

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF052019\
 Data File : VF062652.D
 Acq On : 20 May 2019 10:28
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: May 20 14:38:49 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	5.06	168	955427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1587323	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	1173886	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	581819	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	309855	45.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.78%	
35) Dibromofluoromethane	4.31	113	557314	45.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.76%	
50) Toluene-d8	7.71	98	1410444	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
62) 4-Bromofluorobenzene	11.49	95	558917	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	554471	42.645	ug/l	95
3) Chloromethane	1.15	50	470713	39.318	ug/l	95
4) Vinyl Chloride	1.19	62	453306	41.135	ug/l	100
5) Bromomethane	1.41	94	293056	48.610	ug/l	95
6) Chloroethane	1.46	64	180564	44.613	ug/l #	88
7) Trichlorofluoromethane	1.55	101	220891	14.928	ug/l	90
8) Diethyl Ether	1.72	74	124509	42.475	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.92	101	388164	41.198	ug/l	94
10) Methyl Iodide	2.00	142	713236	38.536	ug/l	99
11) Tert butyl alcohol	2.71	59	109432	245.506	ug/l #	93
12) 1,1-Dichloroethene	1.88	96	356215	41.503	ug/l	96
13) Acrolein	2.10	56	102417	220.114	ug/l	95
14) Allyl chloride	2.20	41	235485	30.315	ug/l	98
15) Acrylonitrile	3.09	53	485538	386.158	ug/l #	93
16) Acetone	2.35	43	521549	297.762	ug/l #	86
17) Carbon Disulfide	1.91	76	786104	30.901	ug/l	98
18) Methyl Acetate	2.47	43	139353	50.628	ug/l	95
19) Methyl tert-butyl Ether	2.54	73	731294	47.662	ug/l	99
20) Methylene Chloride	2.36	84	265094	30.194	ug/l	97
21) trans-1,2-Dichloroethene	2.43	96	215607	25.701	ug/l	92
22) Diisopropyl ether	2.94	45	896342	46.785	ug/l	97
23) Vinyl Acetate	3.34	43	3341465	258.547	ug/l	98
24) 1,1-Dichloroethane	3.01	63	592707	42.171	ug/l	98
25) 2-Butanone	4.53	43	1051142	280.889	ug/l	100
26) 2,2-Dichloropropane	3.78	77	339580	42.227	ug/l	94
27) cis-1,2-Dichloroethene	3.65	96	663796	48.104	ug/l	94
28) Bromochloromethane	3.90	49	334401	42.423	ug/l	99
29) Tetrahydrofuran	4.27	42	395798	261.367	ug/l	99
30) Chloroform	4.05	83	943373	48.344	ug/l	99
31) Cyclohexane	3.87	56	433783	22.986	ug/l	98
32) 1,1,1-Trichloroethane	4.29	97	480334	37.064	ug/l	97
36) 1,1-Dichloropropene	4.47	75	789878	48.563	ug/l	94
37) Ethyl Acetate	4.30	43	338216	50.928	ug/l #	74
38) Carbon Tetrachloride	4.18	117	497740	40.689	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	998332	51.011	ug/l	97
40) Benzene	4.82	78	2215041	49.989	ug/l	98
41) Methacrylonitrile	4.93	41	183883	52.814	ug/l	97
42) 1,2-Dichloroethane	5.13	62	447116	50.600	ug/l	93
43) Isopropyl Acetate	7.12	43	436995	50.791	ug/l #	95
44) Trichloroethene	5.68	130	622938	50.020	ug/l	94
45) 1,2-Dichloropropane	6.41	63	562935	50.327	ug/l	98
46) Dibromomethane	6.26	93	330387	51.108	ug/l	95
47) Bromodichloromethane	6.56	83	702076	52.315	ug/l	97
48) Methyl methacrylate	6.88	41	243169	54.073	ug/l	99
49) 1,4-Dioxane	6.87	88	62668	1088.026	ug/l	92
51) 4-Methyl-2-Pentanone	8.40	43	1427829	242.786	ug/l	100
52) Toluene	7.78	92	1214505	52.262	ug/l	98
53) t-1,3-Dichloropropene	8.43	75	607549	55.335	ug/l	97
54) cis-1,3-Dichloropropene	7.46	75	820026	53.355	ug/l	99
55) 1,1,2-Trichloroethane	8.64	97	361901	52.597	ug/l	96
56) Ethyl methacrylate	8.75	69	419054	51.120	ug/l	98
57) 1,3-Dichloropropane	8.99	76	612827	52.290	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.44	63	682332	255.722	ug/l	97
59) 2-Hexanone	9.62	43	1144003	302.748	ug/l	95
60) Dibromochloromethane	8.85	129	507132	56.551	ug/l	97
61) 1,2-Dibromoethane	9.13	107	393387	53.828	ug/l	98
64) Tetrachloroethene	8.30	164	511011	54.948	ug/l	96
65) Chlorobenzene	9.94	112	1223788	53.078	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	503323	54.379	ug/l	98
67) Ethyl Benzene	10.03	91	2036179	50.836	ug/l	99
68) m/p-Xylenes	10.26	106	1532828	101.822	ug/l	100
69) o-Xylene	10.81	106	874577	56.404	ug/l	96
70) Styrene	10.89	104	1285960	54.564	ug/l	99
71) Bromoform	10.87	173	295374	63.717	ug/l #	96
73) Isopropylbenzene	11.21	105	2208226	52.955	ug/l	100
74) N-amyl acetate	11.45	43	625230	60.008	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.77	83	466042	54.687	ug/l	98
76) 1,2,3-Trichloropropane	11.87	75	304579	54.394	ug/l	95
77) Bromobenzene	11.58	156	579419	55.900	ug/l	89
78) n-propylbenzene	11.67	91	2495842	50.574	ug/l	100
79) 2-Chlorotoluene	11.80	91	1503798	54.070	ug/l	94
80) 1,3,5-Trimethylbenzene	11.90	105	1754031	52.458	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	182918	73.491	ug/l	96
82) 4-Chlorotoluene	11.97	91	1427112	52.034	ug/l	98
83) tert-Butylbenzene	12.19	119	1815521	53.518	ug/l	96
84) 1,2,4-Trimethylbenzene	12.26	105	1626392	50.256	ug/l	98
85) sec-Butylbenzene	12.37	105	2277968	50.037	ug/l	96
86) p-Isopropyltoluene	12.52	119	1973680	51.442	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	964291	51.421	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	889776	50.560	ug/l	97
89) n-Butylbenzene	12.89	91	1871800	49.482	ug/l	99
90) Hexachloroethane	12.97	117	510228	55.437	ug/l	74
91) 1,2-Dichlorobenzene	12.99	146	863438	51.652	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.68	75	62486	61.463	ug/l	70

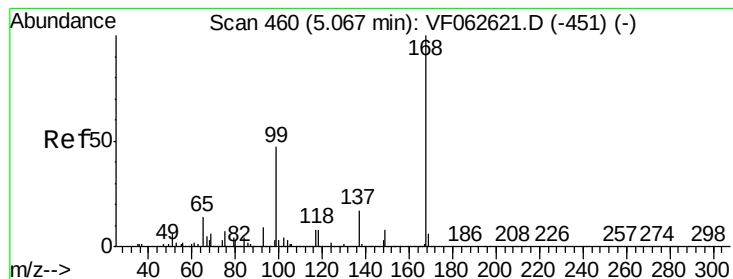
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF052019\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	701634	58.638	ug/l	96
94) Hexachlorobutadiene	14.23	225	499706	59.843	ug/l	96
95) Naphthalene	14.49	128	1209882	55.658	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	672160	59.306	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

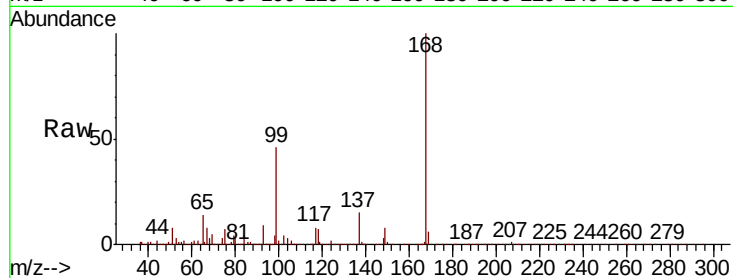
VSTDCCC050

Tgt Ion:168 Resp: 955427

Ion Ratio Lower Upper

168 100

99 45.7 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

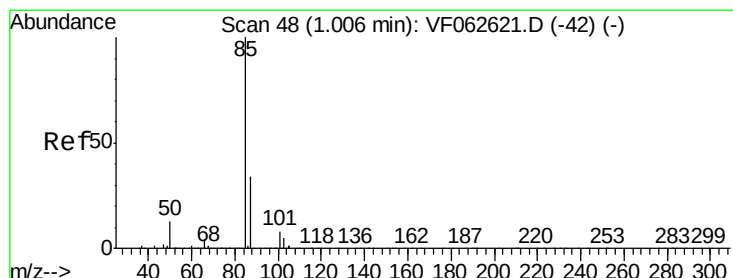
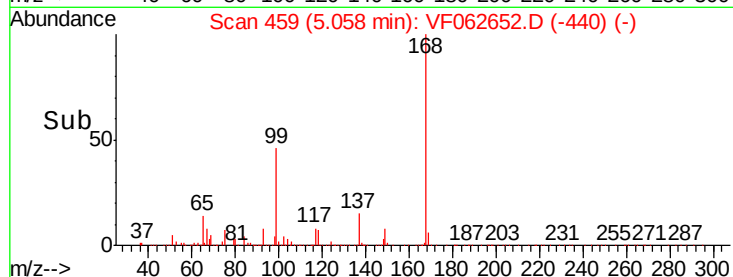
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 42.645 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062652.D

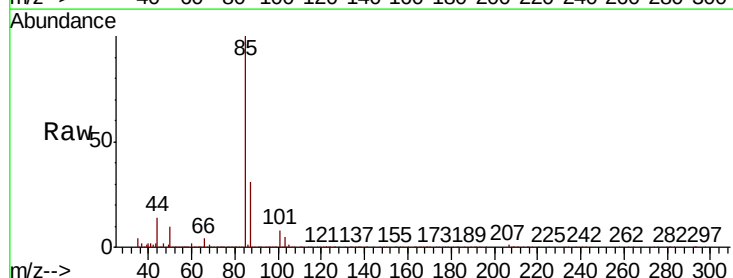
Acq: 20 May 2019 10:28

Tgt Ion: 85 Resp: 554471

Ion Ratio Lower Upper

85 100

87 30.5 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

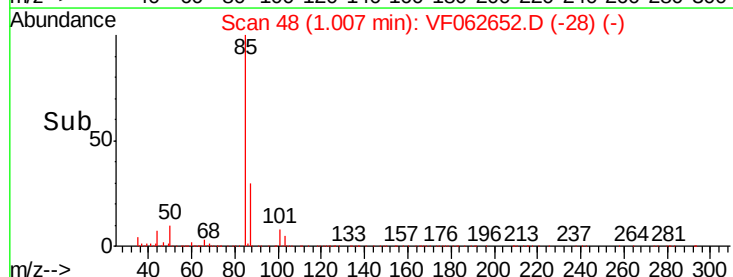
150000

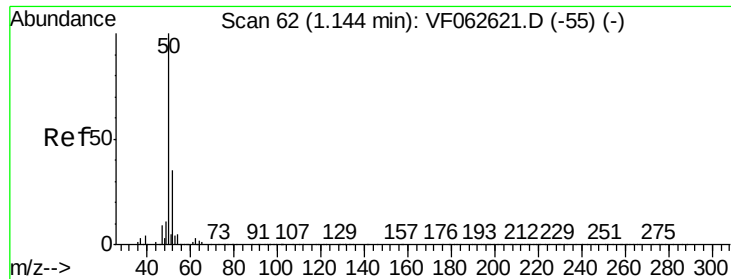
100000

50000

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Time-->

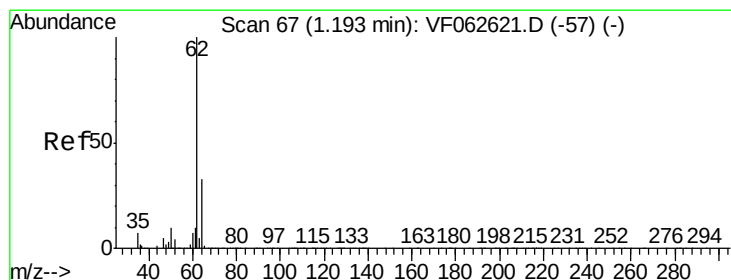
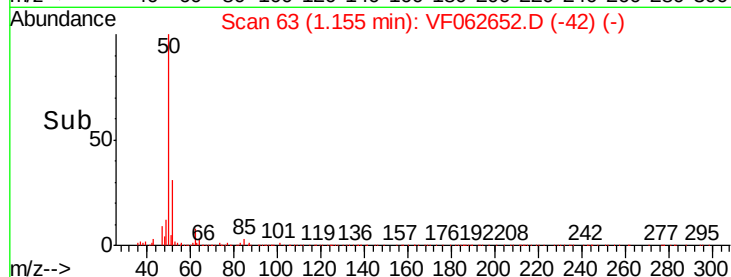
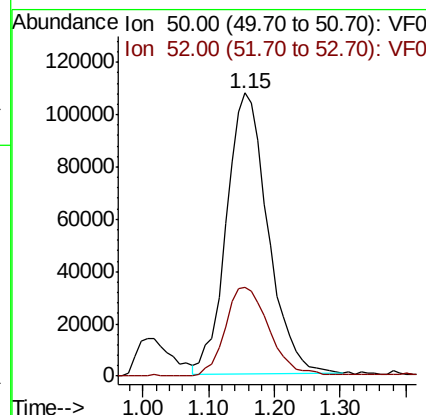
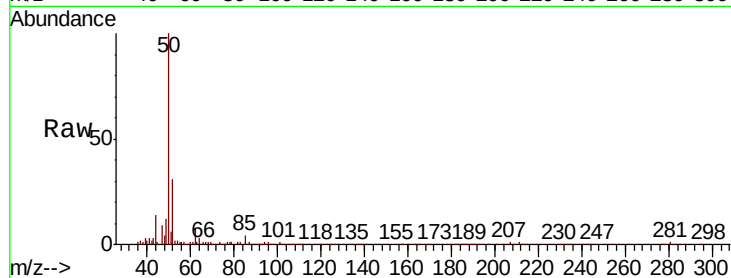




#3
Chloromethane
Concen: 39.318 ug/l
RT: 1.15 min Scan# 63
Delta R.T. 0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

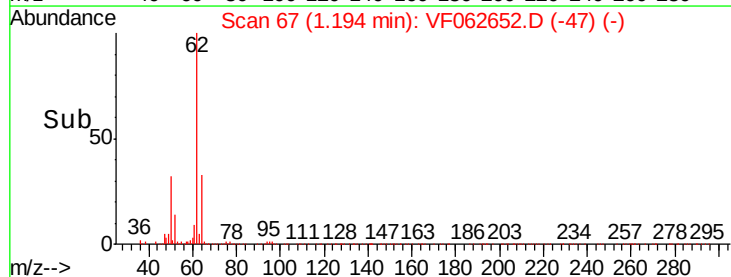
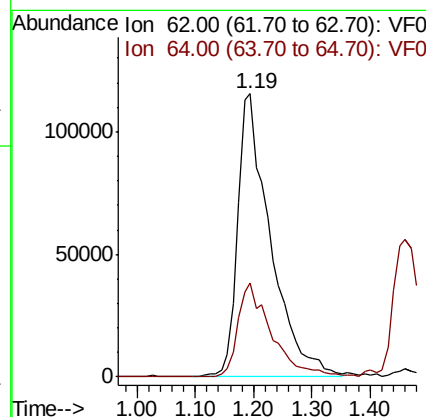
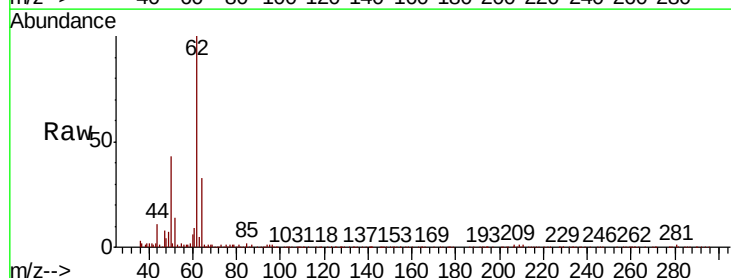
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

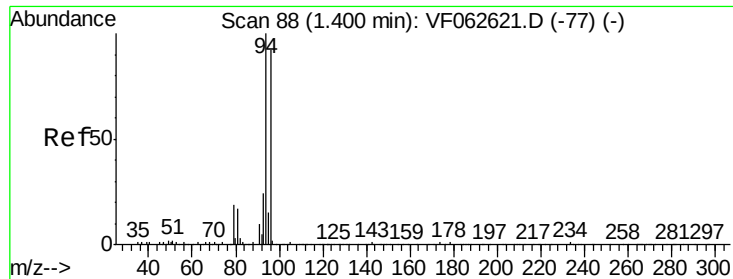
Tgt Ion: 50 Resp: 470713
Ion Ratio Lower Upper
50 100
52 31.5 27.5 41.3



#4
Vinyl Chloride
Concen: 41.135 ug/l
RT: 1.19 min Scan# 67
Delta R.T. 0.00 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion: 62 Resp: 453306
Ion Ratio Lower Upper
62 100
64 33.3 26.7 40.1





#5

Bromomethane

Concen: 48.610 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

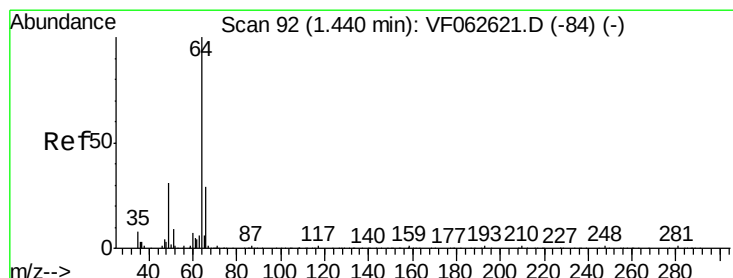
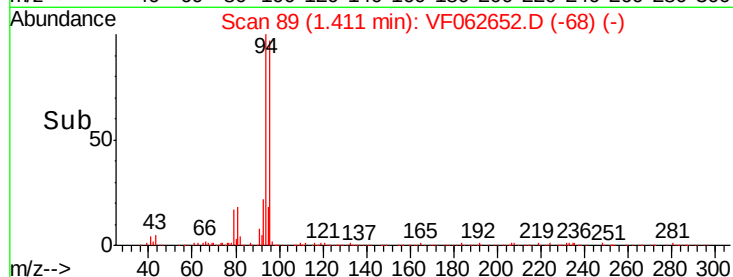
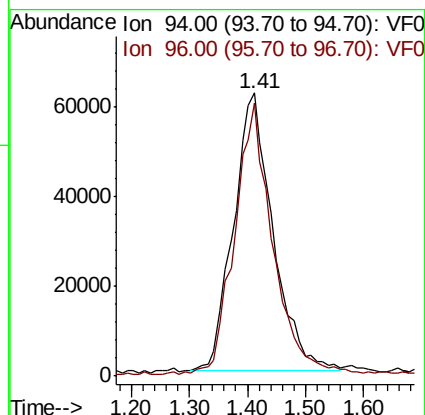
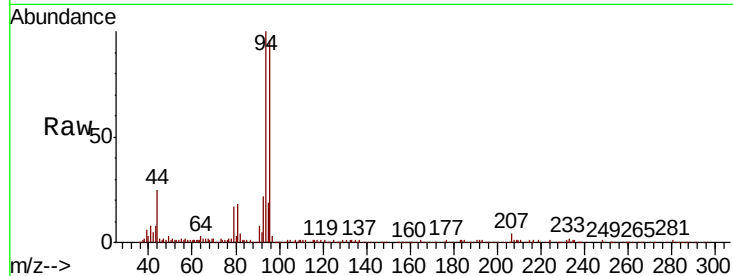
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 293056

Ion Ratio Lower Upper

94 100

96 96.3 73.2 109.8



#6

Chloroethane

Concen: 44.613 ug/l

RT: 1.46 min Scan# 94

Delta R.T. 0.02 min

Lab File: VF062652.D

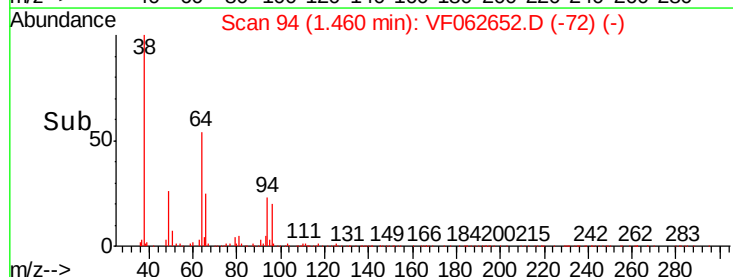
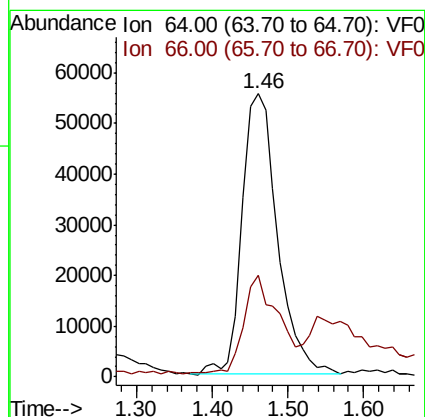
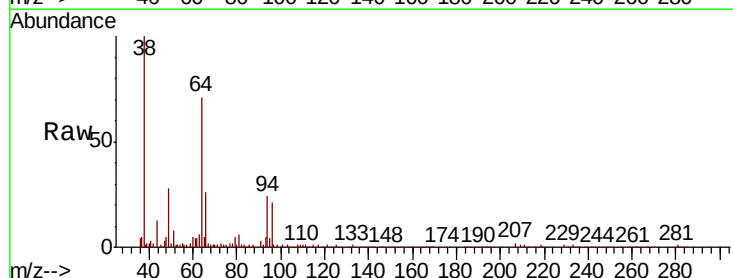
Acq: 20 May 2019 10:28

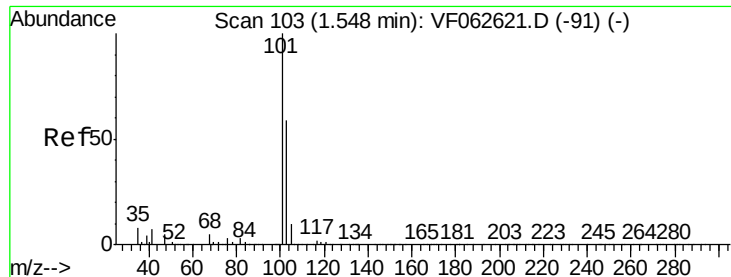
Tgt Ion: 64 Resp: 180564

Ion Ratio Lower Upper

64 100

66 35.8 23.4 35.2#



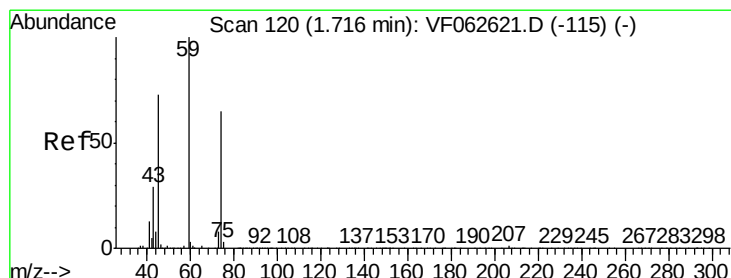
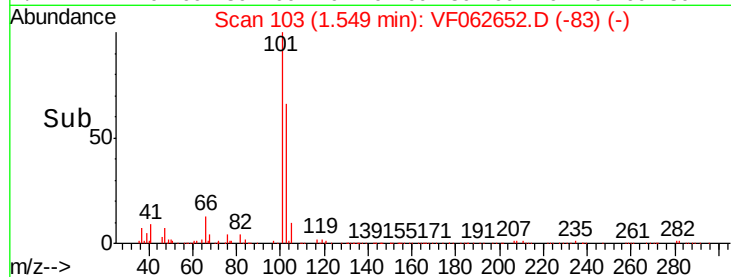
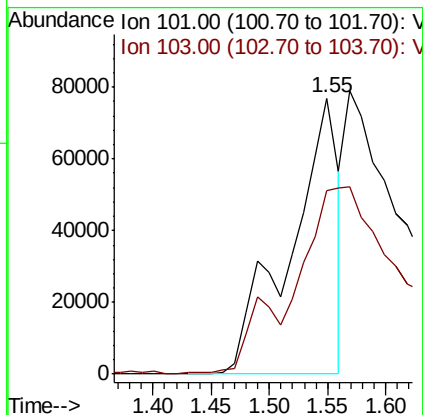
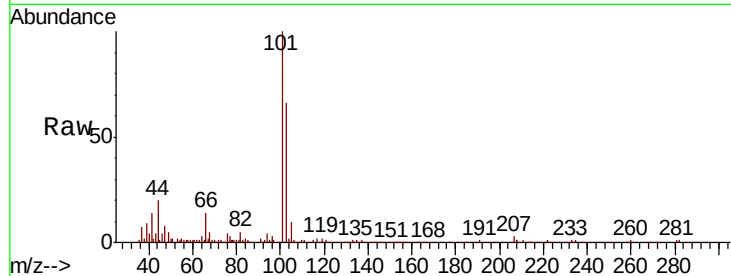


#7

Trichlorofluoromethane
Concen: 14.928 ug/l
RT: 1.55 min Scan# 103
Delta R.T. 0.00 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

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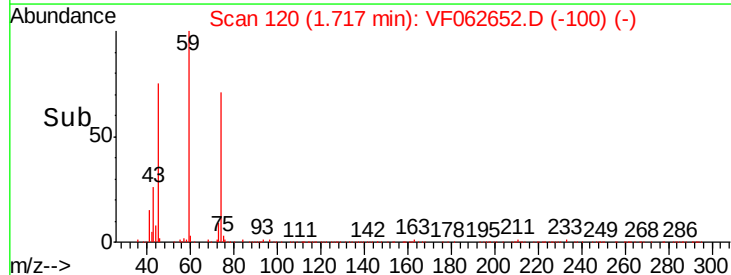
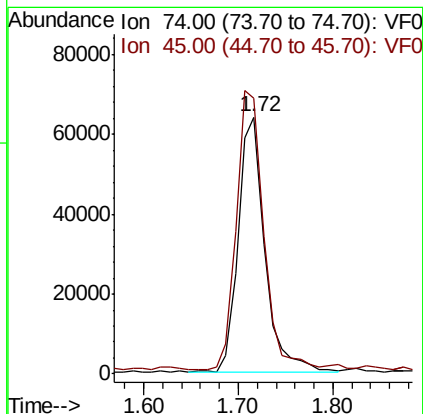
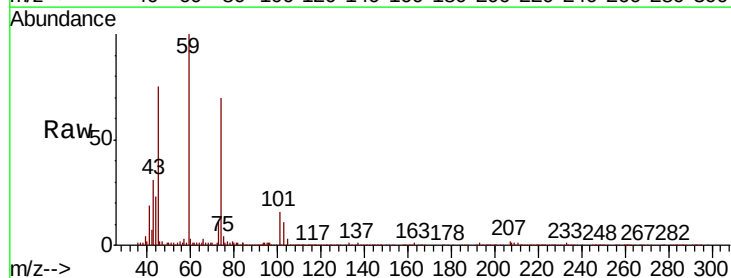
Tgt Ion:101 Resp: 220891
Ion Ratio Lower Upper
101 100
103 66.4 47.3 70.9

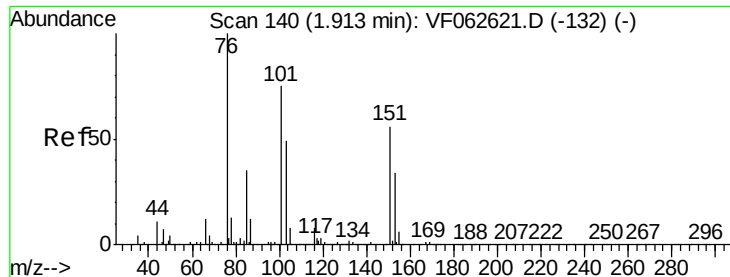


#8

Diethyl Ether
Concen: 42.475 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion: 74 Resp: 124509
Ion Ratio Lower Upper
74 100
45 107.5 57.0 170.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 41.198 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

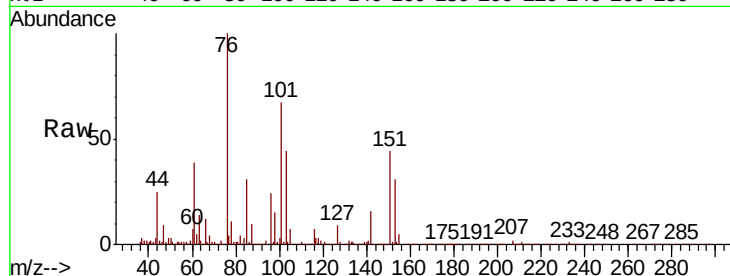
Tgt Ion:101 Resp: 388164

Ion Ratio Lower Upper

101 100

85 46.7 37.1 55.7

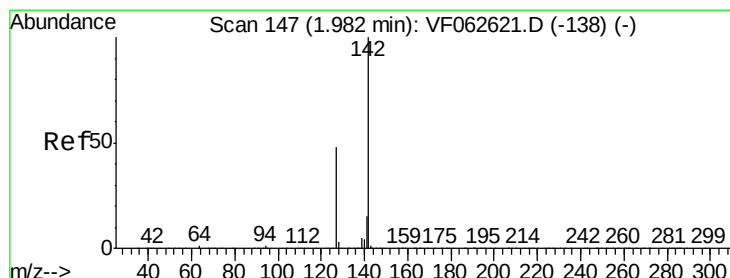
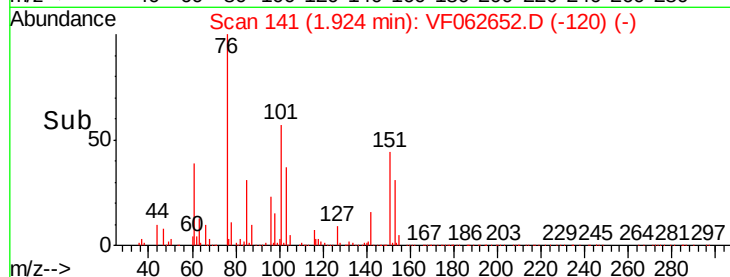
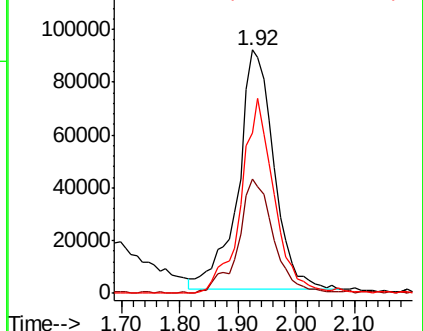
151 66.0 58.8 88.2



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: 38.536 ug/l

RT: 2.00 min Scan# 149

Delta R.T. 0.02 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

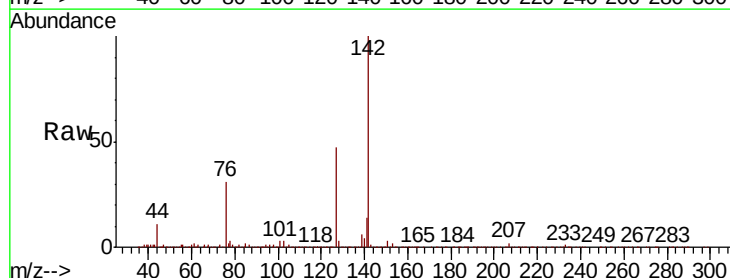
Tgt Ion:142 Resp: 713236

Ion Ratio Lower Upper

142 100

127 46.6 38.1 57.1

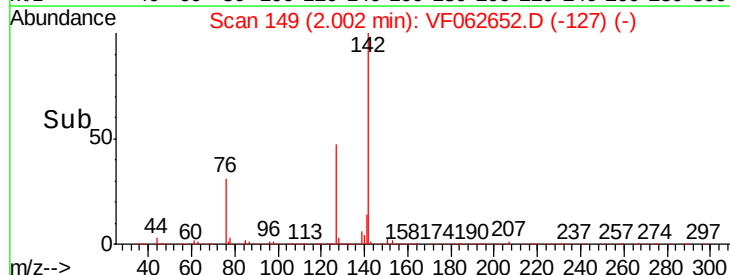
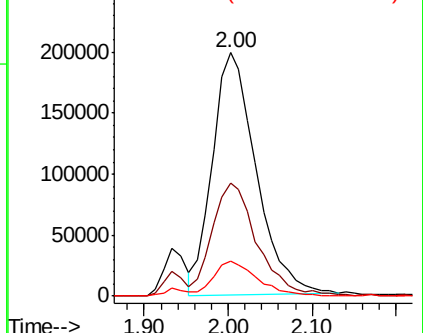
141 14.1 11.7 17.5

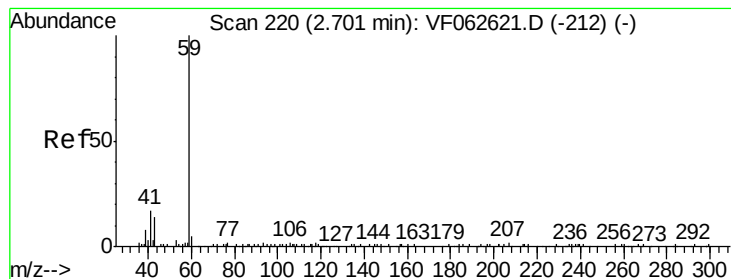


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



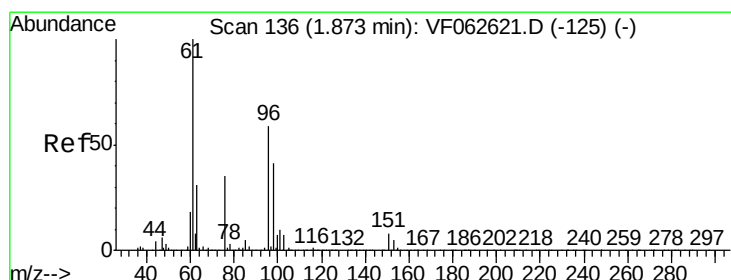
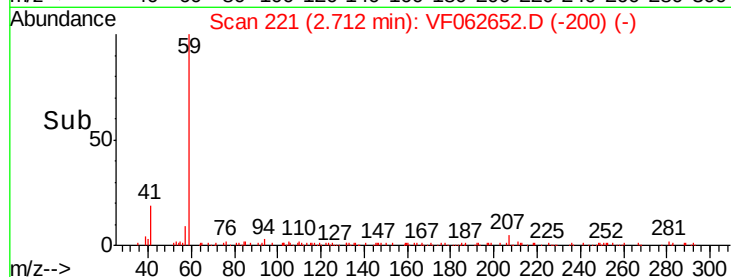
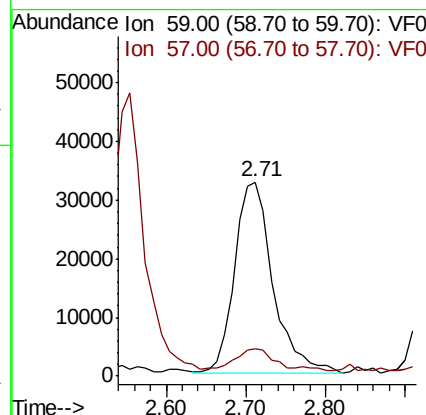
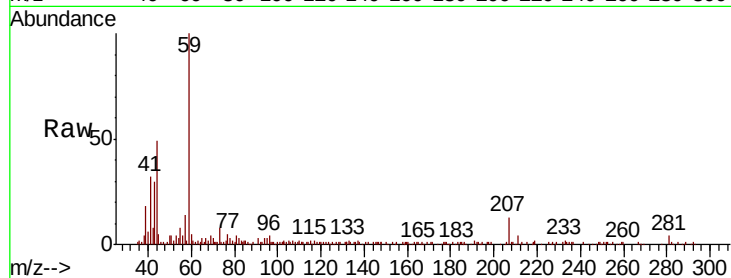


#11

Tert butyl alcohol
Concen: 245.506 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

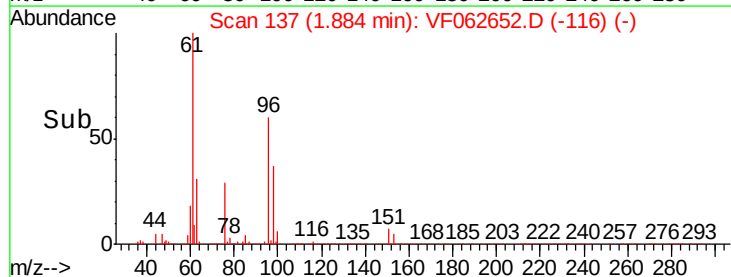
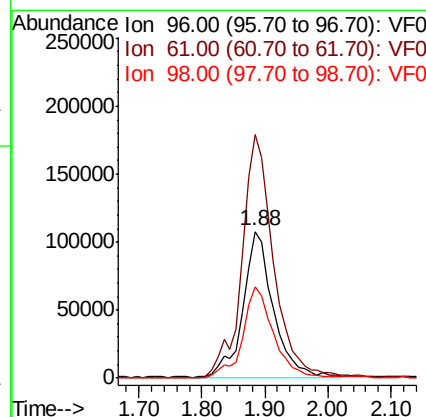
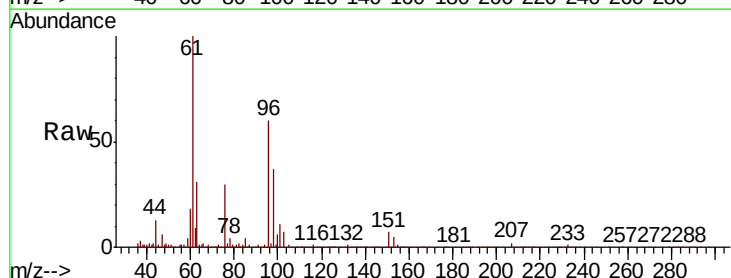
Tgt Ion: 59 Resp: 109432
Ion Ratio Lower Upper
59 100
57 14.1 9.3 13.9#

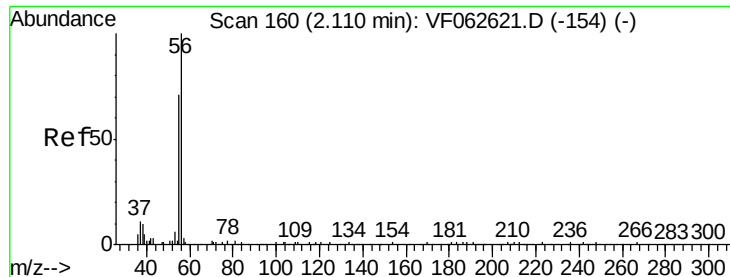


#12

1,1-Dichloroethene
Concen: 41.503 ug/l
RT: 1.88 min Scan# 137
Delta R.T. 0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion: 96 Resp: 356215
Ion Ratio Lower Upper
96 100
61 165.8 134.3 201.5
98 62.1 55.0 82.6





#13

Acrolein

Concen: 220.114 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

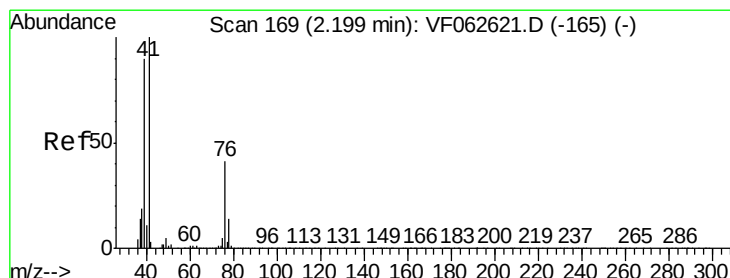
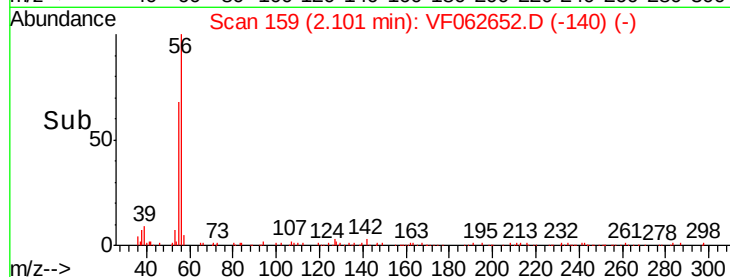
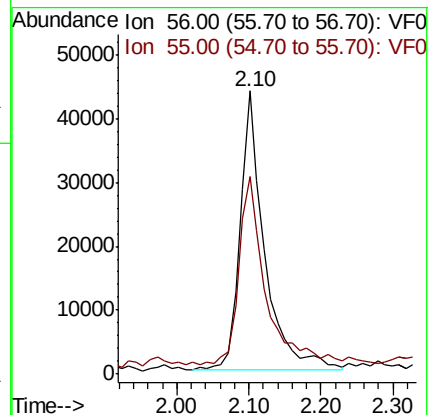
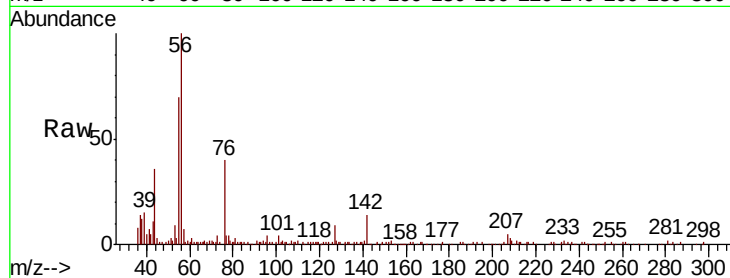
VSTDCCC050

Tgt Ion: 56 Resp: 102417

Ion Ratio Lower Upper

56 100

55 69.7 59.4 89.0



#14

Allyl chloride

Concen: 30.315 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

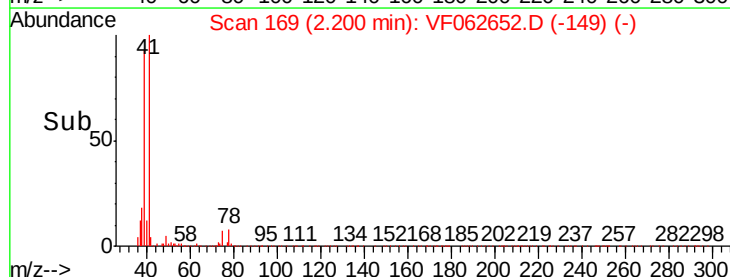
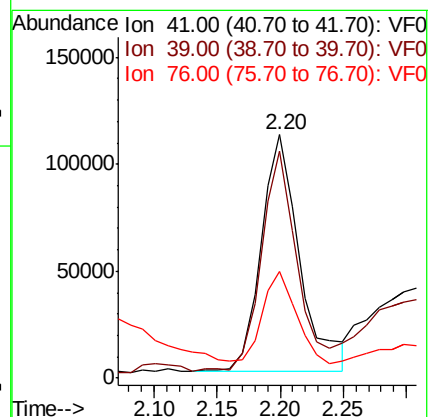
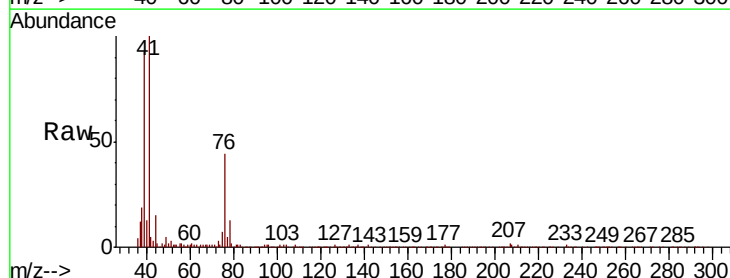
Tgt Ion: 41 Resp: 235485

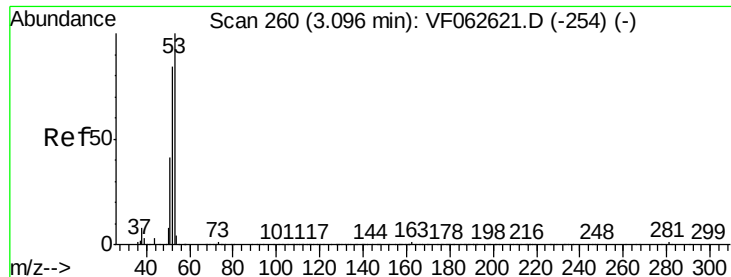
Ion Ratio Lower Upper

41 100

39 93.1 72.0 108.0

76 43.8 34.8 52.2





#15

Acrylonitrile

Concen: 386.158 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

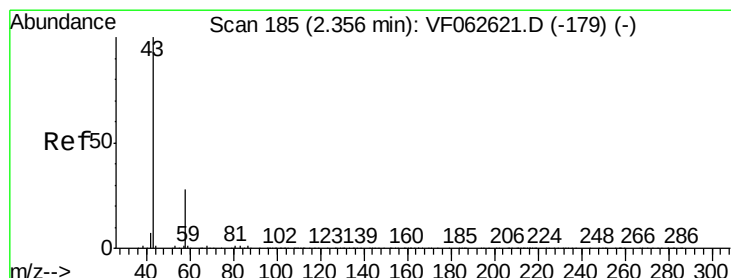
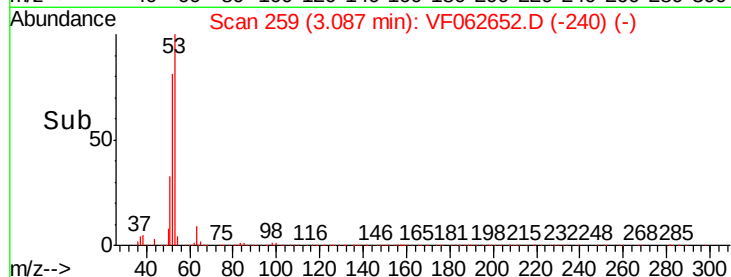
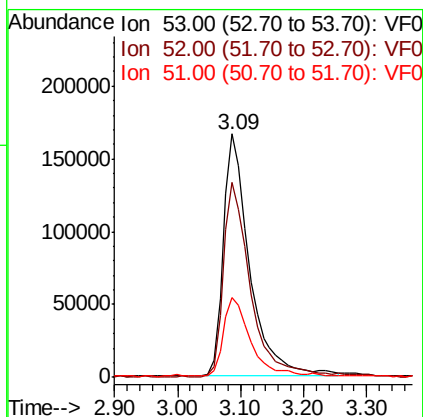
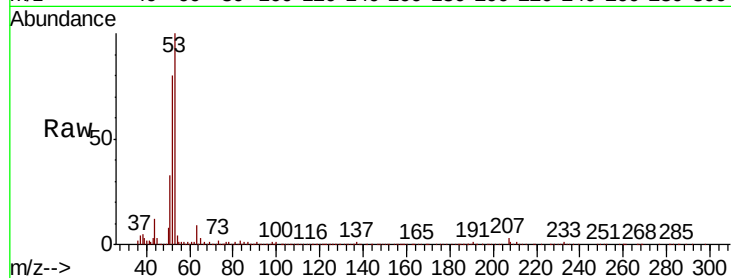
Tgt Ion: 53 Resp: 485538

Ion Ratio Lower Upper

53 100

52 80.3 67.3 100.9

51 32.9 33.0 49.6#



#16

Acetone

Concen: 297.762 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062652.D

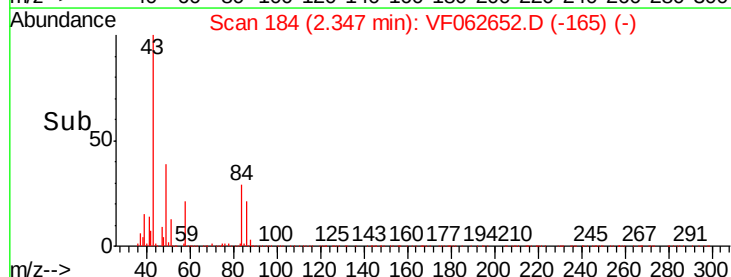
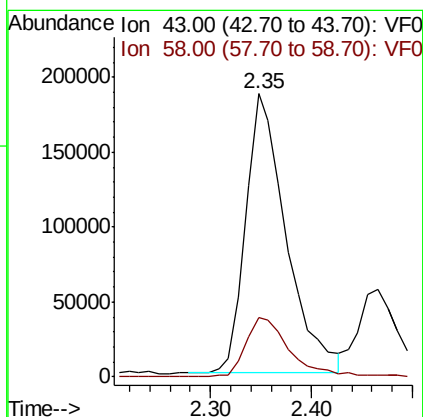
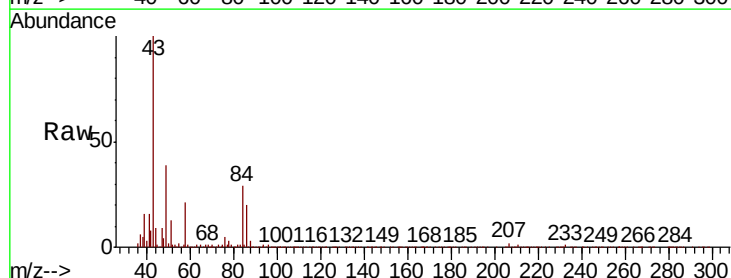
Acq: 20 May 2019 10:28

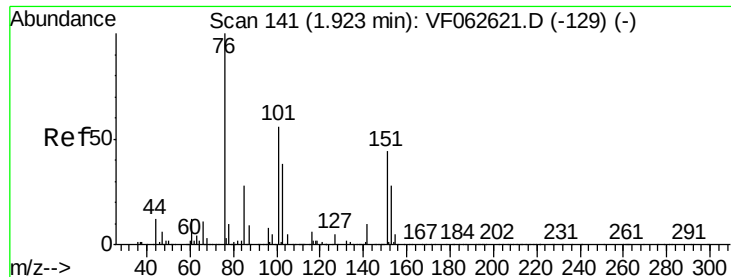
Tgt Ion: 43 Resp: 521549

Ion Ratio Lower Upper

43 100

58 20.8 22.6 33.8#





#17

Carbon Disulfide

Concen: 30.901 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

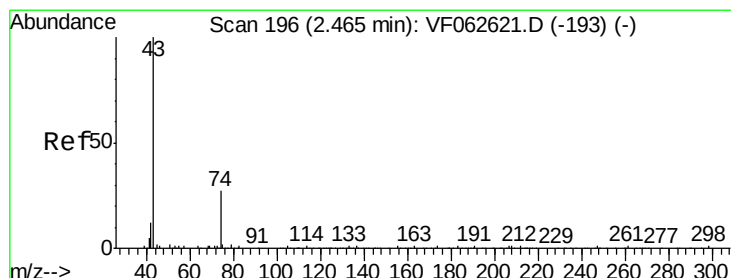
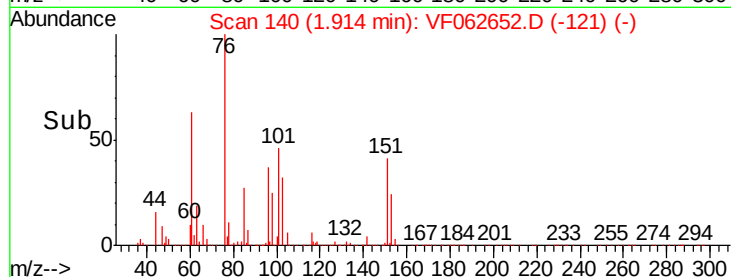
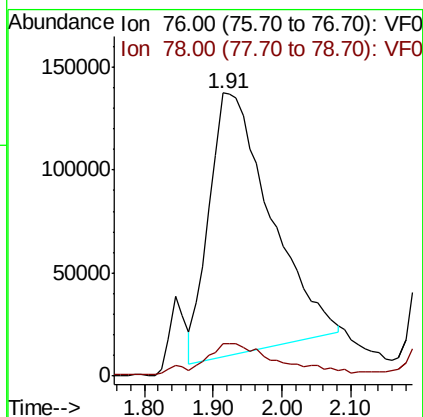
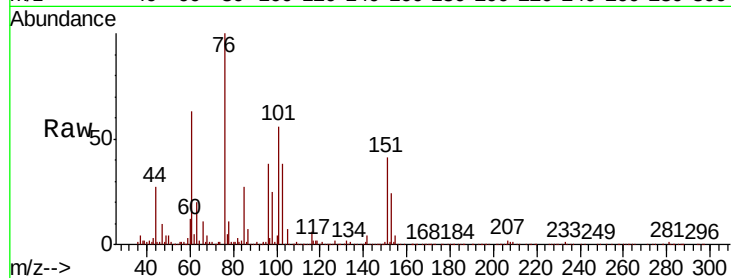
VSTDCCC050

Tgt Ion: 76 Resp: 786104

Ion Ratio Lower Upper

76 100

78 11.3 8.4 12.6



#18

Methyl Acetate

Concen: 50.628 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF062652.D

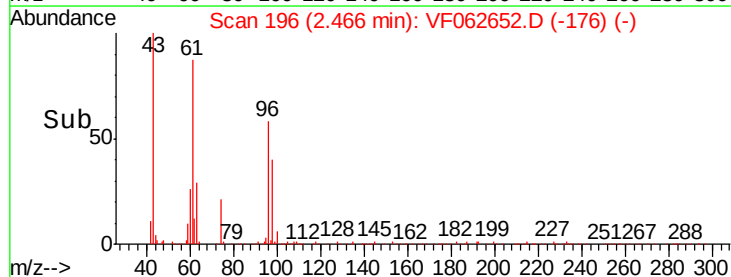
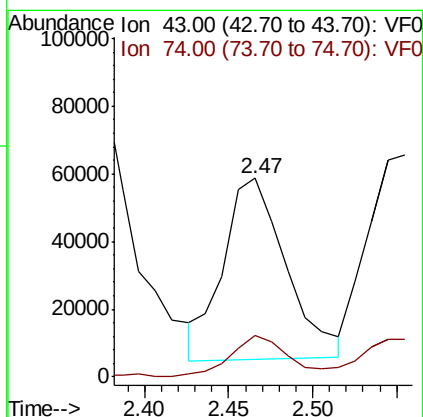
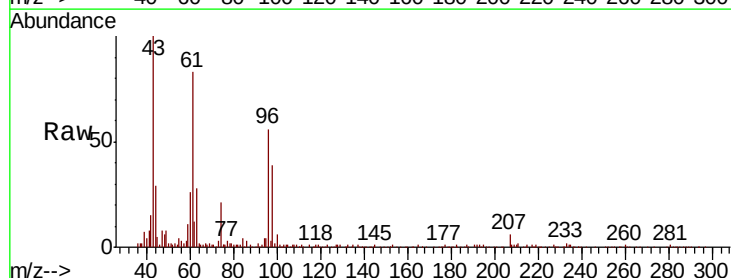
Acq: 20 May 2019 10:28

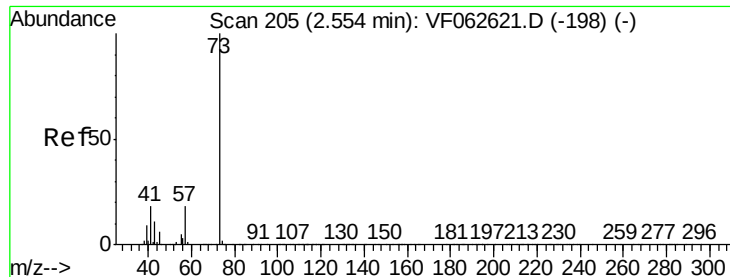
Tgt Ion: 43 Resp: 139353

Ion Ratio Lower Upper

43 100

74 21.1 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 47.662 ug/l

RT: 2.54 min Scan# 204

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

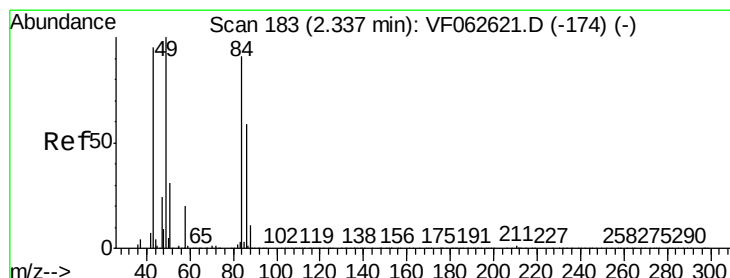
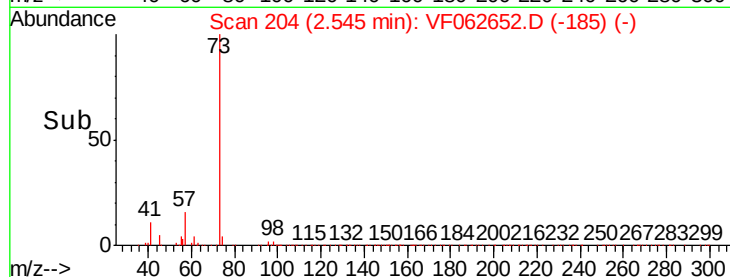
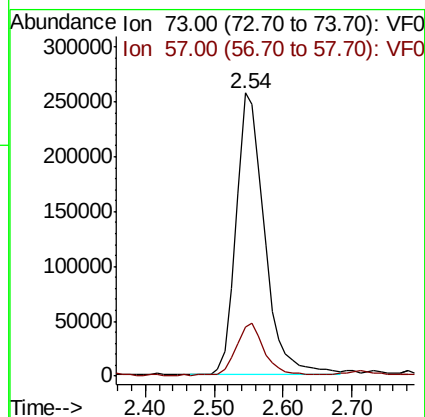
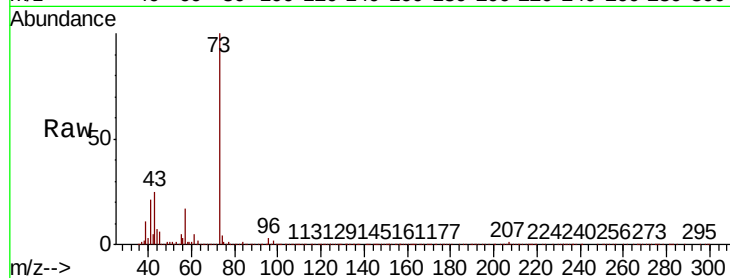
VSTDCCC050

Tgt Ion: 73 Resp: 731294

Ion Ratio Lower Upper

73 100

57 17.5 14.2 21.4



#20

Methylene Chloride

Concen: 30.194 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.02 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Tgt Ion: 84 Resp: 265094

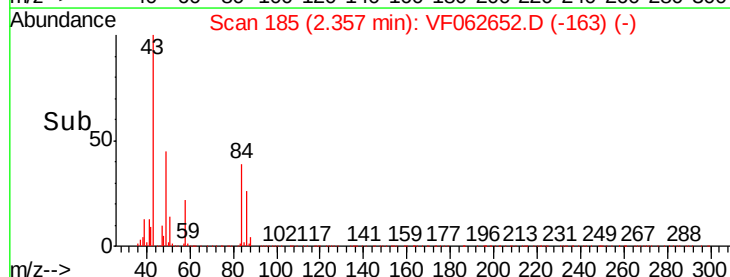
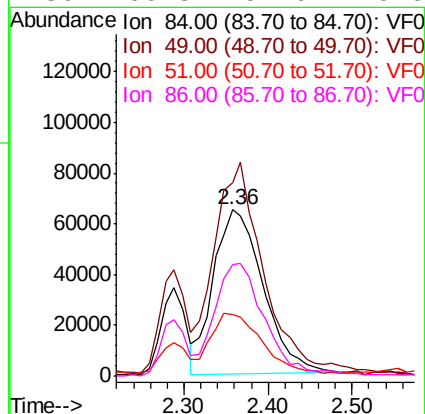
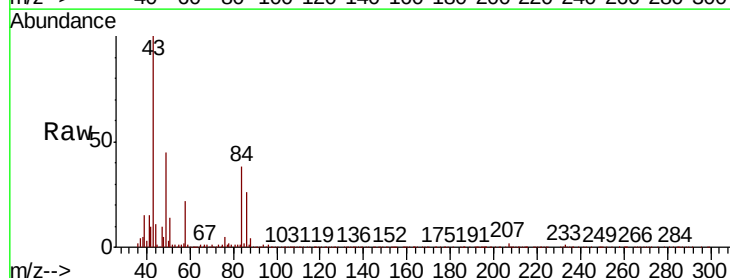
Ion Ratio Lower Upper

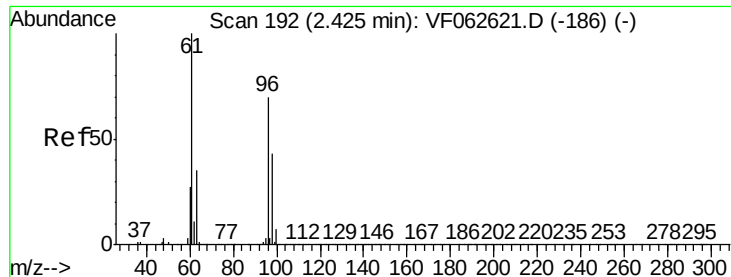
84 100

49 116.9 89.8 134.8

51 37.1 28.4 42.6

86 66.8 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 25.701 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

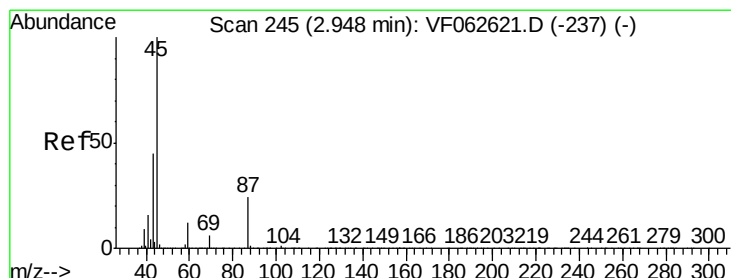
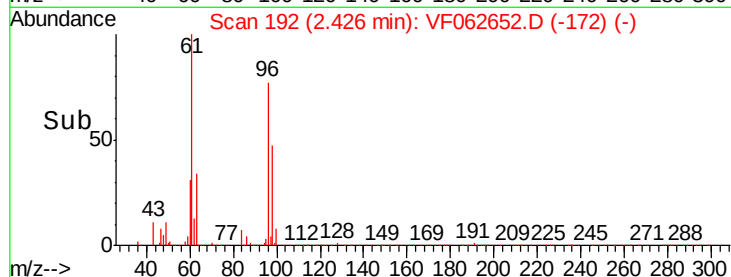
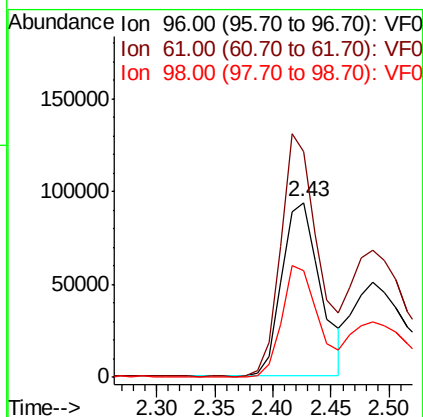
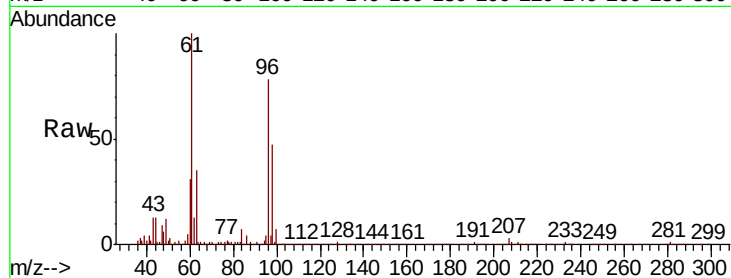
Tgt Ion: 96 Resp: 215607

Ion Ratio Lower Upper

96 100

61 129.0 114.6 171.8

98 60.8 49.5 74.3



#22

Diisopropyl ether

Concen: 46.785 ug/l

RT: 2.94 min Scan# 244

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Tgt Ion: 45 Resp: 896342

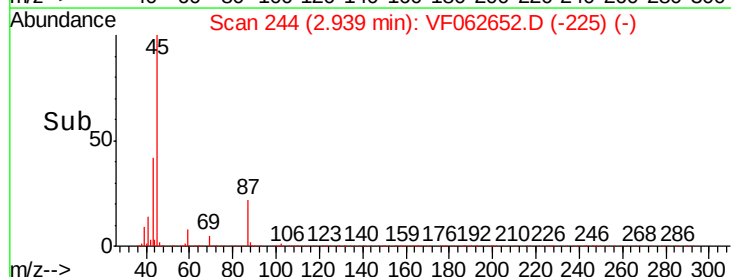
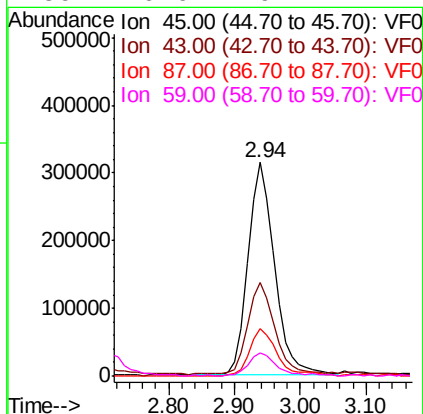
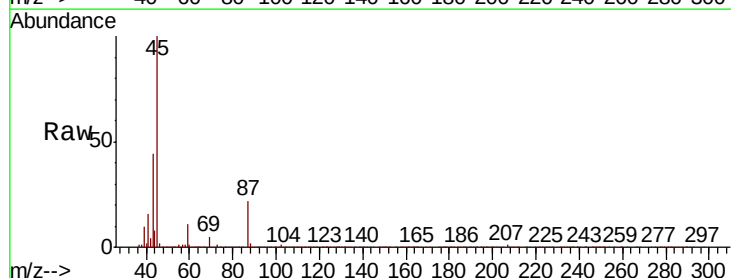
Ion Ratio Lower Upper

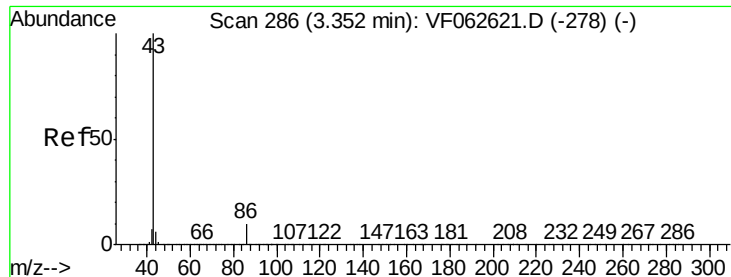
45 100

43 43.8 36.4 54.6

87 22.0 19.3 28.9

59 10.6 9.4 14.2





#23

Vinyl Acetate

Concen: 258.547 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

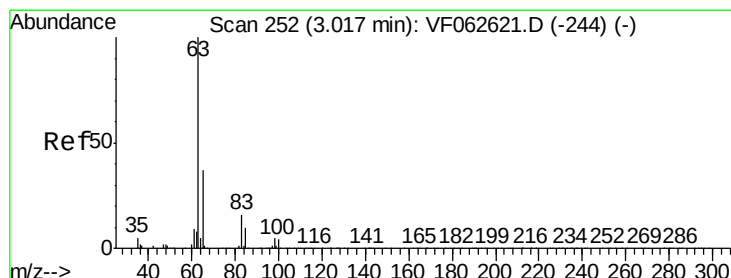
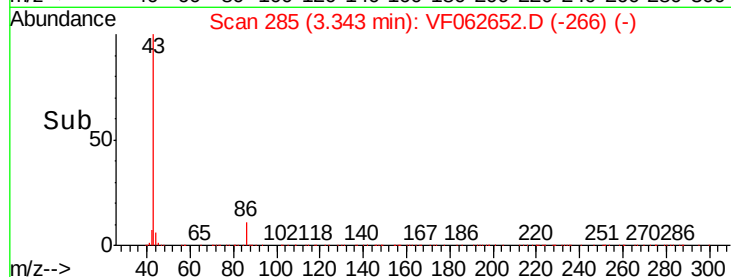
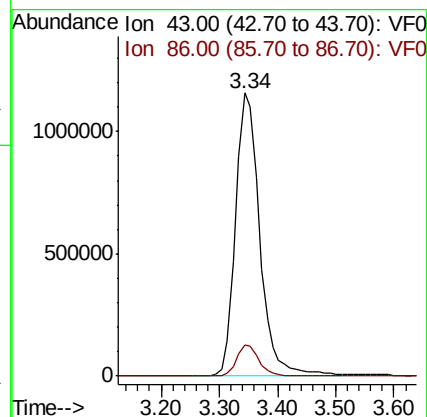
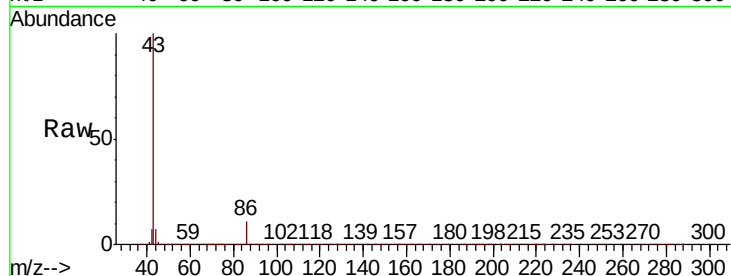
VSTDCCC050

Tgt Ion: 43 Resp: 3341465

Ion Ratio Lower Upper

43 100

86 10.9 8.2 12.2



#24

1,1-Dichloroethane

Concen: 42.171 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

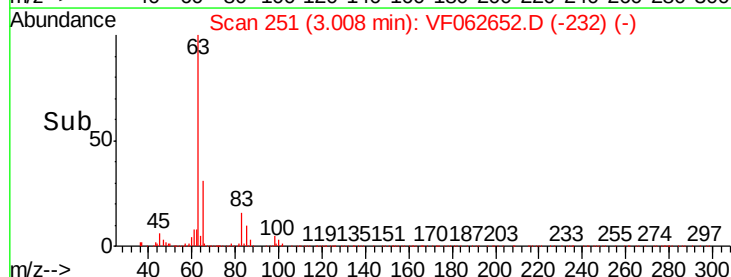
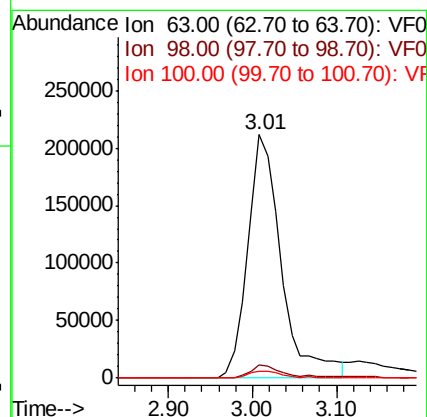
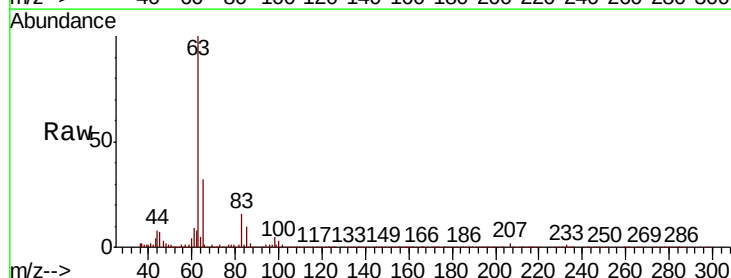
Tgt Ion: 63 Resp: 592707

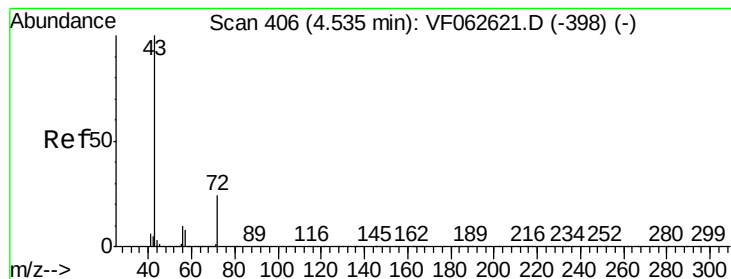
Ion Ratio Lower Upper

63 100

98 5.2 2.8 8.3

100 2.8 1.9 5.7





#25

2-Butanone

Concen: 280.889 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

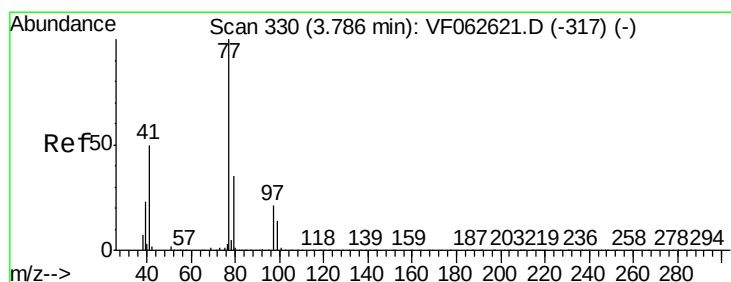
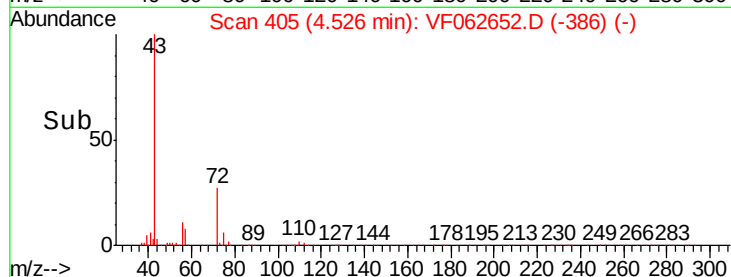
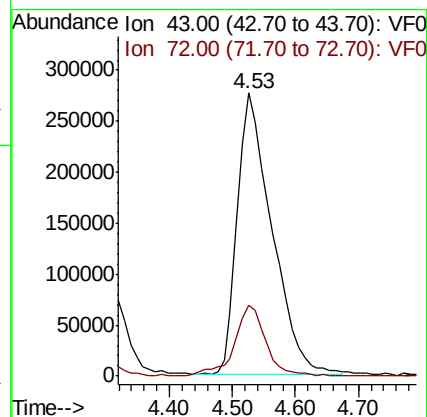
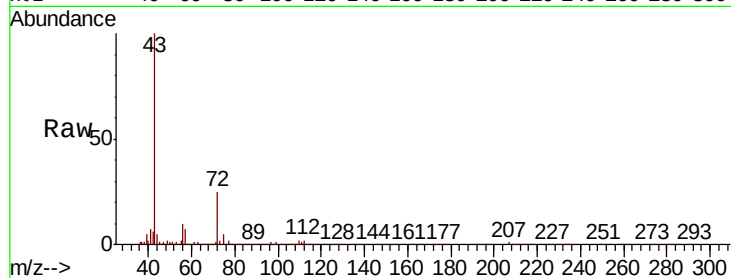
VSTDCCC050

Tgt Ion: 43 Resp: 1051142

Ion Ratio Lower Upper

43 100

72 24.9 20.1 30.1



#26

2,2-Dichloropropane

Concen: 42.227 ug/l

RT: 3.78 min Scan# 329

Delta R.T. -0.01 min

Lab File: VF062652.D

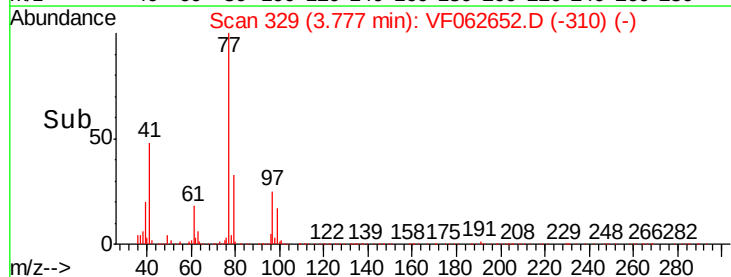
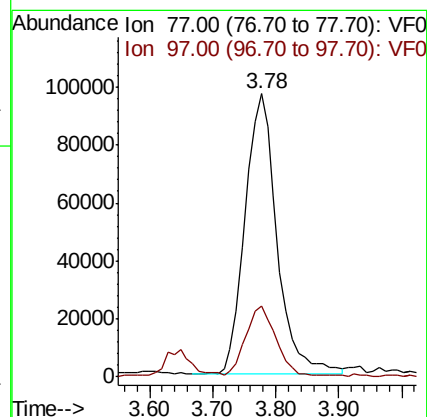
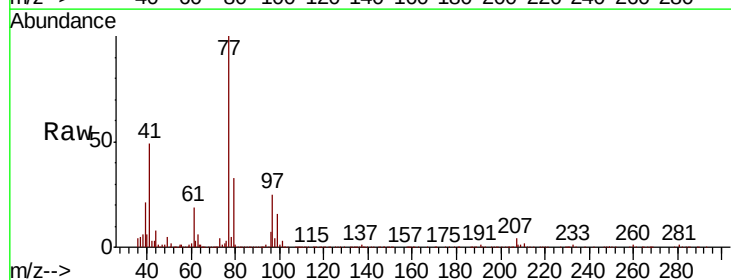
Acq: 20 May 2019 10:28

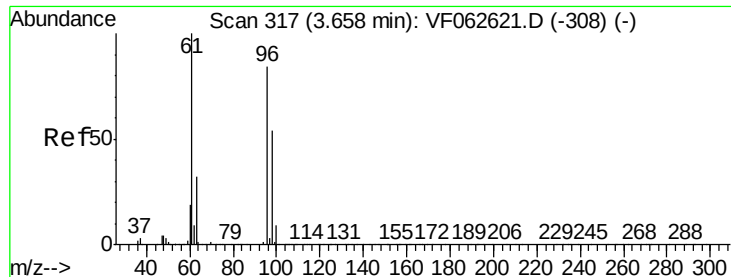
Tgt Ion: 77 Resp: 339580

Ion Ratio Lower Upper

77 100

97 25.2 14.1 42.4



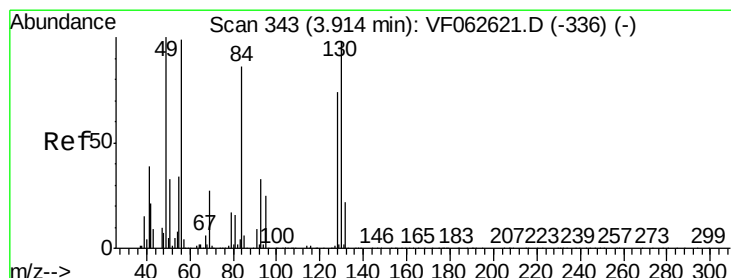
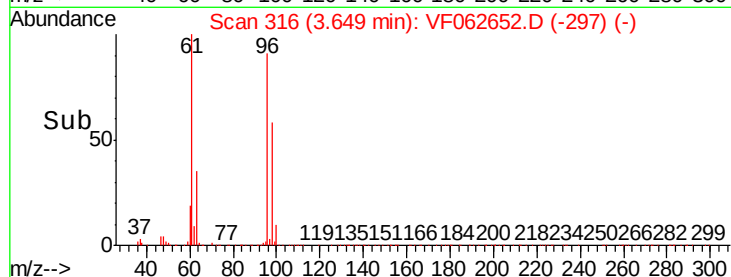
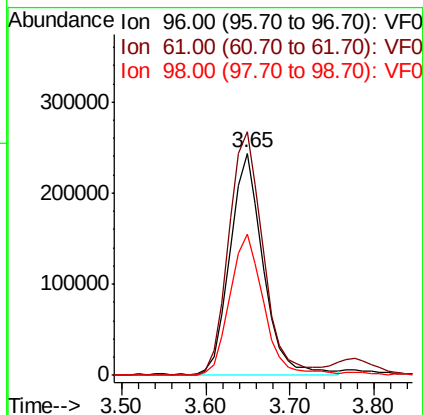
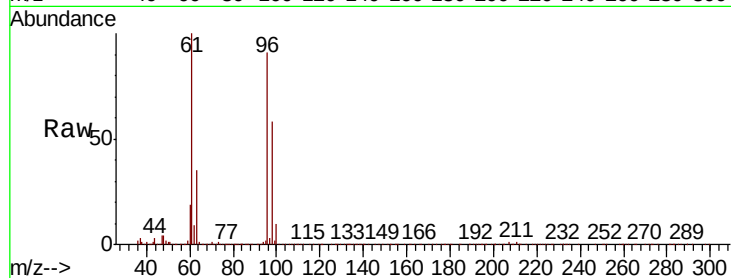


#27

cis-1,2-Dichloroethene
 Concen: 48.104 ug/l
 RT: 3.65 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

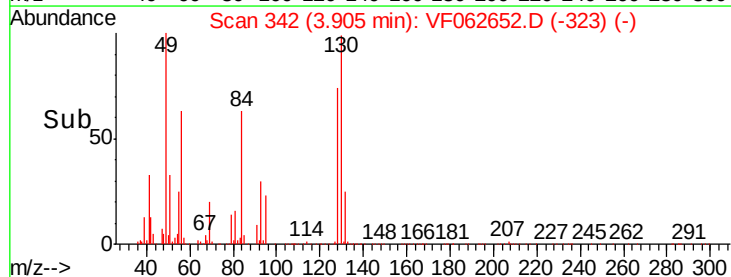
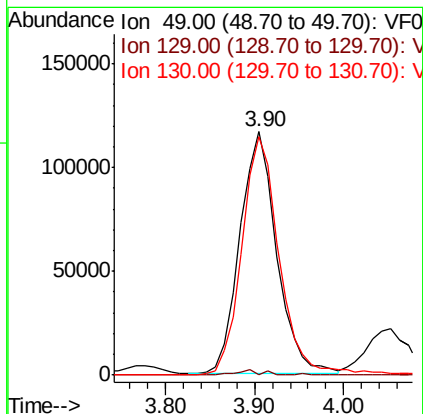
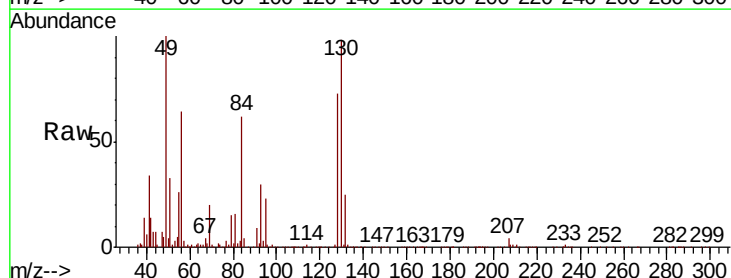
Tgt Ion:	96	Resp:	663796
Ion	Ratio	Lower	Upper
96	100		
61	109.5	0.0	237.4
98	63.7	0.0	129.0

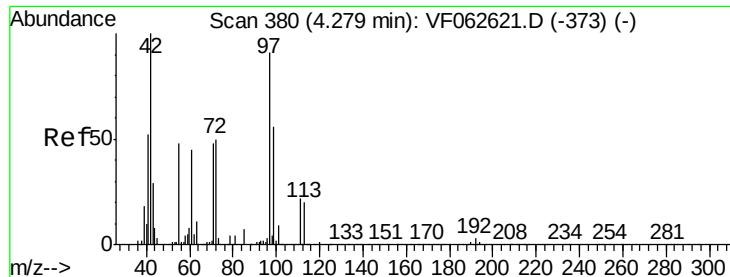


#28

Bromochloromethane
 Concen: 42.423 ug/l
 RT: 3.90 min Scan# 342
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion:	49	Resp:	334401
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	97.7	77.8	116.8





#29

Tetrahydrofuran

Concen: 261.367 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

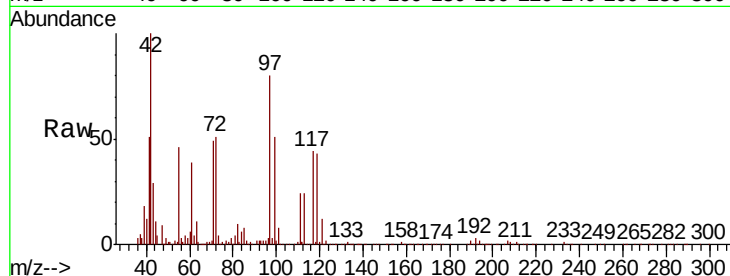
Tgt Ion: 42 Resp: 395798

Ion Ratio Lower Upper

42 100

72 48.0 38.2 57.2

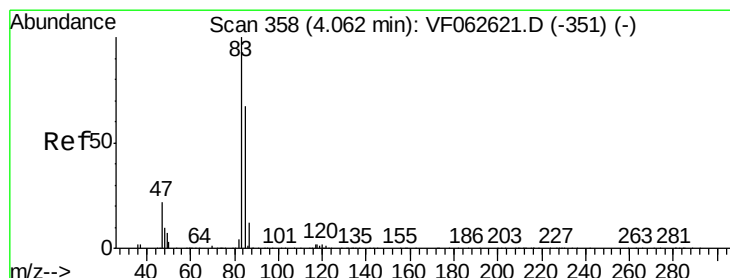
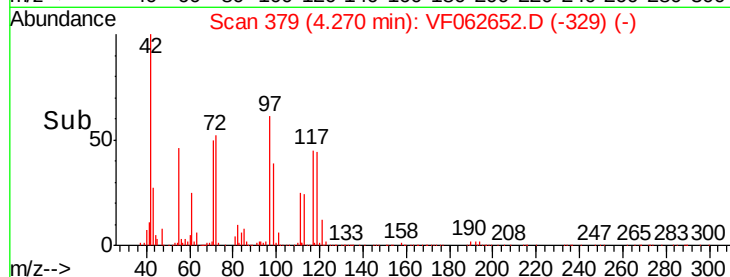
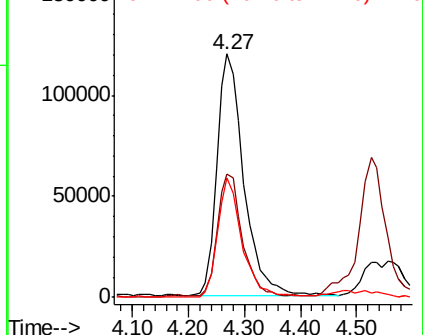
71 45.2 35.8 53.6



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 48.344 ug/l

RT: 4.05 min Scan# 357

Delta R.T. -0.01 min

Lab File: VF062652.D

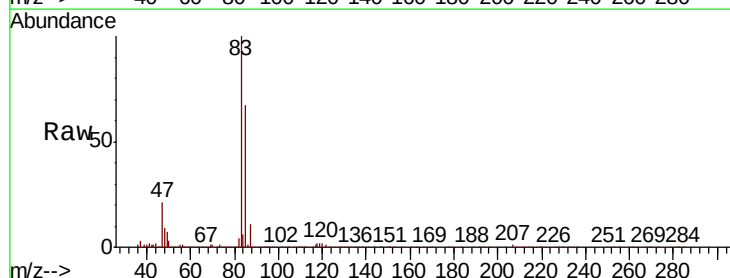
Acq: 20 May 2019 10:28

Tgt Ion: 83 Resp: 943373

Ion Ratio Lower Upper

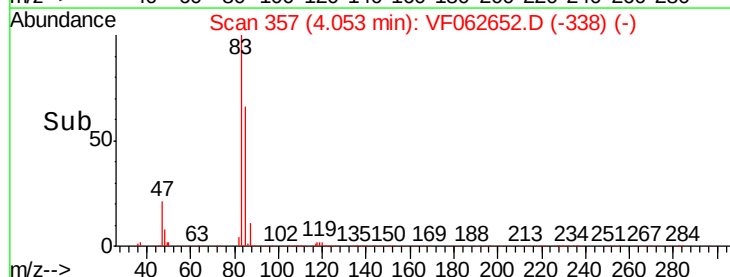
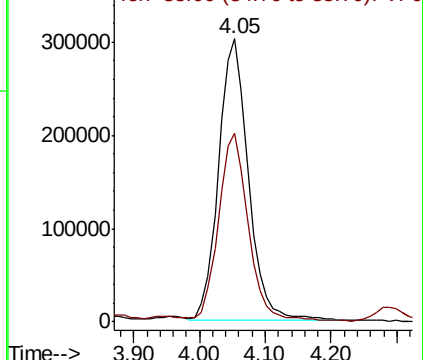
83 100

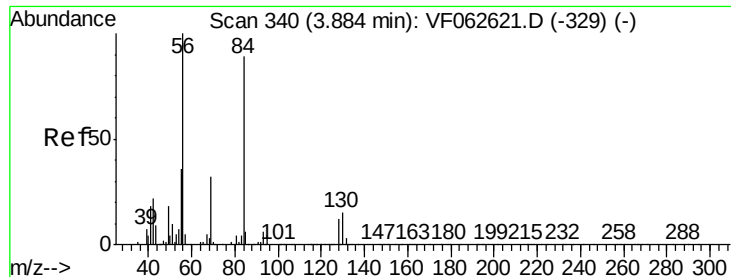
85 66.6 53.6 80.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

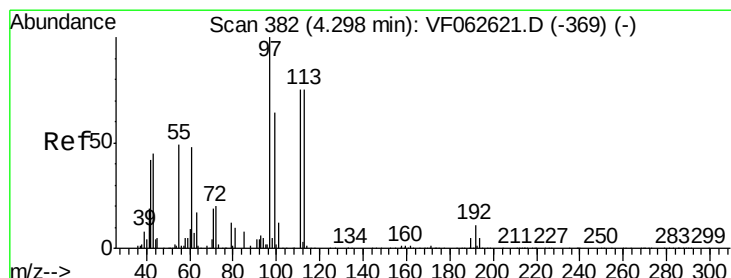
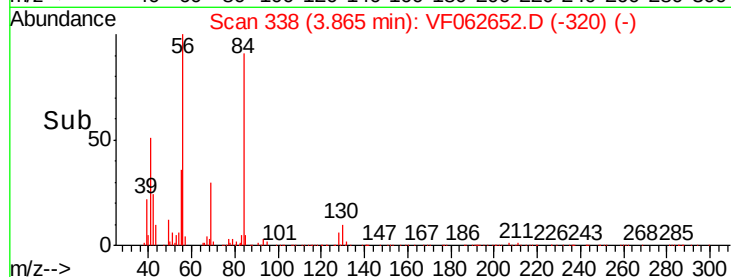
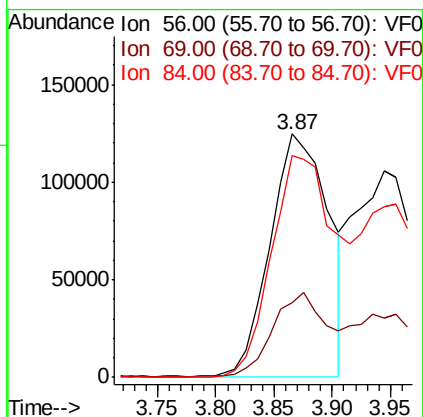
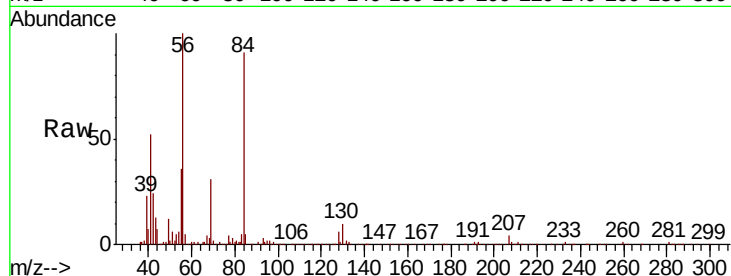




#31
Cyclohexane
Concen: 22.986 ug/l
RT: 3.87 min Scan# 338
Delta R.T. -0.02 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

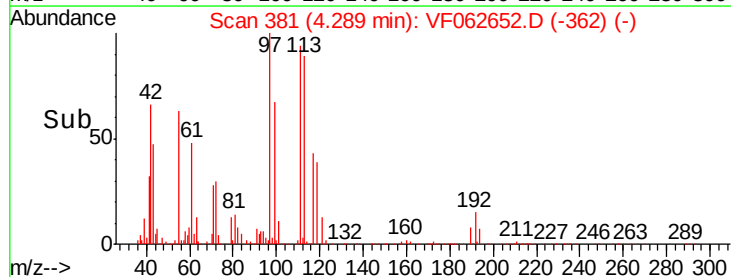
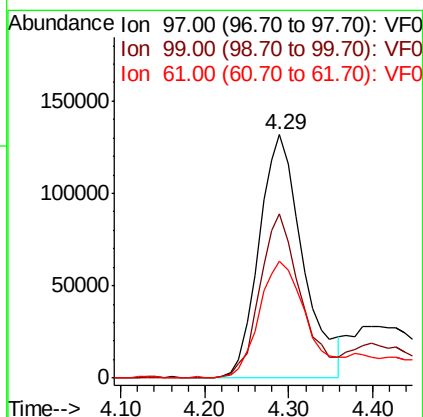
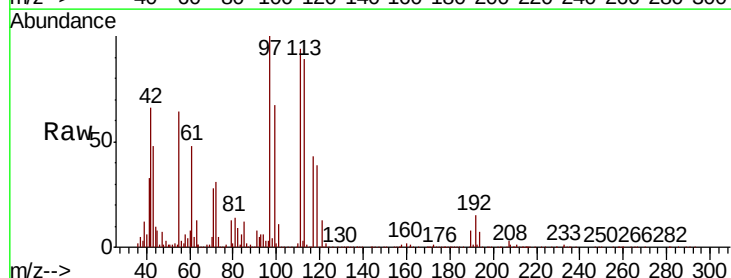
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

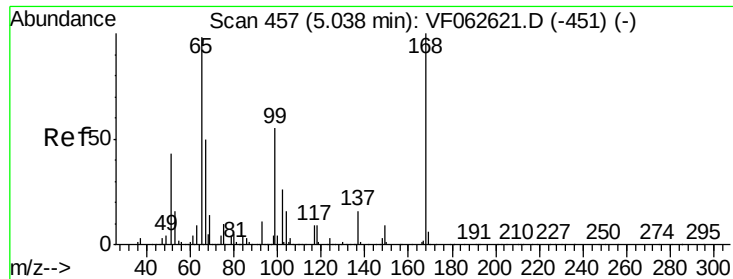
Tgt Ion: 56 Resp: 433783
Ion Ratio Lower Upper
56 100
69 30.6 25.3 37.9
84 91.1 71.0 106.4



#32
1,1,1-Trichloroethane
Concen: 37.064 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion: 97 Resp: 480334
Ion Ratio Lower Upper
97 100
99 67.3 51.3 76.9
61 48.1 38.2 57.2

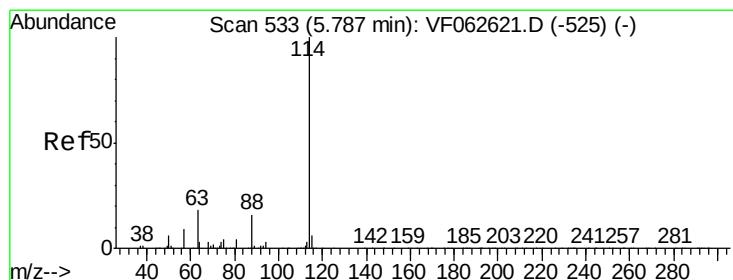
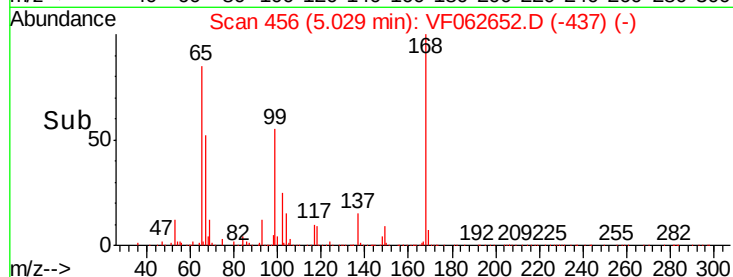
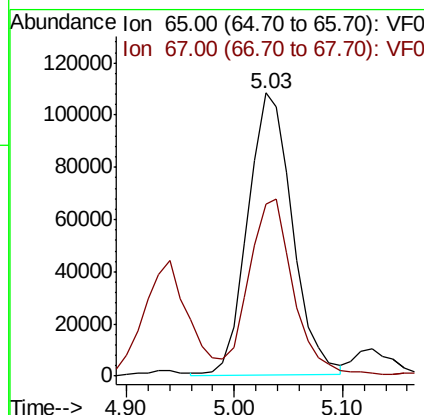
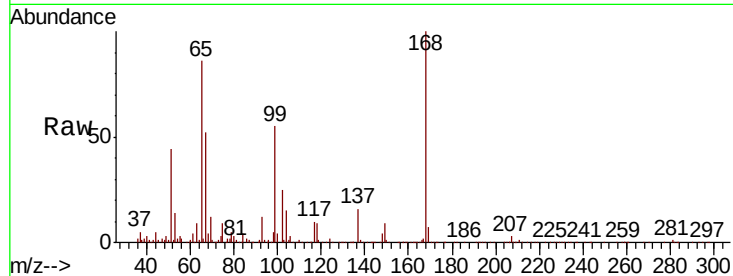




#33
 1,2-Dichloroethane-d4
 Concen: 45.894 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

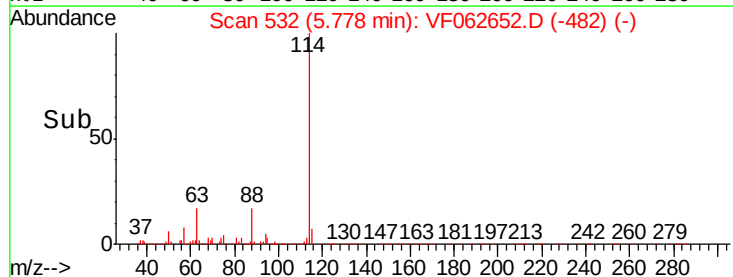
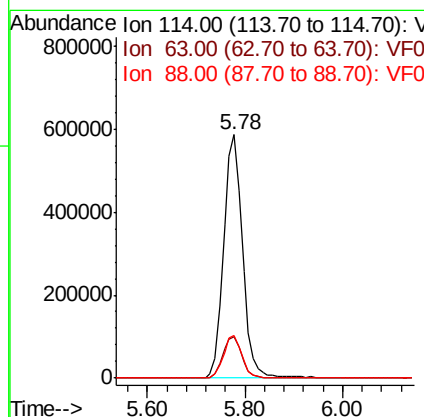
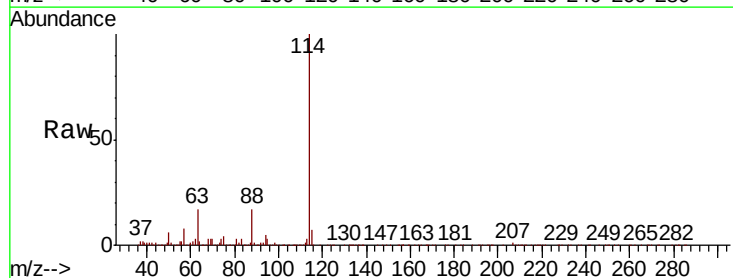
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

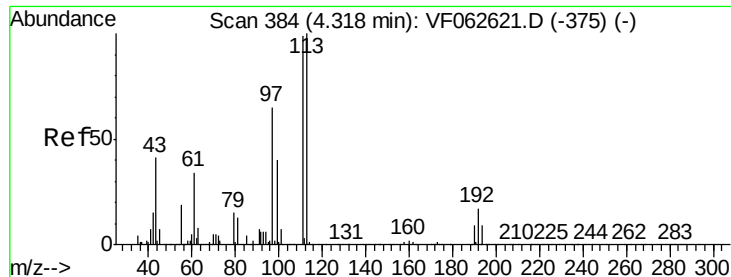
Tgt Ion: 65 Resp: 309855
 Ion Ratio Lower Upper
 65 100
 67 60.9 0.0 117.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion: 114 Resp: 1587323
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 35.4
 88 17.5 0.0 32.4

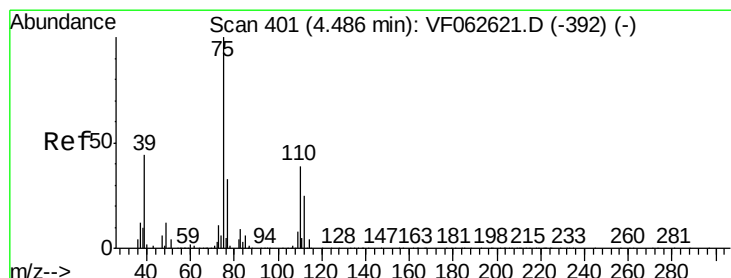
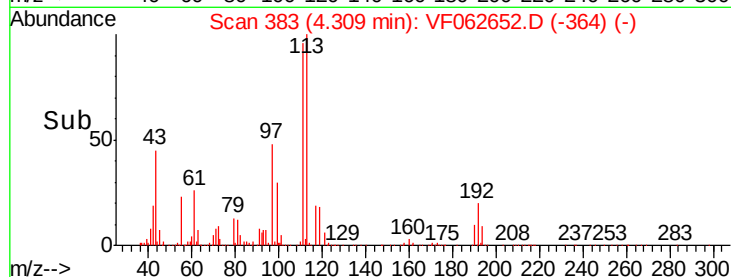
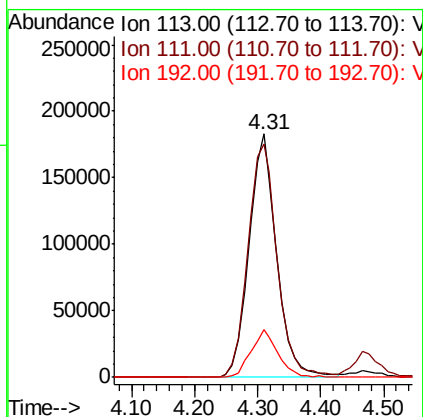
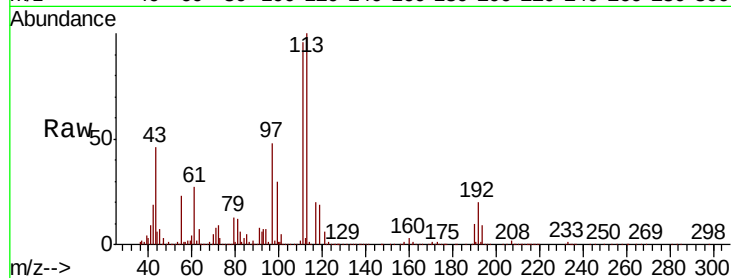




#35
 Dibromofluoromethane
 Concen: 45.884 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

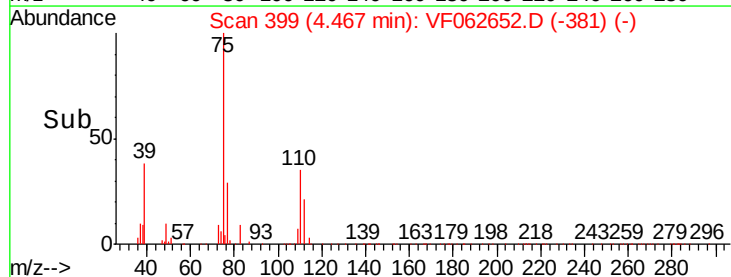
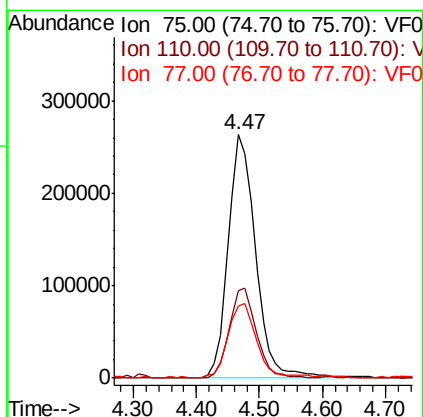
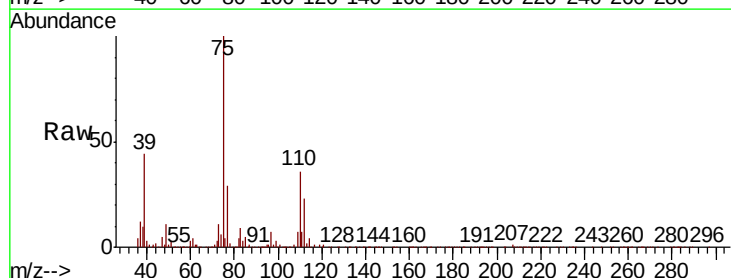
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

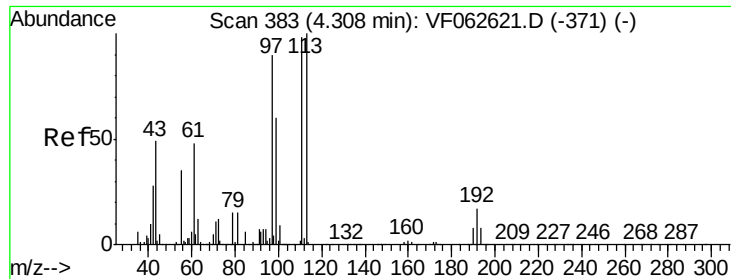
Tgt Ion: 113 Resp: 557314
 Ion Ratio Lower Upper
 113 100
 111 95.9 79.4 119.2
 192 19.6 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 48.563 ug/l
 RT: 4.47 min Scan# 399
 Delta R.T. -0.02 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion: 75 Resp: 789878
 Ion Ratio Lower Upper
 75 100
 110 36.0 19.7 59.1
 77 29.4 26.3 39.5





#37

Ethyl Acetate

Concen: 50.928 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

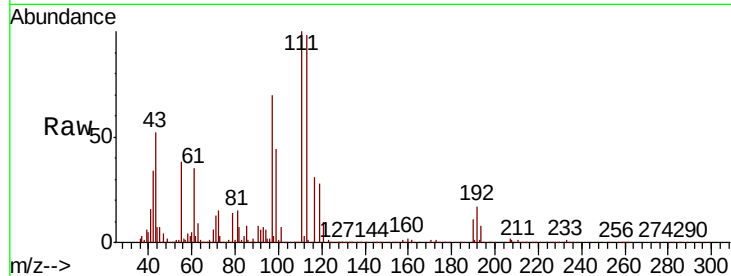
Tgt Ion: 43 Resp: 338216

Ion Ratio Lower Upper

43 100

61 67.5 76.9 115.3#

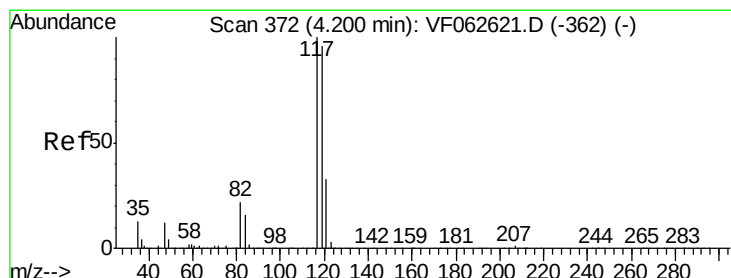
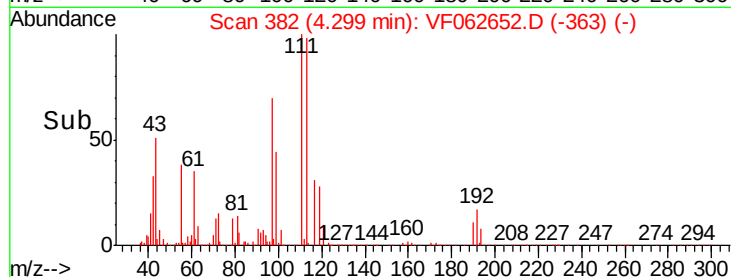
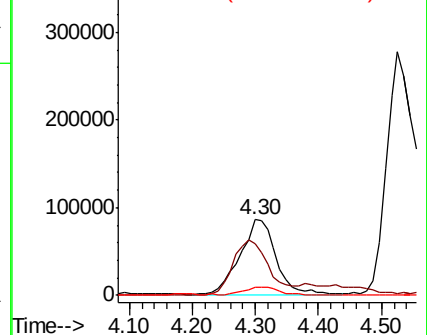
70 10.8 8.8 13.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 40.689 ug/l

RT: 4.18 min Scan# 370

Delta R.T. -0.02 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

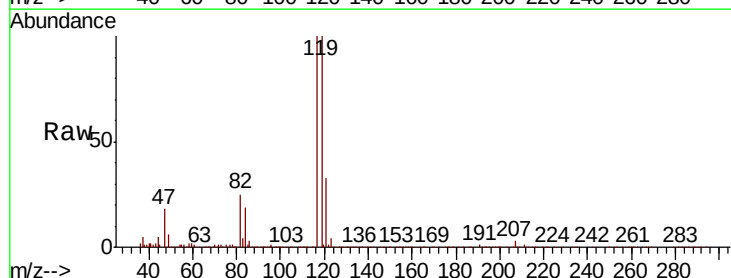
Tgt Ion: 117 Resp: 497740

Ion Ratio Lower Upper

117 100

119 99.8 76.7 115.1

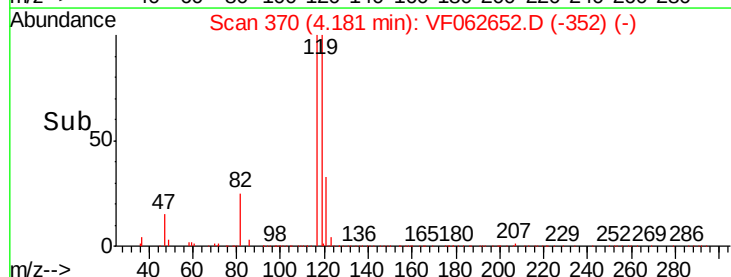
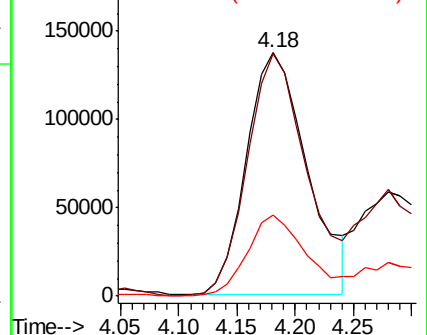
121 33.5 26.6 40.0

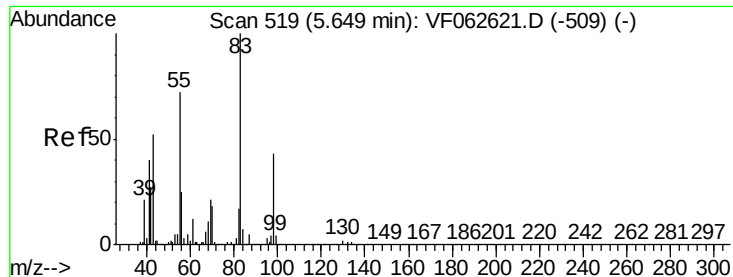


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

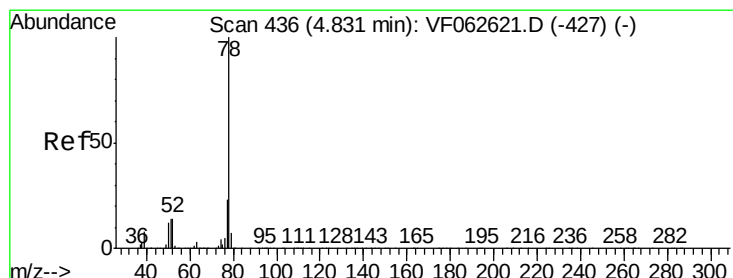
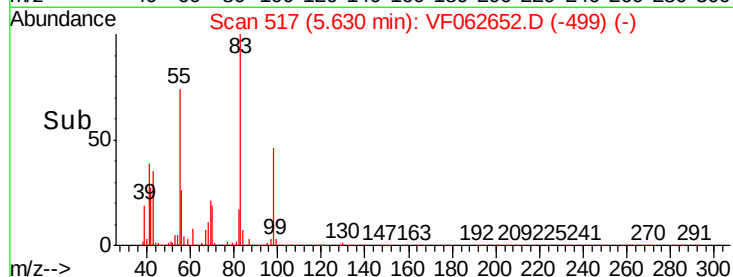
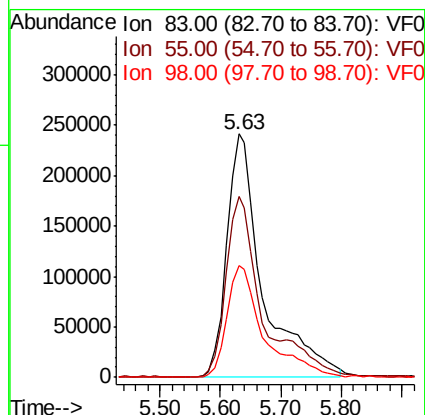
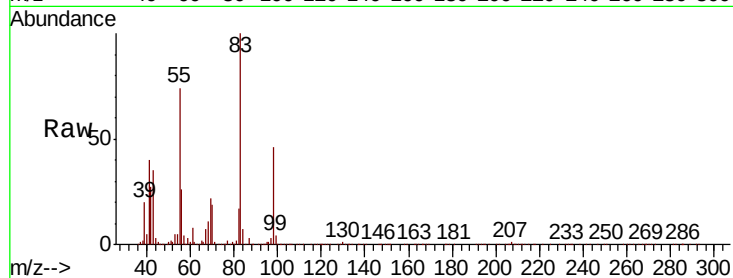




#39
Methylcyclohexane
Concen: 51.011 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.02 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

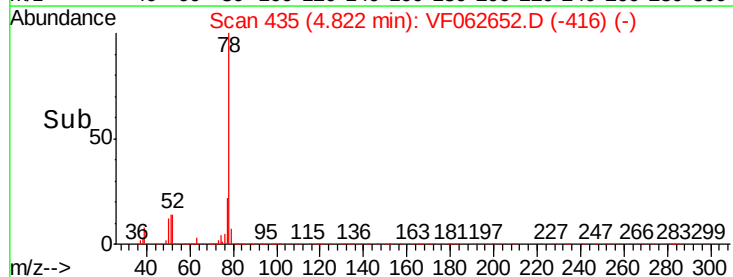
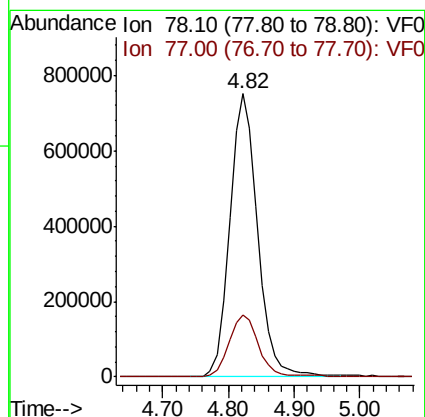
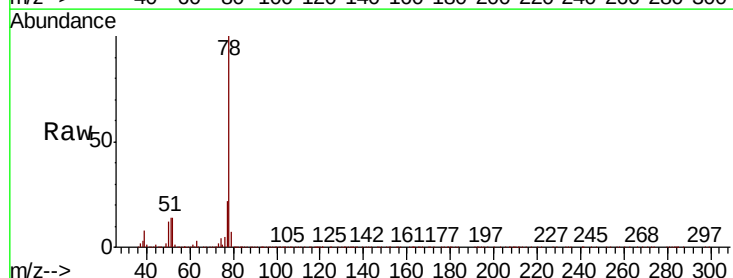
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

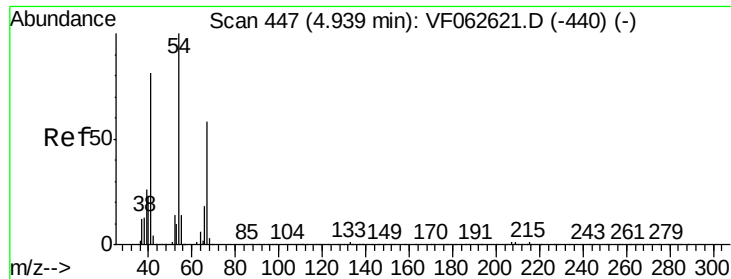
Tgt Ion: 83 Resp: 998332
Ion Ratio Lower Upper
83 100
55 74.2 57.9 86.9
98 46.0 34.6 52.0



#40
Benzene
Concen: 49.989 ug/l
RT: 4.82 min Scan# 435
Delta R.T. -0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion: 78 Resp: 2215041
Ion Ratio Lower Upper
78 100
77 21.7 18.2 27.2





#41

Methacrylonitrile

Concen: 52.814 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 183883

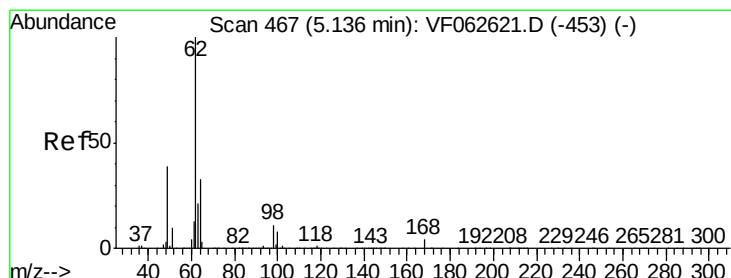
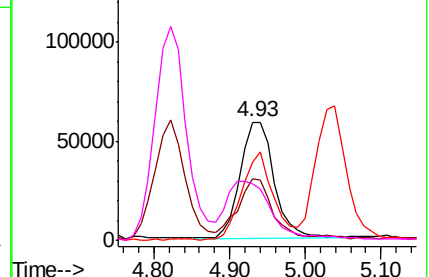
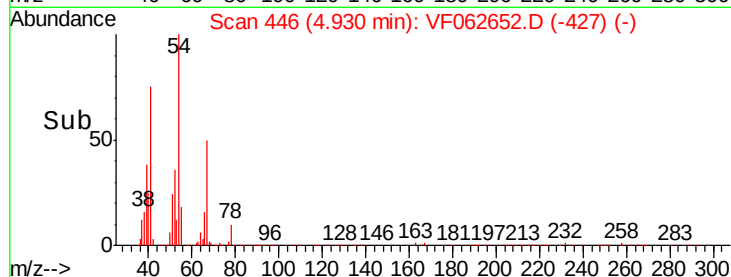
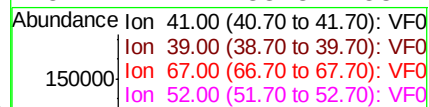
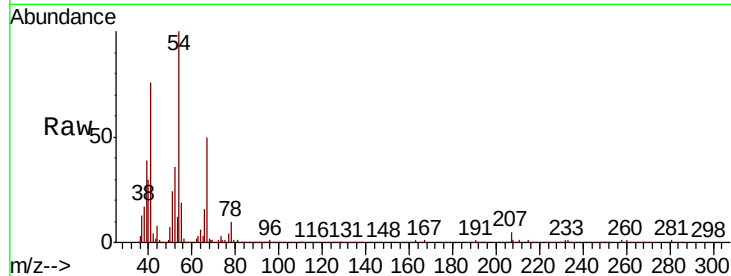
Ion Ratio Lower Upper

41 100

39 51.8 42.2 63.2

67 65.5 56.4 84.6

52 47.1 38.8 58.2



#42

1,2-Dichloroethane

Concen: 50.600 ug/l

RT: 5.13 min Scan# 466

Delta R.T. -0.01 min

Lab File: VF062652.D

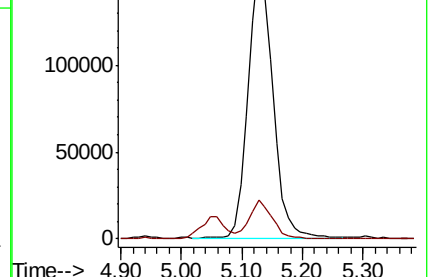
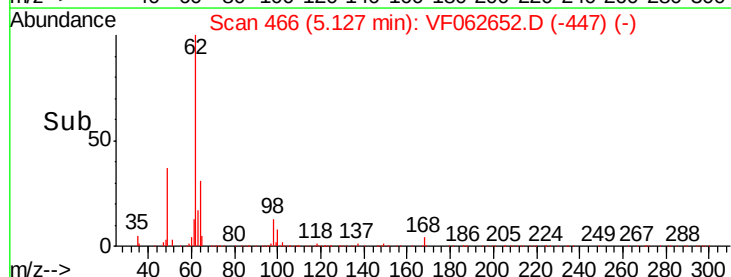
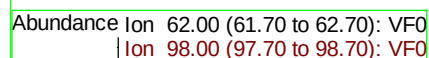
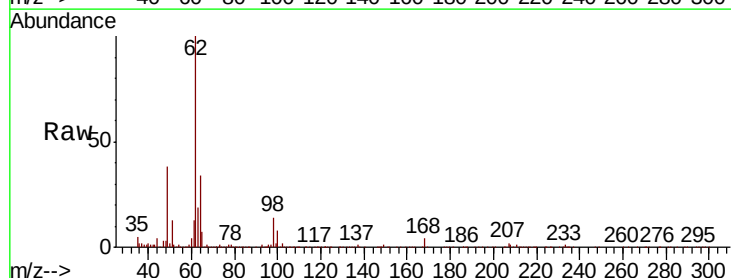
Acq: 20 May 2019 10:28

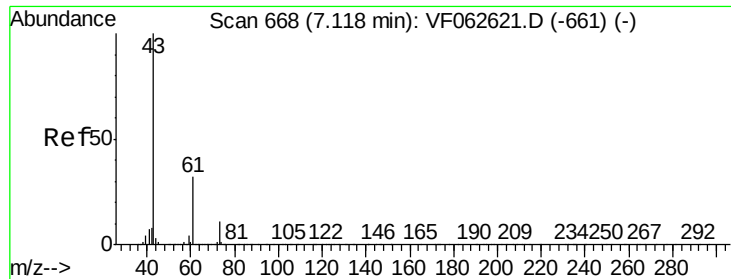
Tgt Ion: 62 Resp: 447116

Ion Ratio Lower Upper

62 100

98 13.5 0.0 21.6





#43

Isopropyl Acetate

Concen: 50.791 ug/l

RT: 7.12 min Scan# 668

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

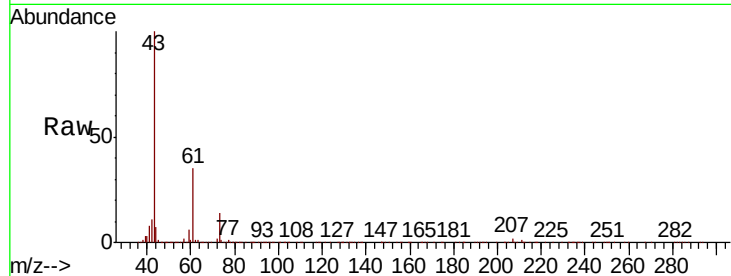
Tgt Ion: 43 Resp: 436995

Ion Ratio Lower Upper

43 100

61 35.2 25.8 38.8

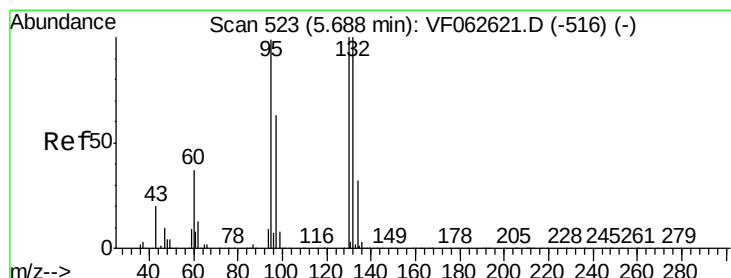
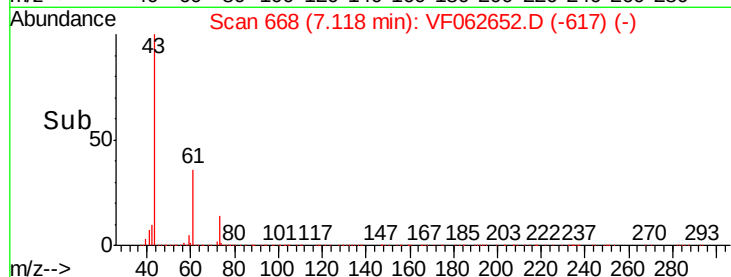
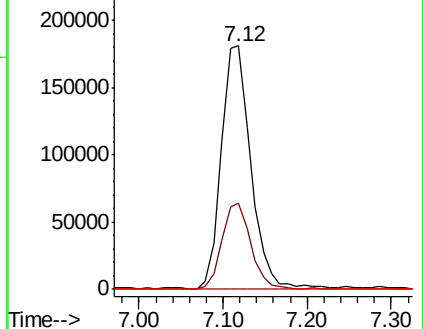
87 0.2 0.4 0.6#



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: 50.020 ug/l

RT: 5.68 min Scan# 522

Delta R.T. -0.01 min

Lab File: VF062652.D

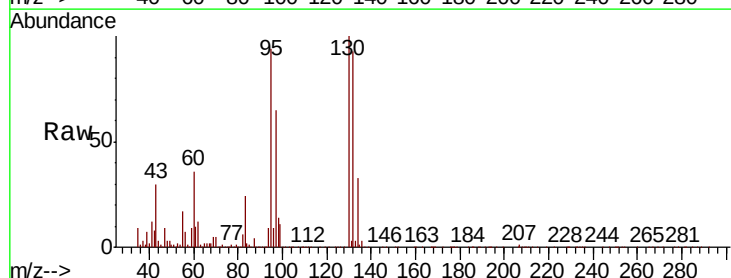
Acq: 20 May 2019 10:28

Tgt Ion: 130 Resp: 622938

Ion Ratio Lower Upper

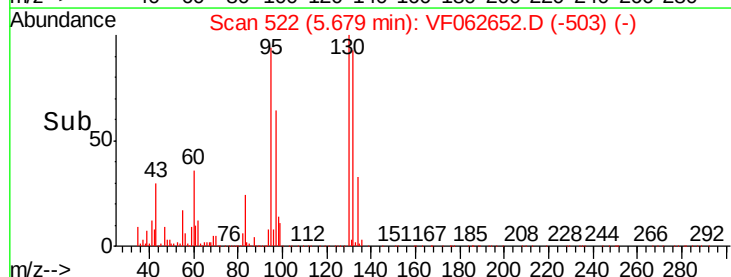
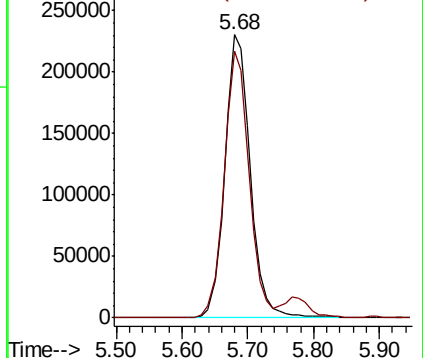
130 100

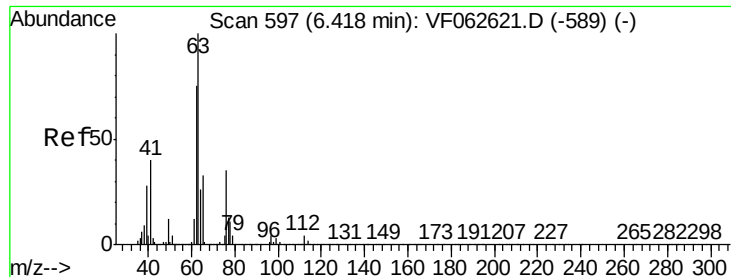
95 94.2 0.0 199.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 50.327 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

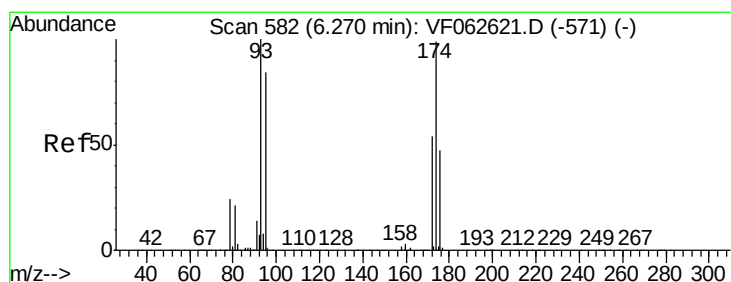
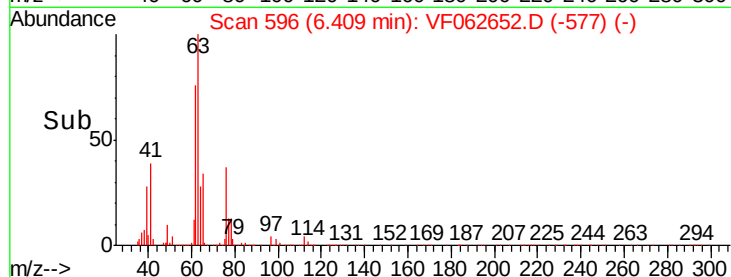
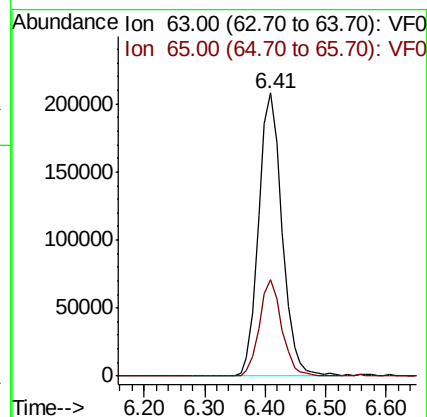
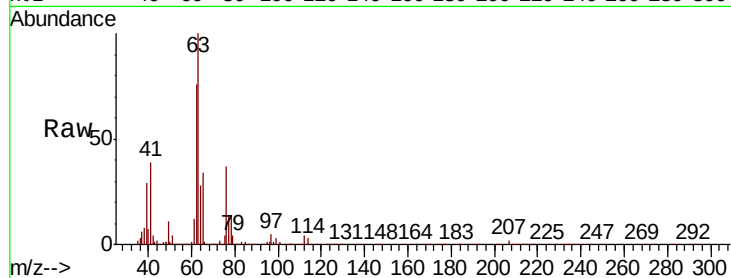
VSTDCCC050

Tgt Ion: 63 Resp: 562935

Ion Ratio Lower Upper

63 100

65 34.1 26.3 39.5



#46

Dibromomethane

Concen: 51.108 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

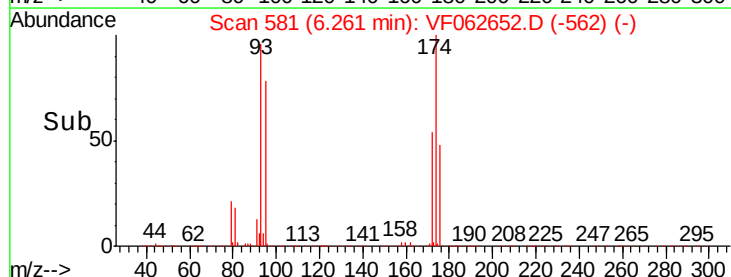
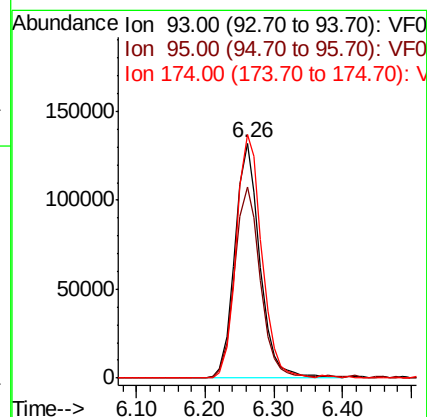
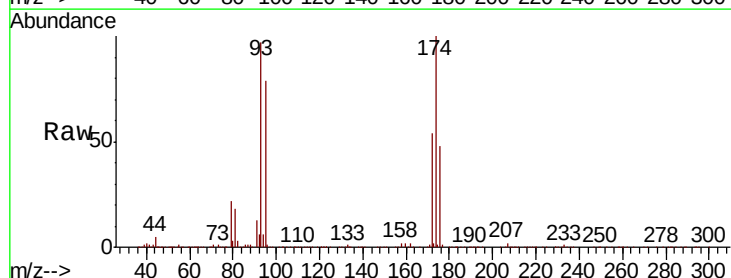
Tgt Ion: 93 Resp: 330387

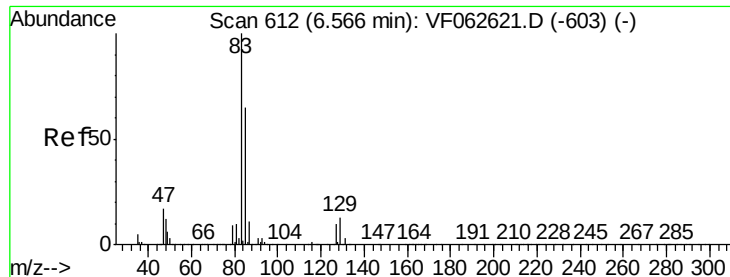
Ion Ratio Lower Upper

93 100

95 81.3 67.4 101.2

174 105.0 79.4 119.2





#47

Bromodichloromethane

Concen: 52.315 ug/l

RT: 6.56 min Scan# 611

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

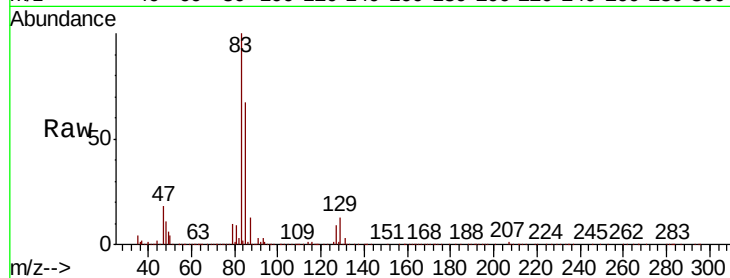
Tgt Ion: 83 Resp: 702076

Ion Ratio Lower Upper

83 100

85 67.3 52.0 78.0

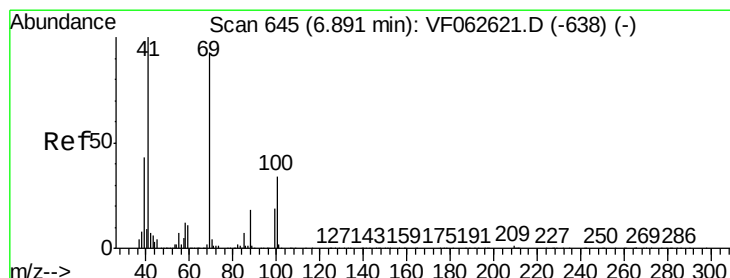
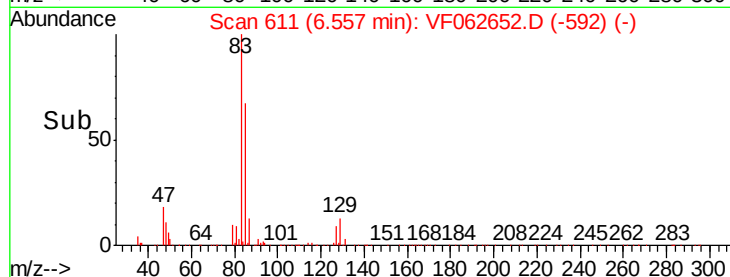
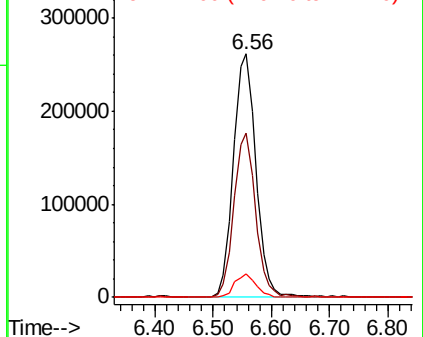
127 9.4 7.7 11.5



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: 54.073 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

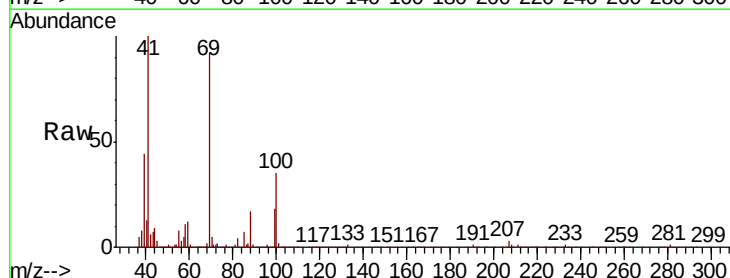
Tgt Ion: 41 Resp: 243169

Ion Ratio Lower Upper

41 100

69 91.8 74.2 111.2

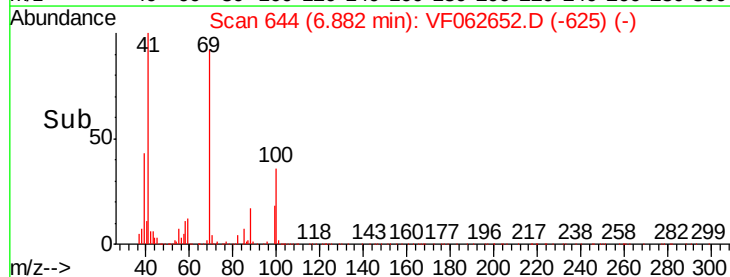
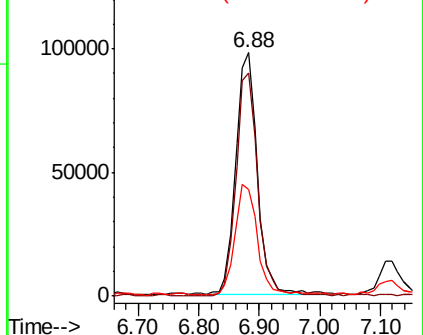
39 43.6 34.2 51.4

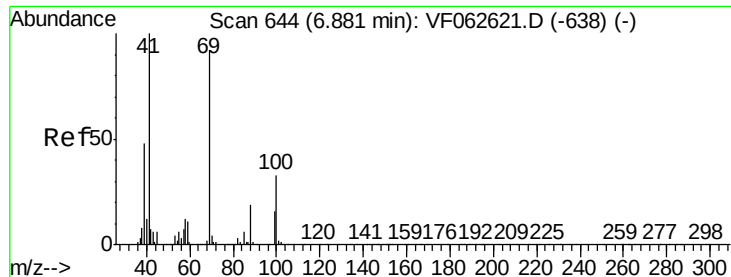


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 1088.026 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

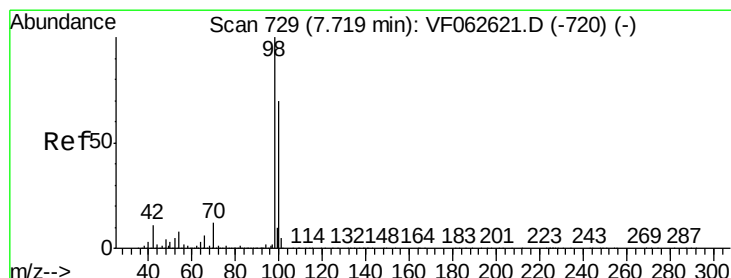
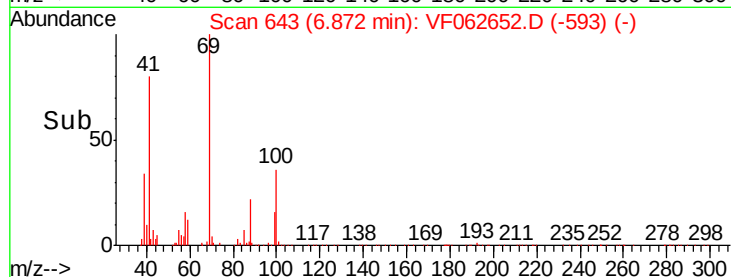
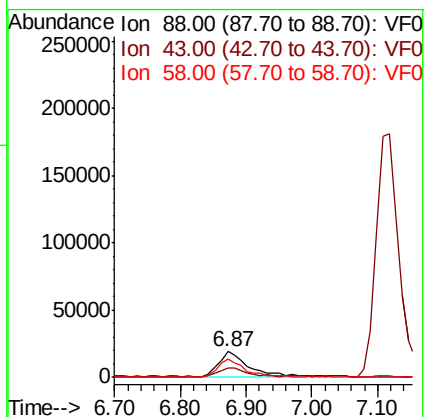
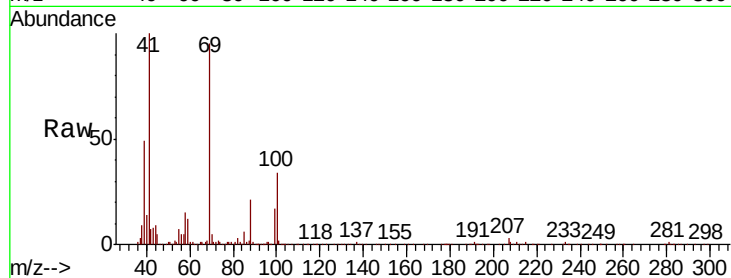
Tgt Ion: 88 Resp: 62668

Ion Ratio Lower Upper

88 100

43 36.2 30.0 45.0

58 72.8 51.1 76.7



#50

Toluene-d8

Concen: 48.635 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062652.D

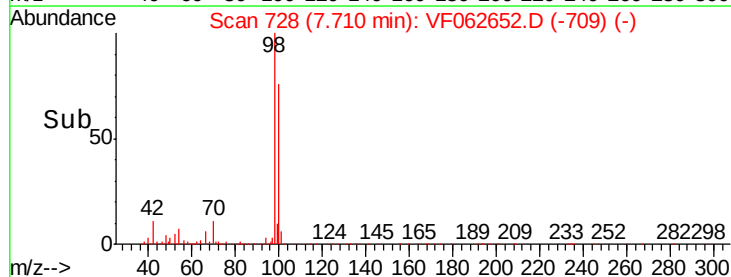
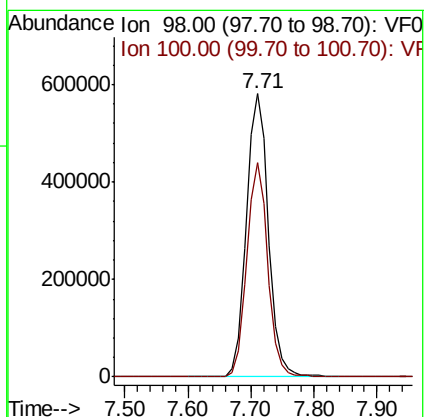
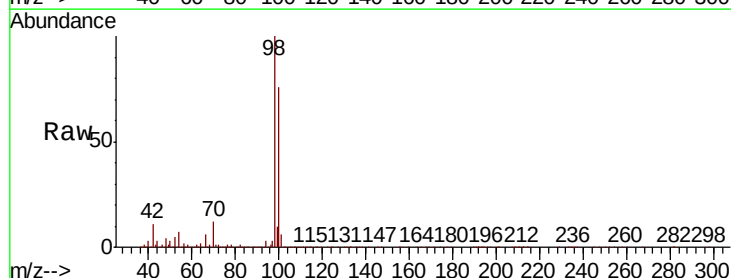
Acq: 20 May 2019 10:28

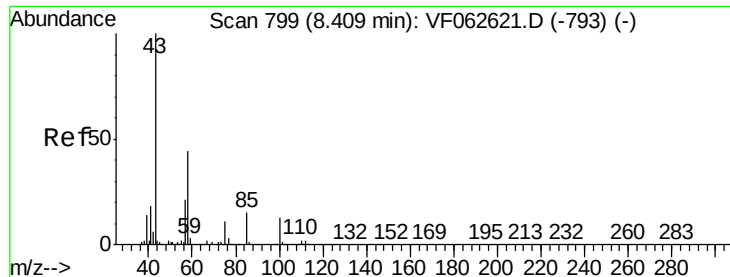
Tgt Ion: 98 Resp: 1410444

Ion Ratio Lower Upper

98 100

100 75.6 56.2 84.2

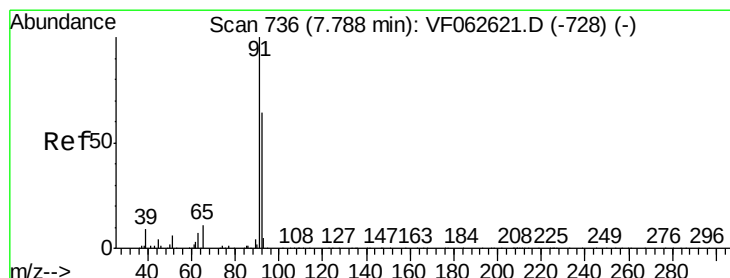
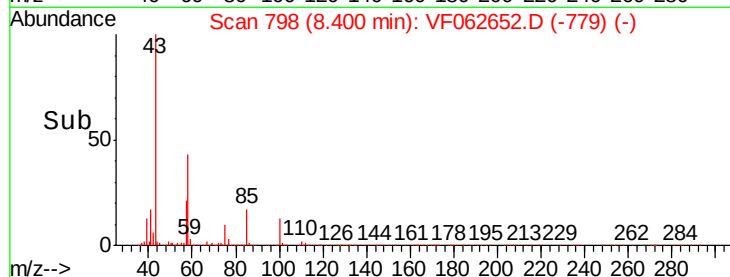
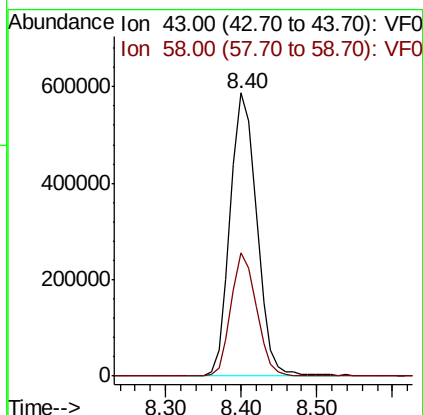
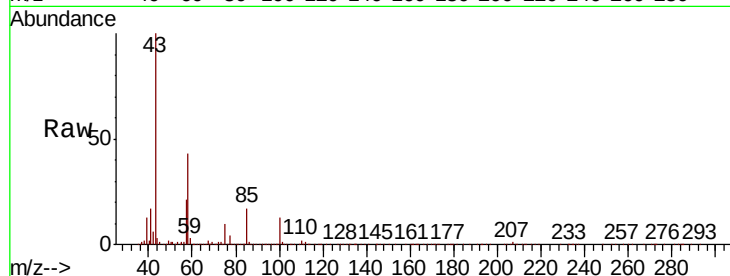




#51
 4-Methyl-2-Pentanone
 Concen: 242.786 ug/l
 RT: 8.40 min Scan# 798
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

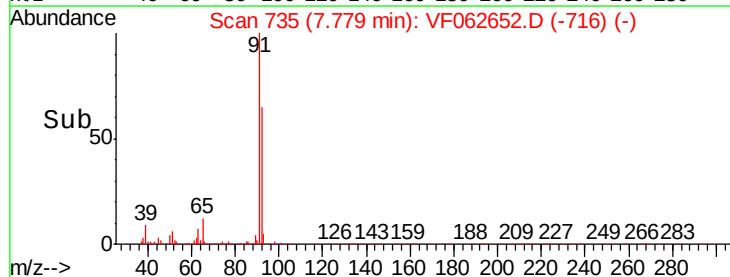
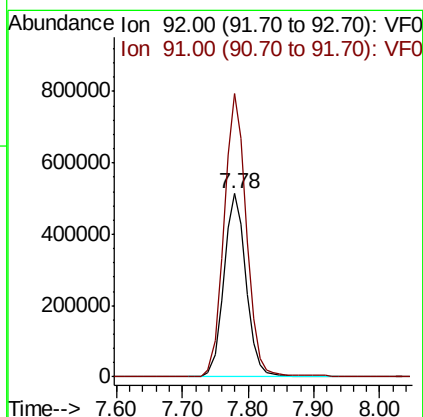
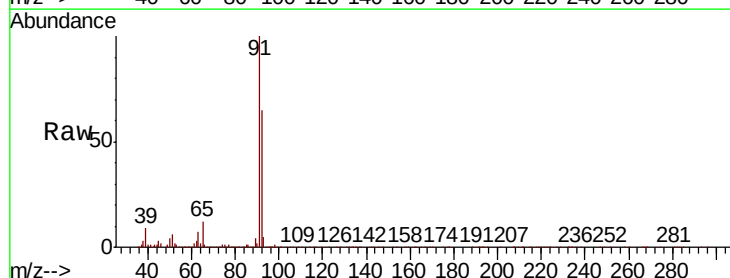
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

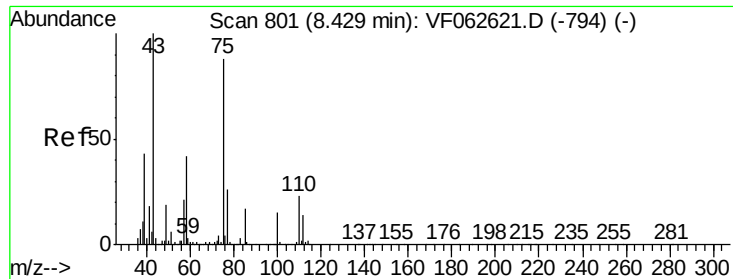
Tgt Ion: 43 Resp: 1427829
 Ion Ratio Lower Upper
 43 100
 58 43.4 34.9 52.3



#52
 Toluene
 Concen: 52.262 ug/l
 RT: 7.78 min Scan# 735
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion: 92 Resp: 1214505
 Ion Ratio Lower Upper
 92 100
 91 154.5 125.4 188.0

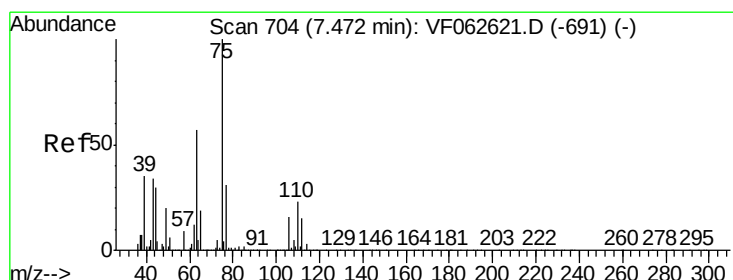
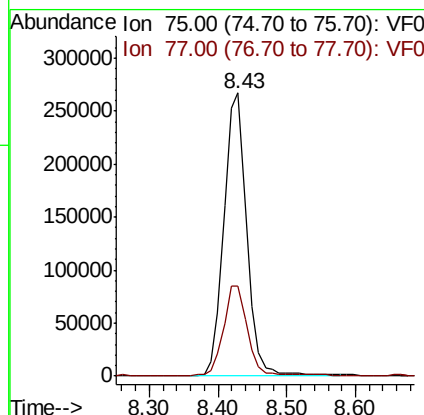
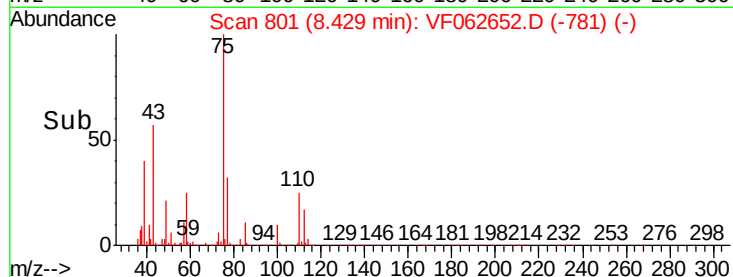
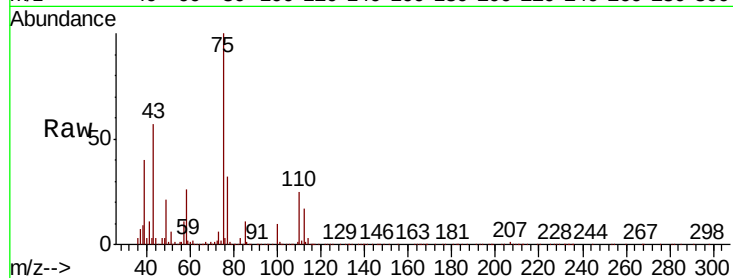




#53
 t-1,3-Dichloropropene
 Concen: 55.335 ug/l
 RT: 8.43 min Scan# 801
 Delta R.T. 0.00 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

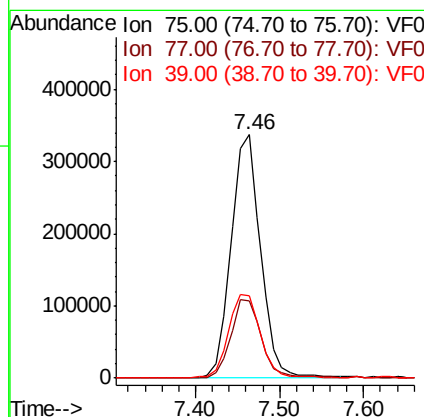
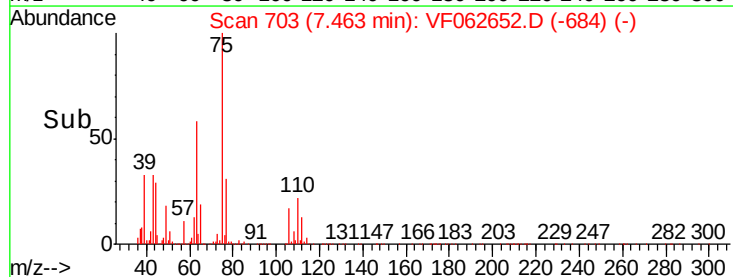
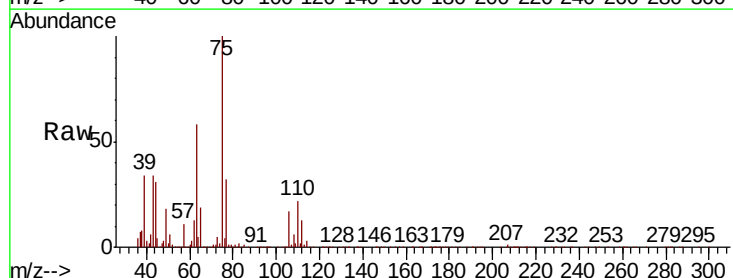
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

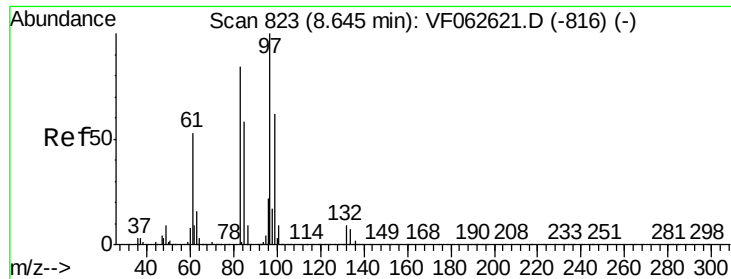
Tgt Ion: 75 Resp: 607549
 Ion Ratio Lower Upper
 75 100
 77 31.9 24.2 36.4



#54
 cis-1,3-Dichloropropene
 Concen: 53.355 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion: 75 Resp: 820026
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.3 37.9
 39 33.7 28.2 42.2





#55

1,1,2-Trichloroethane

Concen: 52.597 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 361901

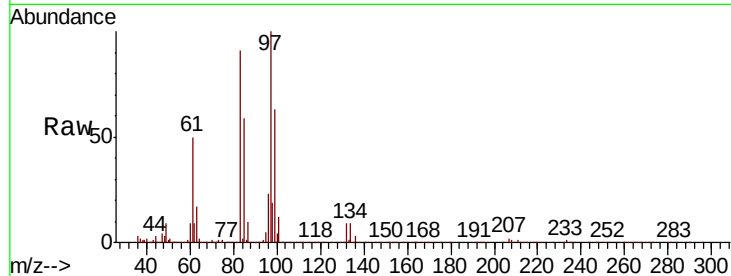
Ion Ratio Lower Upper

97 100

83 90.8 67.3 100.9

85 58.6 46.6 69.8

99 63.4 49.7 74.5

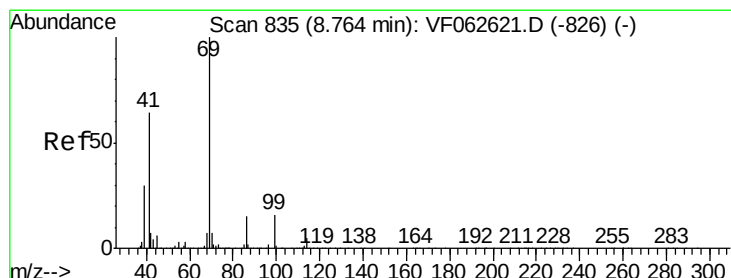
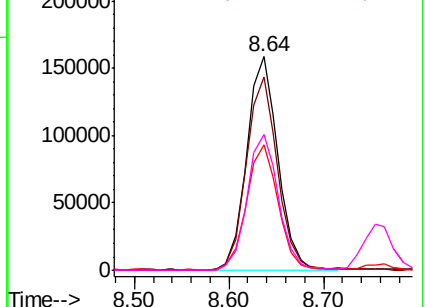
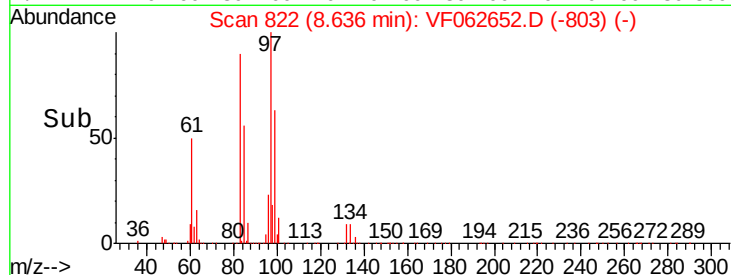


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 51.120 ug/l

RT: 8.75 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

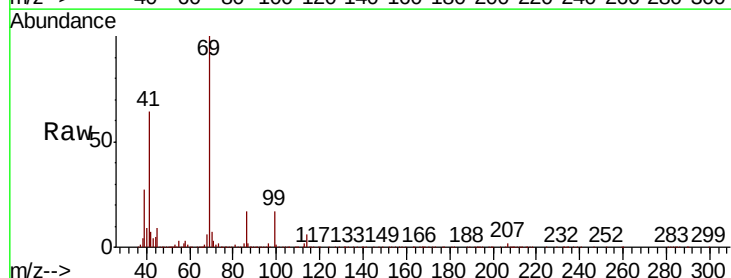
Tgt Ion: 69 Resp: 419054

Ion Ratio Lower Upper

69 100

41 63.9 51.4 77.2

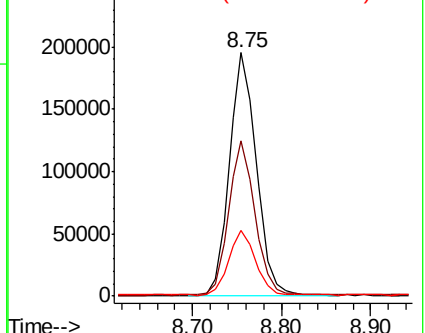
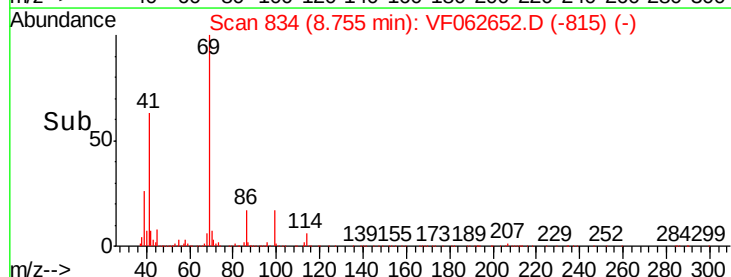
39 27.0 23.6 35.4

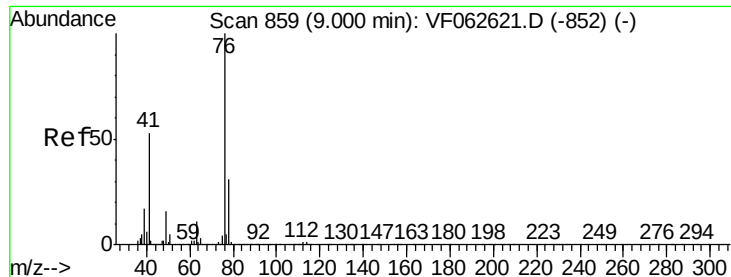


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 52.290 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

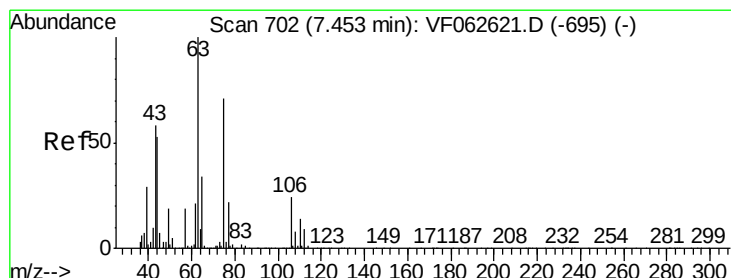
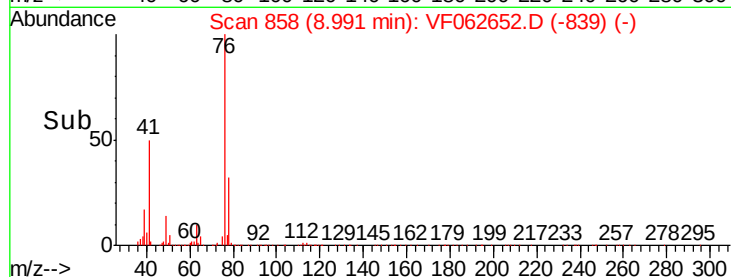
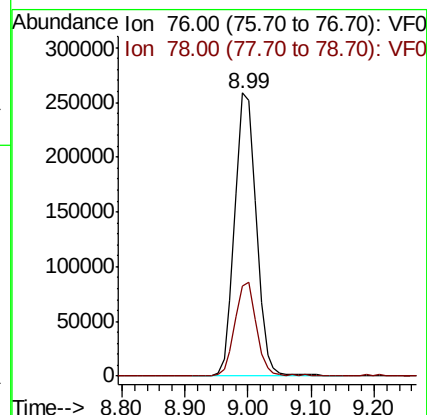
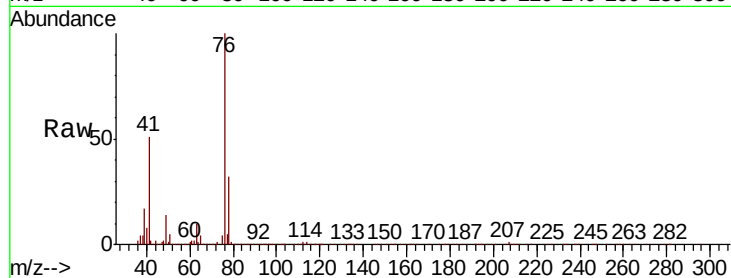
VSTDCCC050

Tgt Ion: 76 Resp: 612827

Ion Ratio Lower Upper

76 100

78 31.9 25.4 38.0



#58

2-Chloroethyl Vinyl ether

Concen: 255.722 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF062652.D

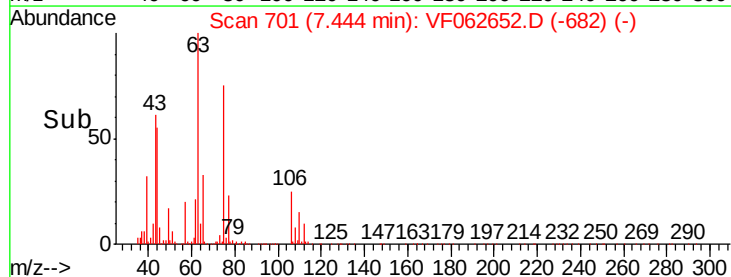
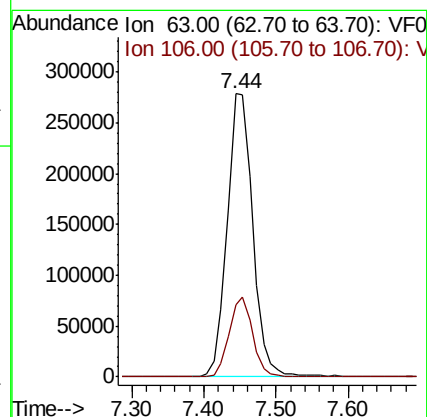
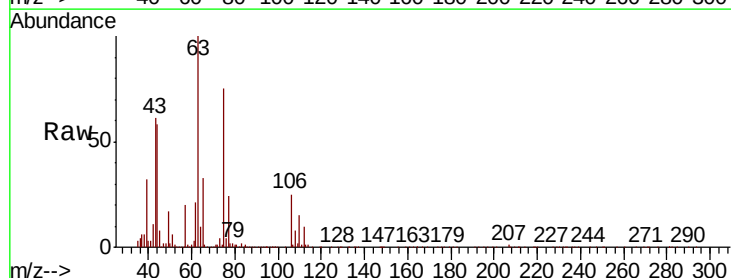
Acq: 20 May 2019 10:28

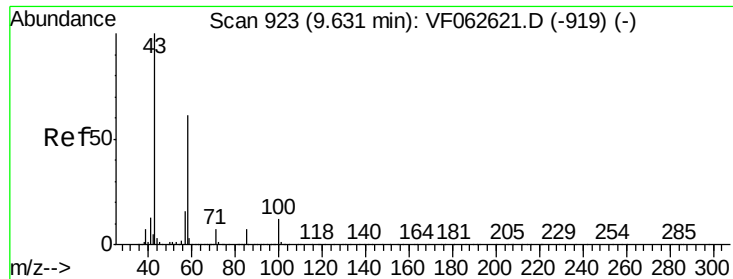
Tgt Ion: 63 Resp: 682332

Ion Ratio Lower Upper

63 100

106 25.5 19.1 28.7

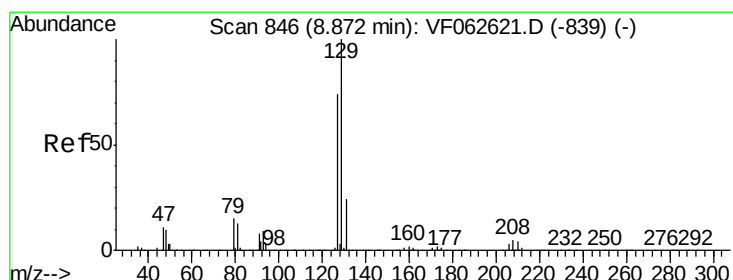
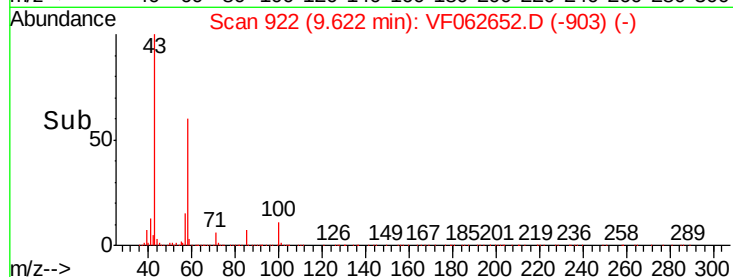
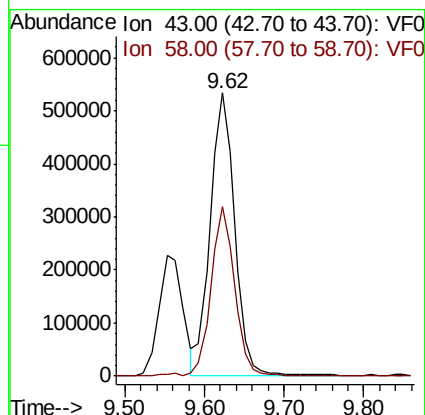
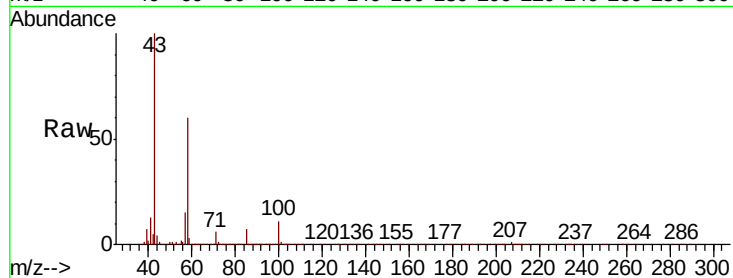




#59
2-Hexanone
Concen: 302.748 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

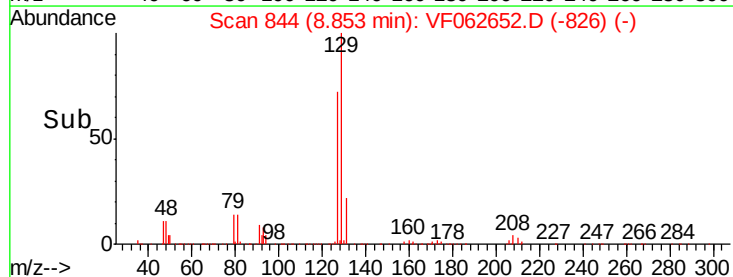
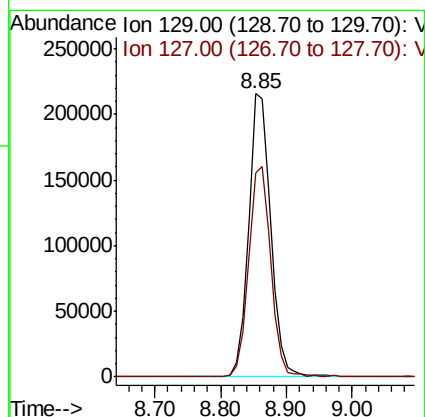
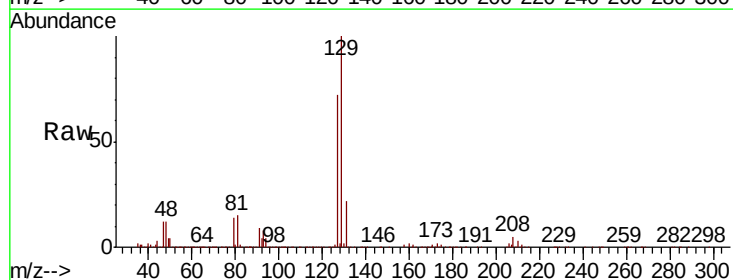
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

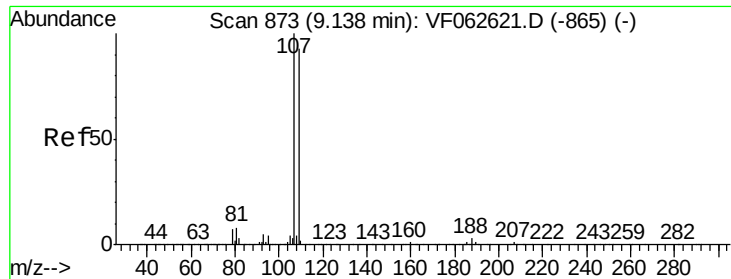
Tgt Ion: 43 Resp: 1144003
Ion Ratio Lower Upper
43 100
58 60.0 28.1 84.4



#60
Dibromochloromethane
Concen: 56.551 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.02 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion: 129 Resp: 507132
Ion Ratio Lower Upper
129 100
127 72.0 37.2 111.6





#61

1,2-Dibromoethane

Concen: 53.828 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

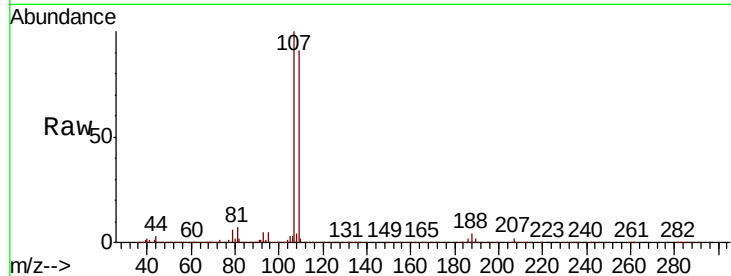
VSTDCCC050

Tgt Ion: 107 Resp: 393387

Ion Ratio Lower Upper

107 100

109 91.2 74.8 112.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

200000

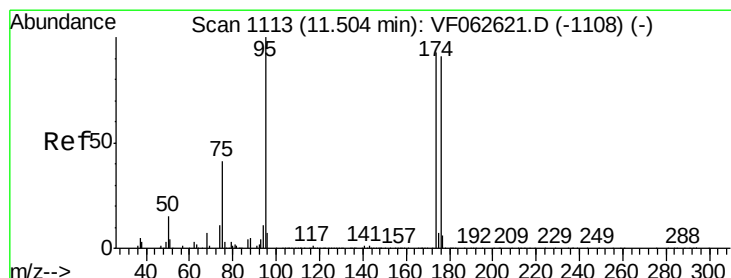
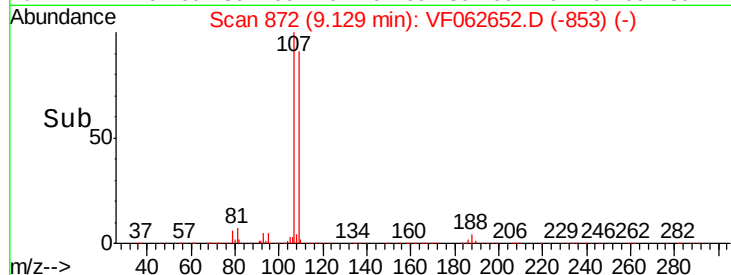
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.815 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

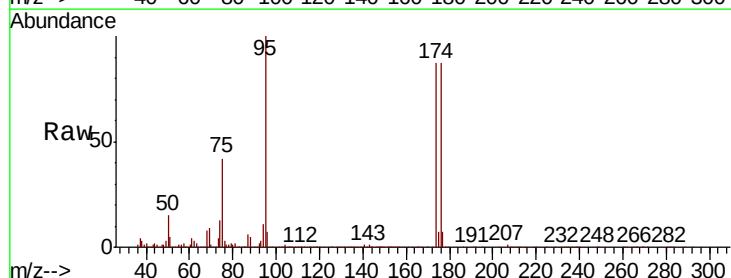
Tgt Ion: 95 Resp: 558917

Ion Ratio Lower Upper

95 100

174 86.8 0.0 185.6

176 87.0 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

11.49

400000

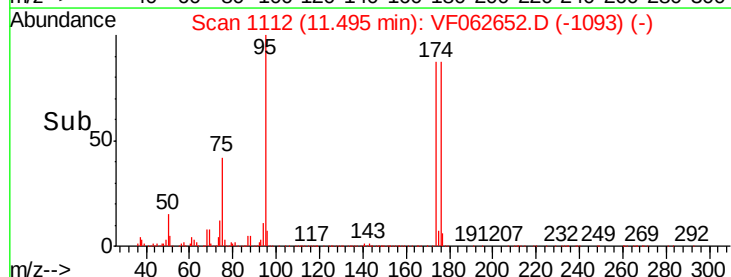
300000

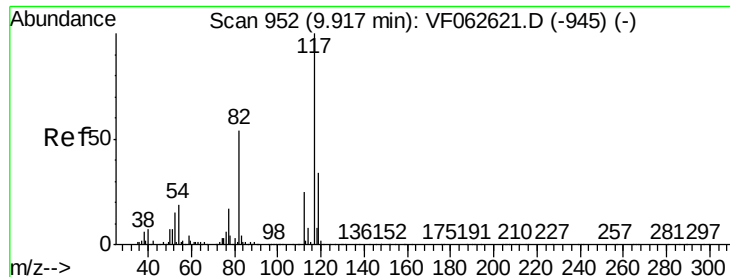
200000

100000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

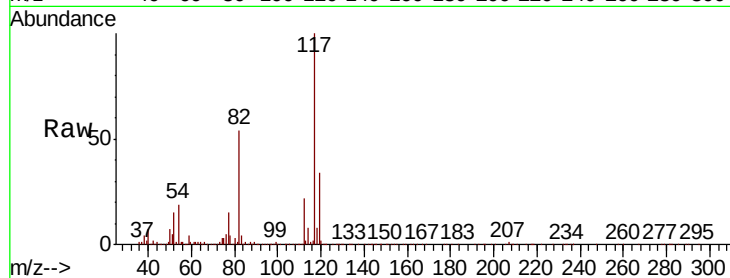
Tgt Ion:117 Resp: 1173886

Ion Ratio Lower Upper

117 100

82 54.3 43.3 64.9

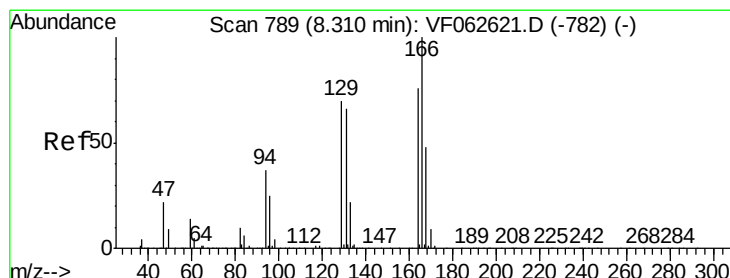
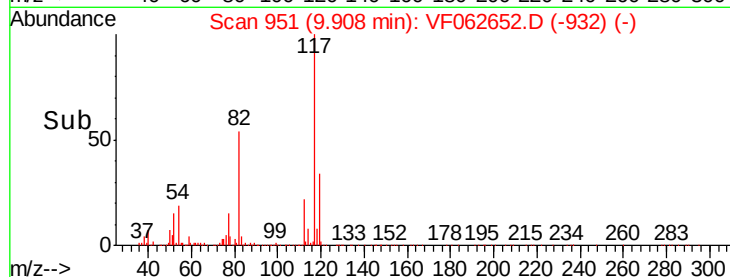
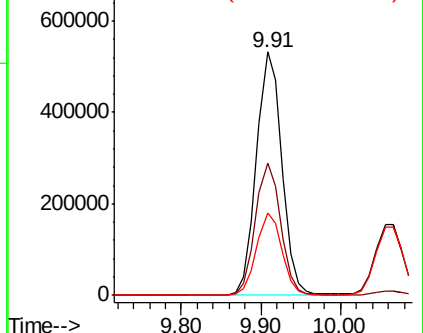
119 34.0 27.4 41.0



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: 54.948 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Tgt Ion:164 Resp: 511011

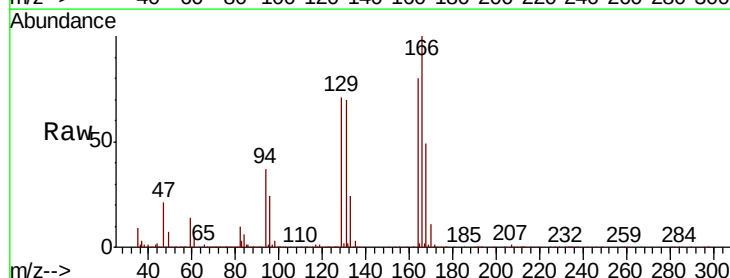
Ion Ratio Lower Upper

164 100

166 124.9 105.5 158.3

129 88.4 73.8 110.6

131 87.4 69.5 104.3

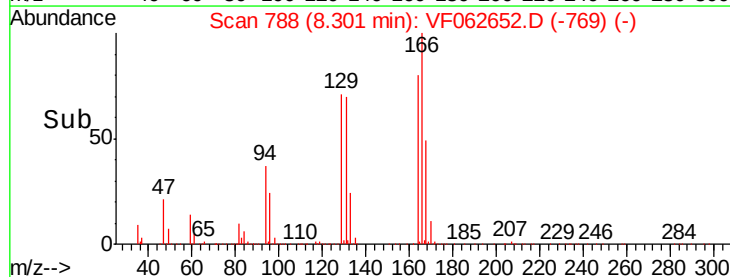
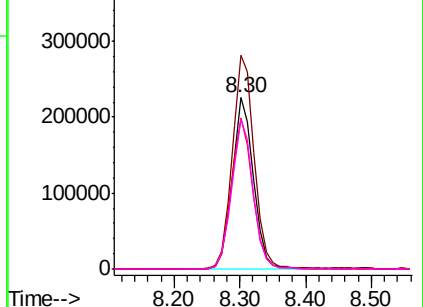


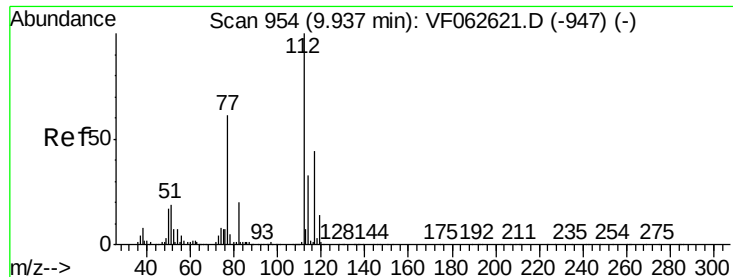
Abundance Ion 163.85 (163.55 to 164.55): V

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

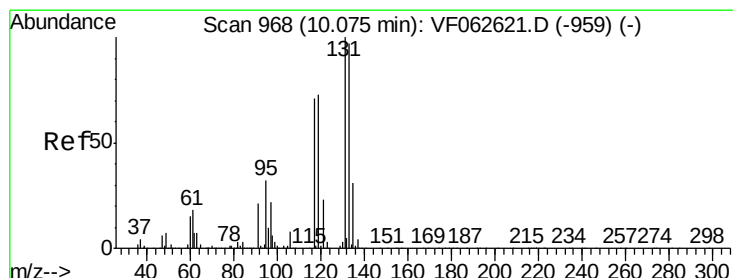
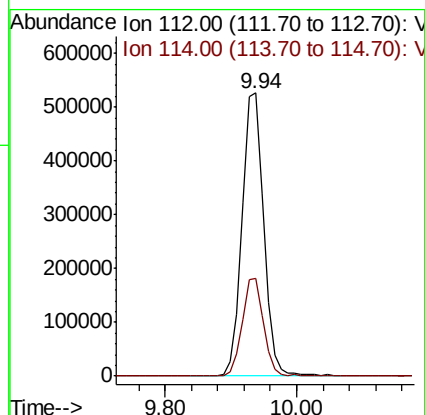
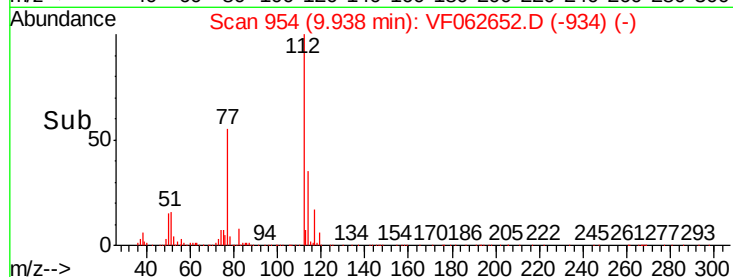
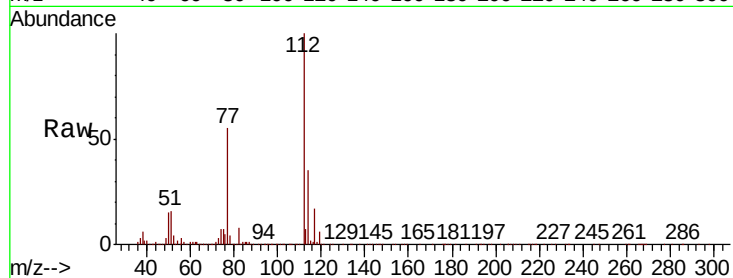




#65
Chlorobenzene
Concen: 53.078 ug/l
RT: 9.94 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

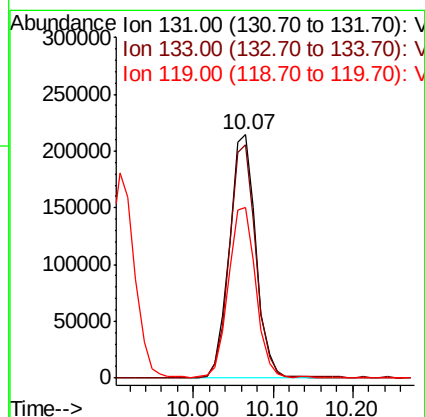
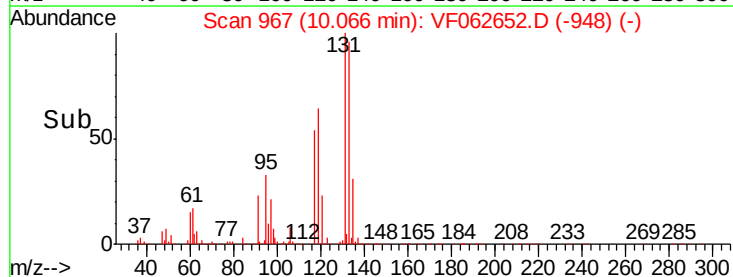
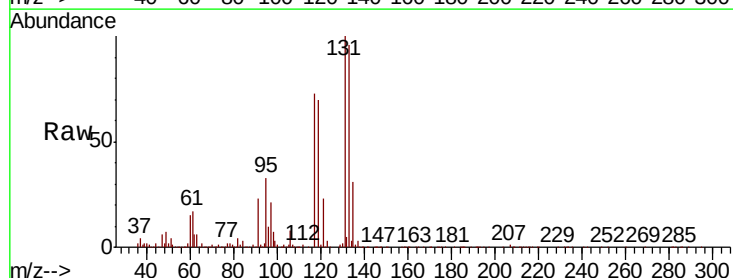
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

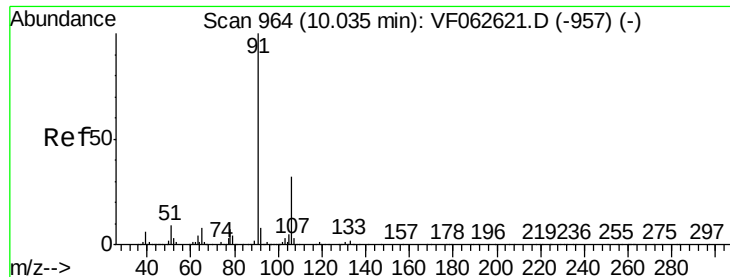
Tgt Ion:112 Resp: 1223788
Ion Ratio Lower Upper
112 100
114 34.6 26.8 40.2



#66
1,1,1,2-Tetrachloroethane
Concen: 54.379 ug/l
RT: 10.07 min Scan# 967
Delta R.T. -0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion:131 Resp: 503323
Ion Ratio Lower Upper
131 100
133 95.8 48.5 145.5
119 70.1 36.8 110.4





#67

Ethyl Benzene

Concen: 50.836 ug/l

RT: 10.03 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

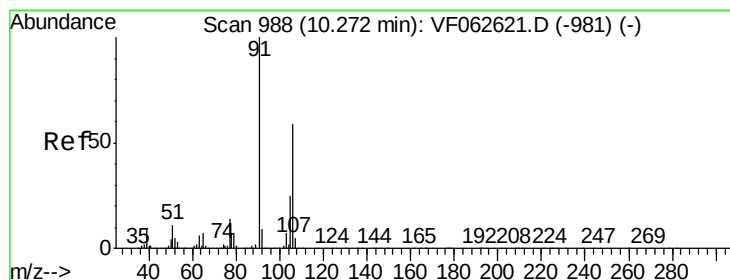
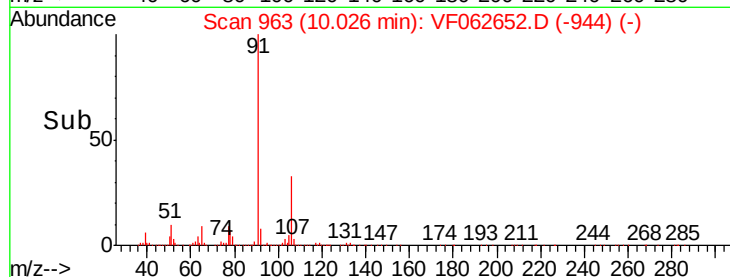
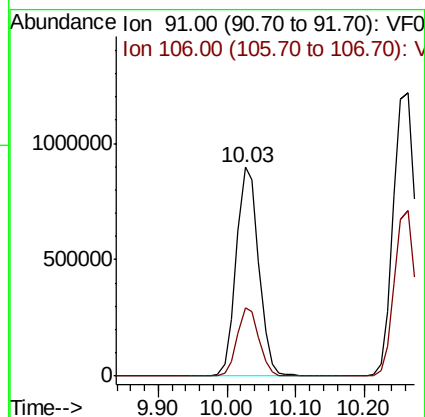
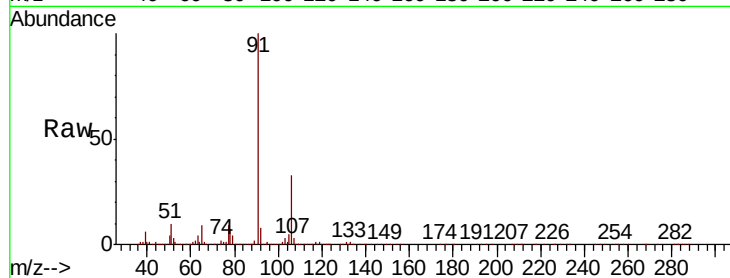
VSTDCCC050

Tgt Ion: 91 Resp: 2036179

Ion Ratio Lower Upper

91 100

106 33.0 25.8 38.8



#68

m/p-Xylenes

Concen: 101.822 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF062652.D

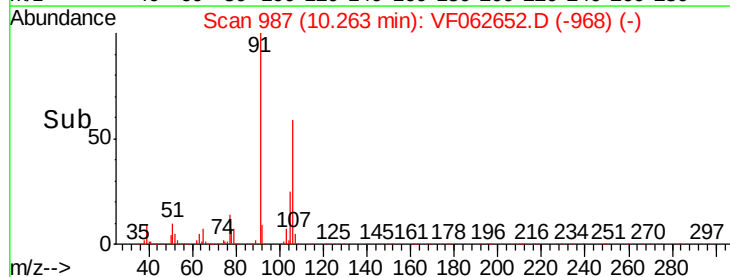
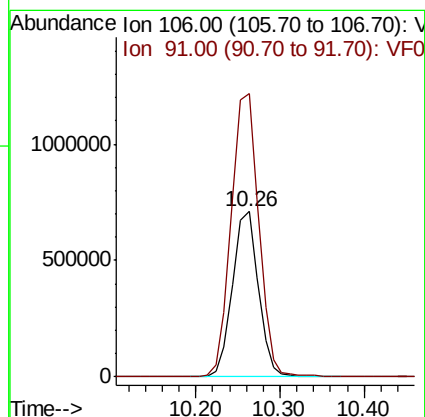
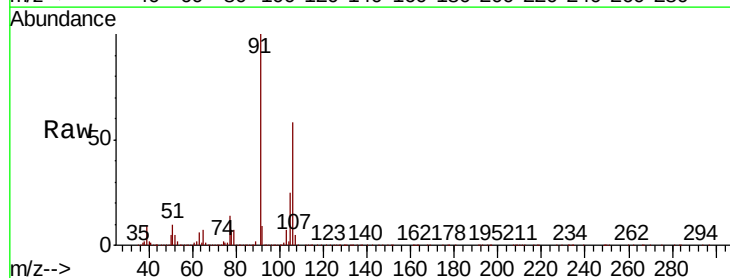
Acq: 20 May 2019 10:28

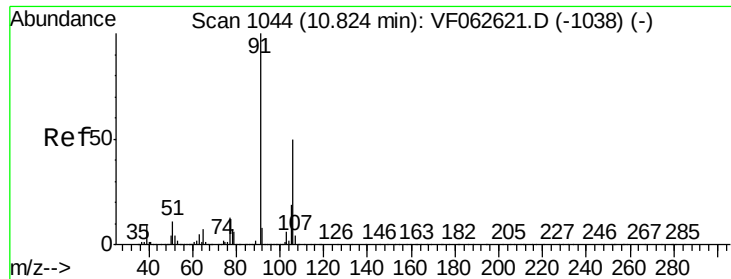
Tgt Ion: 106 Resp: 1532828

Ion Ratio Lower Upper

106 100

91 171.4 136.9 205.3

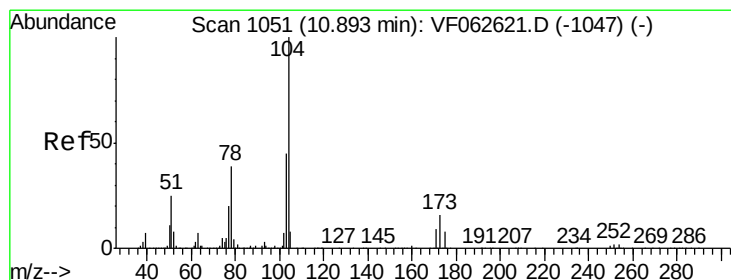
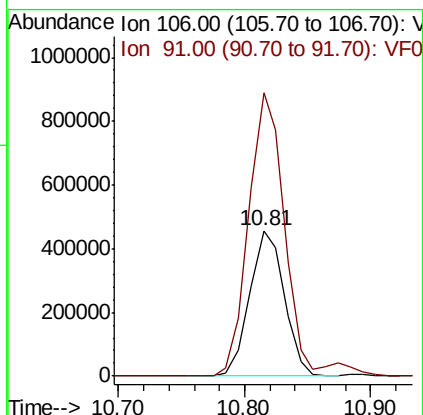
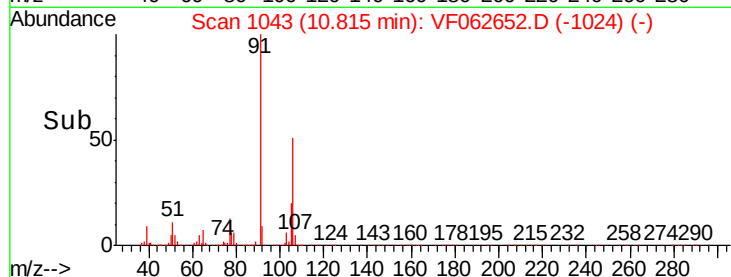
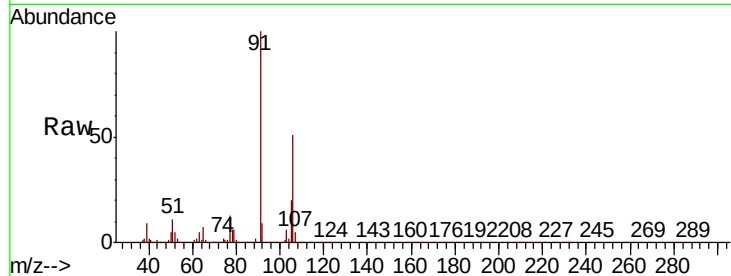




#69
o-Xylene
Concen: 56.404 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

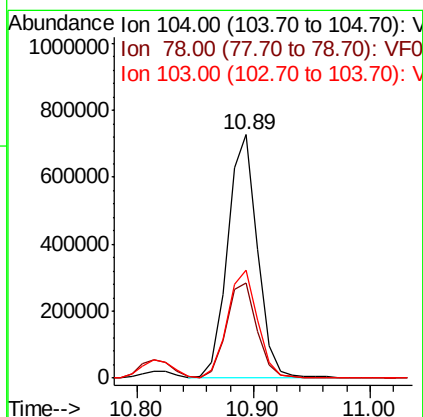
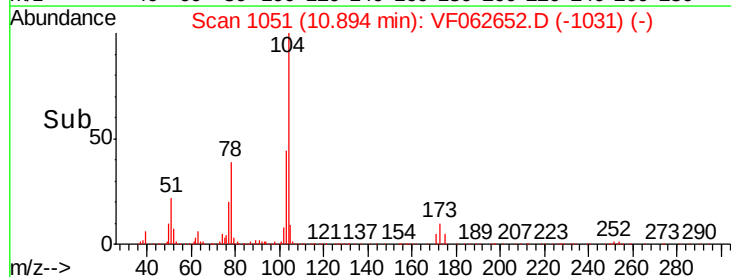
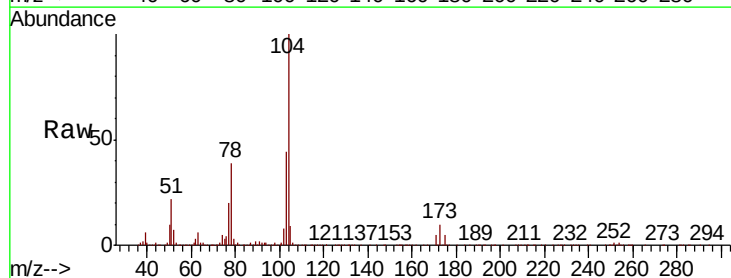
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

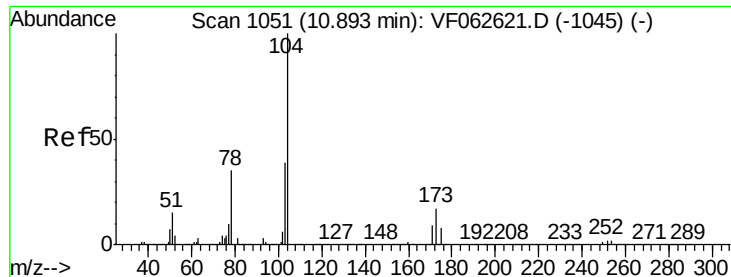
Tgt Ion:106 Resp: 874577
Ion Ratio Lower Upper
106 100
91 194.4 100.2 300.5



#70
Styrene
Concen: 54.564 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion:104 Resp: 1285960
Ion Ratio Lower Upper
104 100
78 38.9 31.9 47.9
103 44.4 36.1 54.1





#71

Bromoform

Concen: 63.717 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. -0.02 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

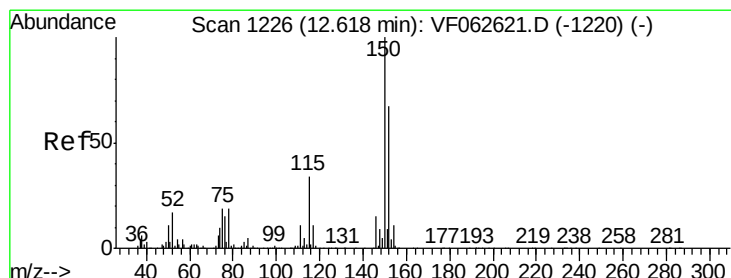
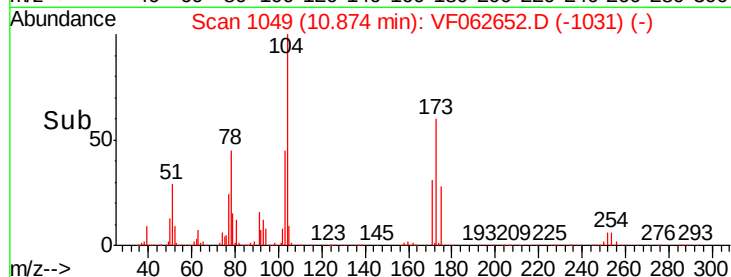
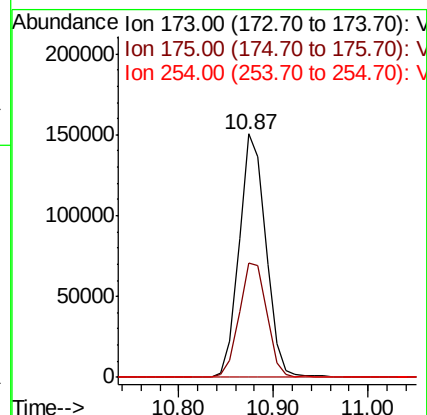
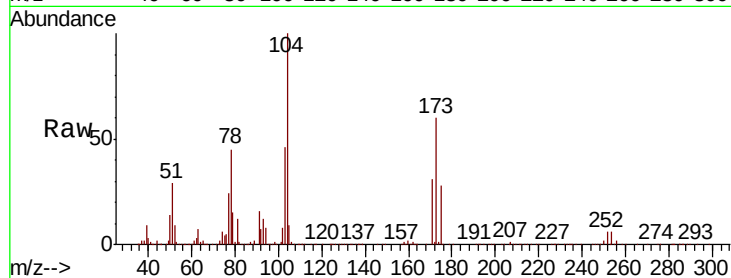
Tgt Ion:173 Resp: 295374

Ion Ratio Lower Upper

173 100

175 47.5 25.3 75.9

254 0.0 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

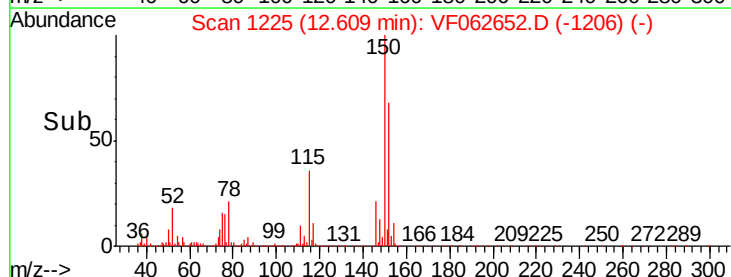
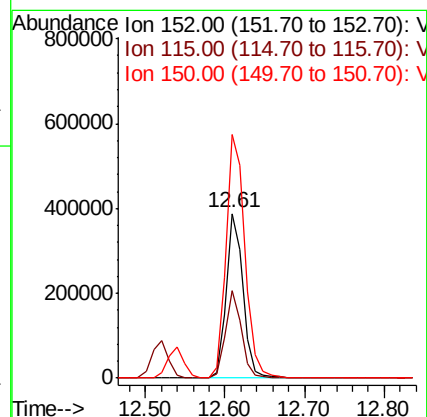
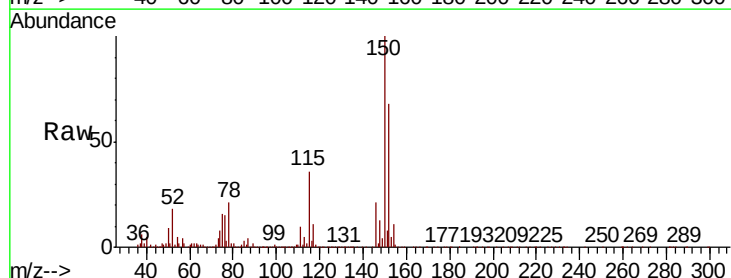
Tgt Ion:152 Resp: 581819

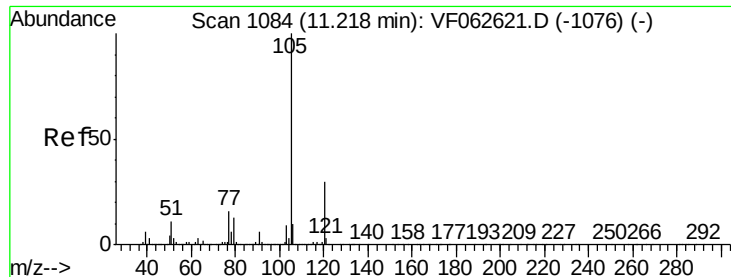
Ion Ratio Lower Upper

152 100

115 53.1 25.2 75.6

150 147.8 0.0 306.2





#73

Isopropylbenzene

Concen: 52.955 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

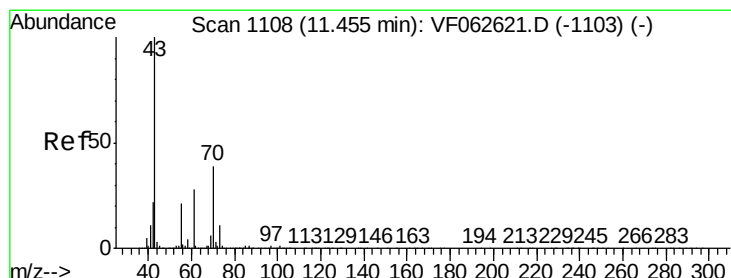
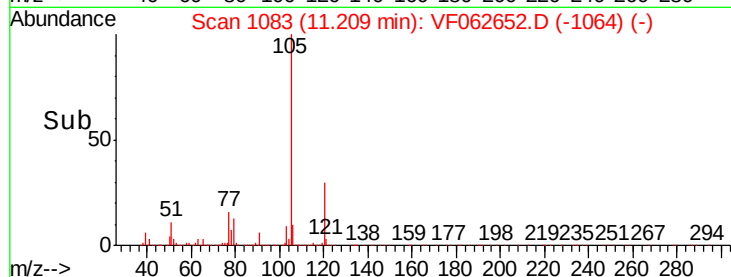
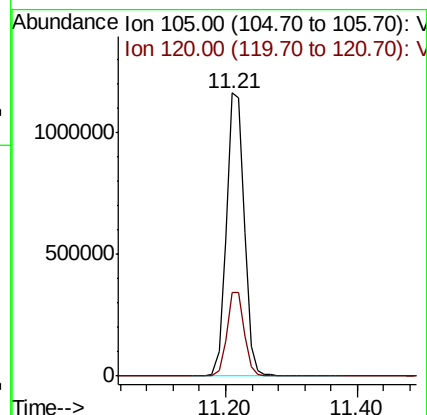
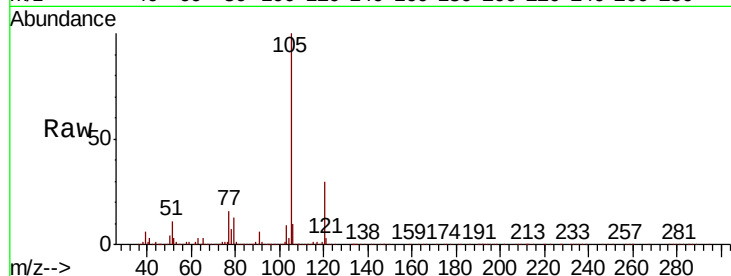
VSTDCCC050

Tgt Ion:105 Resp: 2208226

Ion Ratio Lower Upper

105 100

120 29.7 14.8 44.4



#74

N-amyl acetate

Concen: 60.008 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Tgt Ion: 43 Resp: 625230

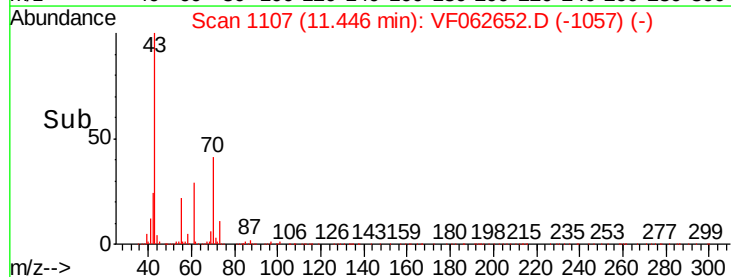
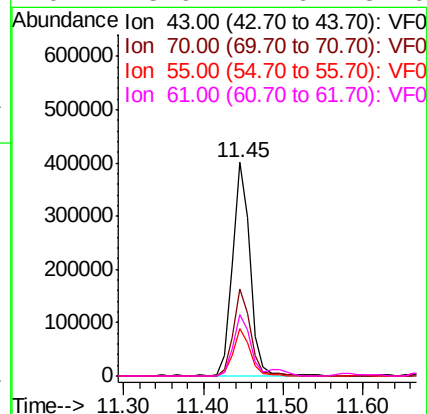
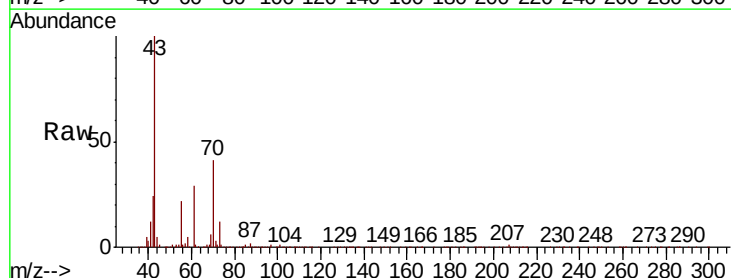
Ion Ratio Lower Upper

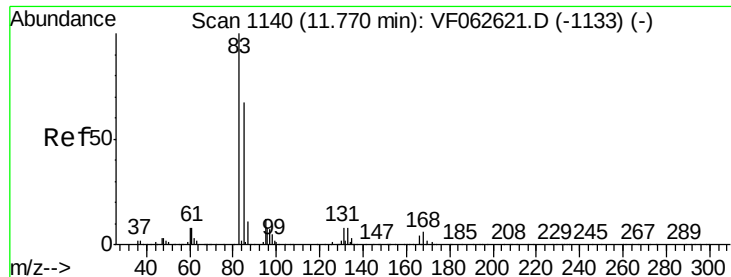
43 100

70 41.0 30.9 46.3

55 22.0 17.0 25.4

61 28.9 22.6 34.0





#75

1,1,2,2-Tetrachloroethane

Concen: 54.687 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

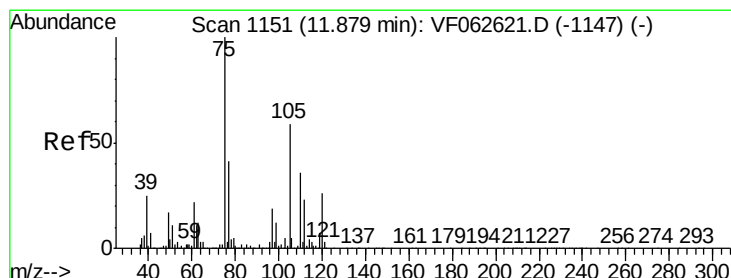
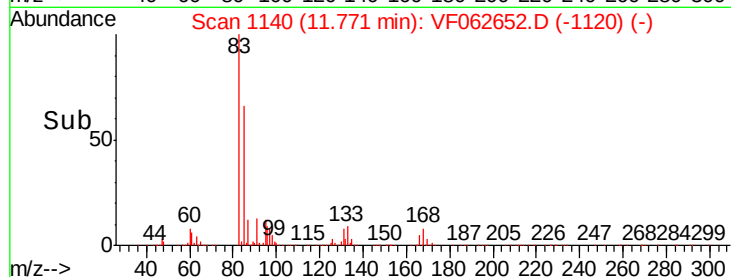
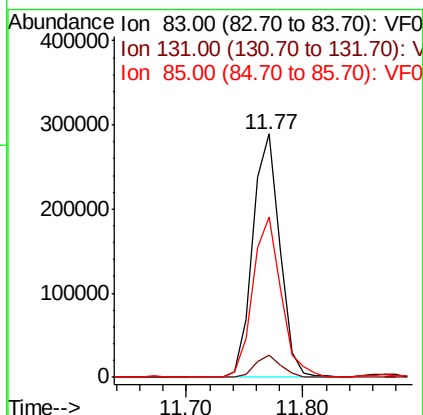
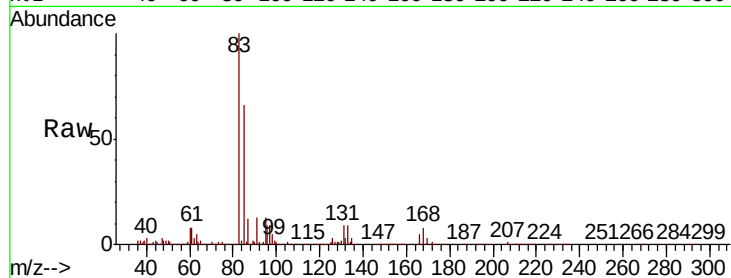
Tgt Ion: 83 Resp: 466042

Ion Ratio Lower Upper

83 100

131 9.0 4.0 12.0

85 65.7 33.5 100.5



#76

1,2,3-Trichloropropane

Concen: 54.394 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF062652.D

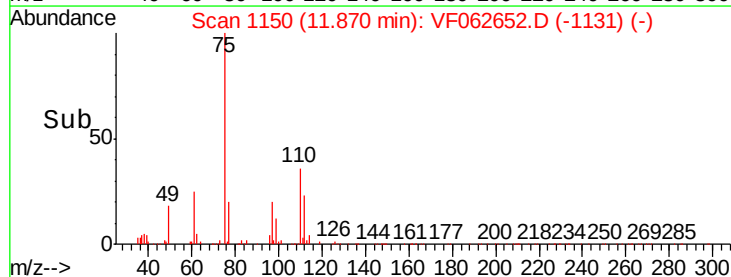
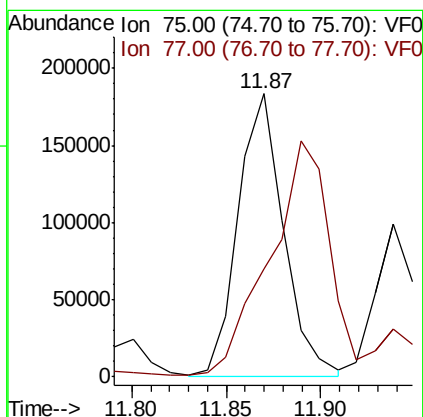
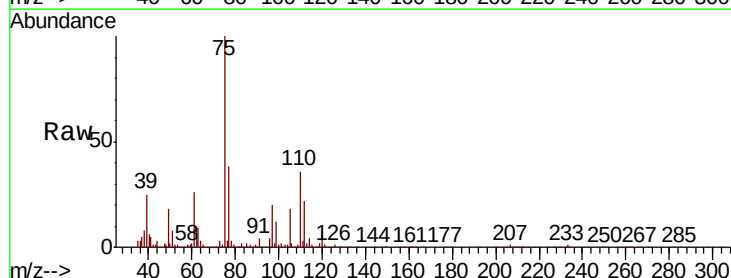
Acq: 20 May 2019 10:28

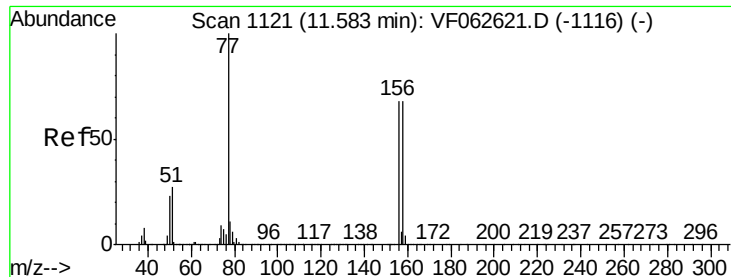
Tgt Ion: 75 Resp: 304579

Ion Ratio Lower Upper

75 100

77 38.0 20.6 61.8





#77

Bromobenzene

Concen: 55.900 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

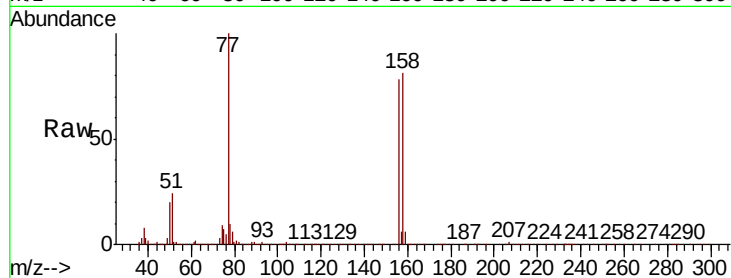
Tgt Ion:156 Resp: 579419

Ion Ratio Lower Upper

156 100

77 128.2 73.6 220.8

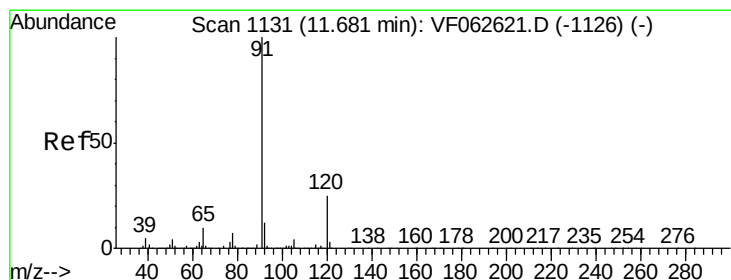
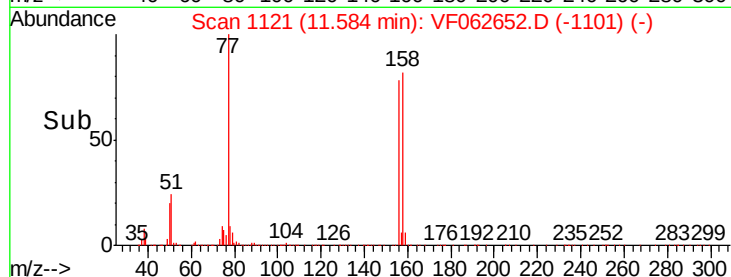
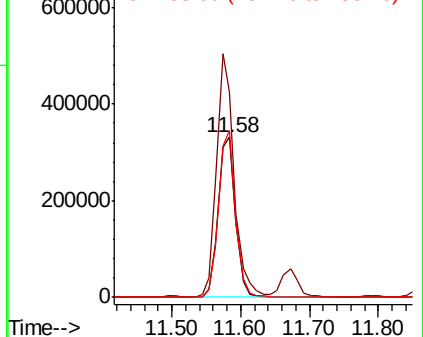
158 104.4 49.6 148.8



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: 50.574 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062652.D

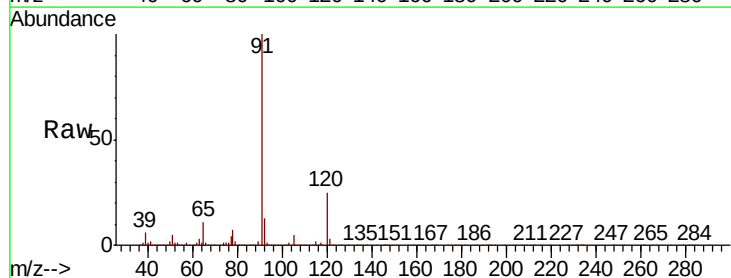
Acq: 20 May 2019 10:28

Tgt Ion: 91 Resp: 2495842

Ion Ratio Lower Upper

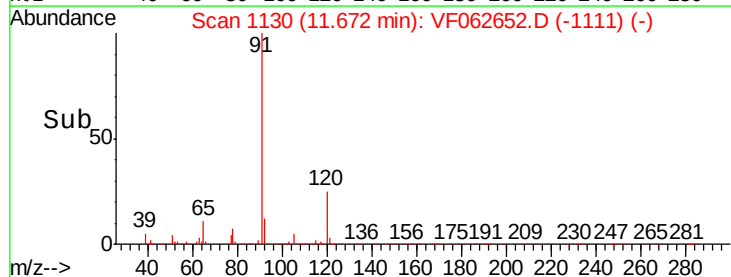
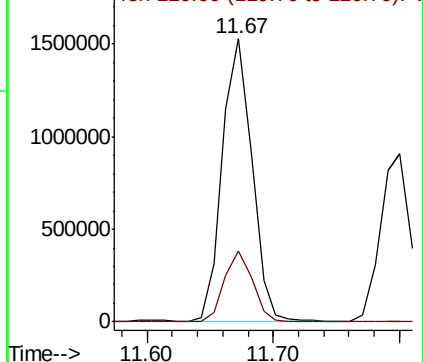
91 100

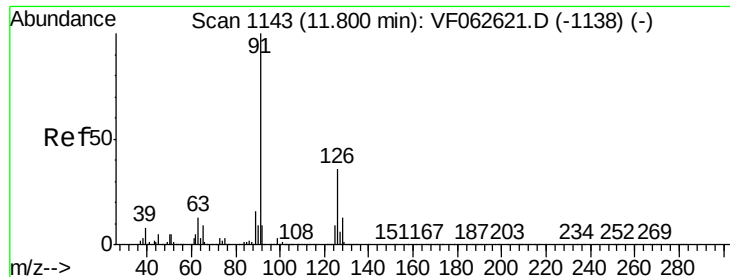
120 25.2 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 54.070 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

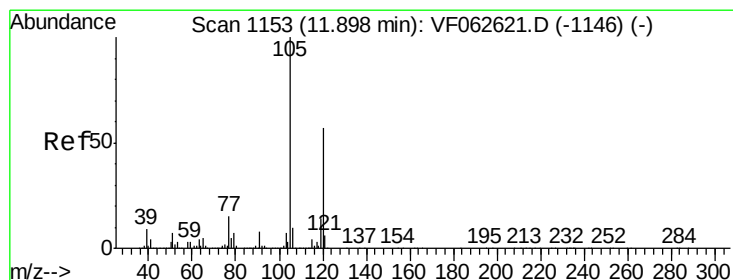
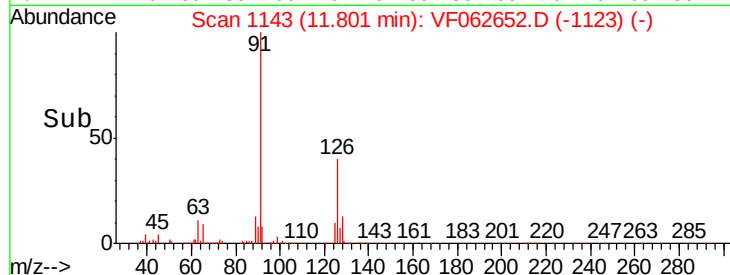
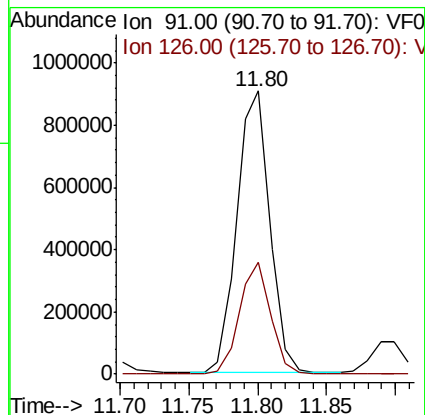
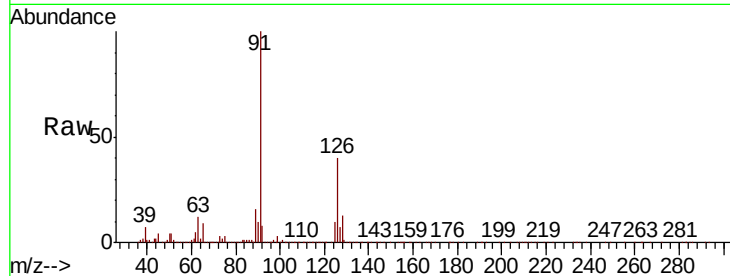
VSTDCCC050

Tgt Ion: 91 Resp: 1503798

Ion Ratio Lower Upper

91 100

126 39.6 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 52.458 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062652.D

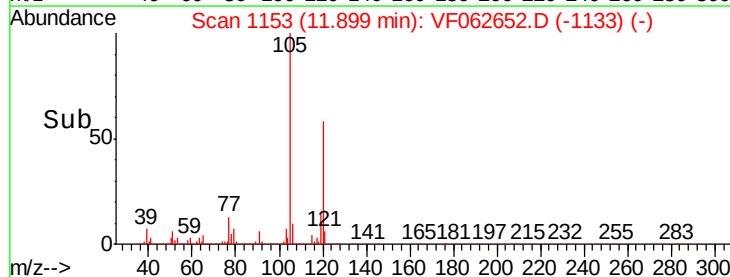
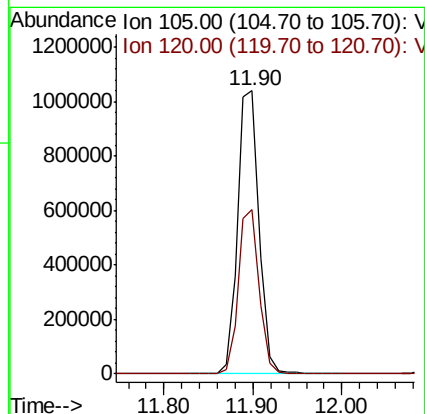
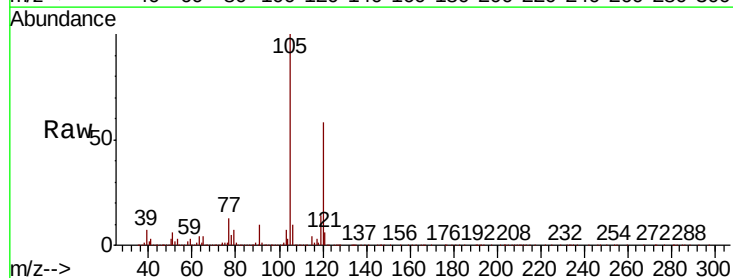
Acq: 20 May 2019 10:28

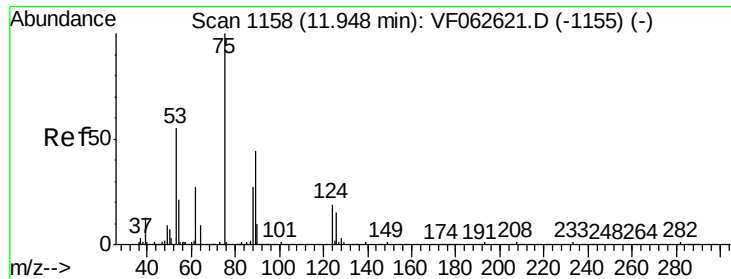
Tgt Ion: 105 Resp: 1754031

Ion Ratio Lower Upper

105 100

120 58.2 28.7 86.3





#81

trans-1,4-Dichloro-2-butene

Concen: 73.491 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

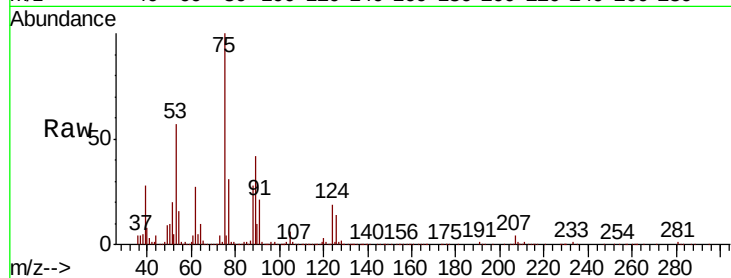
Tgt Ion: 75 Resp: 182918

Ion Ratio Lower Upper

75 100

53 56.6 46.9 70.3

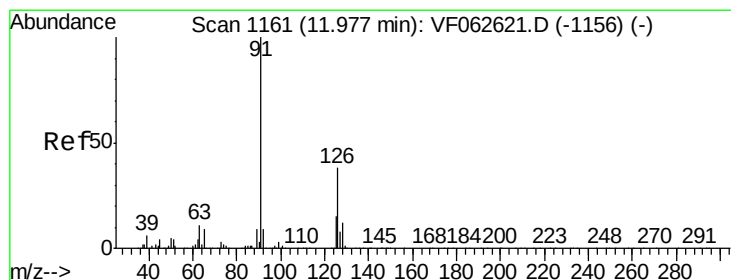
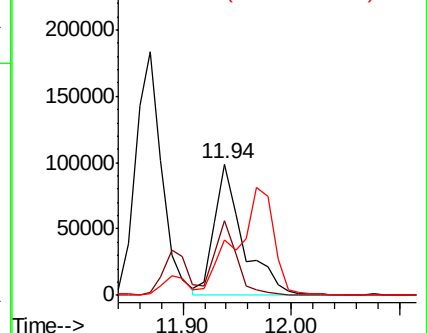
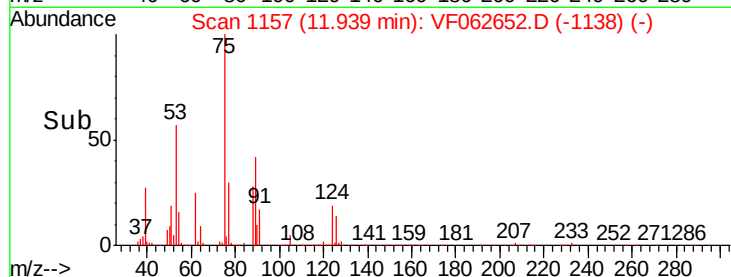
89 42.3 36.4 54.6



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: 52.034 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. -0.01 min

Lab File: VF062652.D

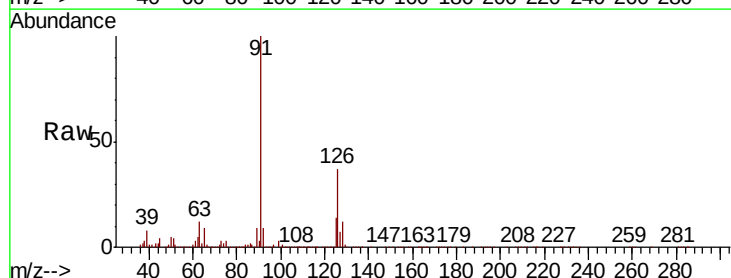
Acq: 20 May 2019 10:28

Tgt Ion: 91 Resp: 1427112

Ion Ratio Lower Upper

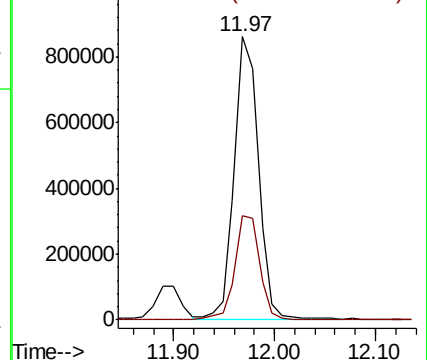
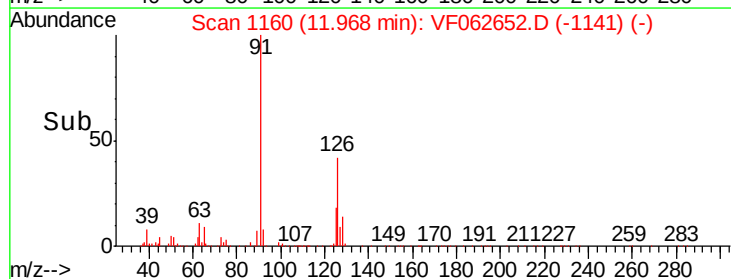
91 100

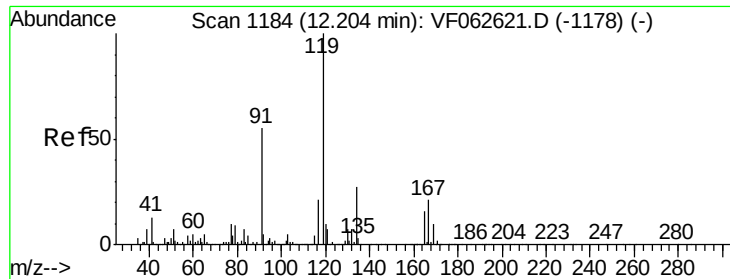
126 36.8 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

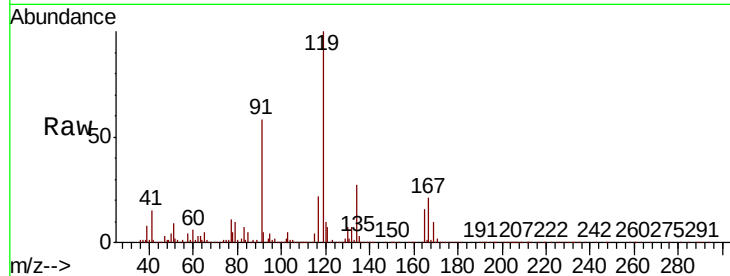




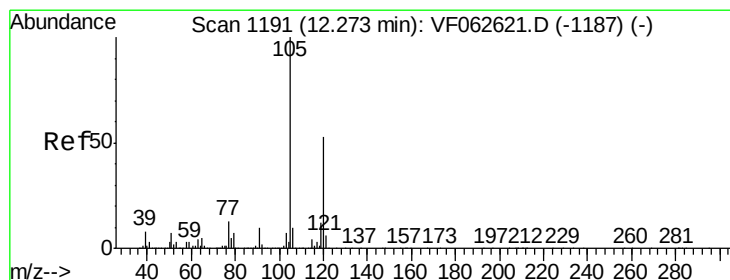
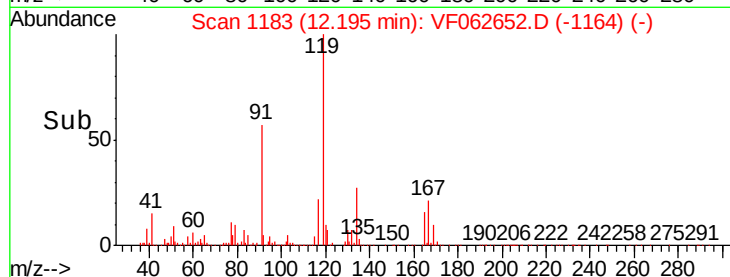
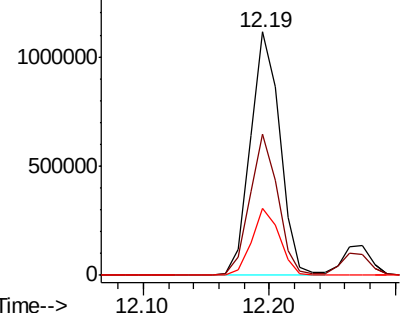
#83
 tert-Butylbenzene
 Concen: 53.518 ug/l
 RT: 12.19 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion:119 Resp: 1815521
 Ion Ratio Lower Upper
 119 100
 91 58.1 27.3 81.9
 134 27.5 13.6 40.7

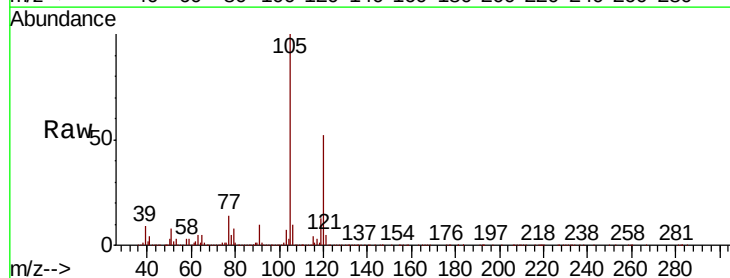


Abundance Ion 119.00 (118.70 to 119.70): V
 1500000 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

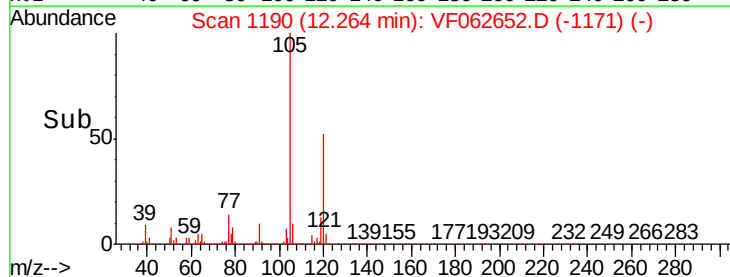
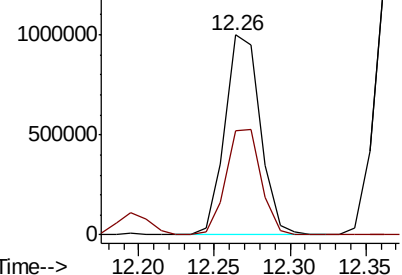


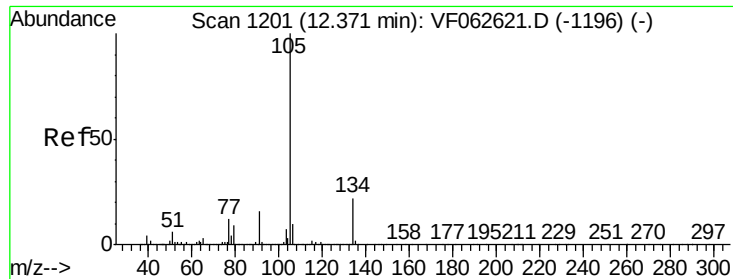
#84
 1,2,4-Trimethylbenzene
 Concen: 50.256 ug/l
 RT: 12.26 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion:105 Resp: 1626392
 Ion Ratio Lower Upper
 105 100
 120 52.2 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V
 1500000 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 50.037 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

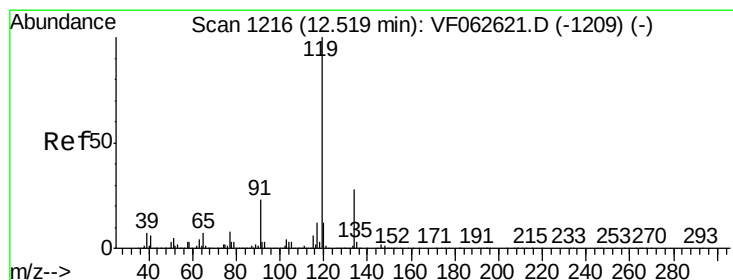
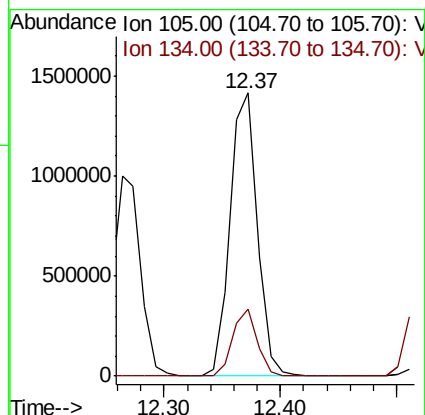
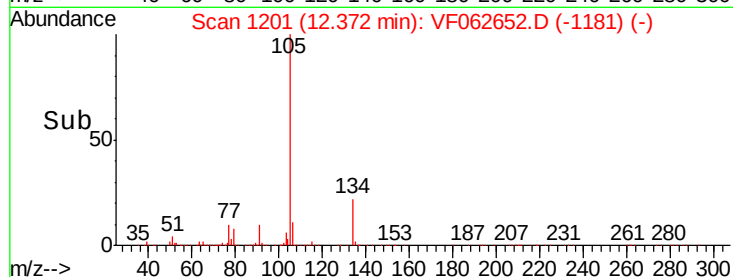
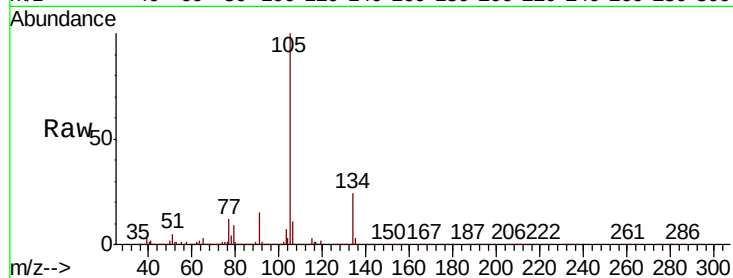
VSTDCCC050

Tgt Ion:105 Resp: 2277968

Ion Ratio Lower Upper

105 100

134 23.6 10.8 32.4



#86

p-Isopropyltoluene

Concen: 51.442 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

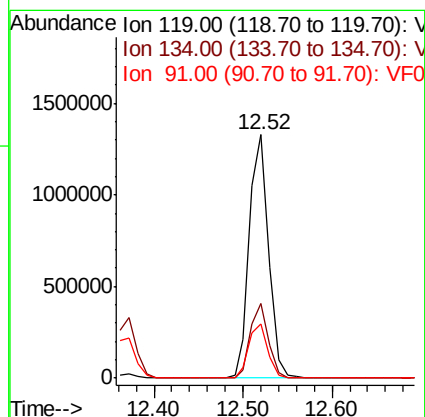
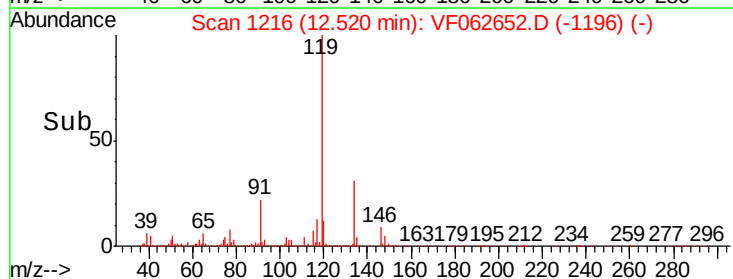
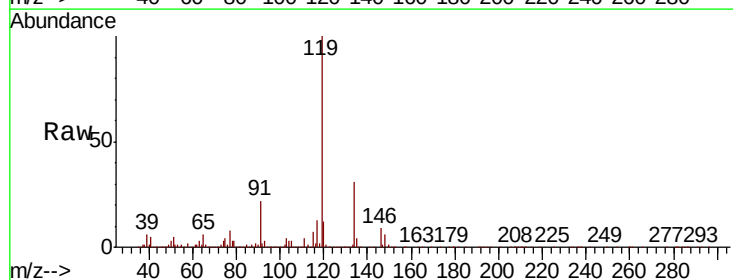
Tgt Ion:119 Resp: 1973680

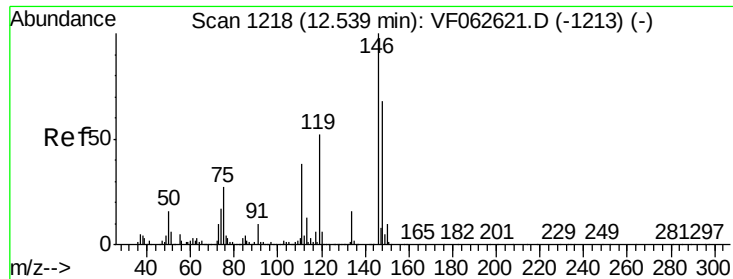
Ion Ratio Lower Upper

119 100

134 30.7 14.1 42.3

91 22.2 11.4 34.2

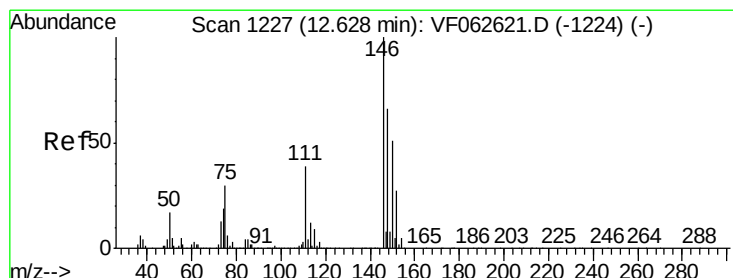
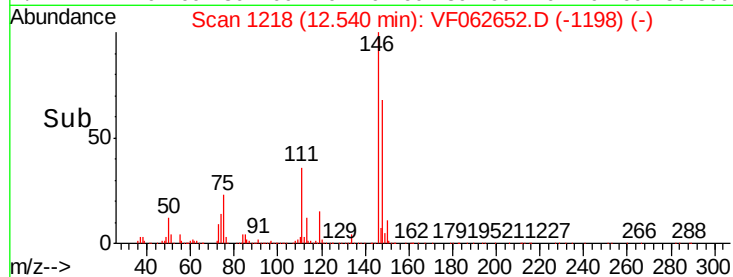
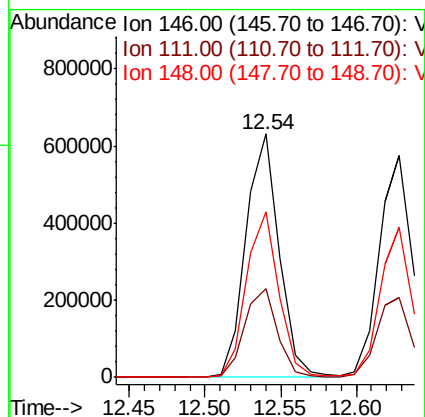
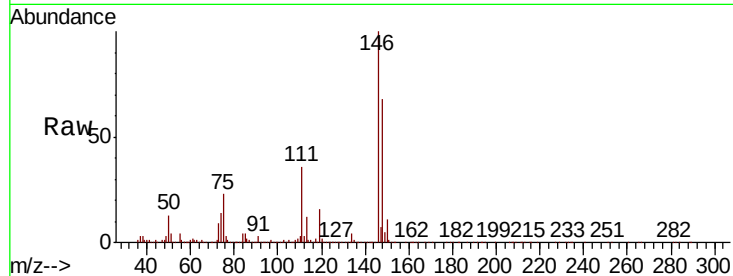




#87
 1,3-Dichlorobenzene
 Concen: 51.421 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

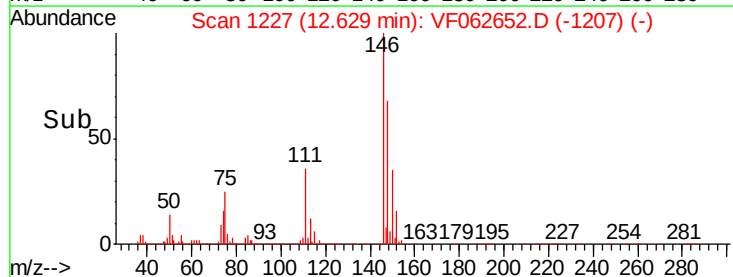
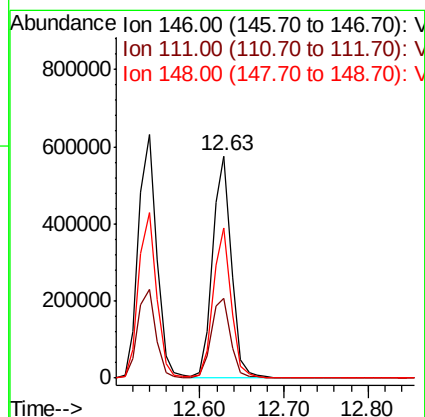
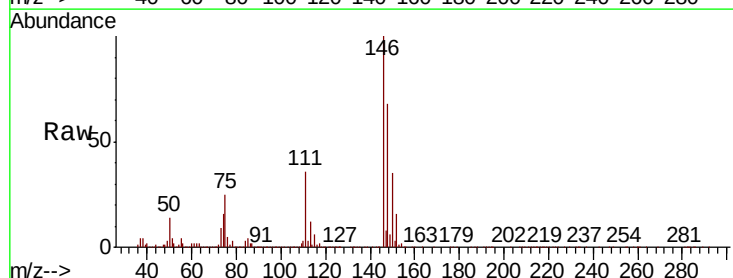
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

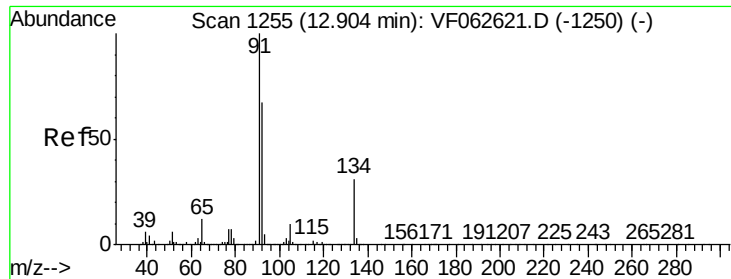
Tgt Ion:146 Resp: 964291
 Ion Ratio Lower Upper
 146 100
 111 36.5 18.9 56.9
 148 67.8 34.0 101.8



#88
 1,4-Dichlorobenzene
 Concen: 50.560 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion:146 Resp: 889776
 Ion Ratio Lower Upper
 146 100
 111 35.8 19.4 58.2
 148 67.8 33.2 99.6

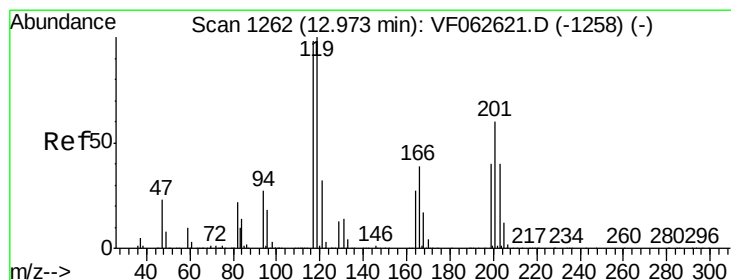
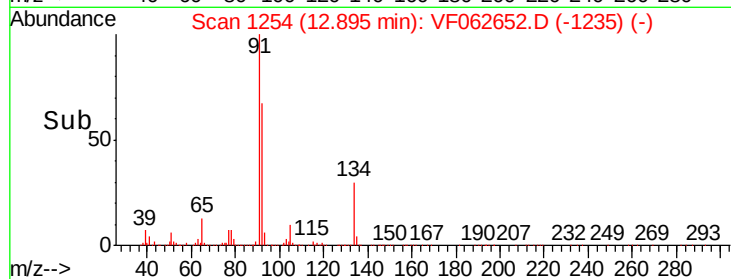
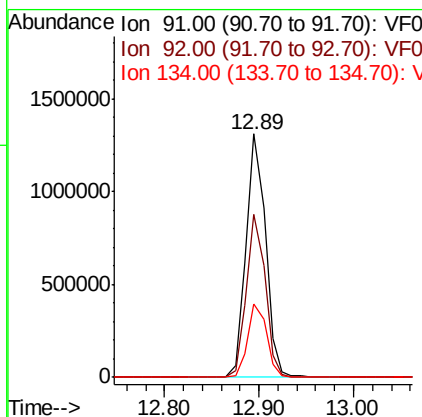
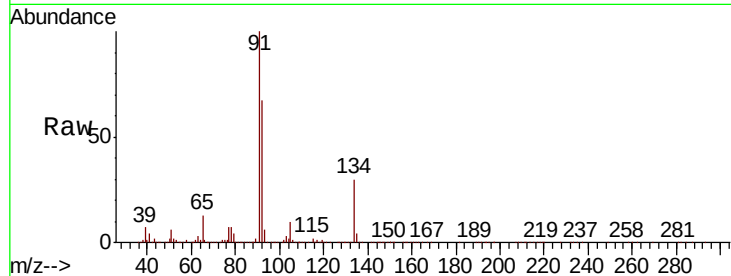




#89
n-Butylbenzene
Concen: 49.482 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

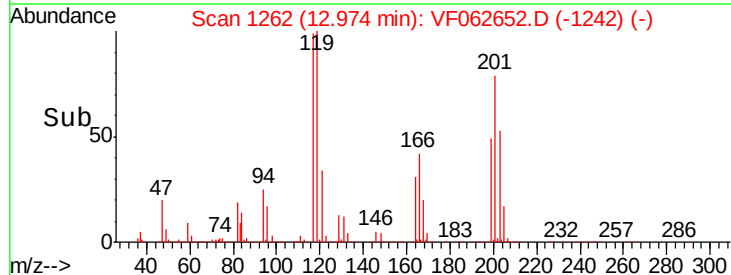
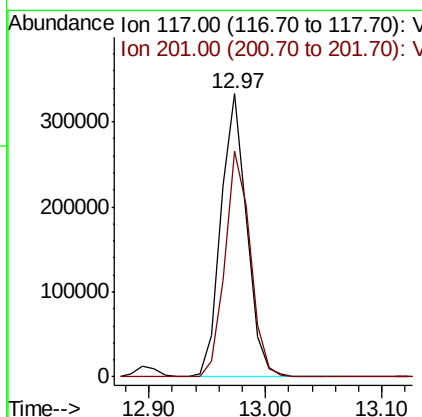
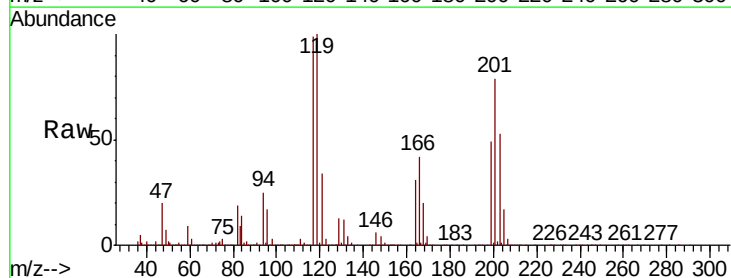
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

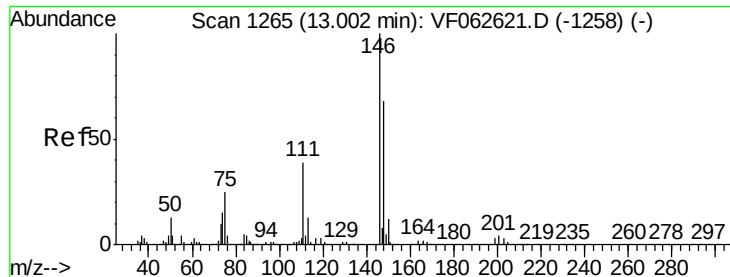
Tgt Ion: 91 Resp: 1871800
Ion Ratio Lower Upper
91 100
92 66.7 33.3 99.8
134 29.9 15.4 46.4



#90
Hexachloroethane
Concen: 55.437 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VF062652.D
Acq: 20 May 2019 10:28

Tgt Ion: 117 Resp: 510228
Ion Ratio Lower Upper
117 100
201 81.6 30.7 92.1





#91

1,2-Dichlorobenzene

Concen: 51.652 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

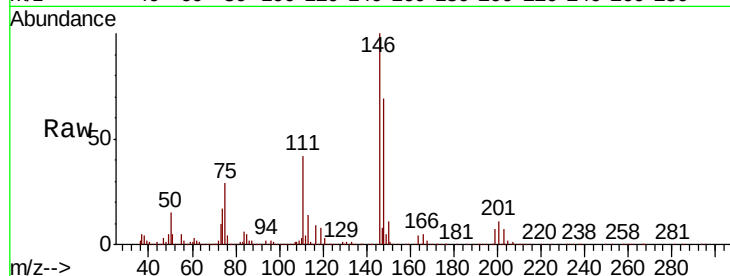
Tgt Ion:146 Resp: 863438

Ion Ratio Lower Upper

146 100

111 42.2 19.8 59.3

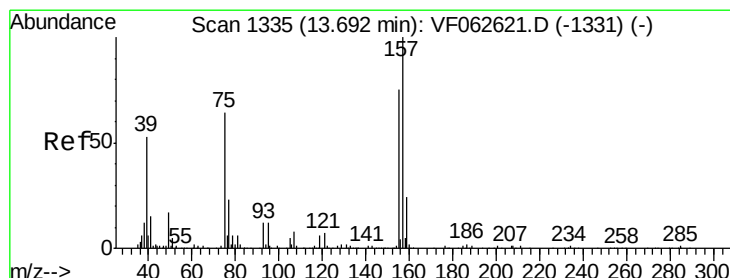
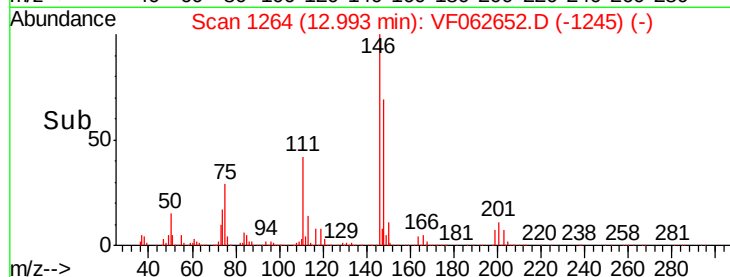
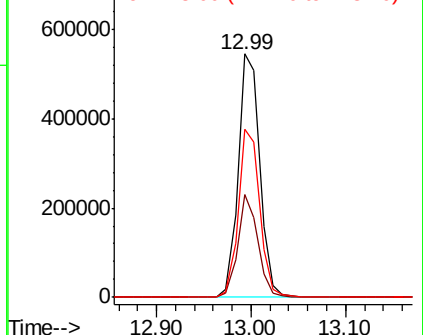
148 69.1 34.1 102.2



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: 61.463 ug/l

RT: 13.68 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

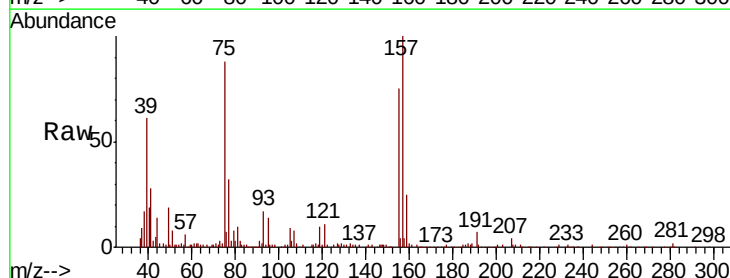
Tgt Ion: 75 Resp: 62486

Ion Ratio Lower Upper

75 100

155 85.3 58.1 174.3

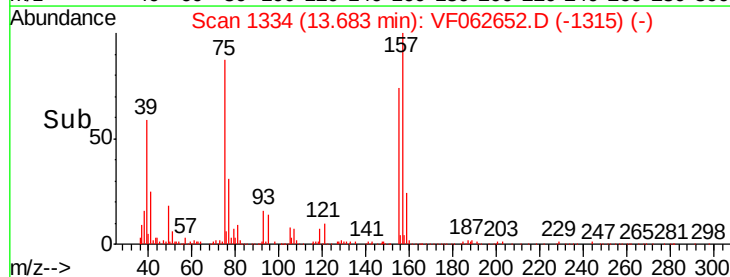
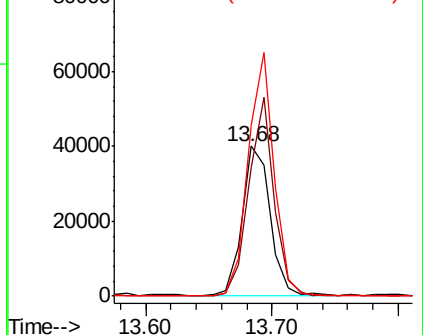
157 114.1 77.8 233.4

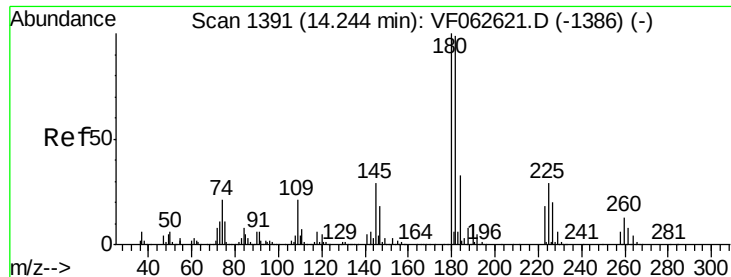


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

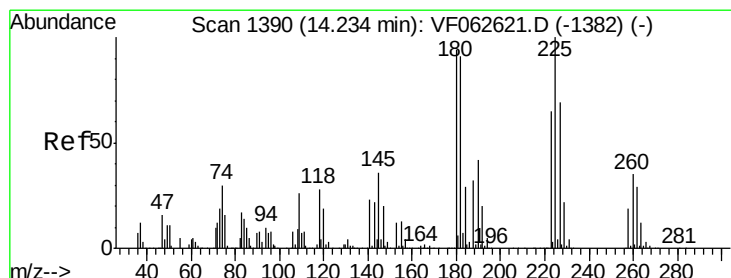
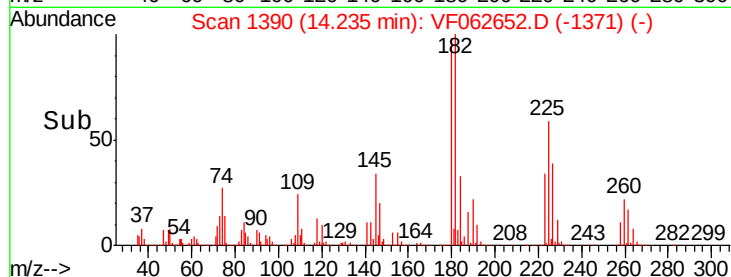
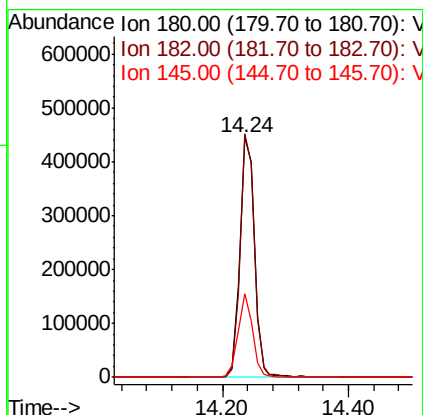
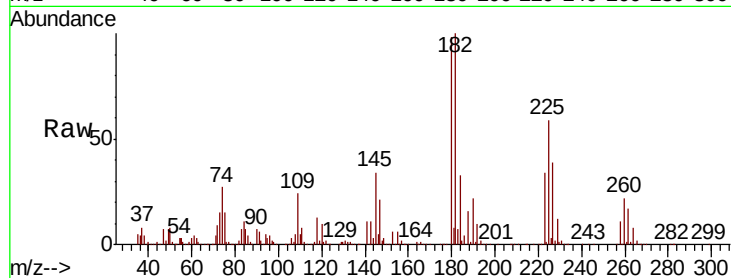




#93
 1,2,4-Trichlorobenzene
 Concen: 58.638 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

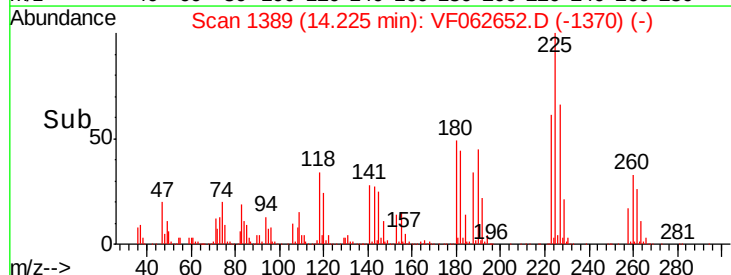
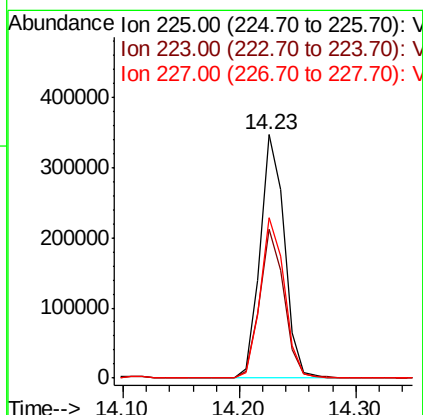
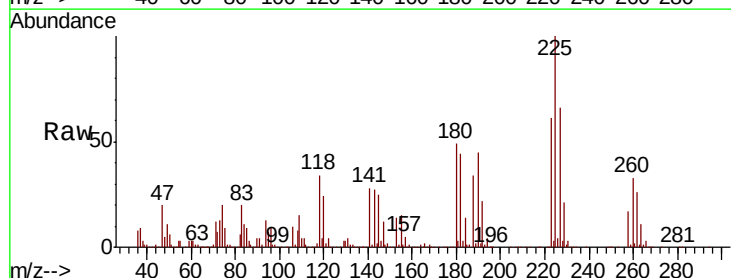
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

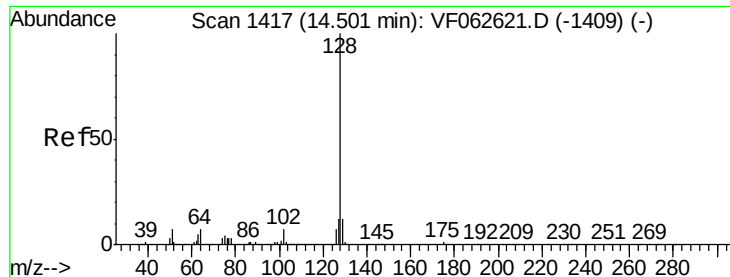
Tgt Ion:180 Resp: 701634
 Ion Ratio Lower Upper
 180 100
 182 101.6 49.7 149.1
 145 34.9 14.6 44.0



#94
 Hexachlorobutadiene
 Concen: 59.843 ug/l
 RT: 14.23 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VF062652.D
 Acq: 20 May 2019 10:28

Tgt Ion:225 Resp: 499706
 Ion Ratio Lower Upper
 225 100
 223 60.9 32.5 97.4
 227 66.1 34.5 103.5





#95

Naphthalene

Concen: 55.658 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

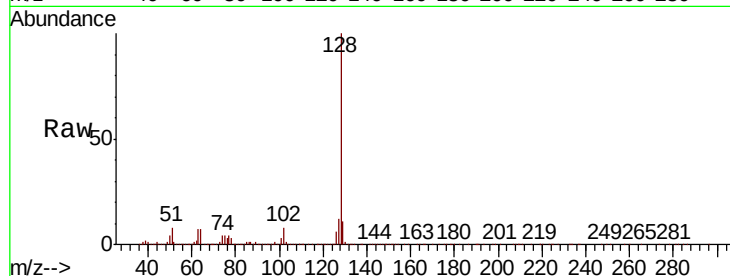
Tgt Ion:128 Resp: 1209882

Ion Ratio Lower Upper

128 100

127 11.6 9.7 14.5

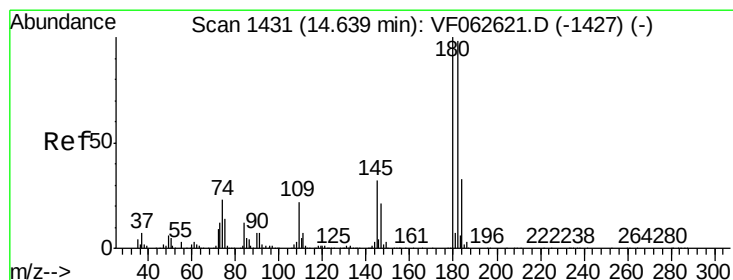
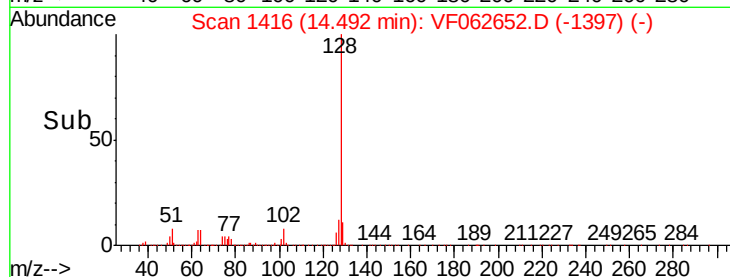
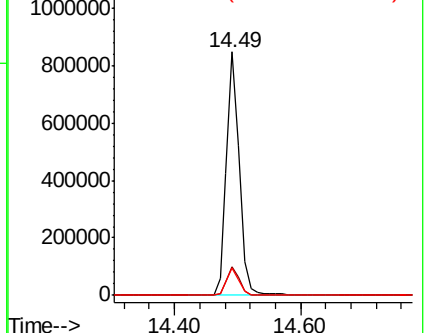
129 11.1 9.3 13.9



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: 59.306 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VF062652.D

Acq: 20 May 2019 10:28

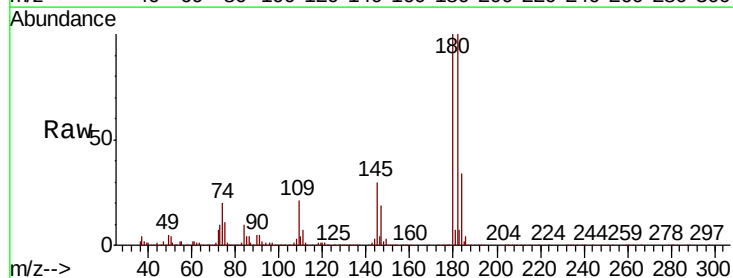
Tgt Ion:180 Resp: 672160

Ion Ratio Lower Upper

180 100

182 100.3 48.9 146.7

145 30.1 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

