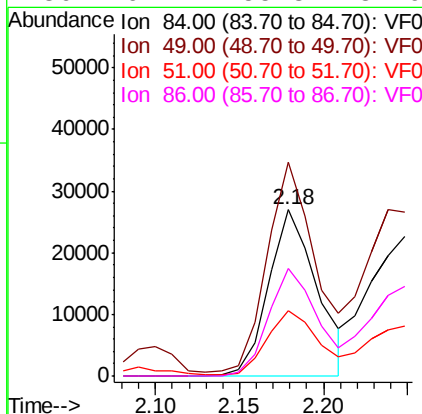
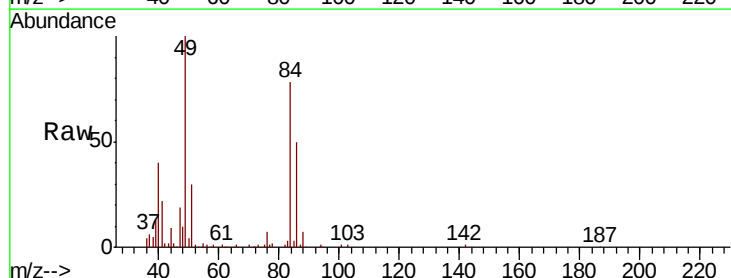
Tot Ion: 73 Resp: 275364
 Ion Ratio Lower Upper
 73 100
 57 19.3 15.3 22.9

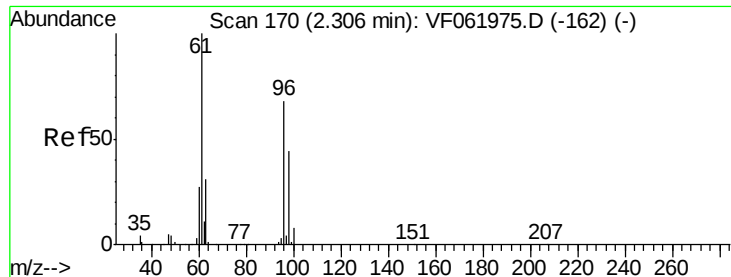


#20

Methylene Chloride
 Concen: 24.719 ug/l
 RT: 2.18 min Scan# 157
 Delta R.T. 0.00 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Tgt Ion: 84 Resp: 53932
 Ion Ratio Lower Upper
 84 100
 49 128.6 107.0 160.6
 51 39.0 37.2 55.8
 86 64.7 55.3 82.9





#21

trans-1,2-Dichloroethene

Concen: 64.258 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :

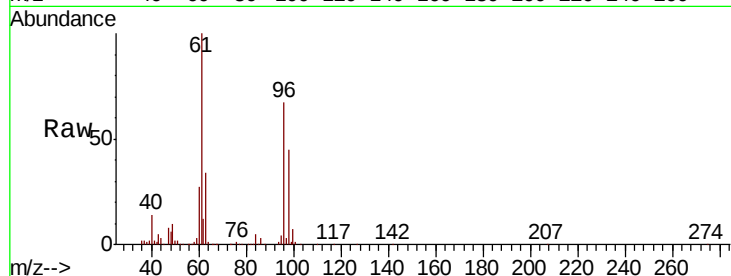
Tot Ion: 96 Resp: 148381

Ion Ratio Lower Upper

96 100

61 148.2 117.4 176.2

98 66.3 51.2 76.8

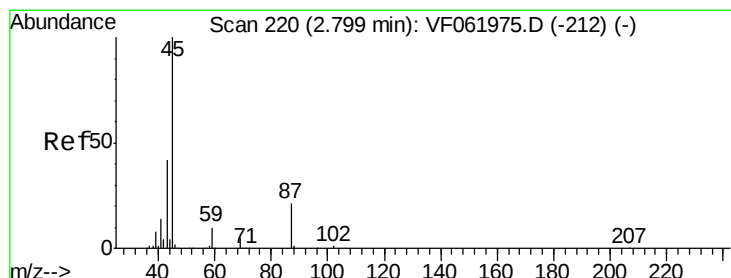
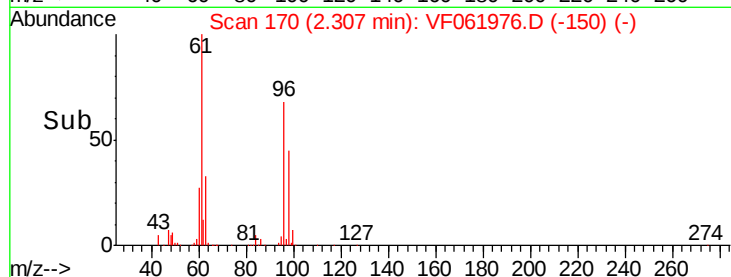
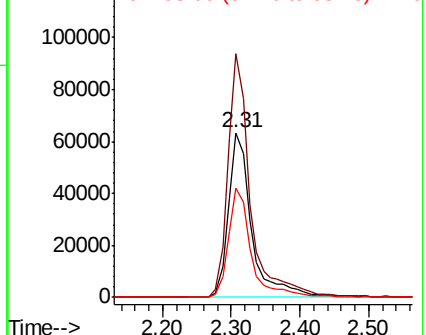


Abundance

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: 65.932 ug/l

RT: 2.80 min Scan# 220

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Tgt Ion: 45 Resp: 447945

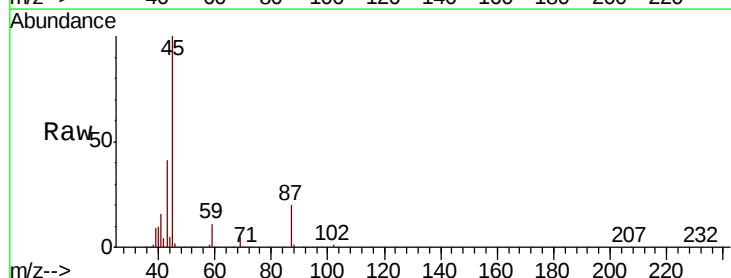
Ion Ratio Lower Upper

45 100

43 40.6 33.7 50.5

87 19.9 17.1 25.7

59 10.6 8.0 12.0



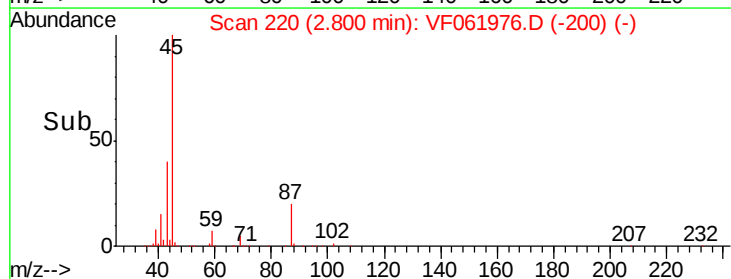
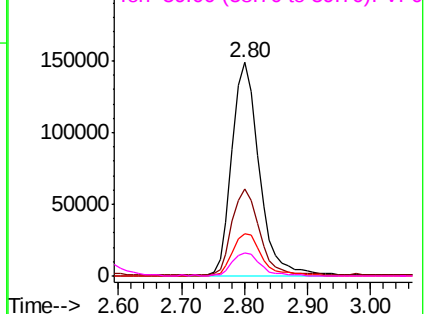
Abundance

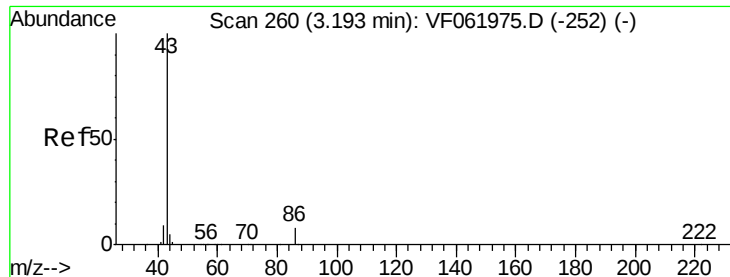
Ion 45.00 (44.70 to 45.70): VF0

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: 365.074 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

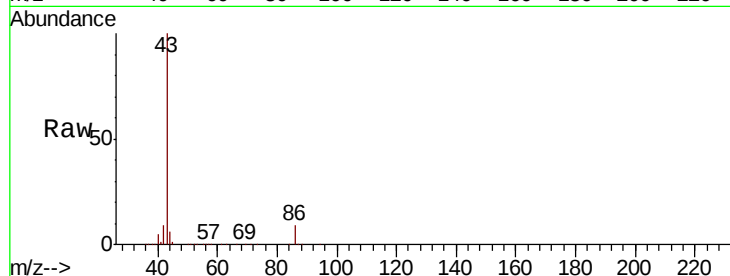
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 977766

Ion Ratio Lower Upper

43 100

86 8.9 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

400000

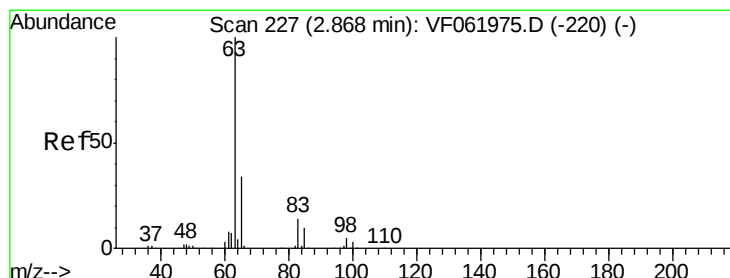
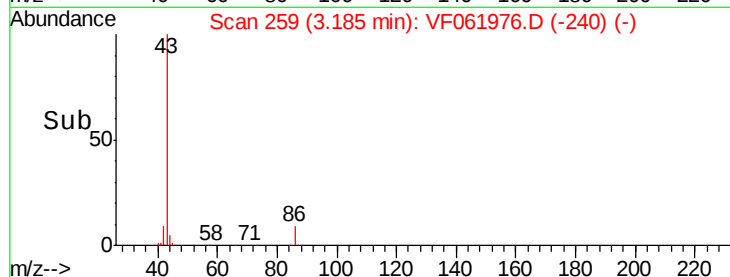
300000

200000

100000

0

Time--> 3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 66.923 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

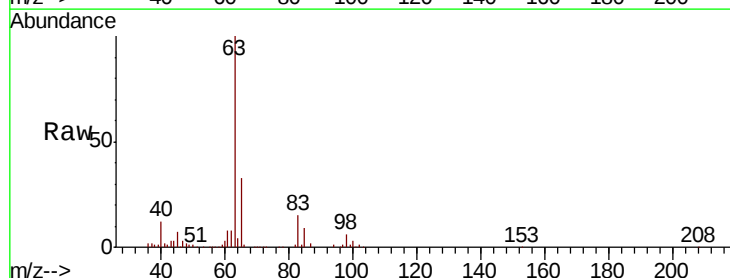
Tgt Ion: 63 Resp: 264376

Ion Ratio Lower Upper

63 100

98 5.5 2.7 8.1

100 3.3 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

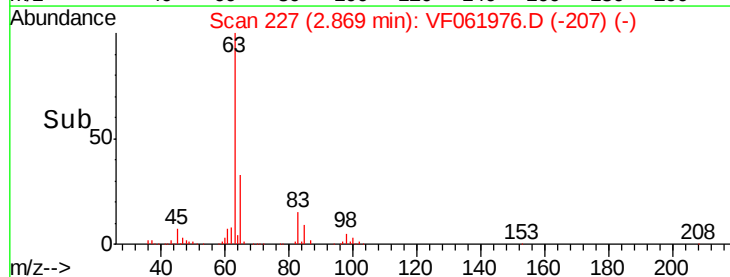
2.87

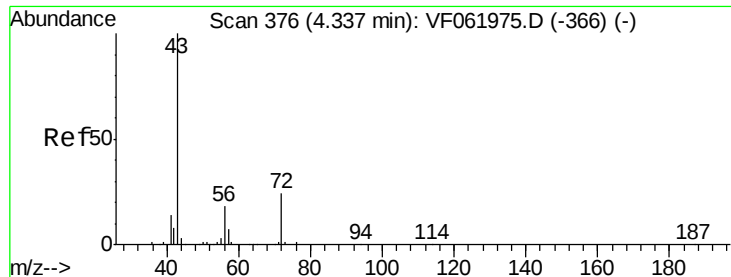
100000

50000

0

Time--> 2.70 2.80 2.90 3.00

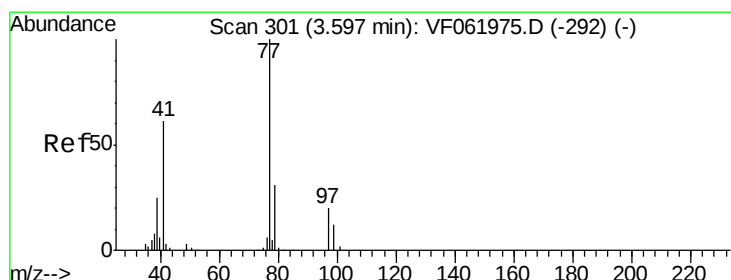
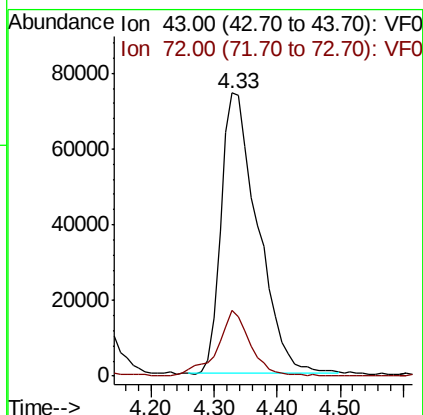
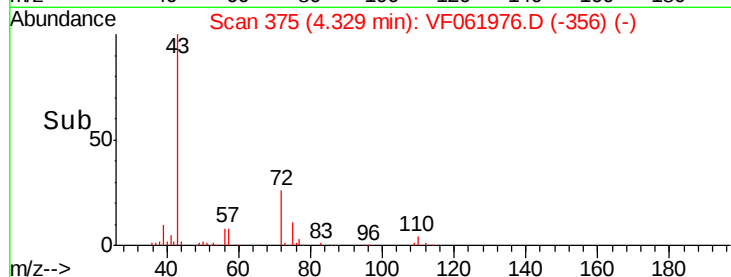
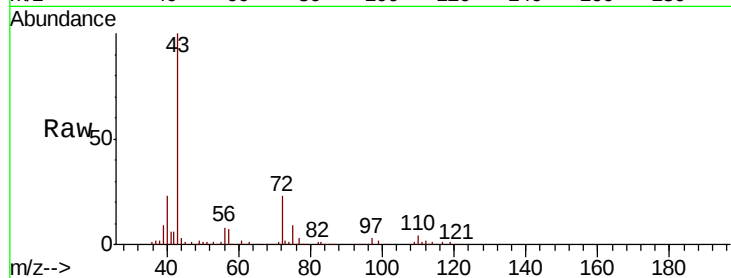




#25
2-Butanone
Concen: 357.854 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.01 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

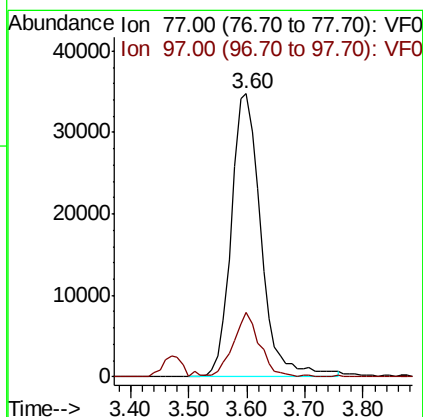
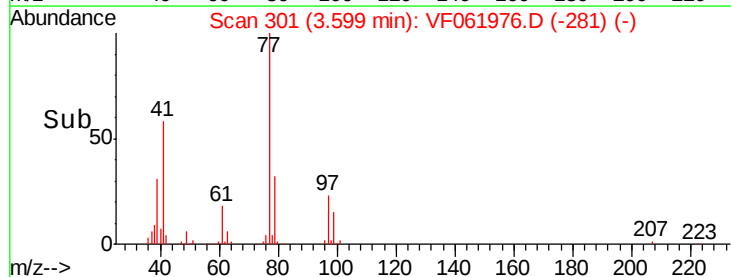
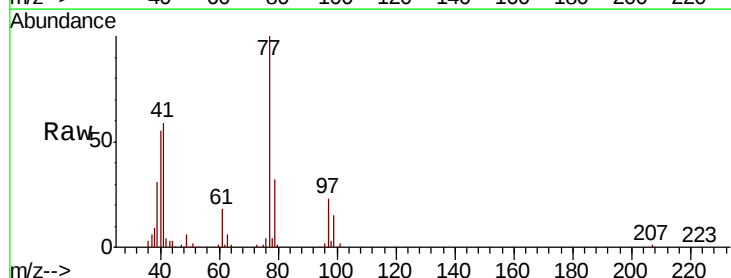
Instrument :
MSVOA_F
ClientSampleId :

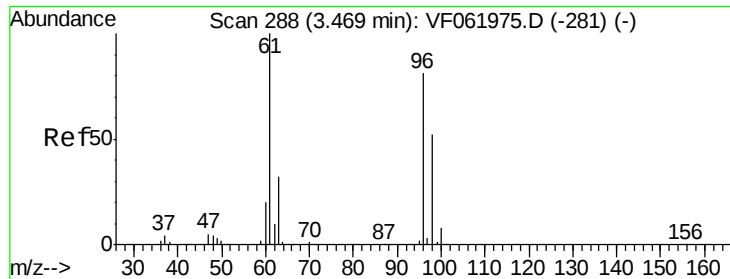
Tot Ion: 43 Resp: 300343
Ion Ratio Lower Upper
43 100
72 23.3 19.8 29.6



#26
2,2-Dichloropropane
Concen: 66.410 ug/l
RT: 3.60 min Scan# 301
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion: 77 Resp: 123747
Ion Ratio Lower Upper
77 100
97 22.6 10.8 32.4



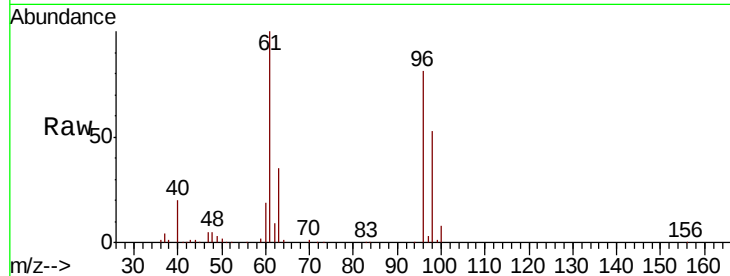


#27

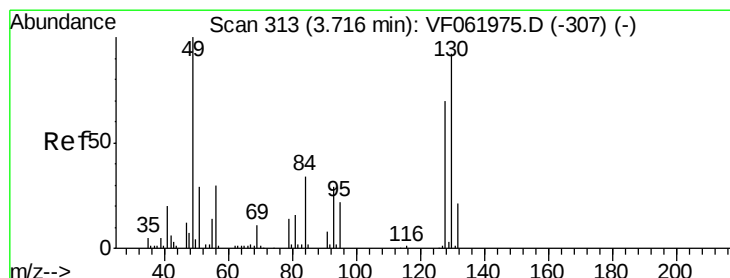
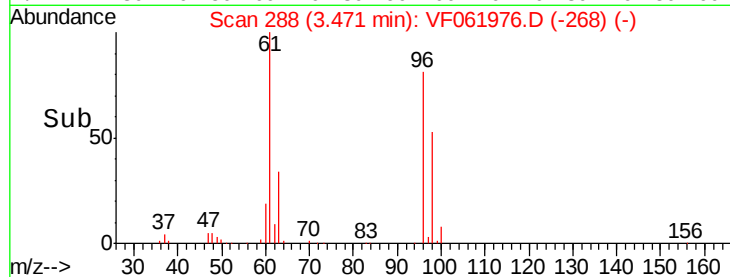
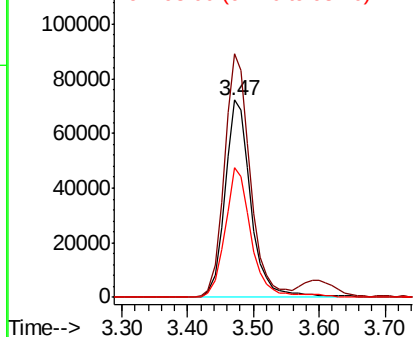
cis-1,2-Dichloroethene
Concen: 67.983 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 96 Resp: 197863
Ion Ratio Lower Upper
96 100
61 123.6 0.0 246.6
98 65.6 0.0 129.2



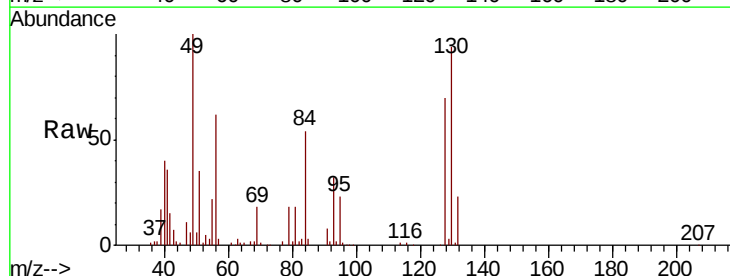
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



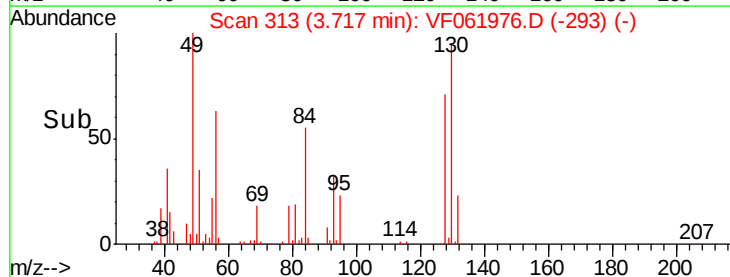
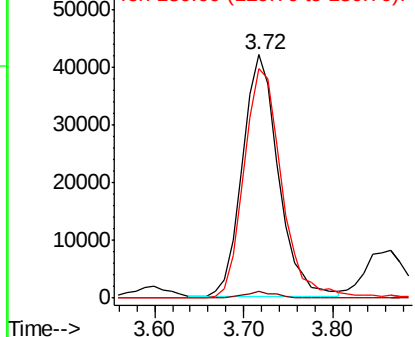
#28

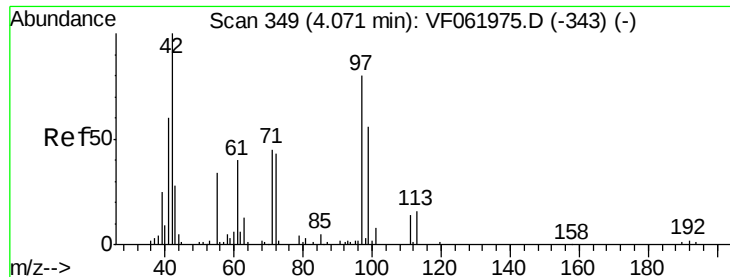
Bromochloromethane
Concen: 71.509 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion: 49 Resp: 117217
Ion Ratio Lower Upper
49 100
129 3.0 0.0 5.8
130 94.2 73.1 109.7



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V

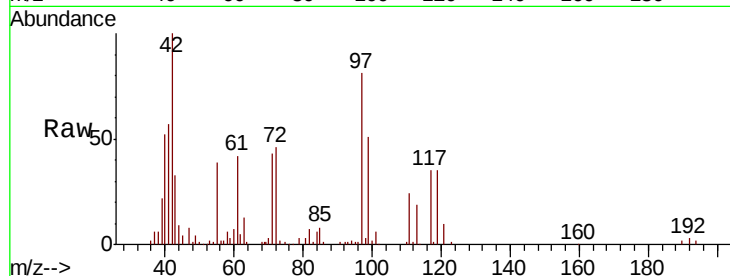




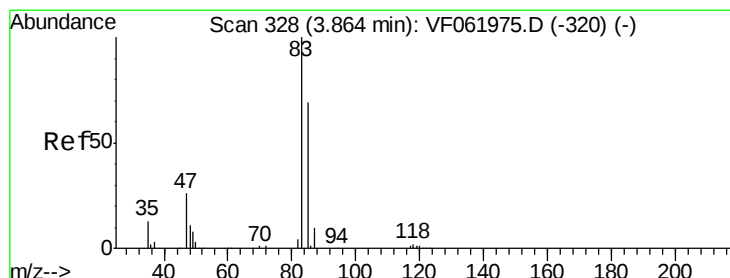
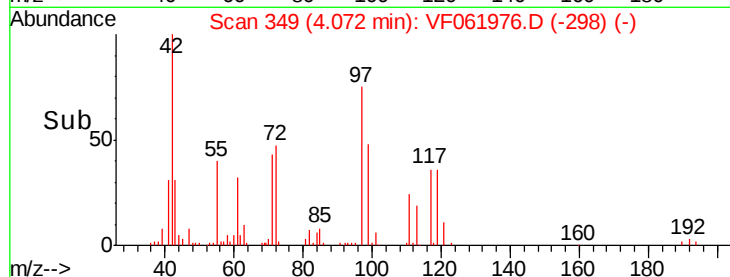
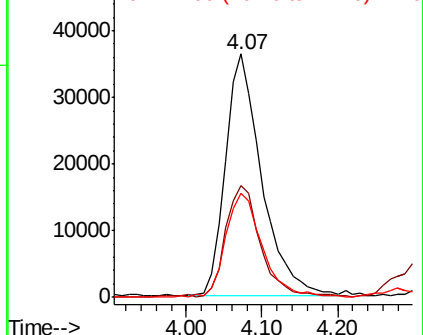
#29
Tetrahydrofuran
Concen: 331.110 ug/l
RT: 4.07 min Scan# 349
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	34.0	51.0
71	43.8	34.2	51.4

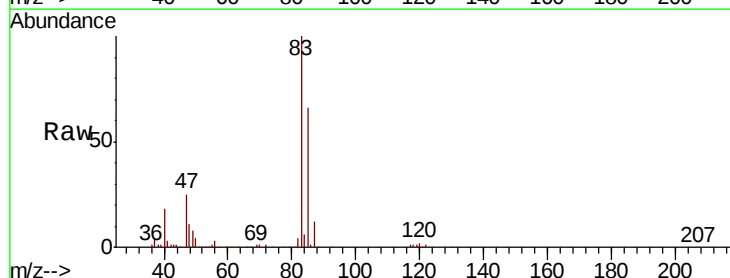


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

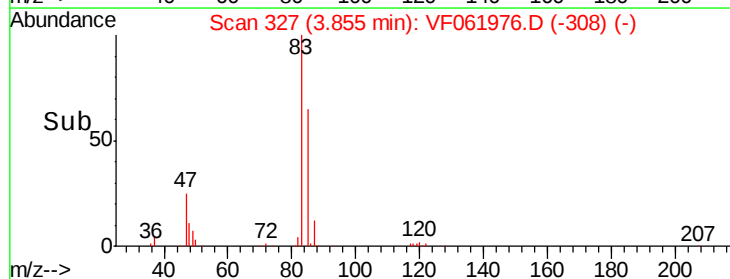
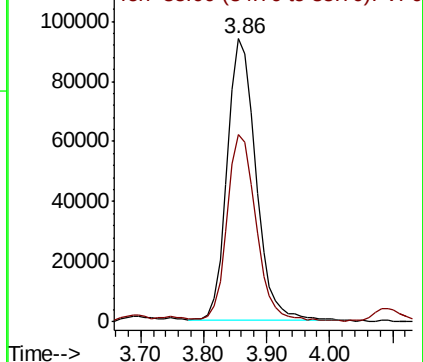


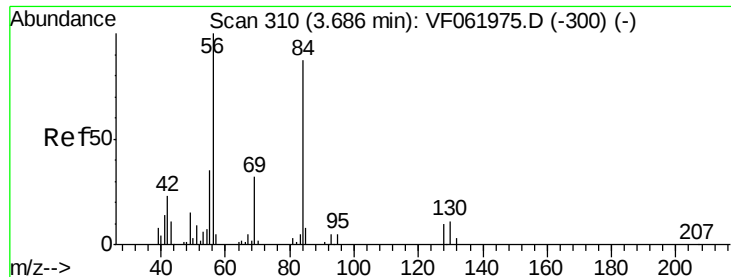
#30
Chloroform
Concen: 65.320 ug/l
RT: 3.86 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	55.5	83.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 39.488 ug/l

RT: 3.69 min Scan# 310

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampled :

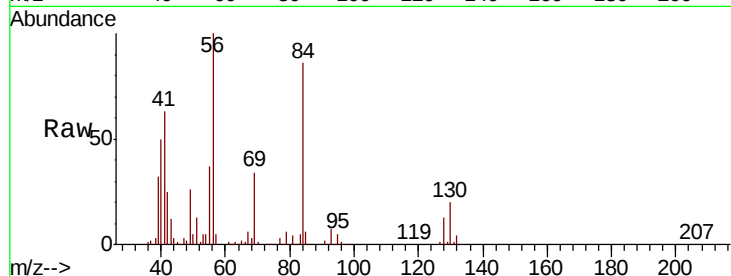
Tot Ion: 56 Resp: 152834

Ion Ratio Lower Upper

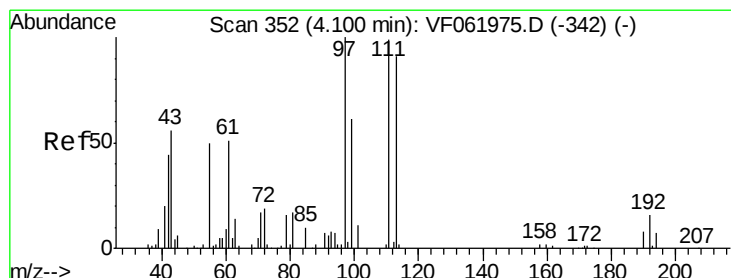
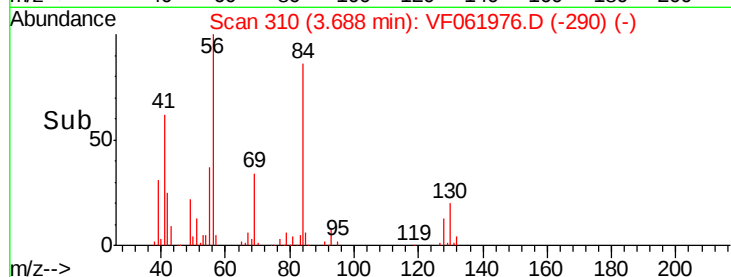
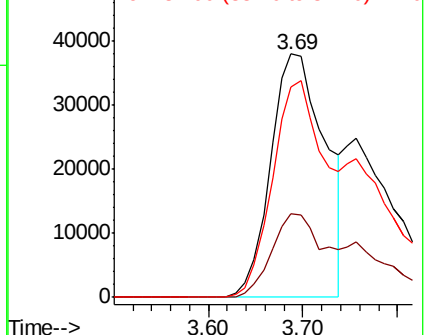
56 100

69 34.2 25.8 38.8

84 86.4 69.5 104.3



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



#32

1,1,1-Trichloroethane

Concen: 65.642 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

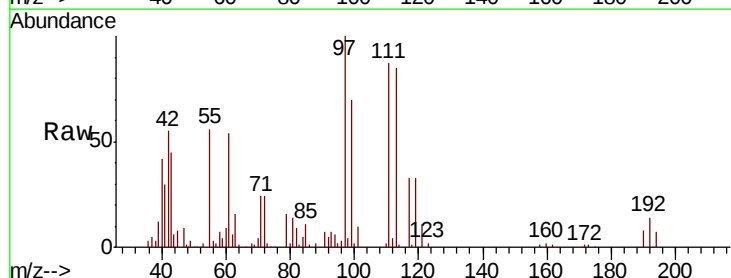
Tgt Ion: 97 Resp: 195124

Ion Ratio Lower Upper

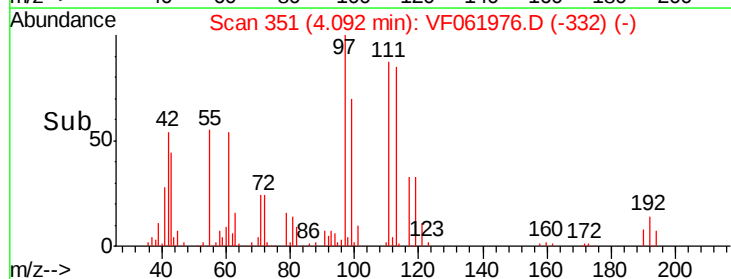
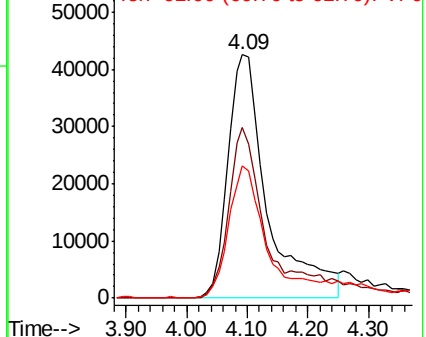
97 100

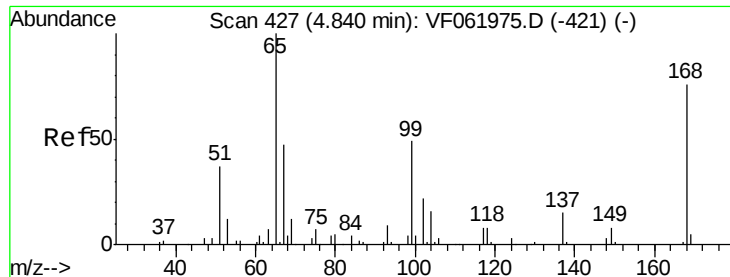
99 69.9 49.0 73.4

61 54.1 41.4 62.0



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





#33

1,2-Dichloroethane-d4

Concen: 77.817 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

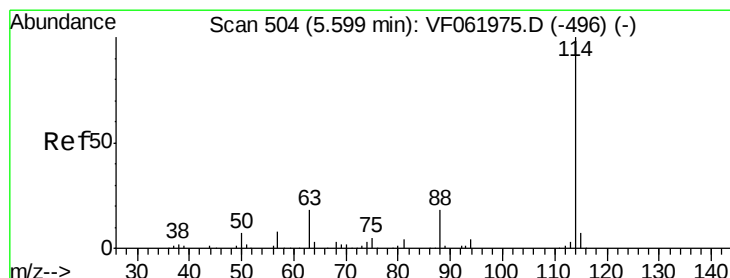
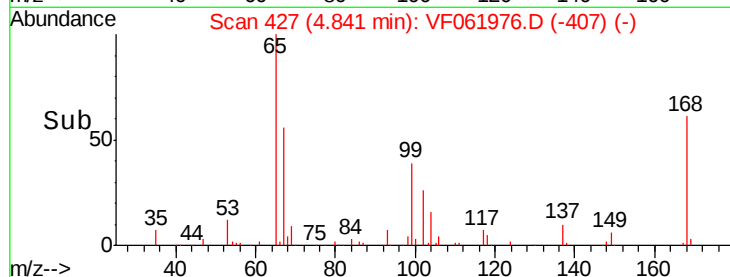
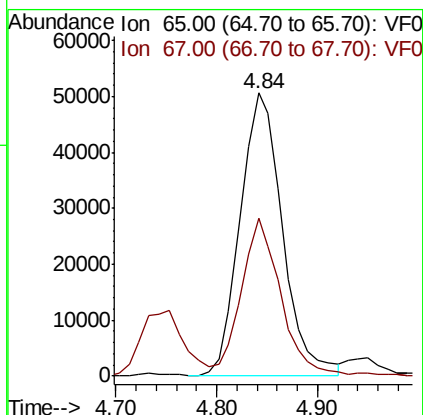
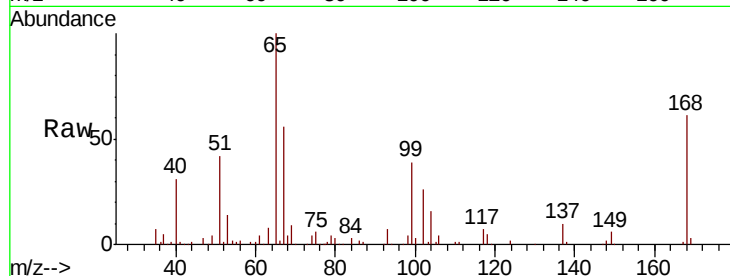
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 146859

Ion Ratio Lower Upper

65 100

67 55.7 0.0 109.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

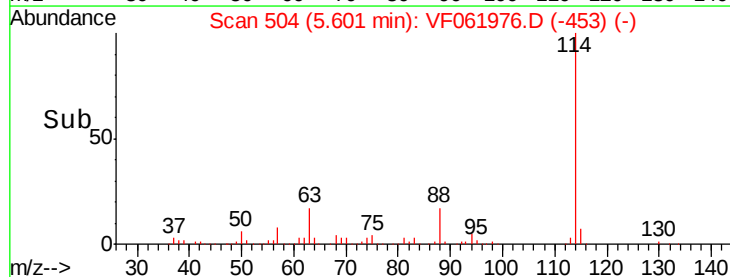
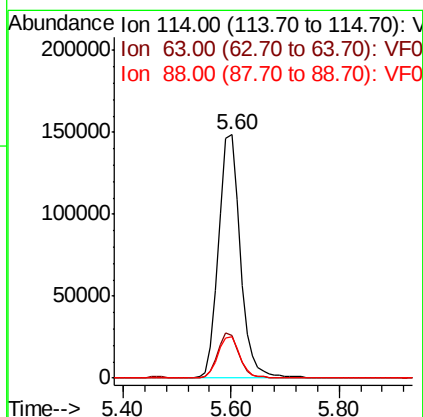
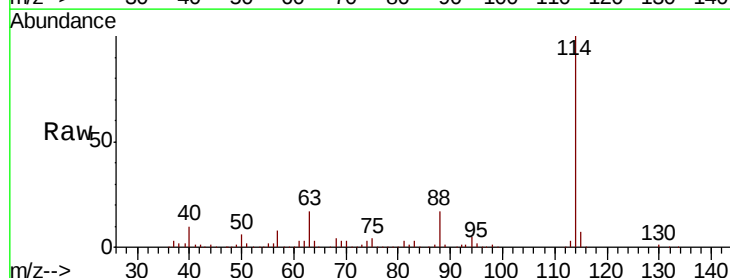
Tgt Ion: 114 Resp: 415330

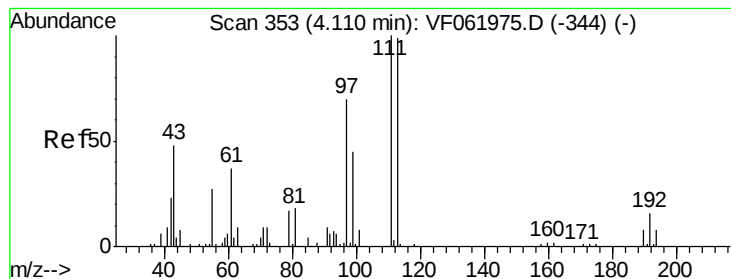
Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.4

88 17.0 0.0 36.4





#35

Dibromofluoromethane

Concen: 70.273 ug/l

RT: 4.11 min Scan# 353

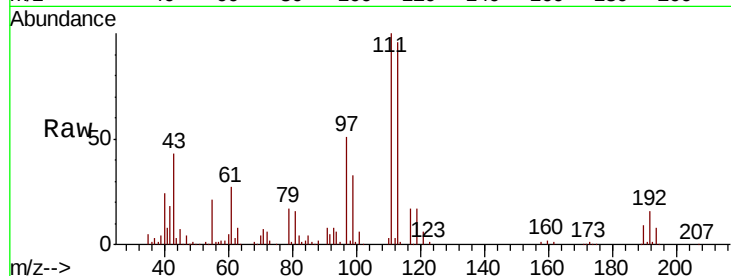
Delta R.T. 0.00 min

Lab File: VF061976.D

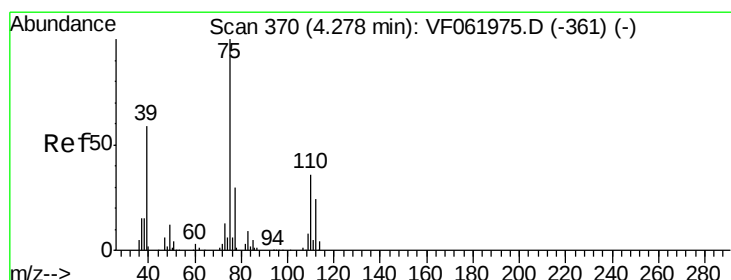
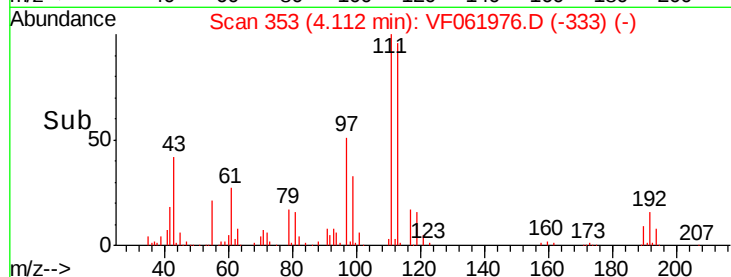
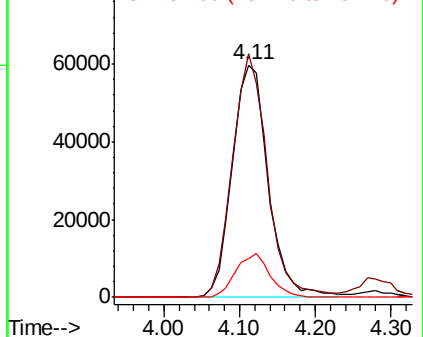
Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	113	Resp:	195993
Ion	Ratio	Lower	Upper
113	100		
111	104.6	80.8	121.2
192	17.2	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: 64.614 ug/l

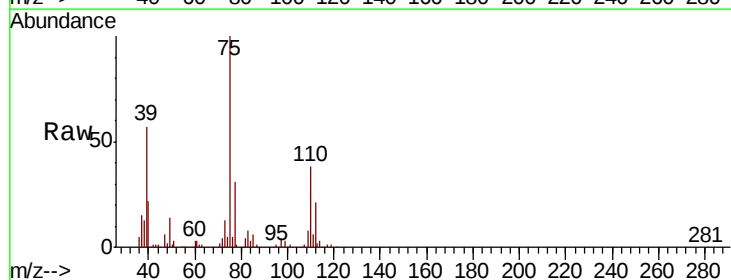
RT: 4.28 min Scan# 370

Delta R.T. 0.00 min

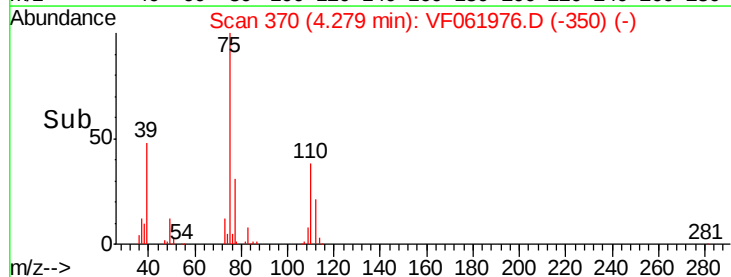
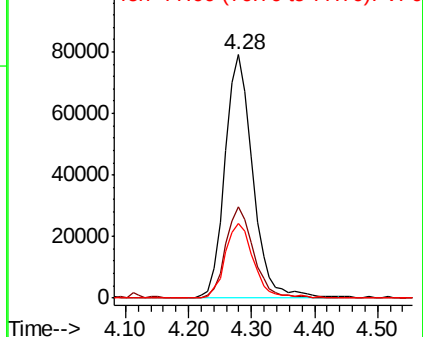
Lab File: VF061976.D

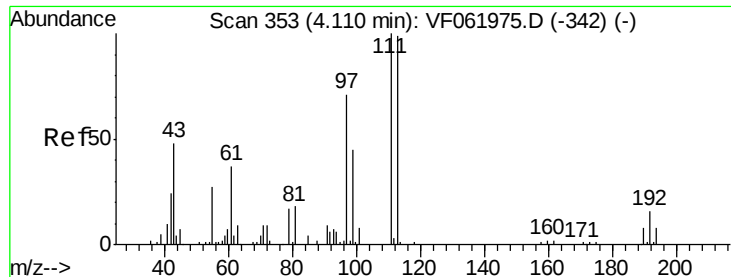
Acq: 16 Mar 2019 13:22

Tgt Ion:	75	Resp:	242344
Ion	Ratio	Lower	Upper
75	100		
110	37.6	17.8	53.3
77	30.7	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: 62.843 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :

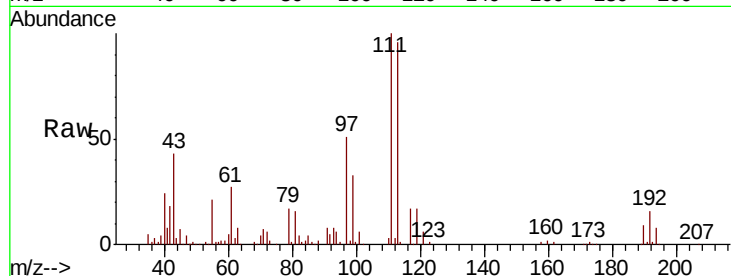
Tot Ion: 43 Resp: 105832

Ion Ratio Lower Upper

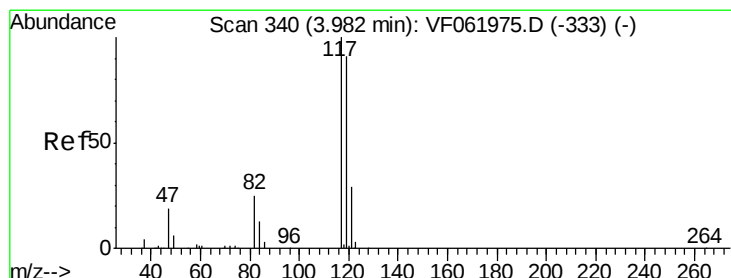
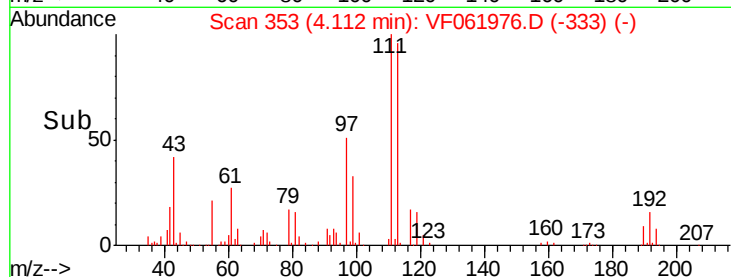
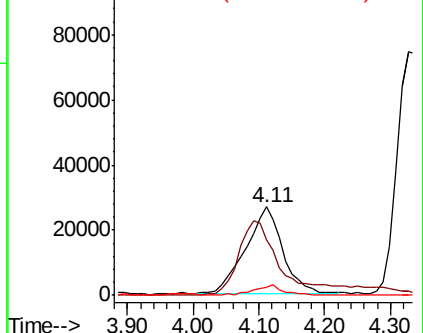
43 100

61 62.7 59.8 89.6

70 9.1 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: 64.910 ug/l

RT: 3.98 min Scan# 340

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

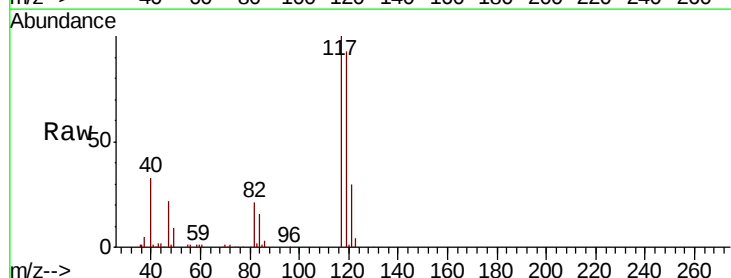
Tgt Ion: 117 Resp: 177923

Ion Ratio Lower Upper

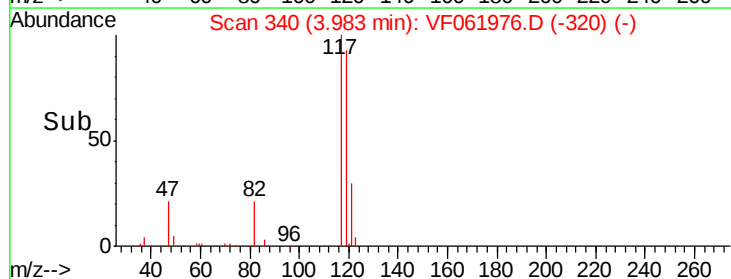
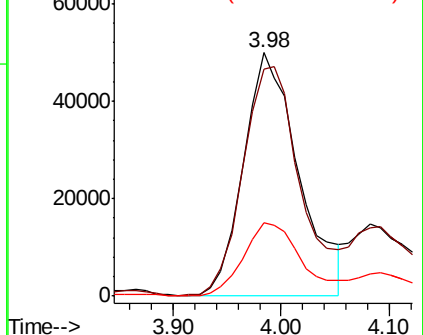
117 100

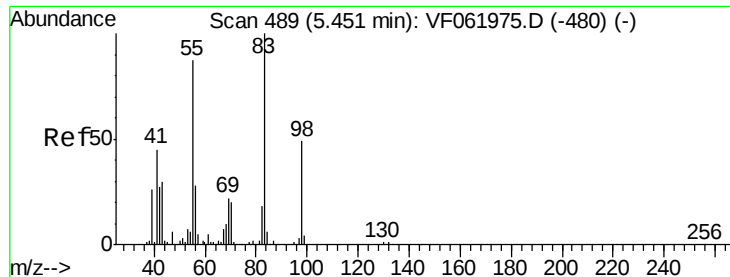
119 93.1 73.0 109.4

121 30.3 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

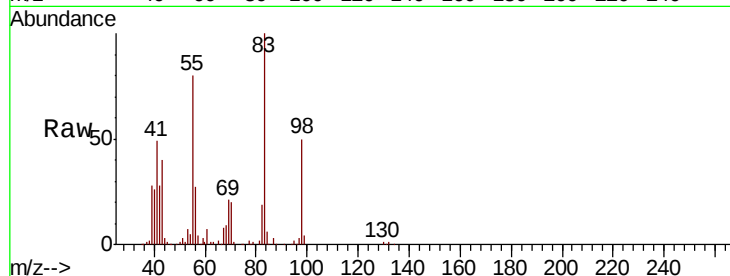




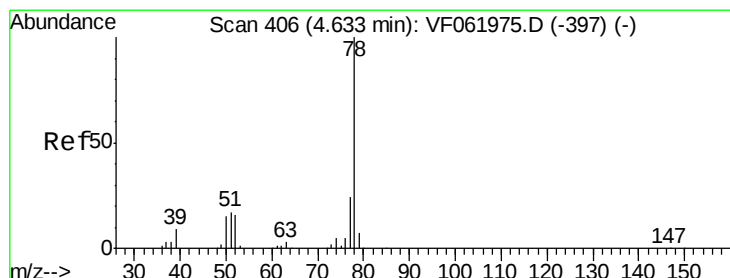
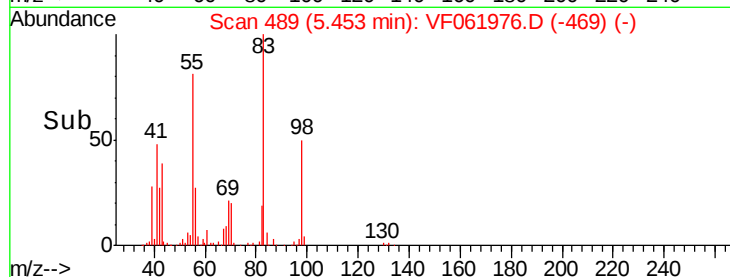
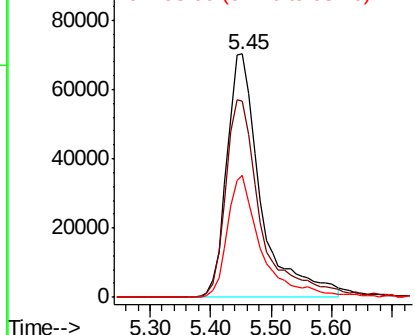
#39
Methvlcvclohexane
Concen: 62.376 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 83 Resp: 274652
Ion Ratio Lower Upper
83 100
55 80.3 69.7 104.5
98 50.1 39.4 59.0

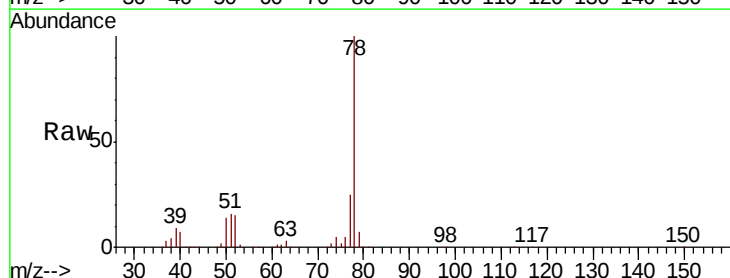


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

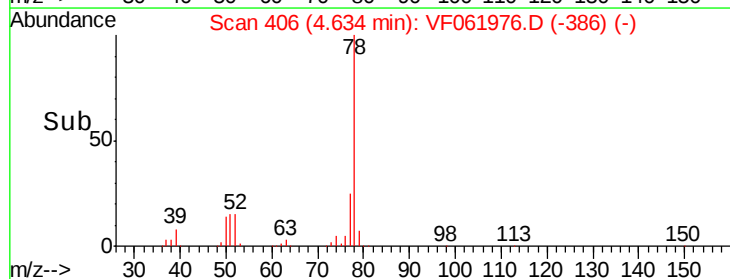
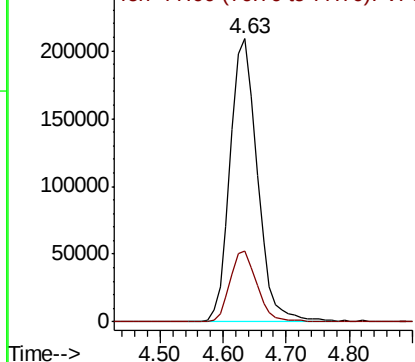


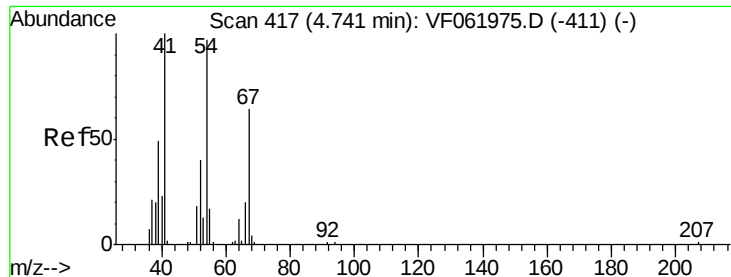
#40
Benzene
Concen: 63.007 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion: 78 Resp: 626180
Ion Ratio Lower Upper
78 100
77 24.8 19.0 28.4



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

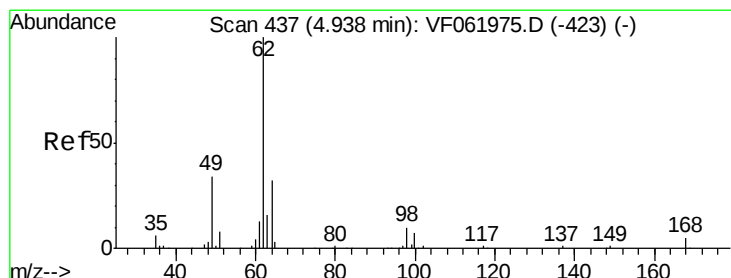
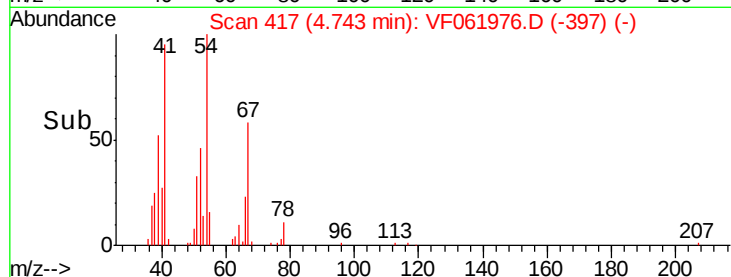
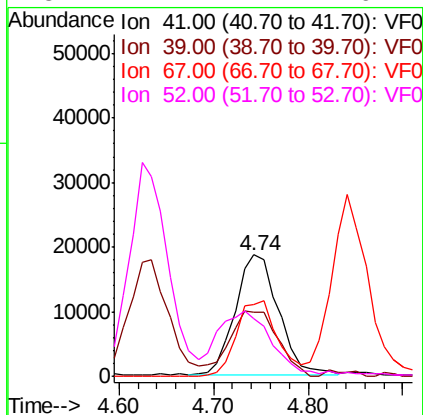
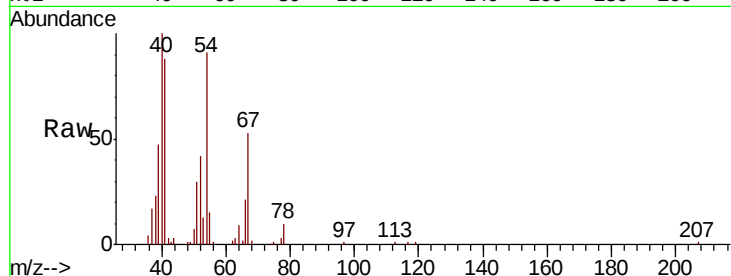




#41
Methacrylonitrile
Concen: 66.012 ug/l
RT: 4.74 min Scan# 417
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

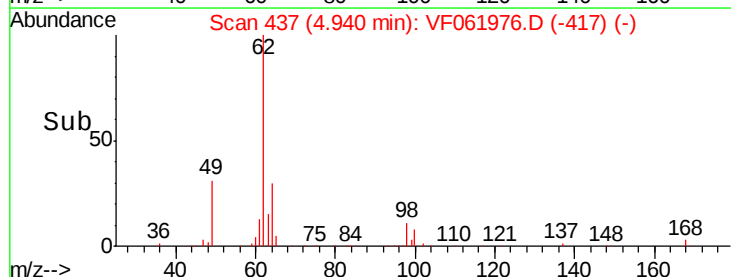
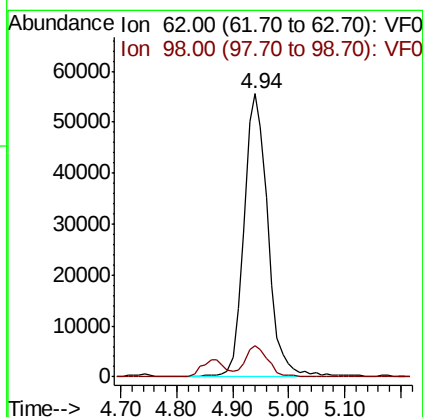
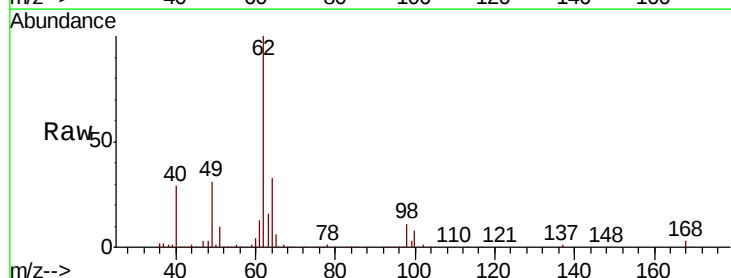
Instrument :
MSVOA_F
ClientSampleId :

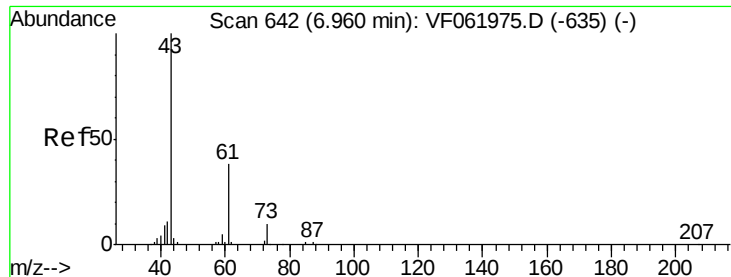
Tot Ion:	41	Resp:	59395
Ion	Ratio	Lower	Upper
41	100		
39	53.2	46.2	69.4
67	59.6	49.8	74.8
52	47.4	42.7	64.1



#42
1,2-Dichloroethane
Concen: 66.415 ug/l
RT: 4.94 min Scan# 437
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion:	62	Resp:	164311
Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	19.8



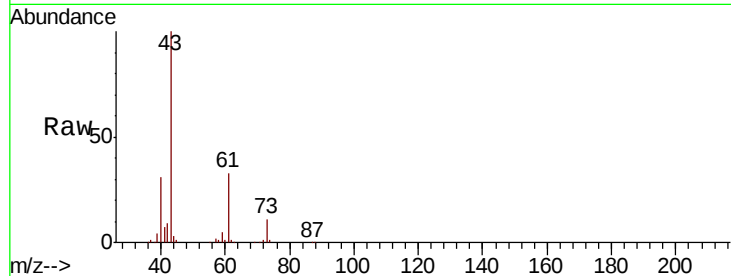


#43

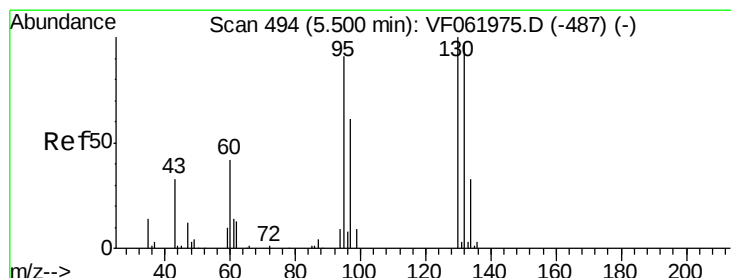
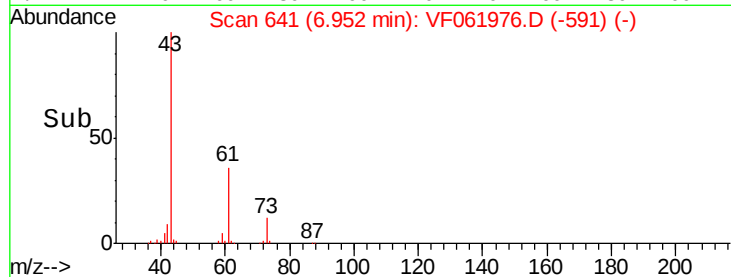
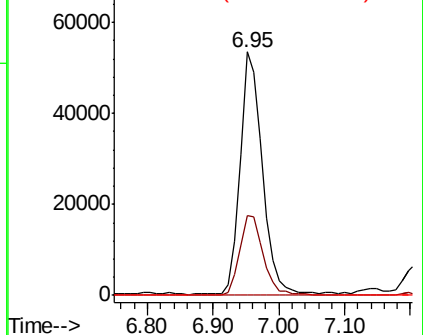
Isopropyl Acetate
 Concen: 64.125 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.01 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 127771
 Ion Ratio Lower Upper
 43 100
 61 32.8 30.1 45.1
 87 0.3 0.4 0.6#



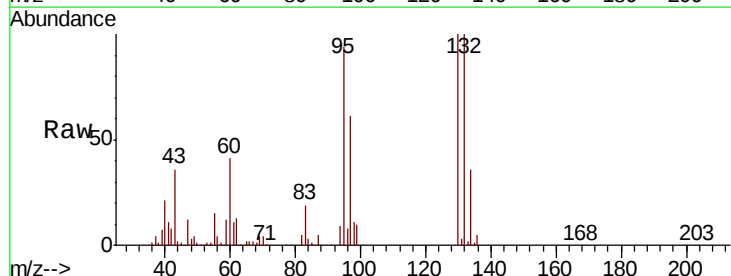
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



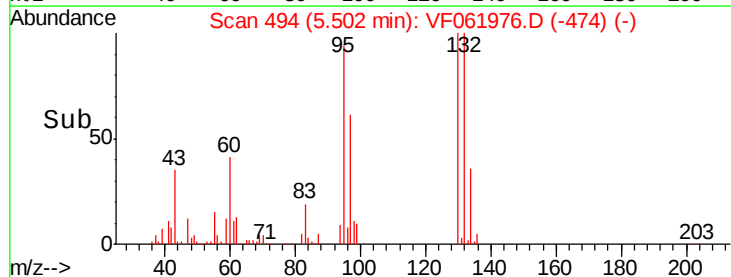
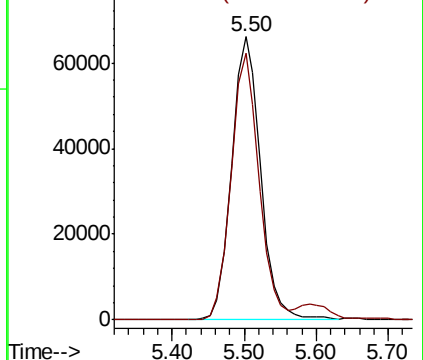
#44

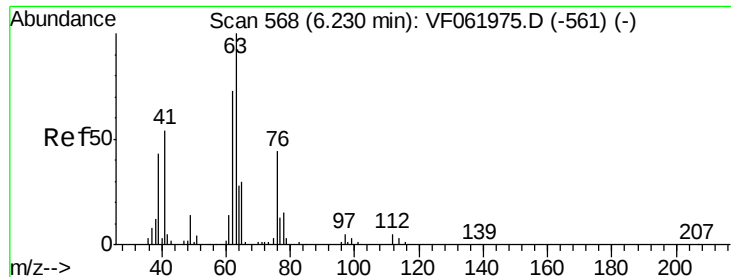
Trichloroethene
 Concen: 60.839 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Tgt Ion:130 Resp: 185221
 Ion Ratio Lower Upper
 130 100
 95 94.1 0.0 181.4



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





#45

1,2-Dichloropropane

Concen: 65.441 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

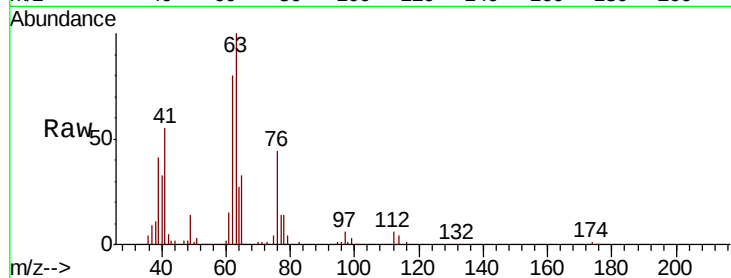
ClientSampleId :

Tot Ion: 63 Resp: 153915

Ion Ratio Lower Upper

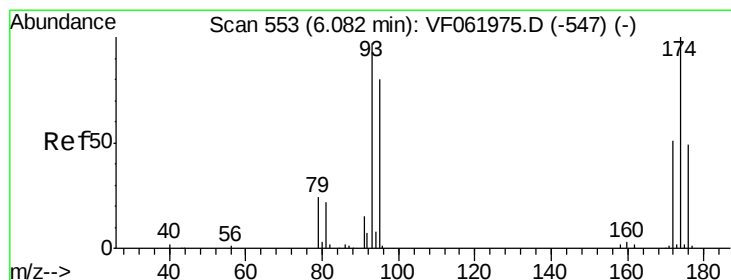
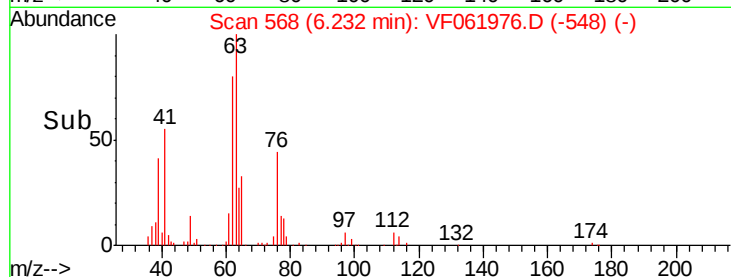
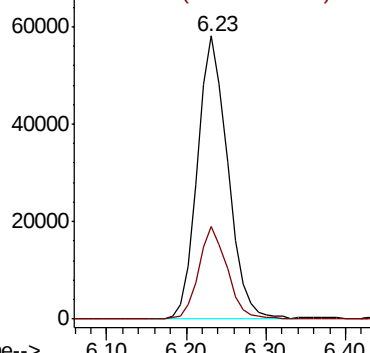
63 100

65 32.9 23.7 35.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 67.990 ug/l

RT: 6.08 min Scan# 553

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

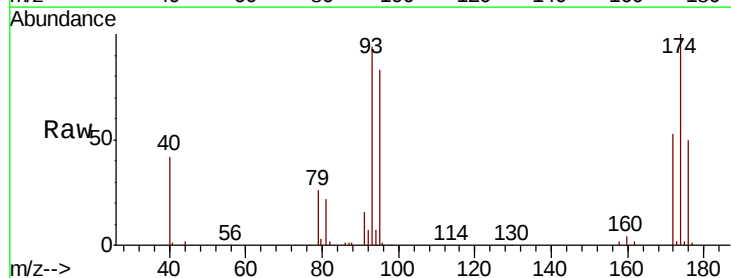
Tgt Ion: 93 Resp: 95127

Ion Ratio Lower Upper

93 100

95 88.3 65.7 98.5

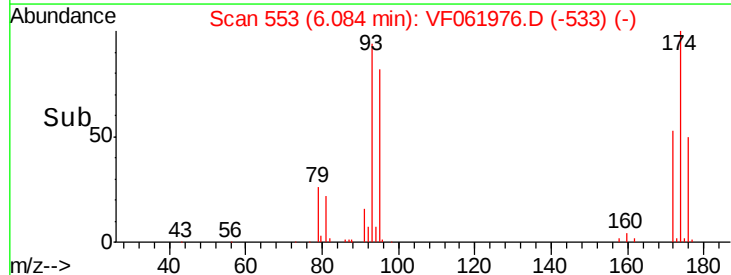
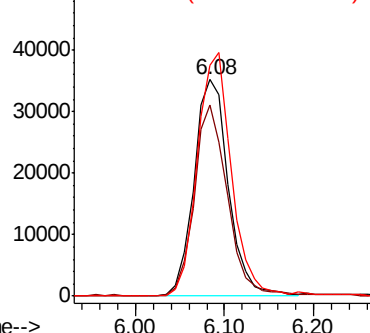
174 106.7 82.2 123.4

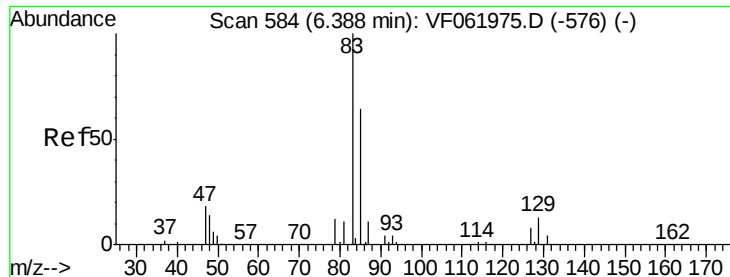


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 65.253 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampled :

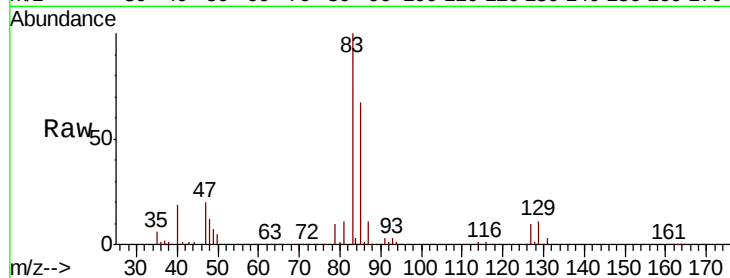
Tot Ion: 83 Resp: 215242

Ion Ratio Lower Upper

83 100

85 67.5 51.4 77.2

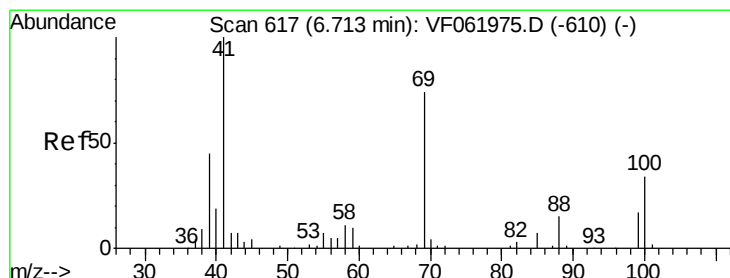
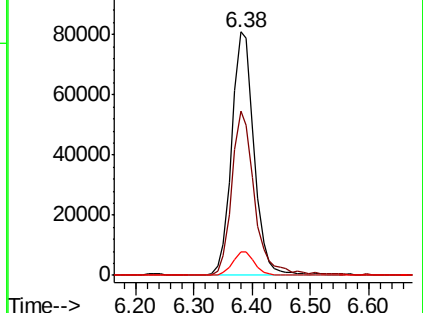
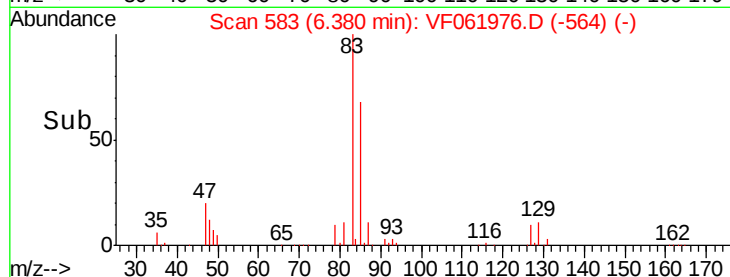
127 9.6 6.5 9.7



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: 63.457 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

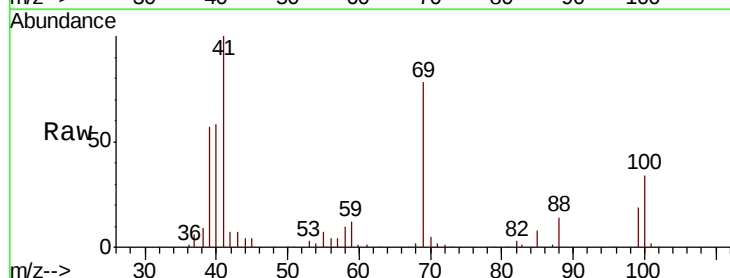
Tgt Ion: 41 Resp: 81717

Ion Ratio Lower Upper

41 100

69 78.0 59.0 88.6

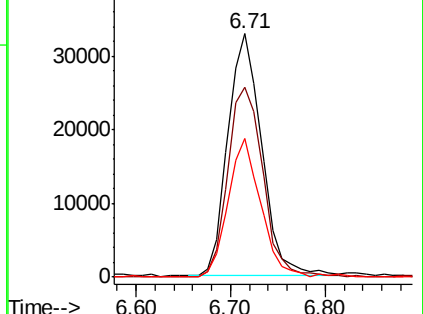
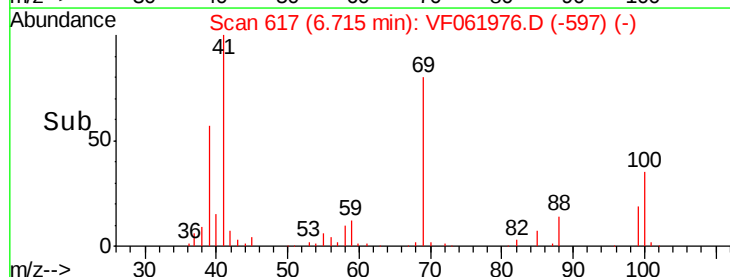
39 56.7 35.6 53.4#

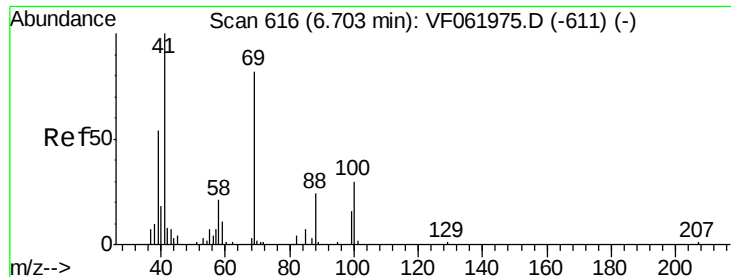


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

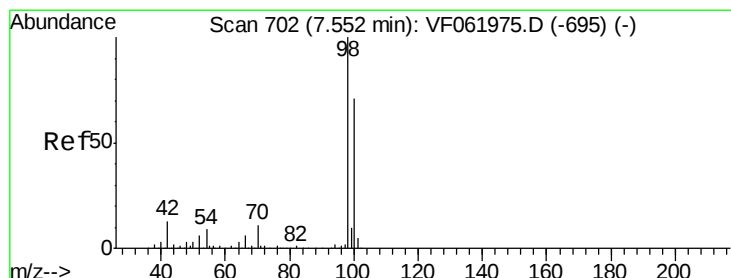
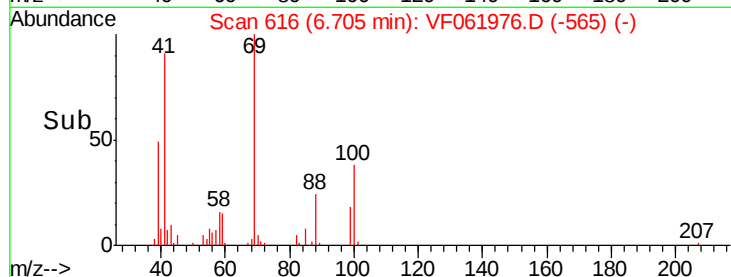
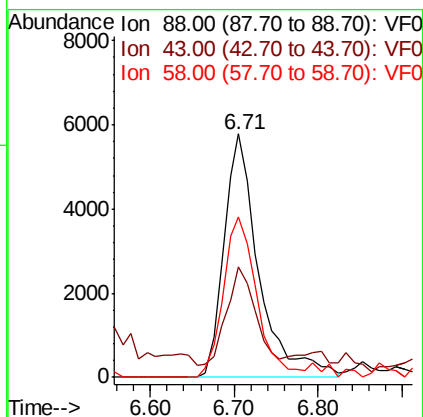
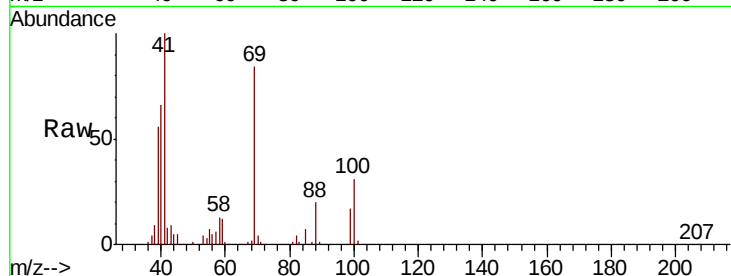




#49
1,4-Dioxane
Concen: 1449.374 ug/l
RT: 6.71 min Scan# 616
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

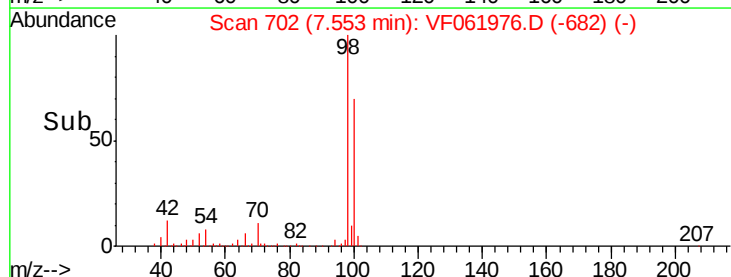
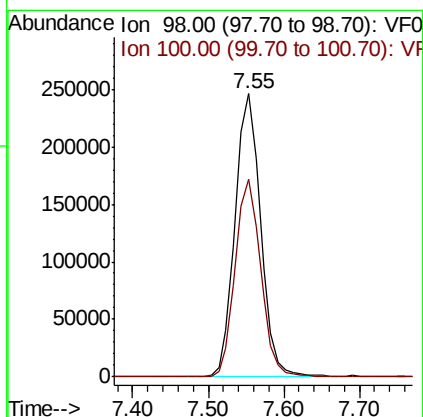
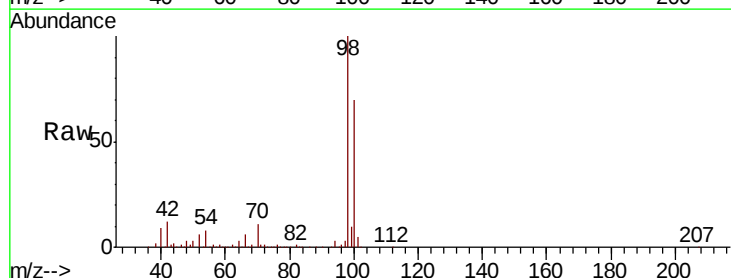
Instrument :
MSVOA_F
ClientSampleId :

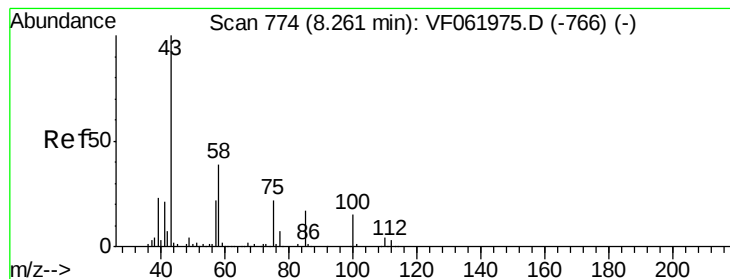
Tot Ion: 88 Resp: 16602
Ion Ratio Lower Upper
88 100
43 45.6 31.2 46.8
58 65.8 69.9 104.9#



#50
Toluene-d8
Concen: 70.716 ug/l
RT: 7.55 min Scan# 702
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion: 98 Resp: 576553
Ion Ratio Lower Upper
98 100
100 69.9 56.8 85.2





#51

4-Methyl-2-Pentanone

Concen: 333.666 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

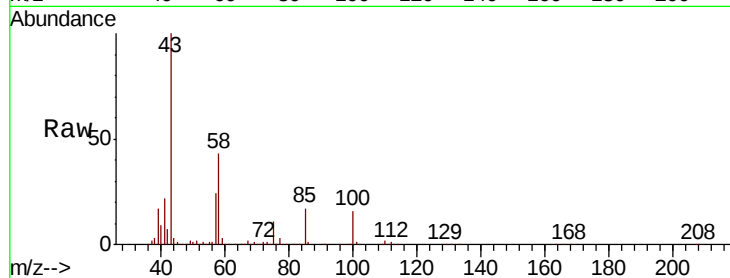
ClientSampleId :

Tot Ion: 43 Resp: 472110

Ion Ratio Lower Upper

43 100

58 43.1 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

200000

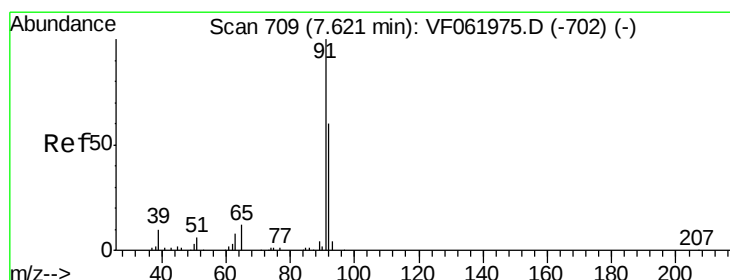
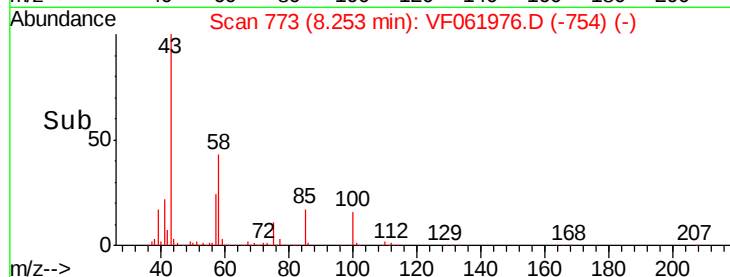
150000

100000

50000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 62.642 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.00 min

Lab File: VF061976.D

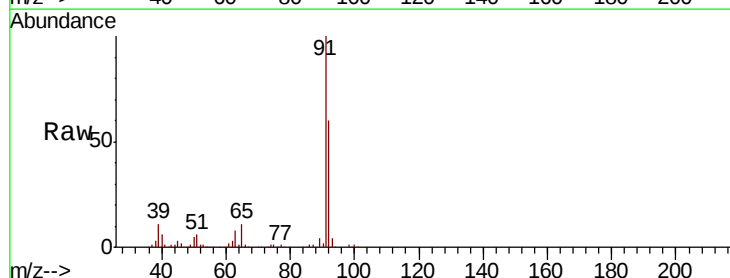
Acq: 16 Mar 2019 13:22

Tgt Ion: 92 Resp: 380381

Ion Ratio Lower Upper

92 100

91 165.4 134.0 201.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

300000

250000

200000

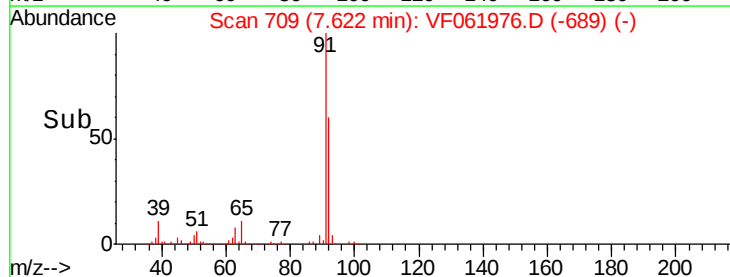
150000

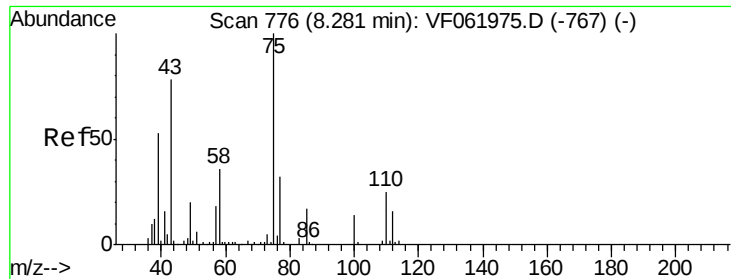
100000

50000

0

Time--> 7.50 7.60 7.70 7.80





#53

t-1,3-Dichloropropene

Concen: 65.059 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

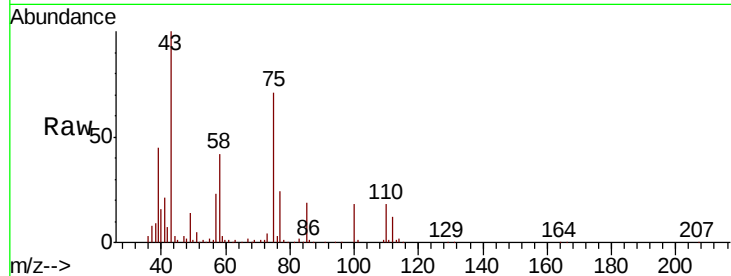
ClientSampleId :

Tot Ion: 75 Resp: 181177

Ion Ratio Lower Upper

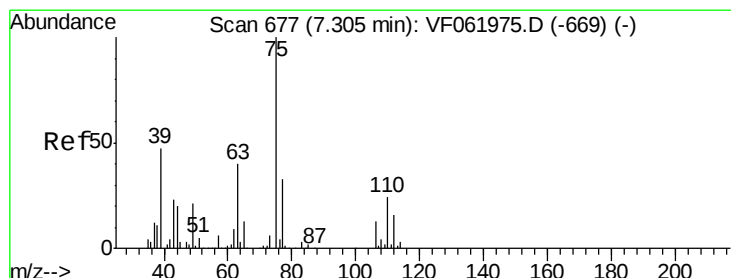
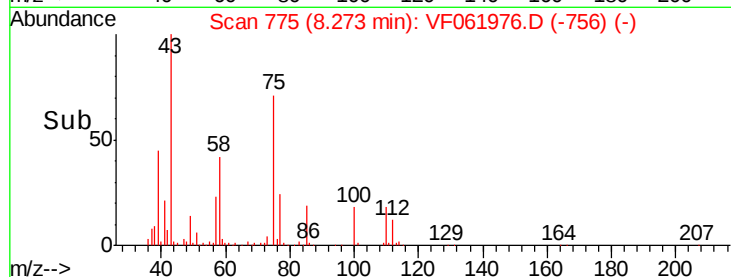
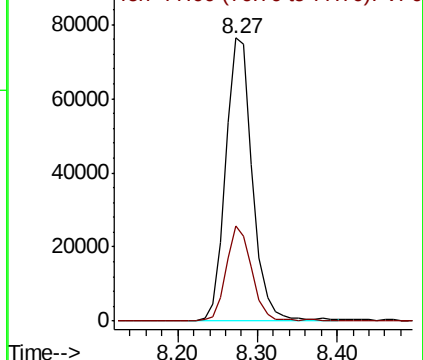
75 100

77 33.5 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: 67.930 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

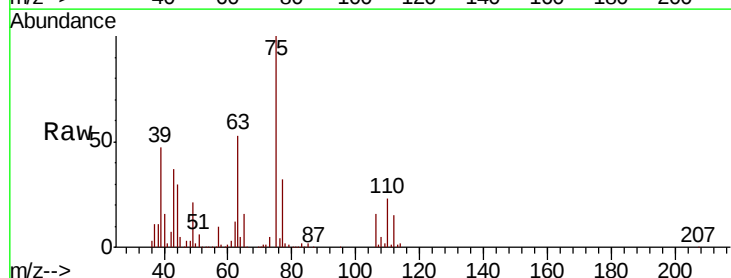
Tgt Ion: 75 Resp: 246834

Ion Ratio Lower Upper

75 100

77 32.4 26.4 39.6

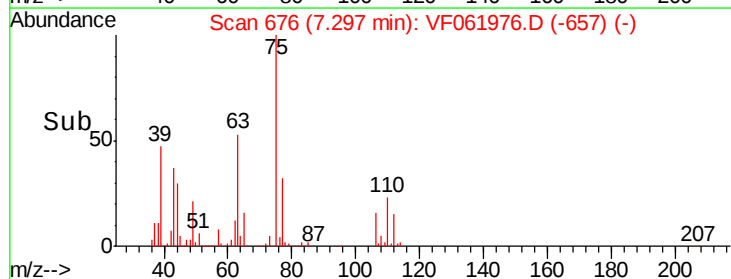
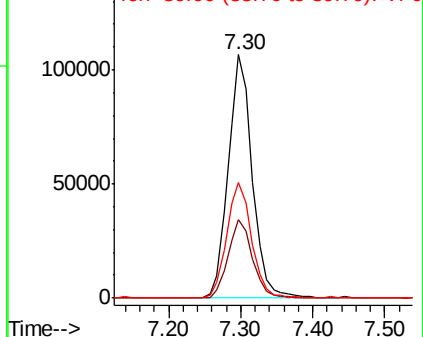
39 47.4 38.0 57.0

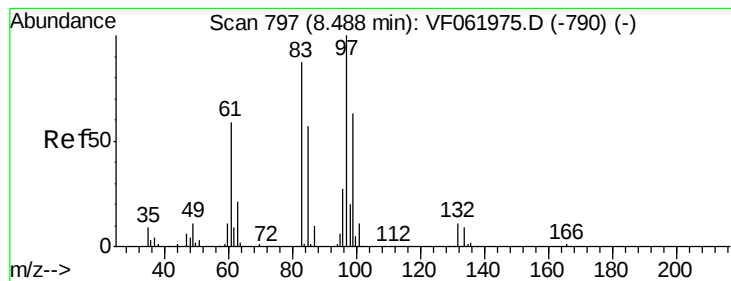


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 63.094 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 106930

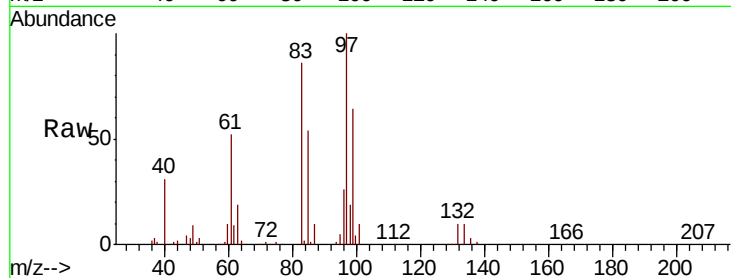
Ion Ratio Lower Upper

97 100

83 85.8 69.7 104.5

85 54.1 45.8 68.6

99 64.0 50.3 75.5

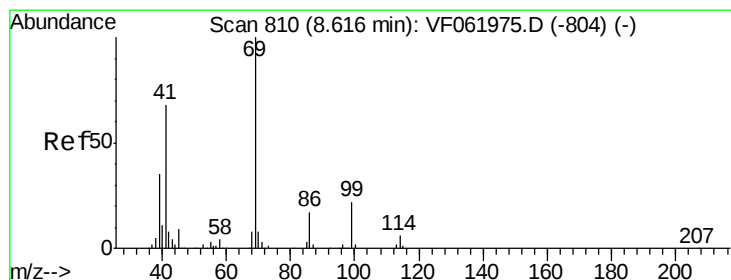
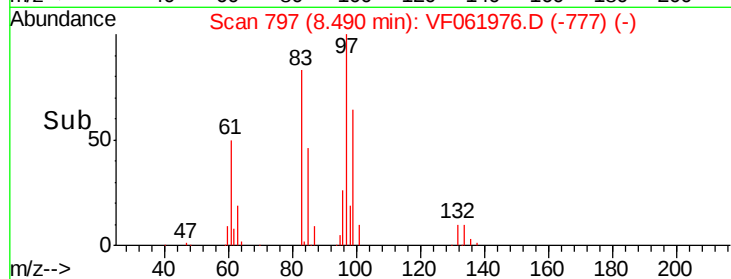
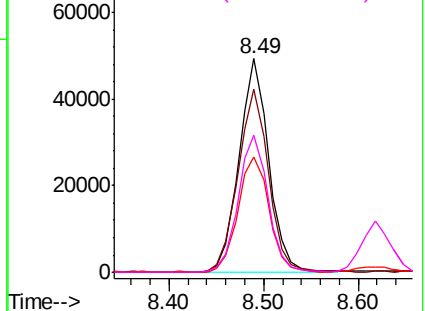


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 63.533 ug/l

RT: 8.62 min Scan# 810

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

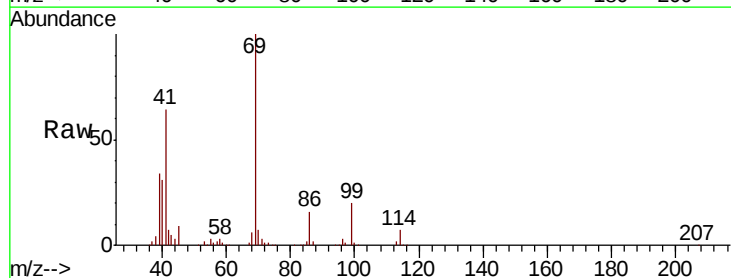
Tgt Ion: 69 Resp: 122399

Ion Ratio Lower Upper

69 100

41 64.1 54.7 82.1

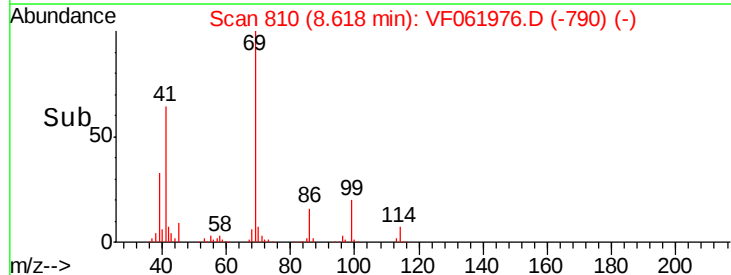
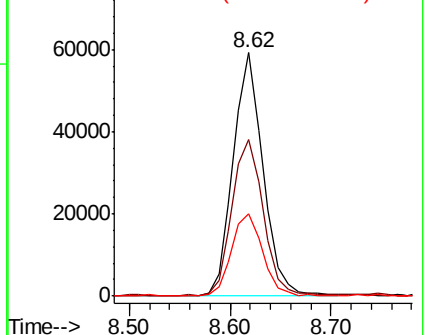
39 33.7 27.9 41.9

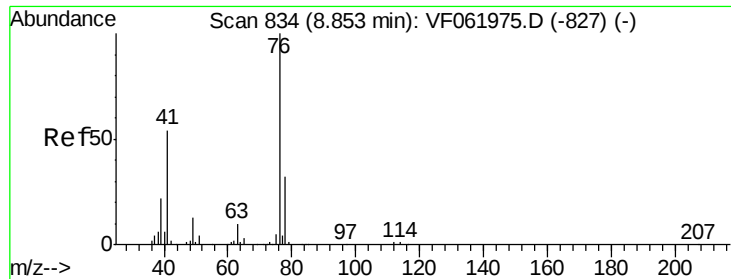


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 64.012 ug/l

RT: 8.85 min Scan# 834

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

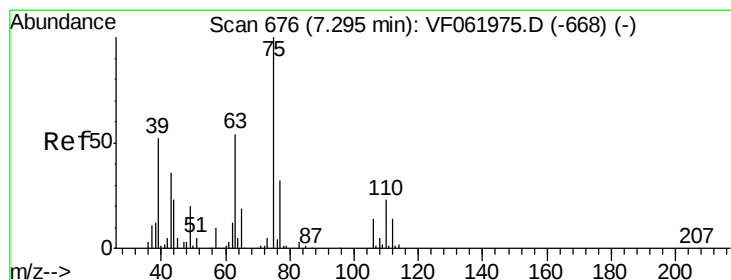
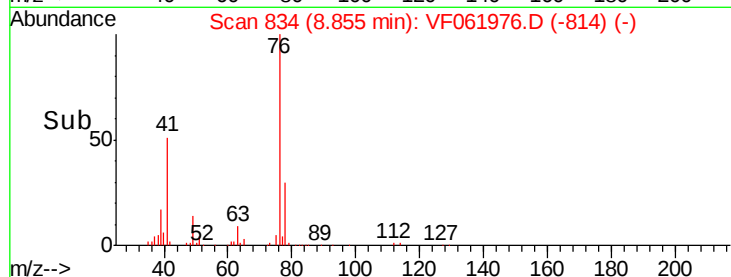
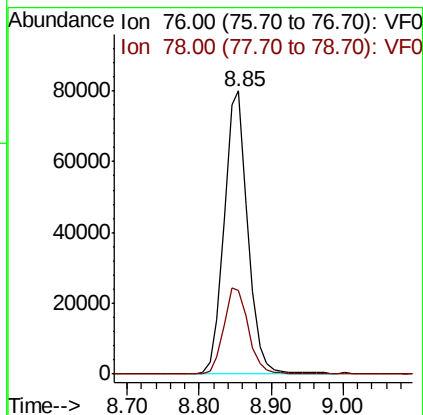
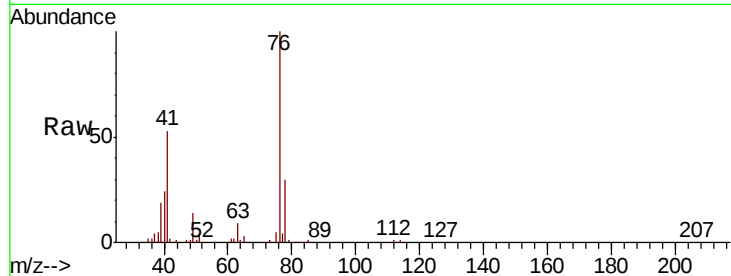
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 180967

Ion Ratio Lower Upper

76 100

78 29.7 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 385.839 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.00 min

Lab File: VF061976.D

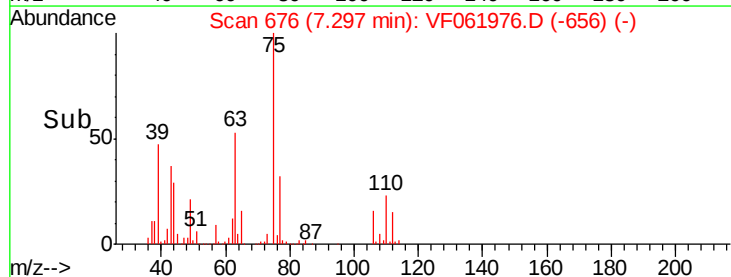
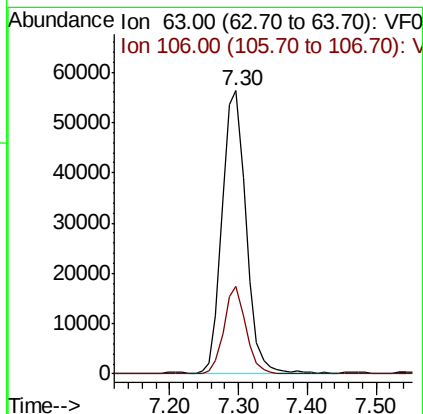
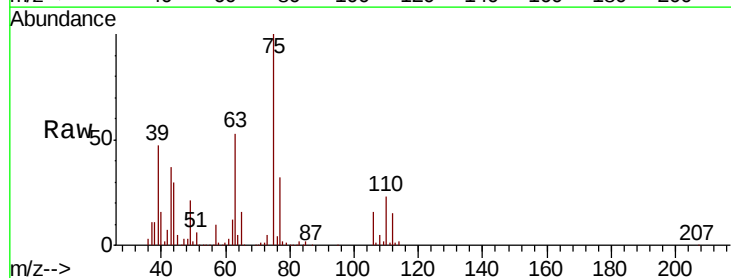
Acq: 16 Mar 2019 13:22

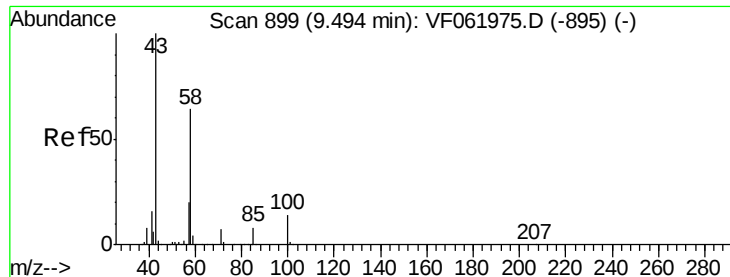
Tgt Ion: 63 Resp: 134639

Ion Ratio Lower Upper

63 100

106 31.1 20.9 31.3





#59

2-Hexanone

Concen: 340.993 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

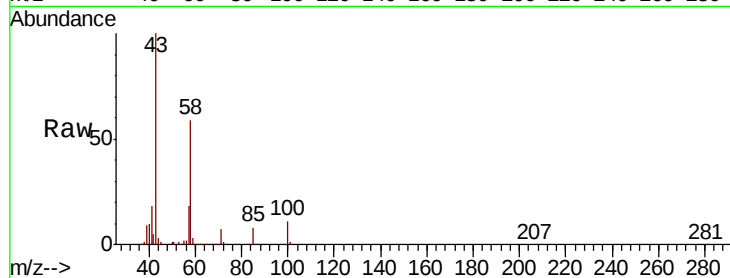
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 349171

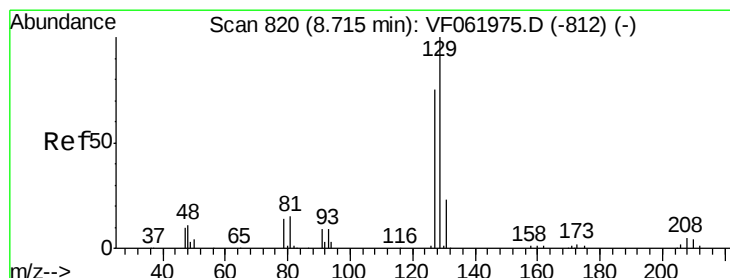
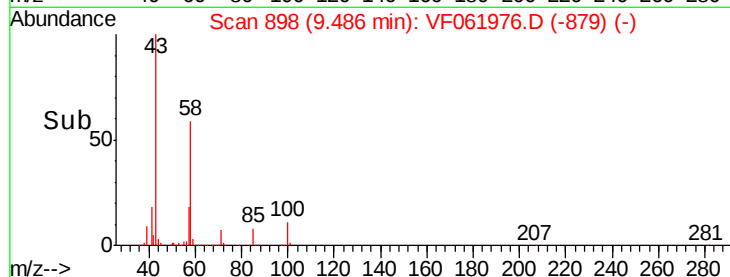
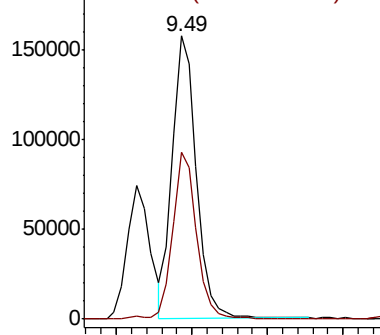
Ion Ratio Lower Upper

43 100

58 59.0 28.4 85.2



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



#60

Dibromochloromethane

Concen: 67.826 ug/l

RT: 8.72 min Scan# 820

Delta R.T. 0.00 min

Lab File: VF061976.D

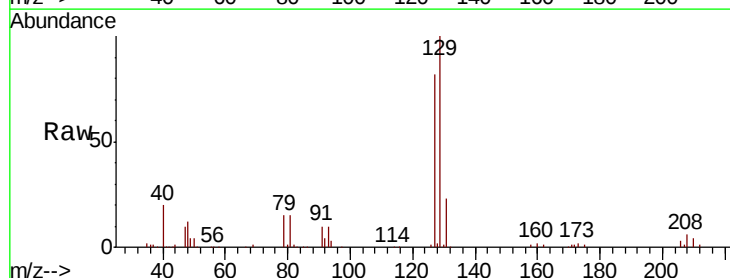
Acq: 16 Mar 2019 13:22

Tgt Ion:129 Resp: 159579

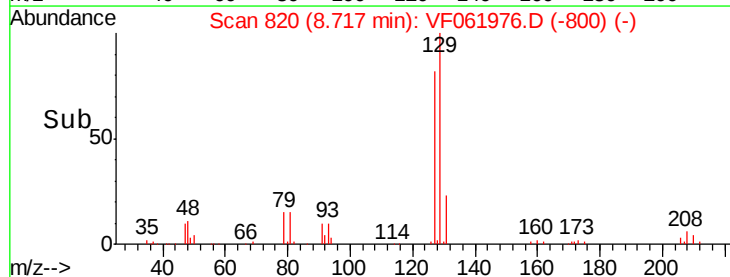
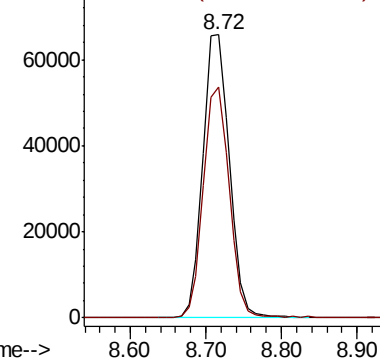
Ion Ratio Lower Upper

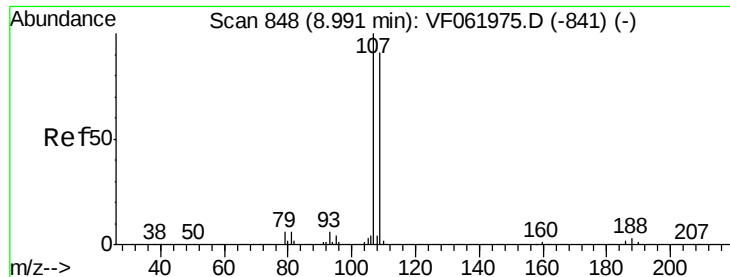
129 100

127 81.8 37.3 111.8



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#61

1,2-Dibromoethane

Concen: 65.402 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

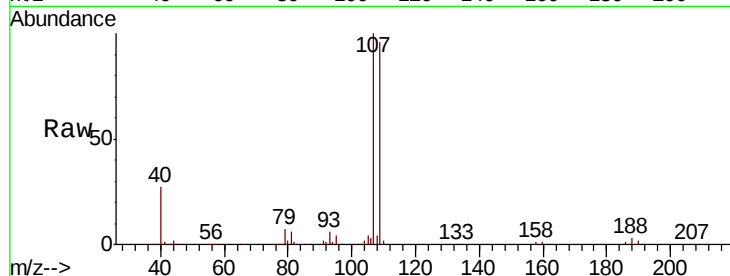
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:107 Resp: 118894

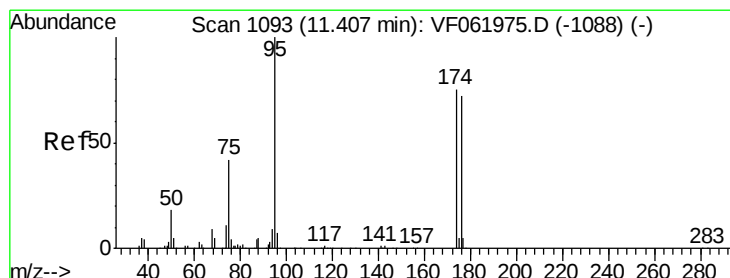
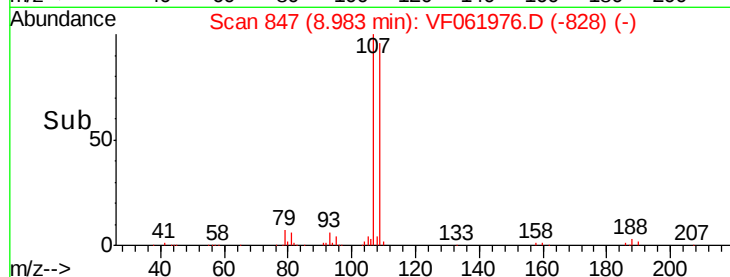
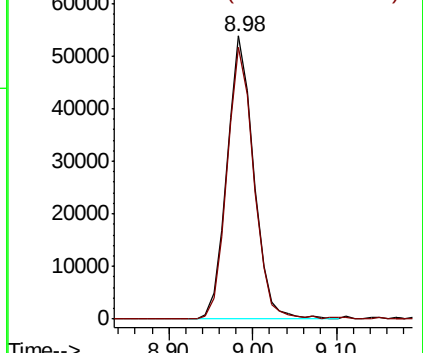
Ion Ratio Lower Upper

107 100

109 96.2 72.8 109.2



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 70.387 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

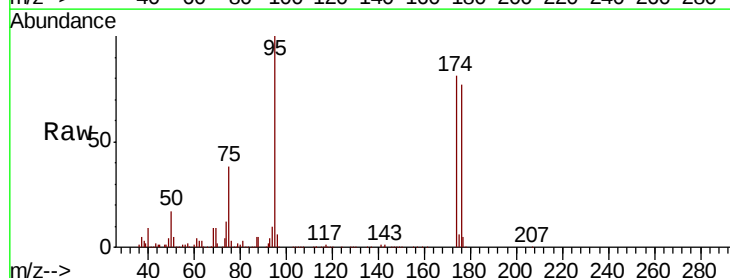
Tgt Ion: 95 Resp: 227978

Ion Ratio Lower Upper

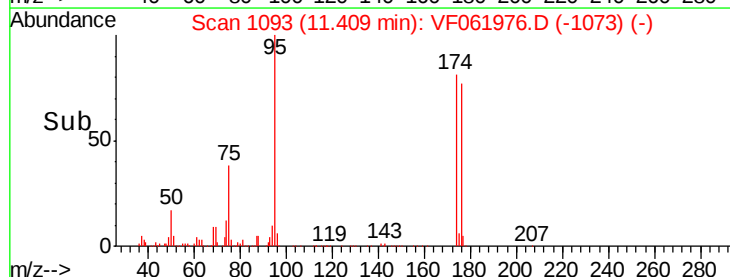
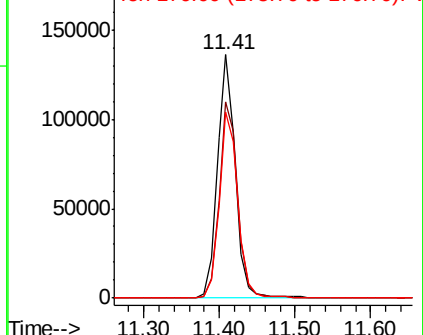
95 100

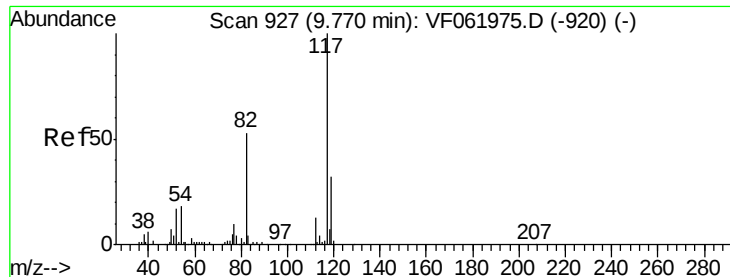
174 80.6 0.0 149.4

176 76.5 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

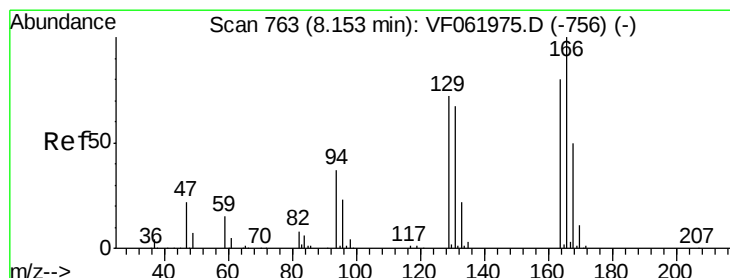
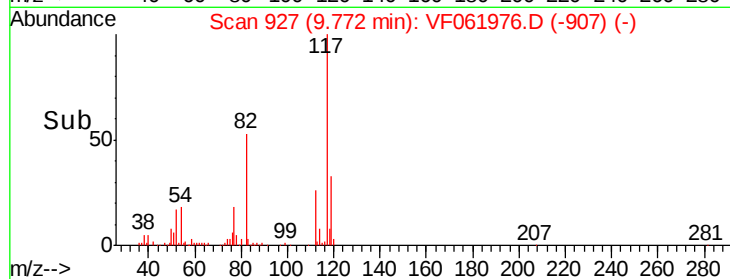
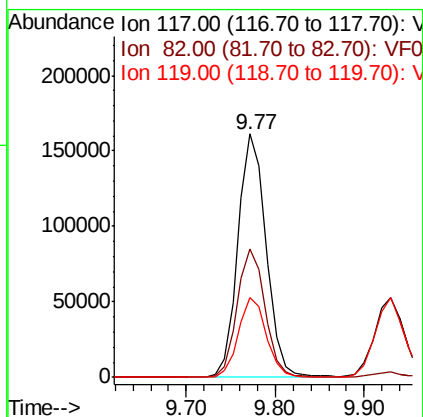
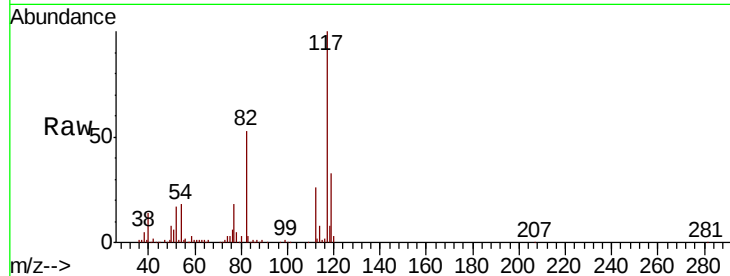




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

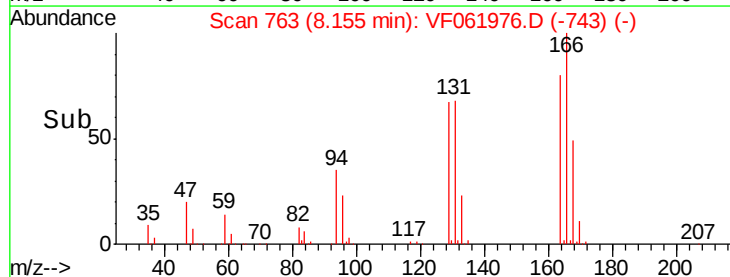
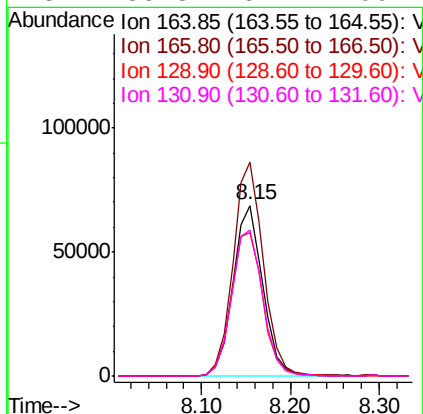
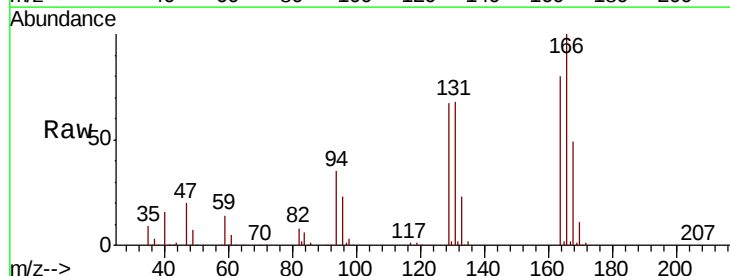
Instrument :
MSVOA_F
ClientSampleId :

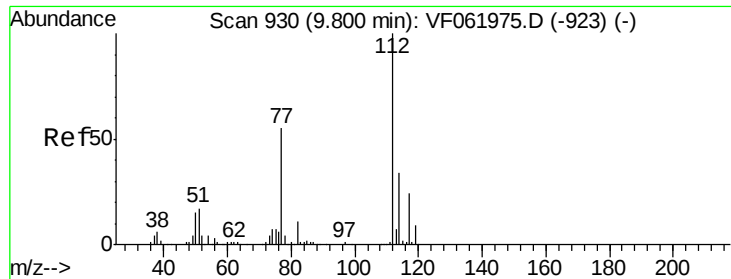
Tot Ion:117 Resp: 355360
Ion Ratio Lower Upper
117 100
82 53.0 42.5 63.7
119 33.0 25.4 38.0



#64
Tetrachloroethene
Concen: 61.816 ug/l
RT: 8.15 min Scan# 763
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion:164 Resp: 159675
Ion Ratio Lower Upper
164 100
166 125.4 100.0 150.0
129 83.9 72.4 108.6
131 85.3 67.1 100.7

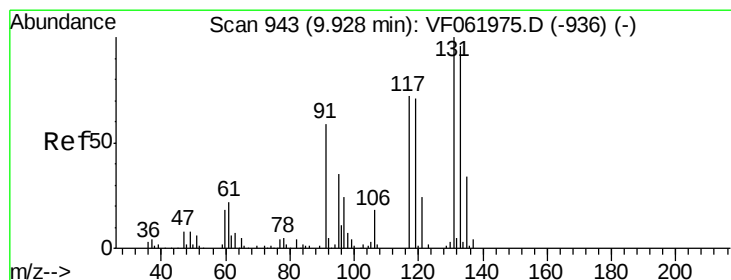
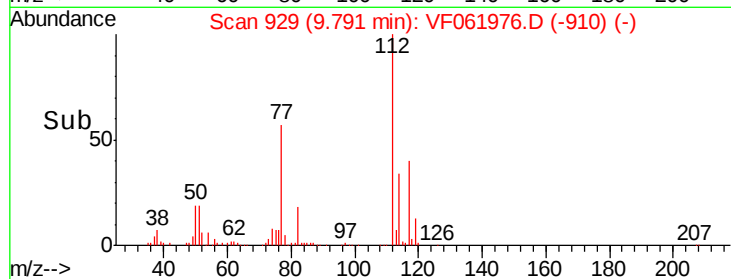
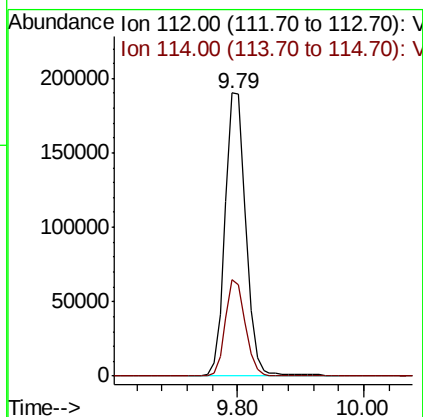
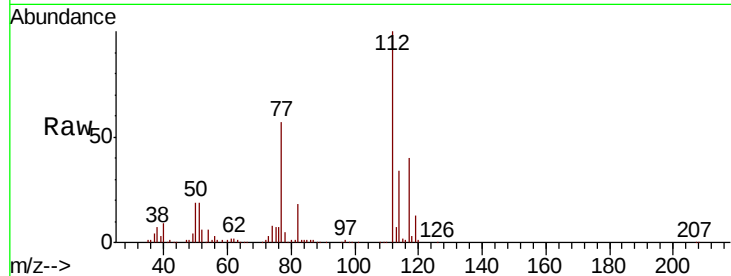




#65
Chlorobenzene
Concen: 65.747 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

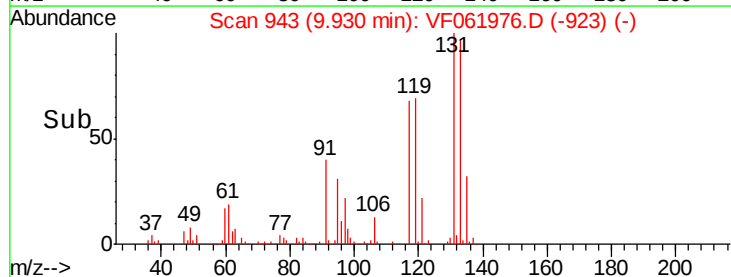
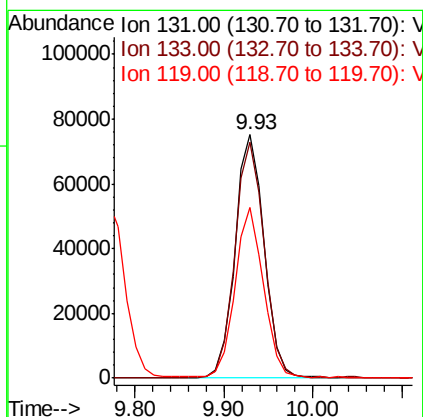
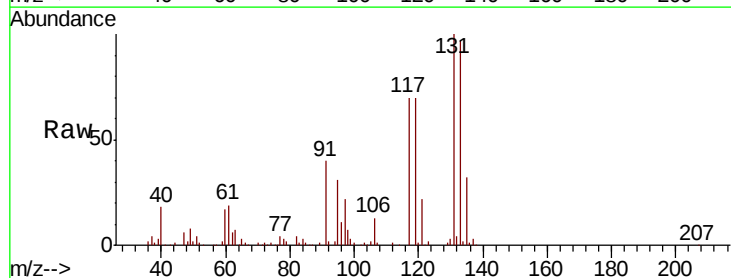
Instrument :
MSVOA_F
ClientSampleId :

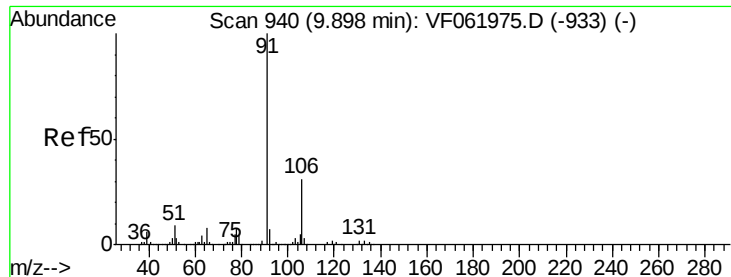
Tot Ion:112 Resp: 434990
Ion Ratio Lower Upper
112 100
114 34.0 26.9 40.3



#66
1,1,1,2-Tetrachloroethane
Concen: 66.580 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion:131 Resp: 170749
Ion Ratio Lower Upper
131 100
133 97.0 48.0 144.2
119 70.0 35.9 107.7





#67

Ethyl Benzene

Concen: 62.474 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

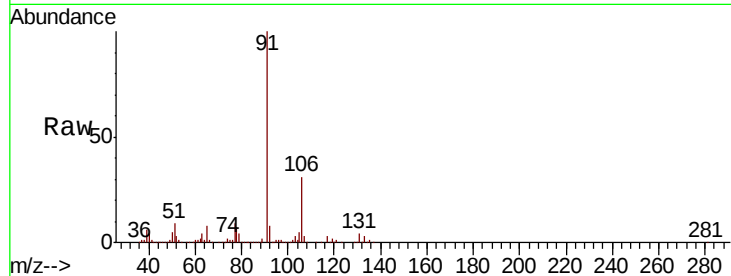
ClientSampleId :

Tot Ion: 91 Resp: 707733

Ion Ratio Lower Upper

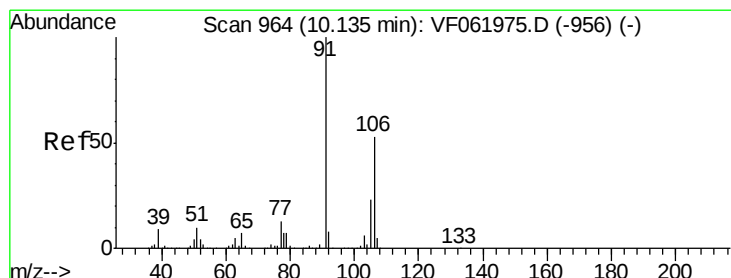
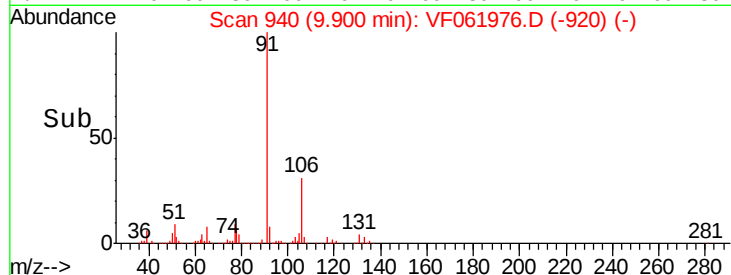
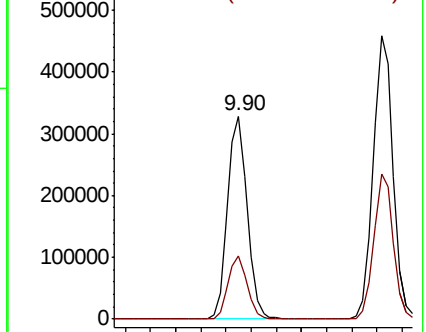
91 100

106 30.9 24.4 36.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 119.629 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061976.D

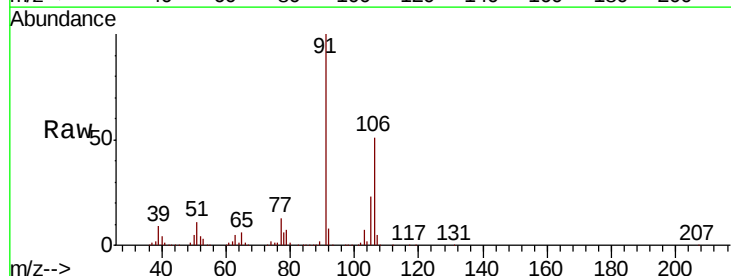
Acq: 16 Mar 2019 13:22

Tgt Ion:106 Resp: 509703

Ion Ratio Lower Upper

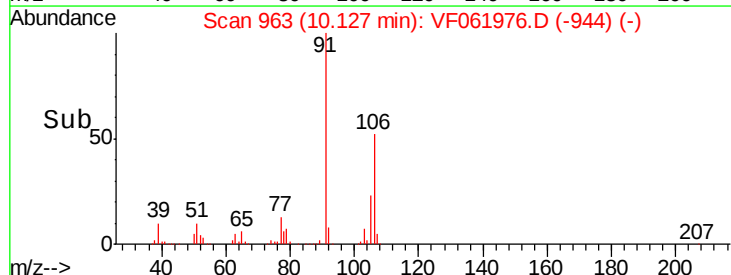
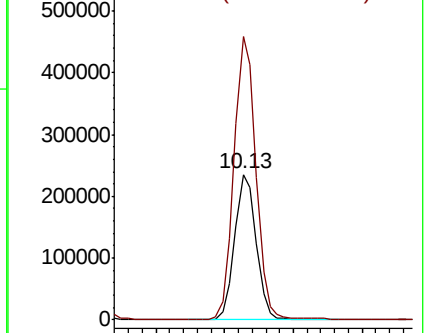
106 100

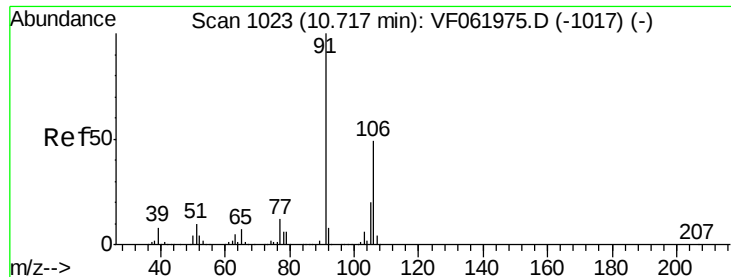
91 194.8 151.9 227.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

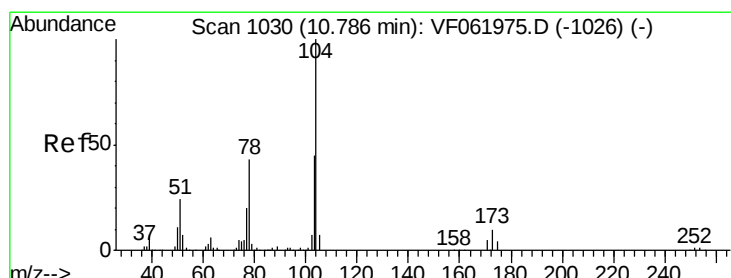
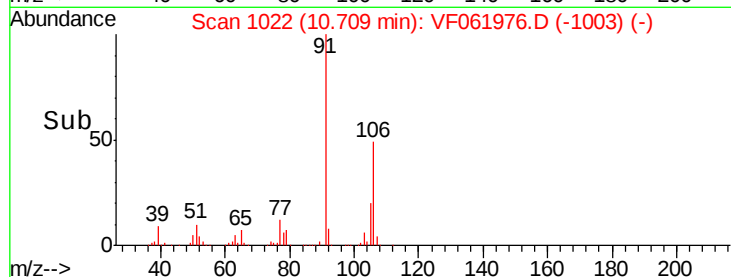
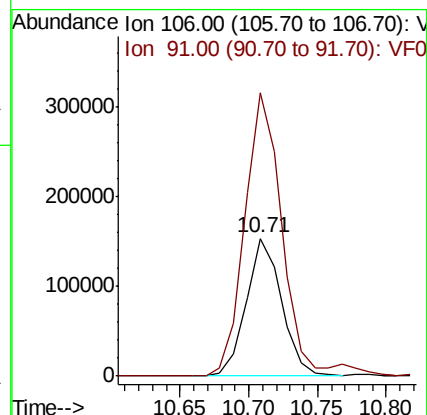
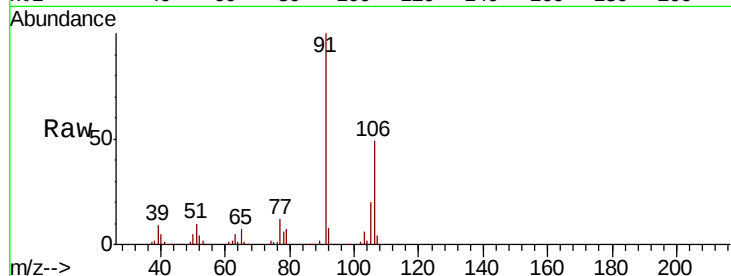




#69
o-Xylene
Concen: 60.672 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

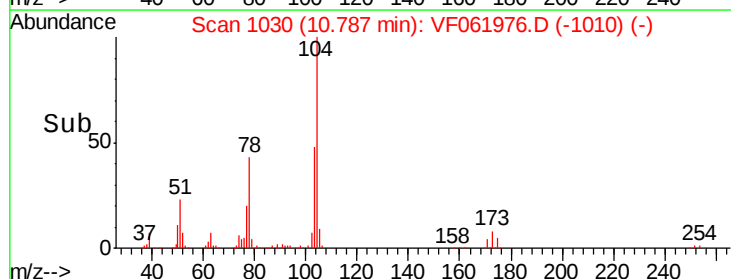
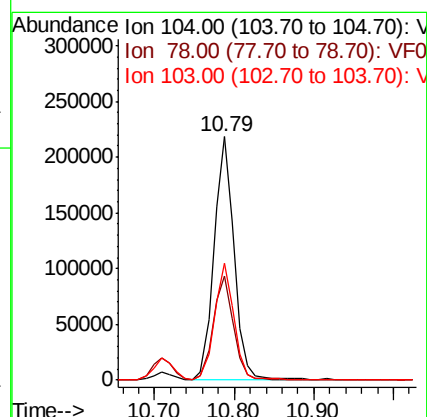
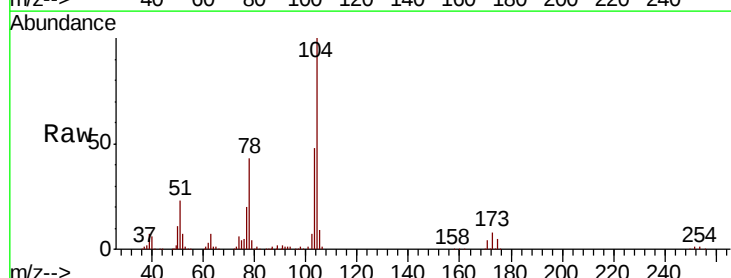
Instrument :
MSVOA_F
ClientSampleId :

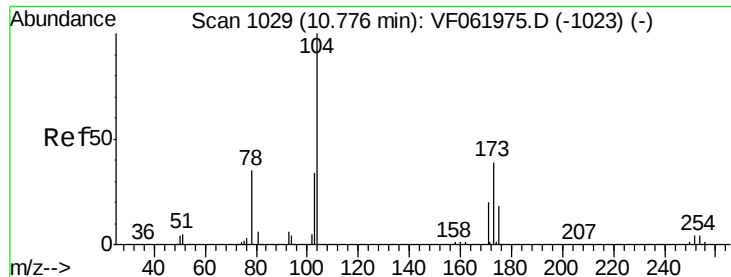
Tot Ion:106 Resp: 276607
Ion Ratio Lower Upper
106 100
91 205.8 102.3 306.8



#70
Styrene
Concen: 61.012 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion:104 Resp: 385361
Ion Ratio Lower Upper
104 100
78 42.8 34.7 52.1
103 47.9 36.6 54.8





#71

Bromoform

Concen: 67.611 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

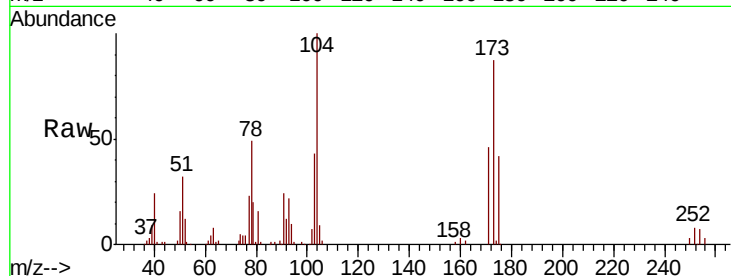
Tot Ion:173 Resp: 87703

Ion Ratio Lower Upper

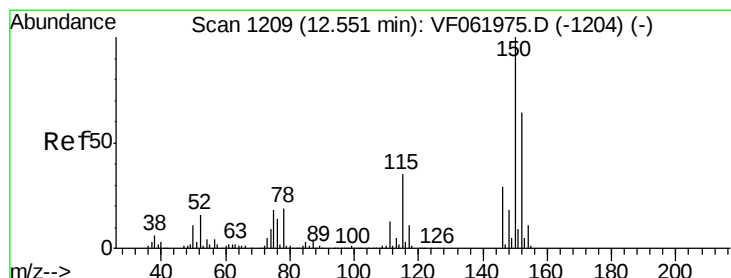
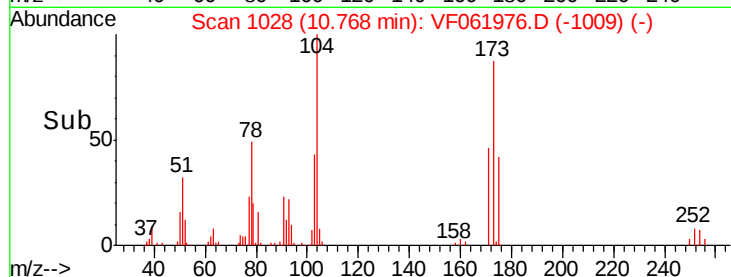
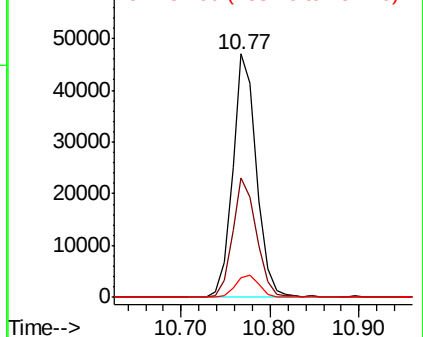
173 100

175 49.2 23.7 71.1

254 8.1 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: VF061976.D

Acq: 16 Mar 2019 13:22

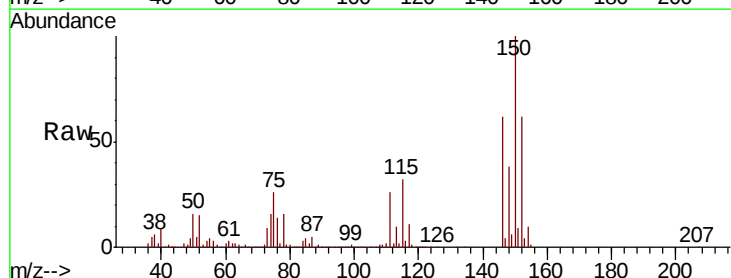
Tgt Ion:152 Resp: 185924

Ion Ratio Lower Upper

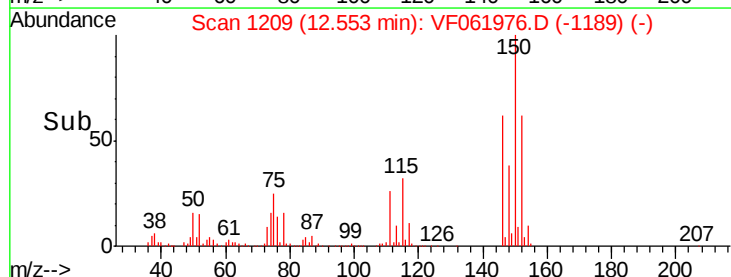
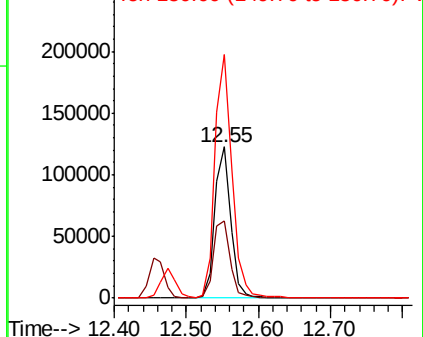
152 100

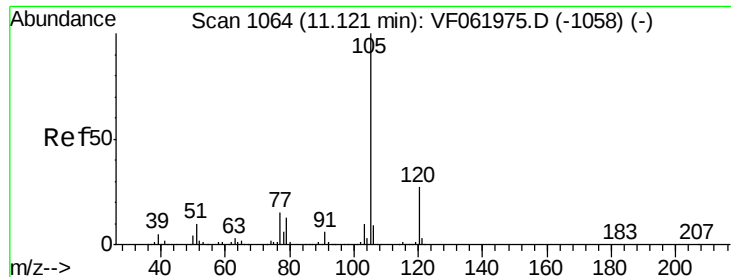
115 51.0 27.3 81.9

150 161.0 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: 60.891 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

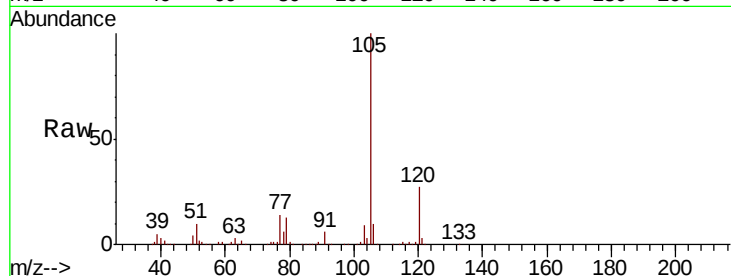
ClientSampleId :

Tot Ion:105 Resp: 782127

Ion Ratio Lower Upper

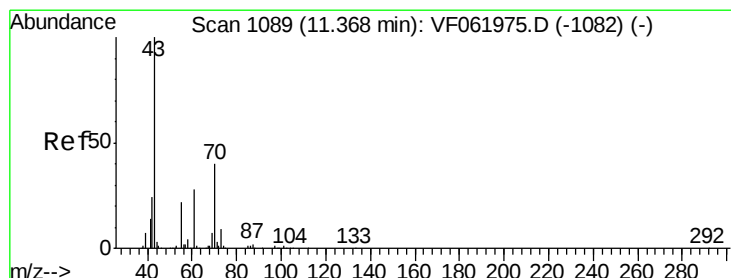
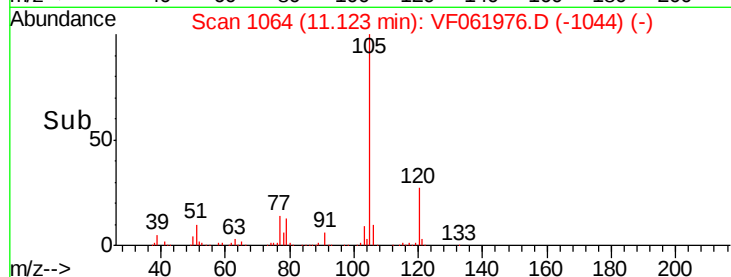
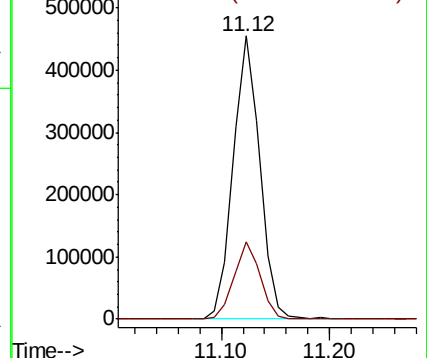
105 100

120 27.2 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 74.693 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Tgt Ion: 43 Resp: 219835

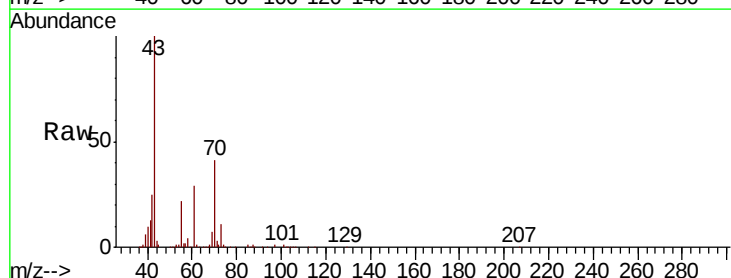
Ion Ratio Lower Upper

43 100

70 40.5 31.9 47.9

55 21.6 17.9 26.9

61 28.7 22.2 33.2

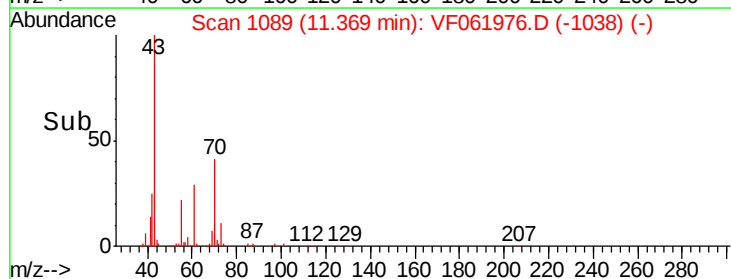
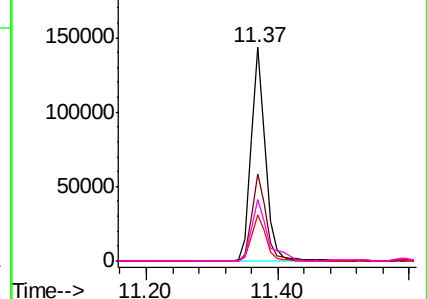


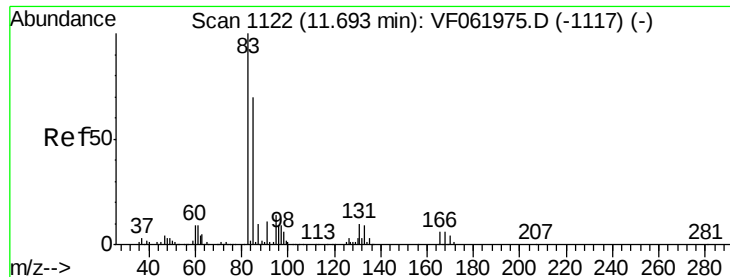
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 66.370 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

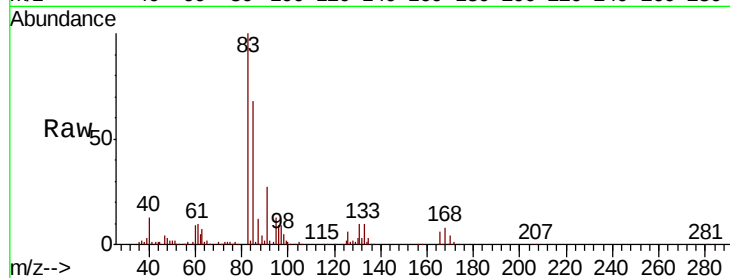
Tot Ion: 83 Resp: 140715

Ion Ratio Lower Upper

83 100

131 10.2 4.9 14.7

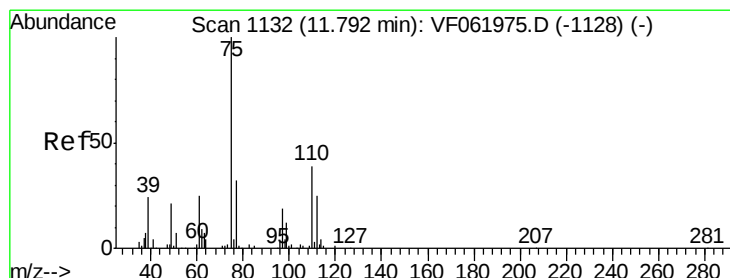
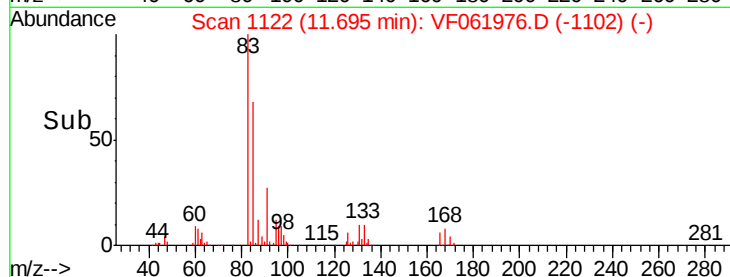
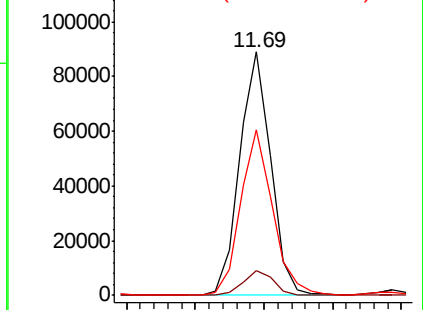
85 68.0 35.3 105.9



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: 65.341 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF061976.D

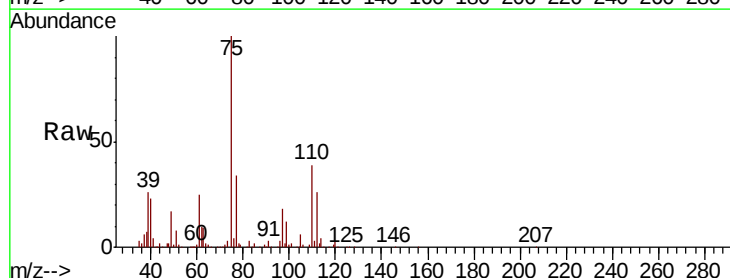
Acq: 16 Mar 2019 13:22

Tgt Ion: 75 Resp: 96872

Ion Ratio Lower Upper

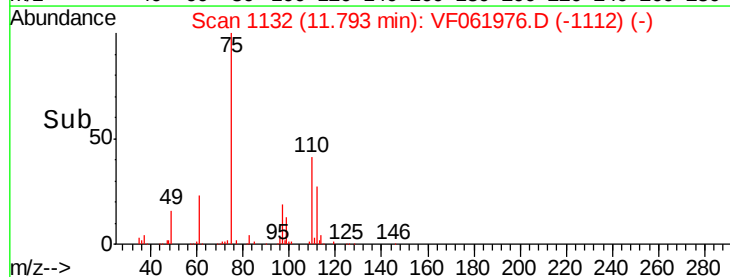
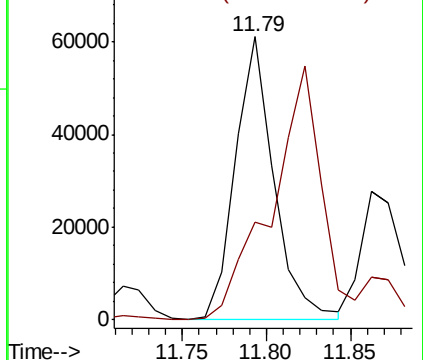
75 100

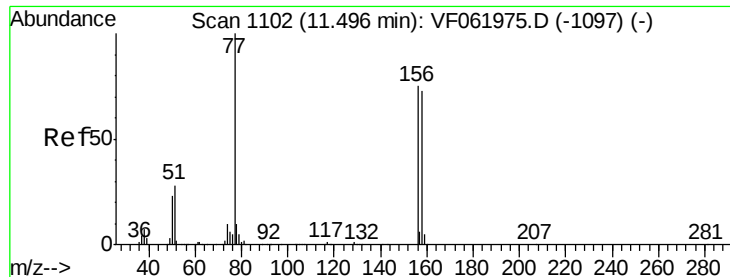
77 34.4 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 64.557 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

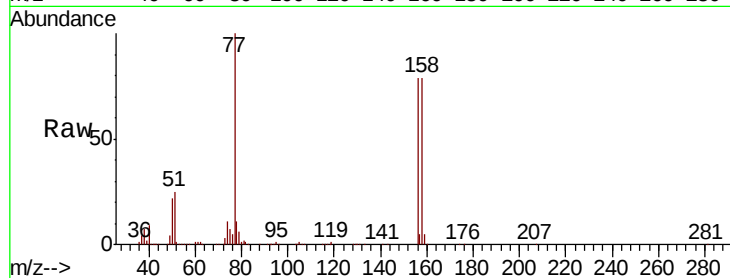
Tot Ion:156 Resp: 192030

Ion Ratio Lower Upper

156 100

77 126.9 67.0 201.0

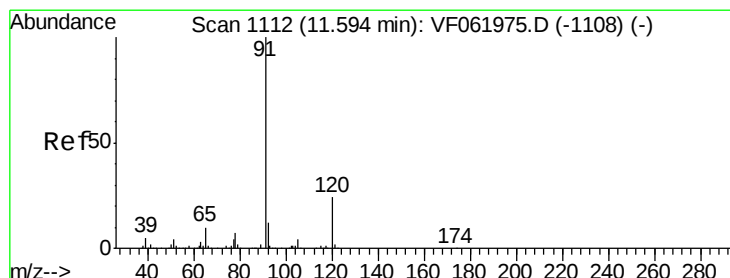
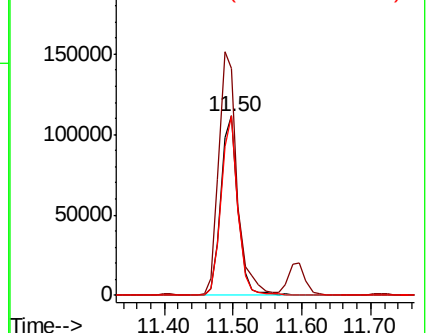
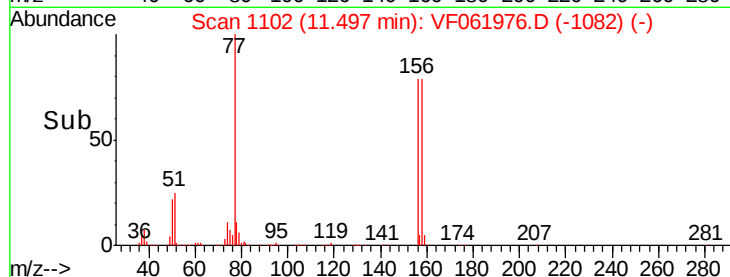
158 100.0 48.9 146.7



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: 59.775 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF061976.D

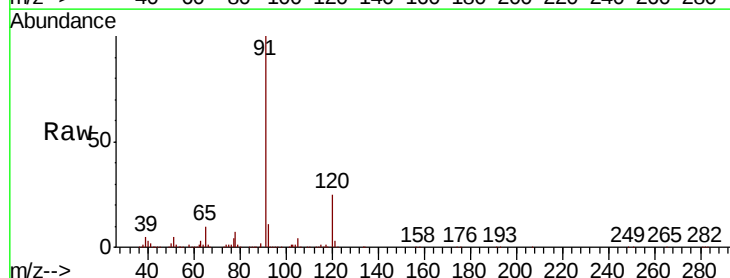
Acq: 16 Mar 2019 13:22

Tgt Ion: 91 Resp: 882858

Ion Ratio Lower Upper

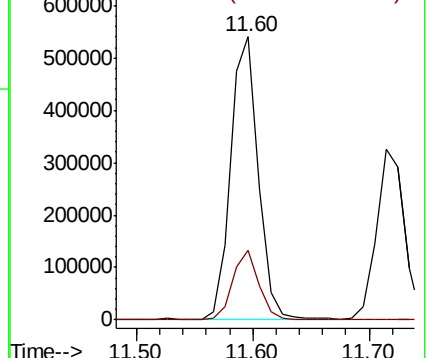
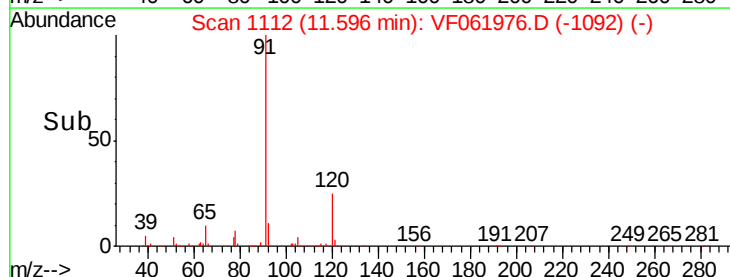
91 100

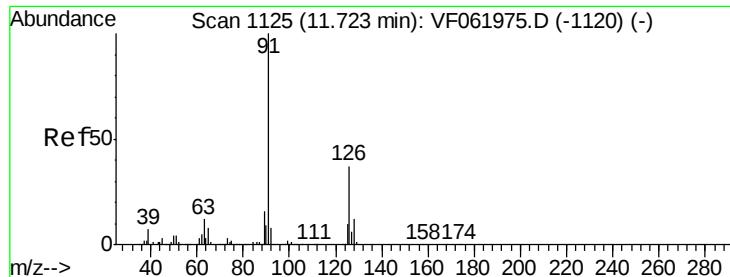
120 24.6 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 63.692 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

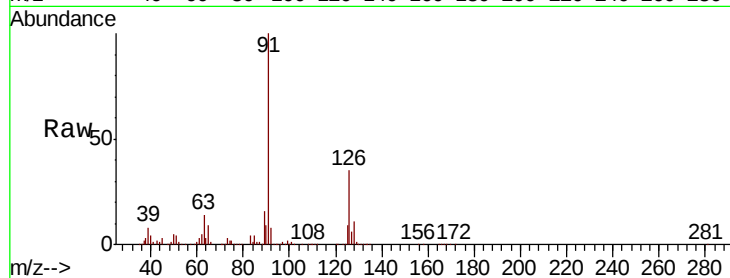
ClientSampleId :

Tot Ion: 91 Resp: 530983

Ion Ratio Lower Upper

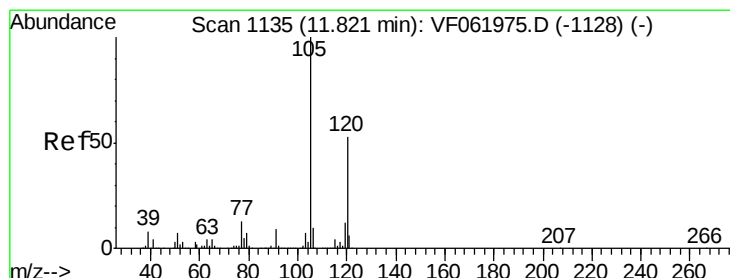
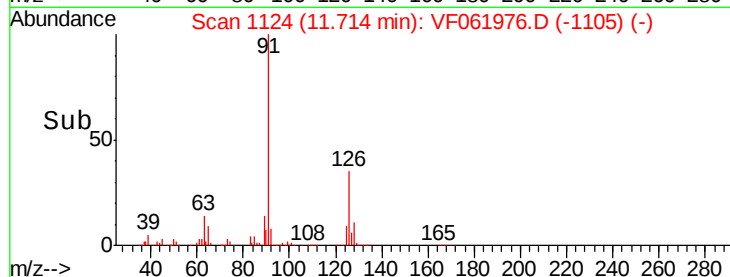
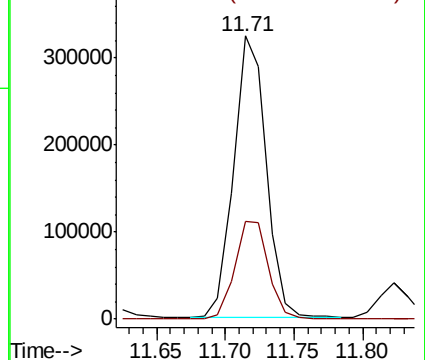
91 100

126 34.7 18.4 55.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 59.749 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF061976.D

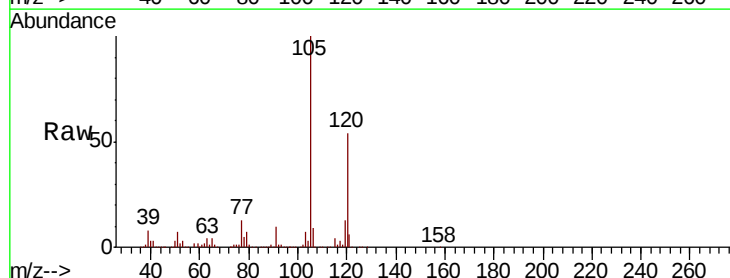
Acq: 16 Mar 2019 13:22

Tgt Ion:105 Resp: 619944

Ion Ratio Lower Upper

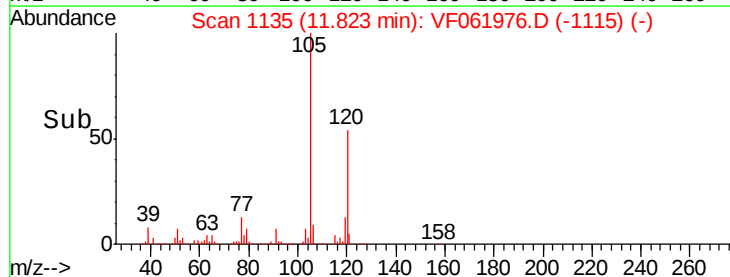
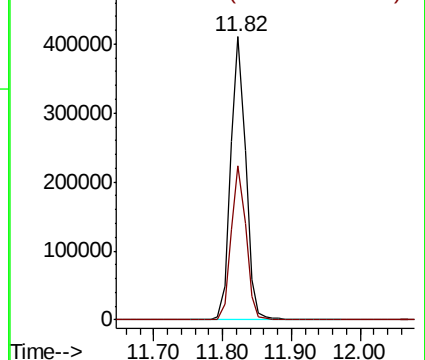
105 100

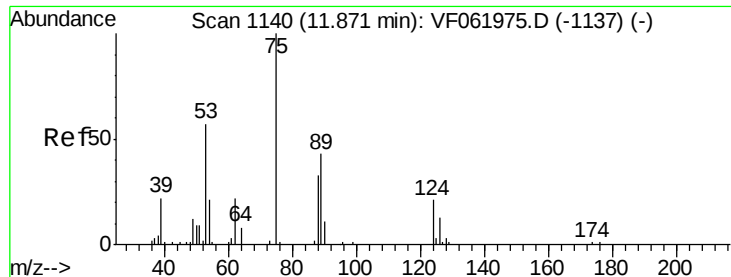
120 54.2 26.6 79.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 85.172 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

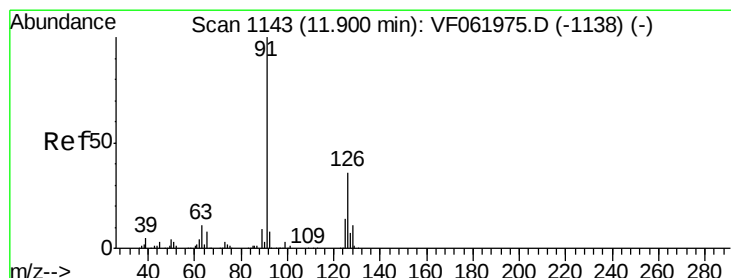
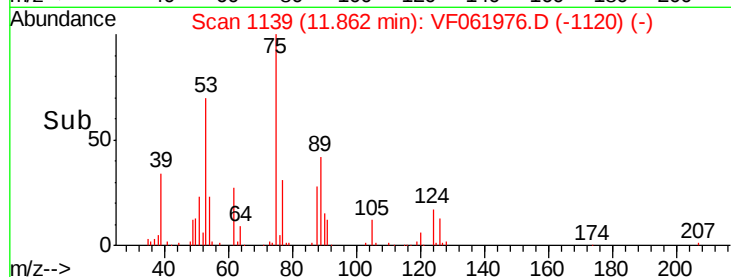
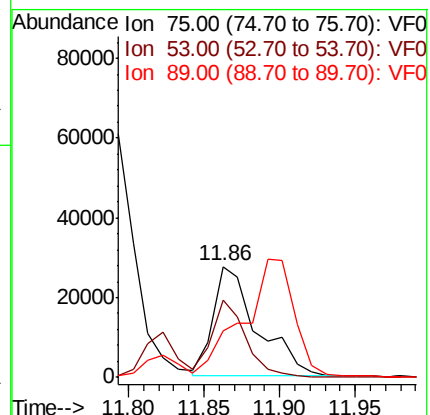
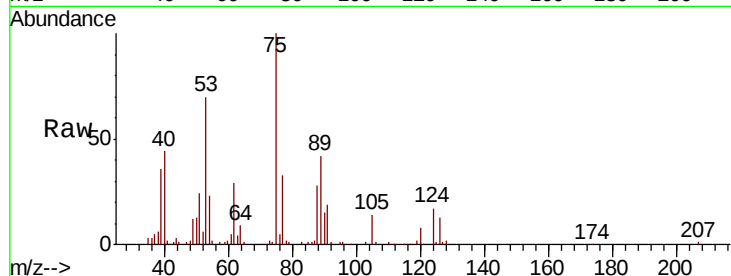
Tot Ion: 75 Resp: 55861

Ion Ratio Lower Upper

75 100

53 69.8 49.0 73.6

89 42.3 37.1 55.7



#82

4-Chlorotoluene

Concen: 61.293 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF061976.D

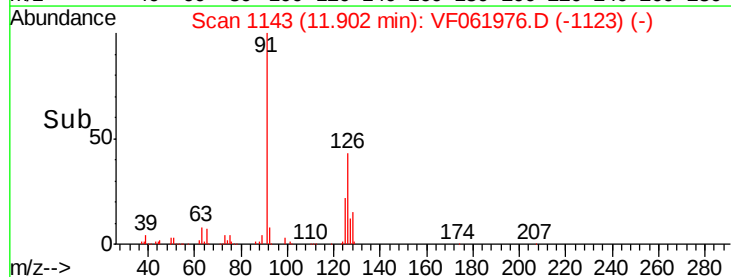
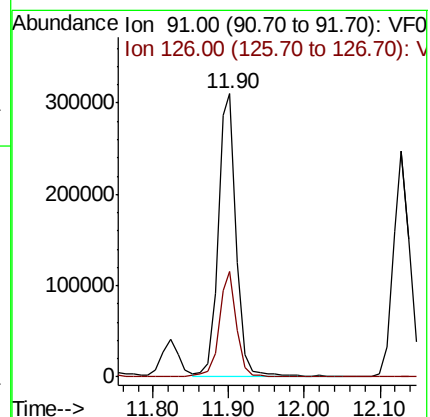
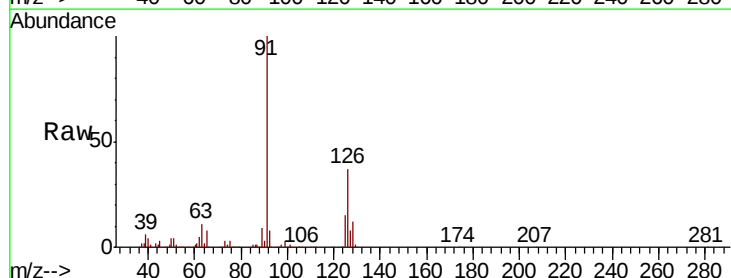
Acq: 16 Mar 2019 13:22

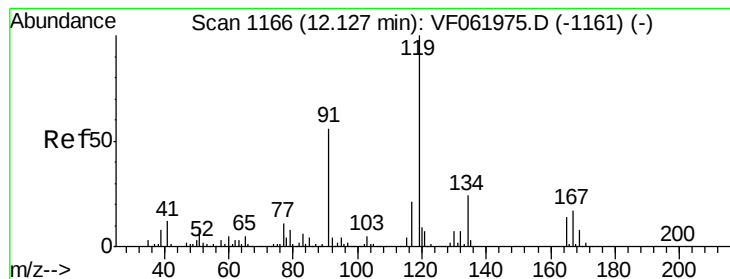
Tgt Ion: 91 Resp: 516738

Ion Ratio Lower Upper

91 100

126 37.1 18.1 54.1





#83

tert-Butylbenzene

Concen: 62.981 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampled :

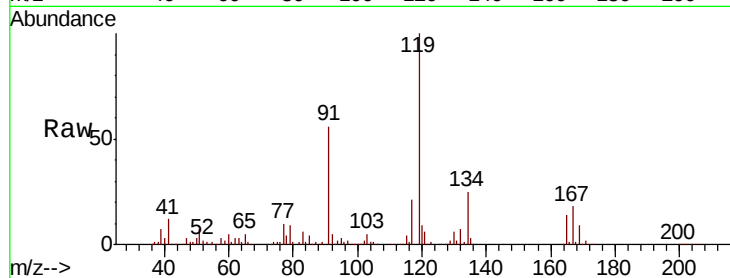
Tot Ion:119 Resp: 683418

Ion Ratio Lower Upper

119 100

91 55.6 27.9 83.6

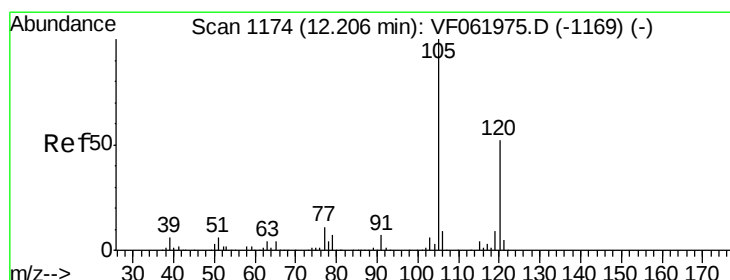
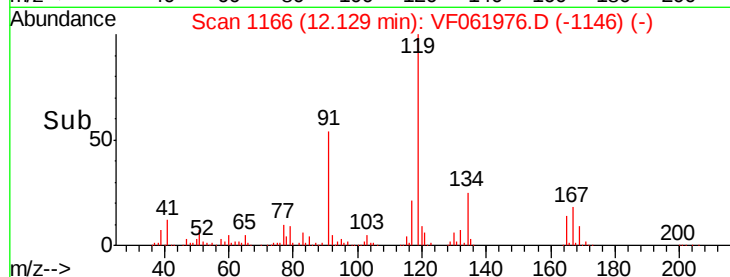
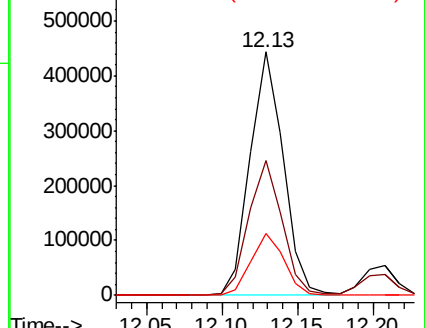
134 25.5 12.3 36.8



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: 60.763 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF061976.D

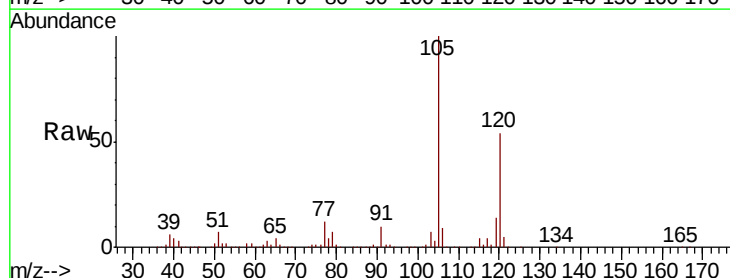
Acq: 16 Mar 2019 13:22

Tgt Ion:105 Resp: 631494

Ion Ratio Lower Upper

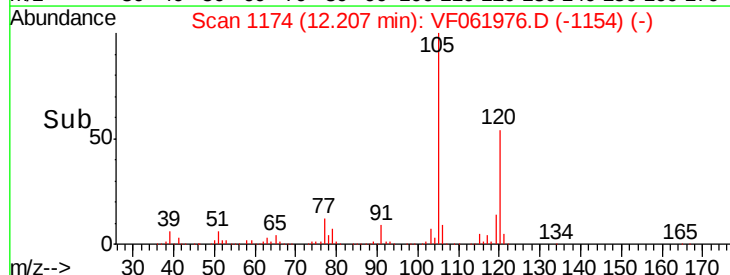
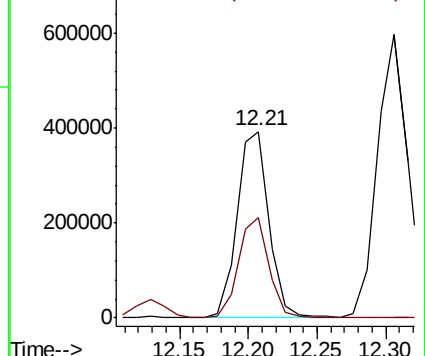
105 100

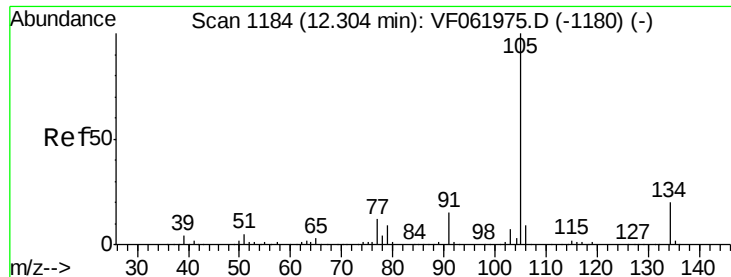
120 53.8 25.9 77.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 62.480 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

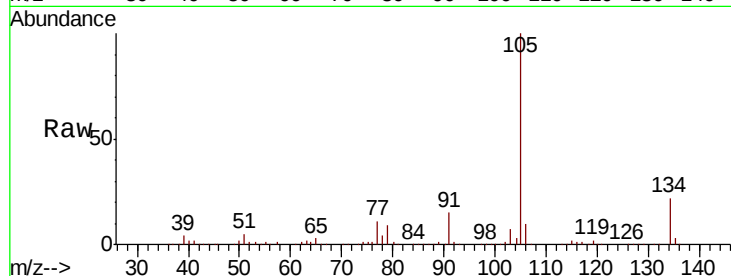
ClientSampleId :

Tot Ion:105 Resp: 916013

Ion Ratio Lower Upper

105 100

134 21.9 10.0 29.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

600000

400000

200000

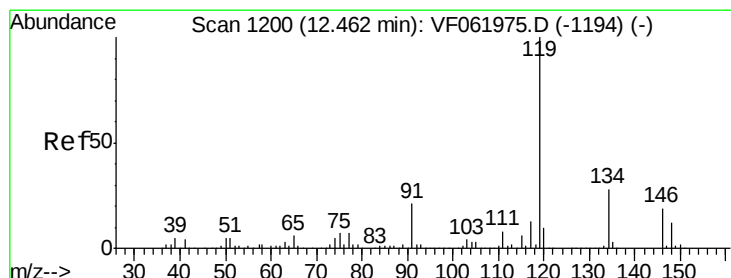
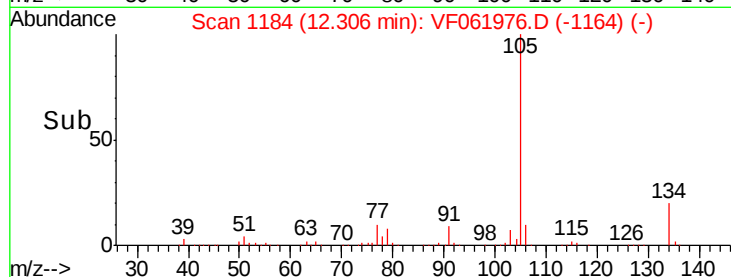
0

12.31

12.30

12.40

Time-->



#86

p-Isopropyltoluene

Concen: 61.578 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

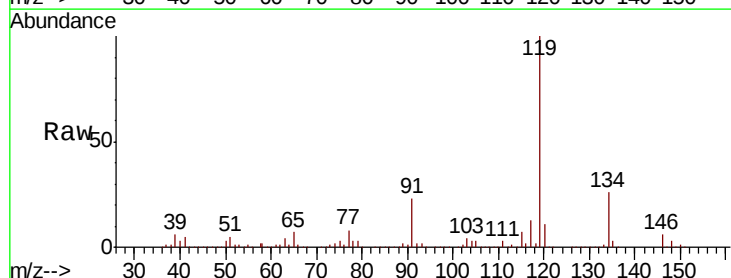
Tgt Ion:119 Resp: 753315

Ion Ratio Lower Upper

119 100

134 26.2 13.9 41.7

91 23.1 10.4 31.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

600000

400000

200000

0

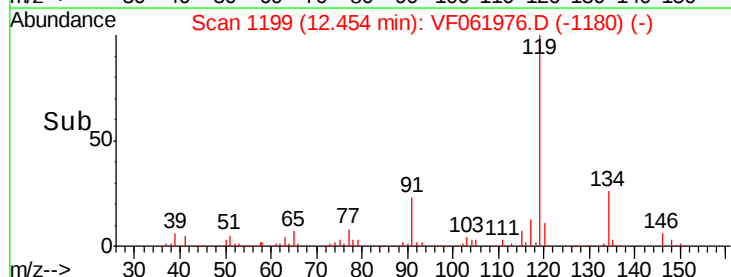
12.45

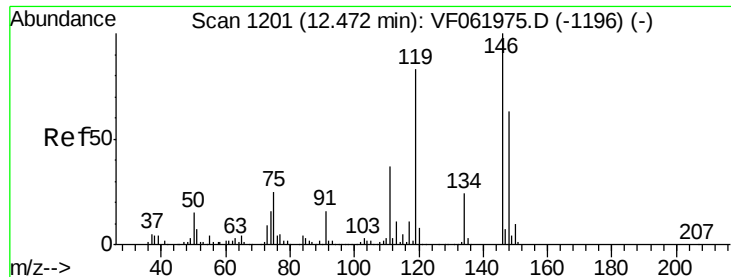
12.40

12.50

12.60

Time-->

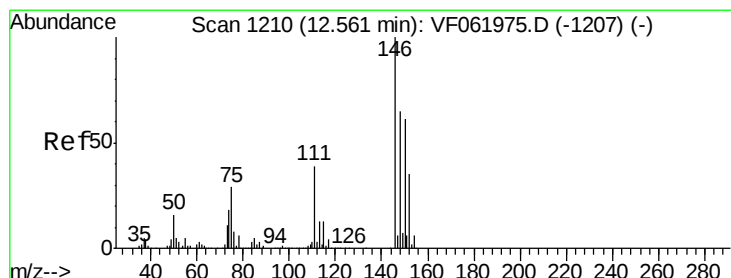
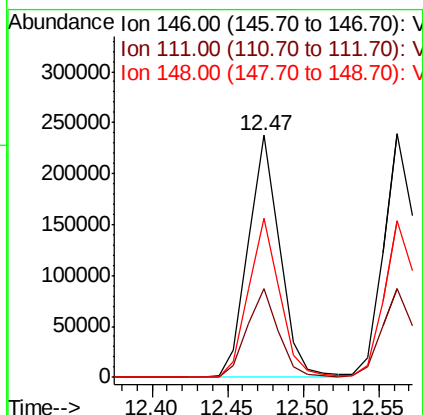
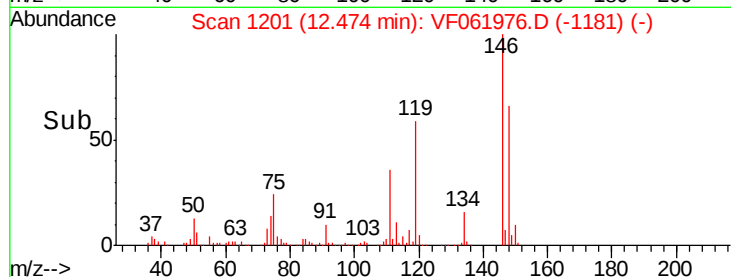
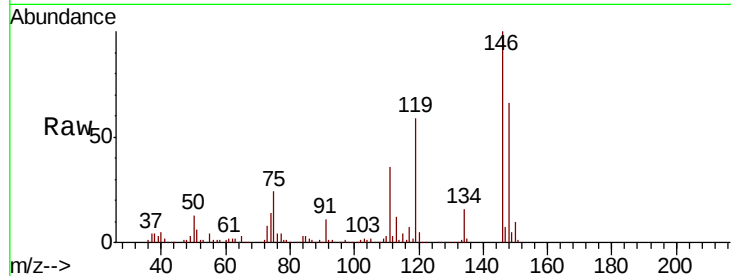




#87
 1,3-Dichlorobenzene
 Concen: 59.787 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

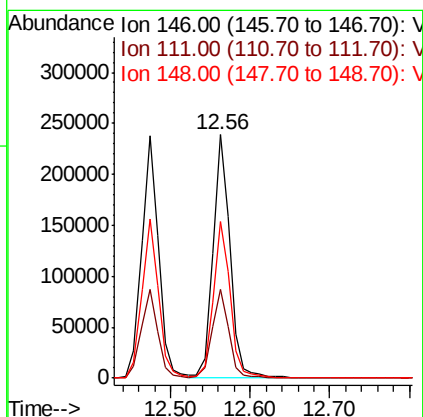
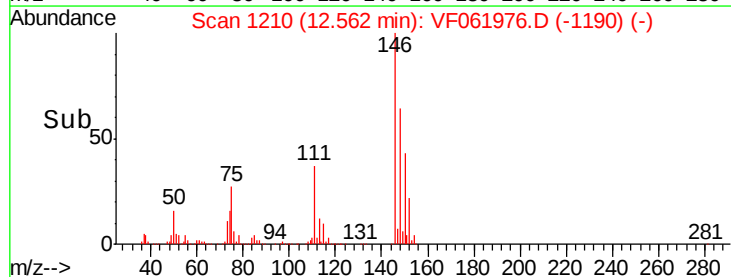
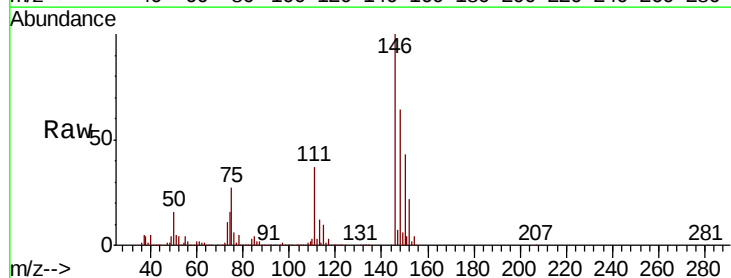
Instrument :
 MSVOA_F
 ClientSampleId :

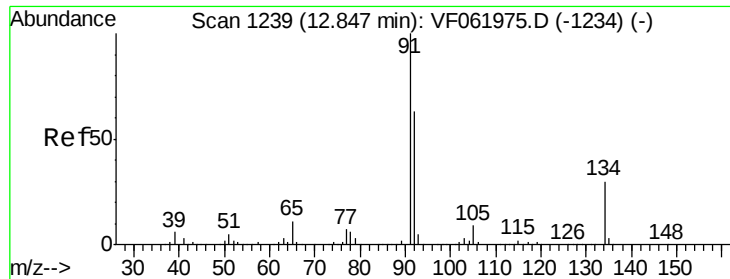
Tot Ion:146 Resp: 349534
 Ion Ratio Lower Upper
 146 100
 111 36.5 18.6 55.8
 148 65.9 31.3 93.9



#88
 1,4-Dichlorobenzene
 Concen: 64.073 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Tgt Ion:146 Resp: 360543
 Ion Ratio Lower Upper
 146 100
 111 36.7 19.4 58.1
 148 64.5 32.4 97.0

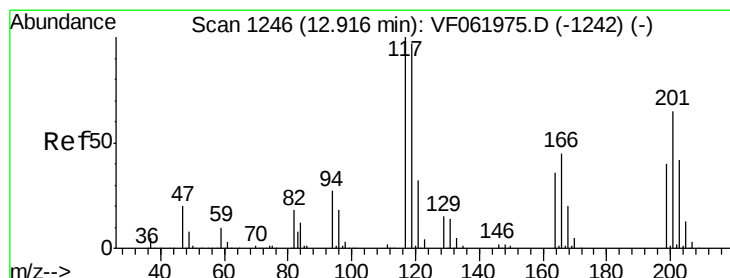
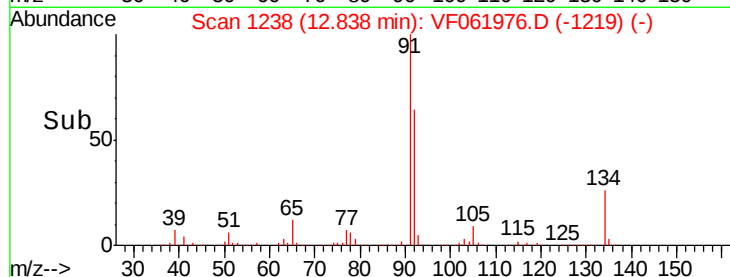
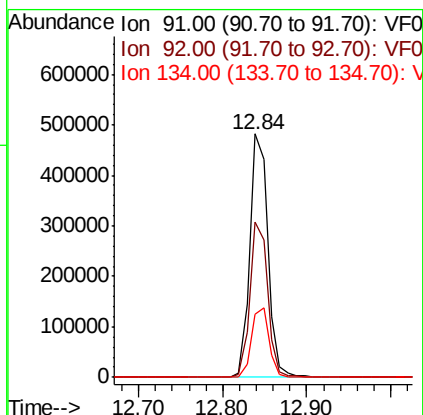
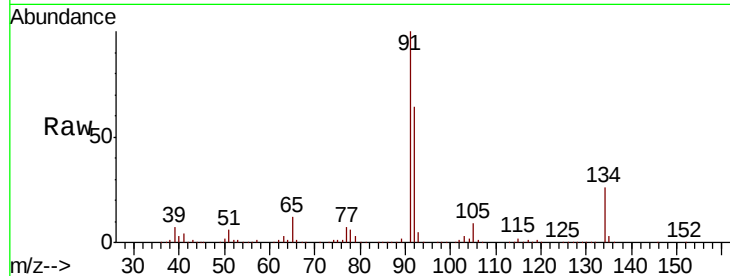




#89
n-Butylbenzene
Concen: 63.016 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

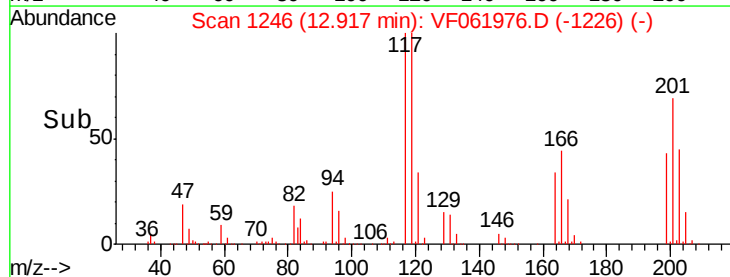
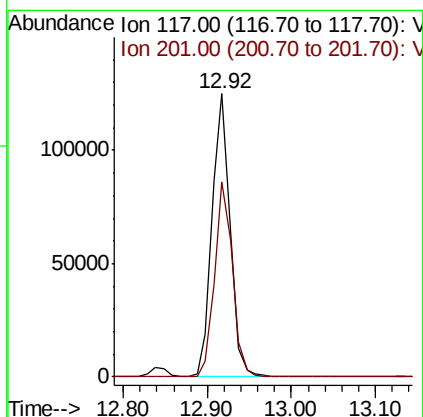
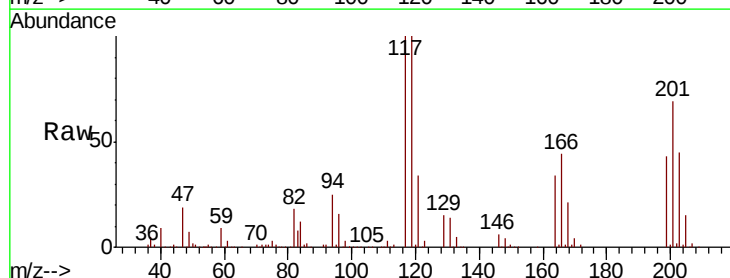
Instrument :
MSVOA_F
ClientSampleId :

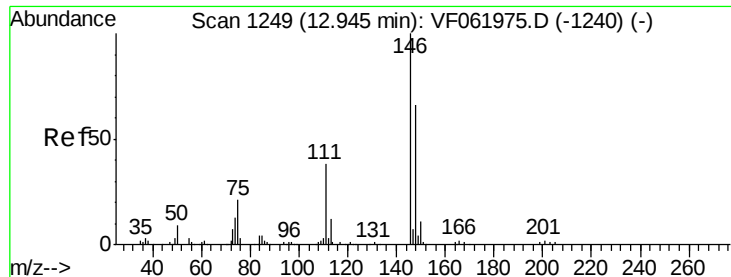
Tot Ion: 91 Resp: 724401
Ion Ratio Lower Upper
91 100
92 63.5 31.7 95.1
134 26.1 15.1 45.3



#90
Hexachloroethane
Concen: 66.697 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.00 min
Lab File: VF061976.D
Acq: 16 Mar 2019 13:22

Tgt Ion: 117 Resp: 186205
Ion Ratio Lower Upper
117 100
201 69.0 32.5 97.5

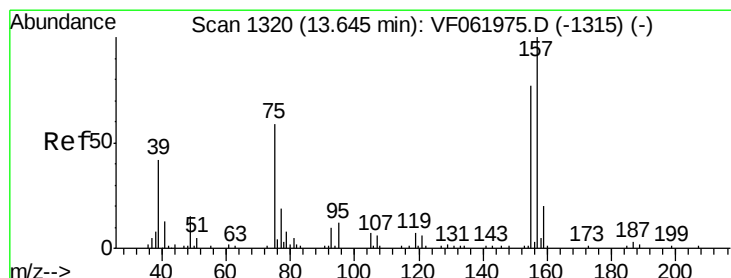
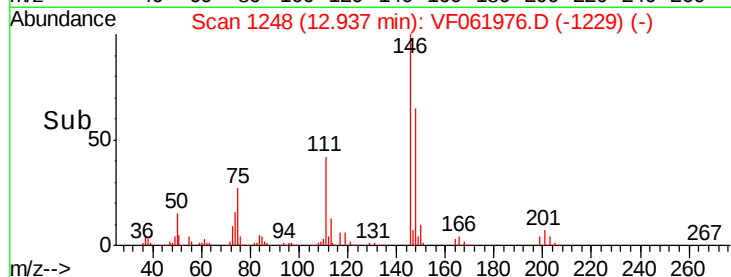
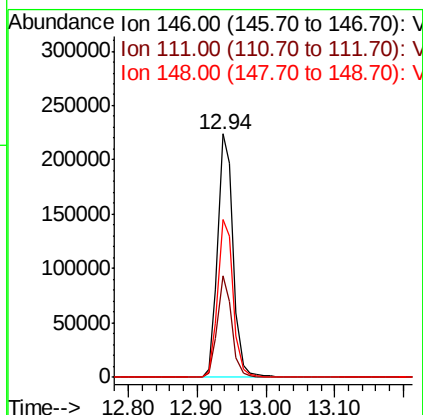
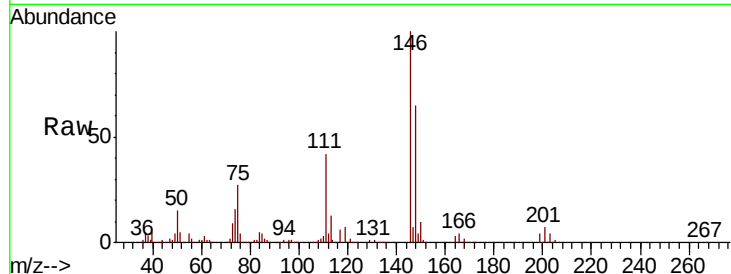




#91
 1,2-Dichlorobenzene
 Concen: 64.394 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

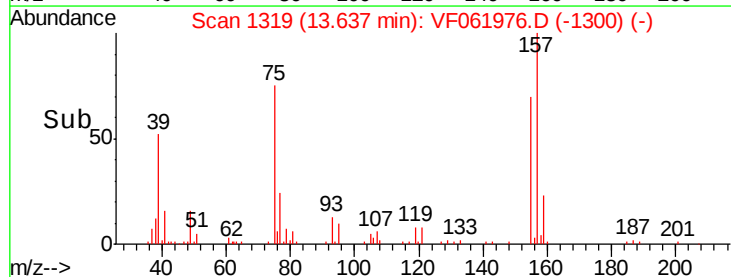
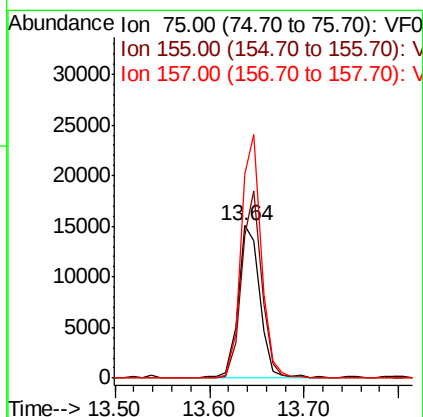
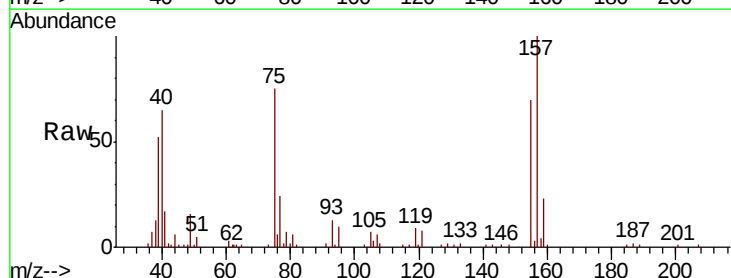
Instrument :
 MSVOA_F
 ClientSampleId :

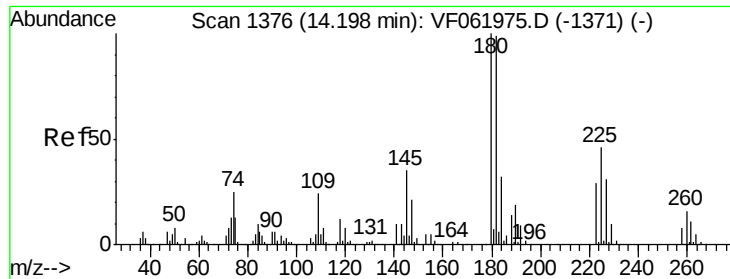
Tot Ion:146 Resp: 348681
 Ion Ratio Lower Upper
 146 100
 111 41.9 18.9 56.5
 148 64.7 32.9 98.6



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 70.529 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Tgt Ion: 75 Resp: 23996
 Ion Ratio Lower Upper
 75 100
 155 93.7 65.0 195.1
 157 133.9 84.7 254.0

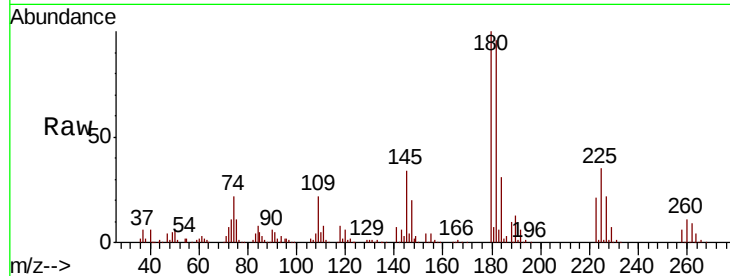




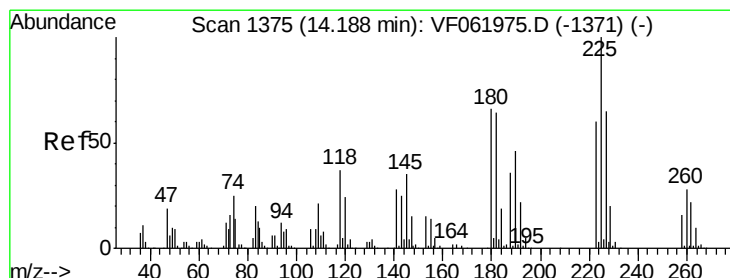
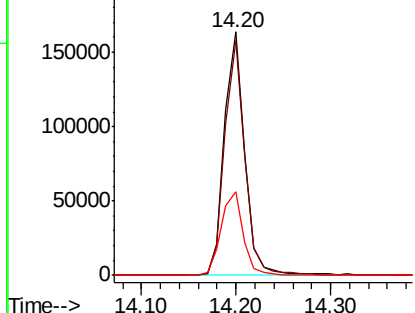
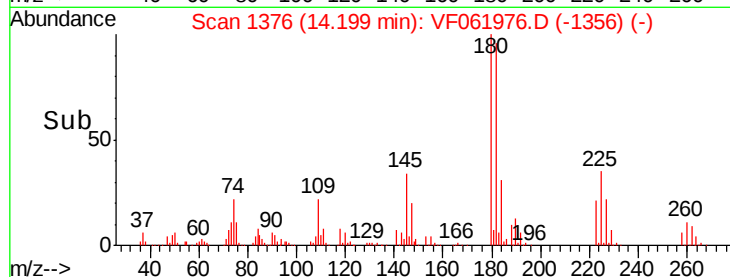
#93
 1,2,4-Trichlorobenzene
 Concen: 64.814 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:180 Resp: 244392
 Ion Ratio Lower Upper
 180 100
 182 96.4 49.6 149.0
 145 34.1 17.5 52.5

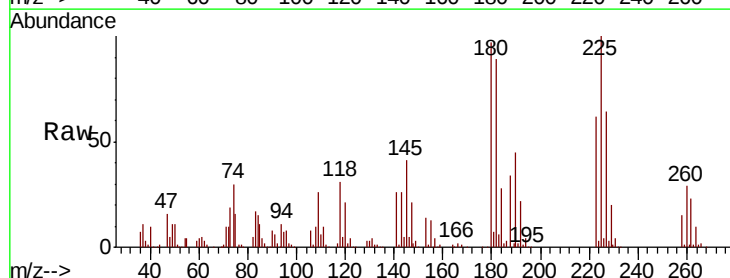


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

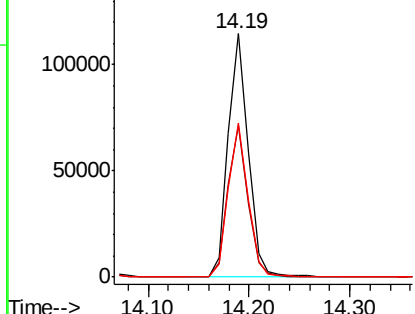
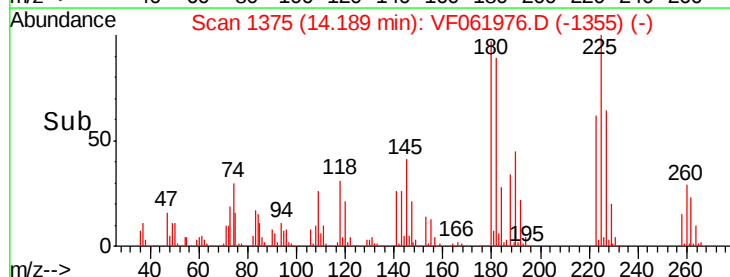


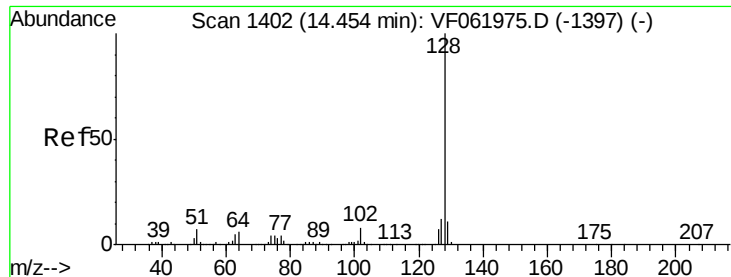
#94
 Hexachlorobutadiene
 Concen: 63.368 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061976.D
 Acq: 16 Mar 2019 13:22

Tgt Ion:225 Resp: 158624
 Ion Ratio Lower Upper
 225 100
 223 62.4 29.9 89.7
 227 63.5 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: 71.976 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

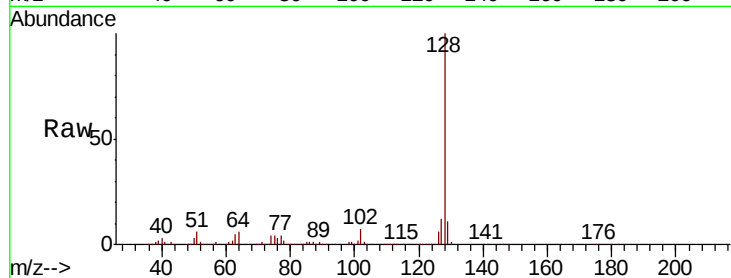
Tot Ion:128 Resp: 488114

Ion Ratio Lower Upper

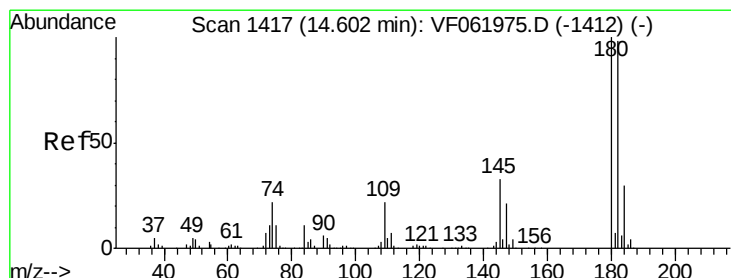
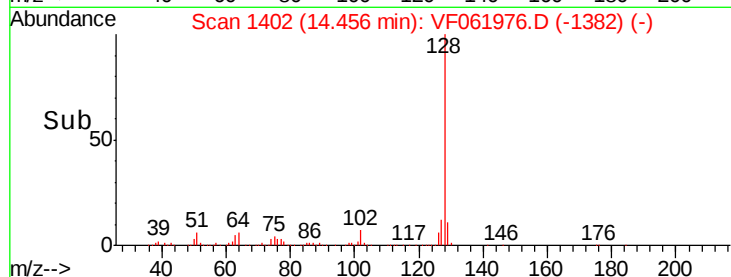
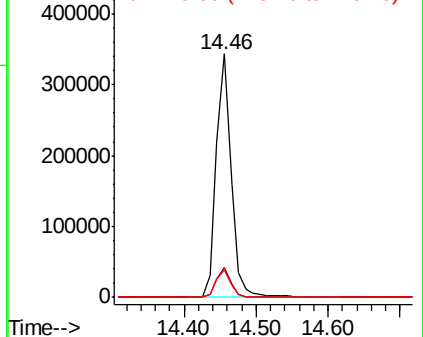
128 100

127 12.2 9.3 13.9

129 11.1 9.1 13.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 69.638 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VF061976.D

Acq: 16 Mar 2019 13:22

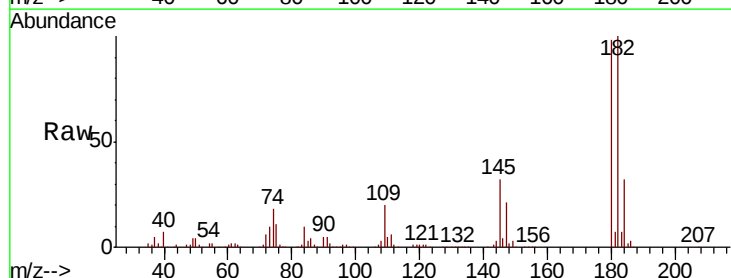
Tgt Ion:180 Resp: 241577

Ion Ratio Lower Upper

180 100

182 102.1 48.9 146.8

145 32.8 16.7 50.1



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

