

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052419\
 Data File : VF062741.D
 Acq On : 24 May 2019 12:24
 Operator : FY/SY
 Sample : VF0524SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

Quant Time: May 24 23:01:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	278455	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	463465	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	328189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	157278	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.05	65	83496	42.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.86%	
35) Dibromofluoromethane	4.32	113	159852	45.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.14%	
50) Toluene-d8	7.72	98	372871	44.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.08%	
62) 4-Bromofluorobenzene	11.50	95	134198	41.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	84133	22.202	ug/l	99
3) Chloromethane	1.13	50	75030	21.504	ug/l	100
4) Vinyl Chloride	1.18	62	73418	22.859	ug/l	94
5) Bromomethane	1.37	94	39834	22.671	ug/l	83
6) Chloroethane	1.43	64	31056	26.328	ug/l #	86
7) Trichlorofluoromethane	1.54	101	119980	27.822	ug/l	91
8) Diethyl Ether	1.72	74	17705	20.724	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.89	101	68894	25.089	ug/l	96
10) Methyl Iodide	1.97	142	118905	22.043	ug/l	96
11) Tert butyl alcohol	2.71	59	12614	97.099	ug/l #	79
12) 1,1-Dichloroethene	1.85	96	59173	23.656	ug/l	99
13) Acrolein	2.10	56	12327	90.903	ug/l	96
14) Allyl chloride	2.21	41	62415	27.569	ug/l	96
15) Acrylonitrile	3.10	53	34778	94.905	ug/l	97
16) Acetone	2.28	43	4304	8.431	ug/l	93
17) Carbon Disulfide	1.89	76	185431	25.010	ug/l	99
18) Methyl Acetate	2.46	43	18604	23.191	ug/l	95
19) Methyl tert-butyl Ether	2.56	73	86466	19.336	ug/l	96
20) Methylene Chloride	2.31	84	55550	21.710	ug/l	90
21) trans-1,2-Dichloroethene	2.43	96	58293	23.842	ug/l	92
22) Diisopropyl ether	2.95	45	107730	19.294	ug/l	98
23) Vinyl Acetate	3.36	43	306718	81.430	ug/l	96
24) 1,1-Dichloroethane	3.03	63	93081	22.724	ug/l	97
25) 2-Butanone	4.53	43	130188	119.368	ug/l	99
26) 2,2-Dichloropropane	3.79	77	75058	32.025	ug/l	87
27) cis-1,2-Dichloroethene	3.66	96	87084	21.653	ug/l	97
28) Bromochloromethane	3.91	49	45037	19.604	ug/l	87
29) Tetrahydrofuran	4.29	42	37735	85.500	ug/l	96
30) Chloroform	4.06	83	121582	21.378	ug/l	97
31) Cyclohexane	3.90	56	127285	23.143	ug/l	97
32) 1,1,1-Trichloroethane	4.31	97	101902	26.980	ug/l	96
36) 1,1-Dichloropropene	4.49	75	104436	21.991	ug/l	94
37) Ethyl Acetate	4.31	43	30234	15.592	ug/l #	35
38) Carbon Tetrachloride	4.20	117	92940	26.021	ug/l	95

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 Misc : 5.00g/5mL/MSVOA F/SOIL
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Quant Time: May 24 23:01:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	138979	24.321	ug/l	99
40) Benzene	4.84	78	280112	21.651	ug/l	100
41) Methacrylonitrile	4.95	41	18053	17.758	ug/l #	93
42) 1,2-Dichloroethane	5.15	62	46751	18.121	ug/l	88
43) Isopropyl Acetate	7.13	43	40731	16.214	ug/l #	97
44) Trichloroethene	5.70	130	86025	23.658	ug/l	99
45) 1,2-Dichloropropane	6.42	63	66266	20.290	ug/l	92
46) Dibromomethane	6.27	93	37376	19.802	ug/l #	79
47) Bromodichloromethane	6.56	83	75123	19.172	ug/l #	98
48) Methyl methacrylate	6.89	41	20167	15.359	ug/l #	80
49) 1,4-Dioxane	6.89	88	6889	409.636	ug/l #	81
51) 4-Methyl-2-Pentanone	8.41	43	137903	80.310	ug/l	91
52) Toluene	7.79	92	136709	20.148	ug/l	95
53) t-1,3-Dichloropropene	8.43	75	59254	18.484	ug/l	96
54) cis-1,3-Dichloropropene	7.47	75	81783	18.225	ug/l #	92
55) 1,1,2-Trichloroethane	8.64	97	38438	19.133	ug/l	96
56) Ethyl methacrylate	8.76	69	36068	15.069	ug/l	98
57) 1,3-Dichloropropane	9.01	76	62398	18.235	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.46	63	34946	44.856	ug/l	95
59) 2-Hexanone	9.63	43	95431	72.785	ug/l	96
60) Dibromochloromethane	8.87	129	46946	17.929	ug/l	90
61) 1,2-Dibromoethane	9.14	107	39296	18.415	ug/l	96
64) Tetrachloroethene	8.32	164	61293	23.574	ug/l	93
65) Chlorobenzene	9.94	112	144298	22.386	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.07	131	57151	22.086	ug/l	92
67) Ethyl Benzene	10.03	91	257929	23.033	ug/l	93
68) m/p-Xylenes	10.27	106	186542	44.323	ug/l	78
69) o-Xylene	10.82	106	91109	21.017	ug/l	90
70) Styrene	10.90	104	133140	20.207	ug/l	97
71) Bromoform	10.88	173	25256	19.487	ug/l #	92
73) Isopropylbenzene	11.22	105	261033	23.157	ug/l	94
74) N-amyl acetate	11.45	43	49536	13.311	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.77	83	49395	21.442	ug/l	91
76) 1,2,3-Trichloropropane	11.88	75	30139	19.911	ug/l	87
77) Bromobenzene	11.58	156	58950	21.039	ug/l	90
78) n-propylbenzene	11.68	91	333791	25.021	ug/l	93
79) 2-Chlorotoluene	11.80	91	173885	23.128	ug/l	92
80) 1,3,5-Trimethylbenzene	11.90	105	220679	24.415	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.95	75	17807	26.466	ug/l #	83
82) 4-Chlorotoluene	11.98	91	173050	23.341	ug/l	95
83) tert-Butylbenzene	12.20	119	222407	24.253	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	212959	24.343	ug/l	89
85) sec-Butylbenzene	12.37	105	307729	25.005	ug/l	93
86) p-Isopropyltoluene	12.52	119	247134	23.828	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	114232	22.534	ug/l	96
88) 1,4-Dichlorobenzene	12.63	146	110334	23.193	ug/l	97
89) n-Butylbenzene	12.90	91	267170	26.127	ug/l	91
90) Hexachloroethane	12.98	117	57862	23.257	ug/l	73
91) 1,2-Dichlorobenzene	13.00	146	98911	21.889	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.69	75	6209	22.593	ug/l	66

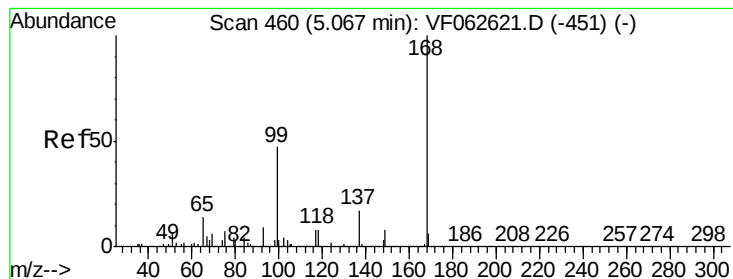
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052419\
 Data File : VF062741.D
 Acq On : 24 May 2019 12:24
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Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

Quant Time: May 24 23:01:58 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	63571	19.654	ug/l	98
94) Hexachlorobutadiene	14.23	225	51930	23.006	ug/l	95
95) Naphthalene	14.50	128	76791	13.068	ug/l	97
96) 1,2,3-Trichlorobenzene	14.64	180	54675	17.846	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

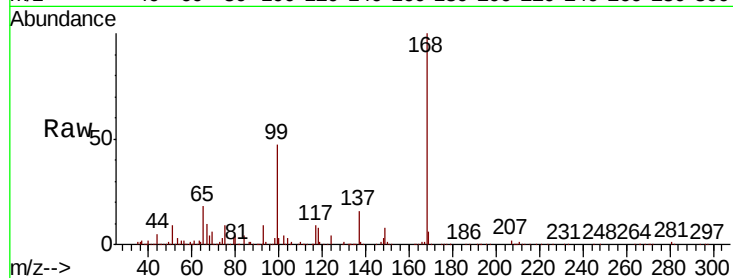
VF0524SBS01

Tot Ion:168 Resp: 278455

Ion Ratio Lower Upper

168 100

99 47.4 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

100000

80000

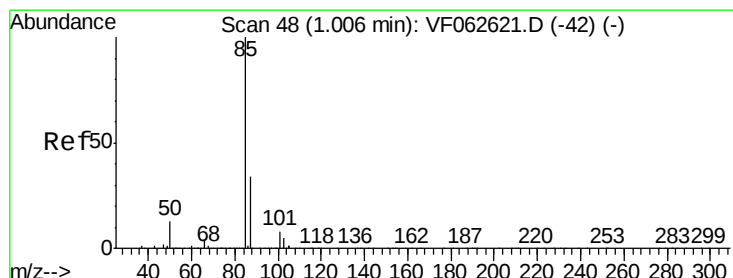
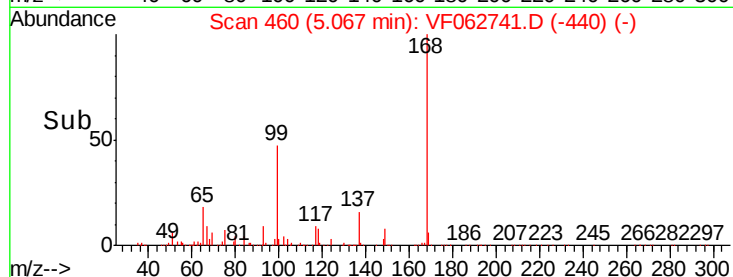
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 22.202 ug/l

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062741.D

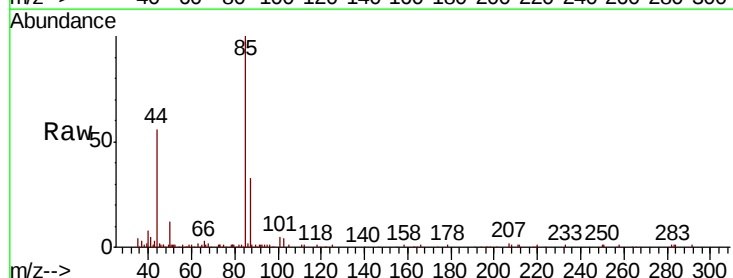
Acq: 24 May 2019 12:24

Tgt Ion: 85 Resp: 84133

Ion Ratio Lower Upper

85 100

87 33.1 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

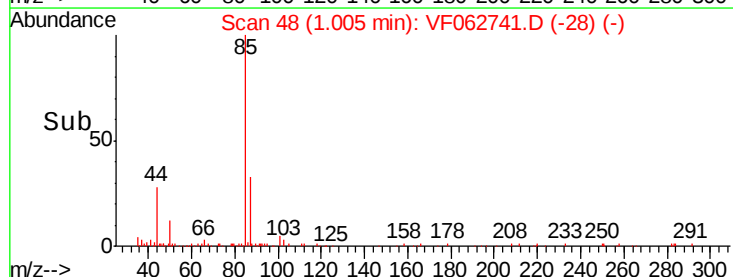
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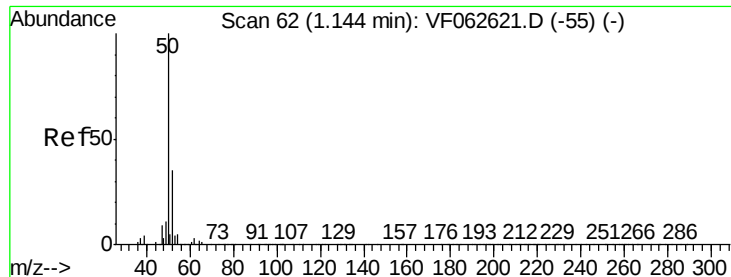
20000

10000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 21.504 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

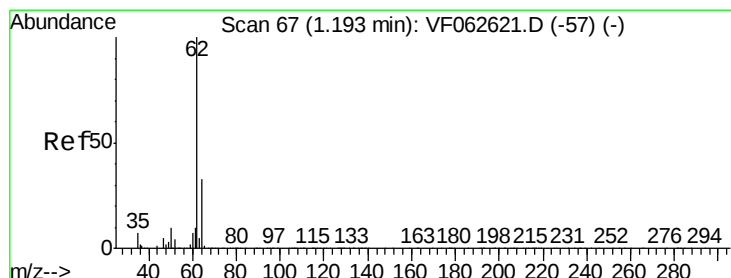
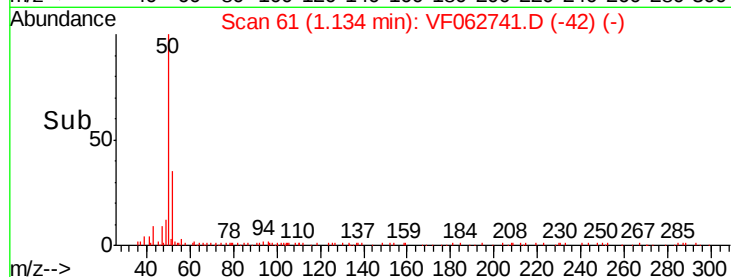
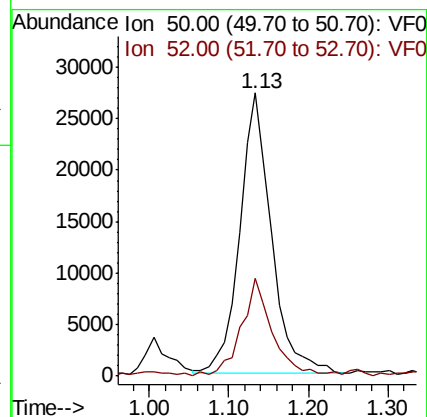
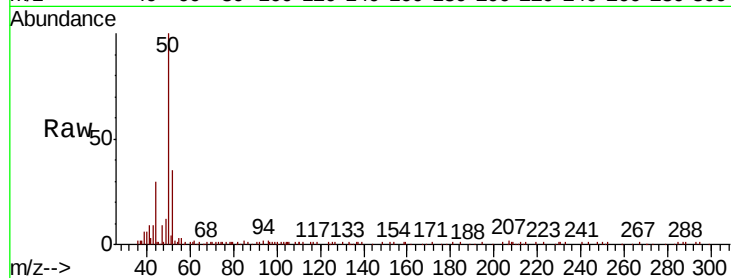
VF0524SBS01

Tot Ion: 50 Resp: 75030

Ion Ratio Lower Upper

50 100

52 34.7 27.5 41.3



#4

Vinyl Chloride

Concen: 22.859 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062741.D

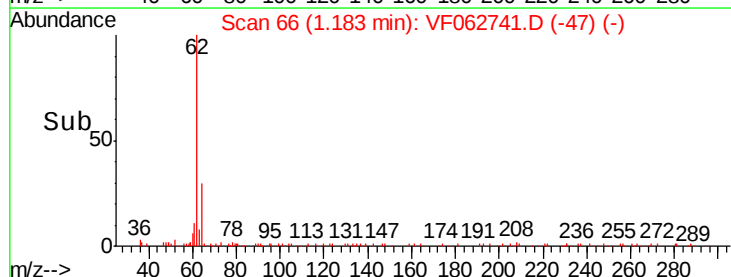
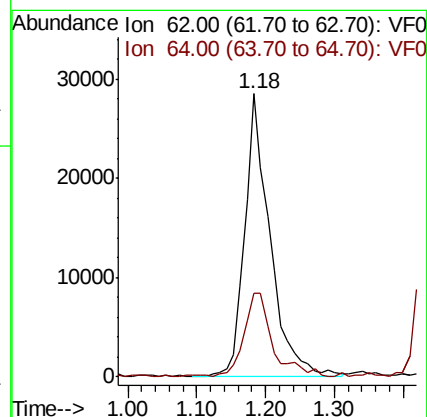
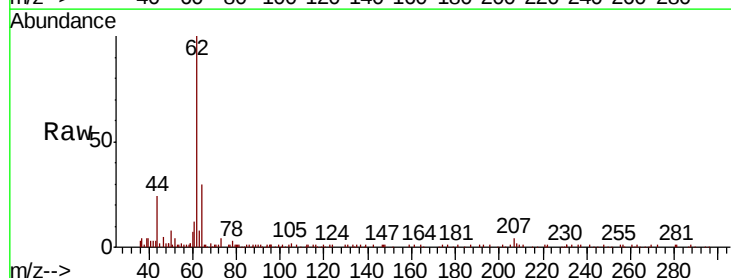
Acq: 24 May 2019 12:24

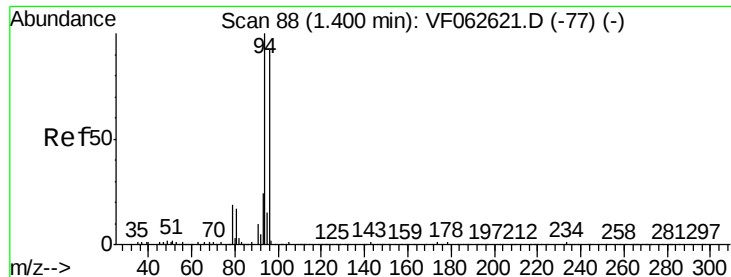
Tgt Ion: 62 Resp: 73418

Ion Ratio Lower Upper

62 100

64 29.7 26.7 40.1





#5

Bromomethane

Concen: 22.671 ug/l

RT: 1.37 min Scan# 85

Delta R.T. -0.03 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

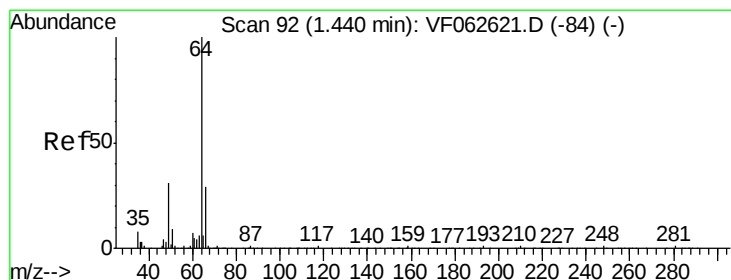
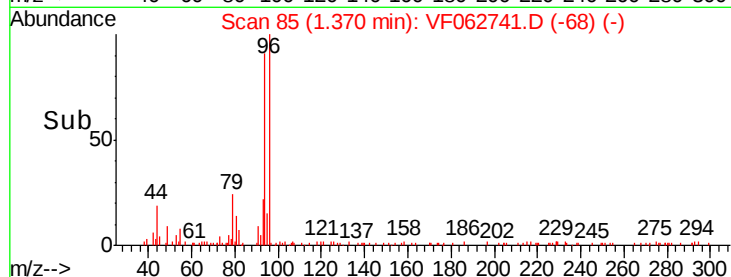
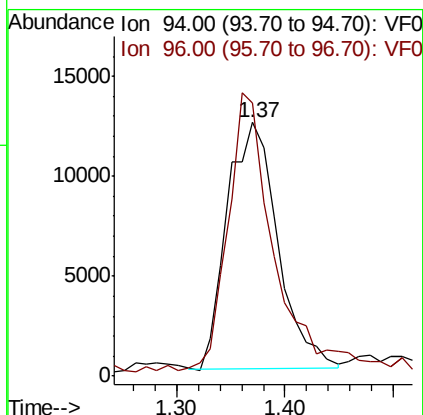
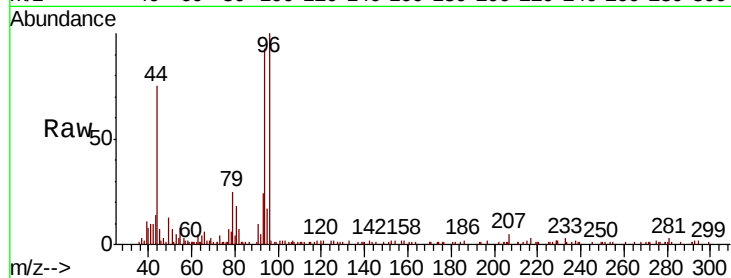
VF0524SBS01

Tot Ion: 94 Resp: 39834

Ion Ratio Lower Upper

94 100

96 107.5 73.2 109.8



#6

Chloroethane

Concen: 26.328 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF062741.D

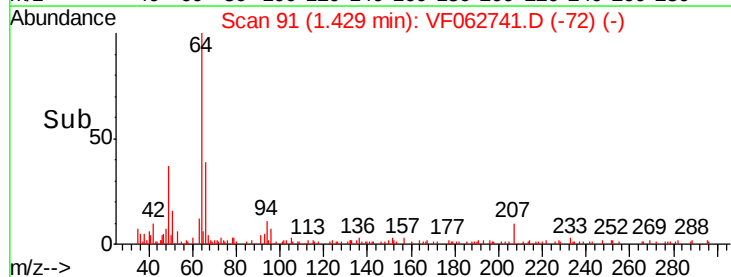
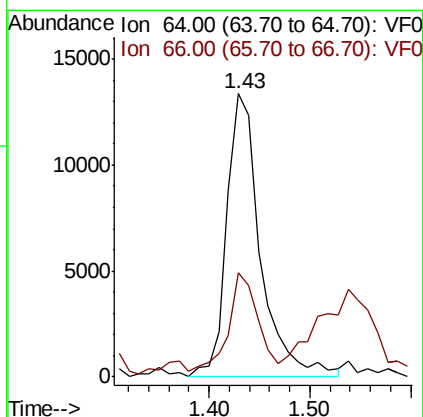
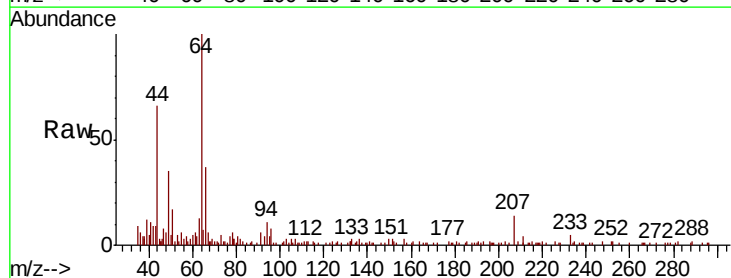
Acq: 24 May 2019 12:24

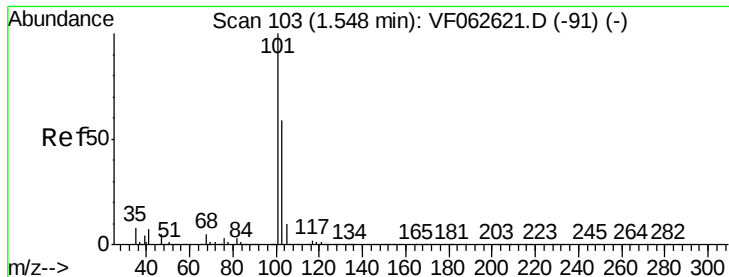
Tgt Ion: 64 Resp: 31056

Ion Ratio Lower Upper

64 100

66 36.8 23.4 35.2#



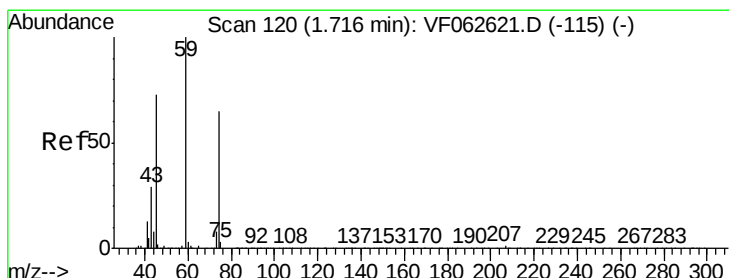
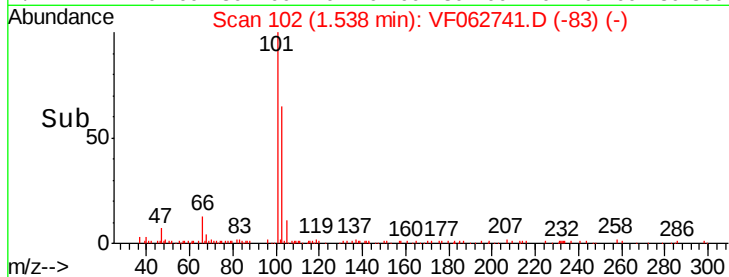
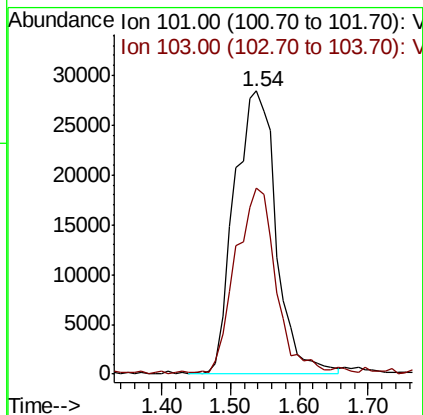
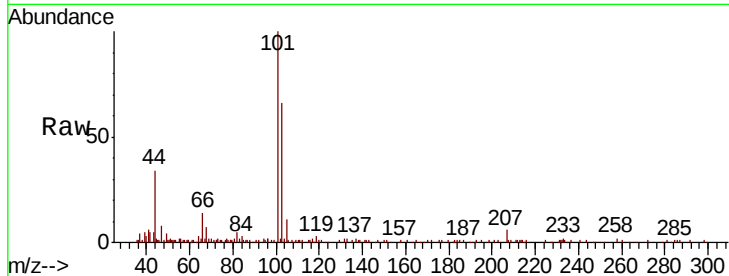


#7

Trichlorofluoromethane
 Concen: 27.822 ug/l
 RT: 1.54 min Scan# 102
 Delta R.T. -0.01 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

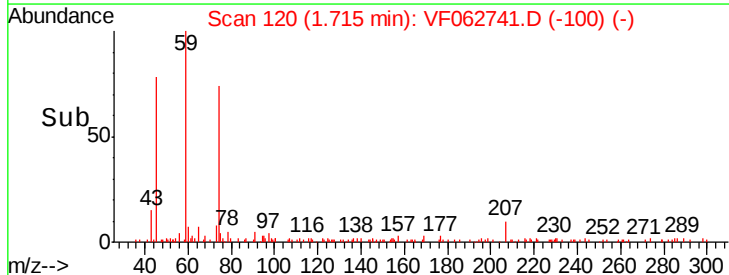
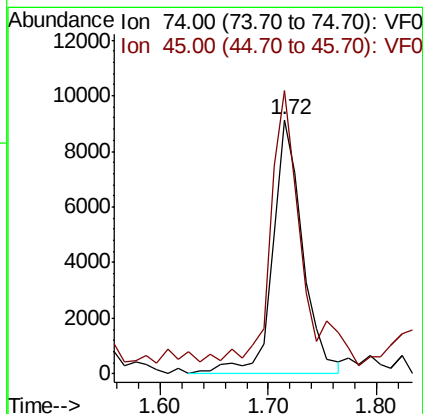
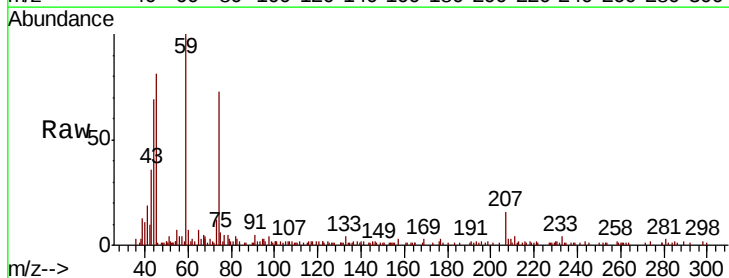
Tot Ion:101 Resp: 119980
 Ion Ratio Lower Upper
 101 100
 103 65.7 47.3 70.9

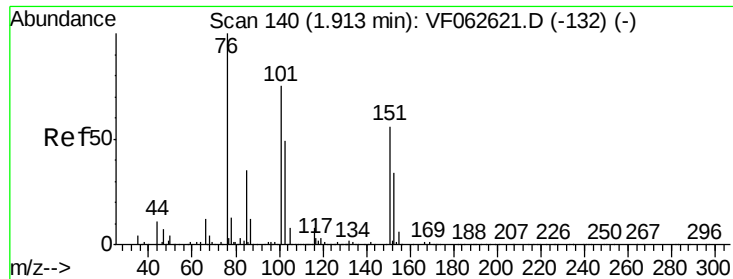


#8

Diethyl Ether
 Concen: 20.724 ug/l
 RT: 1.72 min Scan# 120
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion: 74 Resp: 17705
 Ion Ratio Lower Upper
 74 100
 45 111.2 57.0 170.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.089 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

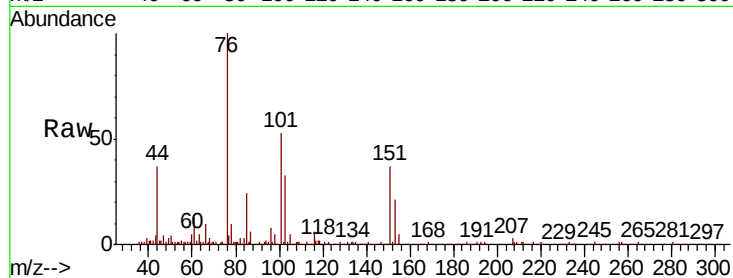
Tot Ion:101 Resp: 68894

Ion Ratio Lower Upper

101 100

85 45.4 37.1 55.7

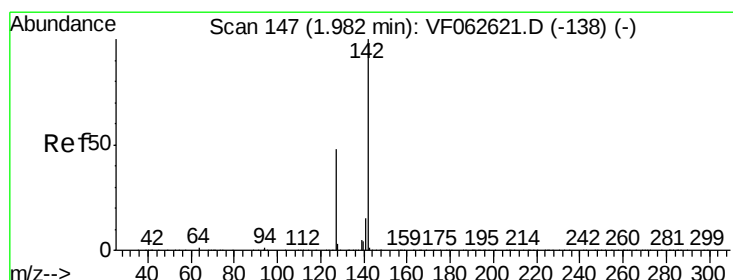
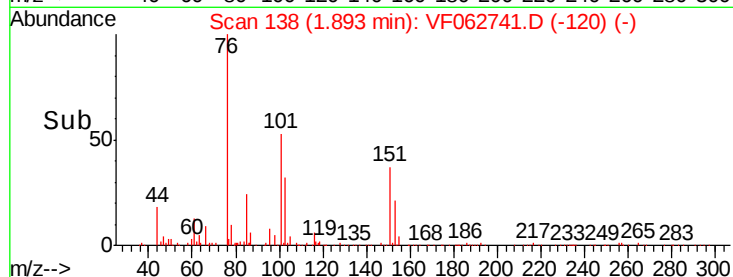
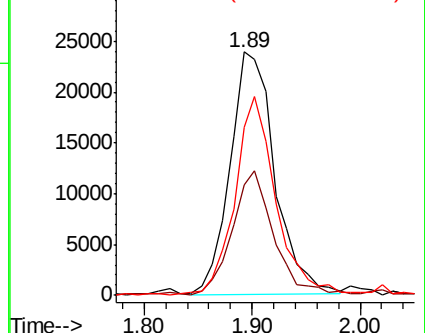
151 69.0 58.8 88.2



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: 22.043 ug/l

RT: 1.97 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

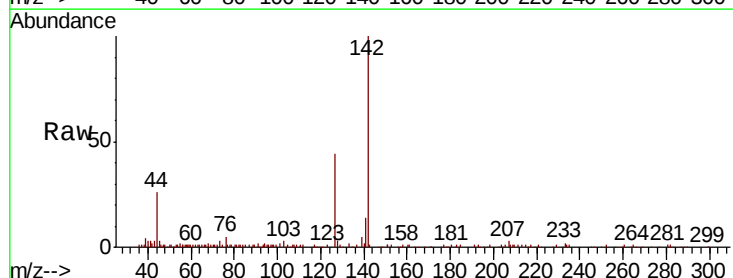
Tgt Ion:142 Resp: 118905

Ion Ratio Lower Upper

142 100

127 44.1 38.1 57.1

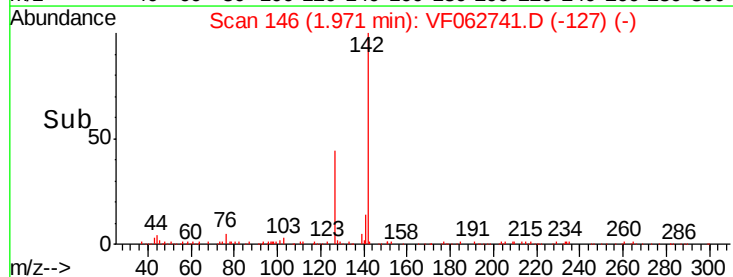
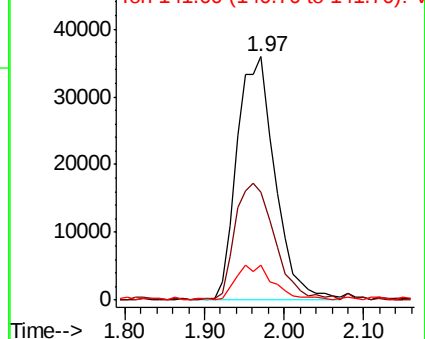
141 14.4 11.7 17.5

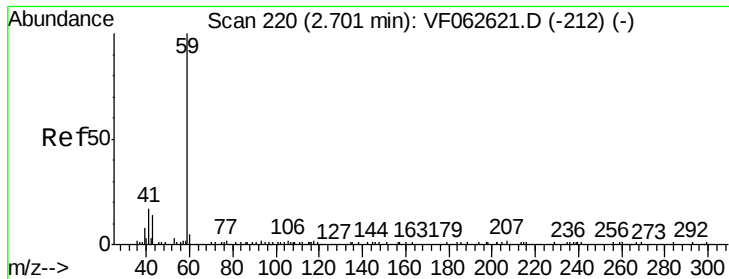


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

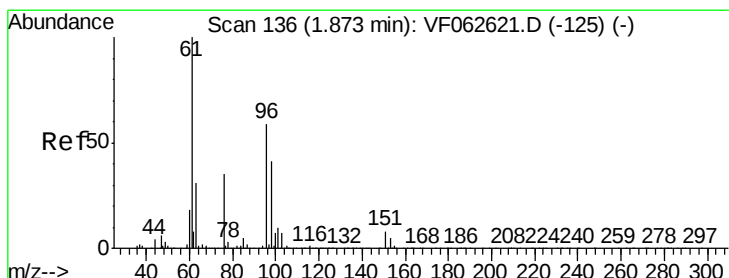
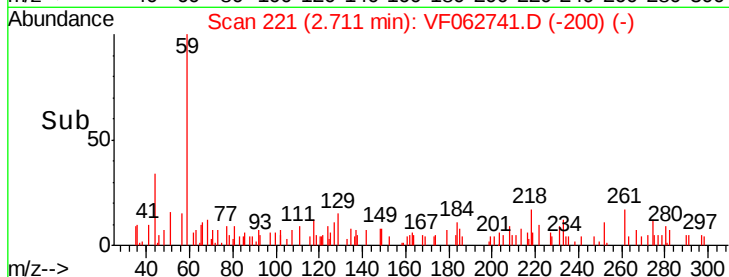
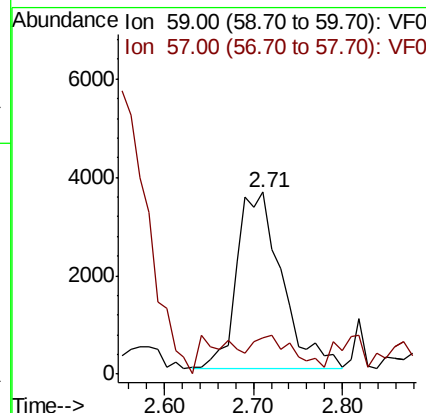
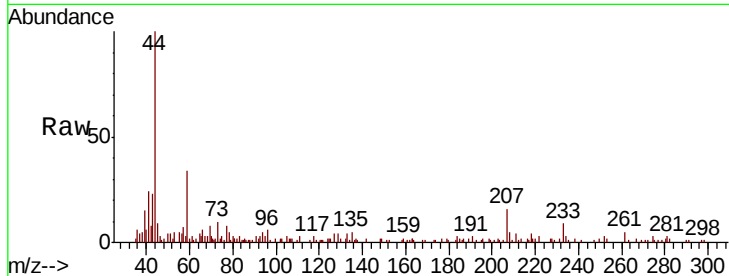




#11
Tert butyl alcohol
Concen: 97.099 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.01 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

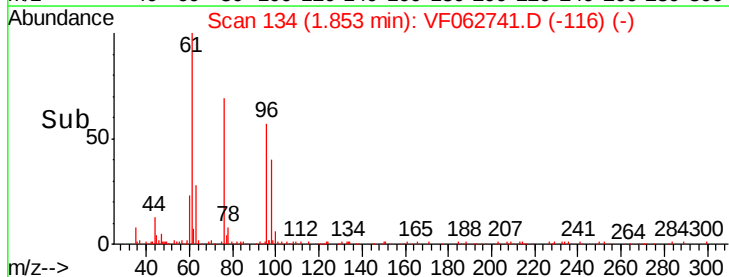
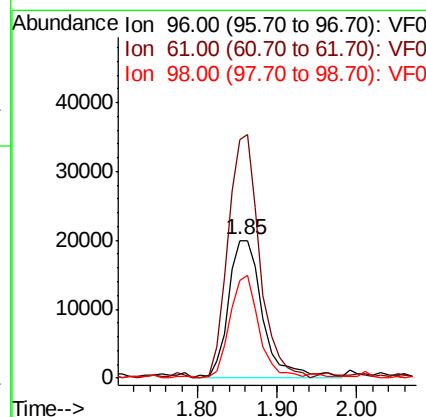
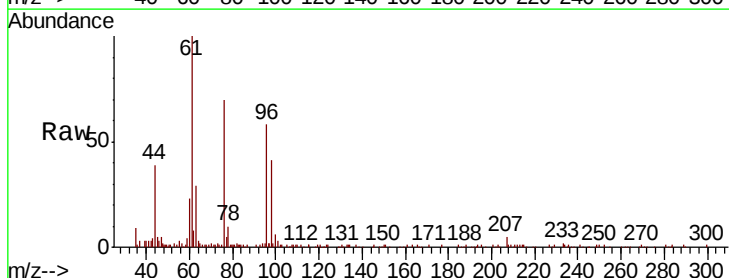
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

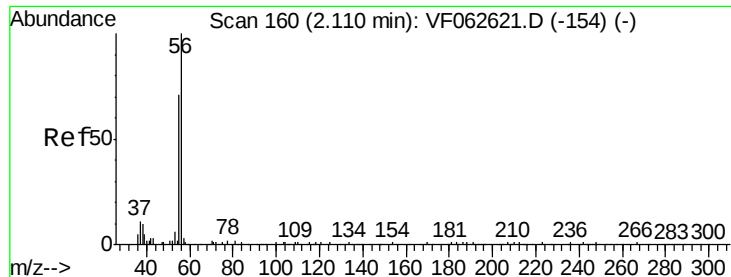
Tot Ion: 59 Resp: 12614
Ion Ratio Lower Upper
59 100
57 19.8 9.3 13.9#



#12
1,1-Dichloroethene
Concen: 23.656 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.02 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion: 96 Resp: 59173
Ion Ratio Lower Upper
96 100
61 167.3 134.3 201.5
98 71.5 55.0 82.6





#13

Acrolein

Concen: 90.903 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

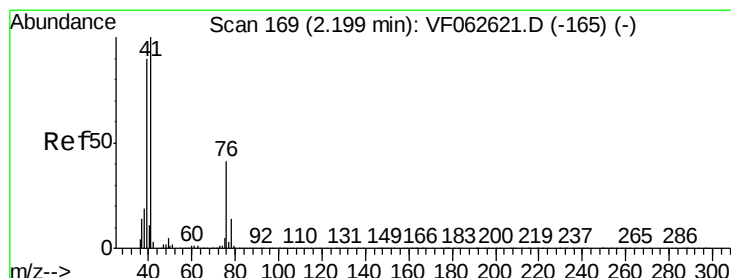
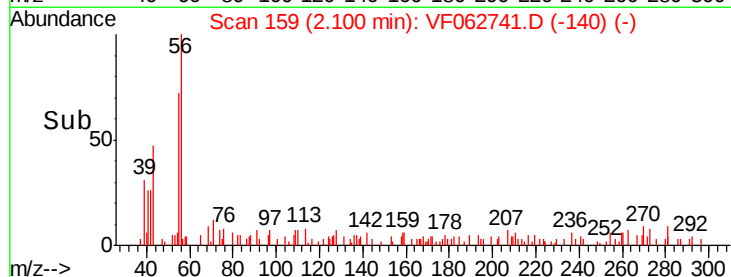
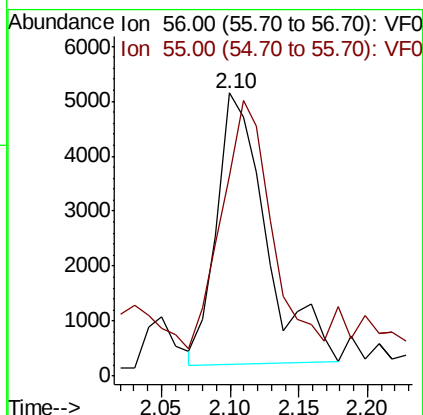
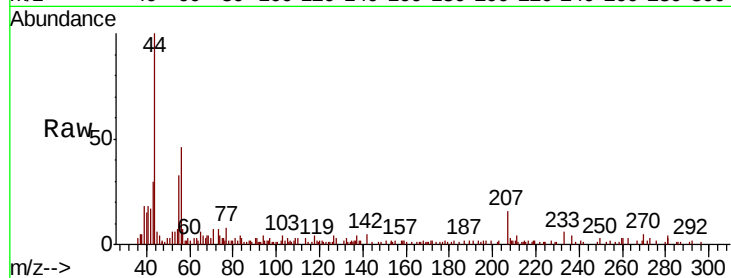
VF0524SBS01

Tot Ion: 56 Resp: 12327

Ion Ratio Lower Upper

56 100

55 70.9 59.4 89.0



#14

Allyl chloride

Concen: 27.569 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

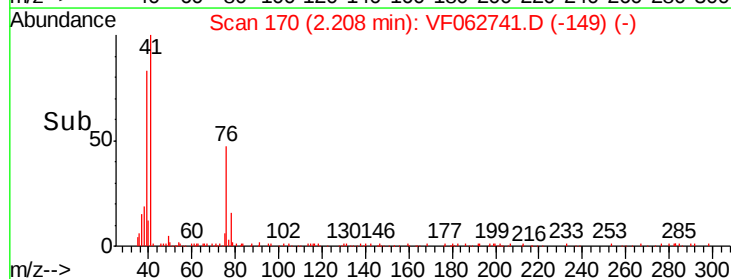
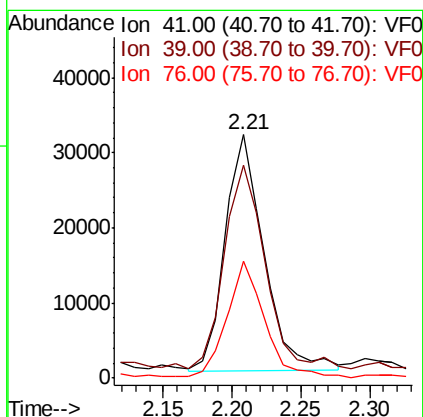
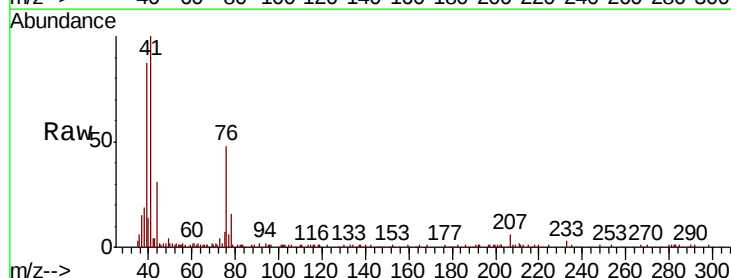
Tgt Ion: 41 Resp: 62415

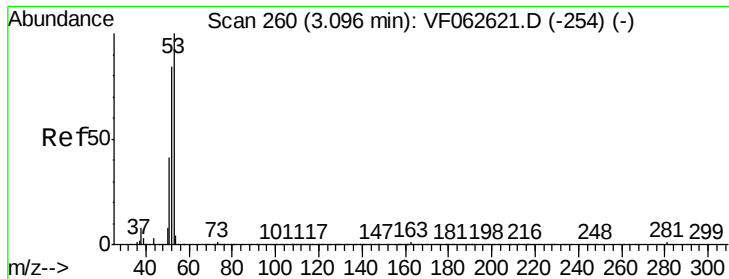
Ion Ratio Lower Upper

41 100

39 87.2 72.0 108.0

76 47.8 34.8 52.2





#15

Acrylonitrile

Concen: 94.905 ug/l

RT: 3.10 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

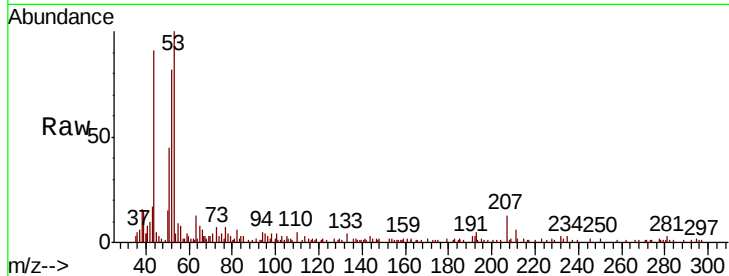
Tot Ion: 53 Resp: 34778

Ion Ratio Lower Upper

53 100

52 82.2 67.3 100.9

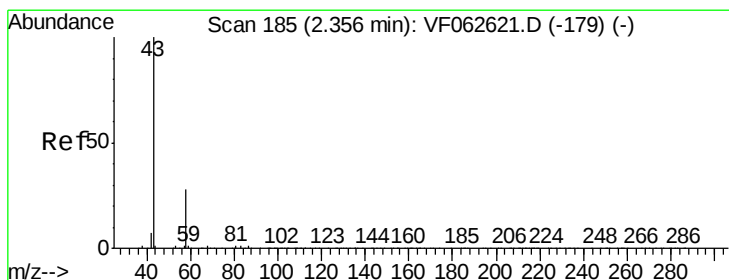
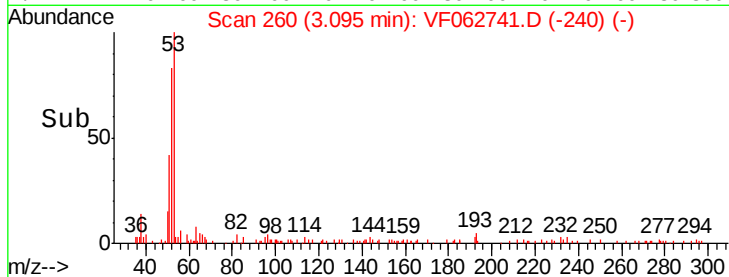
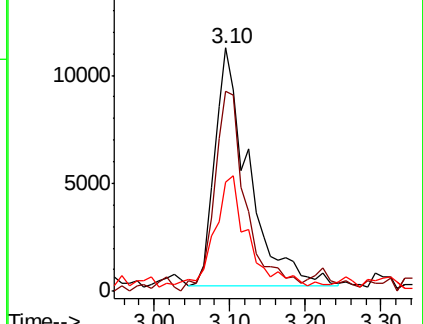
51 44.9 33.0 49.6



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: 8.431 ug/l

RT: 2.28 min Scan# 177

Delta R.T. -0.08 min

Lab File: VF062741.D

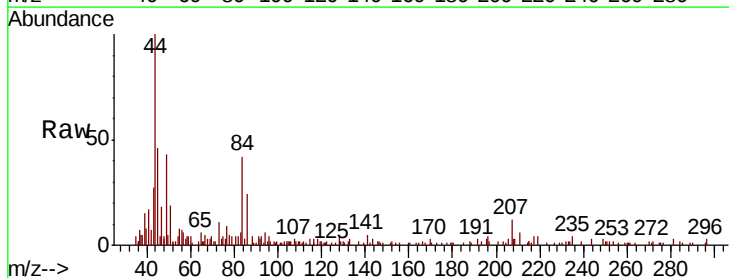
Acq: 24 May 2019 12:24

Tgt Ion: 43 Resp: 4304

Ion Ratio Lower Upper

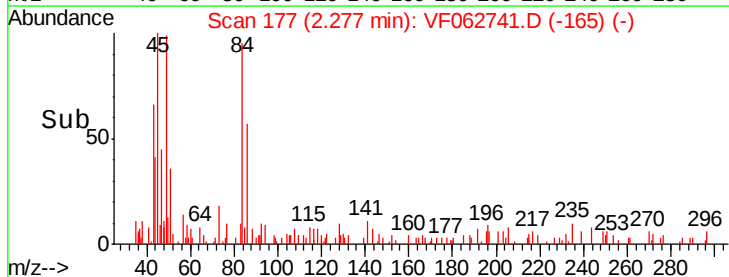
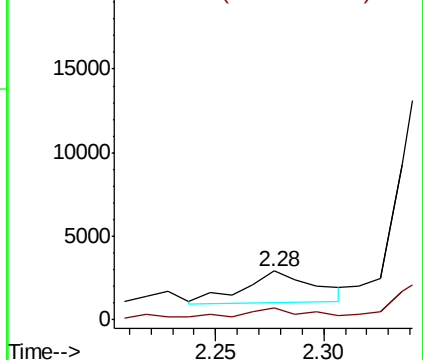
43 100

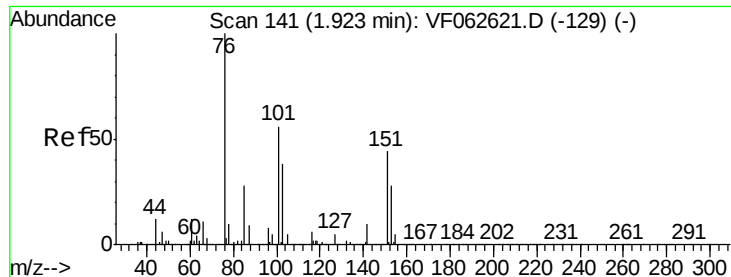
58 24.3 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 25.010 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

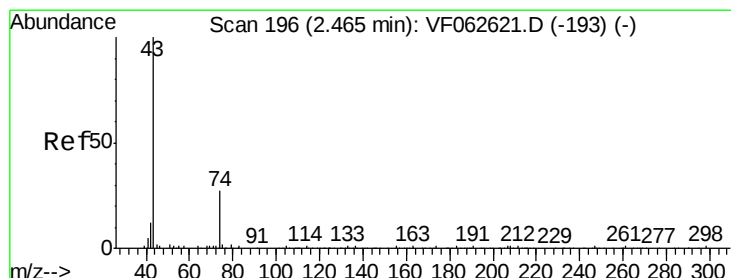
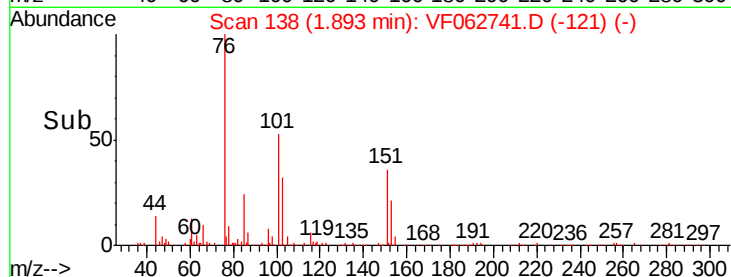
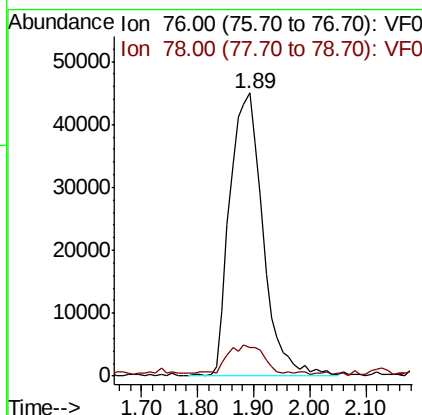
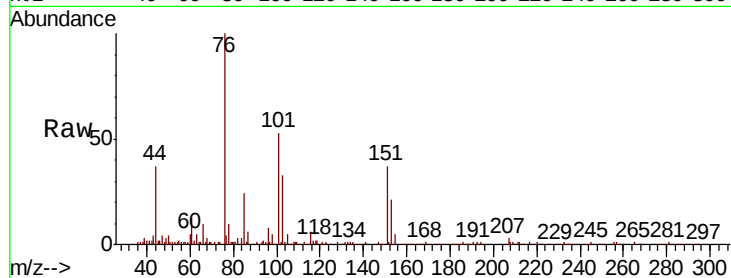
VF0524SBS01

Tot Ion: 76 Resp: 185431

Ion Ratio Lower Upper

76 100

78 10.2 8.4 12.6



#18

Methyl Acetate

Concen: 23.191 ug/l

RT: 2.46 min Scan# 196

Delta R.T. -0.00 min

Lab File: VF062741.D

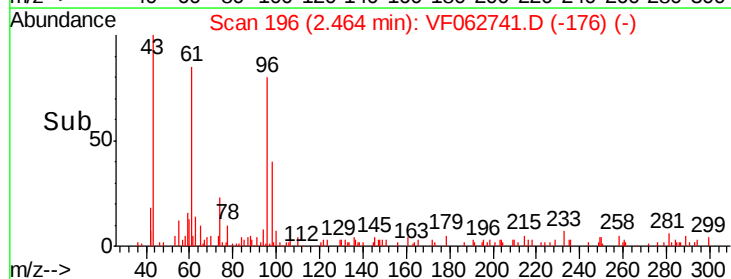
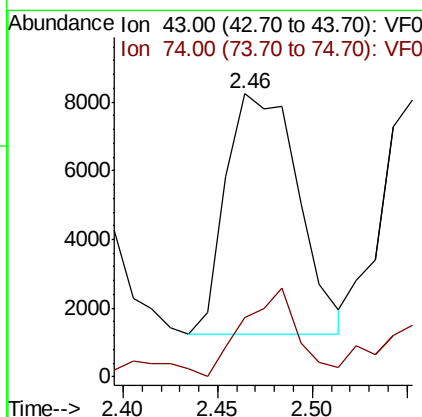
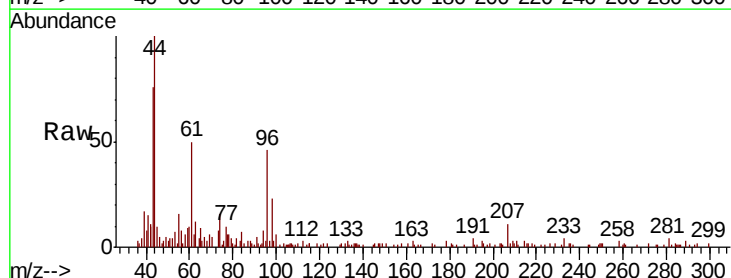
Acq: 24 May 2019 12:24

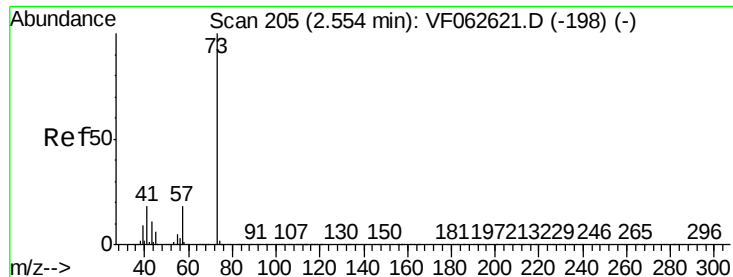
Tgt Ion: 43 Resp: 18604

Ion Ratio Lower Upper

43 100

74 21.1 18.9 28.3



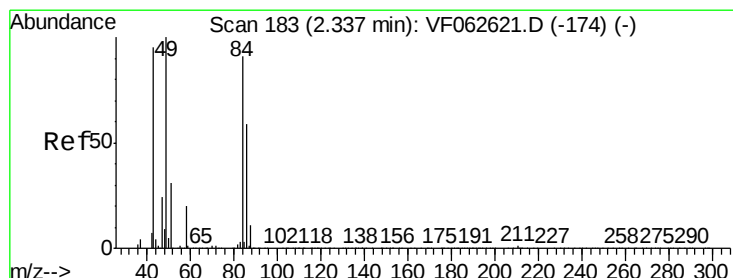
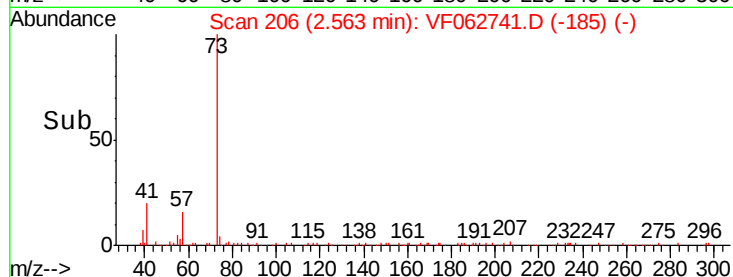
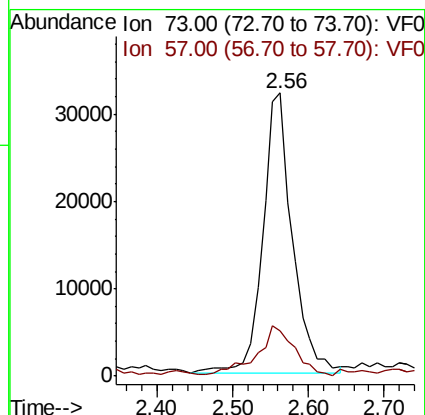
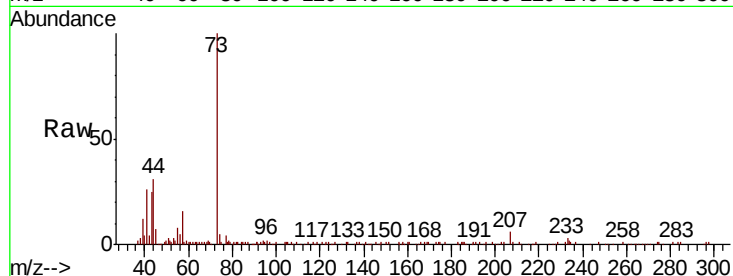


#19

Methyl tert-butyl Ether
 Concen: 19.336 ug/l
 RT: 2.56 min Scan# 206
 Delta R.T. 0.01 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

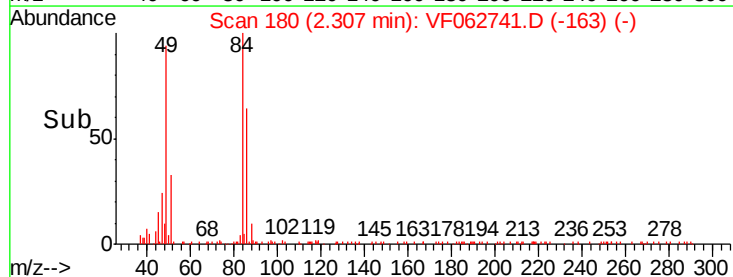
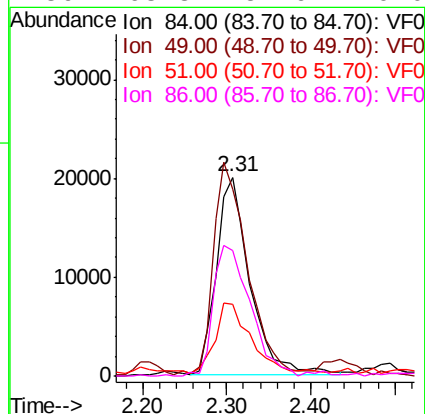
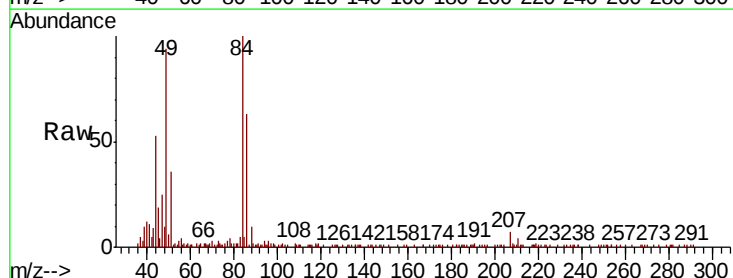
Tot Ion: 73 Resp: 86466
 Ion Ratio Lower Upper
 73 100
 57 16.2 14.2 21.4

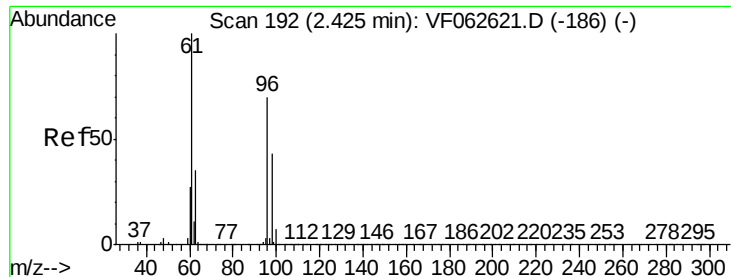


#20

Methylene Chloride
 Concen: 21.710 ug/l
 RT: 2.31 min Scan# 180
 Delta R.T. -0.03 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion: 84 Resp: 55550
 Ion Ratio Lower Upper
 84 100
 49 93.9 89.8 134.8
 51 35.8 28.4 42.6
 86 63.3 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 23.842 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

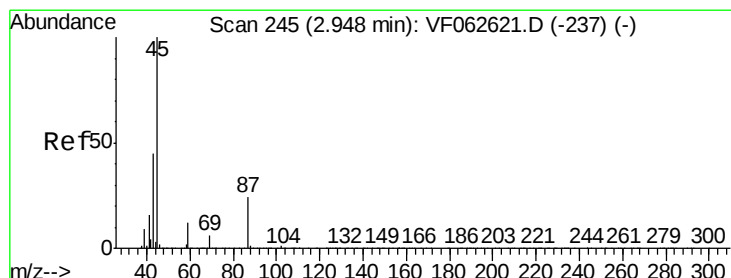
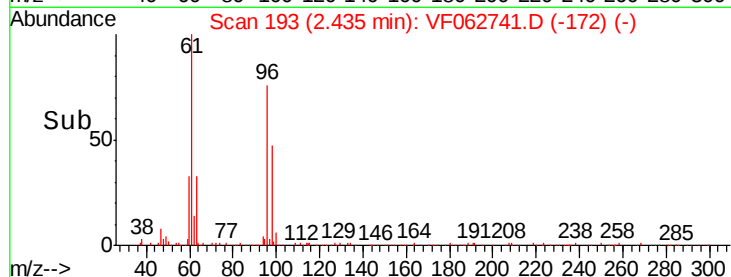
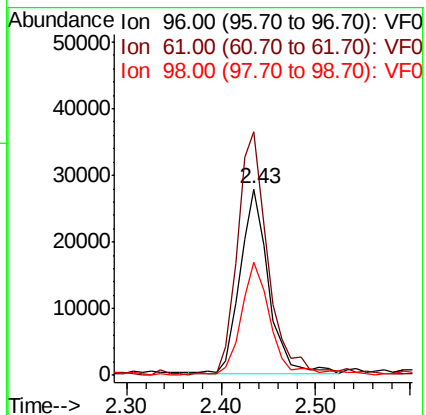
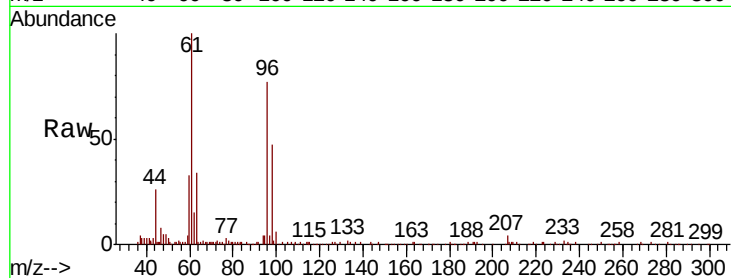
Tot Ion: 96 Resp: 58293

Ion Ratio Lower Upper

96 100

61 130.5 114.6 171.8

98 60.8 49.5 74.3



#22

Diisopropyl ether

Concen: 19.294 ug/l

RT: 2.95 min Scan# 245

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion: 45 Resp: 107730

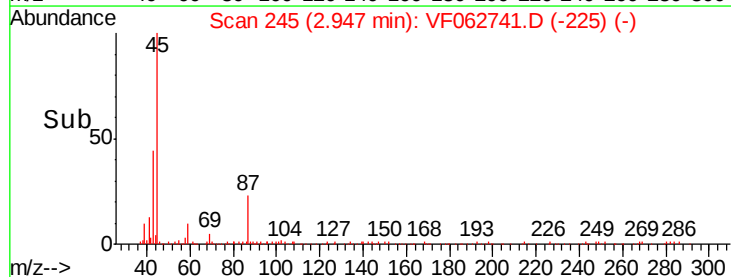
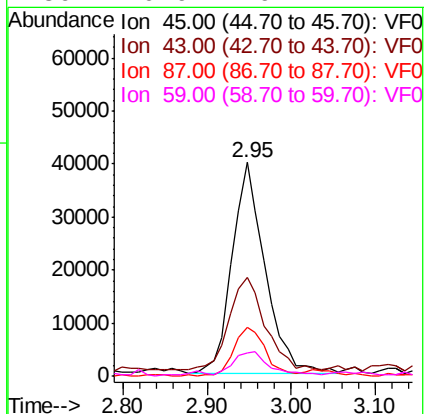
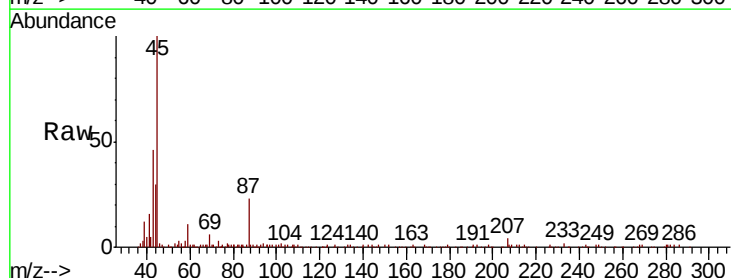
Ion Ratio Lower Upper

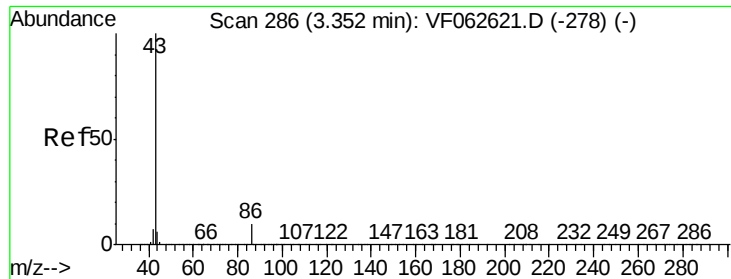
45 100

43 46.5 36.4 54.6

87 22.7 19.3 28.9

59 10.9 9.4 14.2





#23

Vinyl Acetate

Concen: 81.430 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

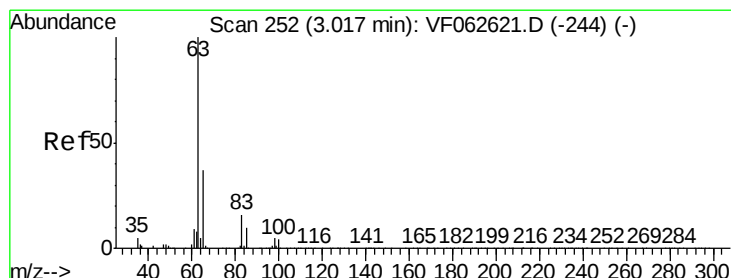
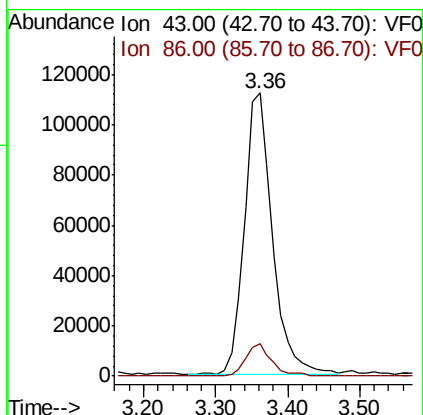
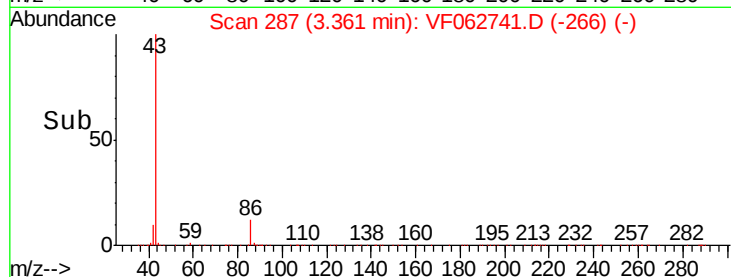
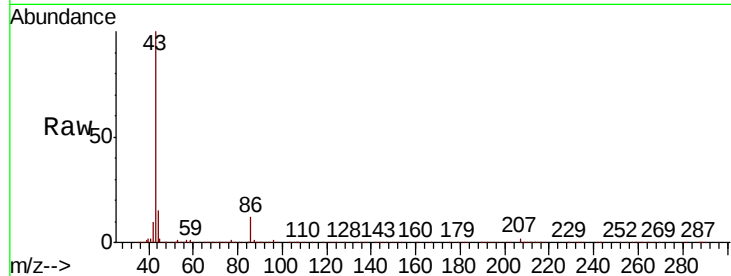
VF0524SBS01

Tot Ion: 43 Resp: 306718

Ion Ratio Lower Upper

43 100

86 11.7 8.2 12.2



#24

1,1-Dichloroethane

Concen: 22.724 ug/l

RT: 3.03 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

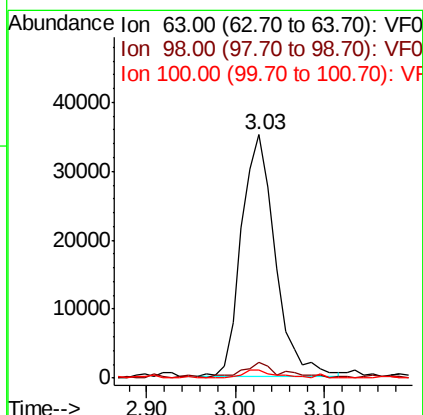
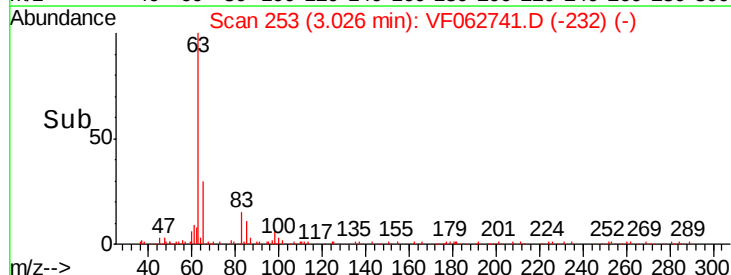
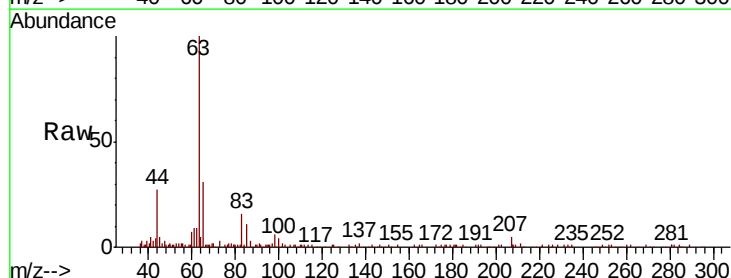
Tgt Ion: 63 Resp: 93081

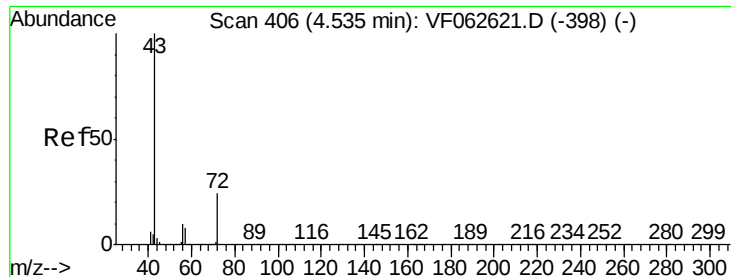
Ion Ratio Lower Upper

63 100

98 6.9 2.8 8.3

100 3.6 1.9 5.7





#25

2-Butanone

Concen: 119.368 ug/l

RT: 4.53 min Scan# 406

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

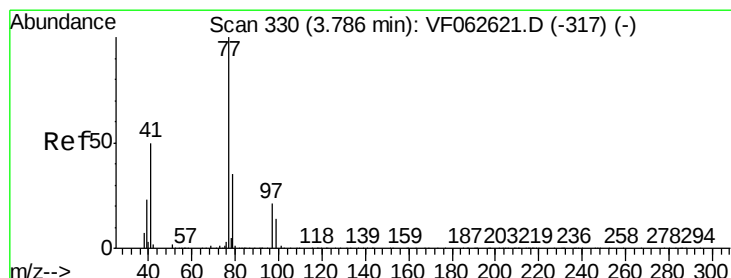
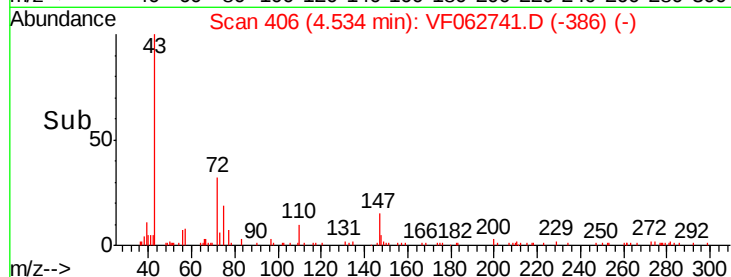
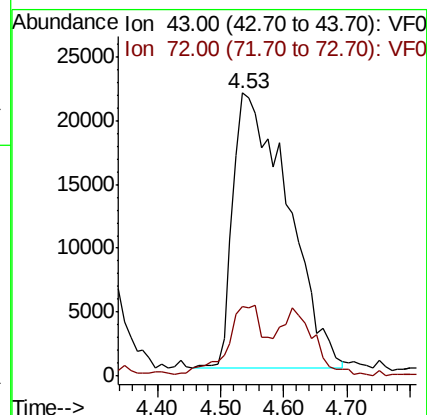
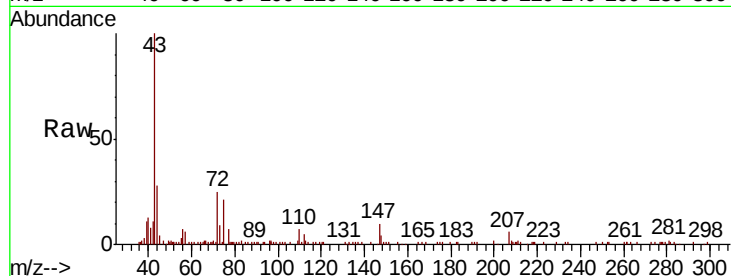
VF0524SBS01

Tot Ion: 43 Resp: 130188

Ion Ratio Lower Upper

43 100

72 24.5 20.1 30.1



#26

2,2-Dichloropropane

Concen: 32.025 ug/l

RT: 3.79 min Scan# 330

Delta R.T. -0.00 min

Lab File: VF062741.D

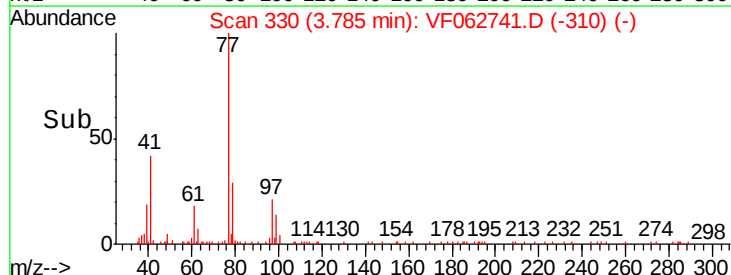
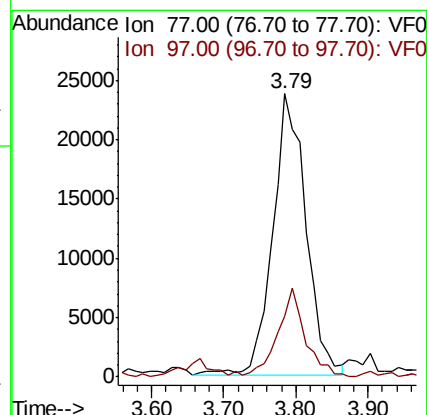
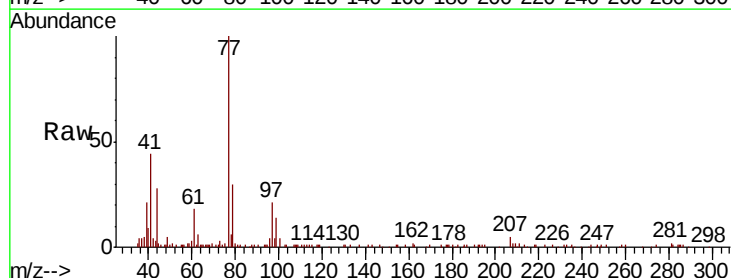
Acq: 24 May 2019 12:24

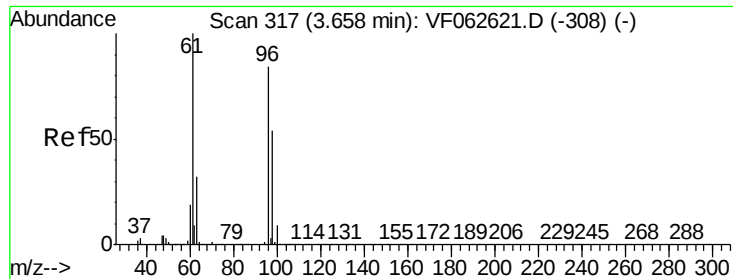
Tgt Ion: 77 Resp: 75058

Ion Ratio Lower Upper

77 100

97 21.4 14.1 42.4



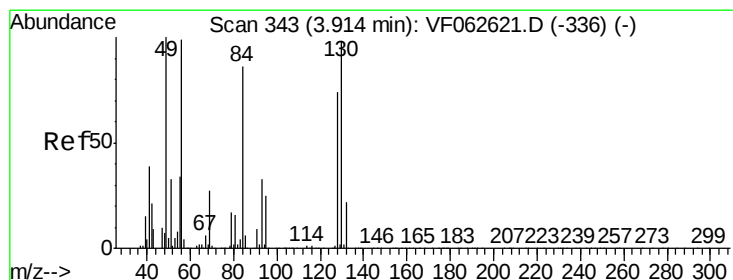
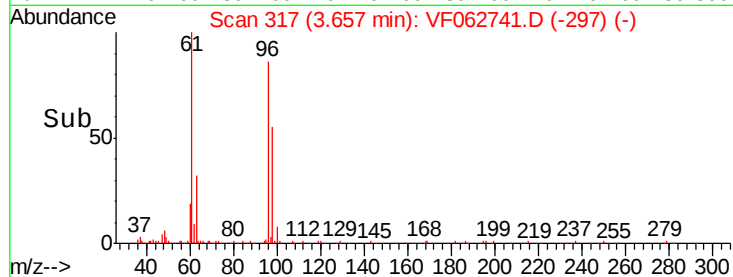
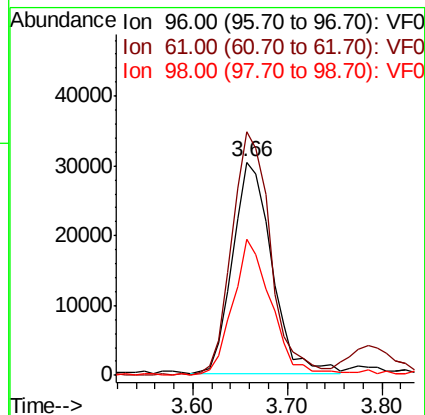
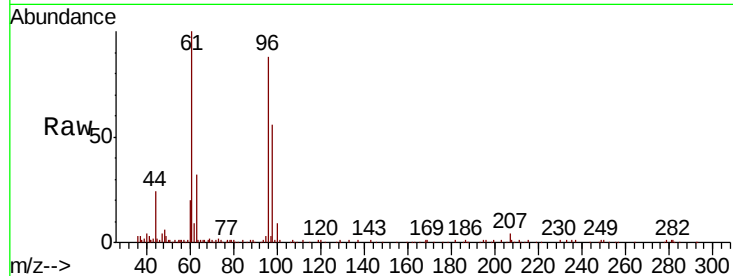


#27

cis-1,2-Dichloroethene
 Concen: 21.653 ug/l
 RT: 3.66 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

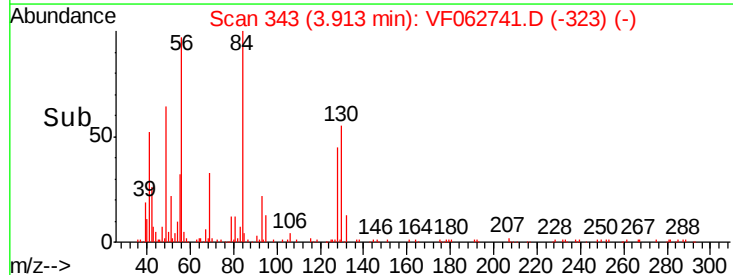
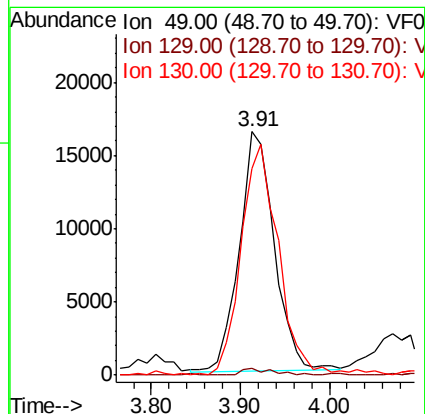
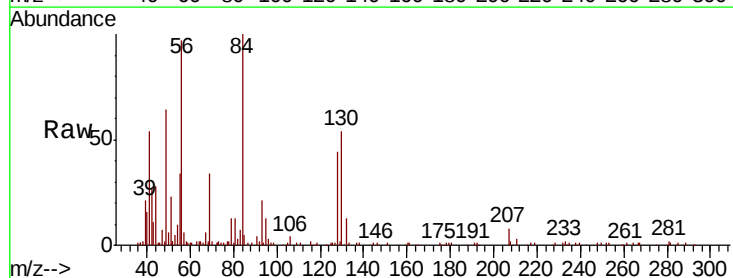
Tot Ion: 96 Resp: 87084
 Ion Ratio Lower Upper
 96 100
 61 114.3 0.0 237.4
 98 64.0 0.0 129.0

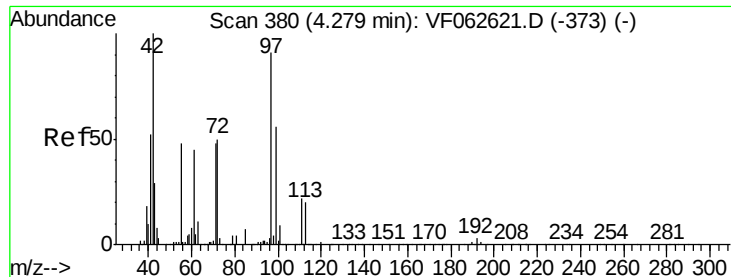


#28

Bromochloromethane
 Concen: 19.604 ug/l
 RT: 3.91 min Scan# 343
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion: 49 Resp: 45037
 Ion Ratio Lower Upper
 49 100
 129 2.6 0.0 4.0
 130 84.6 77.8 116.8

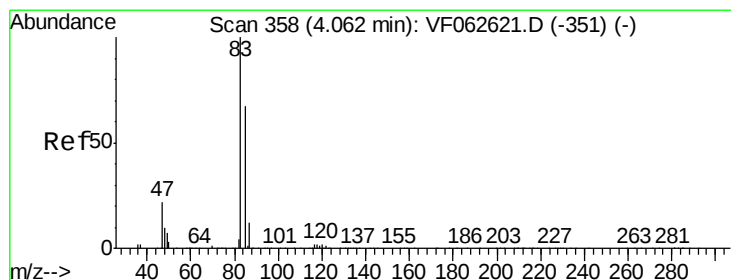
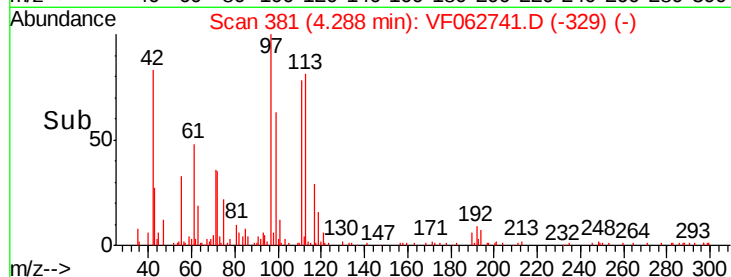
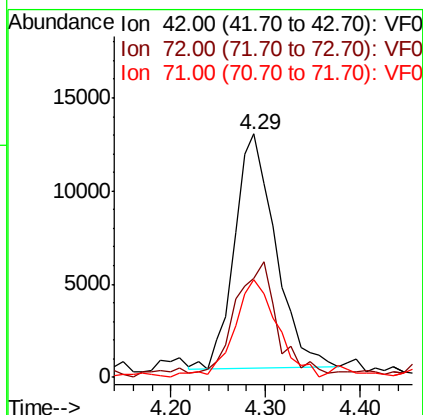
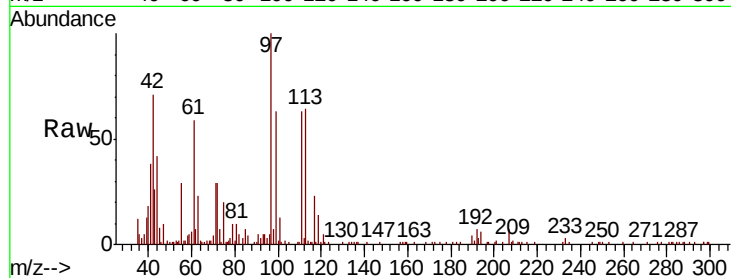




#29
Tetrahydrofuran
Concen: 85.500 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

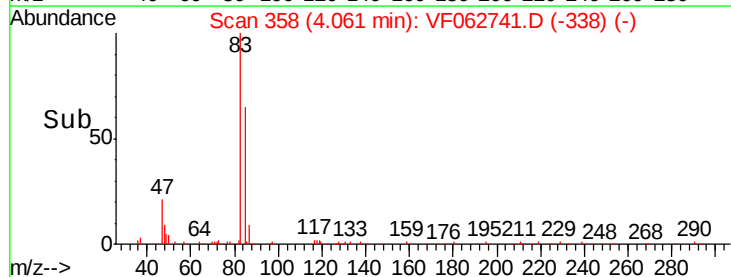
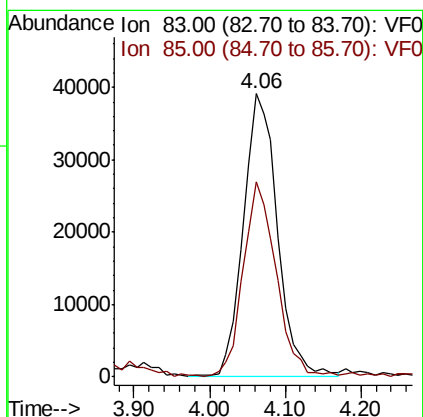
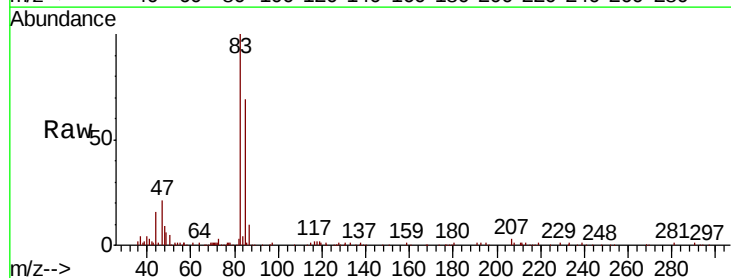
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

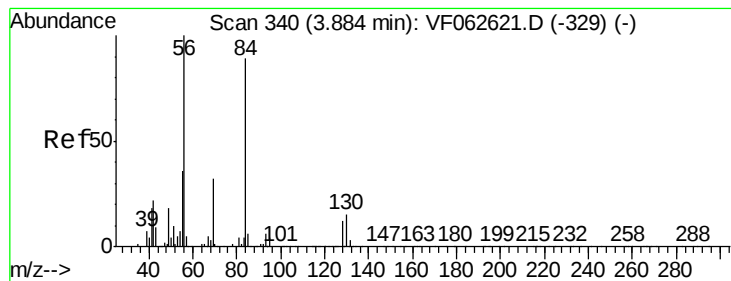
Tot Ion: 42 Resp: 37735
Ion Ratio Lower Upper
42 100
72 52.3 38.2 57.2
71 44.0 35.8 53.6



#30
Chloroform
Concen: 21.378 ug/l
RT: 4.06 min Scan# 358
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion: 83 Resp: 121582
Ion Ratio Lower Upper
83 100
85 69.0 53.6 80.4





#31

Cvclohexane

Concen: 23.143 ug/l

RT: 3.90 min Scan# 342

Delta R.T. 0.02 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

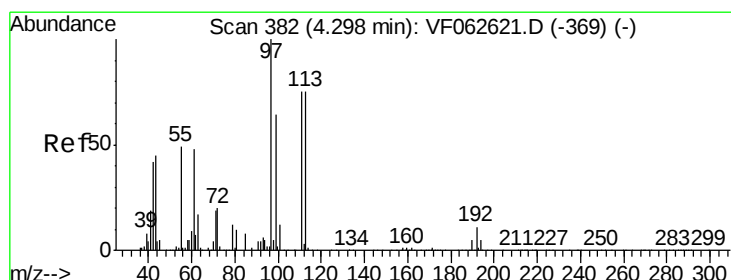
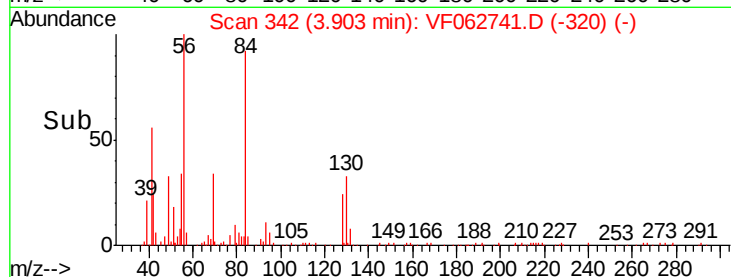
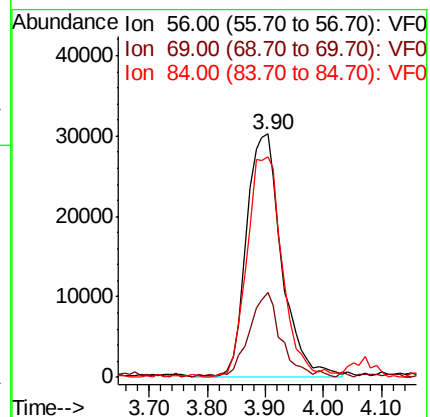
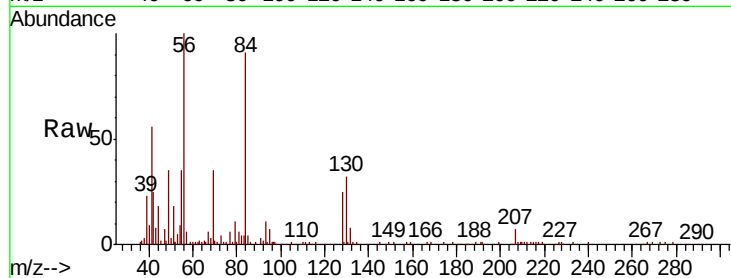
Tot Ion: 56 Resp: 127285

Ion Ratio Lower Upper

56 100

69 34.8 25.3 37.9

84 90.7 71.0 106.4



#32

1,1,1-Trichloroethane

Concen: 26.980 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

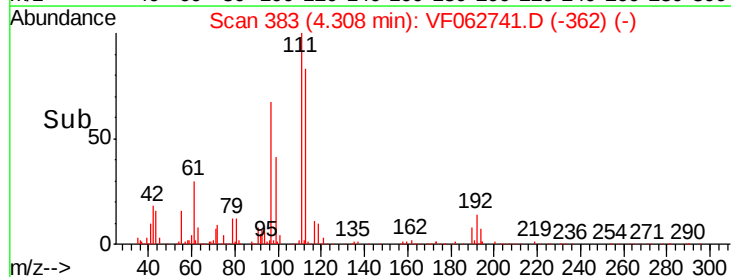
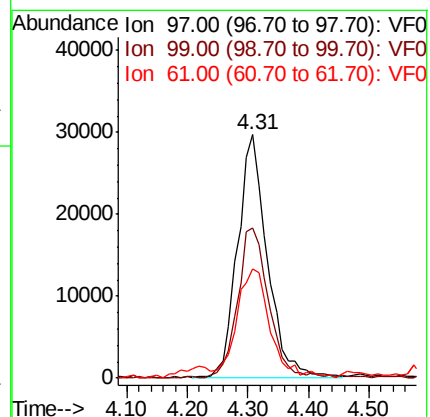
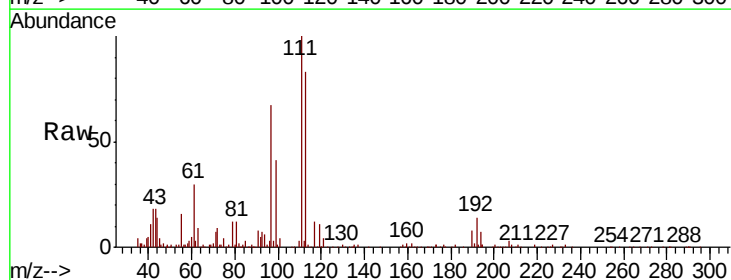
Tgt Ion: 97 Resp: 101902

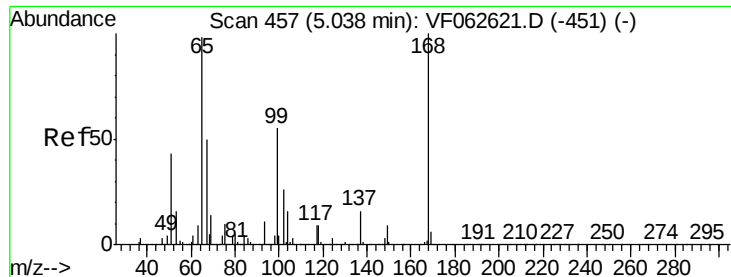
Ion Ratio Lower Upper

97 100

99 61.5 51.3 76.9

61 44.6 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 42.433 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

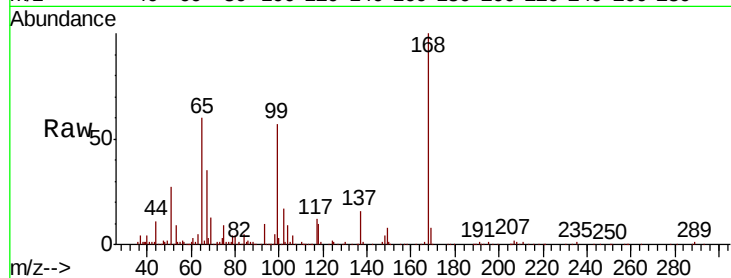
VF0524SBS01

Tot Ion: 65 Resp: 83496

Ion Ratio Lower Upper

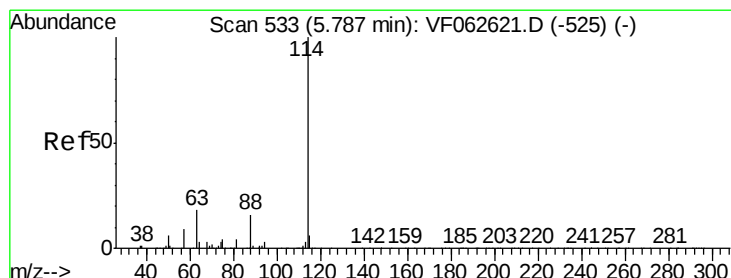
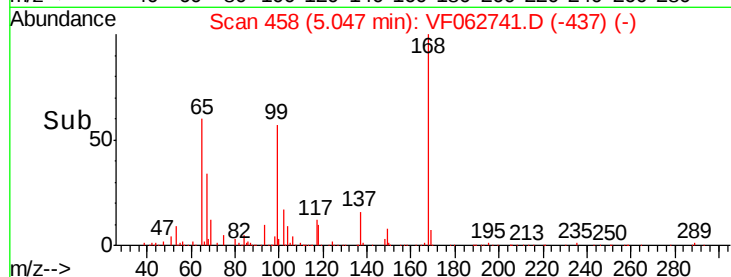
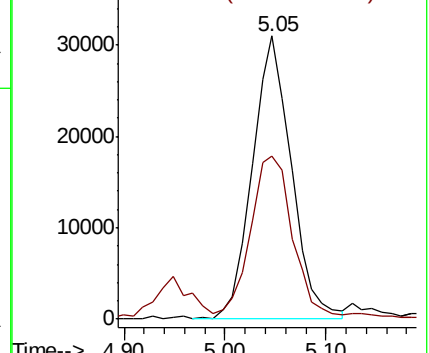
65 100

67 57.5 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

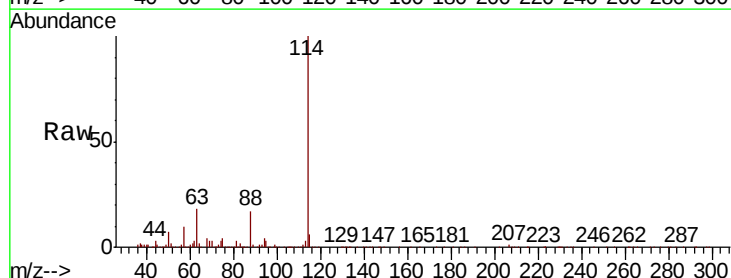
Tgt Ion:114 Resp: 463465

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.4

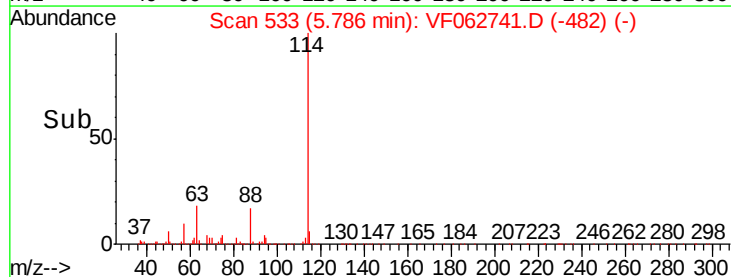
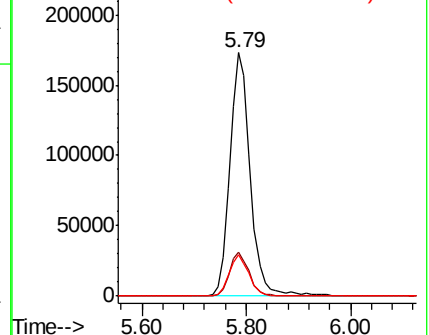
88 16.8 0.0 32.4

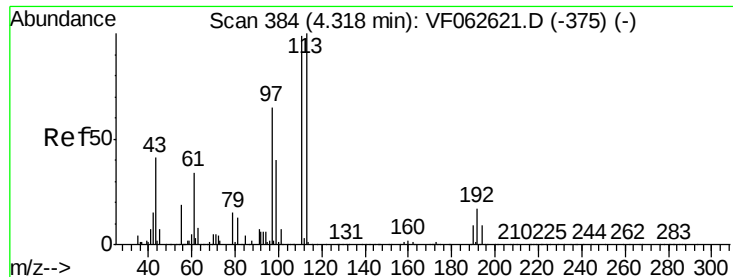


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

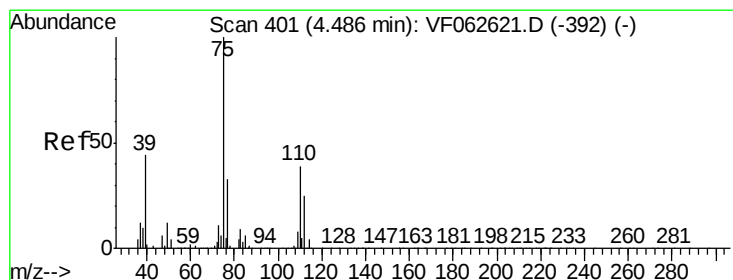
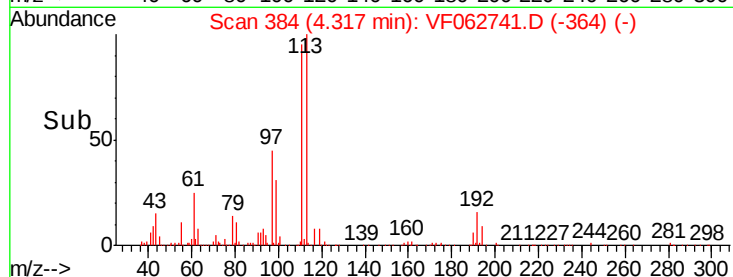
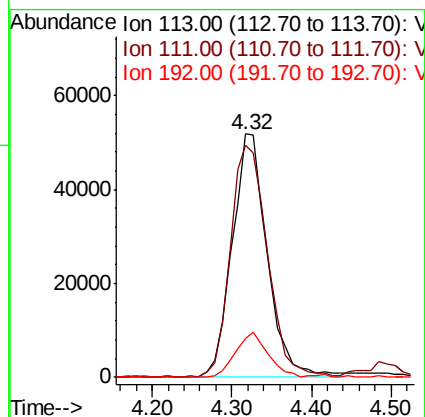
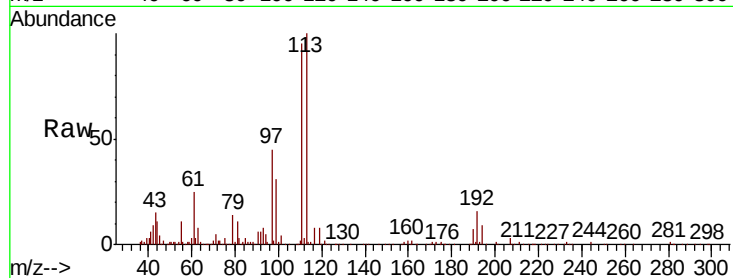




#35
 Dibromofluoromethane
 Concen: 45.074 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

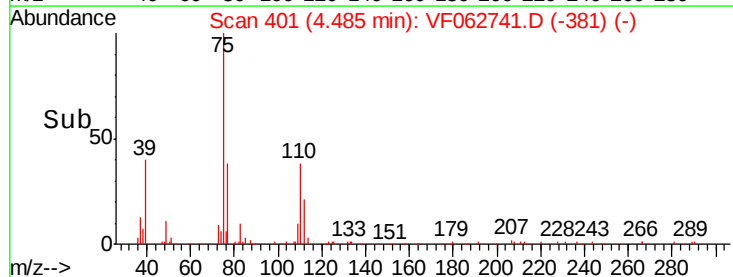
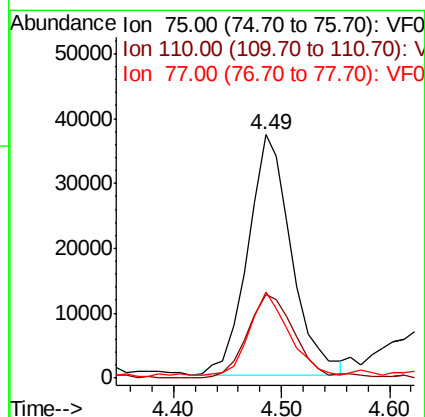
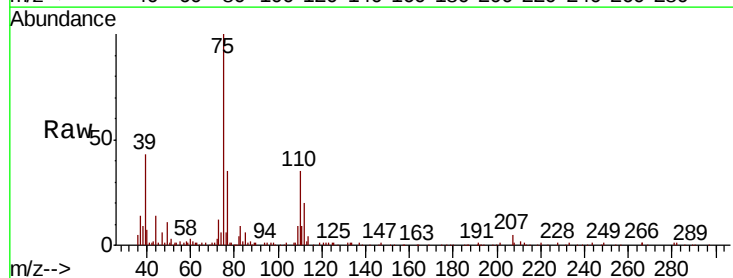
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

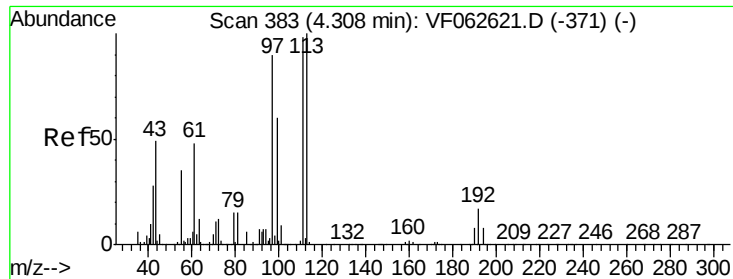
Tot Ion	Ratio	Lower	Upper
113	100		
111	95.4	79.4	119.2
192	16.0	13.4	20.2



#36
 1,1-Dichloropropene
 Concen: 21.991 ug/l
 RT: 4.49 min Scan# 401
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.5	19.7	59.1
77	35.2	26.3	39.5

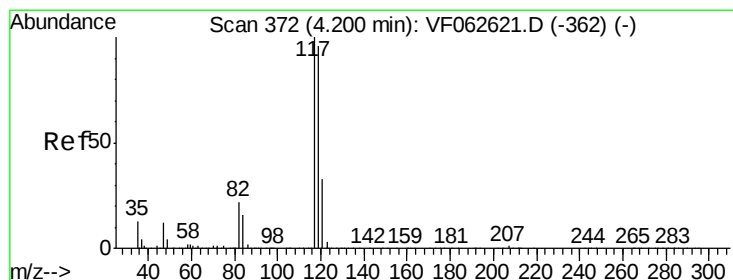
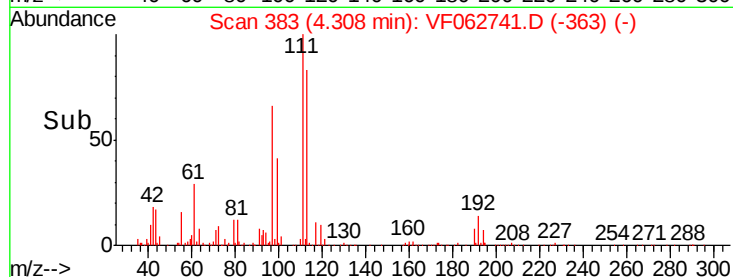
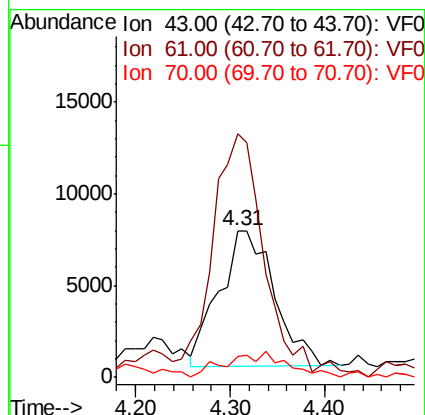
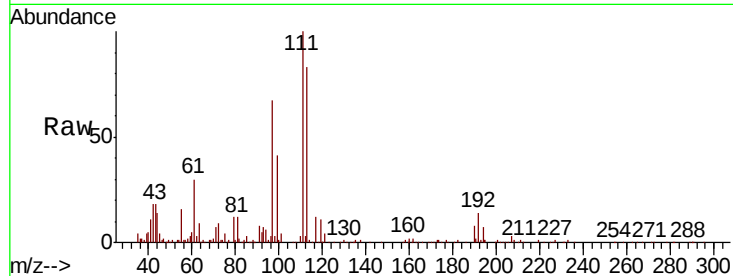




#37
Ethyl Acetate
Concen: 15.592 ug/l
RT: 4.31 min Scan# 383
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

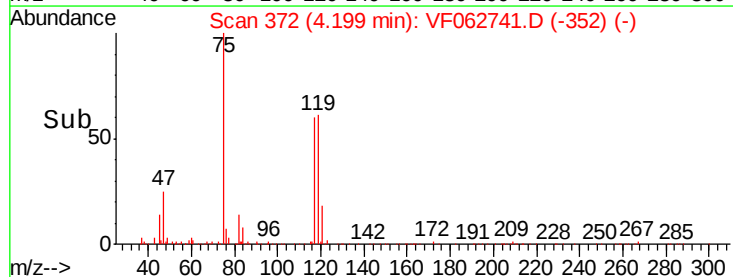
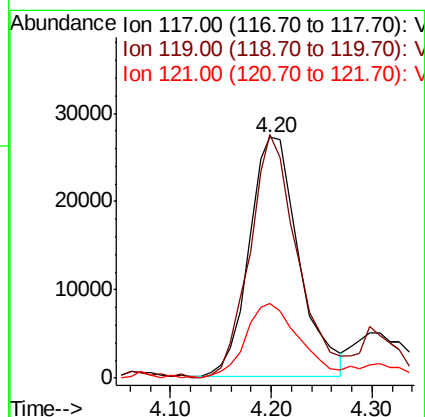
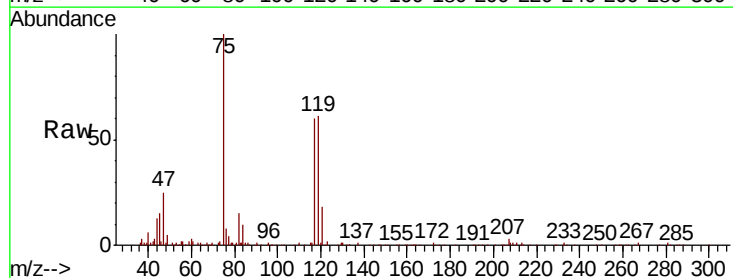
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

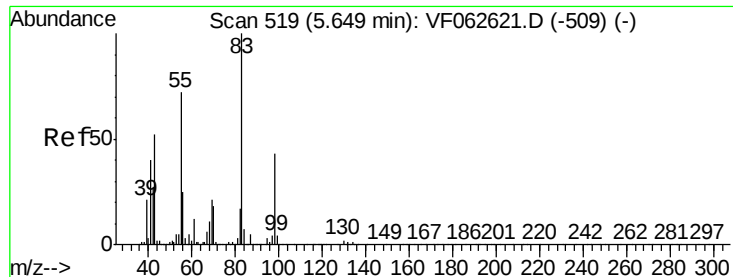
Tot Ion: 43 Resp: 30234
Ion Ratio Lower Upper
43 100
61 165.7 76.9 115.3#
70 13.8 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 26.021 ug/l
RT: 4.20 min Scan# 372
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion: 117 Resp: 92940
Ion Ratio Lower Upper
117 100
119 101.1 76.7 115.1
121 31.0 26.6 40.0

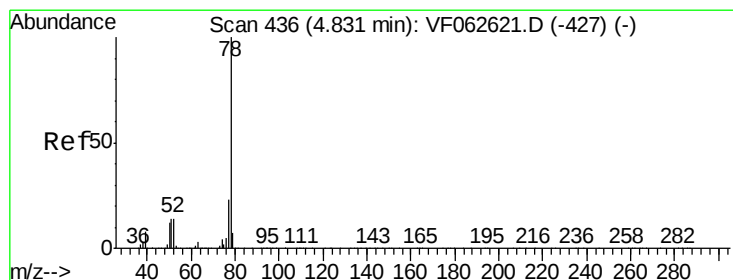
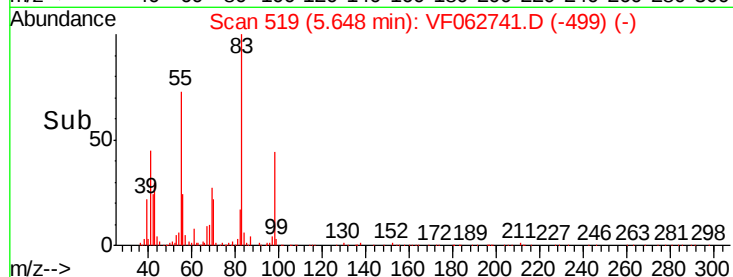
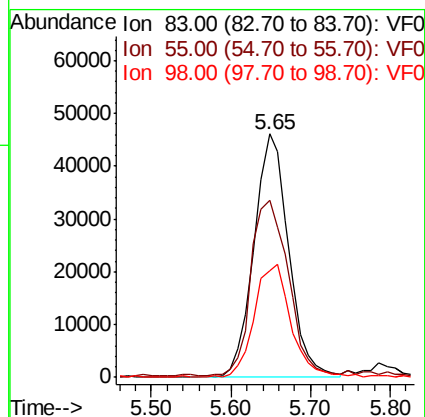
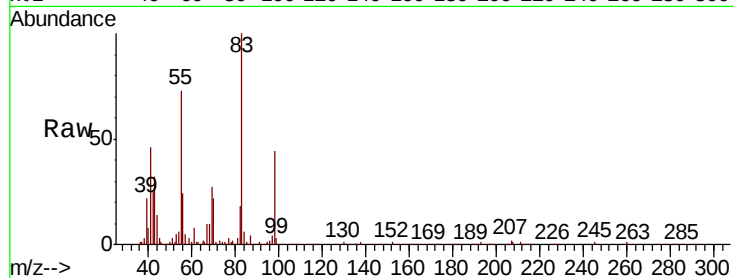




#39
Methvlcvclohexane
Concen: 24.321 ug/l
RT: 5.65 min Scan# 519
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

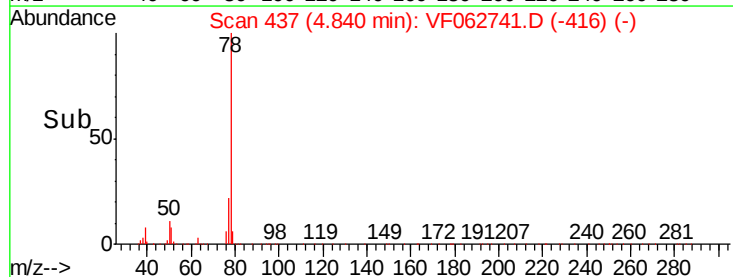
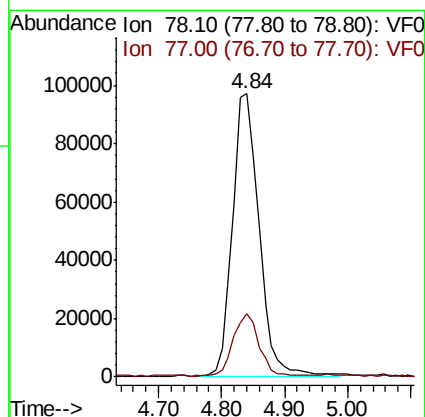
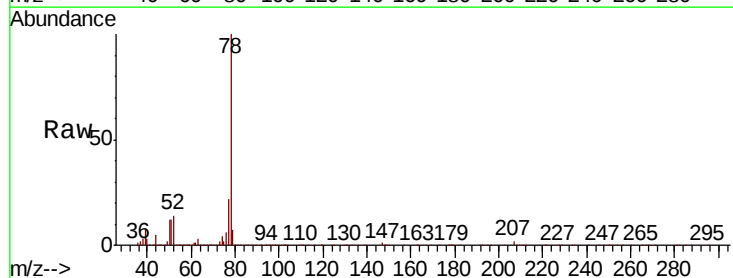
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

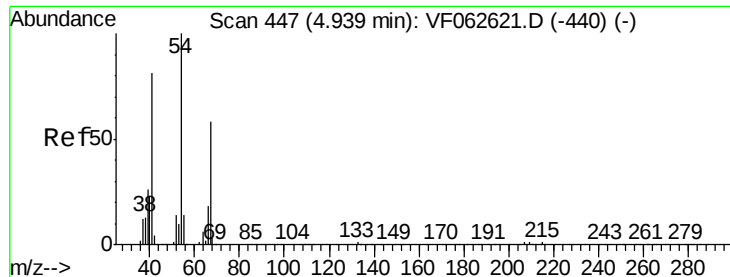
Tot Ion: 83 Resp: 138979
Ion Ratio Lower Upper
83 100
55 72.8 57.9 86.9
98 43.8 34.6 52.0



#40
Benzene
Concen: 21.651 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.01 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion: 78 Resp: 280112
Ion Ratio Lower Upper
78 100
77 22.5 18.2 27.2





#41

Methacrylonitrile

Concen: 17.758 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

Tot Ion: 41 Resp: 18053

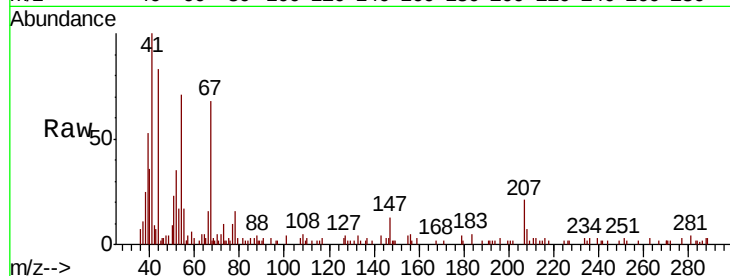
Ion Ratio Lower Upper

41 100

39 53.0 42.2 63.2

67 68.2 56.4 84.6

52 35.4 38.8 58.2#

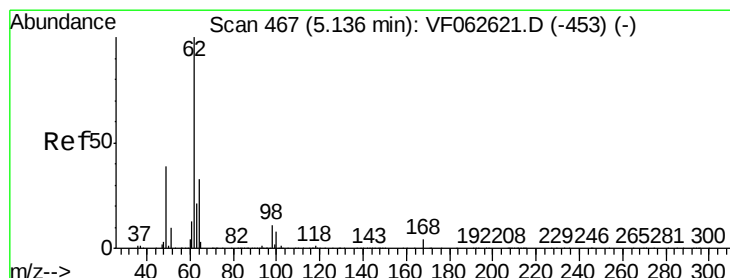
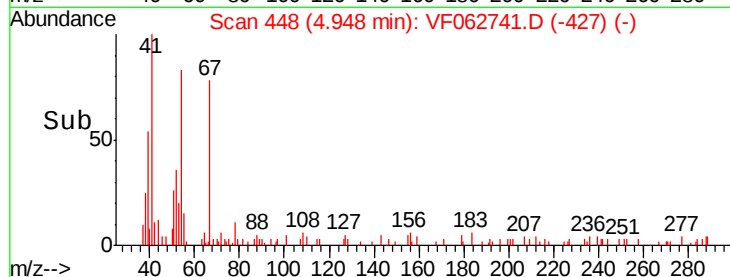
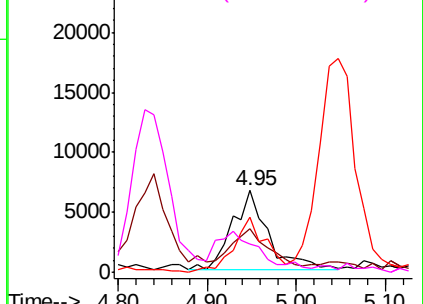


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 18.121 ug/l

RT: 5.15 min Scan# 468

Delta R.T. 0.01 min

Lab File: VF062741.D

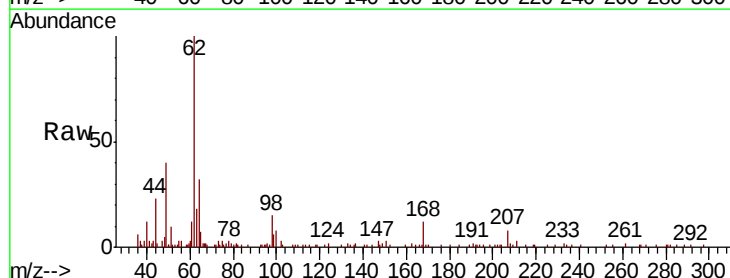
Acq: 24 May 2019 12:24

Tgt Ion: 62 Resp: 46751

Ion Ratio Lower Upper

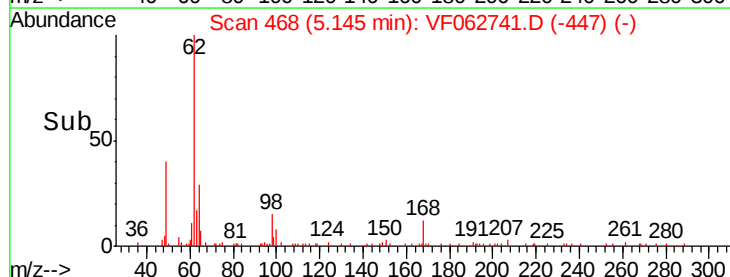
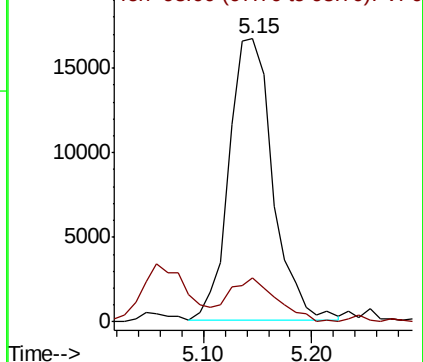
62 100

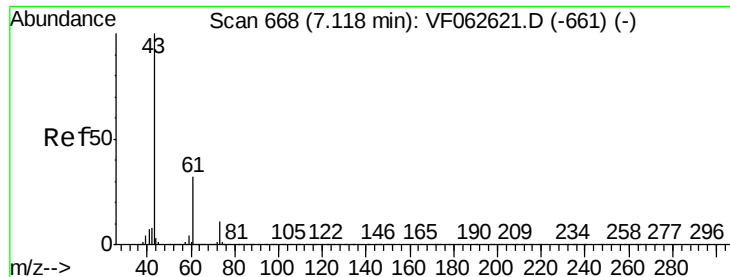
98 15.4 0.0 21.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 16.214 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

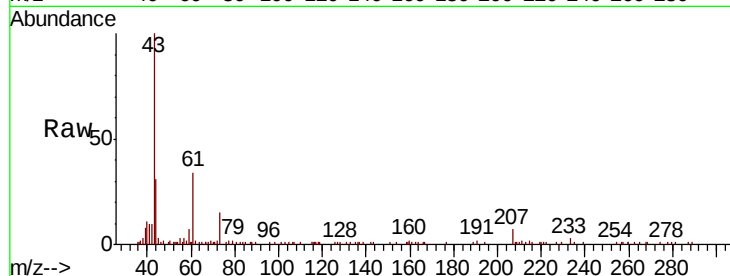
Tot Ion: 43 Resp: 40731

Ion Ratio Lower Upper

43 100

61 34.0 25.8 38.8

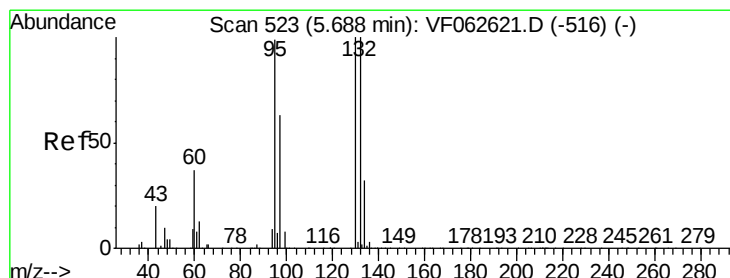
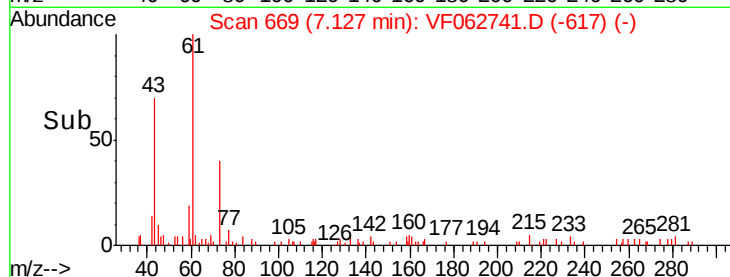
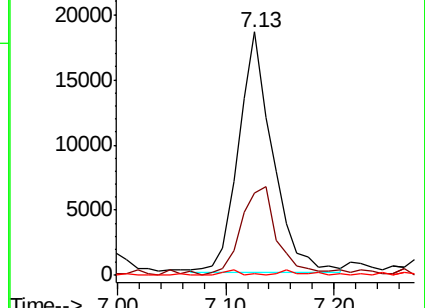
87 0.9 0.4 0.6#



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: 23.658 ug/l

RT: 5.70 min Scan# 524

Delta R.T. 0.01 min

Lab File: VF062741.D

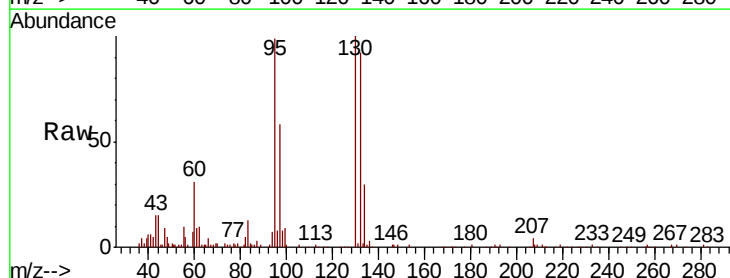
Acq: 24 May 2019 12:24

Tgt Ion:130 Resp: 86025

Ion Ratio Lower Upper

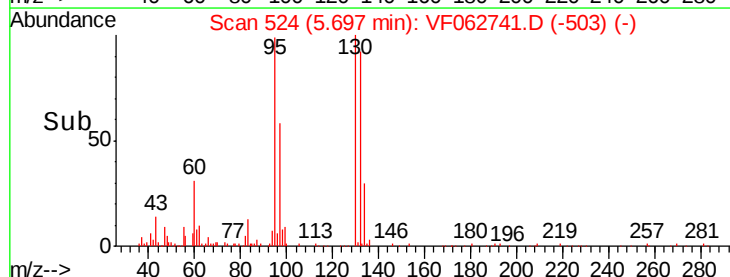
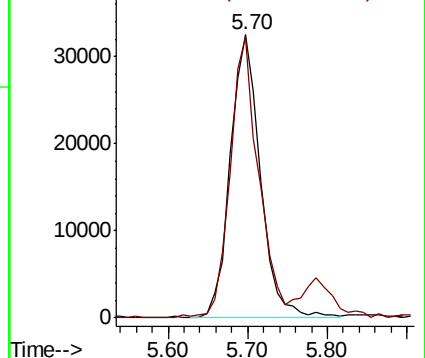
130 100

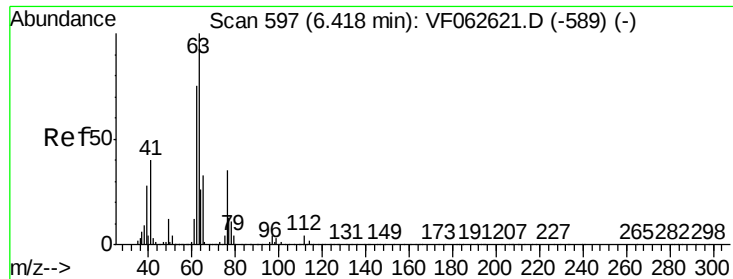
95 99.0 0.0 199.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 20.290 ug/l

RT: 6.42 min Scan# 597

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

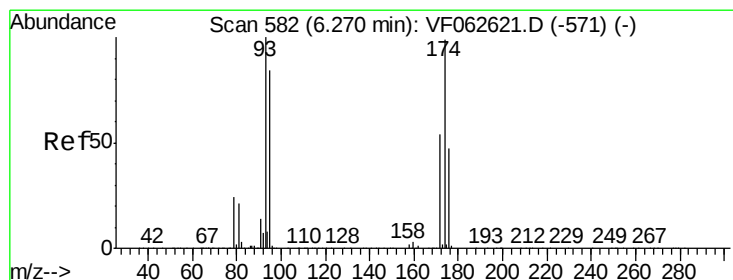
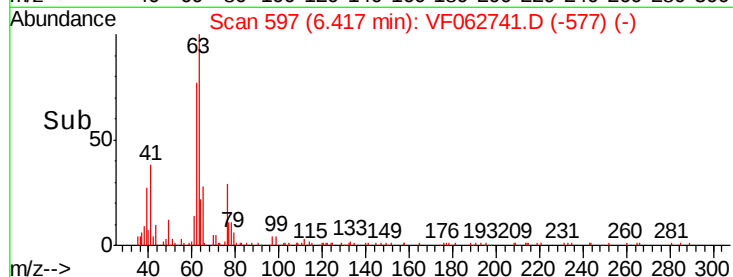
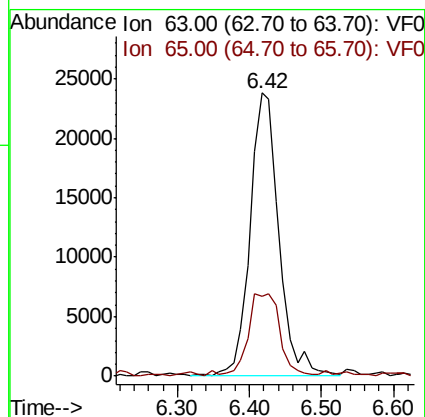
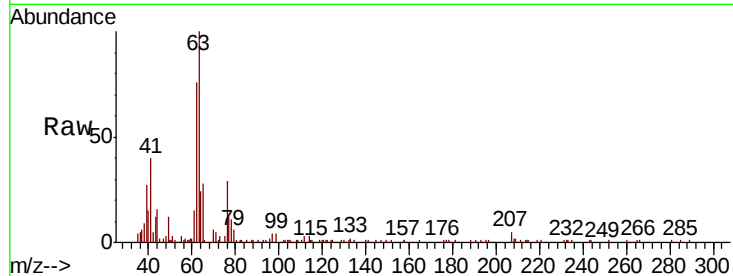
VF0524SBS01

Tot Ion: 63 Resp: 66266

Ion Ratio Lower Upper

63 100

65 28.3 26.3 39.5



#46

Dibromomethane

Concen: 19.802 ug/l

RT: 6.27 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

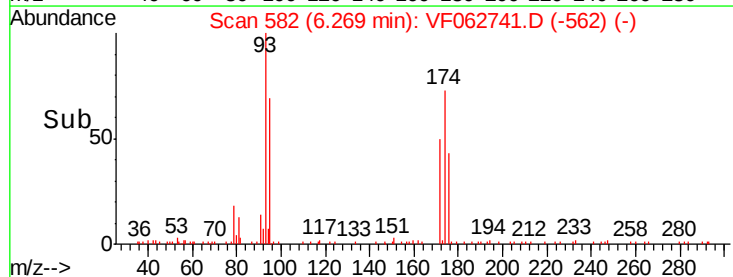
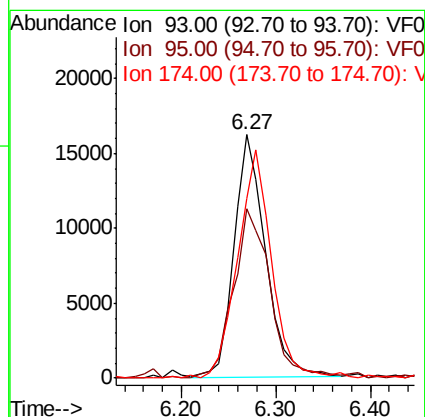
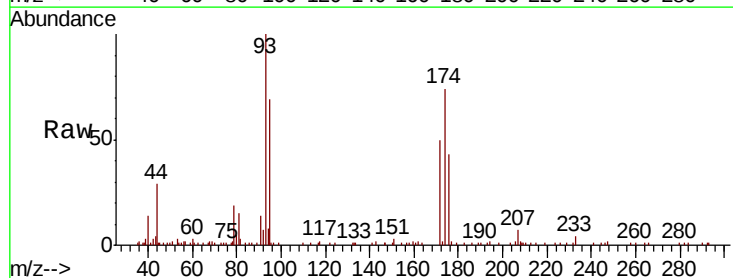
Tgt Ion: 93 Resp: 37376

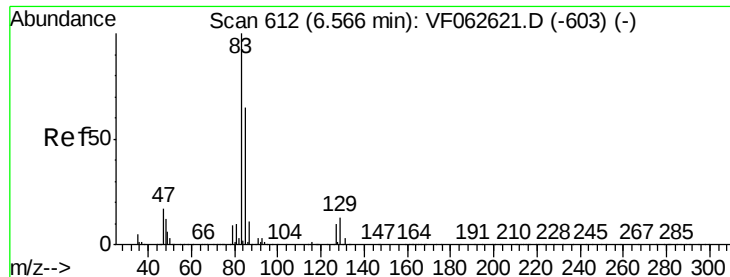
Ion Ratio Lower Upper

93 100

95 69.7 67.4 101.2

174 74.0 79.4 119.2#





#47

Bromodichloromethane

Concen: 19.172 ug/l

RT: 6.56 min Scan# 612

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

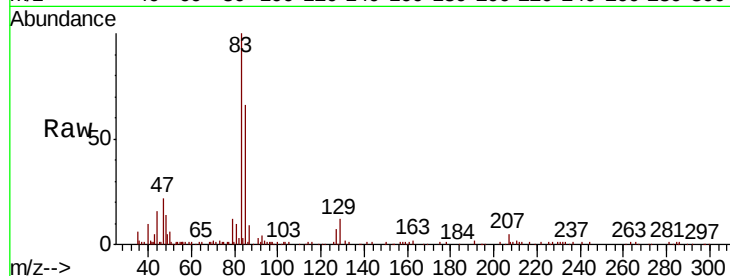
Tot Ion: 83 Resp: 75123

Ion Ratio Lower Upper

83 100

85 66.4 52.0 78.0

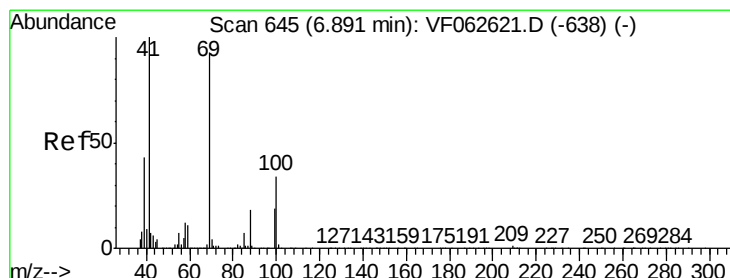
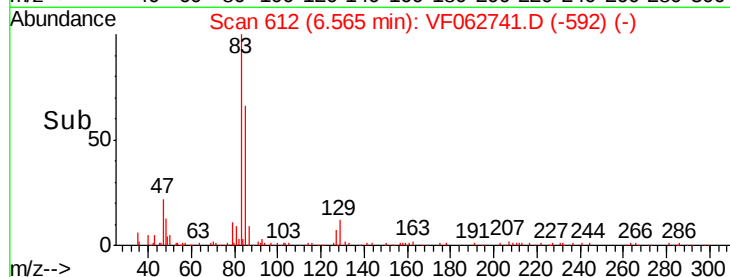
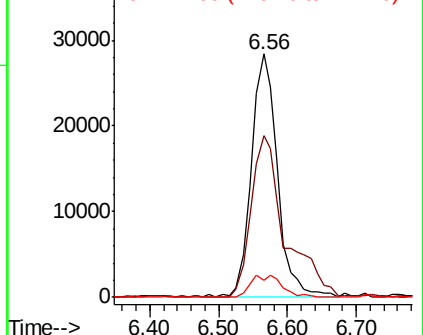
127 7.3 7.7 11.5#



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: 15.359 ug/l

RT: 6.89 min Scan# 645

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

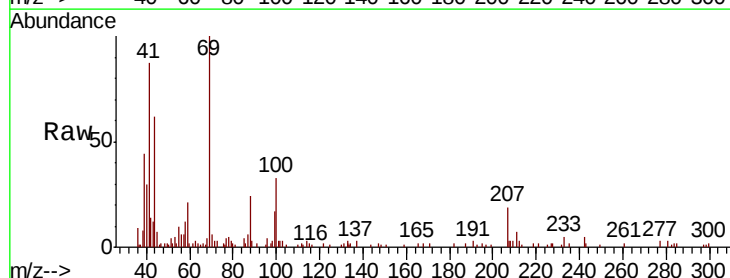
Tgt Ion: 41 Resp: 20167

Ion Ratio Lower Upper

41 100

69 114.7 74.2 111.2#

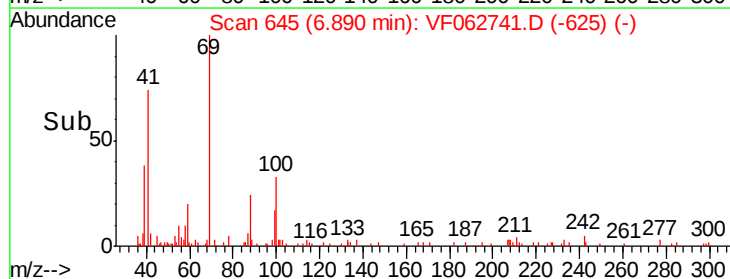
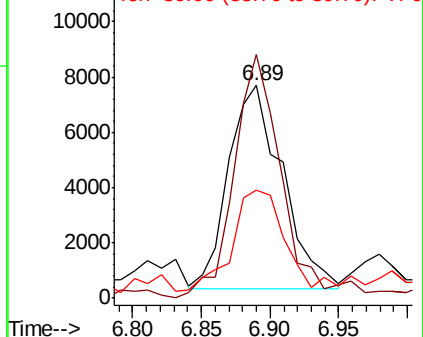
39 50.6 34.2 51.4

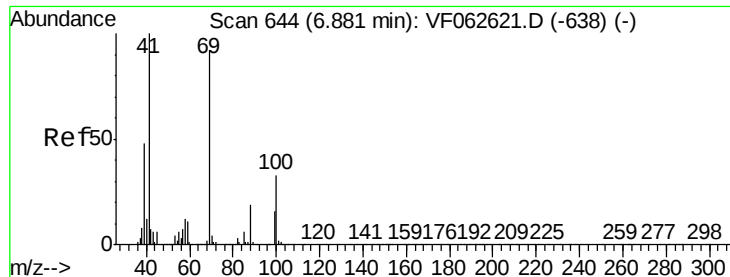


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 409.636 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

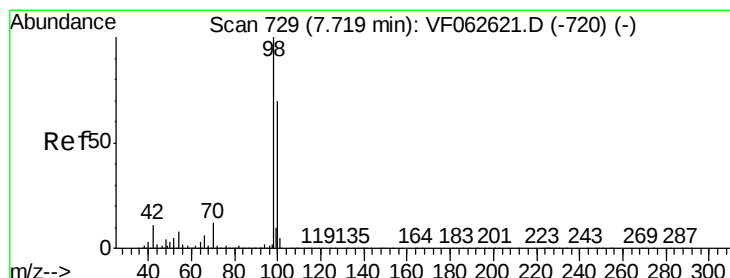
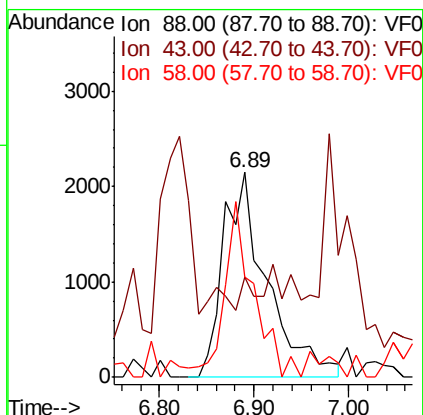
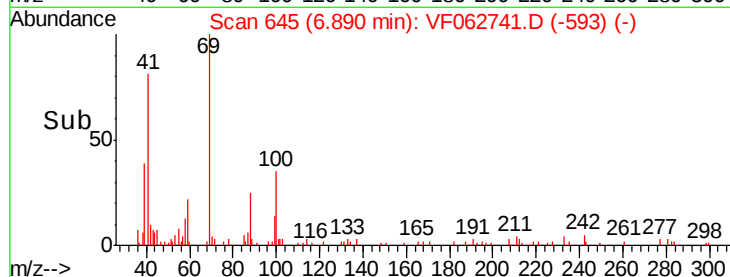
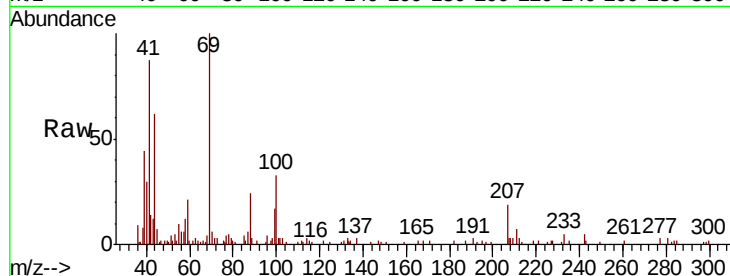
Tot Ion: 88 Resp: 6889

Ion Ratio Lower Upper

88 100

43 49.1 30.0 45.0#

58 49.2 51.1 76.7#



#50

Toluene-d8

Concen: 44.035 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.00 min

Lab File: VF062741.D

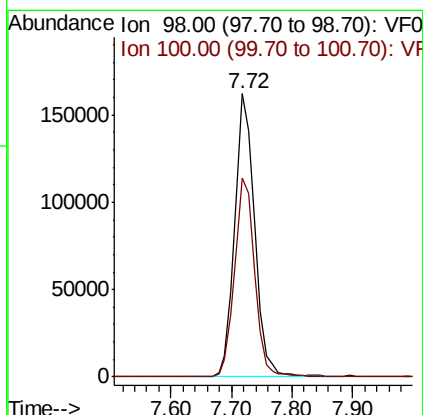
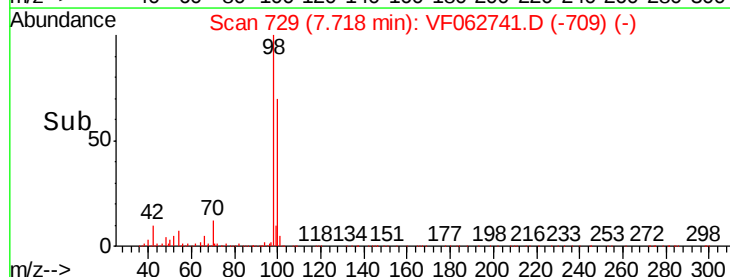
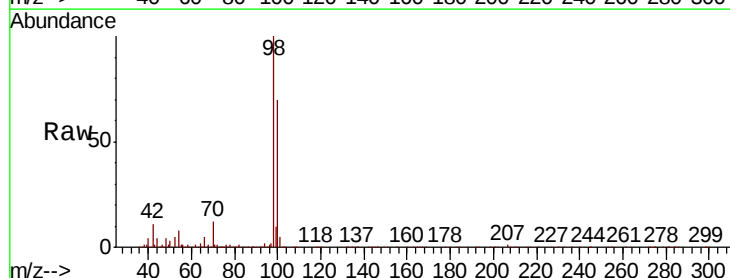
Acq: 24 May 2019 12:24

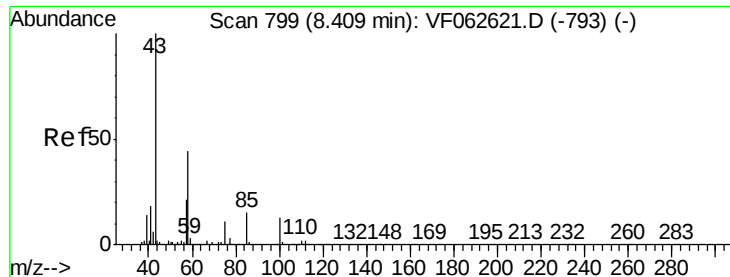
Tgt Ion: 98 Resp: 372871

Ion Ratio Lower Upper

98 100

100 70.4 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 80.310 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

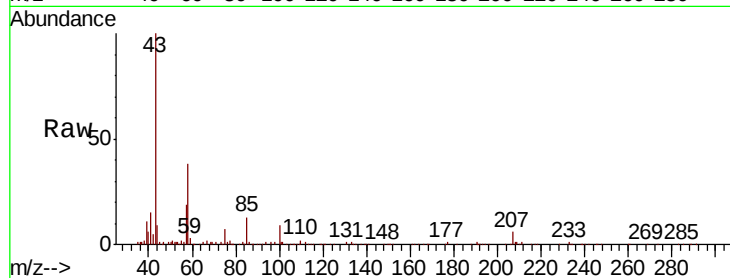
VF0524SBS01

Tot Ion: 43 Resp: 137903

Ion Ratio Lower Upper

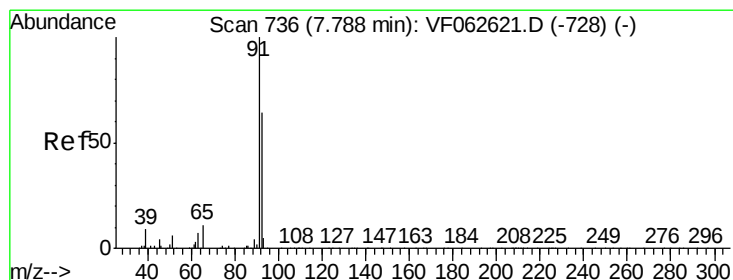
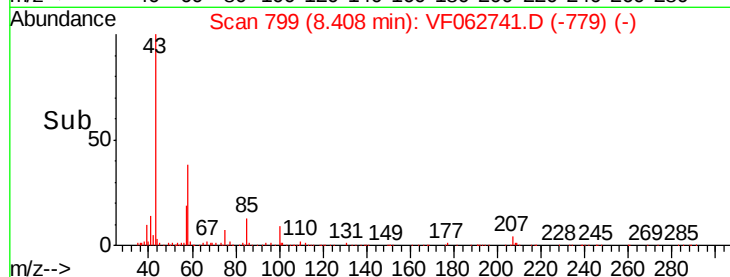
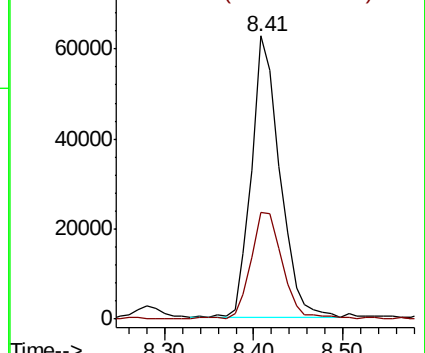
43 100

58 37.7 34.9 52.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.148 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF062741.D

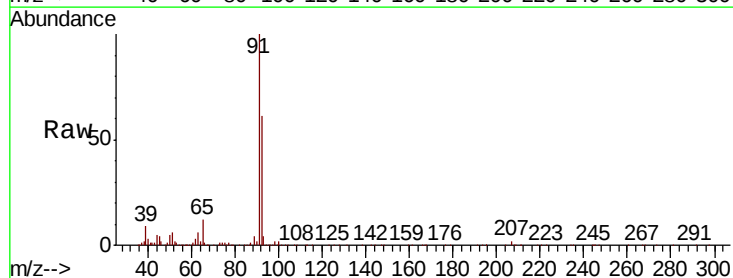
Acq: 24 May 2019 12:24

Tgt Ion: 92 Resp: 136709

Ion Ratio Lower Upper

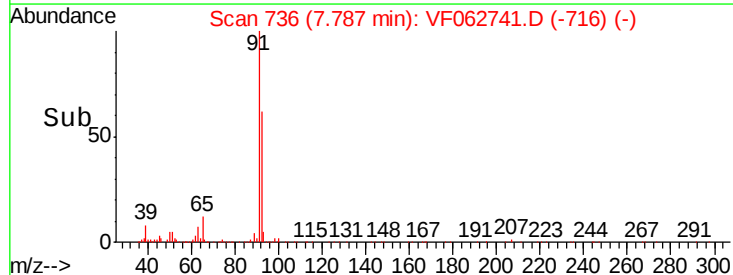
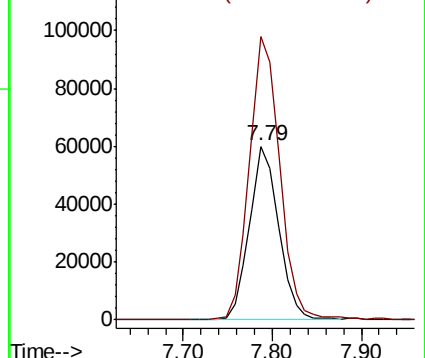
92 100

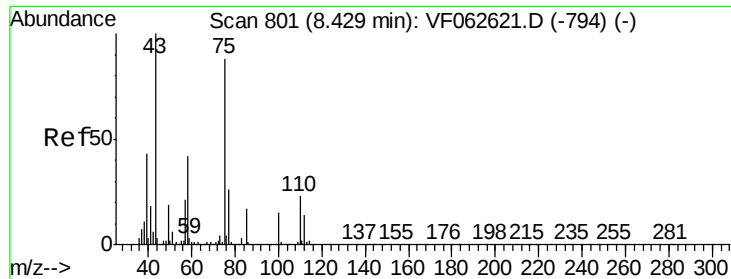
91 163.1 125.4 188.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

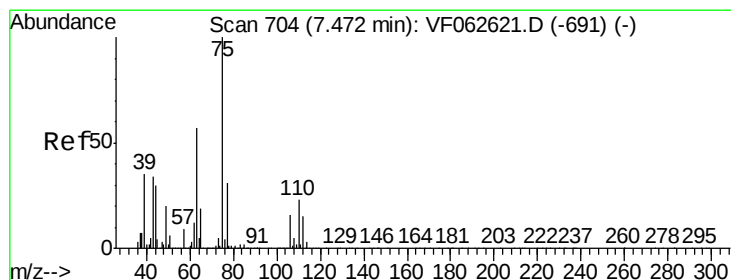
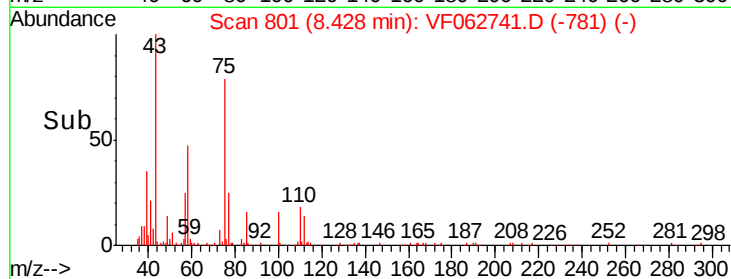
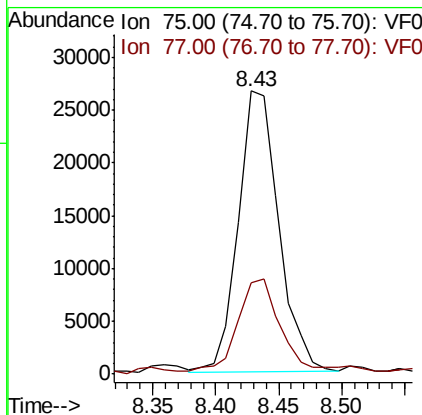
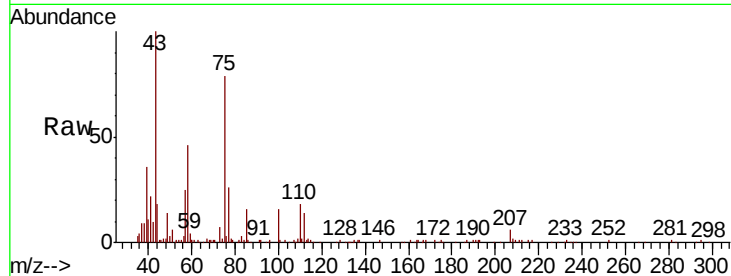




#53
t-1,3-Dichloropropene
Concen: 18.484 ug/l
RT: 8.43 min Scan# 801
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

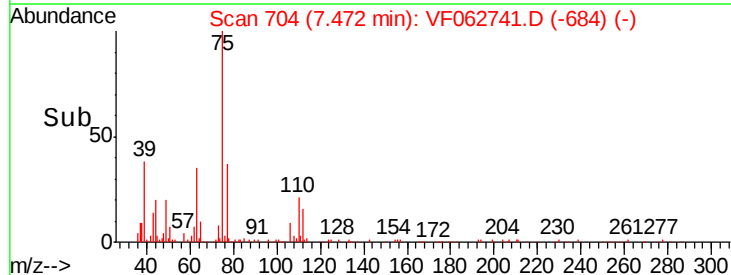
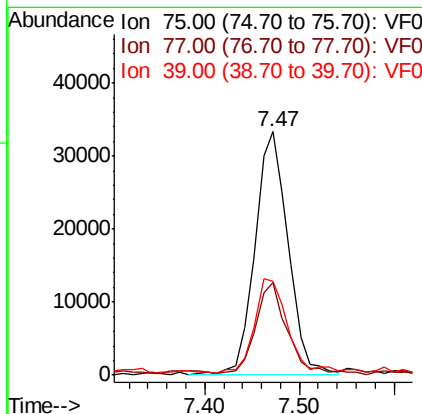
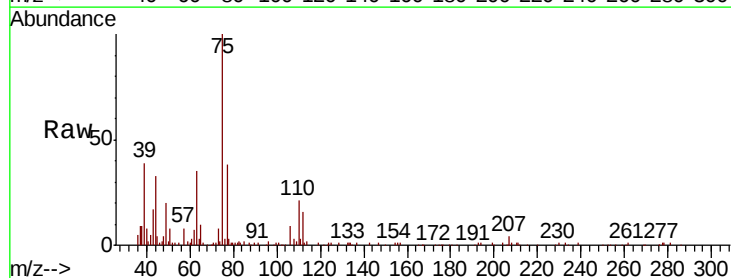
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

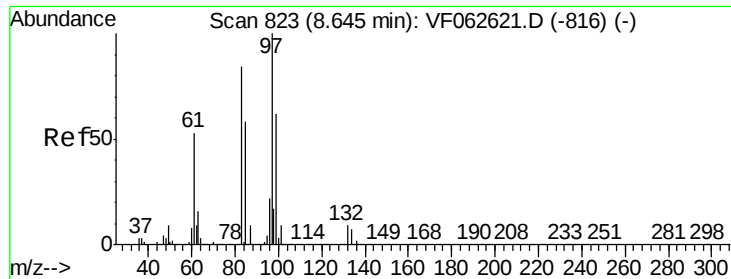
Tot Ion: 75 Resp: 59254
Ion Ratio Lower Upper
75 100
77 32.4 24.2 36.4



#54
cis-1,3-Dichloropropene
Concen: 18.225 ug/l
RT: 7.47 min Scan# 704
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion: 75 Resp: 81783
Ion Ratio Lower Upper
75 100
77 38.0 25.3 37.9#
39 38.5 28.2 42.2

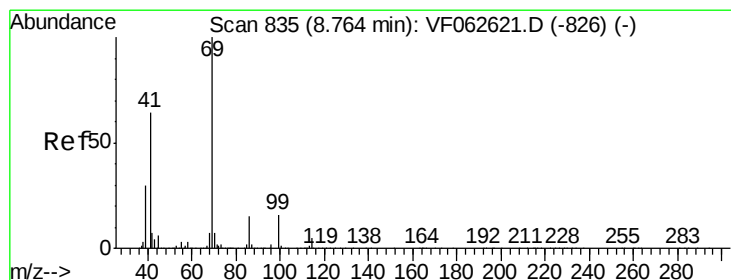
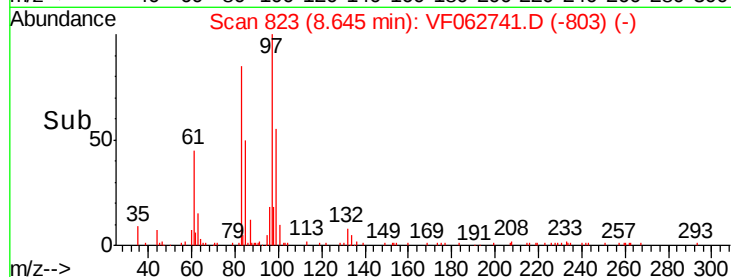
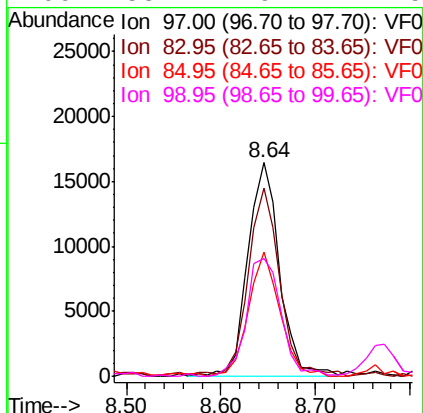
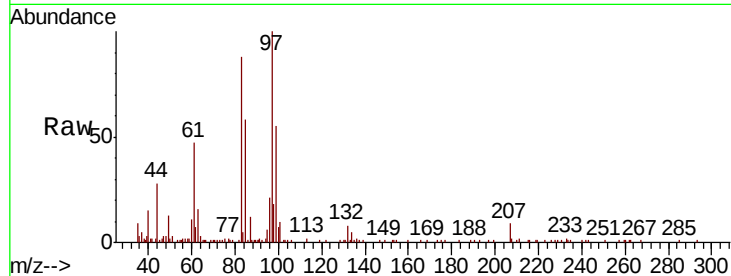




#55
 1,1,2-Trichloroethane
 Concen: 19.133 ug/l
 RT: 8.64 min Scan# 823
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

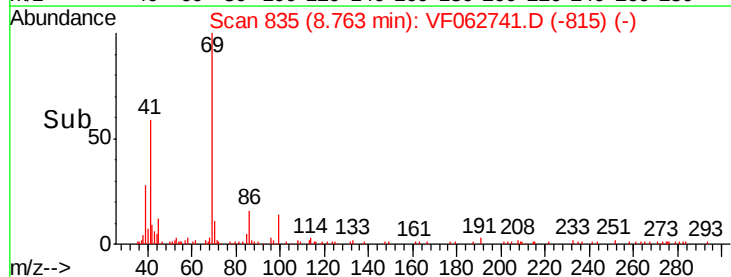
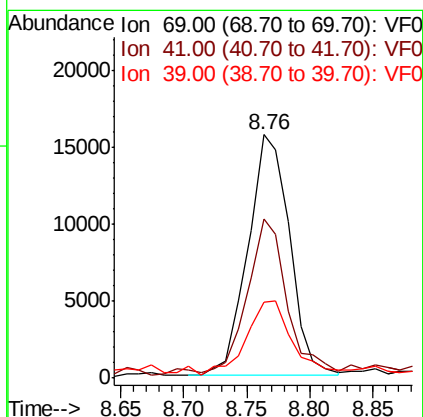
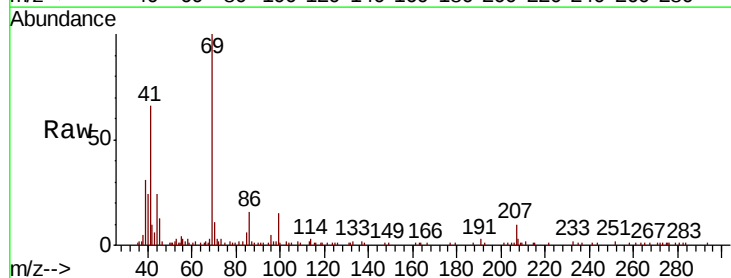
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

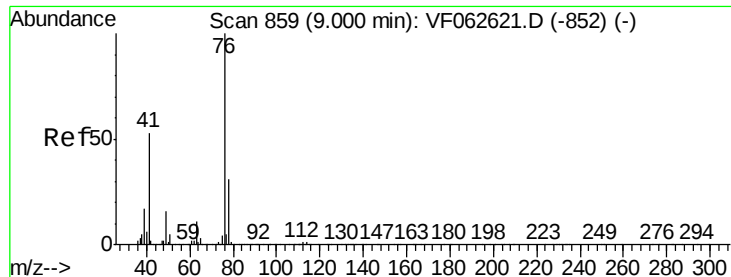
Tot Ion:	97	Resp:	38438
Ion	Ratio	Lower	Upper
97	100		
83	87.9	67.3	100.9
85	58.0	46.6	69.8
99	55.4	49.7	74.5



#56
 Ethyl methacrylate
 Concen: 15.069 ug/l
 RT: 8.76 min Scan# 835
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion:	69	Resp:	36068
Ion	Ratio	Lower	Upper
69	100		
41	65.6	51.4	77.2
39	31.0	23.6	35.4





#57

1,3-Dichloropropane

Concen: 18.235 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

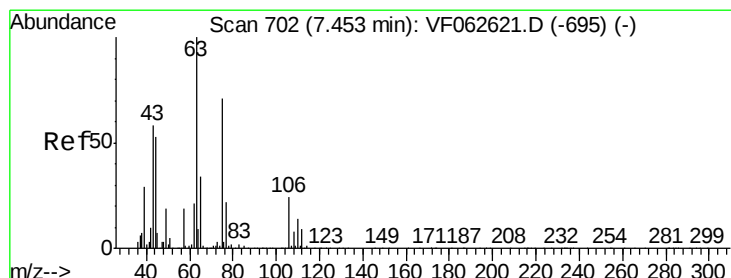
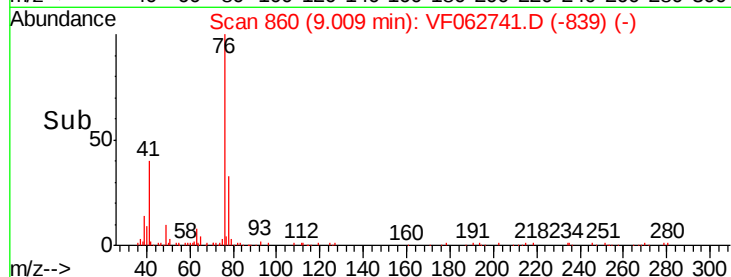
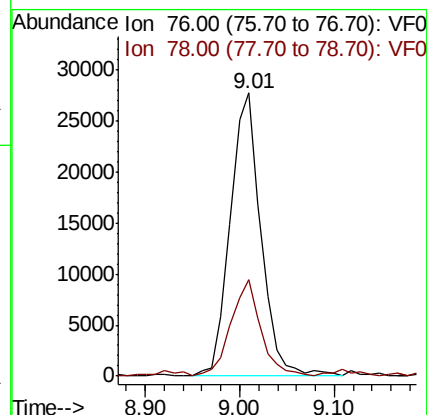
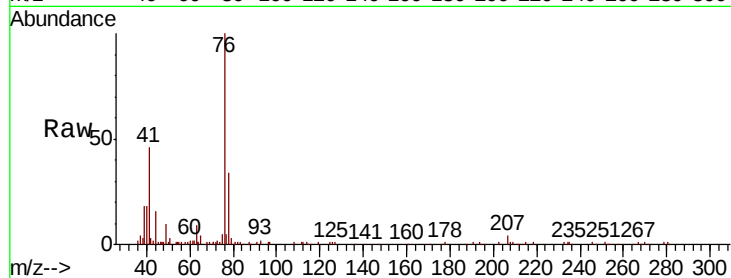
VF0524SBS01

Tot Ion: 76 Resp: 62398

Ion Ratio Lower Upper

76 100

78 34.3 25.4 38.0



#58

2-Chloroethyl Vinyl ether

Concen: 44.856 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062741.D

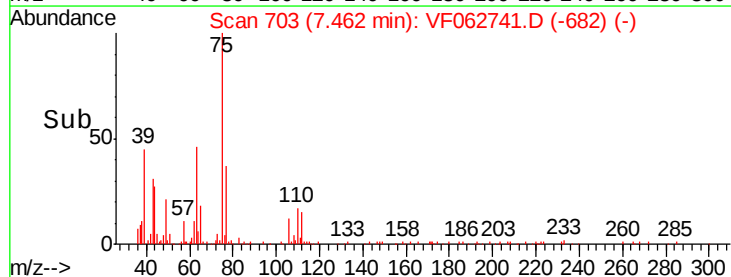
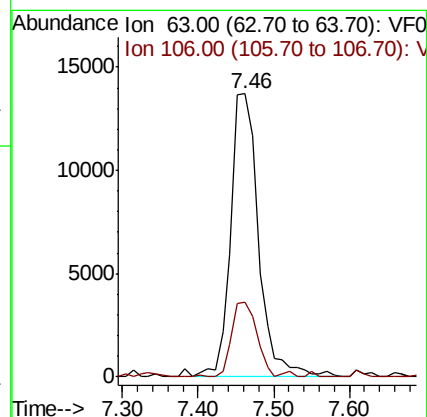
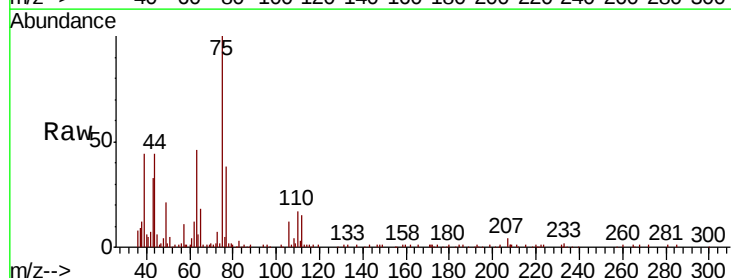
Acq: 24 May 2019 12:24

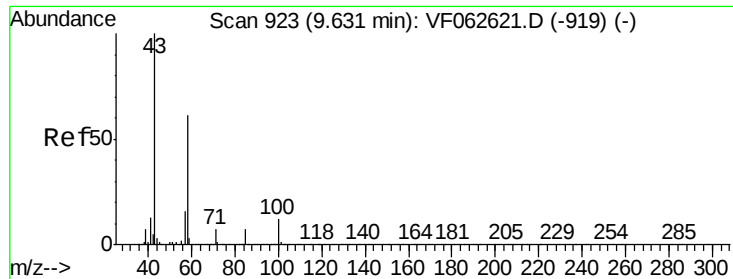
Tgt Ion: 63 Resp: 34946

Ion Ratio Lower Upper

63 100

106 26.5 19.1 28.7

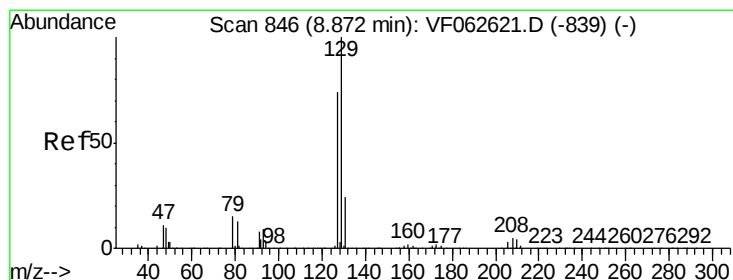
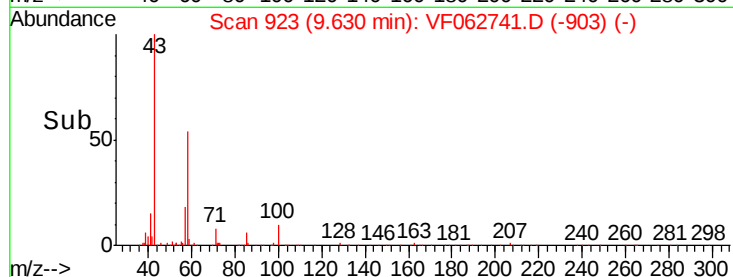
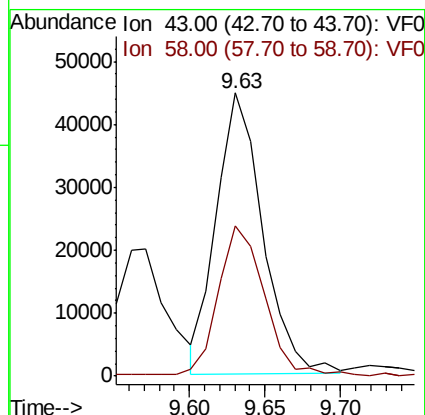
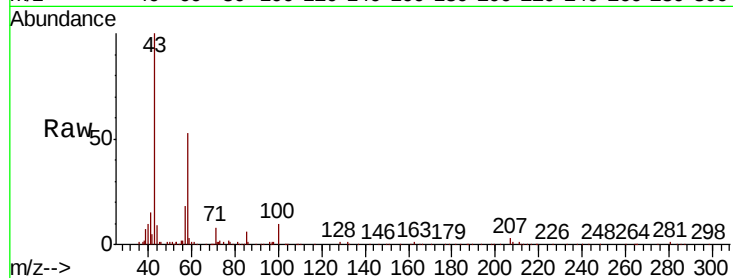




#59
2-Hexanone
Concen: 72.785 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

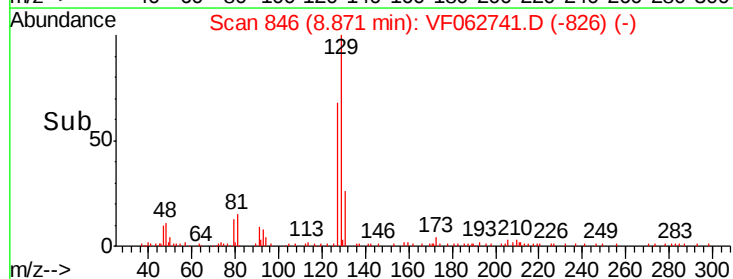
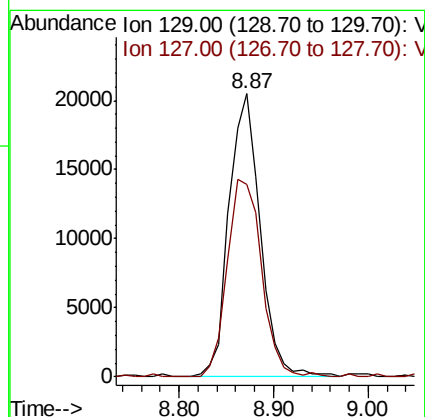
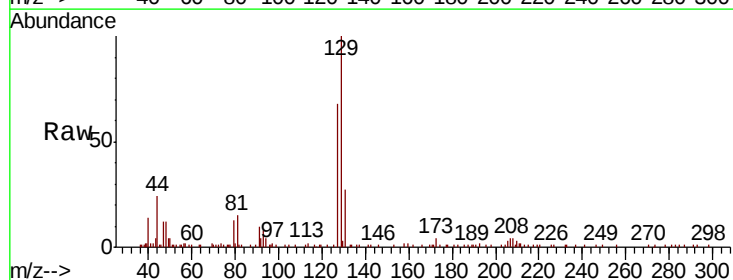
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

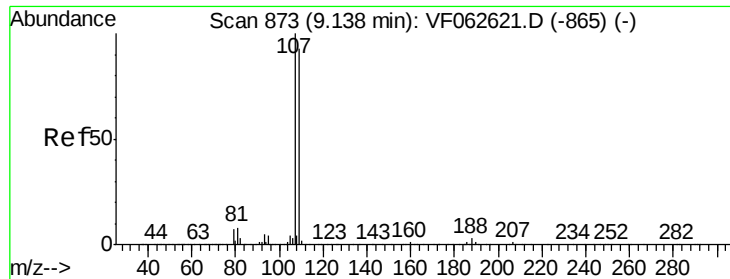
Tot Ion: 43 Resp: 95431
Ion Ratio Lower Upper
43 100
58 53.2 28.1 84.4



#60
Dibromochloromethane
Concen: 17.929 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion: 129 Resp: 46946
Ion Ratio Lower Upper
129 100
127 66.0 37.2 111.6





#61

1,2-Dibromoethane

Concen: 18.415 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

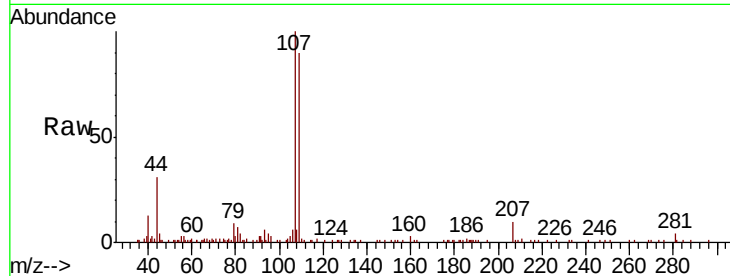
VF0524SBS01

Tot Ion:107 Resp: 39296

Ion Ratio Lower Upper

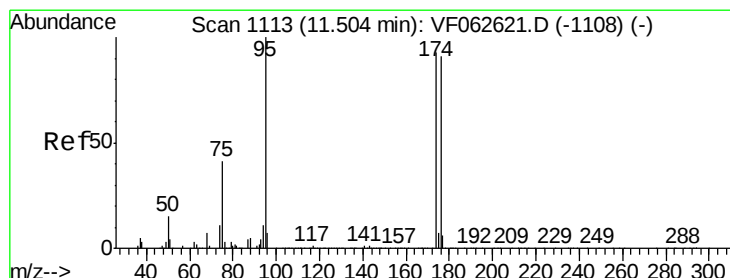
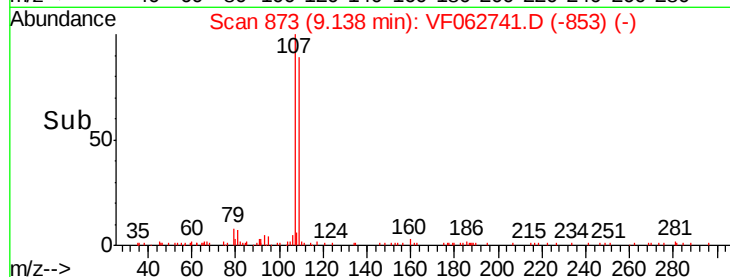
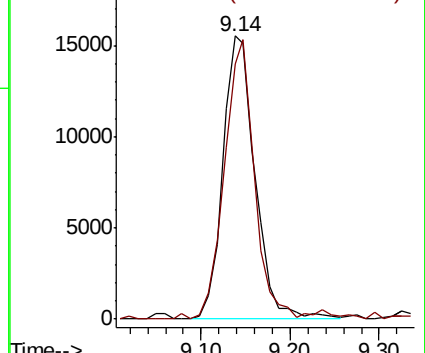
107 100

109 90.1 74.8 112.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 41.787 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

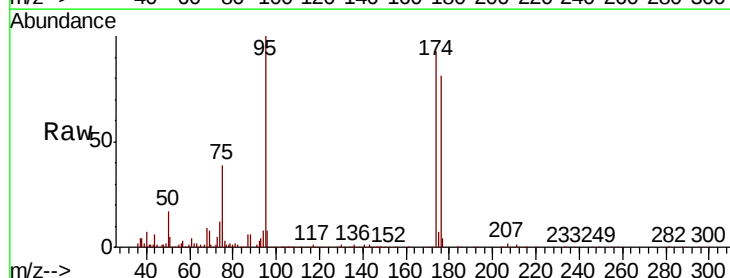
Tgt Ion: 95 Resp: 134198

Ion Ratio Lower Upper

95 100

174 93.1 0.0 185.6

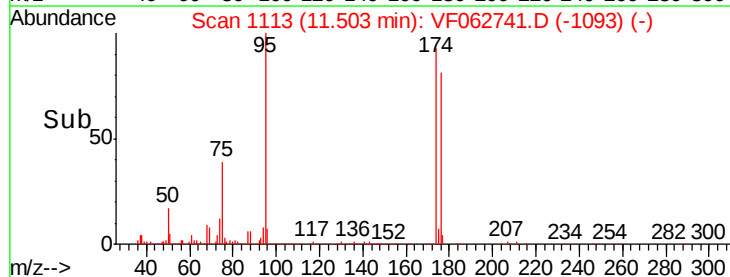
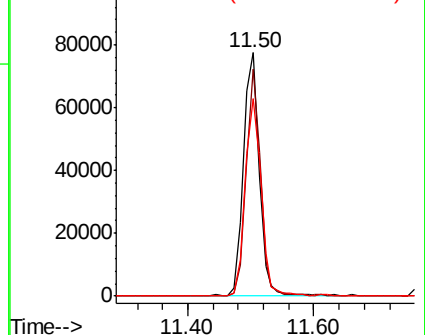
176 81.0 0.0 182.4

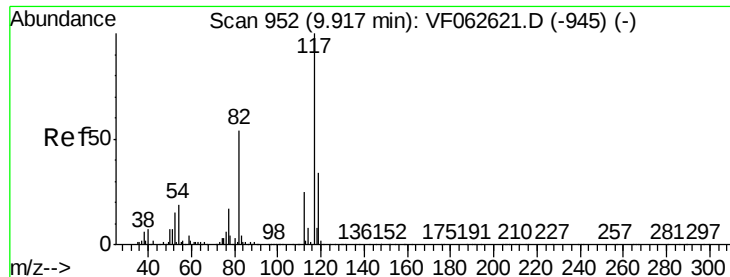


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

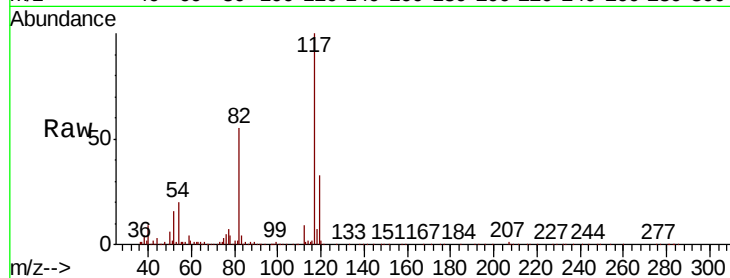




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.3	64.9
119	32.5	27.4	41.0

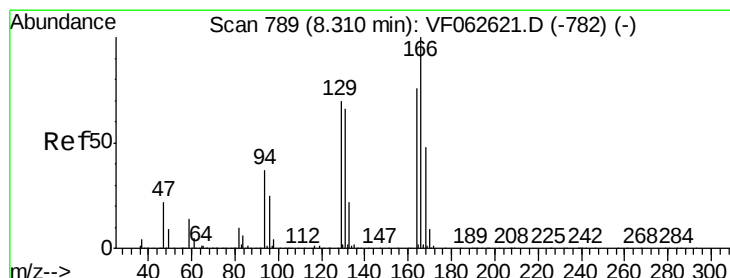
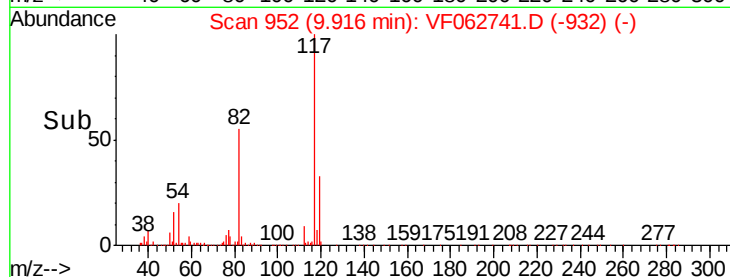
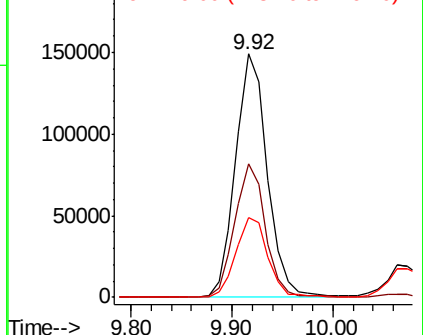


Abundance

Ion 117.00 (116.70 to 117.70): V

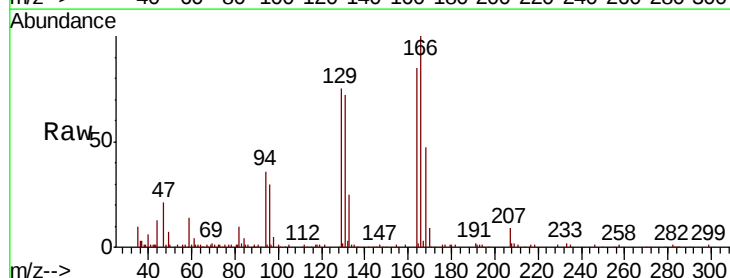
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 23.574 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.01 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.3	105.5	158.3
129	88.3	73.8	110.6
131	84.5	69.5	104.3



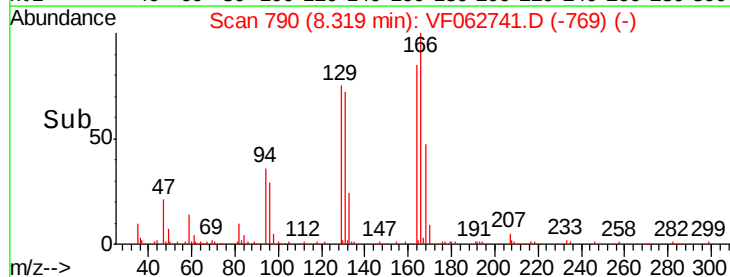
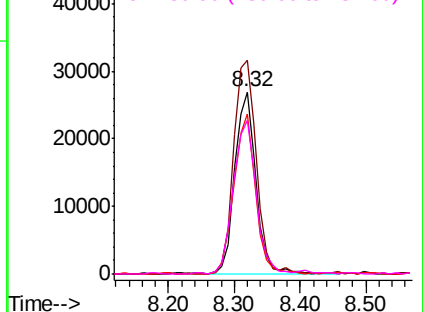
Abundance

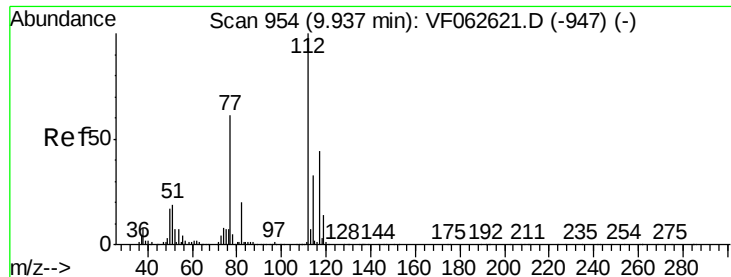
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

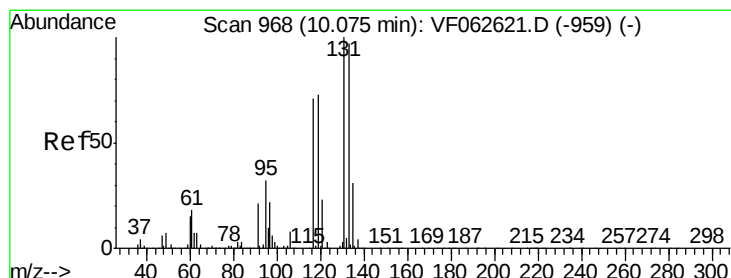
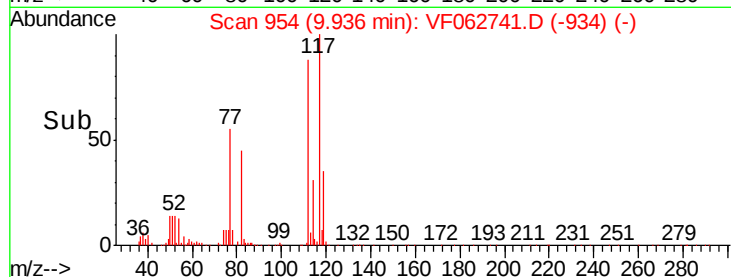
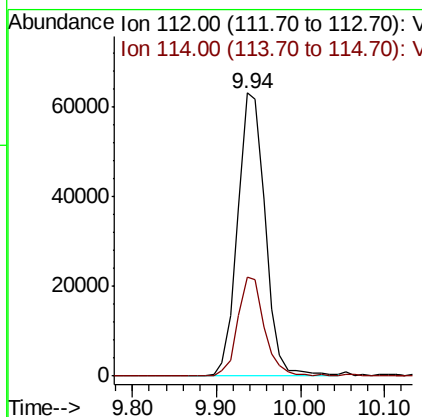
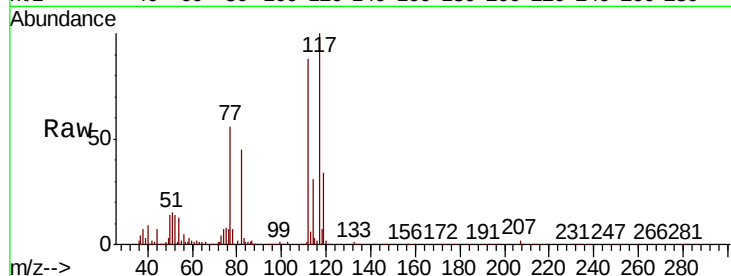




#65
Chlorobenzene
Concen: 22.386 ug/l
RT: 9.94 min Scan# 954
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

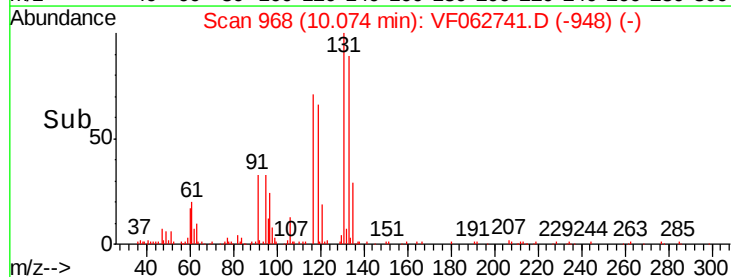
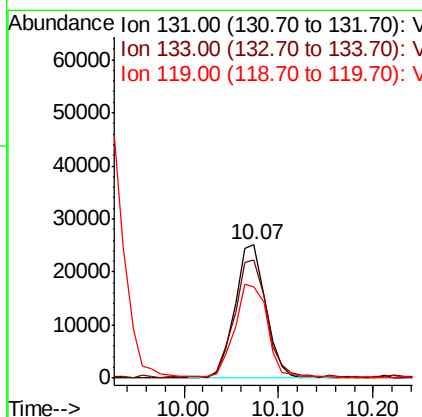
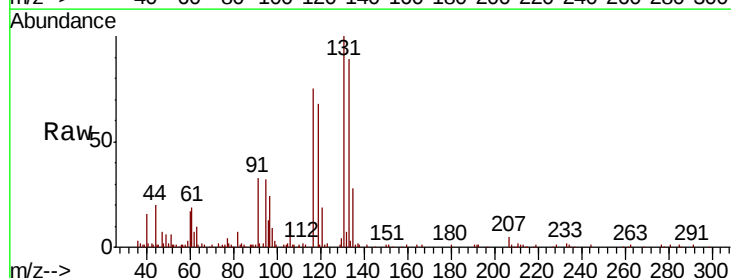
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

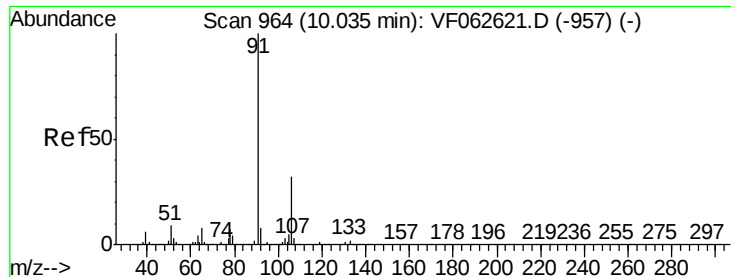
Tot Ion:112 Resp: 144298
Ion Ratio Lower Upper
112 100
114 35.2 26.8 40.2



#66
1,1,1,2-Tetrachloroethane
Concen: 22.086 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion:131 Resp: 57151
Ion Ratio Lower Upper
131 100
133 88.7 48.5 145.5
119 68.3 36.8 110.4

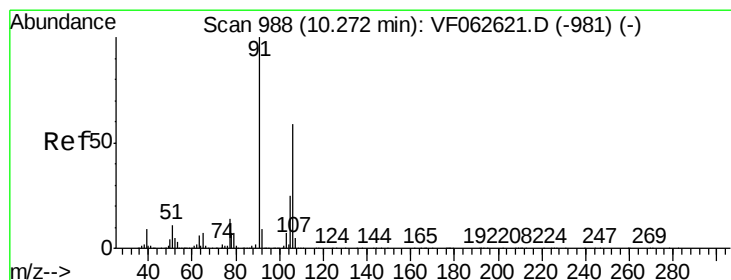
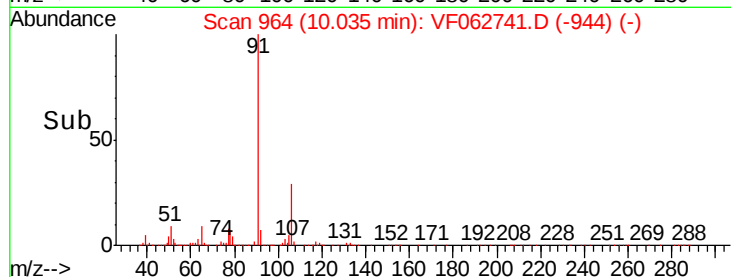
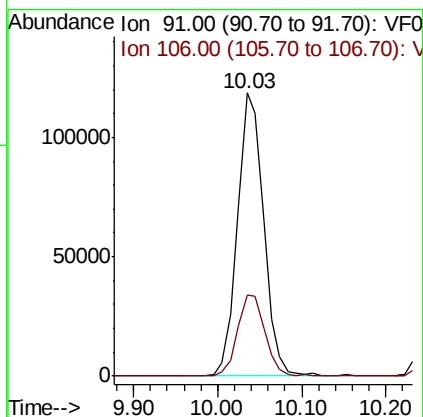
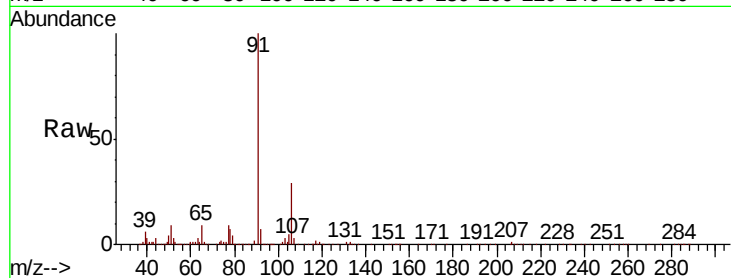




#67
Ethyl Benzene
Concen: 23.033 ug/l
RT: 10.03 min Scan# 964
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

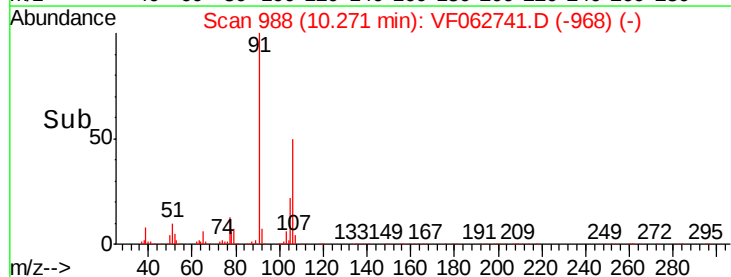
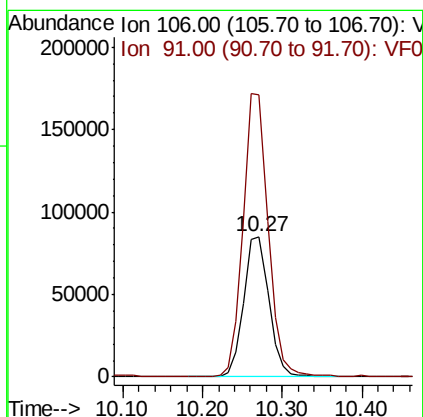
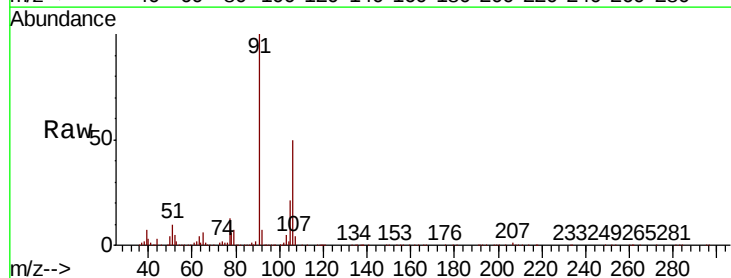
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

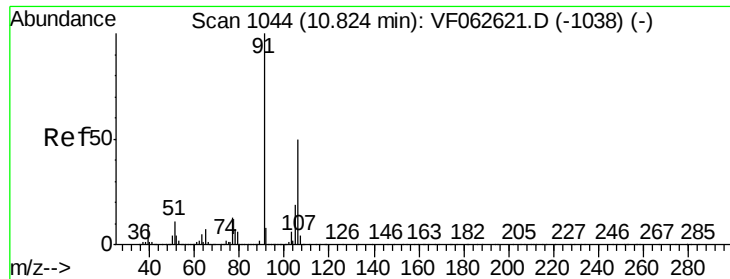
Tot Ion: 91 Resp: 257929
Ion Ratio Lower Upper
91 100
106 28.6 25.8 38.8



#68
m/p-Xylenes
Concen: 44.323 ug/l
RT: 10.27 min Scan# 988
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion: 106 Resp: 186542
Ion Ratio Lower Upper
106 100
91 200.8 136.9 205.3

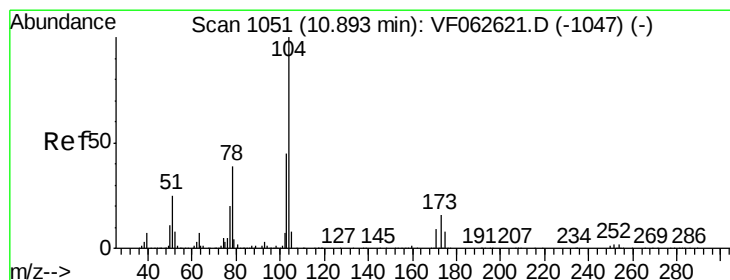
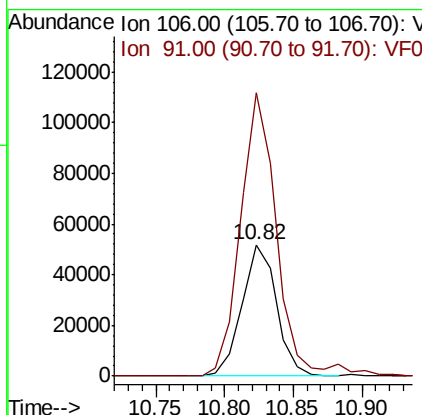
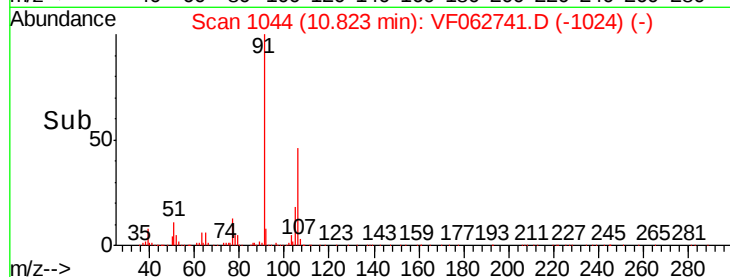
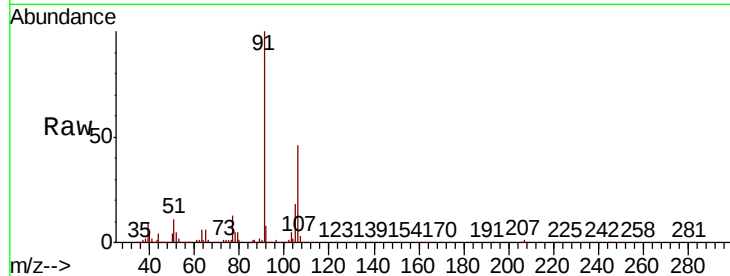




#69
o-Xylene
Concen: 21.017 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

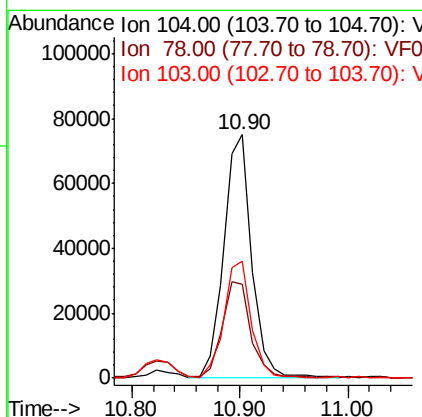
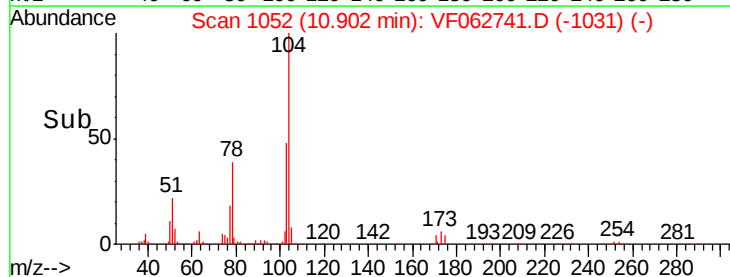
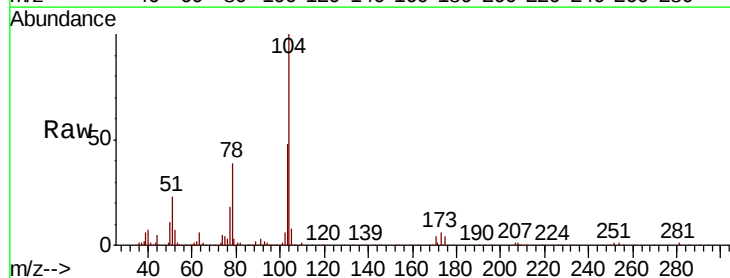
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

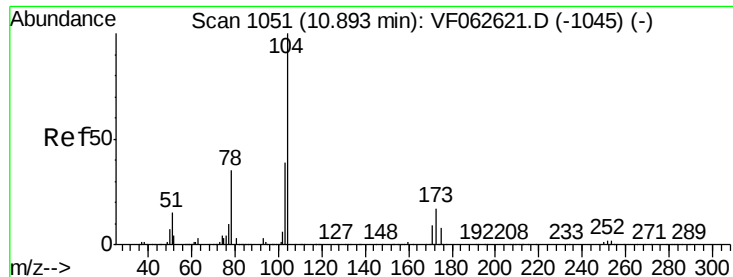
Tot Ion:106 Resp: 91109
Ion Ratio Lower Upper
106 100
91 215.8 100.2 300.5



#70
Styrene
Concen: 20.207 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion:104 Resp: 133140
Ion Ratio Lower Upper
104 100
78 38.6 31.9 47.9
103 47.8 36.1 54.1





#71

Bromoform

Concen: 19.487 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

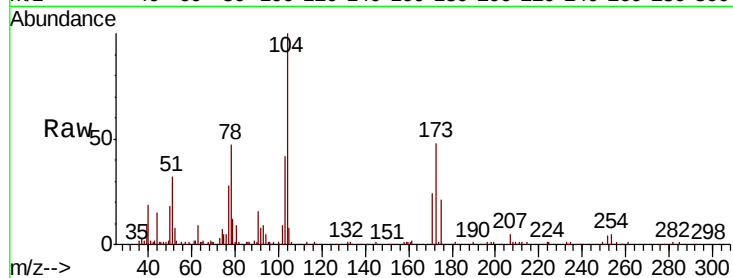
Tot Ion:173 Resp: 25256

Ion Ratio Lower Upper

173 100

175 44.8 25.3 75.9

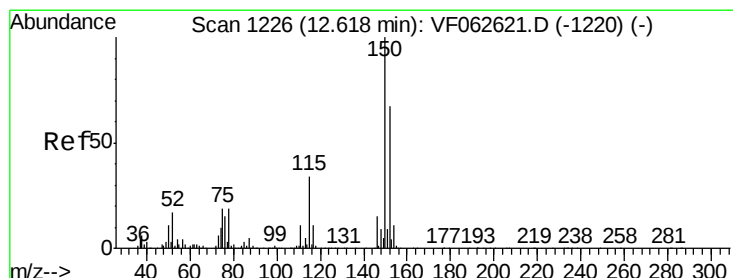
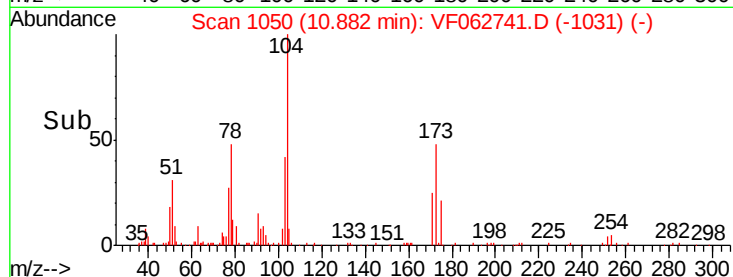
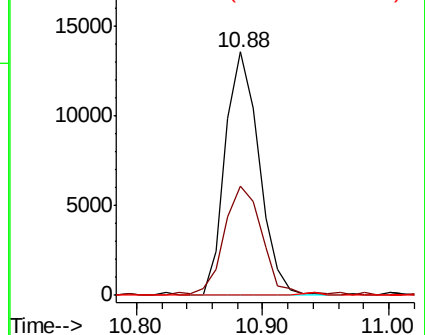
254 0.0 0.2 0.2#



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: 12.62 min Scan# 1226

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

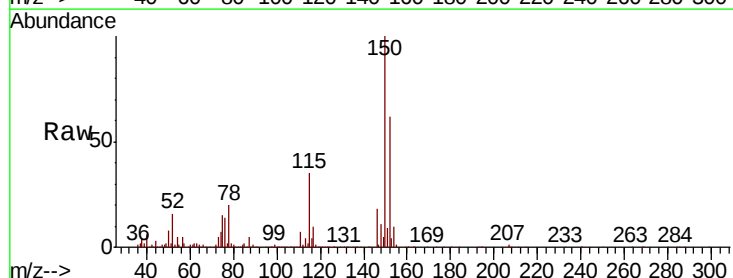
Tgt Ion:152 Resp: 157278

Ion Ratio Lower Upper

152 100

115 55.8 25.2 75.6

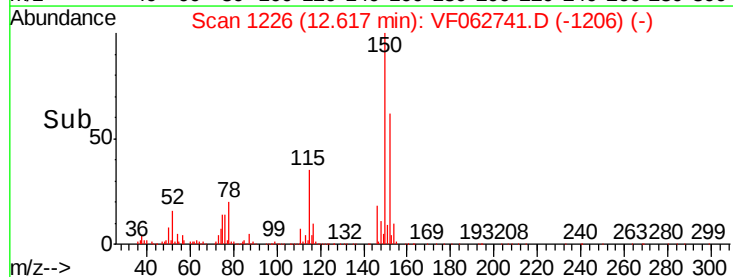
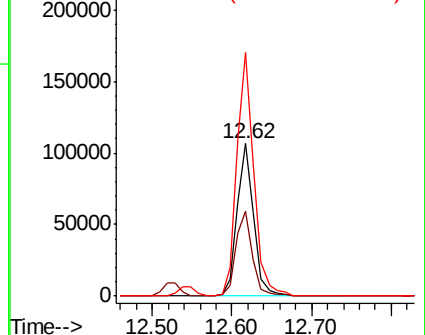
150 160.0 0.0 306.2

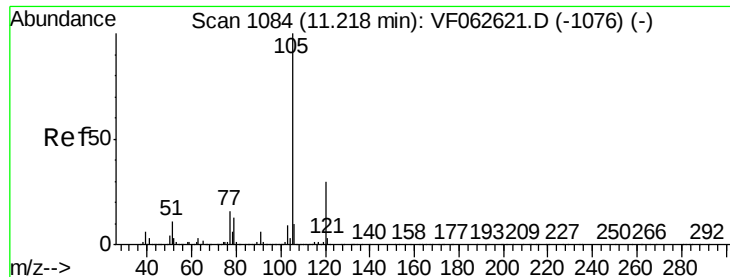


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.157 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

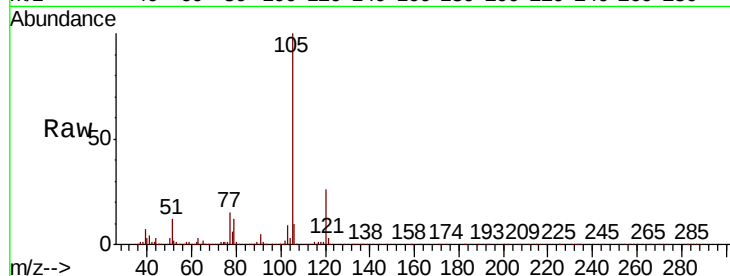
VF0524SBS01

Tot Ion:105 Resp: 261033

Ion Ratio Lower Upper

105 100

120 26.2 14.8 44.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

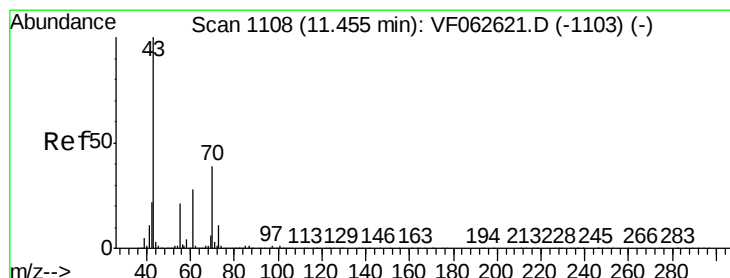
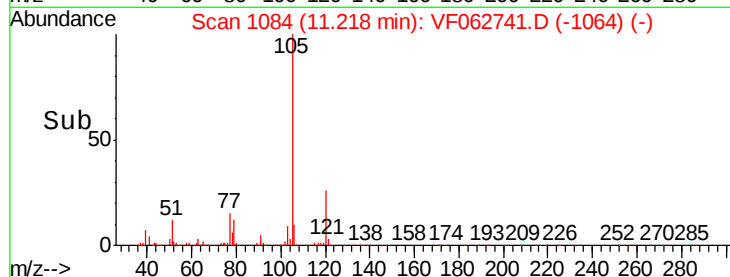
150000

100000

50000

0

Time--> 11.10 11.20 11.30 11.40



#74

N-ethyl acetate

Concen: 13.311 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion: 43 Resp: 49536

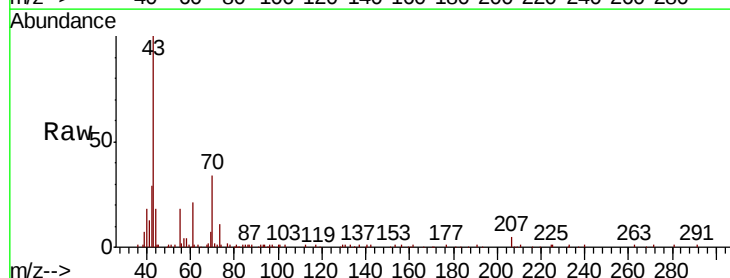
Ion Ratio Lower Upper

43 100

70 34.5 30.9 46.3

55 18.4 17.0 25.4

61 21.2 22.6 34.0#



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

40000

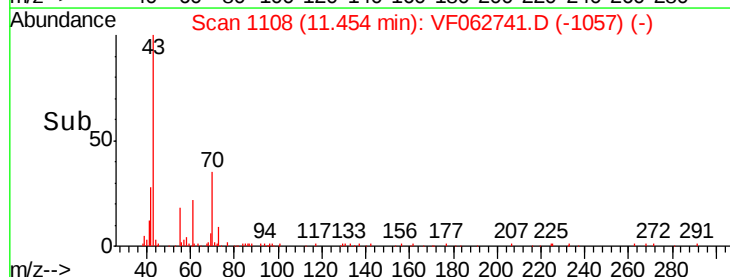
30000

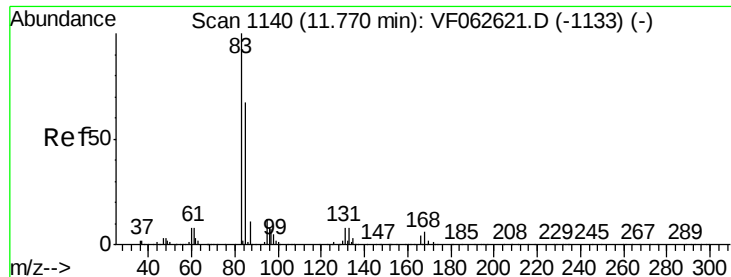
20000

10000

0

Time--> 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 21.442 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

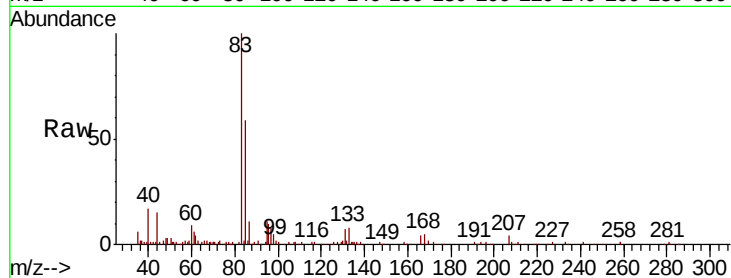
Tot Ion: 83 Resp: 49395

Ion Ratio Lower Upper

83 100

131 6.6 4.0 12.0

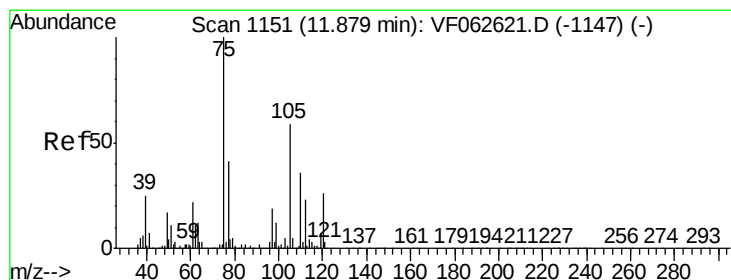
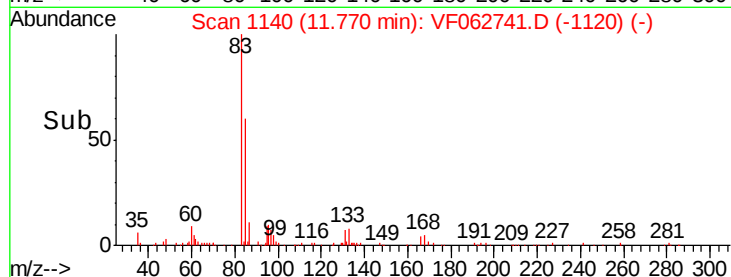
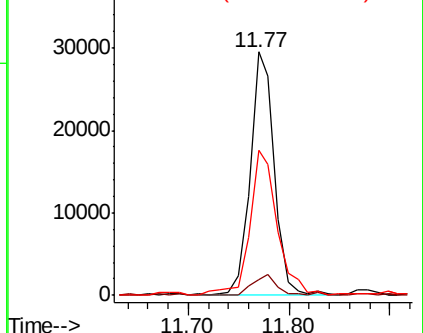
85 59.5 33.5 100.5



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: 19.911 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.00 min

Lab File: VF062741.D

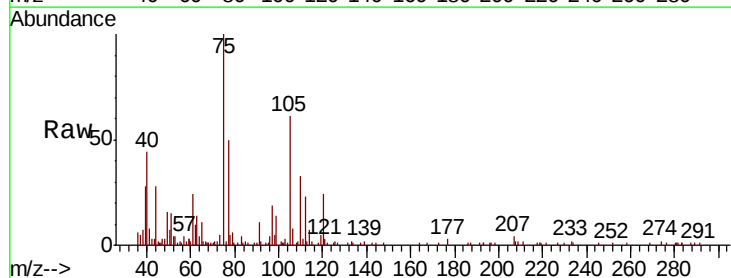
Acq: 24 May 2019 12:24

Tgt Ion: 75 Resp: 30139

Ion Ratio Lower Upper

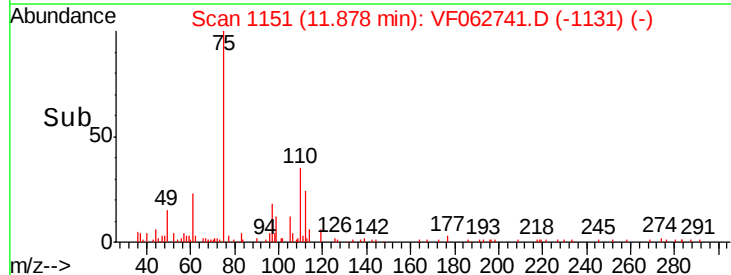
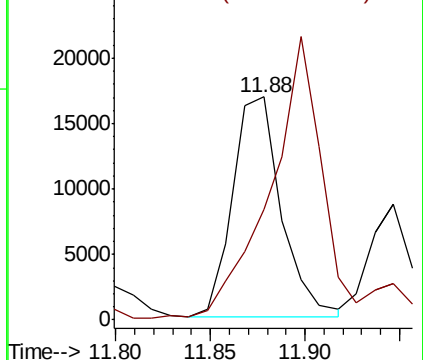
75 100

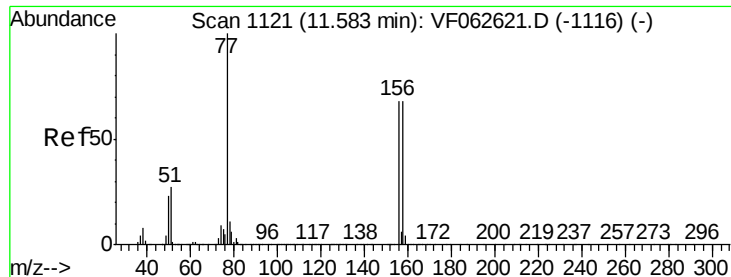
77 49.5 20.6 61.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.039 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

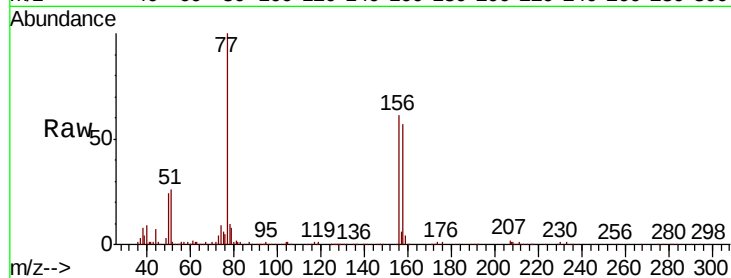
Tot Ion:156 Resp: 58950

Ion Ratio Lower Upper

156 100

77 163.9 73.6 220.8

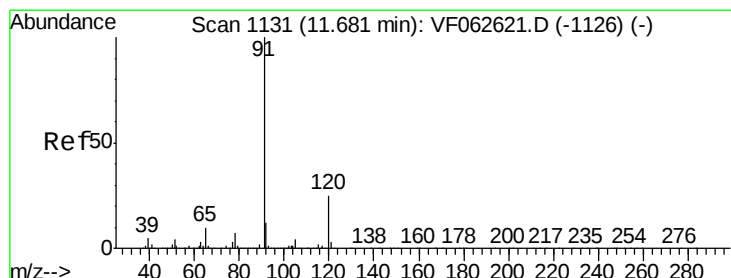
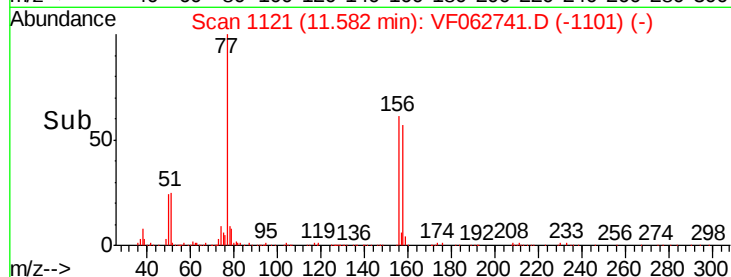
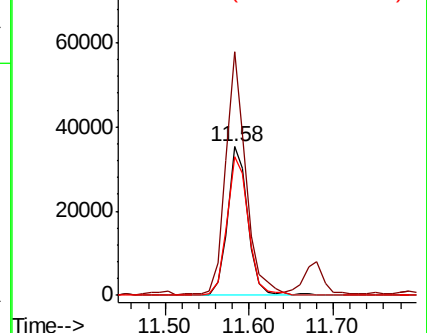
158 93.3 49.6 148.8



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: 25.021 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF062741.D

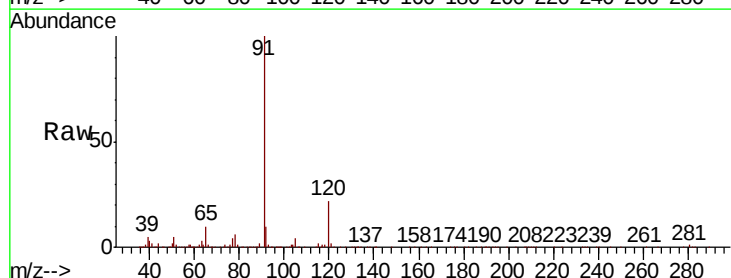
Acq: 24 May 2019 12:24

Tgt Ion: 91 Resp: 333791

Ion Ratio Lower Upper

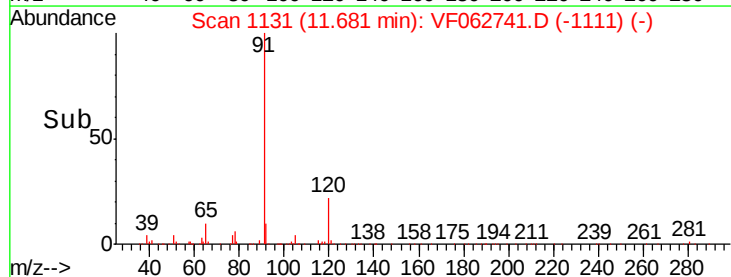
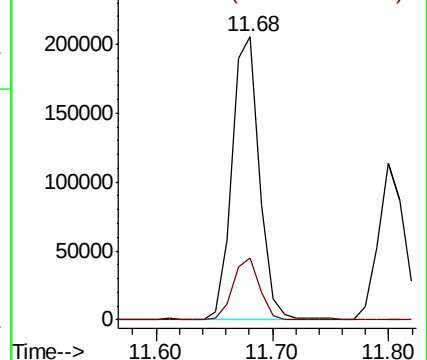
91 100

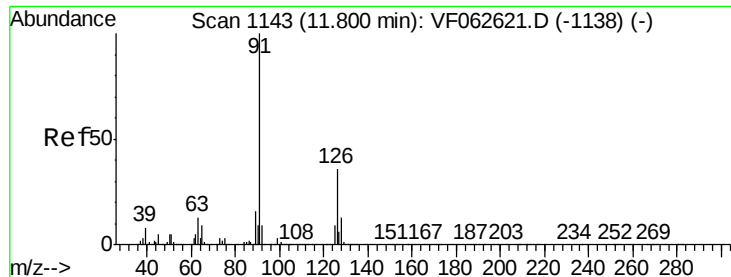
120 21.8 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.128 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

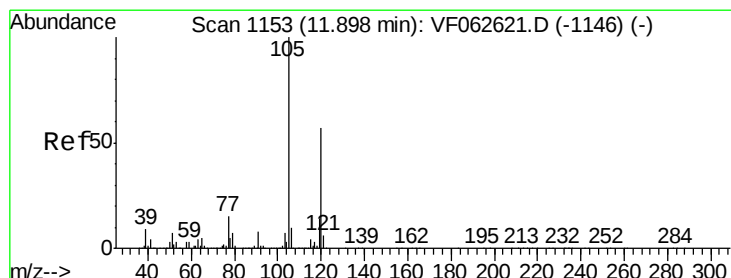
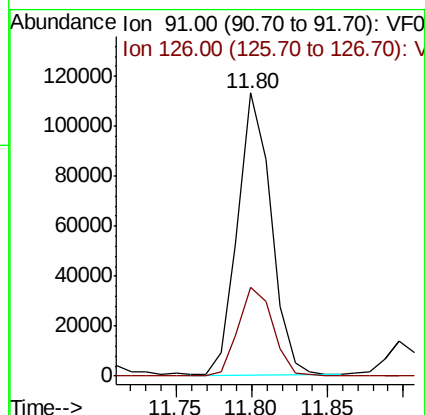
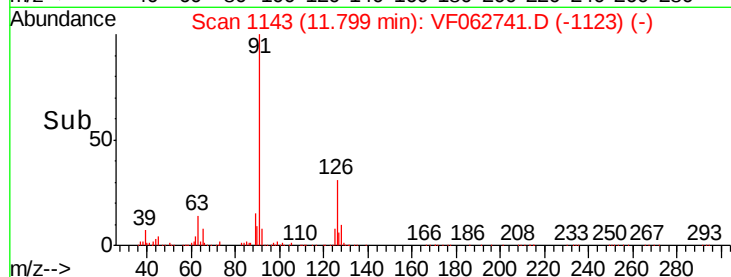
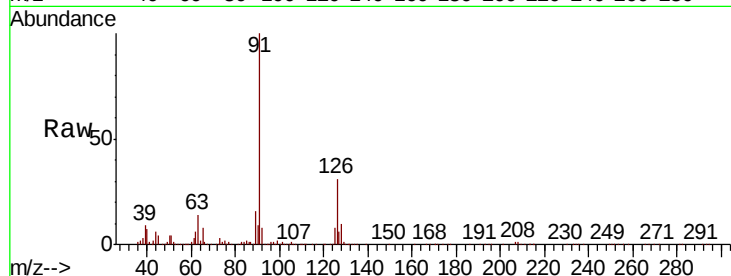
VF0524SBS01

Tot Ion: 91 Resp: 173885

Ion Ratio Lower Upper

91 100

126 31.3 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 24.415 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VF062741.D

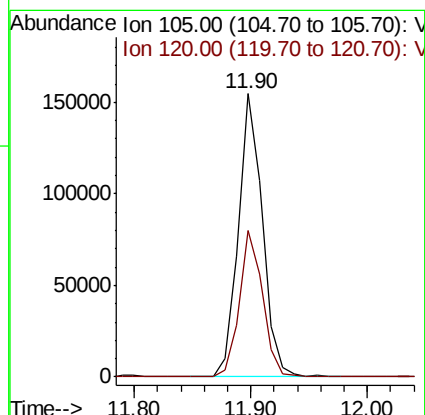
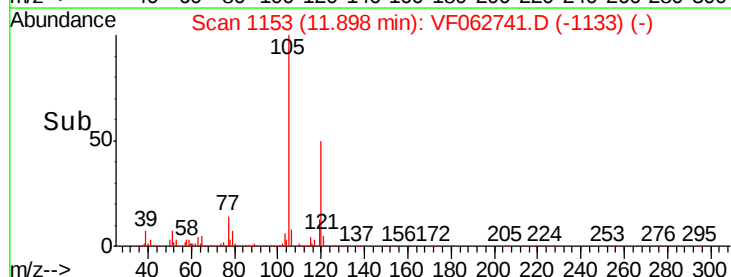
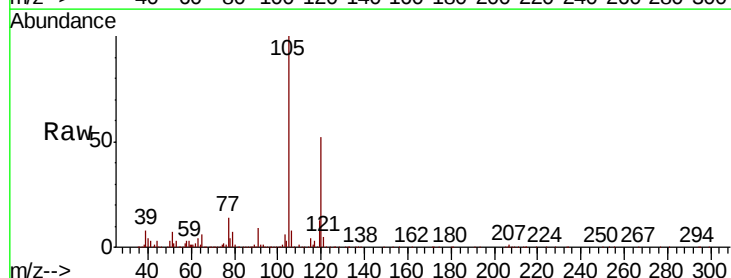
Acq: 24 May 2019 12:24

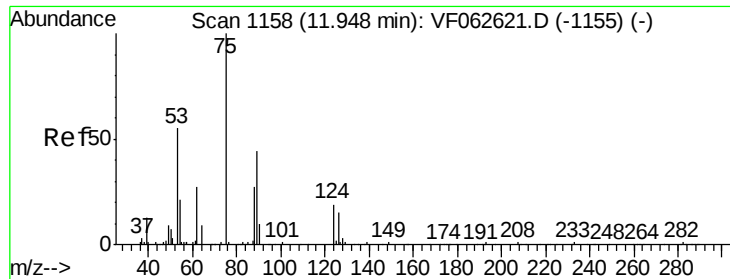
Tgt Ion: 105 Resp: 220679

Ion Ratio Lower Upper

105 100

120 51.6 28.7 86.3





#81

trans-1,4-Dichloro-2-butene

Concen: 26.466 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

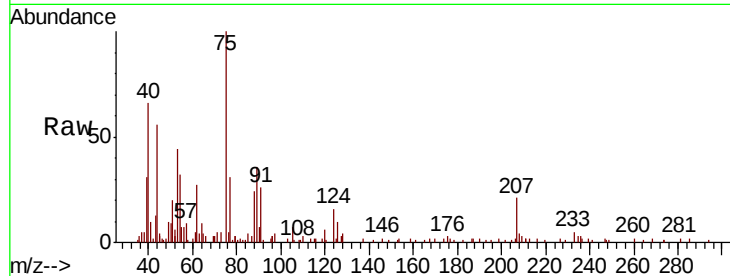
Tot Ion: 75 Resp: 17807

Ion Ratio Lower Upper

75 100

53 44.2 46.9 70.3#

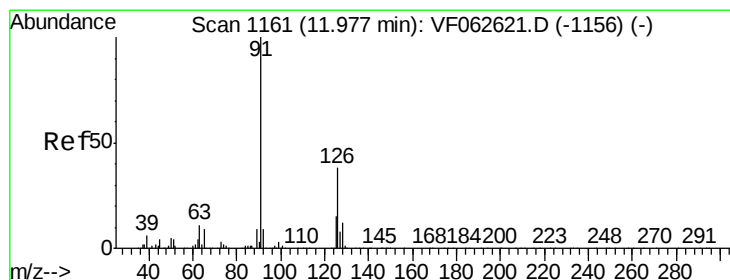
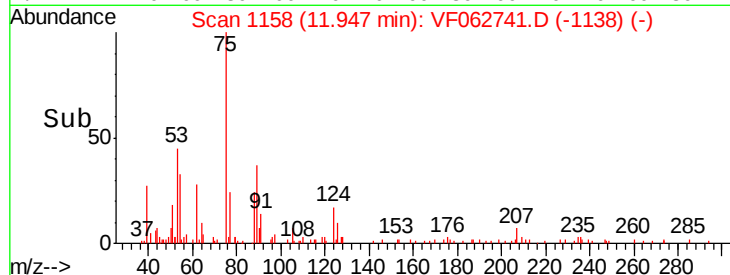
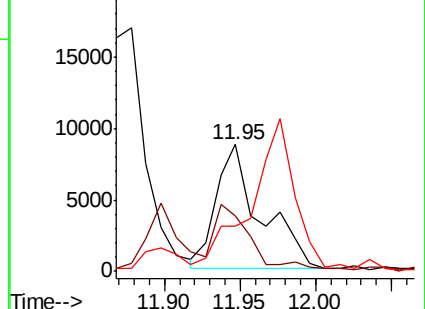
89 35.8 36.4 54.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 23.341 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. -0.00 min

Lab File: VF062741.D

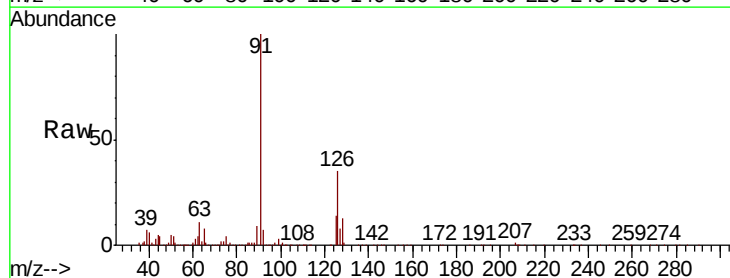
Acq: 24 May 2019 12:24

Tgt Ion: 91 Resp: 173050

Ion Ratio Lower Upper

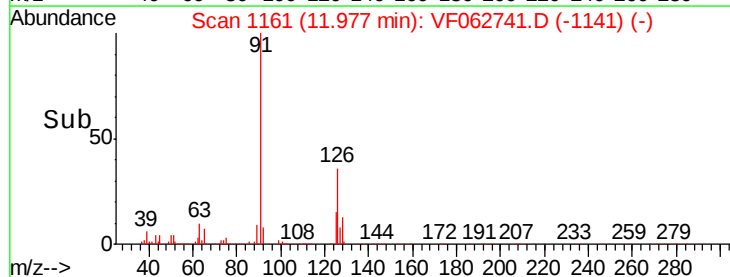
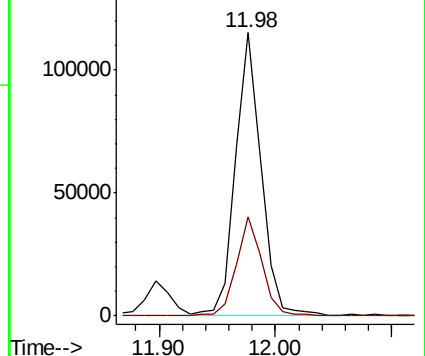
91 100

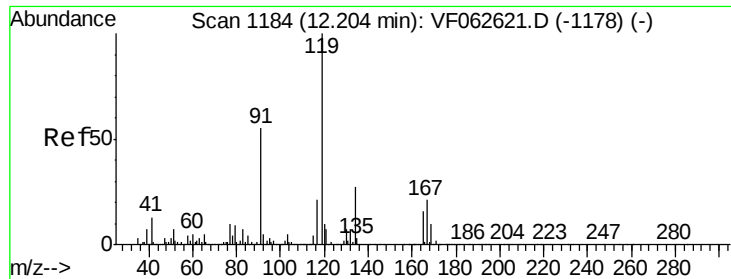
126 34.9 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

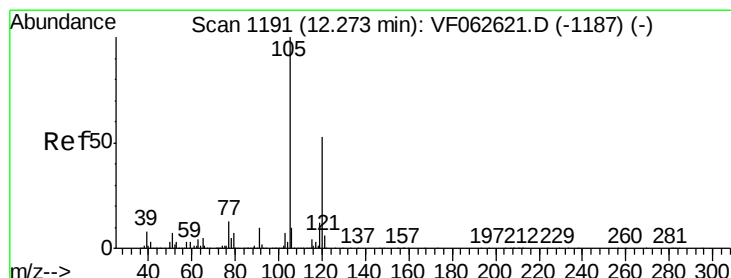
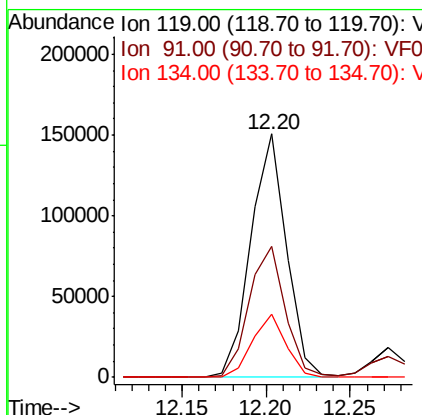
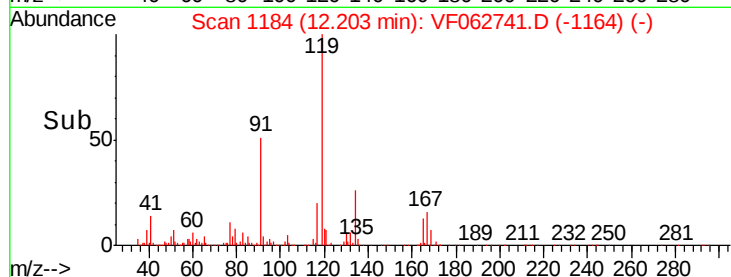
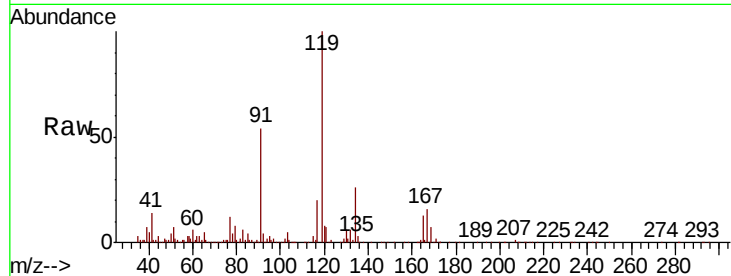




#83
tert-Butylbenzene
Concen: 24.253 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

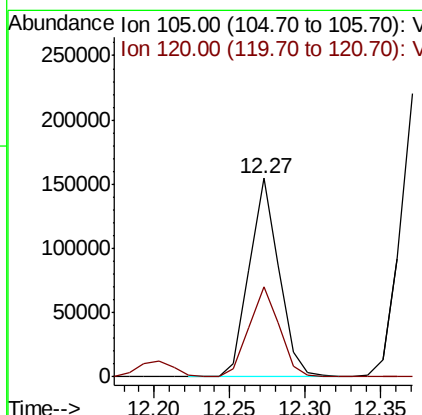
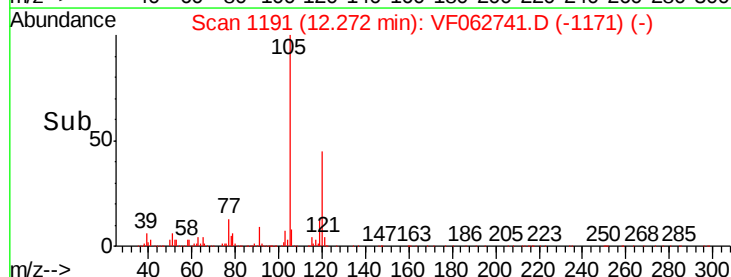
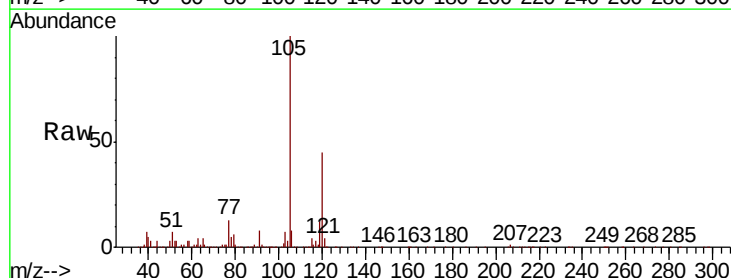
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

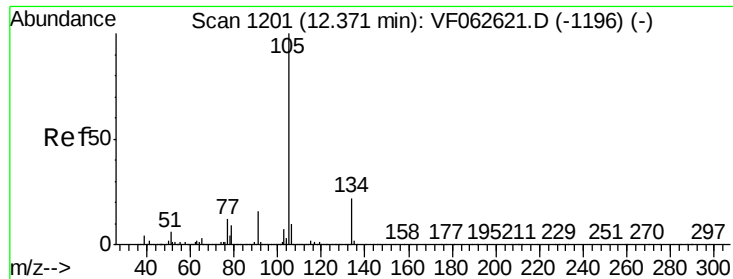
Tot Ion:119 Resp: 222407
Ion Ratio Lower Upper
119 100
91 53.5 27.3 81.9
134 26.1 13.6 40.7



#84
1,2,4-Trimethylbenzene
Concen: 24.343 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion:105 Resp: 212959
Ion Ratio Lower Upper
105 100
120 45.5 26.7 80.1

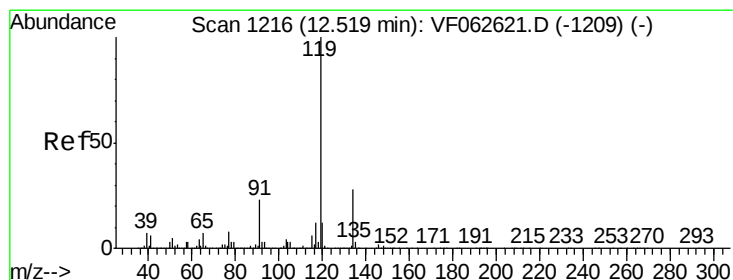
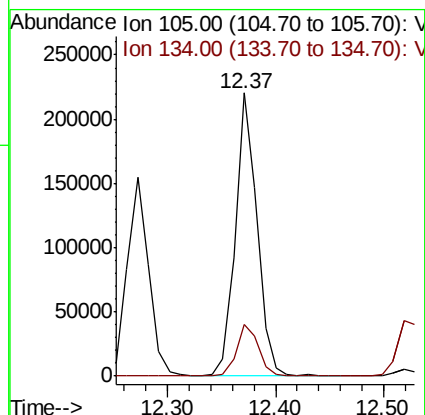
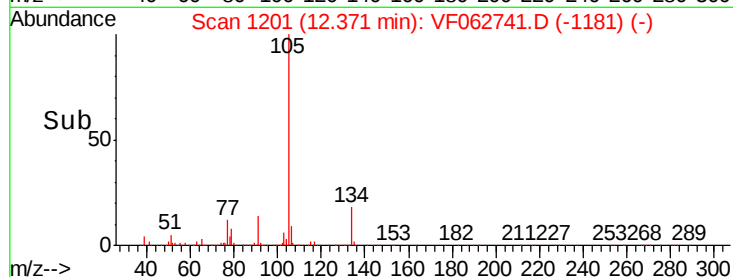
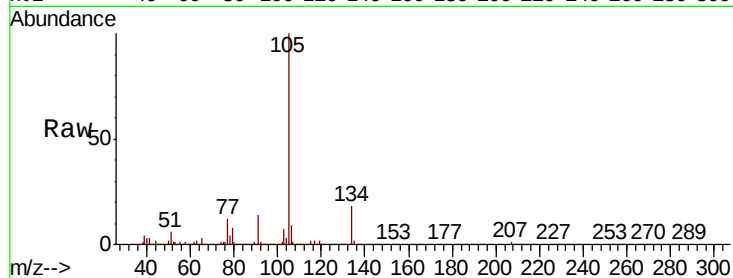




#85
 sec-Butylbenzene
 Concen: 25.005 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

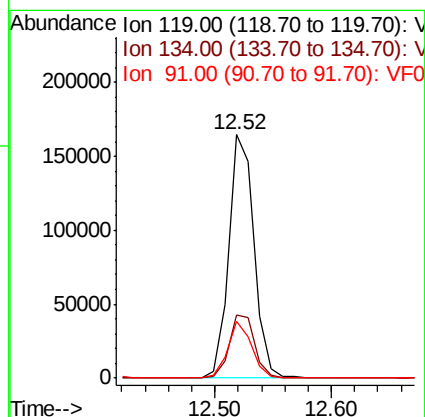
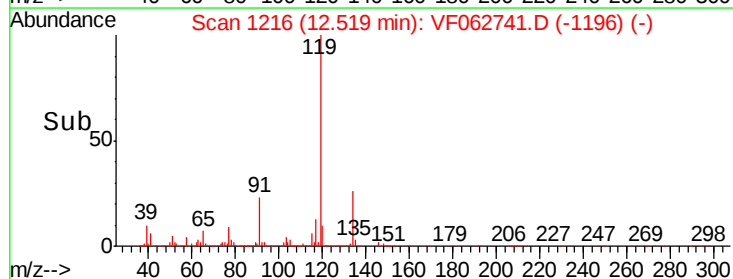
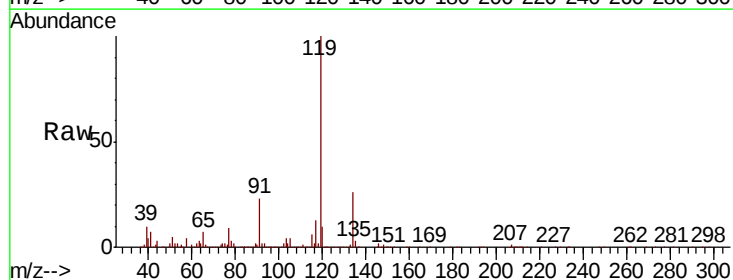
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

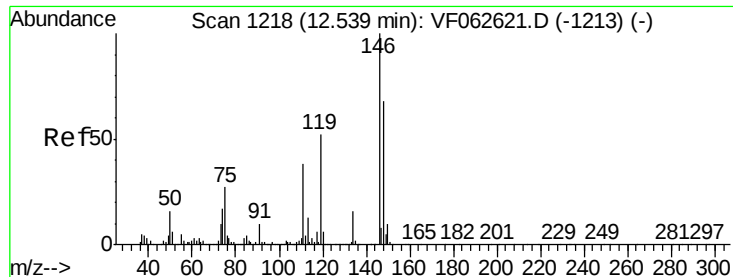
Tot Ion:105 Resp: 307729
 Ion Ratio Lower Upper
 105 100
 134 18.5 10.8 32.4



#86
 p-Isopropyltoluene
 Concen: 23.828 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion:119 Resp: 247134
 Ion Ratio Lower Upper
 119 100
 134 26.1 14.1 42.3
 91 23.2 11.4 34.2

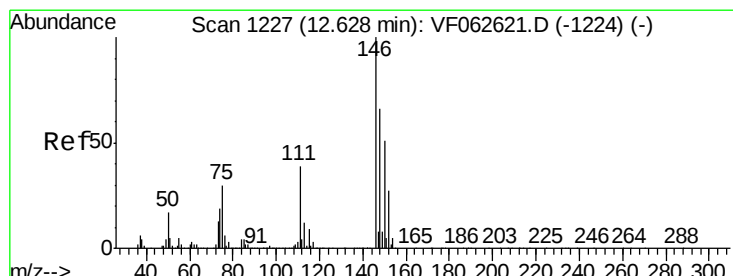
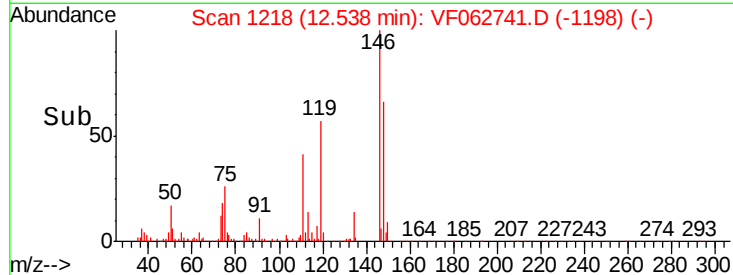
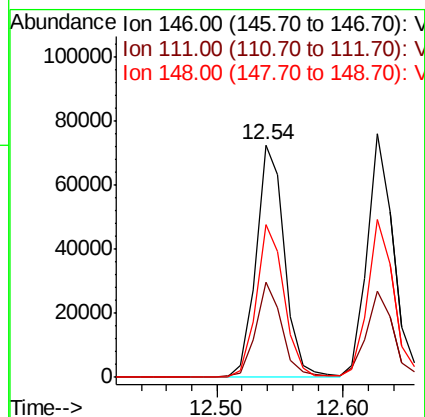
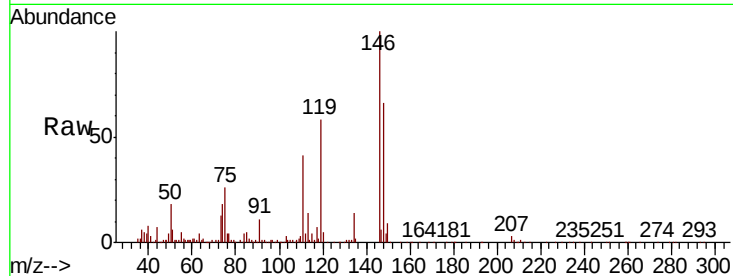




#87
 1,3-Dichlorobenzene
 Concen: 22.534 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

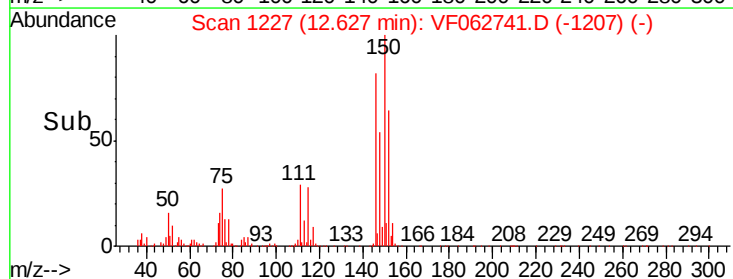
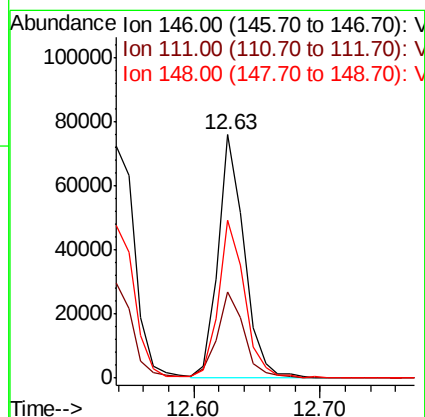
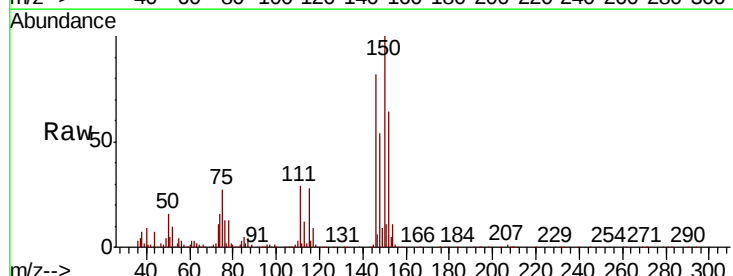
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

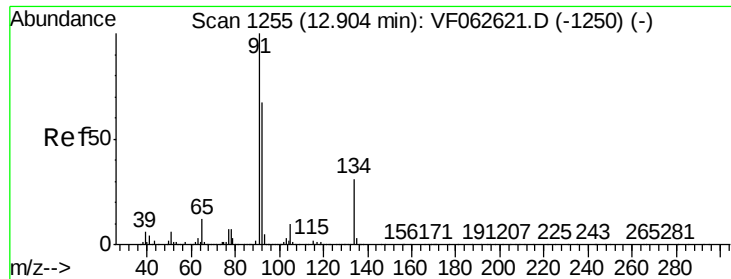
Tot Ion:146 Resp: 114232
 Ion Ratio Lower Upper
 146 100
 111 40.9 18.9 56.9
 148 65.7 34.0 101.8



#88
 1,4-Dichlorobenzene
 Concen: 23.193 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion:146 Resp: 110334
 Ion Ratio Lower Upper
 146 100
 111 35.7 19.4 58.2
 148 64.9 33.2 99.6

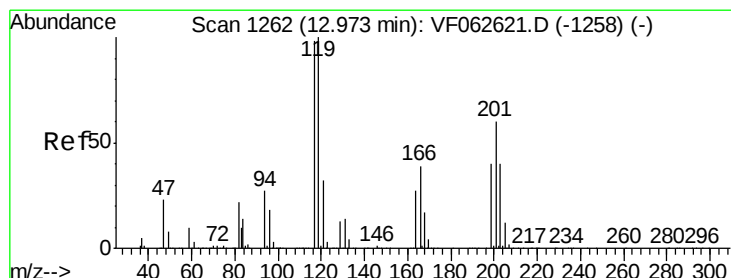
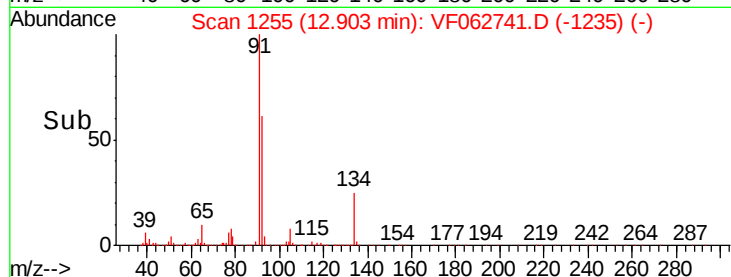
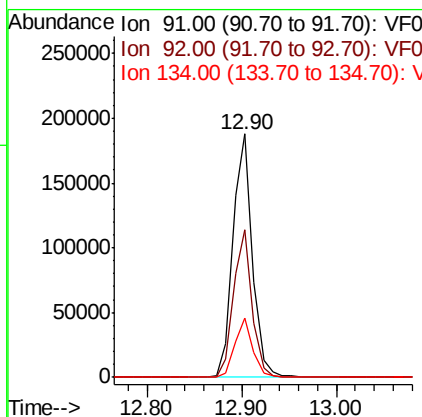
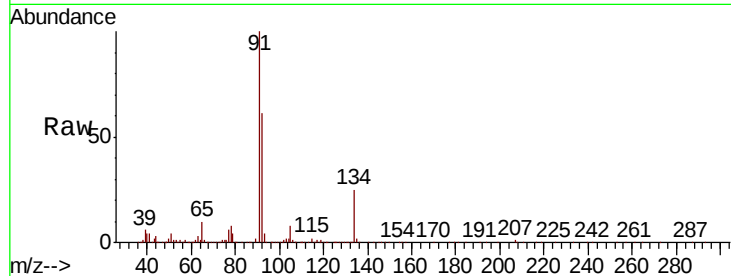




#89
n-Butylbenzene
Concen: 26.127 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

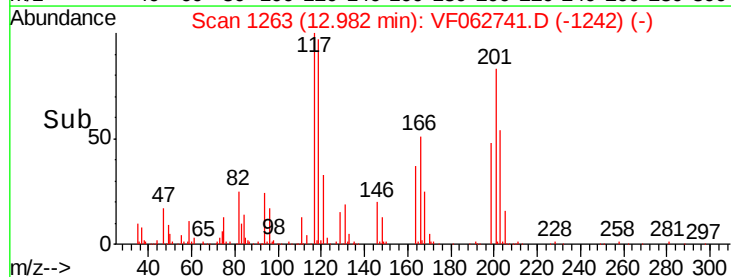
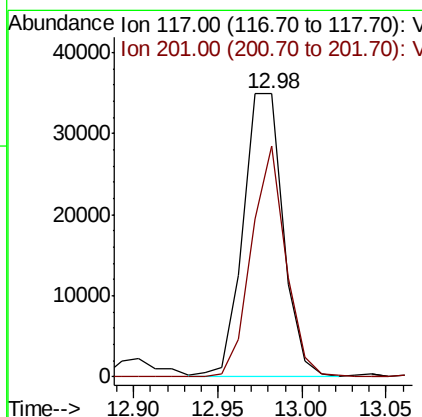
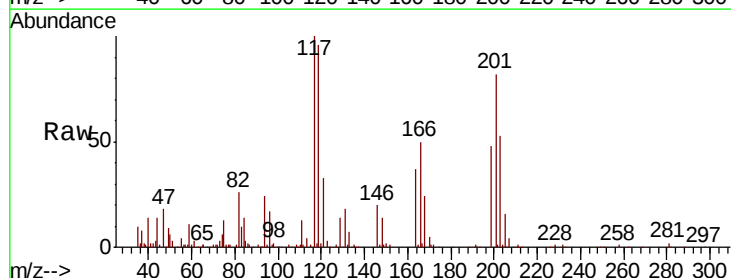
Instrument :
MSVOA_F
ClientSampleId :
VF0524SBS01

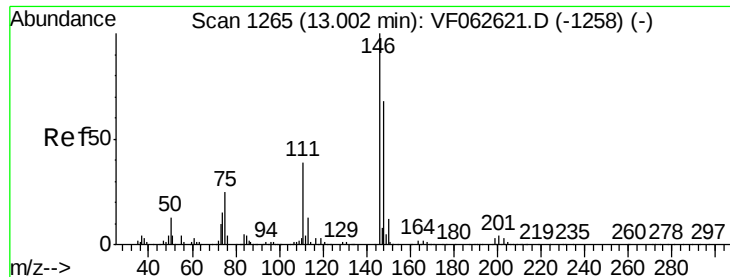
Tot Ion	Ratio	Lower	Upper
91	100		
92	60.6	33.3	99.8
134	24.5	15.4	46.4



#90
Hexachloroethane
Concen: 23.257 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VF062741.D
Acq: 24 May 2019 12:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.7	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 21.889 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

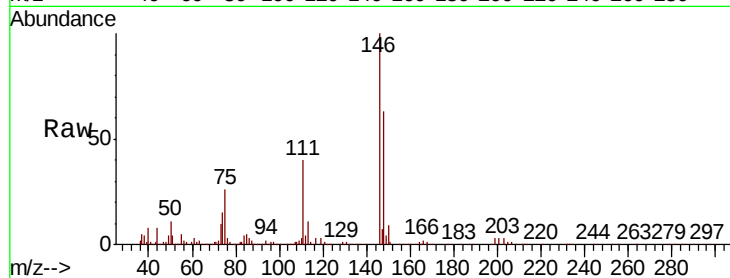
Tot Ion:146 Resp: 98911

Ion Ratio Lower Upper

146 100

111 39.6 19.8 59.3

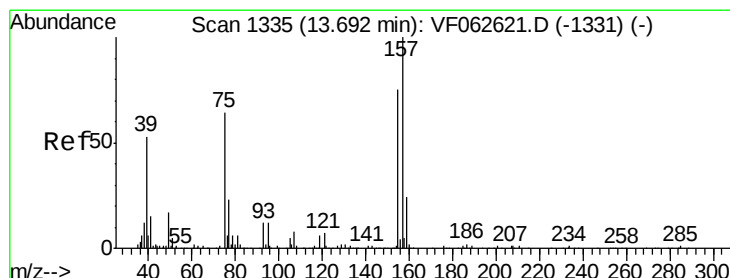
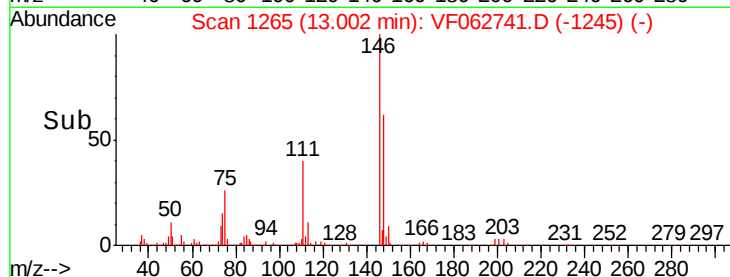
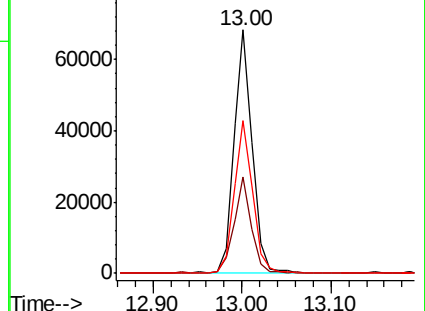
148 62.6 34.1 102.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.593 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

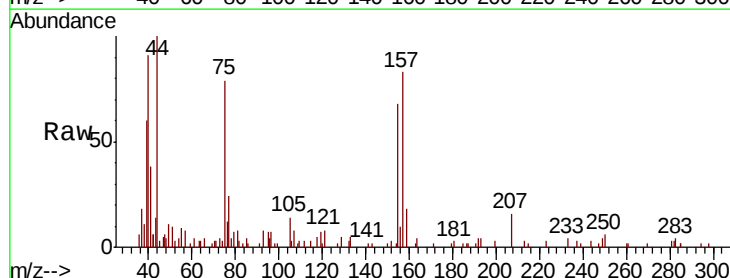
Tgt Ion: 75 Resp: 6209

Ion Ratio Lower Upper

75 100

155 86.4 58.1 174.3

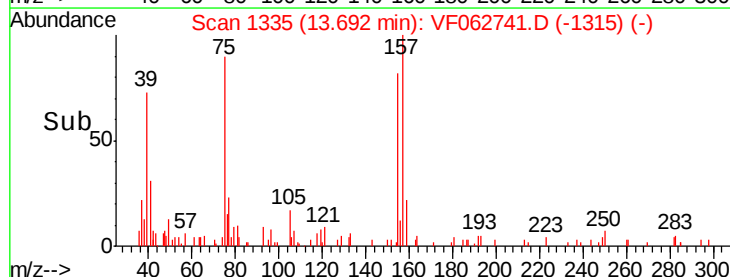
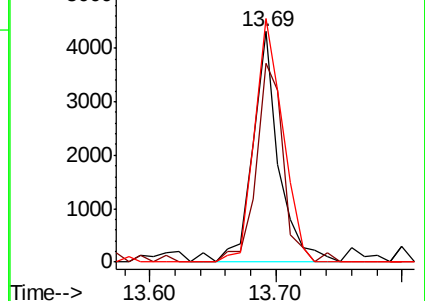
157 105.6 77.8 233.4

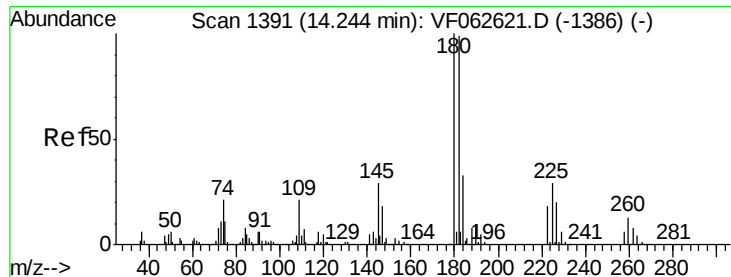


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

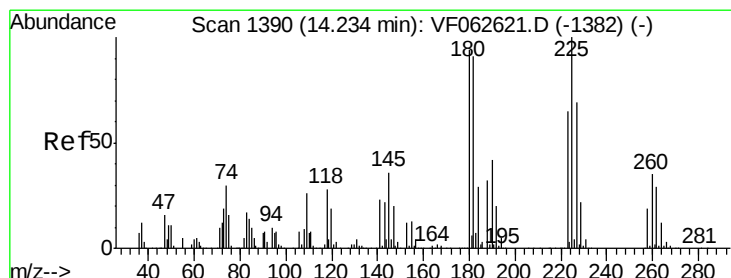
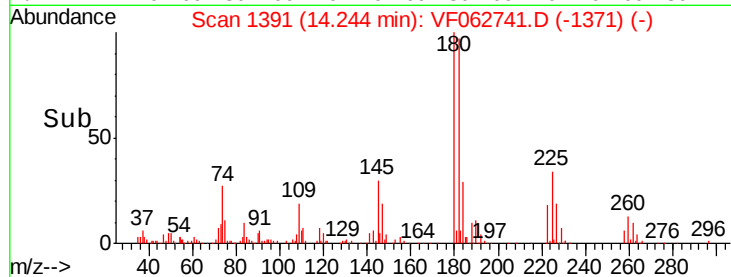
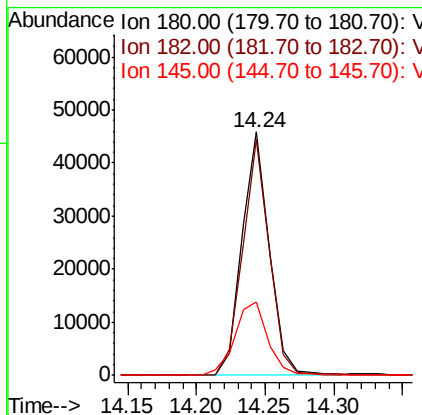
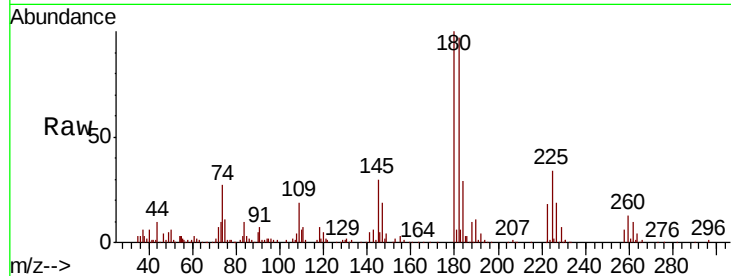




#93
 1,2,4-Trichlorobenzene
 Concen: 19.654 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

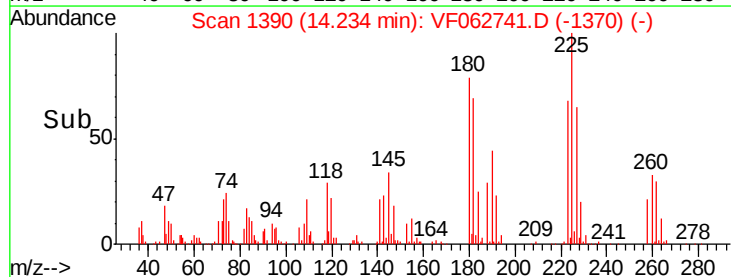
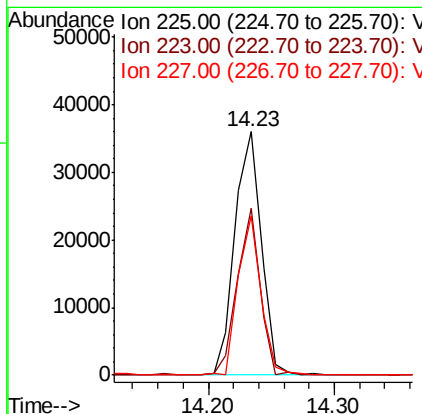
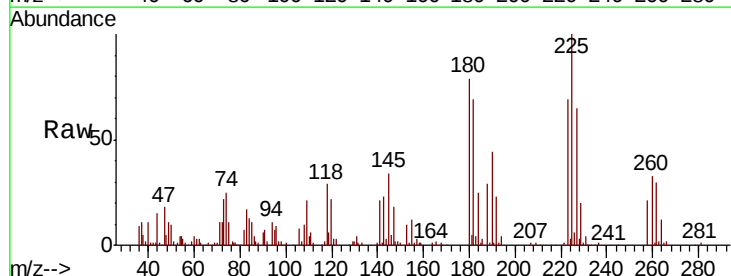
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0524SBS01

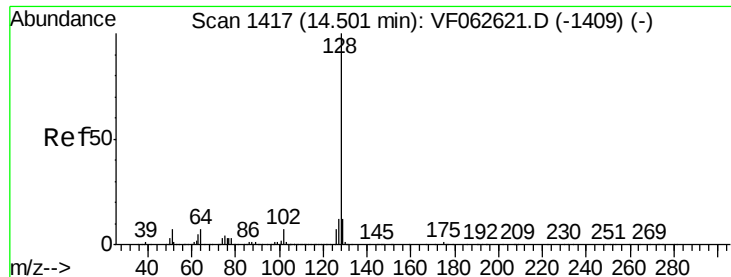
Tot Ion:180 Resp: 63571
 Ion Ratio Lower Upper
 180 100
 182 97.0 49.7 149.1
 145 30.0 14.6 44.0



#94
 Hexachlorobutadiene
 Concen: 23.006 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062741.D
 Acq: 24 May 2019 12:24

Tgt Ion:225 Resp: 51930
 Ion Ratio Lower Upper
 225 100
 223 68.5 32.5 97.4
 227 65.3 34.5 103.5





#95

Naphthalene

Concen: 13.068 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0524SBS01

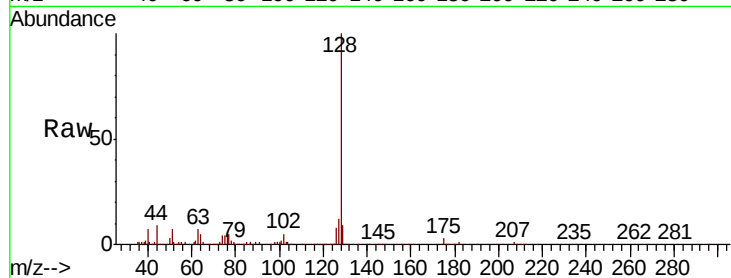
Tot Ion:128 Resp: 76791

Ion Ratio Lower Upper

128 100

127 12.2 9.7 14.5

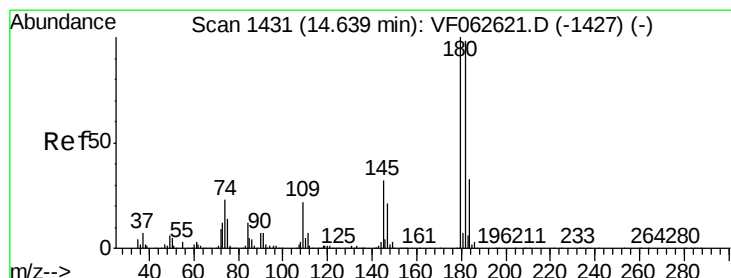
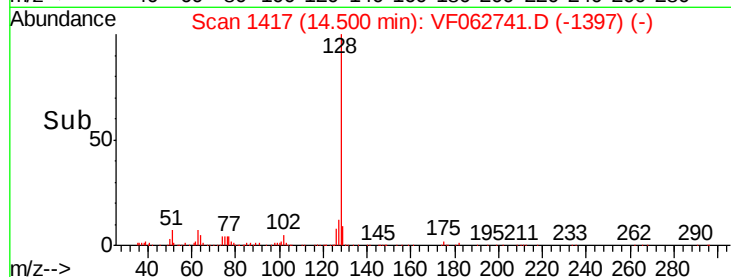
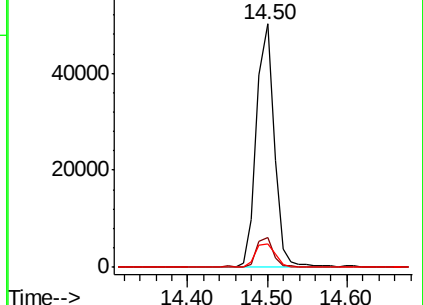
129 9.4 9.3 13.9



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: 17.846 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

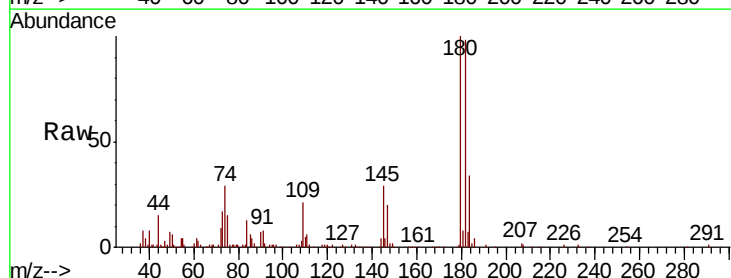
Tgt Ion:180 Resp: 54675

Ion Ratio Lower Upper

180 100

182 98.1 48.9 146.7

145 28.8 16.1 48.2



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

