

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050619\
 Data File : VF062342.D
 Acq On : 6 May 2019 18:12
 Operator : FY/SY
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Quant Time: May 07 03:49:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 03:35:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	349525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	438980	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	383756	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	236712	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	30037	7.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	15.42%	
35) Dibromofluoromethane	4.31	113	37404	8.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	17.72%	
50) Toluene-d8	7.70	98	83855	8.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	16.38%	
62) 4-Bromofluorobenzene	11.50	95	41566	9.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	19.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	45530	9.263	ug/l	96
3) Chloromethane	1.16	50	28789	7.450	ug/l #	87
4) Vinyl Chloride	1.20	62	29231	7.807	ug/l	100
5) Bromomethane	1.39	94	23463	8.608	ug/l	98
6) Chloroethane	1.43	64	15487	8.872	ug/l	98
7) Trichlorofluoromethane	1.57	101	57156	8.633	ug/l	95
8) Diethyl Ether	1.71	74	8818	7.985	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.91	101	31904	7.991	ug/l	92
10) Methyl Iodide	1.97	142	54627	7.967	ug/l	99
11) Tert butyl alcohol	2.70	59	9756	45.356	ug/l #	84
12) 1,1-Dichloroethene	1.88	96	28526	8.160	ug/l #	78
13) Acrolein	2.10	56	7212	44.613	ug/l #	74
14) Allyl chloride	2.20	41	26378	7.420	ug/l	97
15) Acrylonitrile	3.09	53	18975	35.031	ug/l	98
16) Acetone	2.35	43	33273	41.270	ug/l #	90
17) Carbon Disulfide	1.92	76	61638	7.048	ug/l	95
18) Methyl Acetate	2.47	43	13649	8.423	ug/l	93
19) Methyl tert-butyl Ether	2.55	73	58995	8.558	ug/l	98
20) Methylene Chloride	2.34	84	26390	6.751	ug/l	88
21) trans-1,2-Dichloroethene	2.42	96	28045	8.199	ug/l	92
22) Diisopropyl ether	2.94	45	76153	7.356	ug/l	96
23) Vinyl Acetate	3.34	43	179626	38.806	ug/l	99
24) 1,1-Dichloroethane	3.01	63	49656	8.273	ug/l	96
25) 2-Butanone	4.52	43	44031	37.194	ug/l	93
26) 2,2-Dichloropropane	3.77	77	29573	9.426	ug/l	94
27) cis-1,2-Dichloroethene	3.64	96	35345	8.047	ug/l	98
28) Bromochloromethane	3.90	49	20502	7.746	ug/l	98
29) Tetrahydrofuran	4.27	42	23583	45.671	ug/l	90
30) Chloroform	4.05	83	65698	8.491	ug/l	99
31) Cyclohexane	3.88	56	40564	7.545	ug/l	89
32) 1,1,1-Trichloroethane	4.29	97	62225	10.951	ug/l	95
36) 1,1-Dichloropropene	4.47	75	44831	9.194	ug/l	98
37) Ethyl Acetate	4.30	43	21569	10.561	ug/l #	73
38) Carbon Tetrachloride	4.18	117	56049m	11.188	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	43125	7.843	ug/l #	84
40) Benzene	4.82	78	95766	8.438	ug/l	95
41) Methacrylonitrile	4.94	41	11534	10.204	ug/l #	63
42) 1,2-Dichloroethane	5.12	62	40533	10.115	ug/l	95
43) Isopropyl Acetate	7.11	43	21144	9.617	ug/l #	99
44) Trichloroethene	5.68	130	34917	8.832	ug/l	92
45) 1,2-Dichloropropane	6.40	63	20989	8.097	ug/l	96
46) Dibromomethane	6.25	93	16855	8.625	ug/l	97
47) Bromodichloromethane	6.56	83	44785	9.532	ug/l	88
48) Methyl methacrylate	6.87	41	13367	8.661	ug/l #	74
49) 1,4-Dioxane	6.89	88	2776	162.237	ug/l #	82
51) 4-Methyl-2-Pentanone	8.40	43	75481	46.095	ug/l	99
52) Toluene	7.77	92	60479	9.056	ug/l	97
53) t-1,3-Dichloropropene	8.42	75	34065	9.810	ug/l	95
54) cis-1,3-Dichloropropene	7.46	75	40977	9.458	ug/l	86
55) 1,1,2-Trichloroethane	8.63	97	18504	9.275	ug/l	87
56) Ethyl methacrylate	8.75	69	19081	8.873	ug/l	97
57) 1,3-Dichloropropane	8.99	76	28272	9.242	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.45	63	31565	49.555	ug/l	99
59) 2-Hexanone	9.62	43	52875	46.785	ug/l	98
60) Dibromochloromethane	8.85	129	30729	9.415	ug/l	96
61) 1,2-Dibromoethane	9.13	107	21521	9.241	ug/l	97
64) Tetrachloroethene	8.30	164	34969	9.011	ug/l	88
65) Chlorobenzene	9.93	112	69841	8.345	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.06	131	34961	8.652	ug/l	97
67) Ethyl Benzene	10.03	91	130351	8.974	ug/l	97
68) m/p-Xylenes	10.25	106	97156	18.202	ug/l	99
69) o-Xylene	10.82	106	49344	8.259	ug/l	91
70) Styrene	10.89	104	76208	8.795	ug/l	99
71) Bromoform	10.88	173	18281	8.101	ug/l #	96
73) Isopropylbenzene	11.21	105	153988	8.027	ug/l	100
74) N-amyl acetate	11.45	43	33502	7.925	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.76	83	23947	7.915	ug/l	95
76) 1,2,3-Trichloropropane	11.86	75	17356	7.874	ug/l #	100
77) Bromobenzene	11.58	156	40083	8.263	ug/l	99
78) n-propylbenzene	11.66	91	169017	8.460	ug/l	99
79) 2-Chlorotoluene	11.79	91	103578	8.436	ug/l	98
80) 1,3,5-Trimethylbenzene	11.89	105	140595	8.707	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	6265m	6.890	ug/l	
82) 4-Chlorotoluene	11.97	91	98560	8.171	ug/l	99
83) tert-Butylbenzene	12.20	119	143336	8.504	ug/l	100
84) 1,2,4-Trimethylbenzene	12.27	105	134865	8.517	ug/l	100
85) sec-Butylbenzene	12.36	105	171351	8.257	ug/l	99
86) p-Isopropyltoluene	12.51	119	165915	8.856	ug/l	99
87) 1,3-Dichlorobenzene	12.53	146	78745	9.225	ug/l	98
88) 1,4-Dichlorobenzene	12.62	146	73942	8.958	ug/l	97
89) n-Butylbenzene	12.90	91	151014	8.980	ug/l	95
90) Hexachloroethane	12.97	117	39607	8.321	ug/l	93
91) 1,2-Dichlorobenzene	12.99	146	75405	9.148	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.68	75	5351	8.472	ug/l	91

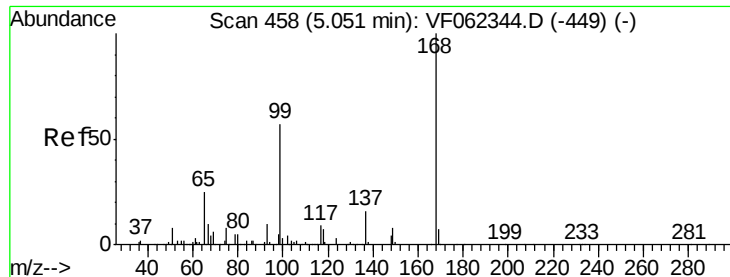
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF050619\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	67924	9.272	ug/l	97
94) Hexachlorobutadiene	14.23	225	48321	9.017	ug/l	99
95) Naphthalene	14.49	128	93368	8.180	ug/l	98
96) 1,2,3-Trichlorobenzene	14.63	180	63905	9.081	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

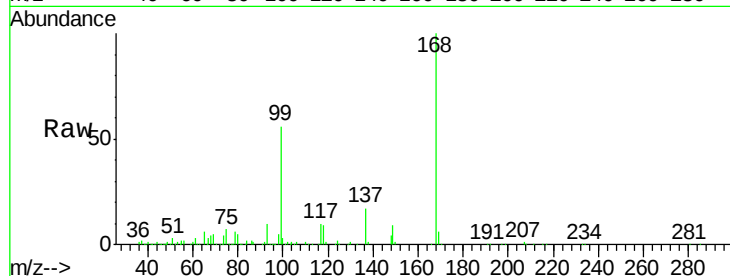
VSTDIC010

Tot Ion:168 Resp: 349525

Ion Ratio Lower Upper

168 100

99 56.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

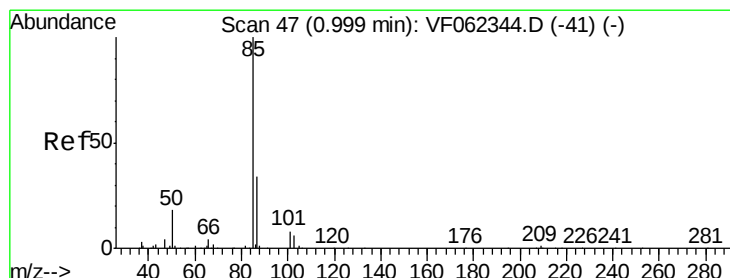
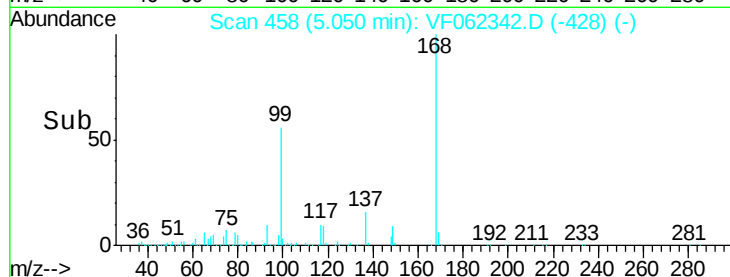
100000

50000

0

Time-->

5.00 5.20



#2

Dichlorodifluoromethane

Concen: 9.263 ug/l

RT: 1.00 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF062342.D

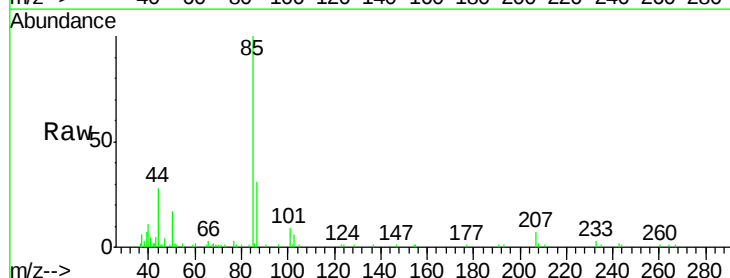
Acq: 6 May 2019 18:12

Tgt Ion: 85 Resp: 45530

Ion Ratio Lower Upper

85 100

87 31.1 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

15000

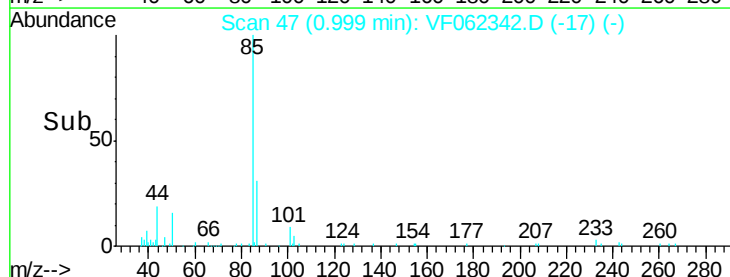
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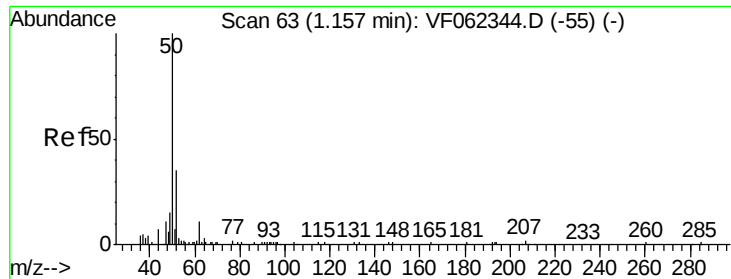
5000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 7.450 ug/l

RT: 1.16 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

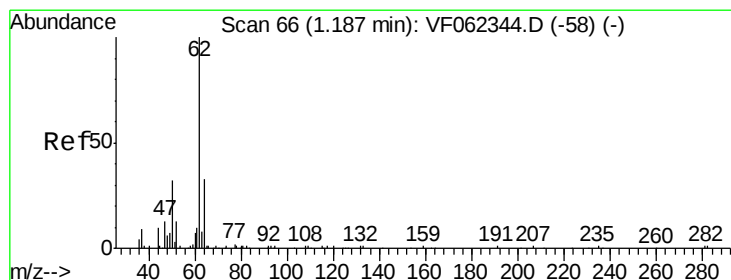
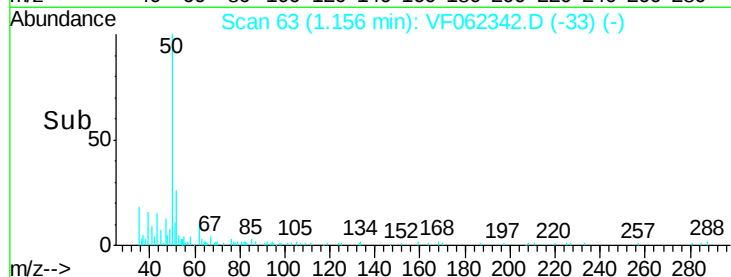
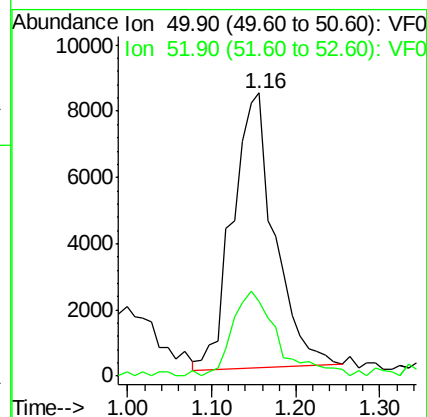
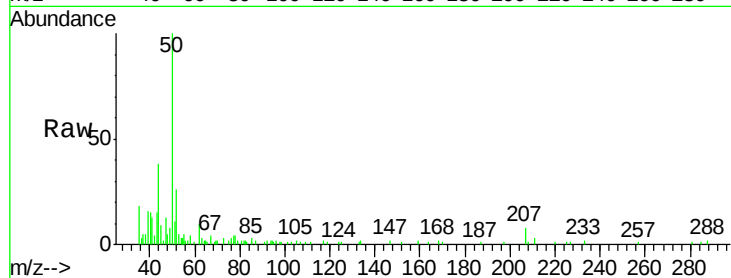
VSTDIC010

Tot Ion: 50 Resp: 28789

Ion Ratio Lower Upper

50 100

52 25.2 26.1 39.1#



#4

Vinyl Chloride

Concen: 7.807 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062342.D

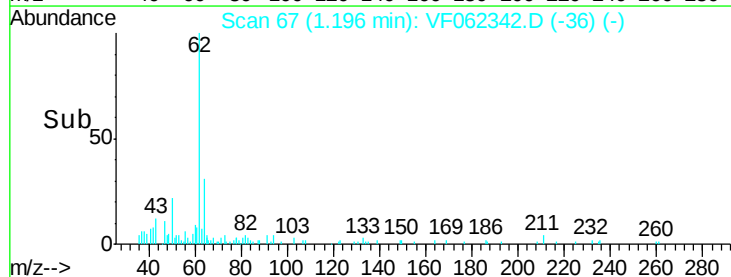
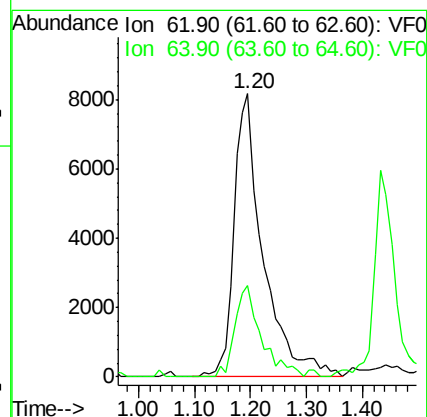
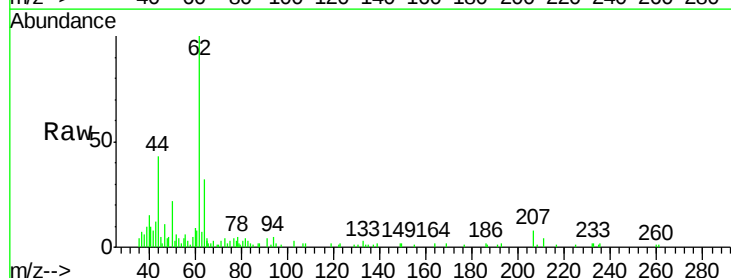
Acq: 6 May 2019 18:12

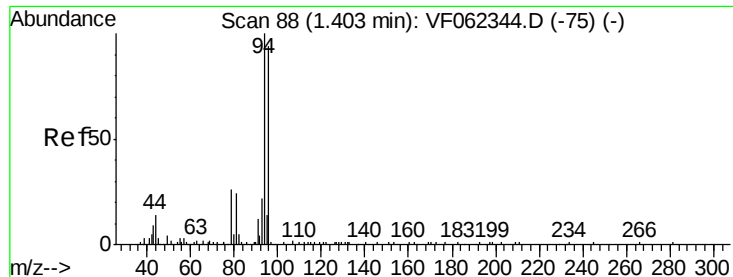
Tgt Ion: 62 Resp: 29231

Ion Ratio Lower Upper

62 100

64 32.4 26.1 39.1





#5

Bromomethane

Concen: 8.608 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

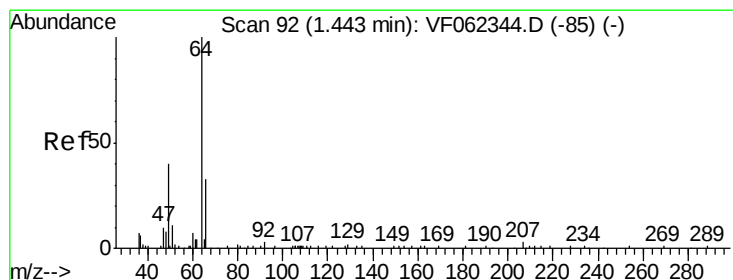
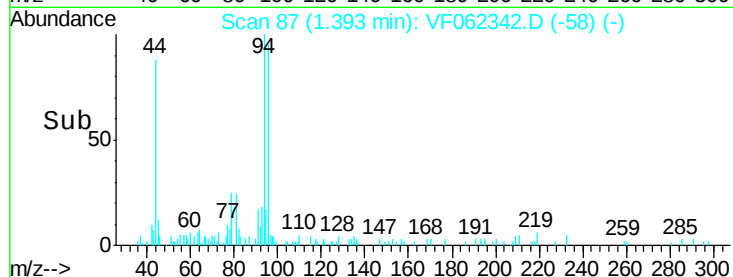
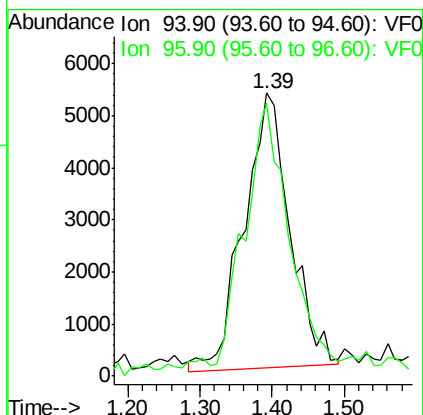
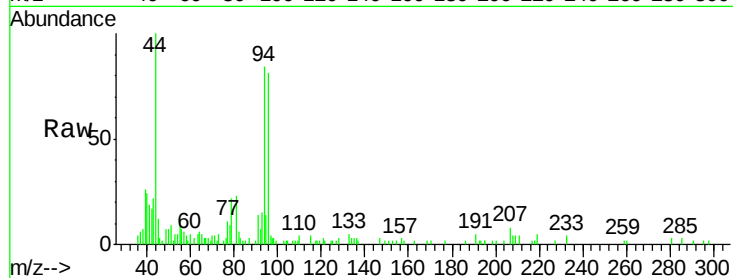
VSTDIC010

Tot Ion: 94 Resp: 23463

Ion Ratio Lower Upper

94 100

96 96.3 75.4 113.2



#6

Chloroethane

Concen: 8.872 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF062342.D

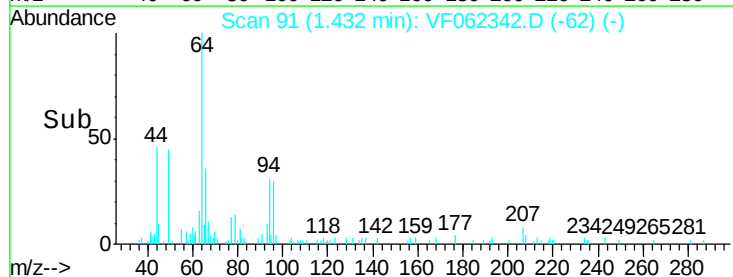
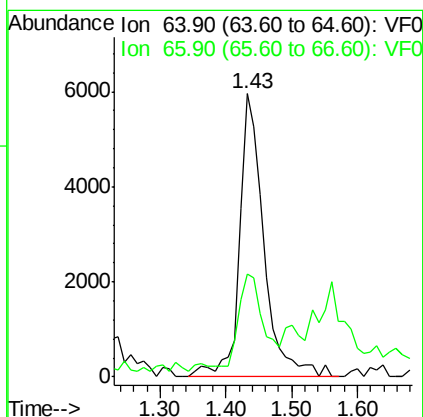
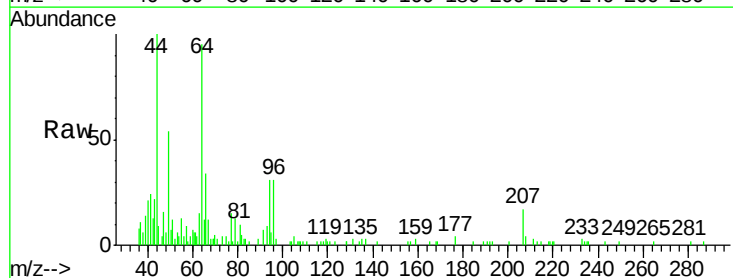
Acq: 6 May 2019 18:12

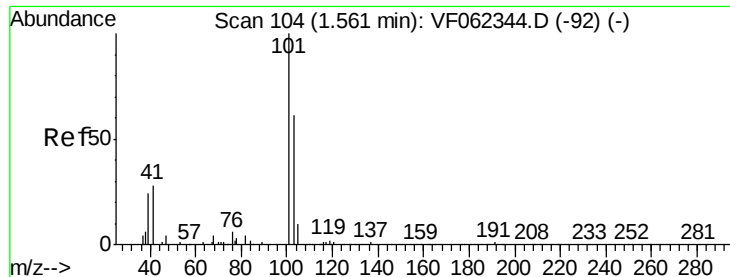
Tgt Ion: 64 Resp: 15487

Ion Ratio Lower Upper

64 100

66 34.3 26.6 39.8



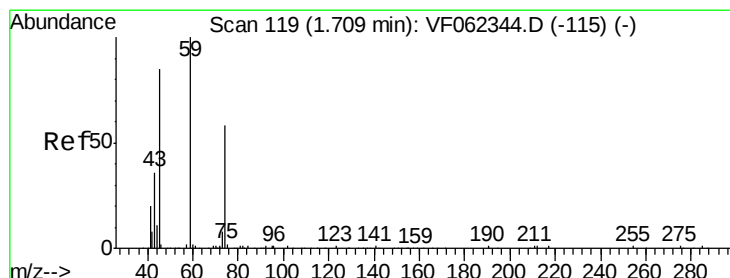
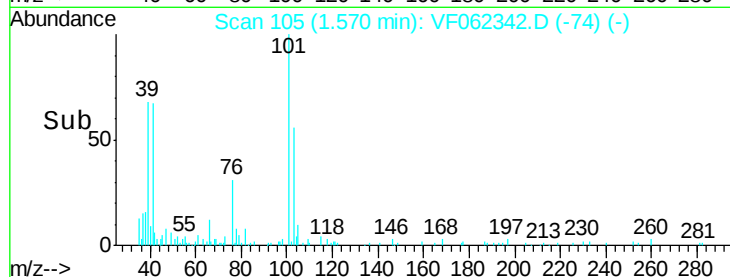
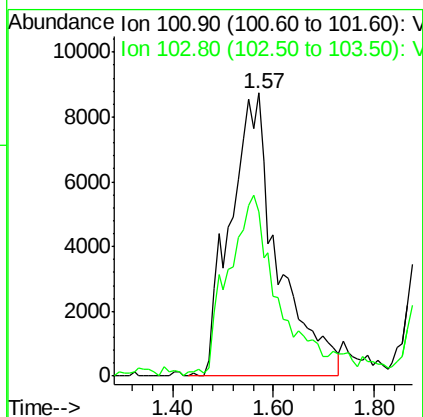
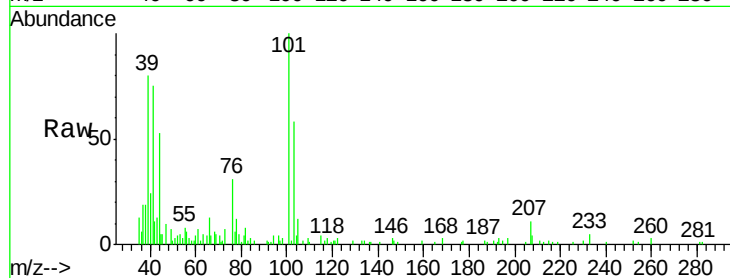


#7

Trichlorofluoromethane
Concen: 8.633 ug/l
RT: 1.57 min Scan# 105
Delta R.T. 0.01 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Instrument :
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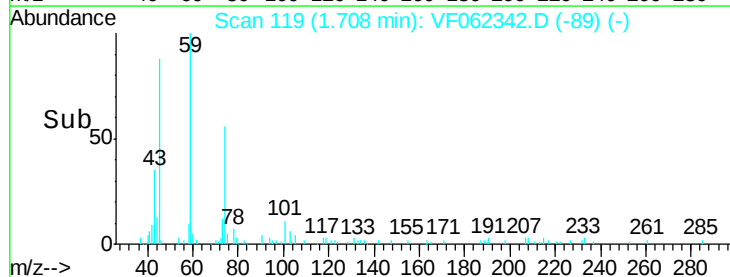
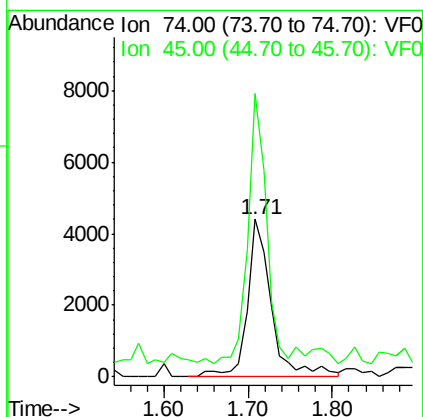
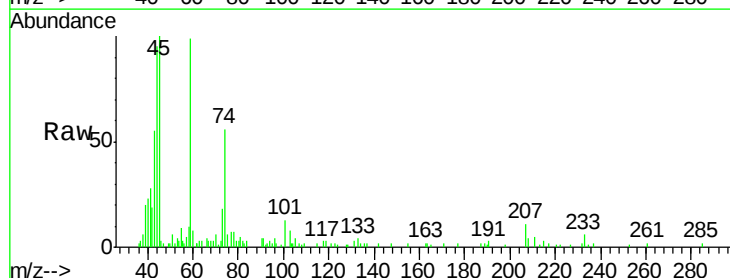
Tot Ion:101 Resp: 57156
Ion Ratio Lower Upper
101 100
103 56.5 48.5 72.7



#8

Diethyl Ether
Concen: 7.985 ug/l
RT: 1.71 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 74 Resp: 8818
Ion Ratio Lower Upper
74 100
45 128.4 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 7.991 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

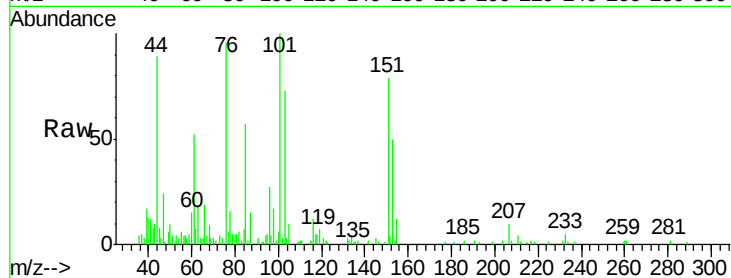
Tot Ion:101 Resp: 31904

Ion Ratio Lower Upper

101 100

85 57.3 39.5 59.3

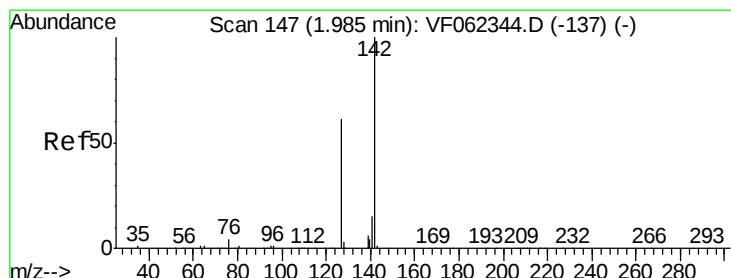
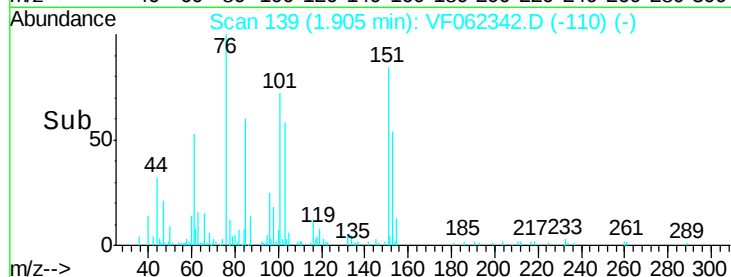
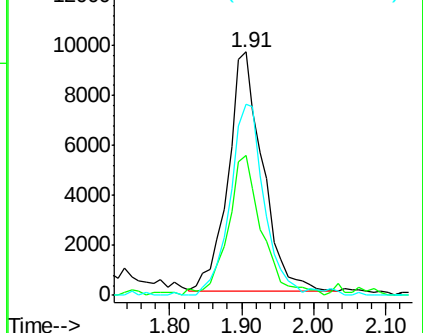
151 79.5 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 7.967 ug/l

RT: 1.97 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

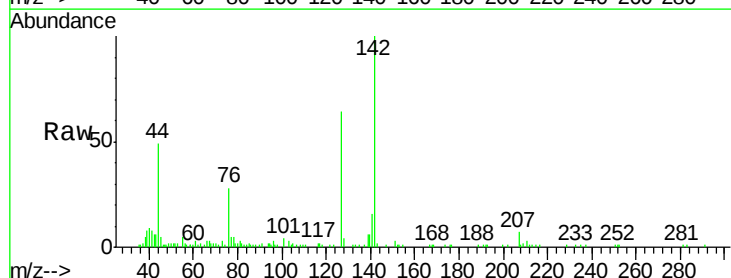
Tgt Ion:142 Resp: 54627

Ion Ratio Lower Upper

142 100

127 60.1 48.4 72.6

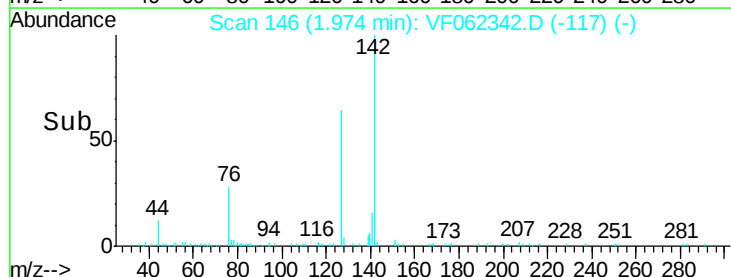
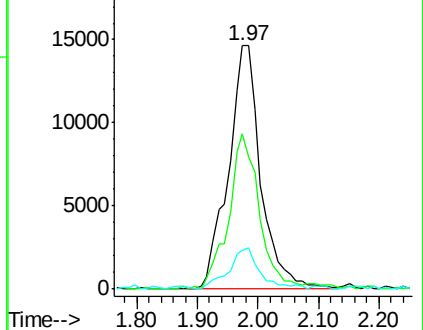
141 16.3 12.2 18.4

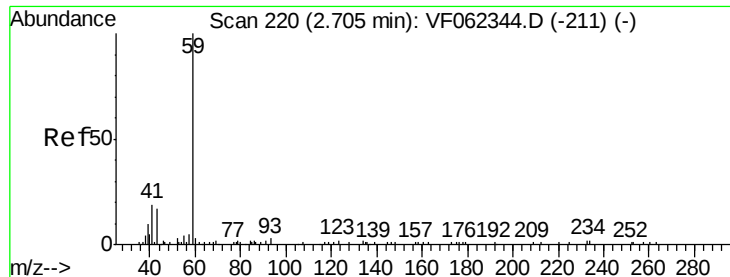


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

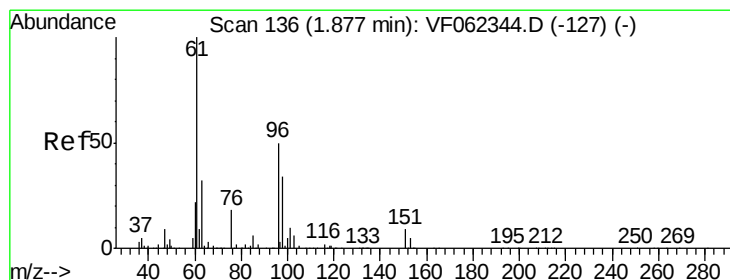
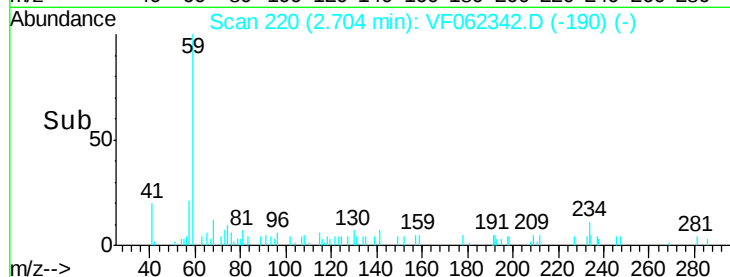
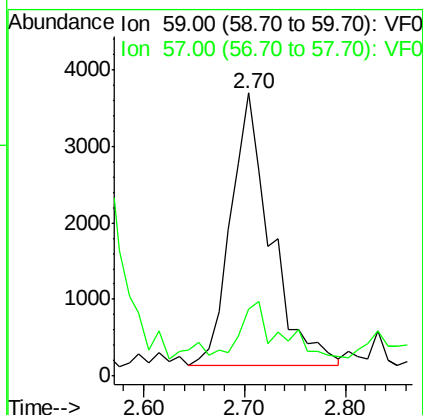
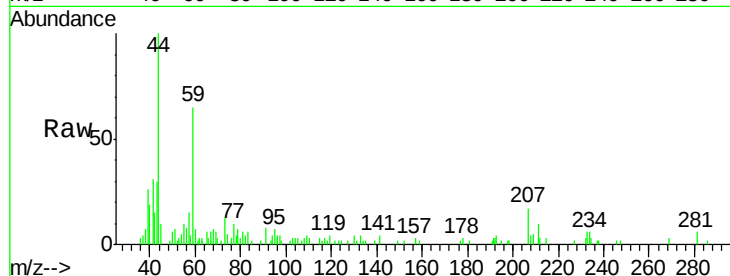




#11
Tert butyl alcohol
Concen: 45.356 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

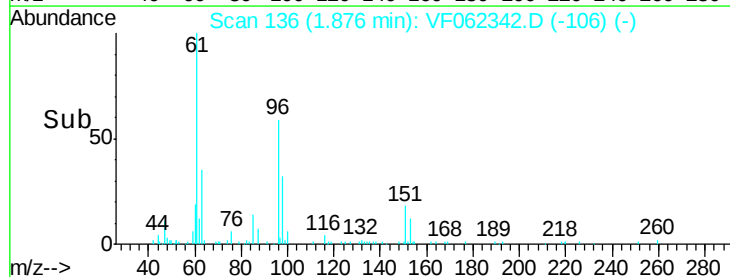
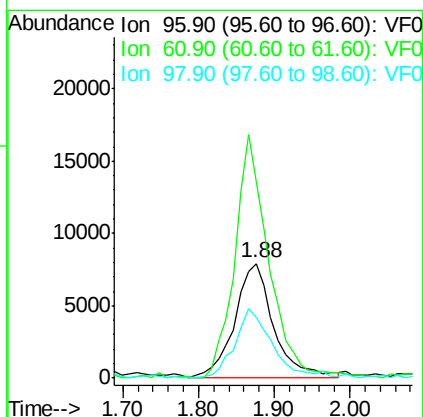
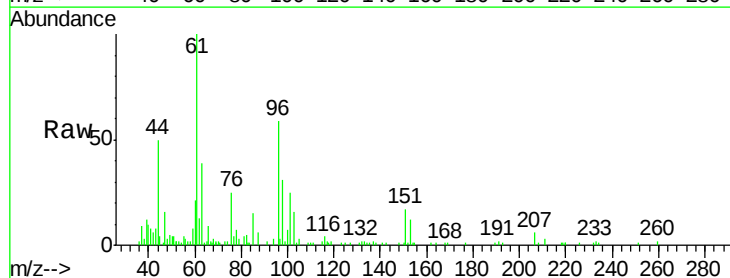
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

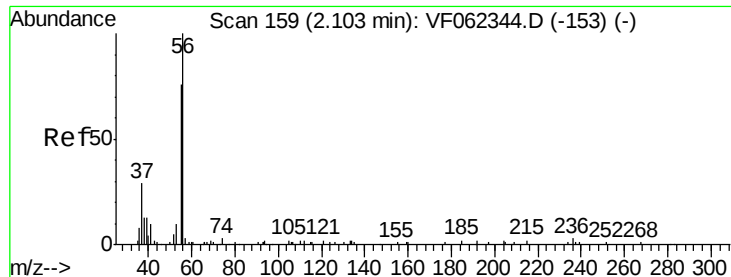
Tot Ion: 59 Resp: 9756
Ion Ratio Lower Upper
59 100
57 17.8 9.3 13.9#



#12
1,1-Dichloroethene
Concen: 8.160 ug/l
RT: 1.88 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 96 Resp: 28526
Ion Ratio Lower Upper
96 100
61 168.9 163.2 244.8
98 52.7 55.2 82.8#





#13

Acrolein

Concen: 44.613 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

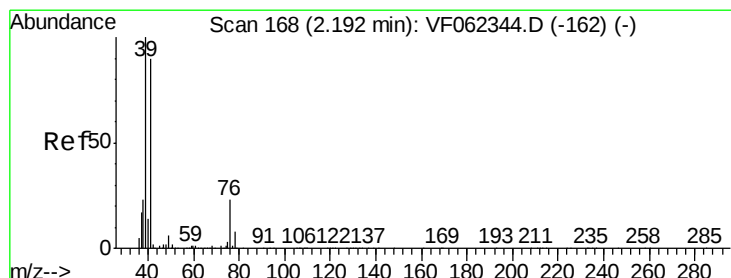
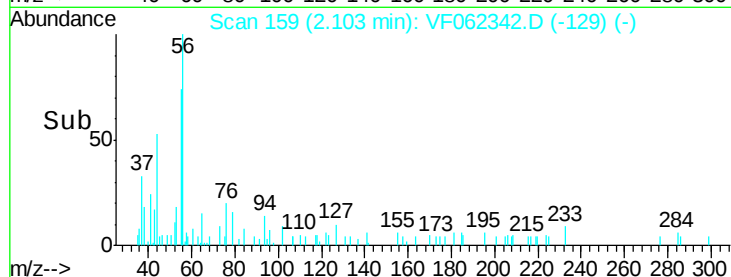
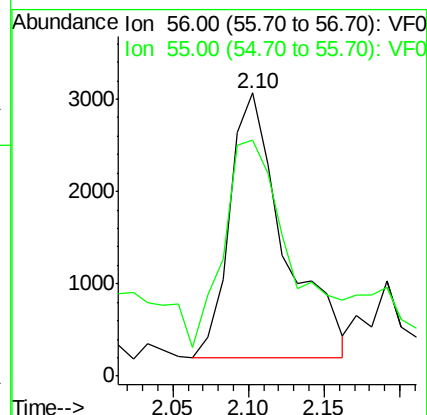
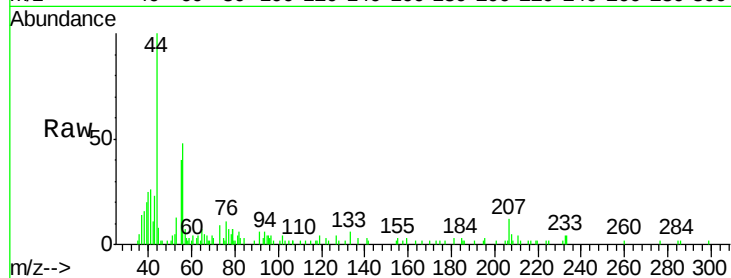
VSTDIC010

Tot Ion: 56 Resp: 7212

Ion Ratio Lower Upper

56 100

55 94.4 58.4 87.6#



#14

Allyl chloride

Concen: 7.420 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

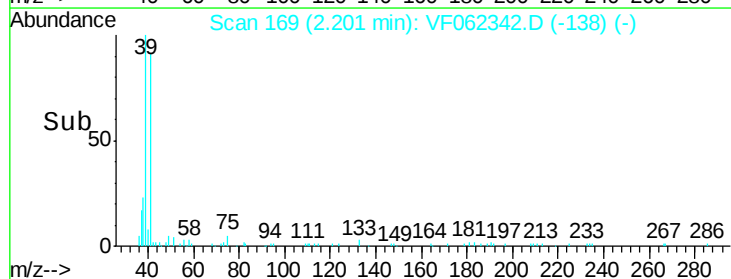
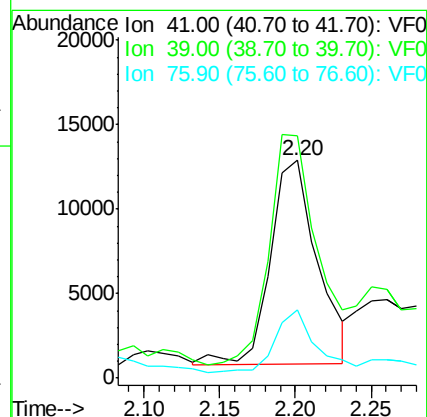
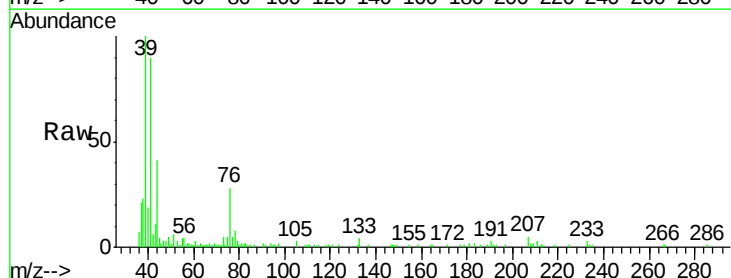
Tgt Ion: 41 Resp: 26378

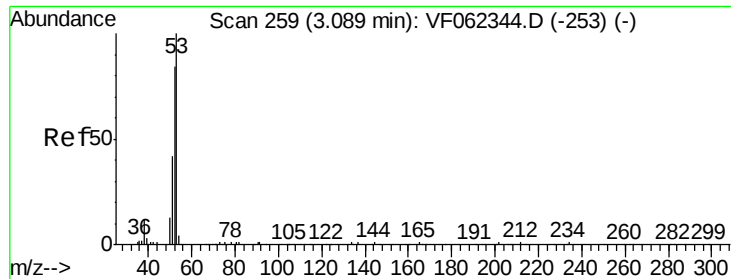
Ion Ratio Lower Upper

41 100

39 116.3 90.8 136.2

76 25.6 22.2 33.4

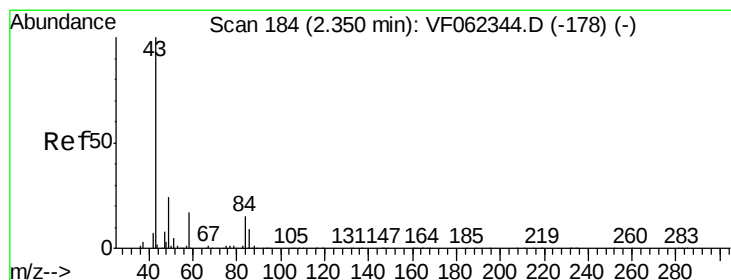
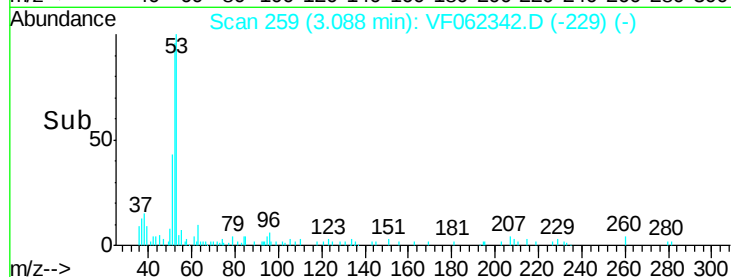
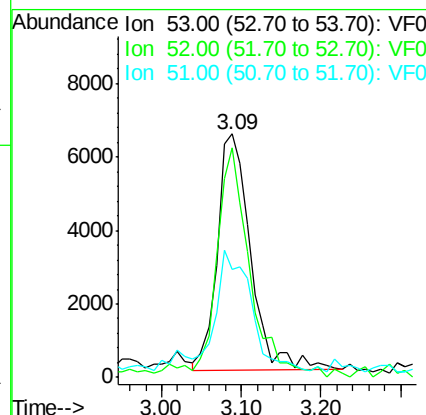
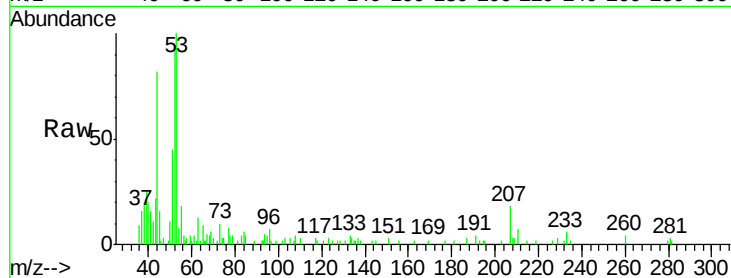




#15
 Acrylonitrile
 Concen: 35.031 ug/l
 RT: 3.09 min Scan# 259
 Delta R.T. -0.00 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

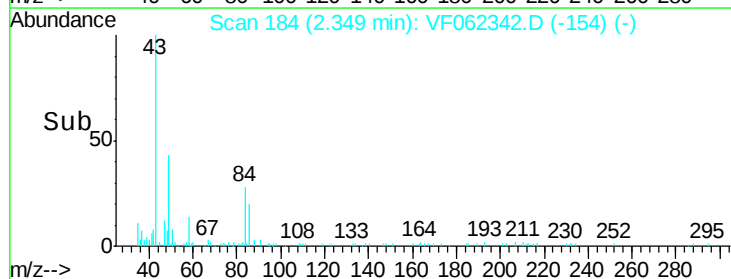
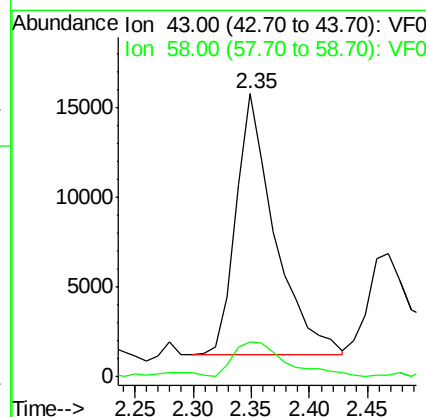
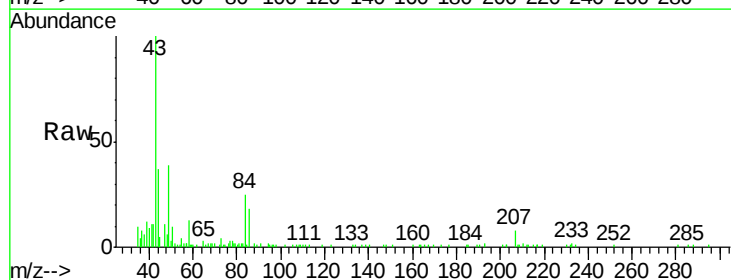
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

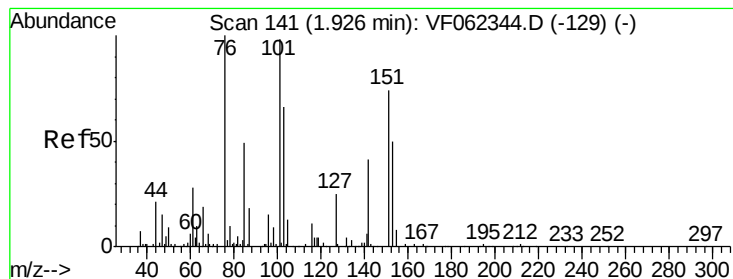
Tot Ion: 53 Resp: 18975
 Ion Ratio Lower Upper
 53 100
 52 95.0 77.2 115.8
 51 53.3 40.6 61.0



#16
 Acetone
 Concen: 41.270 ug/l
 RT: 2.35 min Scan# 184
 Delta R.T. -0.00 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

Tgt Ion: 43 Resp: 33273
 Ion Ratio Lower Upper
 43 100
 58 12.1 13.1 19.7#





#17

Carbon Disulfide

Concen: 7.048 ug/l

RT: 1.92 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

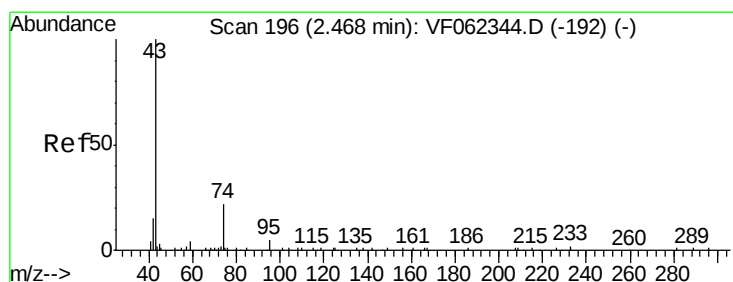
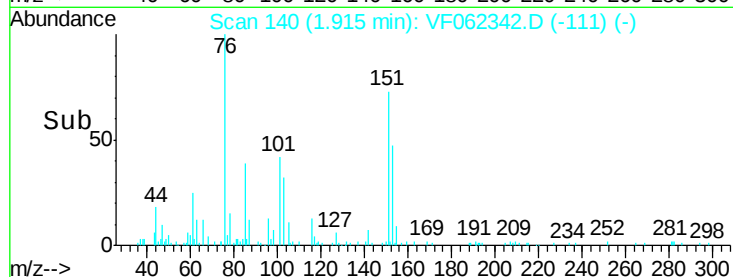
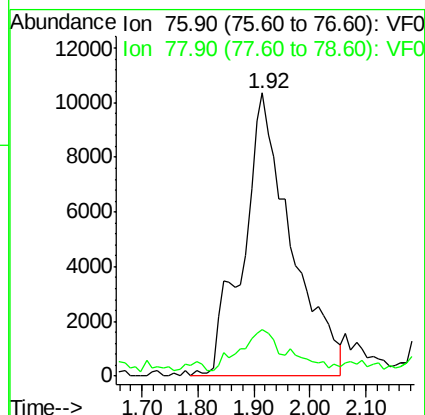
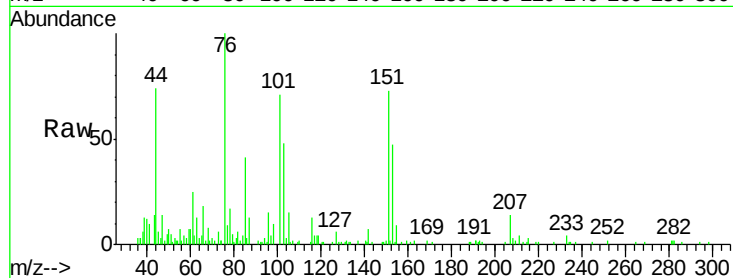
VSTDIC010

Tot Ion: 76 Resp: 61638

Ion Ratio Lower Upper

76 100

78 13.1 9.0 13.4



#18

Methyl Acetate

Concen: 8.423 ug/l

RT: 2.47 min Scan# 196

Delta R.T. -0.00 min

Lab File: VF062342.D

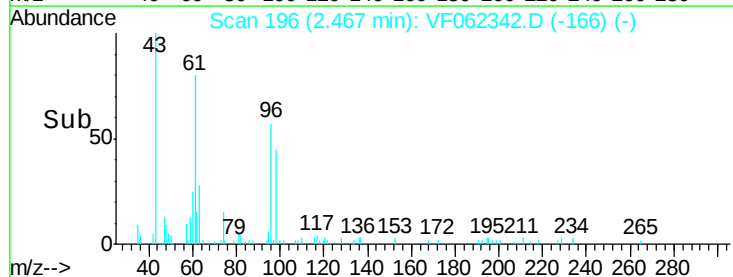
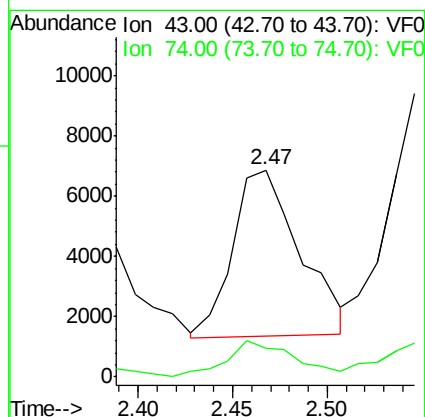
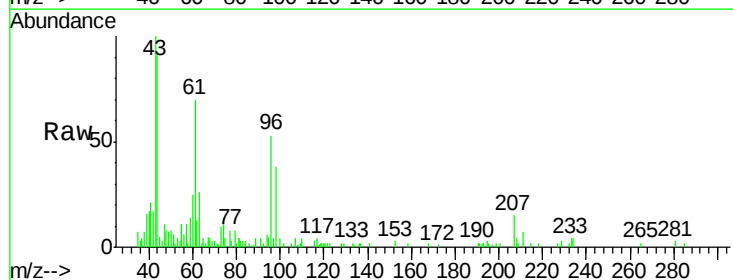
Acq: 6 May 2019 18:12

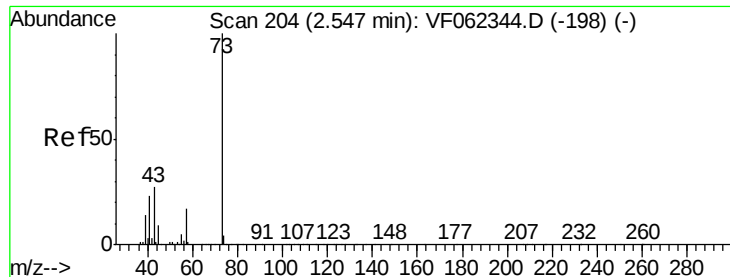
Tgt Ion: 43 Resp: 13649

Ion Ratio Lower Upper

43 100

74 22.0 15.0 22.4



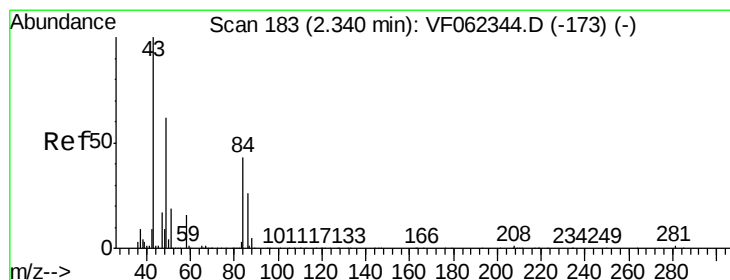
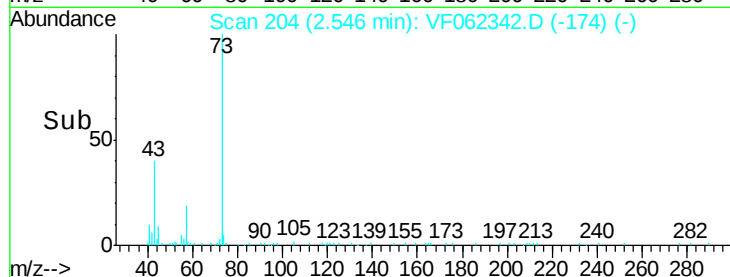
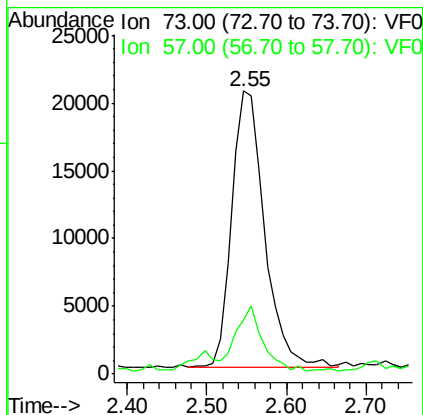
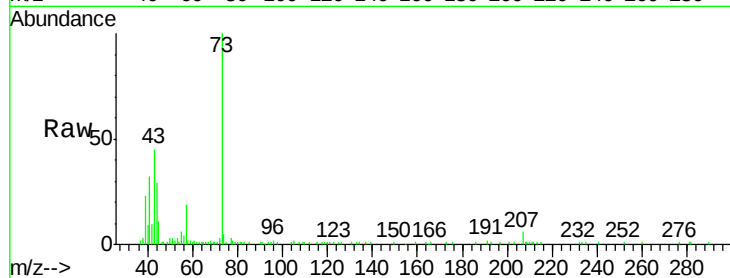


#19

Methyl tert-butyl Ether
 Concen: 8.558 ug/l
 RT: 2.55 min Scan# 204
 Delta R.T. -0.00 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

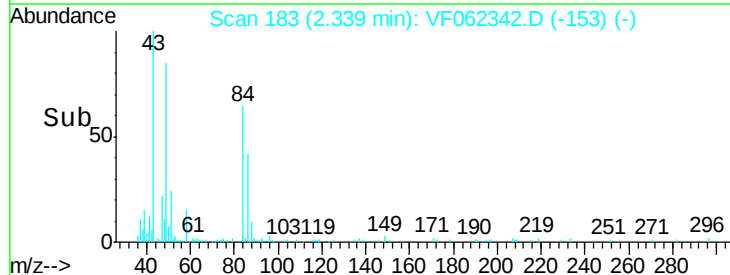
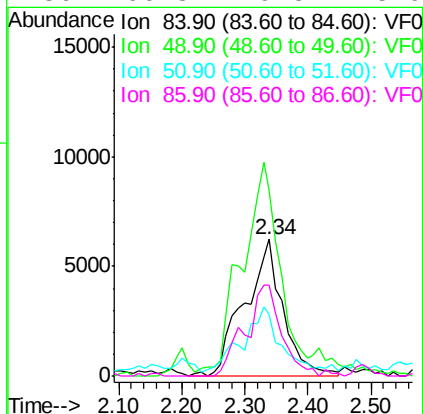
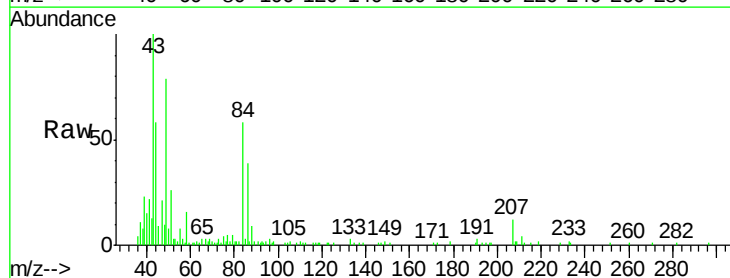
Tot Ion: 73 Resp: 58995
 Ion Ratio Lower Upper
 73 100
 57 18.2 13.7 20.5

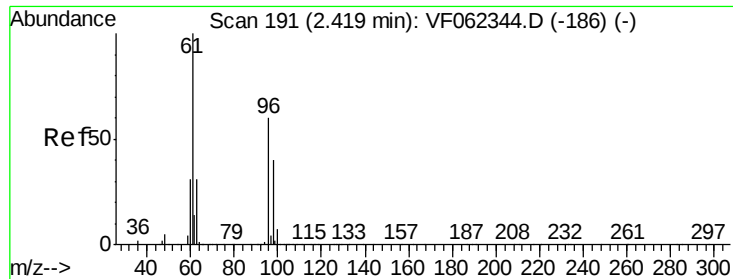


#20

Methylene Chloride
 Concen: 6.751 ug/l
 RT: 2.34 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

Tgt Ion: 84 Resp: 26390
 Ion Ratio Lower Upper
 84 100
 49 127.2 117.5 176.3
 51 41.2 37.0 55.4
 86 66.8 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 8.199 ug/l

RT: 2.42 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

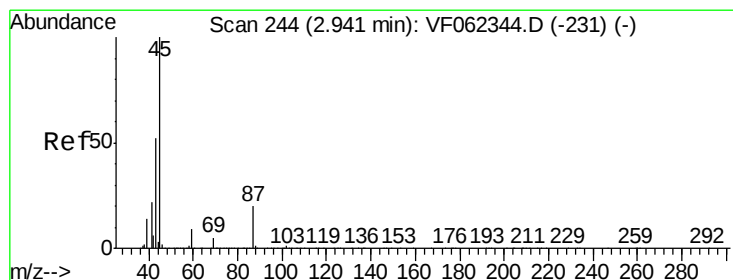
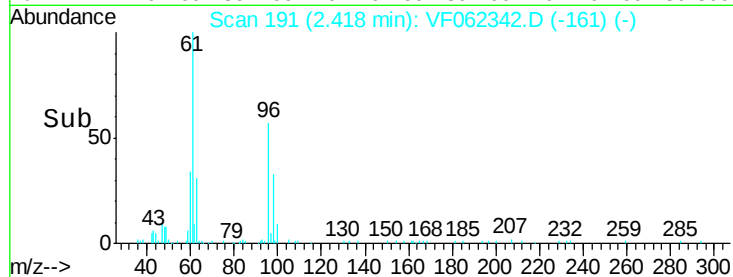
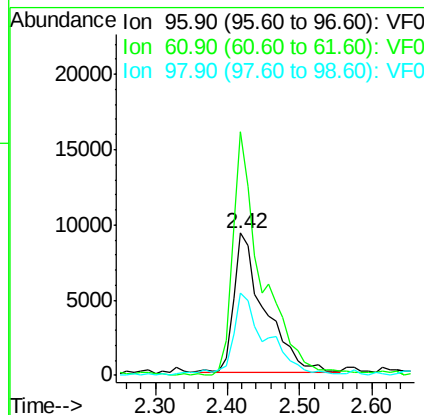
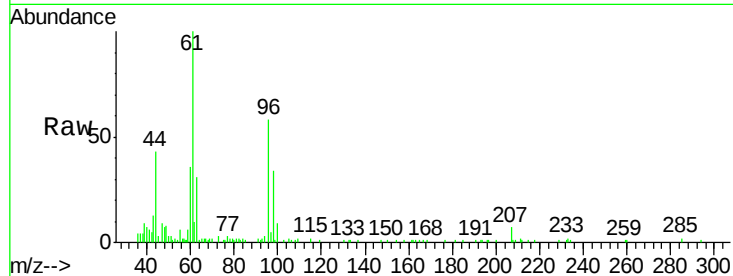
Tot Ion: 96 Resp: 28045

Ion Ratio Lower Upper

96 100

61 176.3 133.2 199.8

98 58.0 53.1 79.7



#22

Diisopropyl ether

Concen: 7.356 ug/l

RT: 2.94 min Scan# 244

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Tgt Ion: 45 Resp: 76153

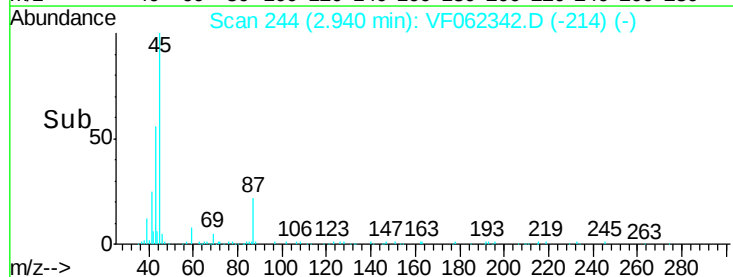
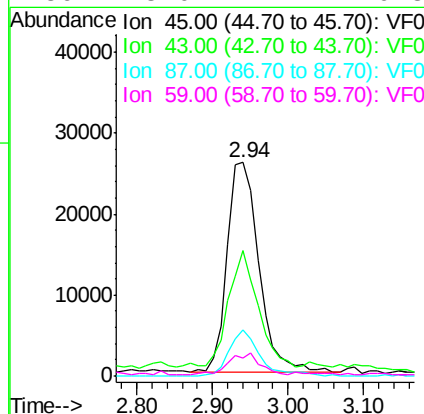
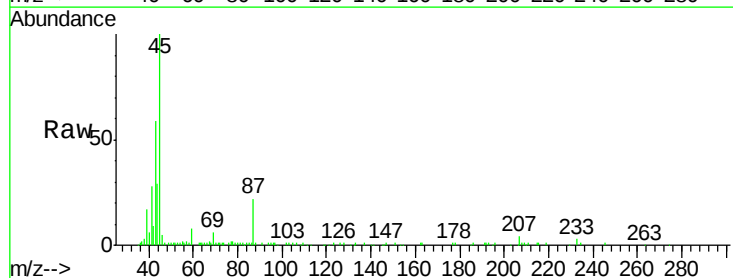
Ion Ratio Lower Upper

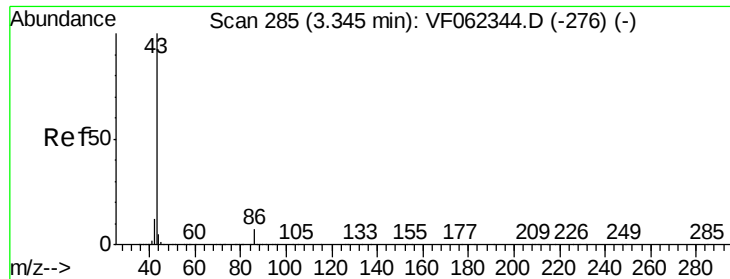
45 100

43 54.7 41.4 62.0

87 21.9 15.8 23.6

59 8.0 7.2 10.8





#23

Vinyl Acetate

Concen: 38.806 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

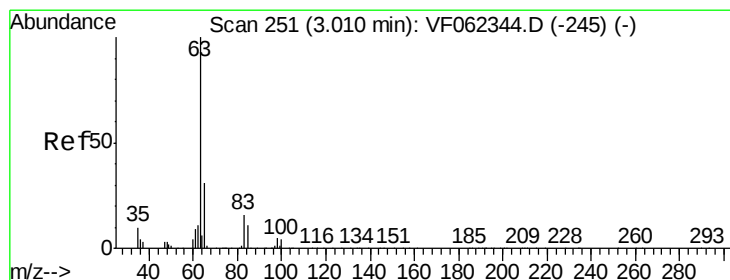
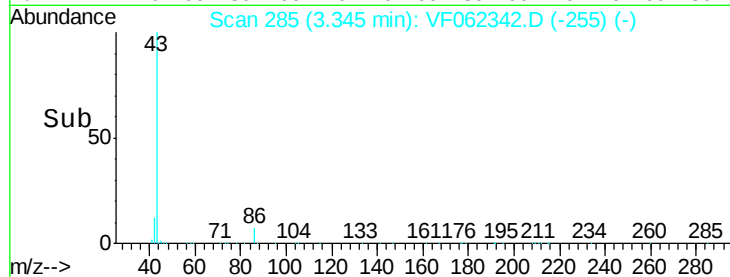
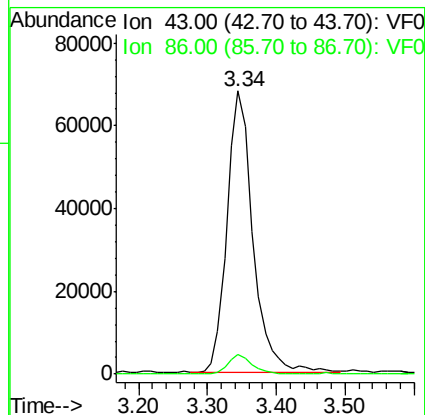
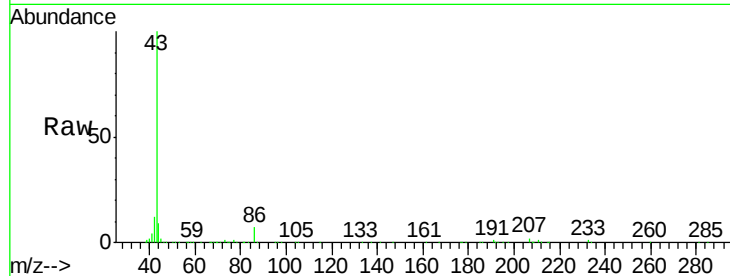
VSTDIC010

Tot Ion: 43 Resp: 179626

Ion Ratio Lower Upper

43 100

86 6.8 5.7 8.5



#24

1,1-Dichloroethane

Concen: 8.273 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

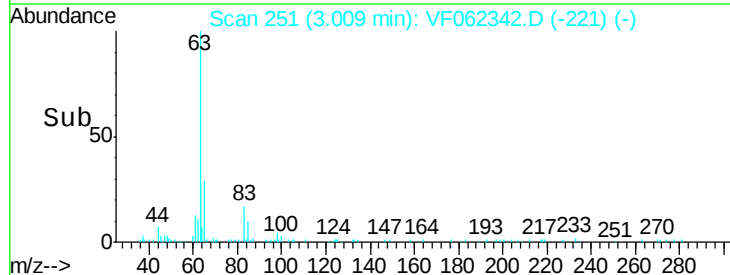
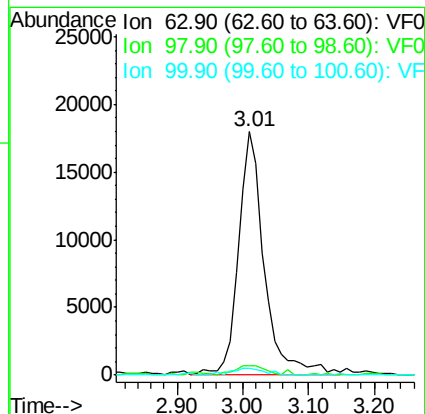
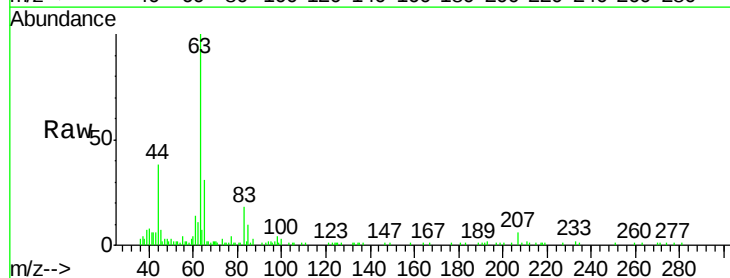
Tgt Ion: 63 Resp: 49656

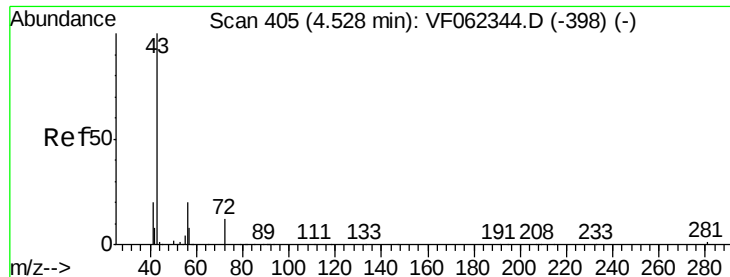
Ion Ratio Lower Upper

63 100

98 4.1 2.6 8.0

100 2.1 1.8 5.4





#25

2-Butanone

Concen: 37.194 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

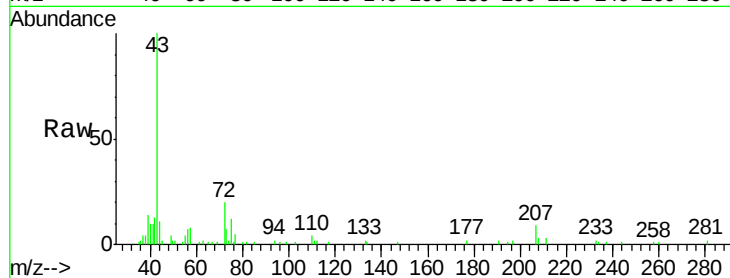
VSTDIC010

Tot Ion: 43 Resp: 44031

Ion Ratio Lower Upper

43 100

72 20.7 14.2 21.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

12000

10000

8000

6000

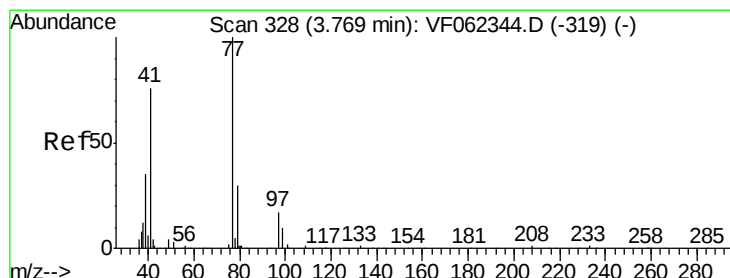
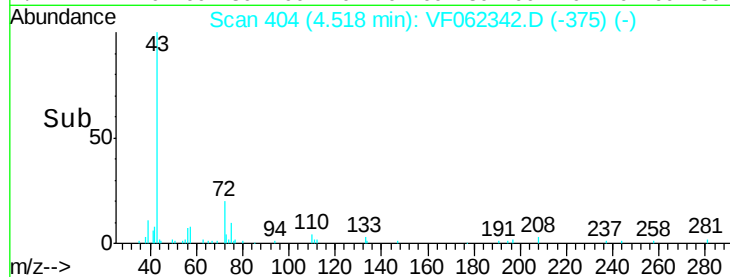
4000

2000

0

4.40 4.50 4.60 4.70

Time-->



#26

2,2-Dichloropropane

Concen: 9.426 ug/l

RT: 3.77 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF062342.D

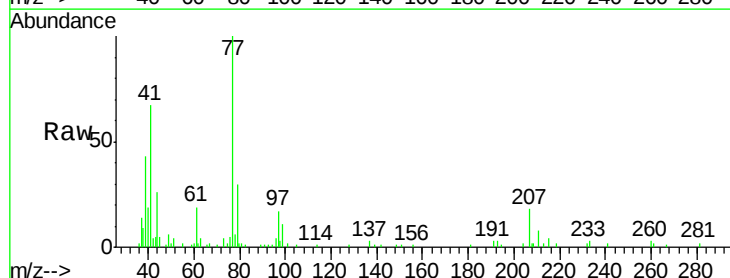
Acq: 6 May 2019 18:12

Tgt Ion: 77 Resp: 29573

Ion Ratio Lower Upper

77 100

97 16.5 9.5 28.5



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0

10000

8000

6000

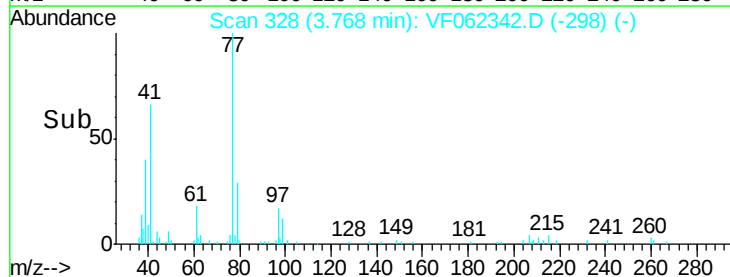
4000

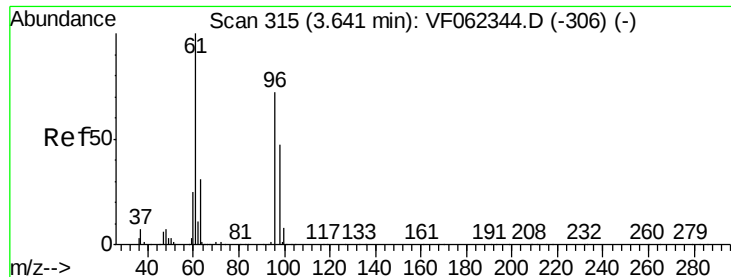
2000

0

3.60 3.70 3.80 3.90

Time-->



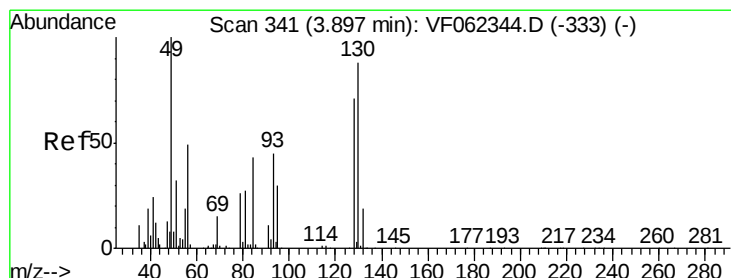
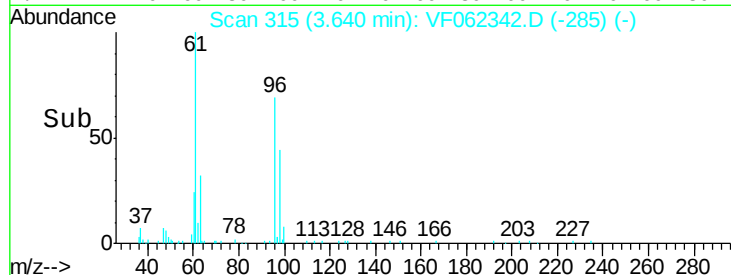
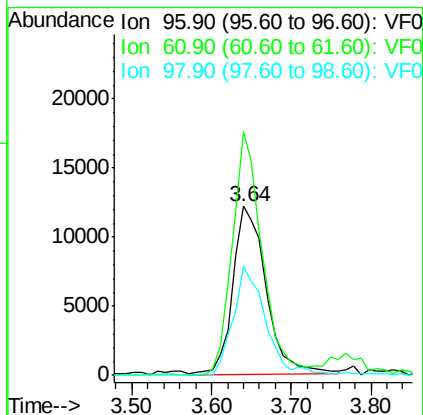
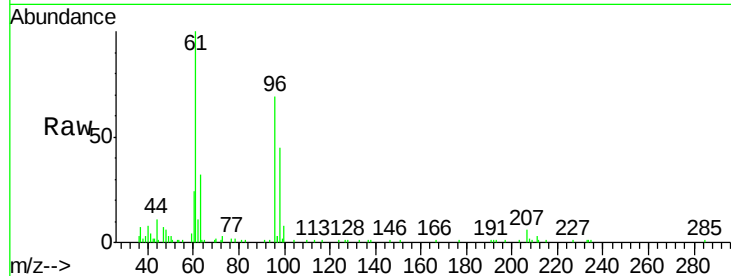


#27

cis-1,2-Dichloroethene
Concen: 8.047 ug/l
RT: 3.64 min Scan# 315
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

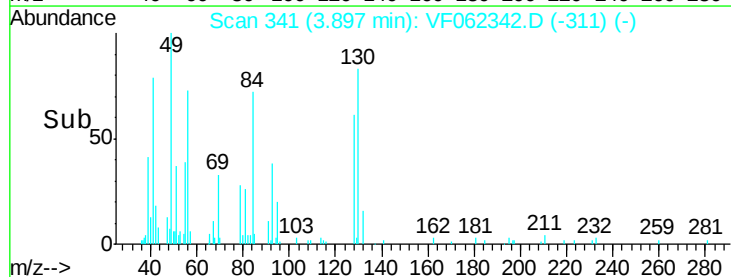
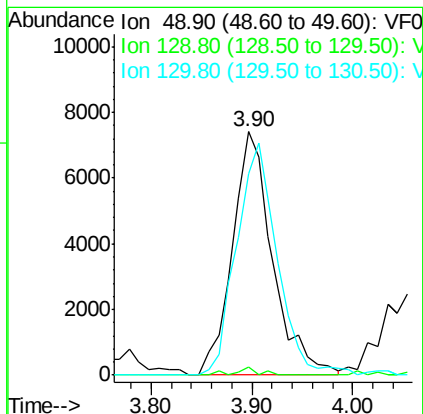
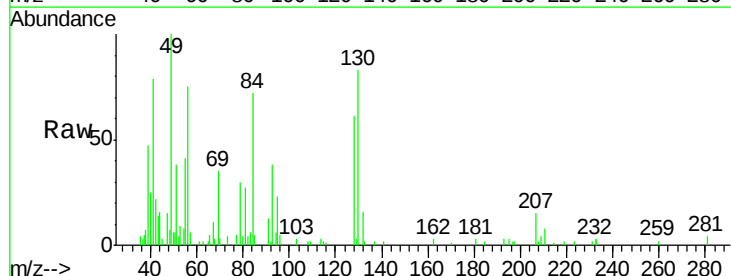
Tot Ion: 96 Resp: 35345
Ion Ratio Lower Upper
96 100
61 130.0 0.0 263.0
98 63.1 0.0 130.8

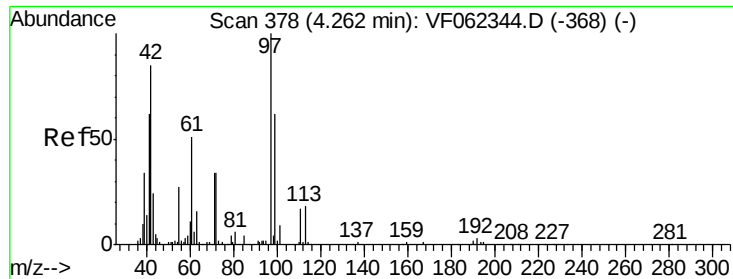


#28

Bromochloromethane
Concen: 7.746 ug/l
RT: 3.90 min Scan# 341
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 49 Resp: 20502
Ion Ratio Lower Upper
49 100
129 1.7 0.0 2.2
130 96.8 79.4 119.0

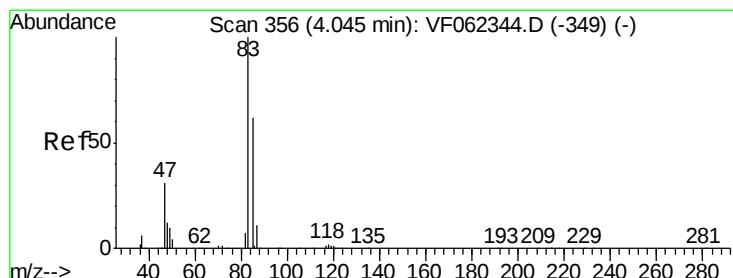
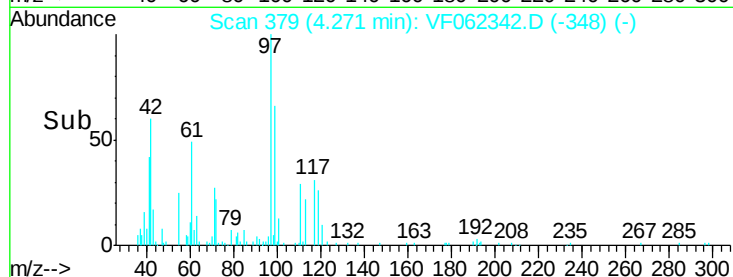
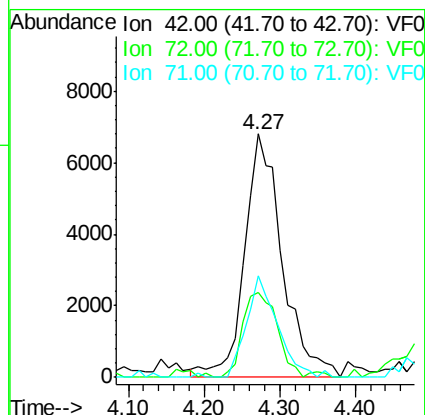
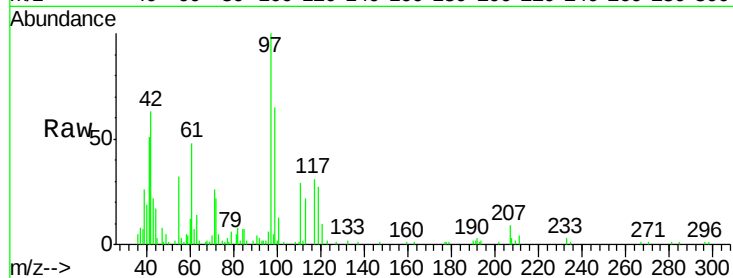




#29
Tetrahydrofuran
Concen: 45.671 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

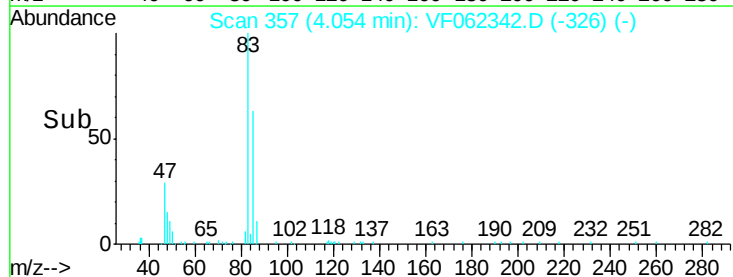
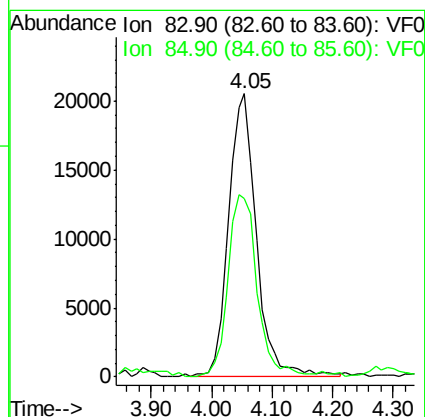
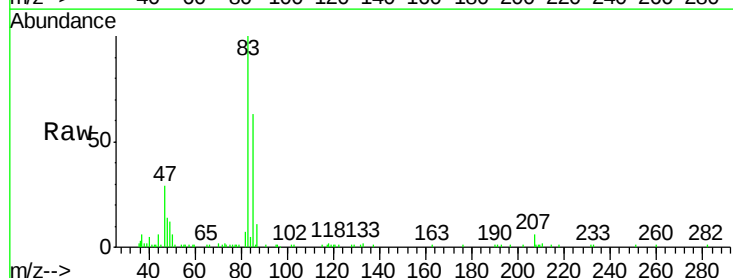
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

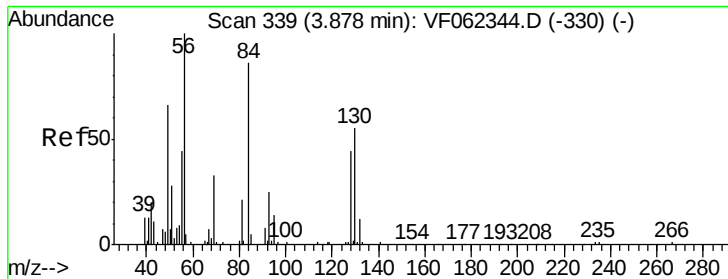
Tot Ion: 42 Resp: 23583
Ion Ratio Lower Upper
42 100
72 31.7 31.4 47.0
71 34.3 31.7 47.5



#30
Chloroform
Concen: 8.491 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.01 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 83 Resp: 65698
Ion Ratio Lower Upper
83 100
85 62.8 49.6 74.4





#31

Cyclohexane

Concen: 7.545 ug/l

RT: 3.88 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

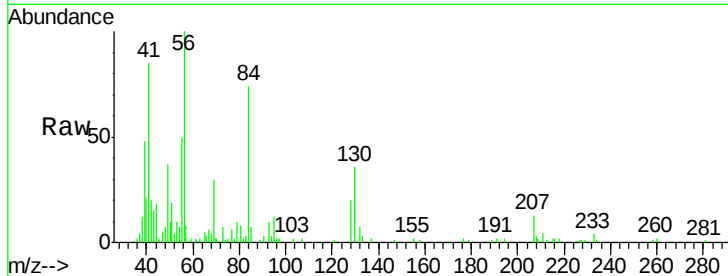
Tot Ion: 56 Resp: 40564

Ion Ratio Lower Upper

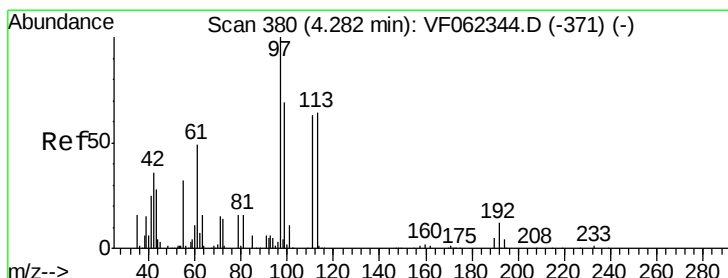
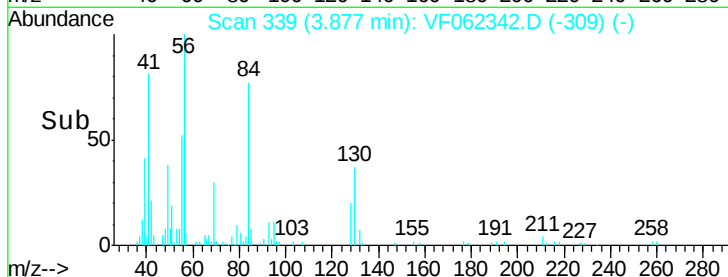
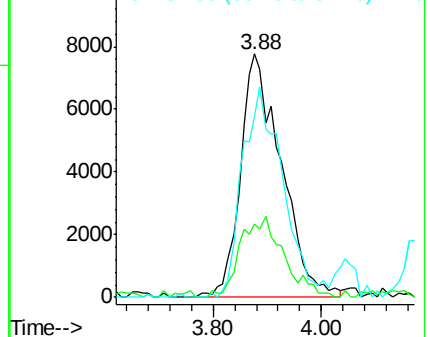
56 100

69 30.2 26.4 39.6

84 74.5 69.0 103.6



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



#32

1,1,1-Trichloroethane

Concen: 10.951 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

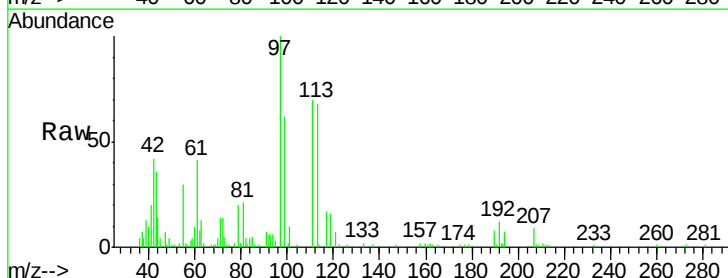
Tgt Ion: 97 Resp: 62225

Ion Ratio Lower Upper

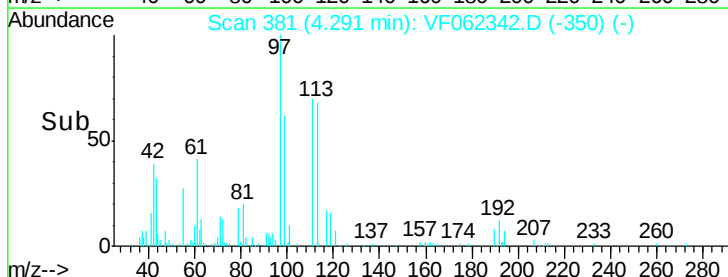
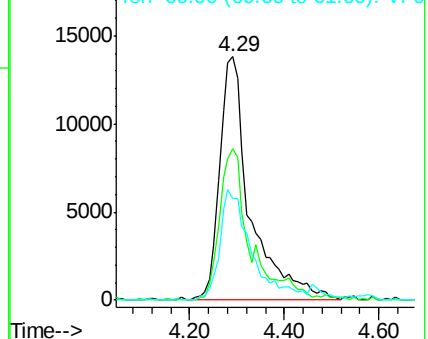
97 100

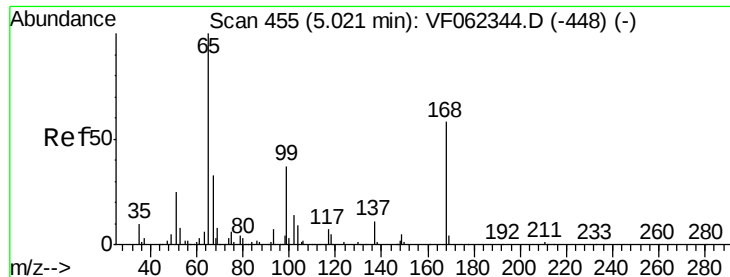
99 61.9 52.6 78.8

61 46.1 39.4 59.0



Abundance Ion 96.90 (96.60 to 97.60): VF0
Ion 98.90 (98.60 to 99.60): VF0
Ion 60.90 (60.60 to 61.60): VF0





#33

1,2-Dichloroethane-d4

Concen: 7.713 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

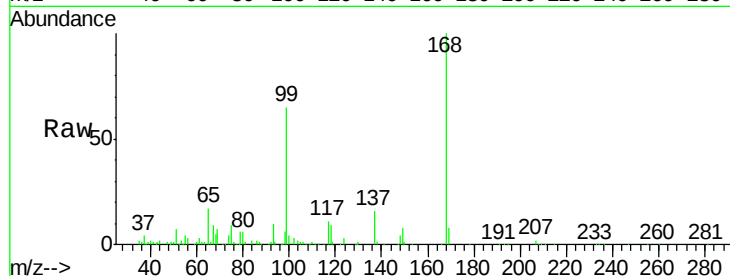
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 65 Resp: 30037

Ion Ratio Lower Upper

65 100

67 54.7 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

12000

10000

8000

6000

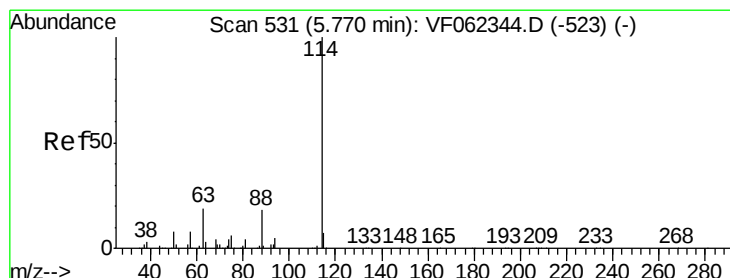
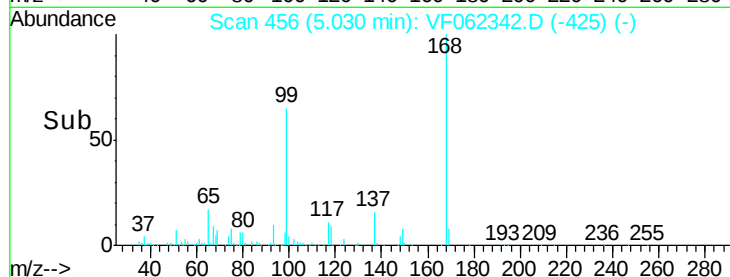
4000

2000

0

Time-->

4.95 5.00 5.05 5.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

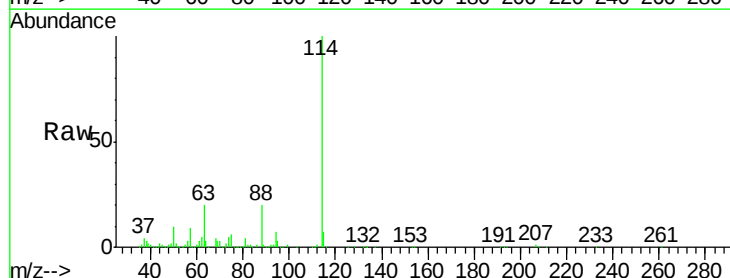
Tgt Ion: 114 Resp: 438980

Ion Ratio Lower Upper

114 100

63 19.9 0.0 37.4

88 19.7 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

200000

150000

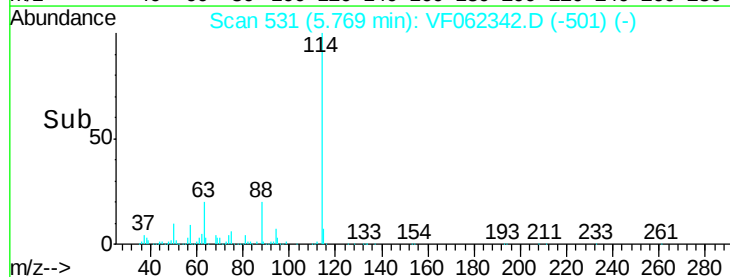
100000

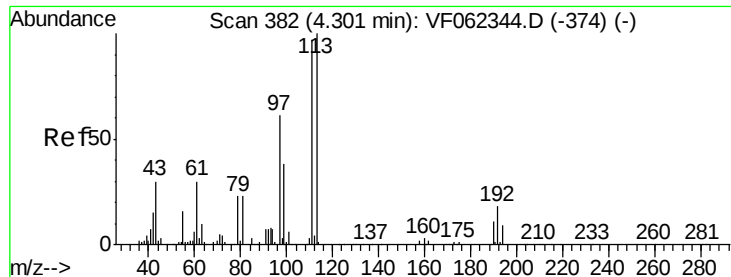
50000

0

Time-->

5.60 5.80 6.00

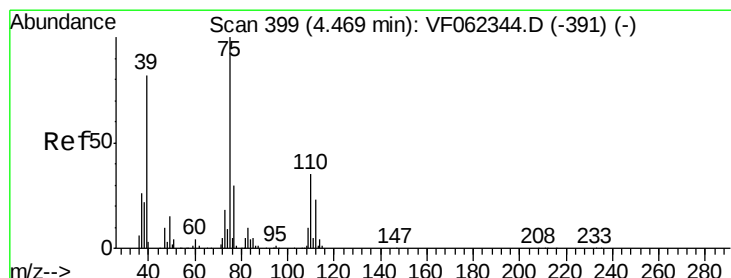
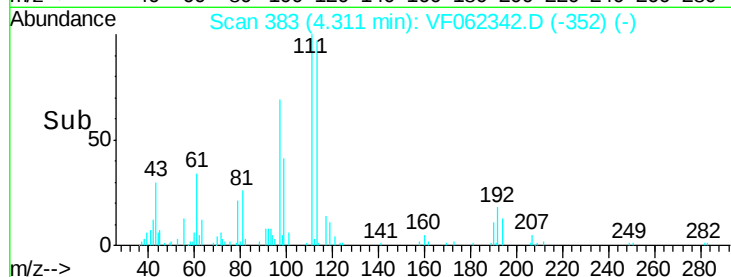
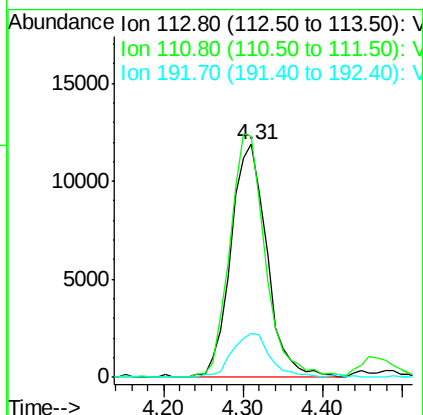
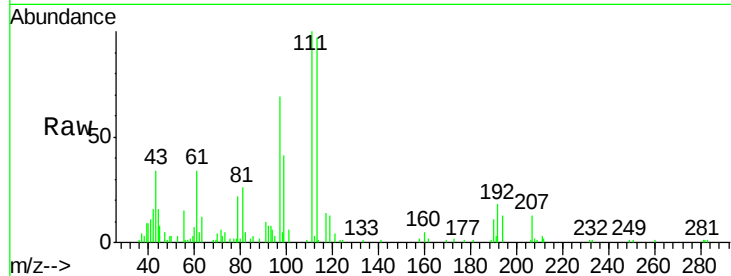




#35
 Dibromofluoromethane
 Concen: 8.859 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

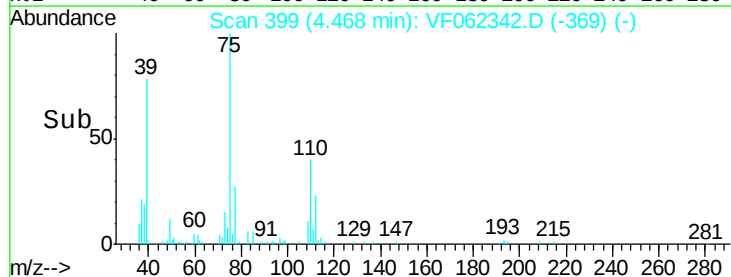
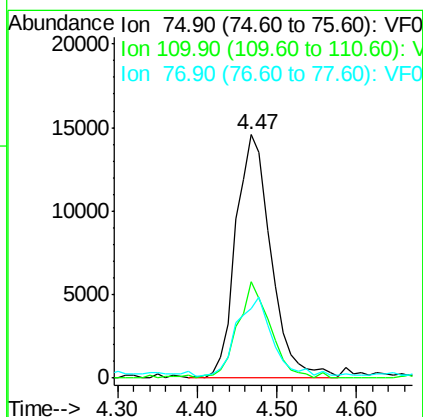
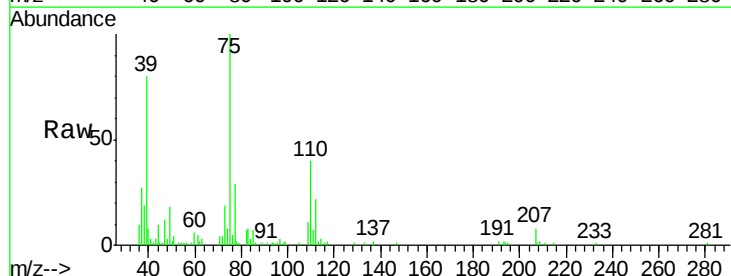
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

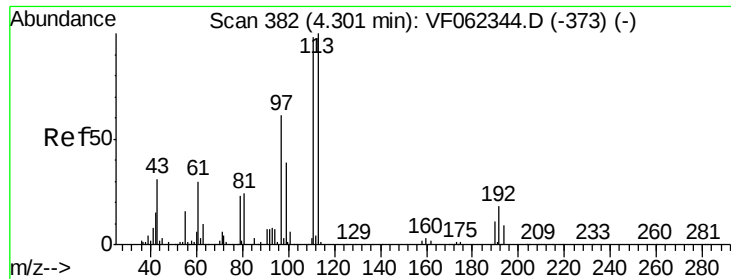
Tot Ion:113 Resp: 37404
 Ion Ratio Lower Upper
 113 100
 111 103.4 79.4 119.0
 192 19.9 16.0 24.0



#36
 1,1-Dichloropropene
 Concen: 9.194 ug/l
 RT: 4.47 min Scan# 399
 Delta R.T. -0.00 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

Tgt Ion: 75 Resp: 44831
 Ion Ratio Lower Upper
 75 100
 110 36.3 17.2 51.5
 77 32.2 25.2 37.8

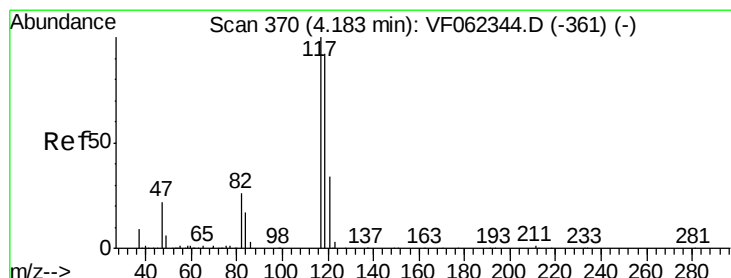
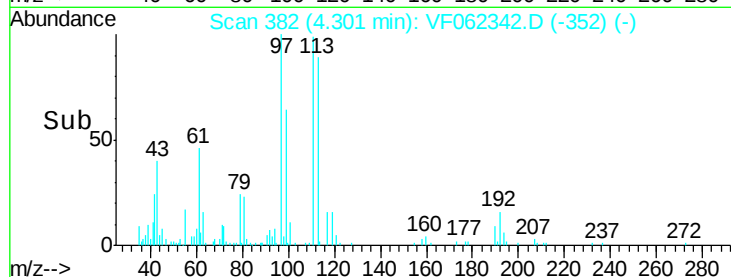
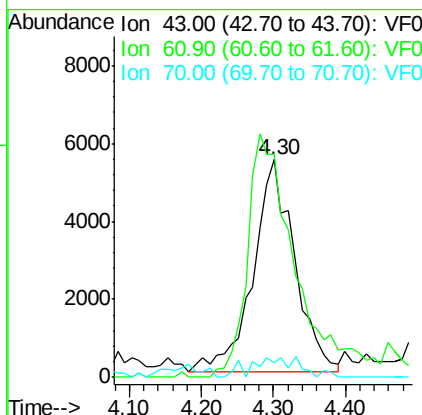
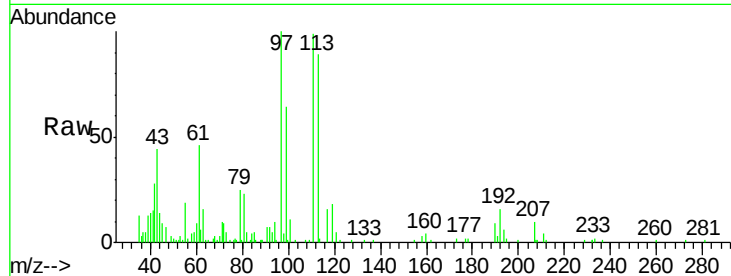




#37
Ethyl Acetate
Concen: 10.561 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

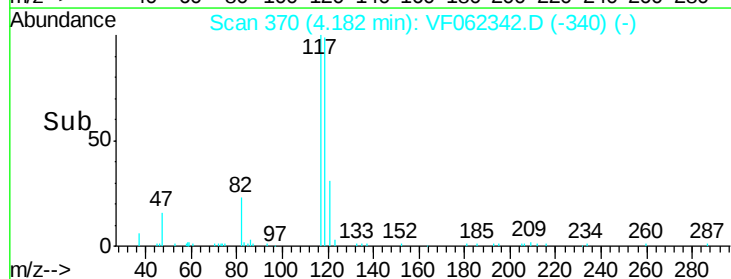
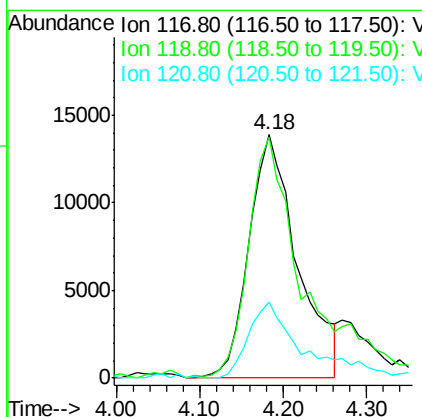
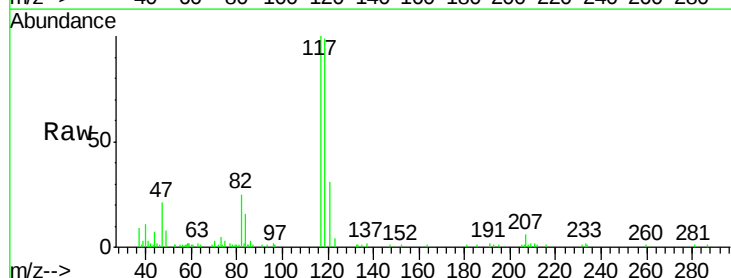
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

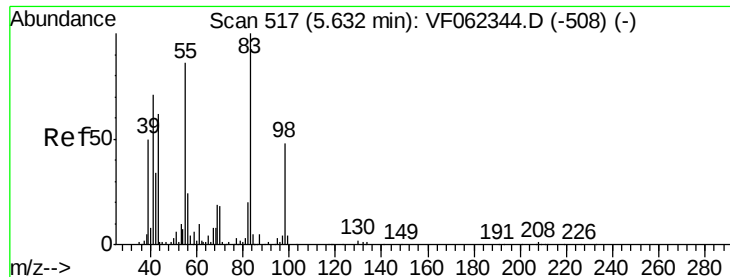
Tot Ion: 43 Resp: 21569
Ion Ratio Lower Upper
43 100
61 132.9 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 11.188 ug/l m
RT: 4.18 min Scan# 370
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 117 Resp: 56049
Ion Ratio Lower Upper
117 100
119 99.1 73.4 110.2
121 31.2 27.4 41.0

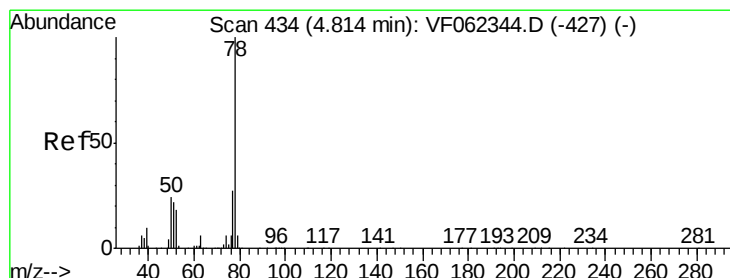
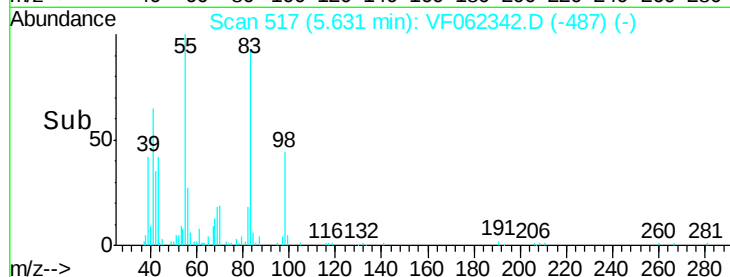
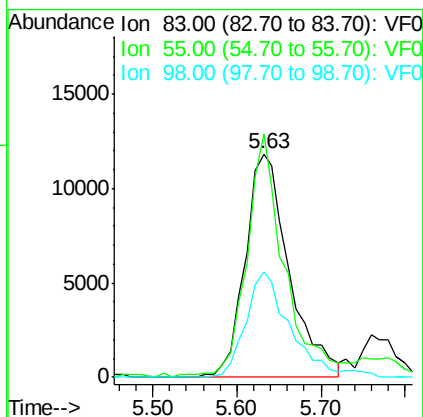
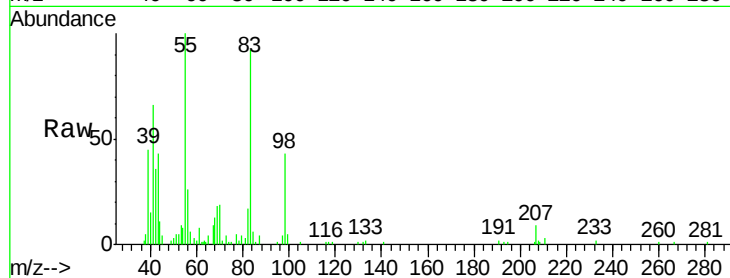




#39
Methvlcvclohexane
Concen: 7.843 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

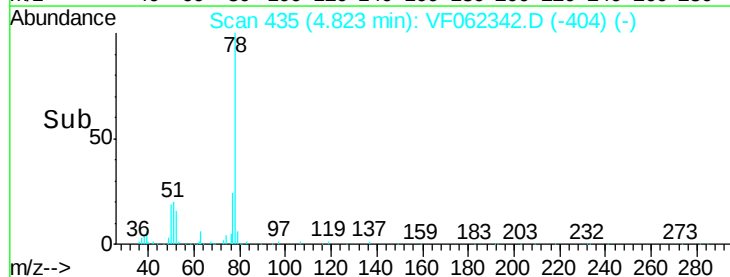
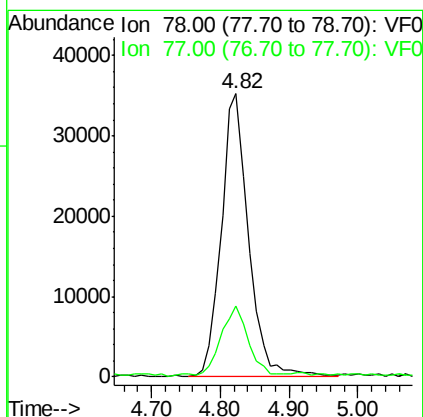
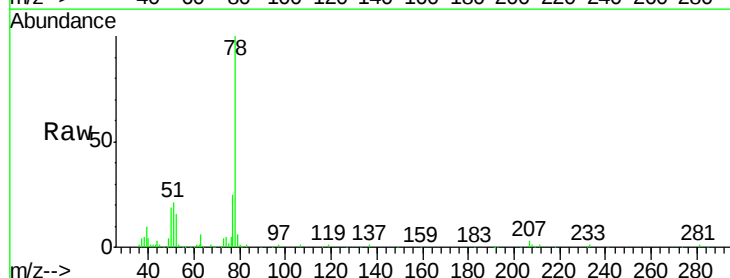
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

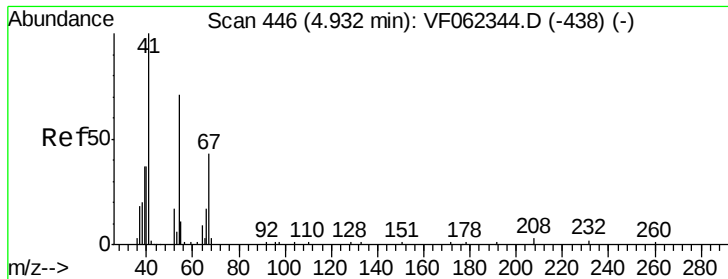
Tot Ion: 83 Resp: 43125
Ion Ratio Lower Upper
83 100
55 107.7 69.0 103.6#
98 47.0 38.6 58.0



#40
Benzene
Concen: 8.438 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.01 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 78 Resp: 95766
Ion Ratio Lower Upper
78 100
77 24.2 21.6 32.4





#41

Methacrylonitrile

Concen: 10.204 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 41 Resp: 11534

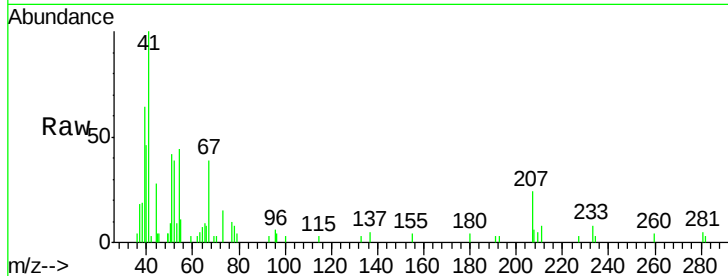
Ion Ratio Lower Upper

41 100

39 65.5 54.3 81.5

67 54.2 37.8 56.8

52 0.0 58.2 87.4#

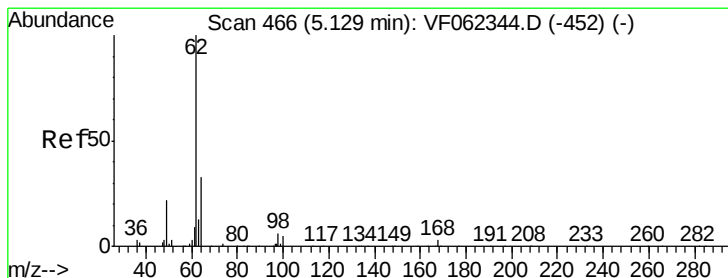
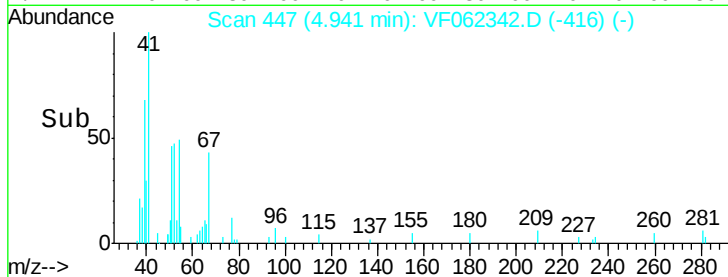
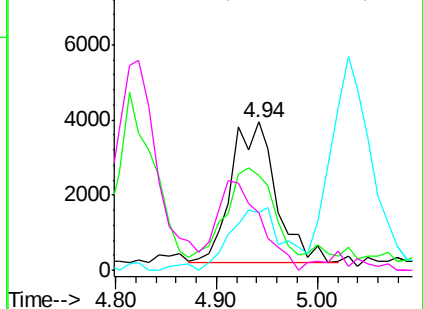


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 10.115 ug/l

RT: 5.12 min Scan# 465

Delta R.T. -0.01 min

Lab File: VF062342.D

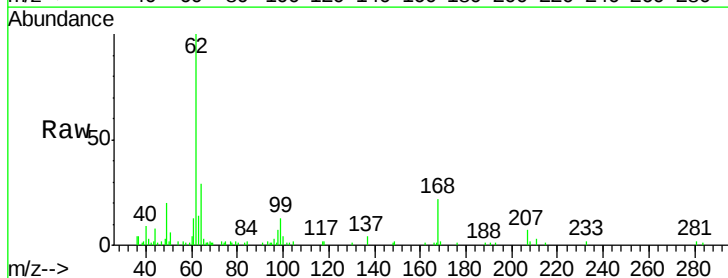
Acq: 6 May 2019 18:12

Tgt Ion: 62 Resp: 40533

Ion Ratio Lower Upper

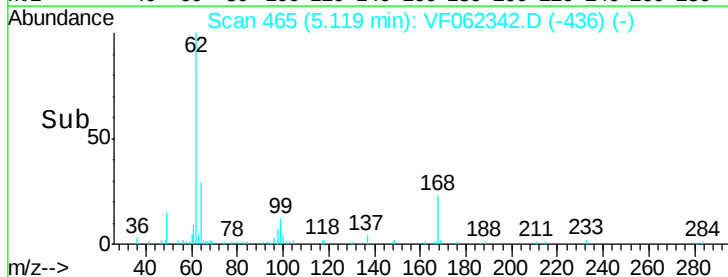
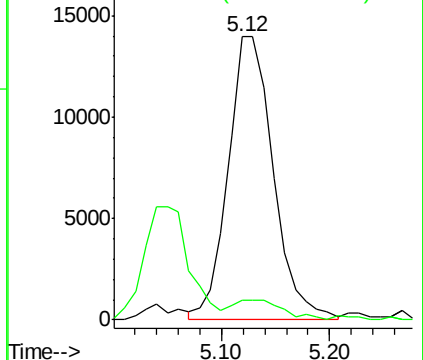
62 100

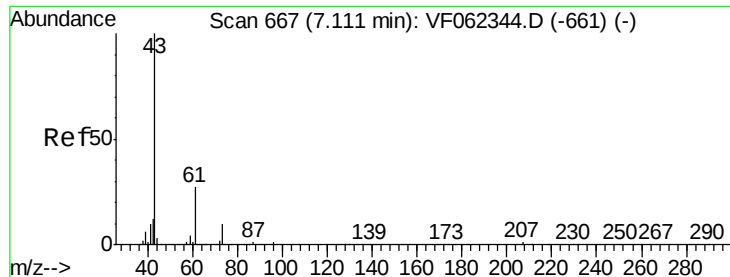
98 8.0 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0





#43

Isopropyl Acetate

Concen: 9.617 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

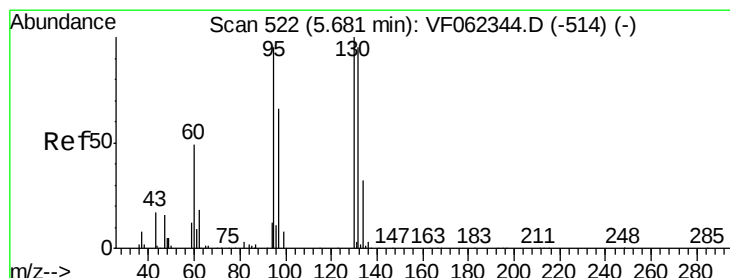
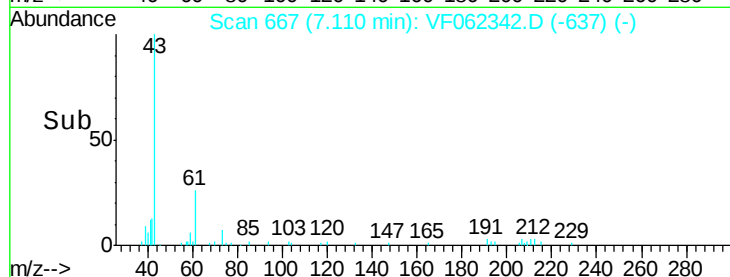
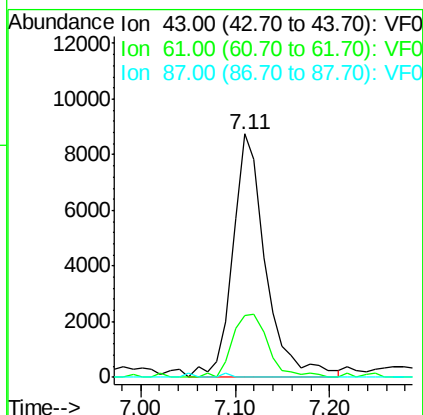
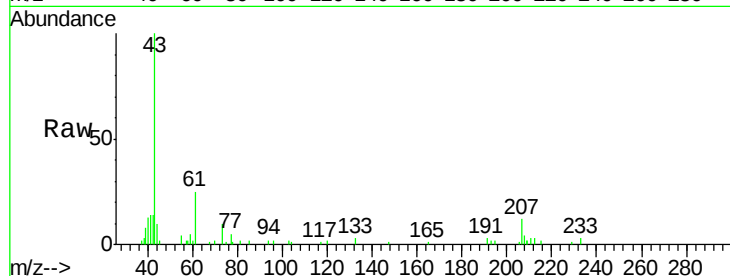
Tot Ion: 43 Resp: 21144

Ion Ratio Lower Upper

43 100

61 28.0 22.8 34.2

87 0.0 0.6 1.0#



#44

Trichloroethene

Concen: 8.832 ug/l

RT: 5.68 min Scan# 522

Delta R.T. -0.00 min

Lab File: VF062342.D

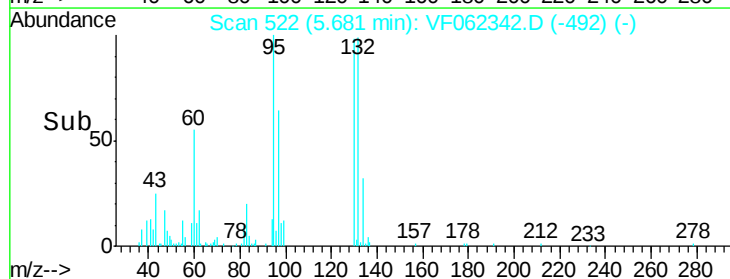
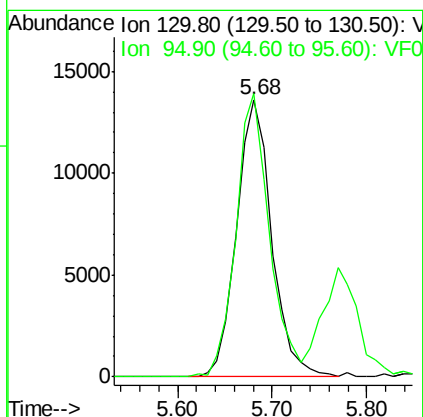
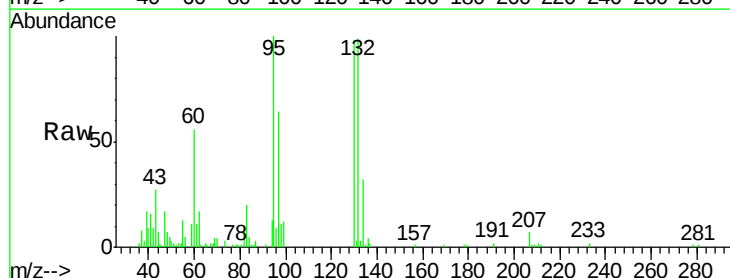
Acq: 6 May 2019 18:12

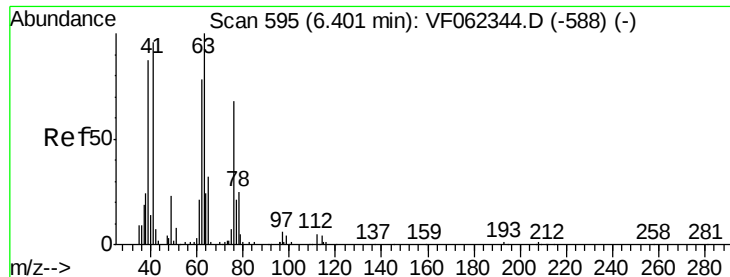
Tgt Ion:130 Resp: 34917

Ion Ratio Lower Upper

130 100

95 102.1 0.0 189.0





#45

1,2-Dichloropropane

Concen: 8.097 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

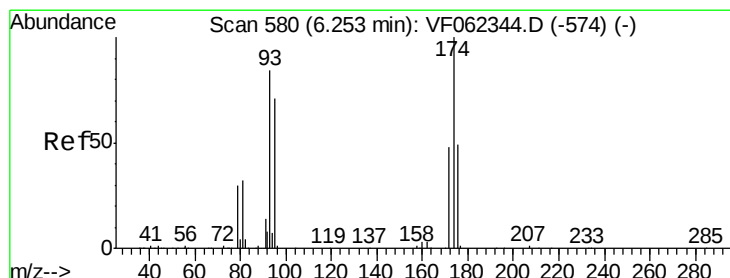
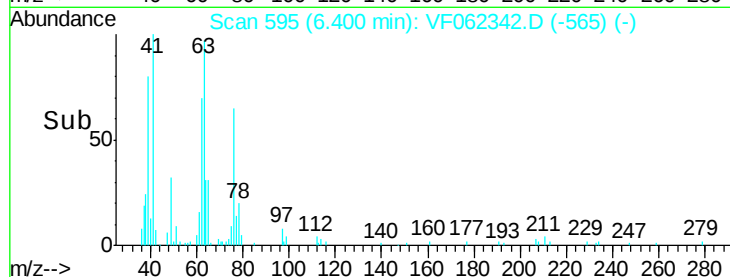
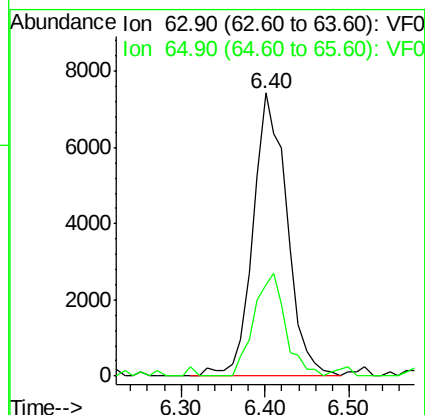
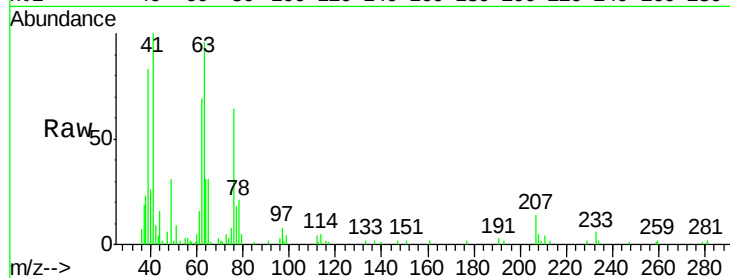
VSTDIC010

Tot Ion: 63 Resp: 20989

Ion Ratio Lower Upper

63 100

65 29.8 25.6 38.4



#46

Dibromomethane

Concen: 8.625 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

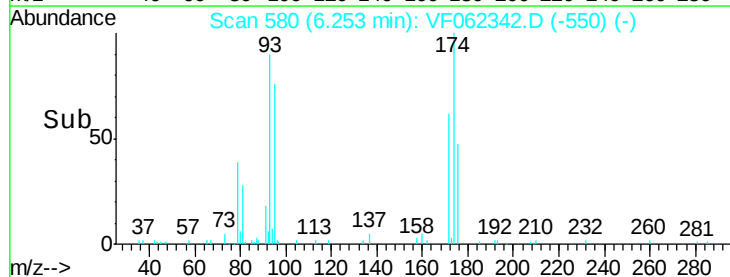
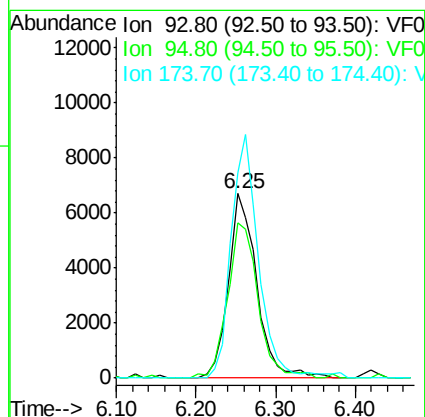
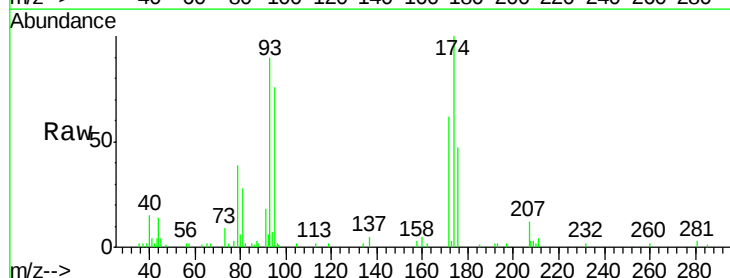
Tgt Ion: 93 Resp: 16855

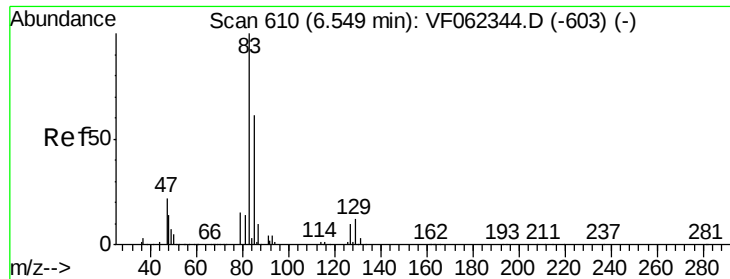
Ion Ratio Lower Upper

93 100

95 90.6 68.4 102.6

174 125.8 99.6 149.4





#47

Bromodichloromethane

Concen: 9.532 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

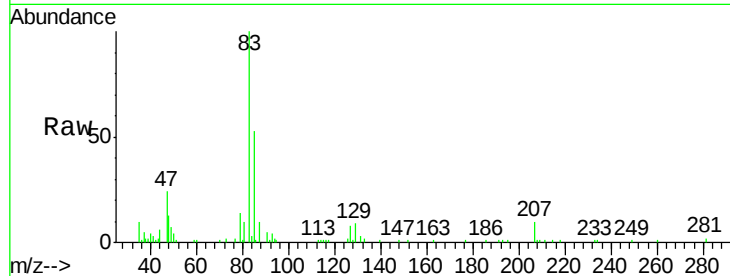
Tot Ion: 83 Resp: 44785

Ion Ratio Lower Upper

83 100

85 51.4 49.1 73.7

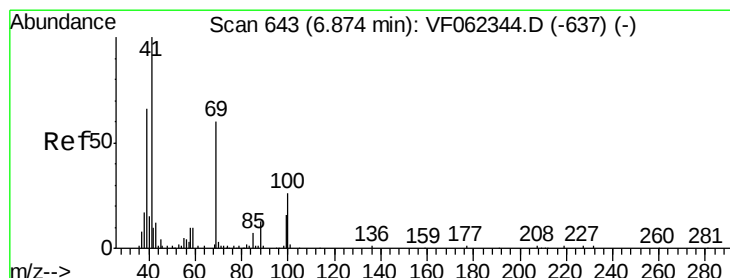
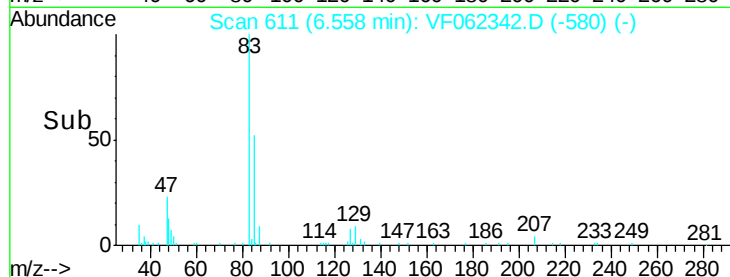
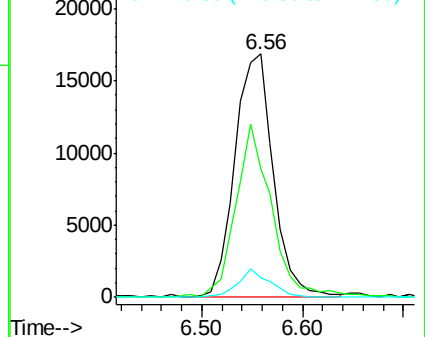
127 8.1 7.8 11.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 8.661 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

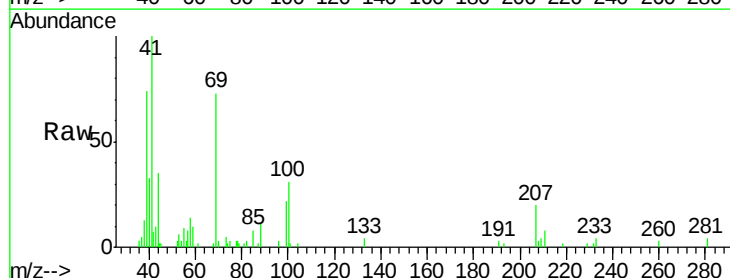
Tgt Ion: 41 Resp: 13367

Ion Ratio Lower Upper

41 100

69 71.5 48.6 72.8

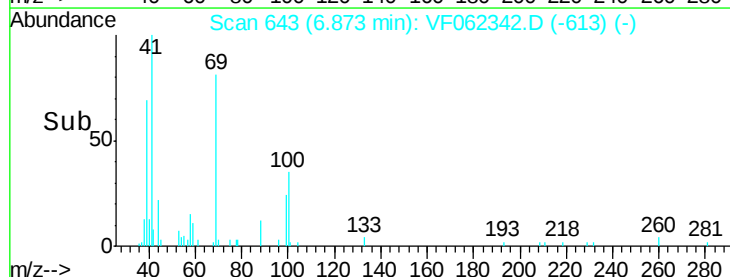
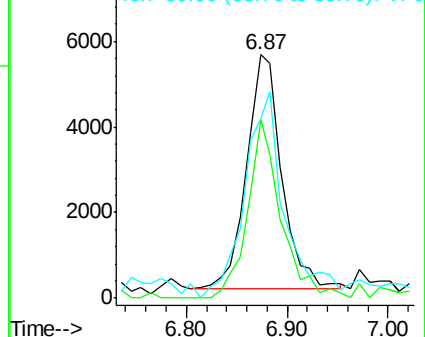
39 99.6 56.1 84.1#

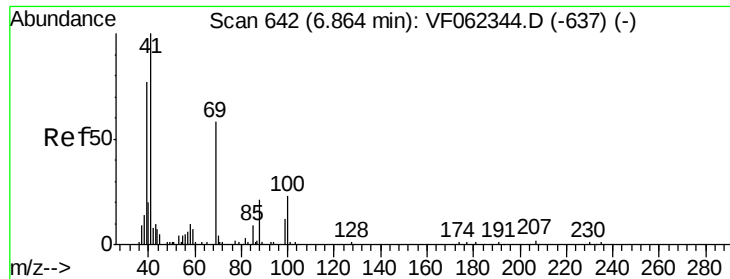


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

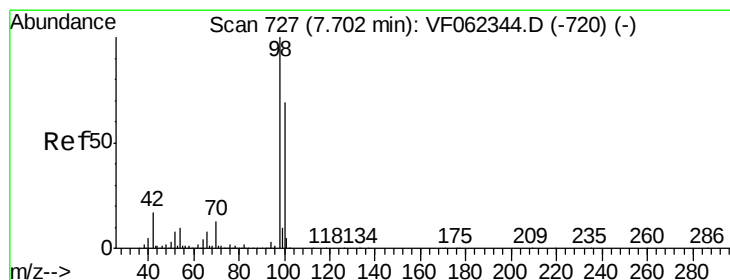
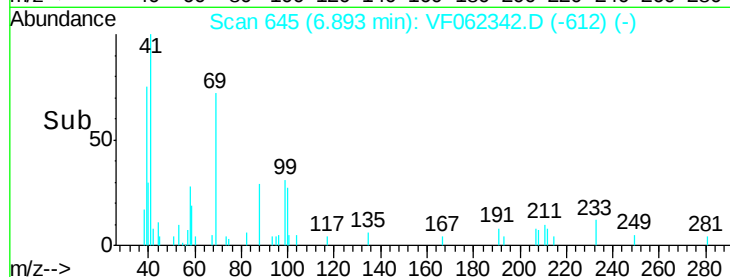
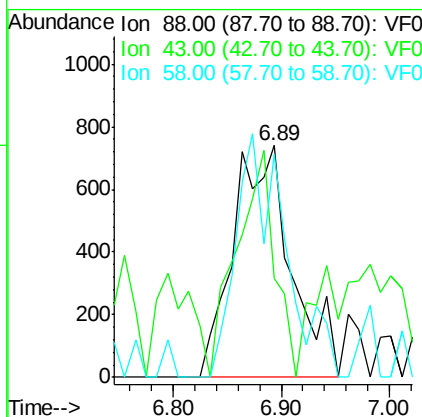
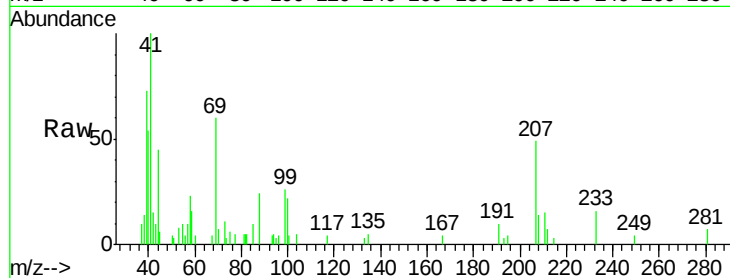




#49
1,4-Dioxane
Concen: 162.237 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.03 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

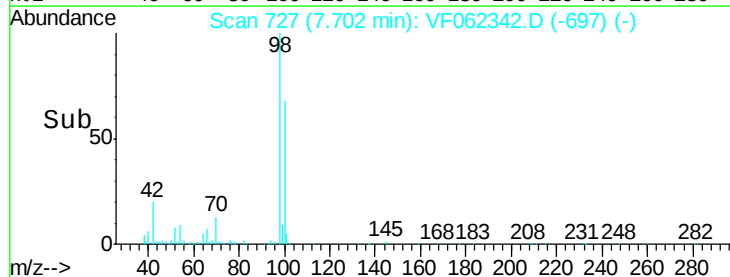
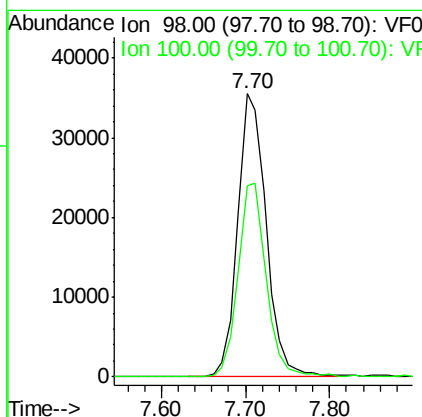
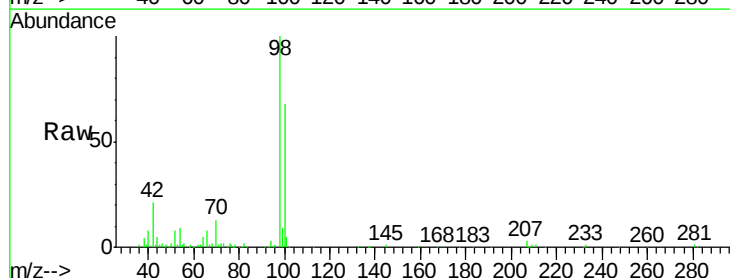
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

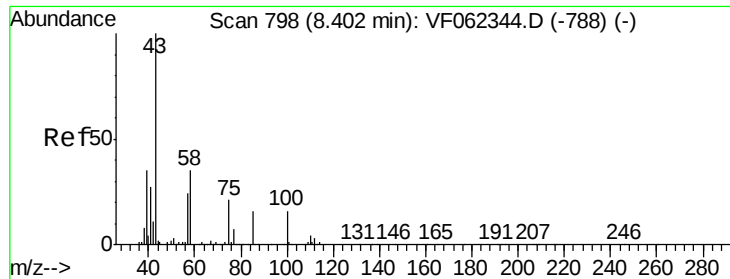
Tot Ion: 88 Resp: 2776
Ion Ratio Lower Upper
88 100
43 63.7 55.6 83.4
58 89.2 52.8 79.2#



#50
Toluene-d8
Concen: 8.193 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 98 Resp: 83855
Ion Ratio Lower Upper
98 100
100 67.9 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 46.095 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

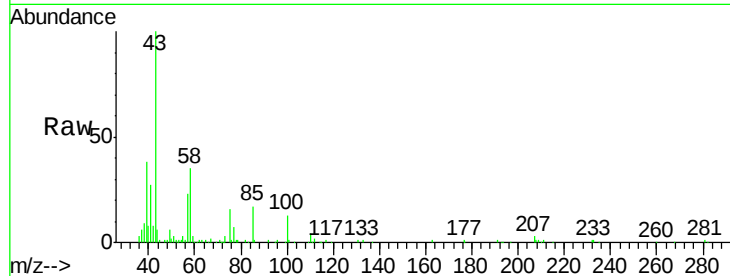
VSTDIC010

Tot Ion: 43 Resp: 75481

Ion Ratio Lower Upper

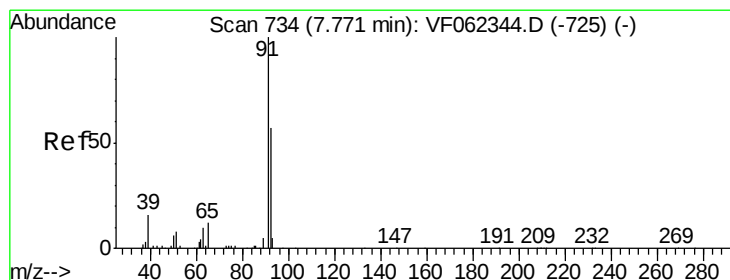
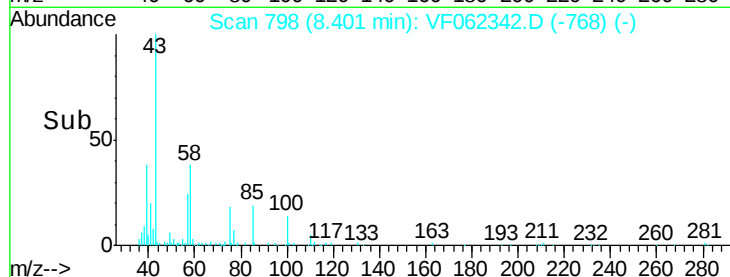
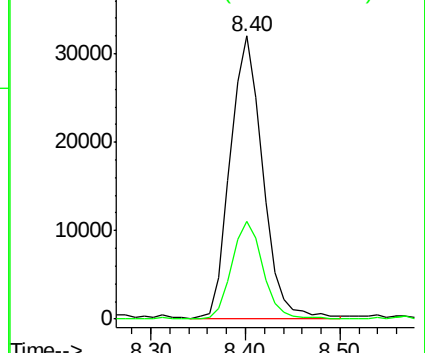
43 100

58 33.8 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 9.056 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF062342.D

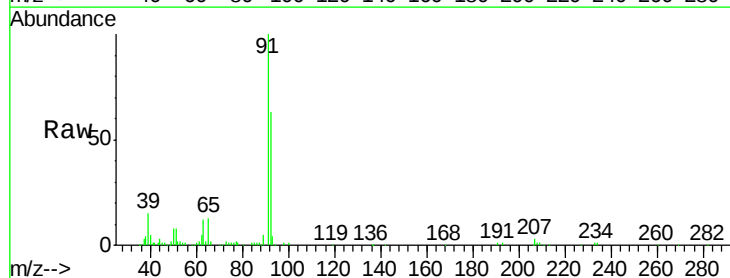
Acq: 6 May 2019 18:12

Tgt Ion: 92 Resp: 60479

Ion Ratio Lower Upper

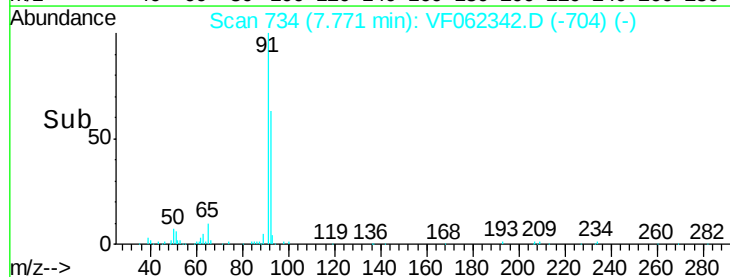
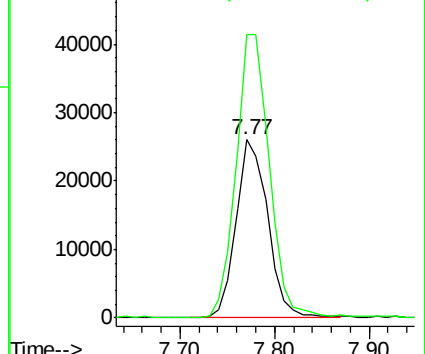
92 100

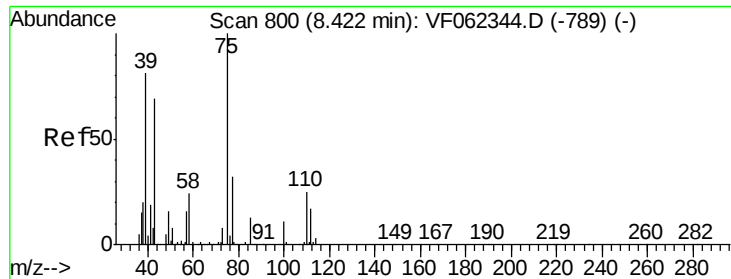
91 169.2 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 9.810 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

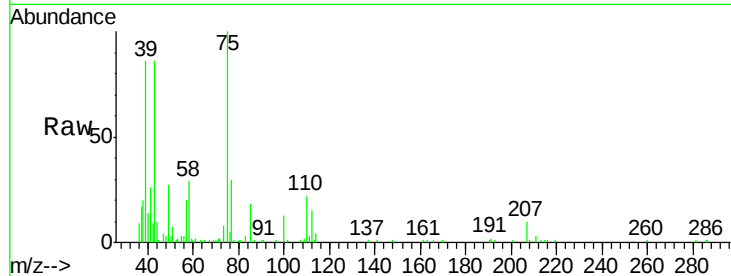
VSTDIC010

Tot Ion: 75 Resp: 34065

Ion Ratio Lower Upper

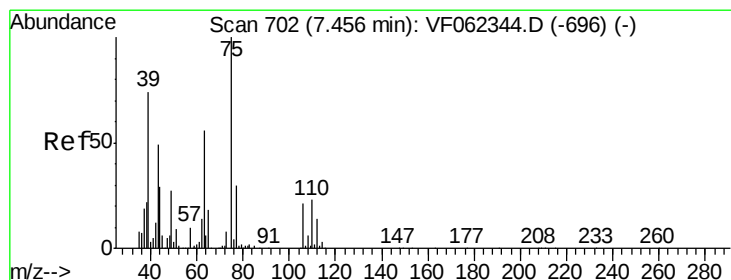
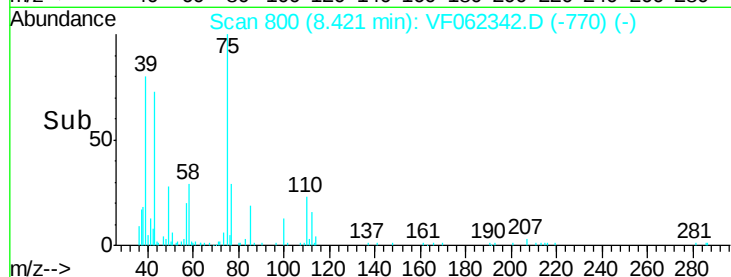
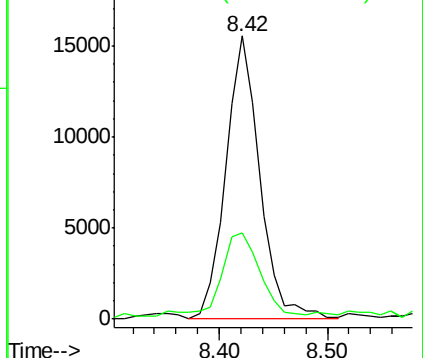
75 100

77 28.7 25.4 38.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



#54

cis-1,3-Dichloropropene

Concen: 9.458 ug/l

RT: 7.46 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

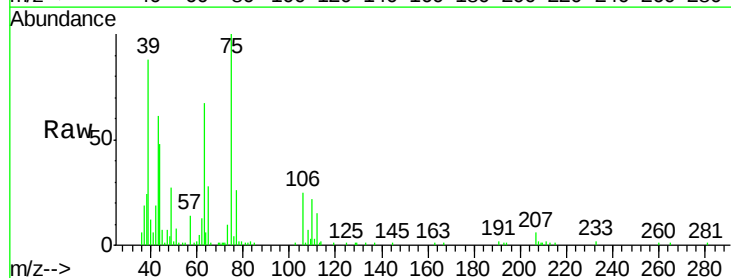
Tgt Ion: 75 Resp: 40977

Ion Ratio Lower Upper

75 100

77 24.8 24.0 36.0

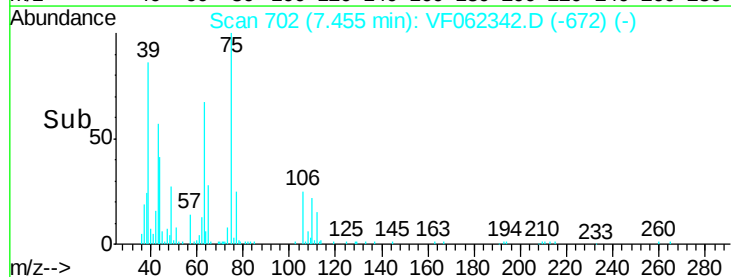
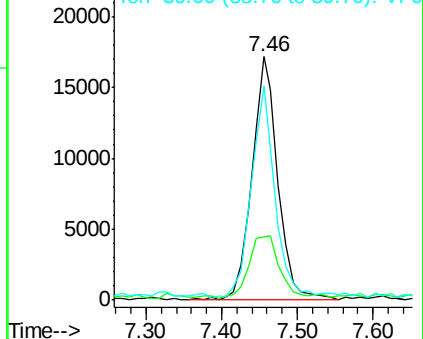
39 86.3 58.7 88.1



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 9.275 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 97 Resp: 18504

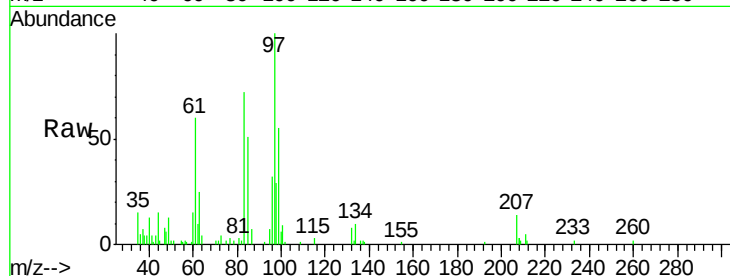
Ion Ratio Lower Upper

97 100

83 72.4 68.5 102.7

85 51.1 45.4 68.2

99 54.6 52.7 79.1

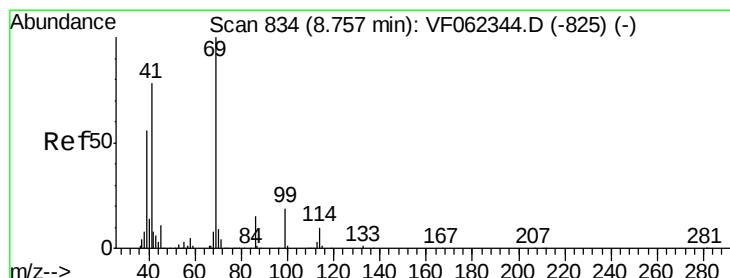
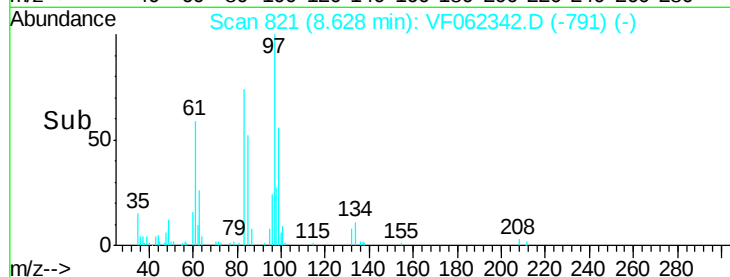
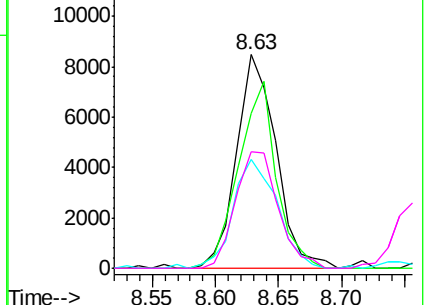


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 8.873 ug/l

RT: 8.75 min Scan# 833

Delta R.T. -0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

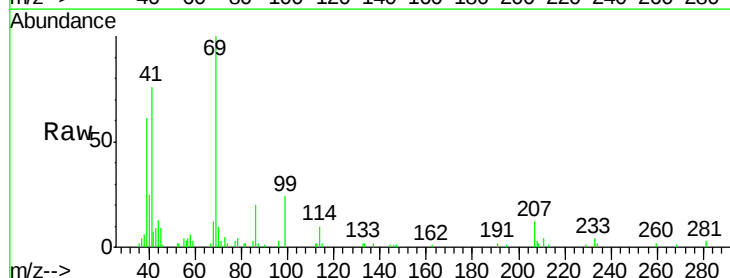
Tgt Ion: 69 Resp: 19081

Ion Ratio Lower Upper

69 100

41 86.0 66.3 99.5

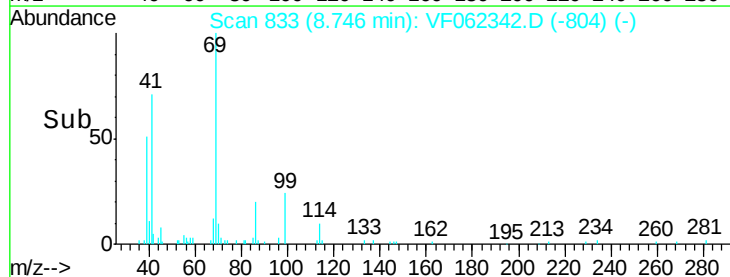
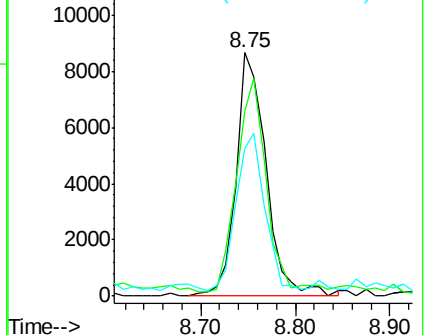
39 60.6 50.1 75.1

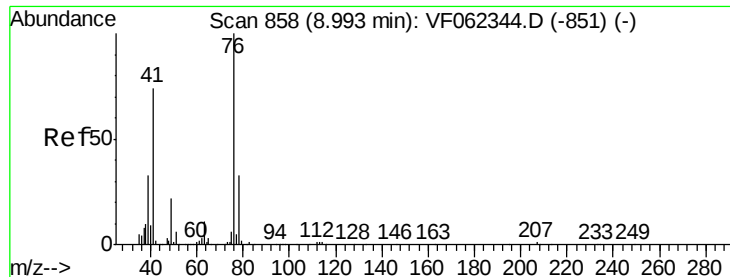


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 9.242 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

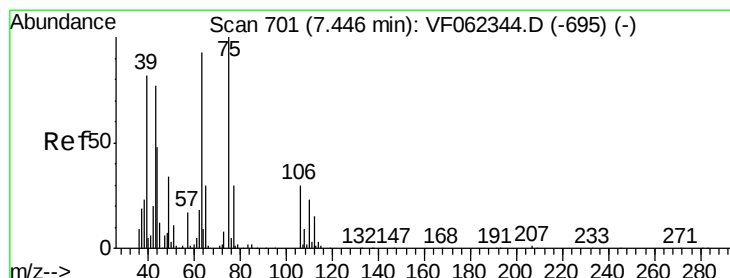
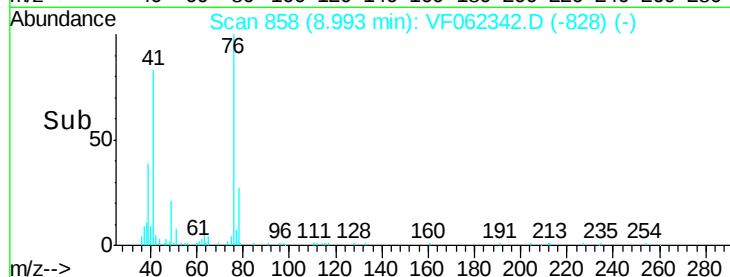
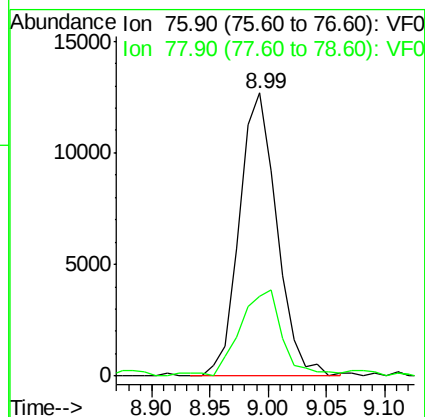
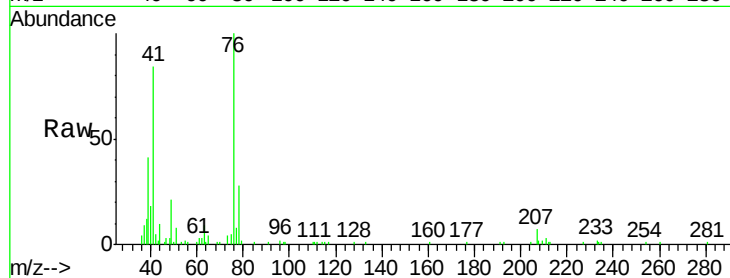
VSTDIC010

Tot Ion: 76 Resp: 28272

Ion Ratio Lower Upper

76 100

78 34.9 26.4 39.6



#58

2-Chloroethyl Vinyl ether

Concen: 49.555 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF062342.D

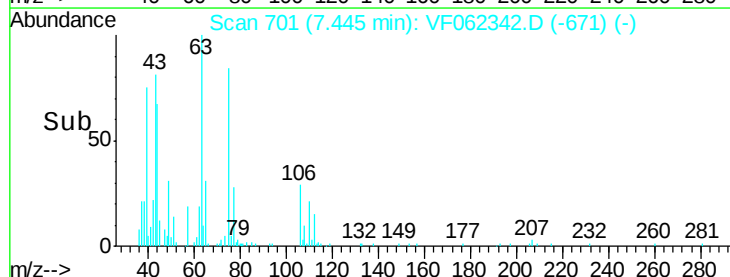
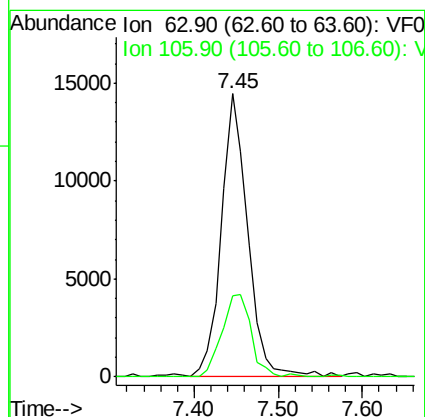
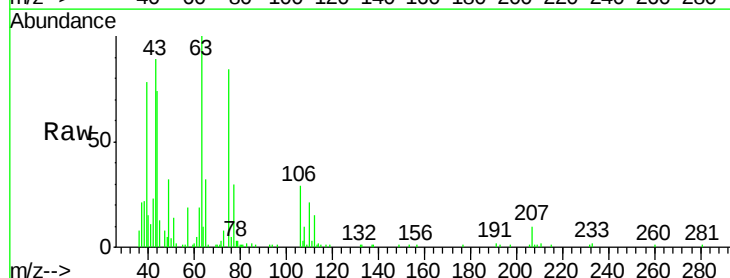
Acq: 6 May 2019 18:12

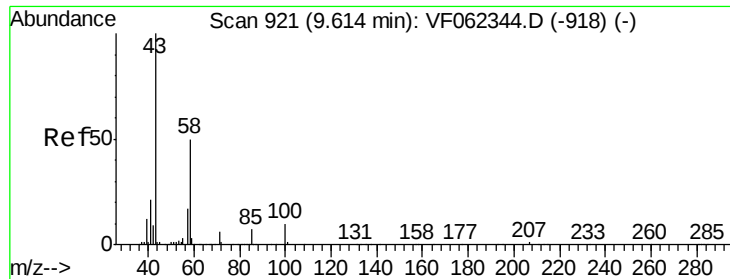
Tgt Ion: 63 Resp: 31565

Ion Ratio Lower Upper

63 100

106 31.9 25.8 38.8

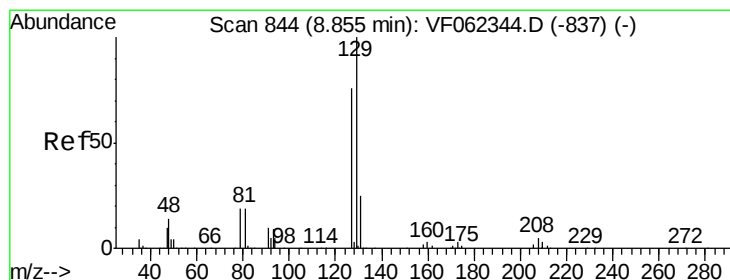
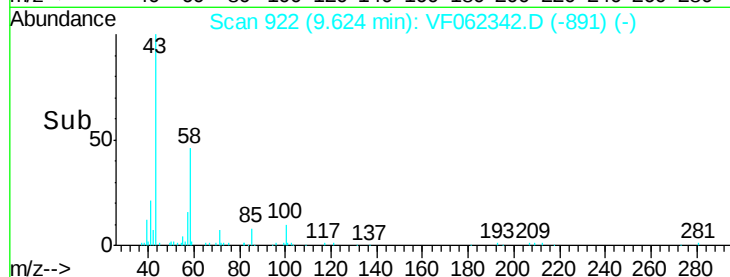
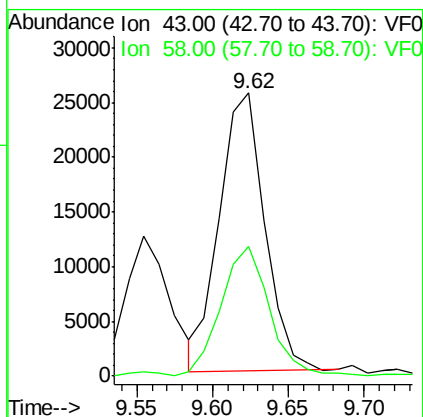
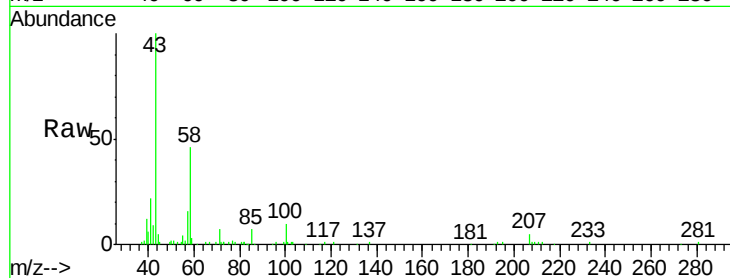




#59
2-Hexanone
Concen: 46.785 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

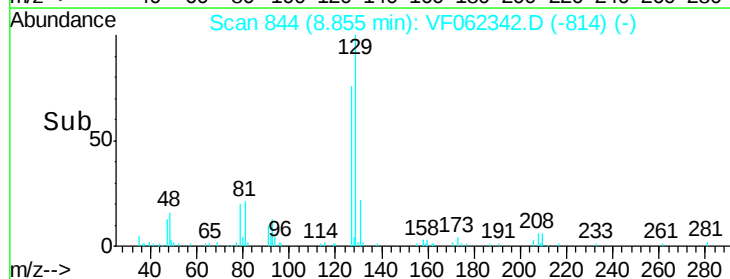
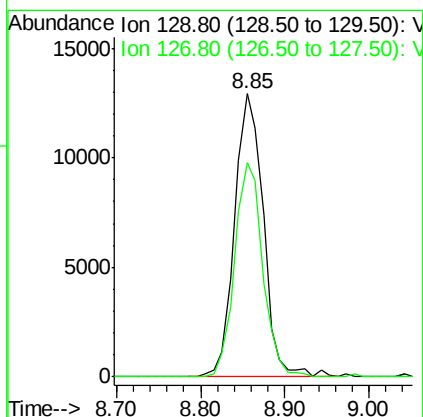
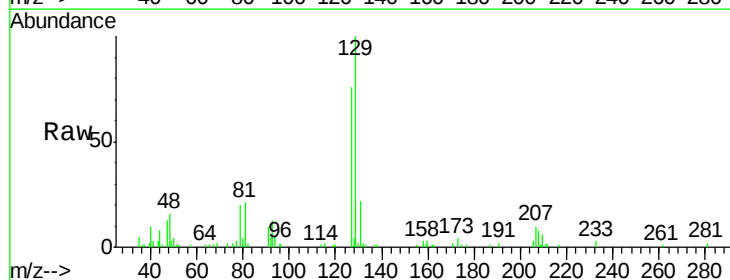
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

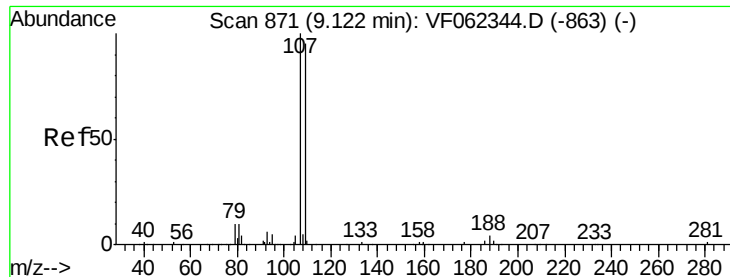
Tot Ion: 43 Resp: 52875
Ion Ratio Lower Upper
43 100
58 50.2 24.3 73.0



#60
Dibromochloromethane
Concen: 9.415 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion: 129 Resp: 30729
Ion Ratio Lower Upper
129 100
127 73.8 38.5 115.3





#61

1,2-Dibromoethane

Concen: 9.241 ug/l

RT: 9.13 min Scan# 872

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

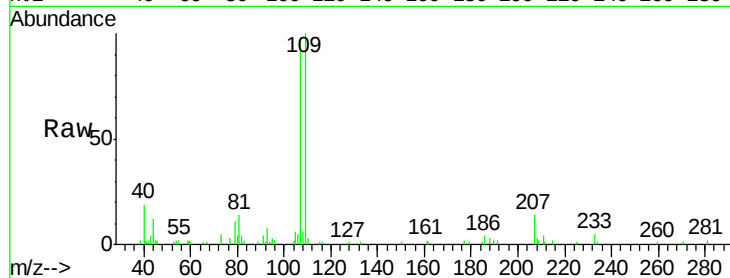
VSTDIC010

Tot Ion:107 Resp: 21521

Ion Ratio Lower Upper

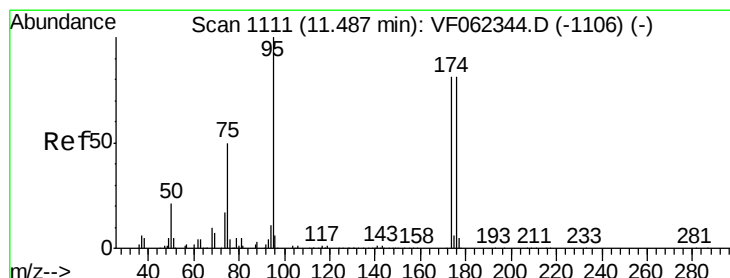
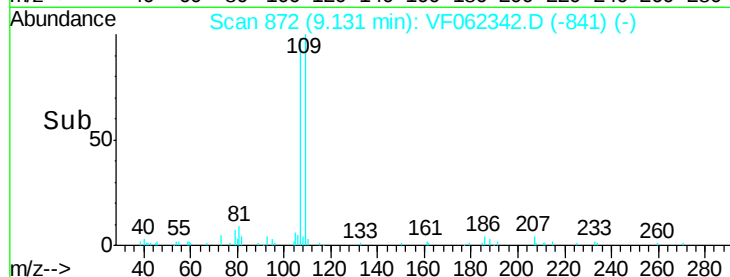
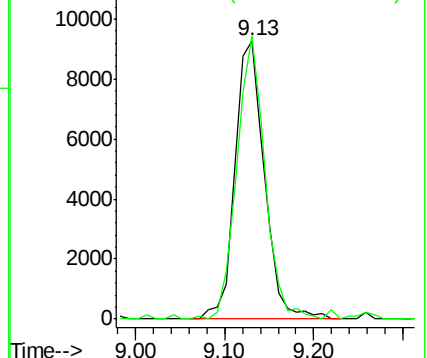
107 100

109 96.4 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 9.829 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

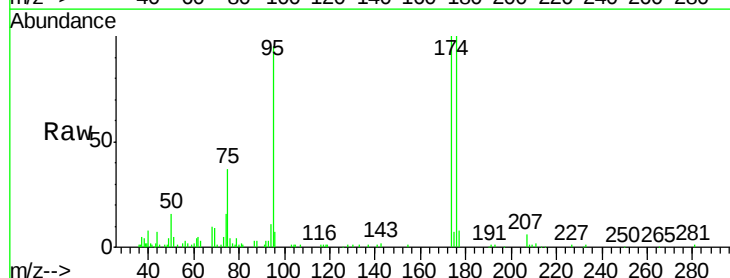
Tgt Ion: 95 Resp: 41566

Ion Ratio Lower Upper

95 100

174 94.4 0.0 191.8

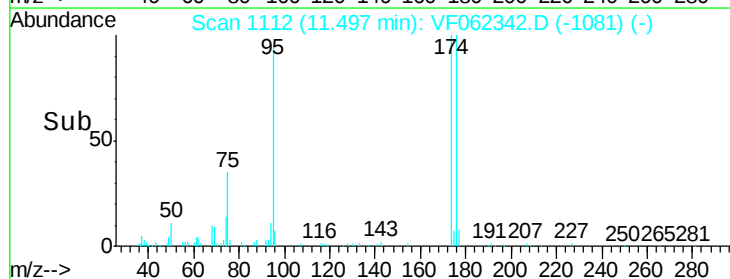
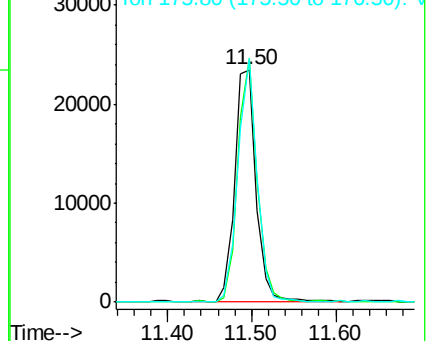
176 93.7 0.0 193.2

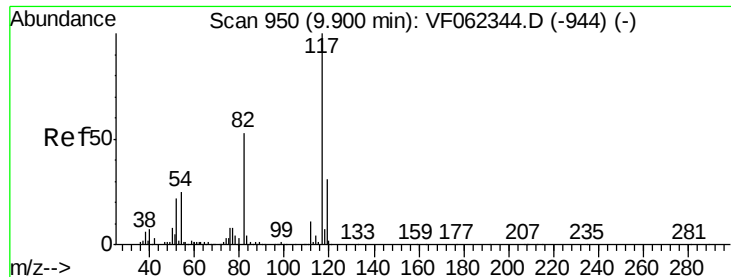


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. 0.01 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

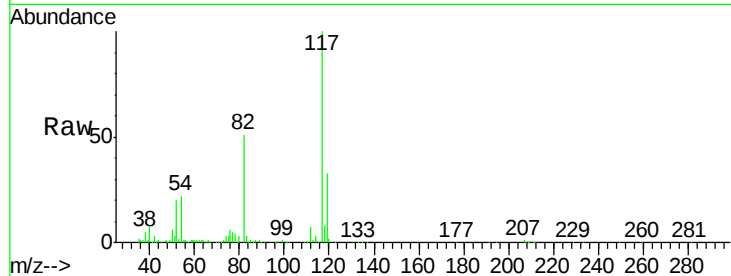
Tot Ion:117 Resp: 383756

Ion Ratio Lower Upper

117 100

82 50.7 42.2 63.2

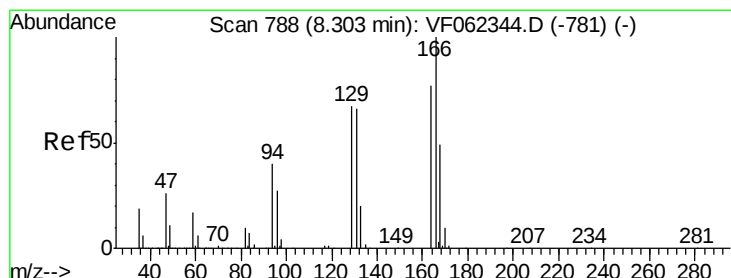
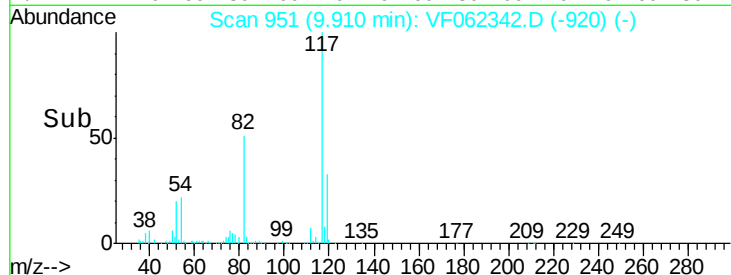
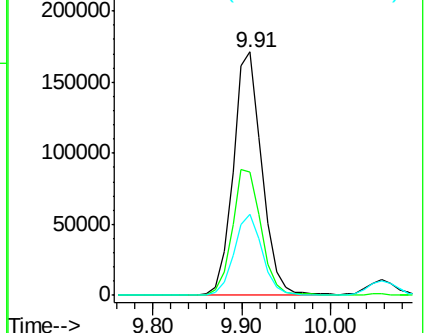
119 33.3 25.0 37.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 9.011 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Tgt Ion:164 Resp: 34969

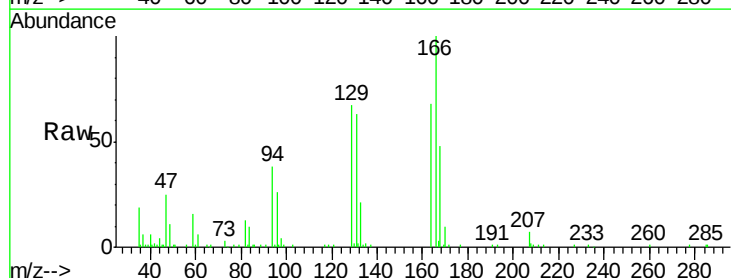
Ion Ratio Lower Upper

164 100

166 147.8 104.2 156.4

129 98.9 69.6 104.4

131 92.5 68.8 103.2

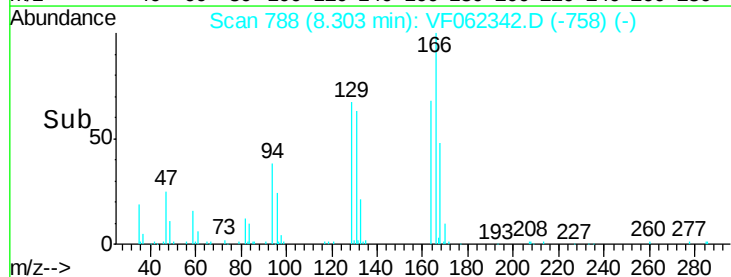
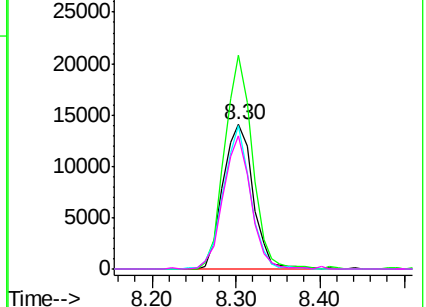


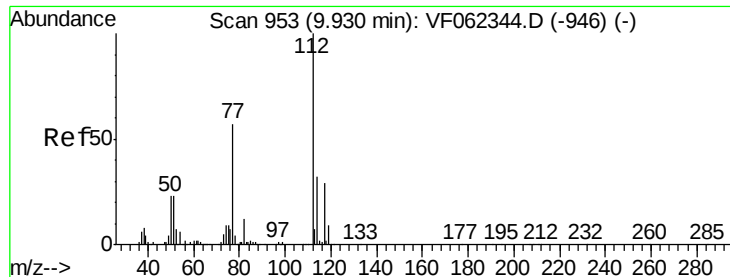
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 8.345 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

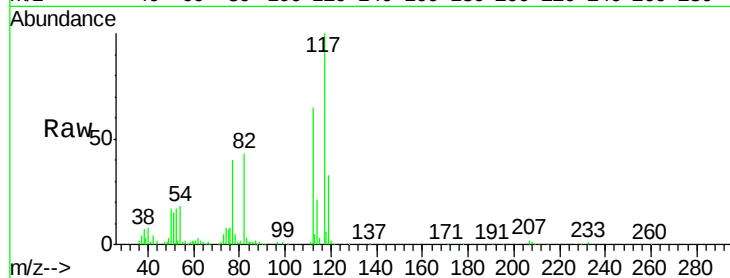
VSTDIC010

Tot Ion:112 Resp: 69841

Ion Ratio Lower Upper

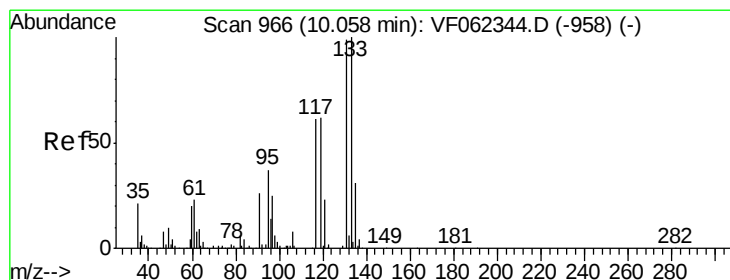
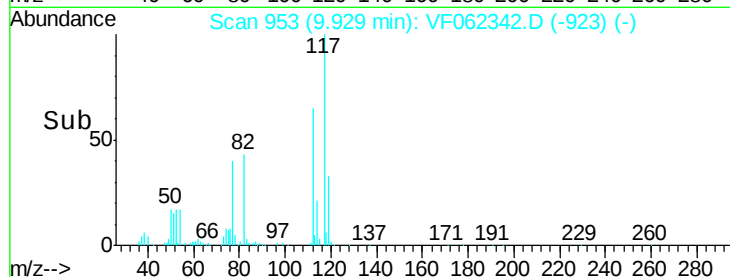
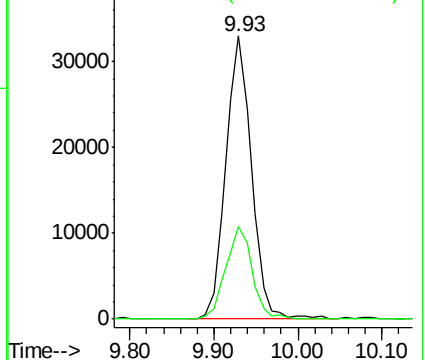
112 100

114 32.8 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 8.652 ug/l

RT: 10.06 min Scan# 966

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

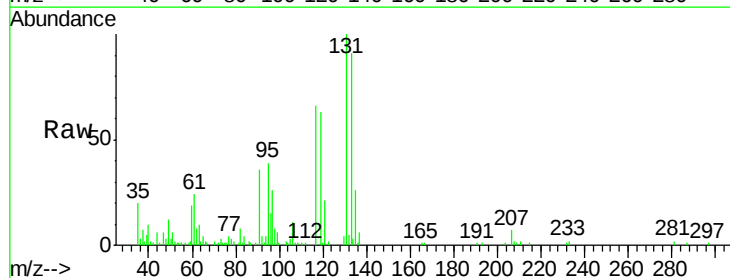
Tgt Ion:131 Resp: 34961

Ion Ratio Lower Upper

131 100

133 99.2 50.2 150.7

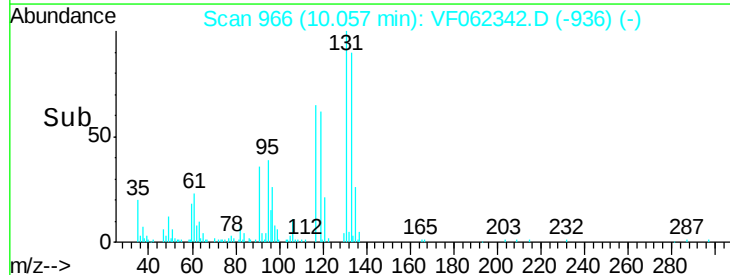
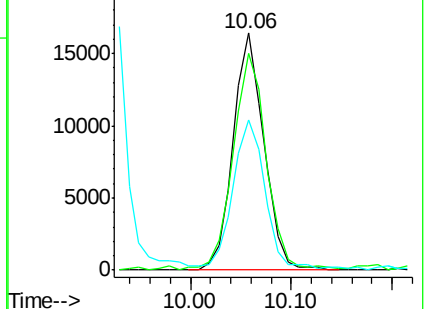
119 67.6 31.6 95.0

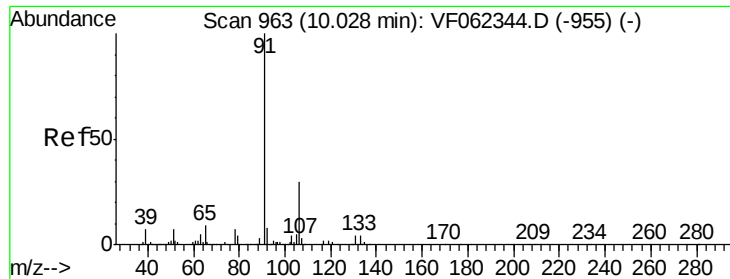


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 8.974 ug/l

RT: 10.03 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

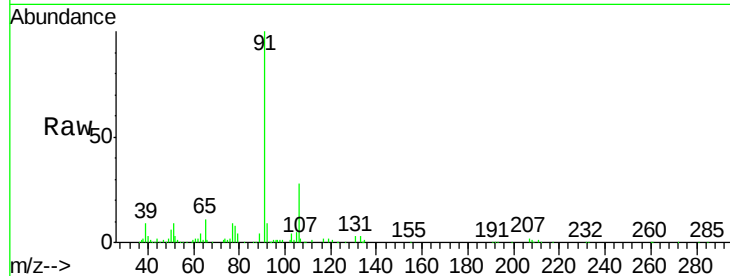
VSTDIC010

Tot Ion: 91 Resp: 130351

Ion Ratio Lower Upper

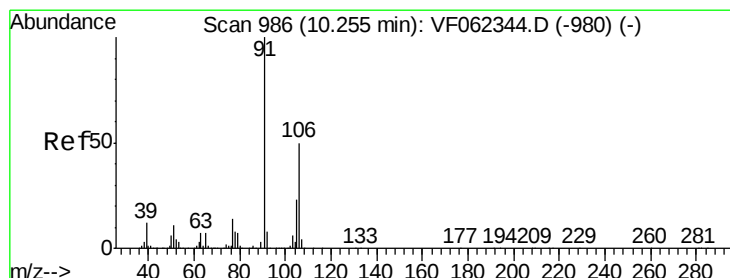
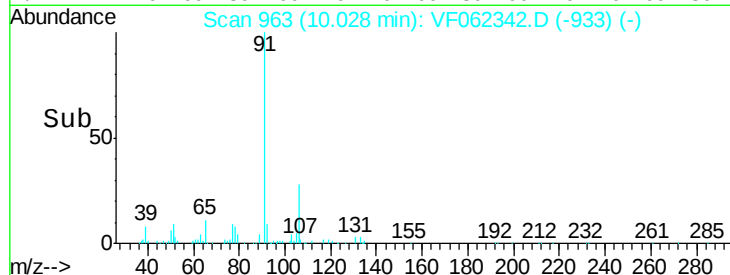
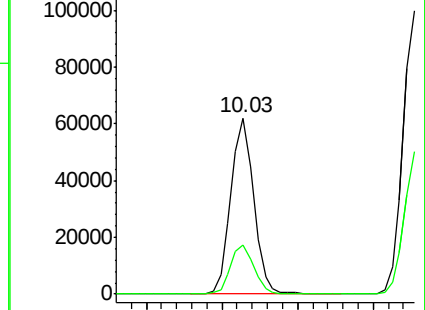
91 100

106 28.2 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 18.202 ug/l

RT: 10.25 min Scan# 986

Delta R.T. -0.00 min

Lab File: VF062342.D

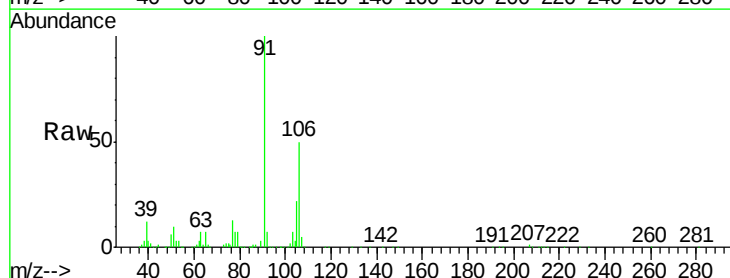
Acq: 6 May 2019 18:12

Tgt Ion:106 Resp: 97156

Ion Ratio Lower Upper

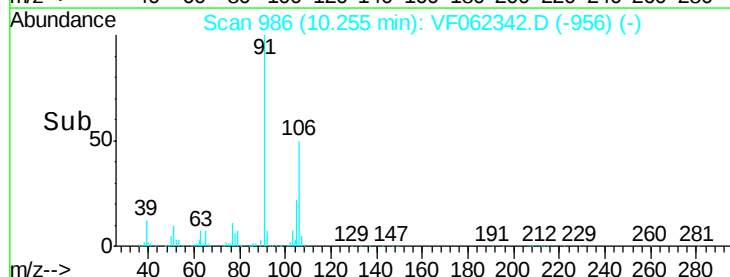
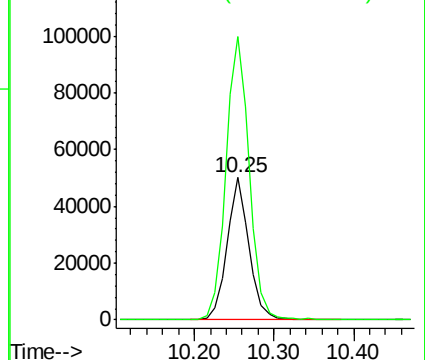
106 100

91 211.6 167.4 251.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

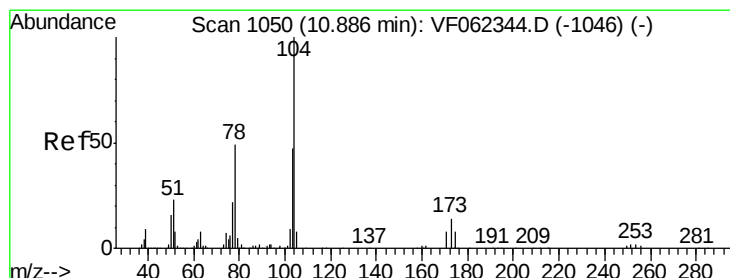
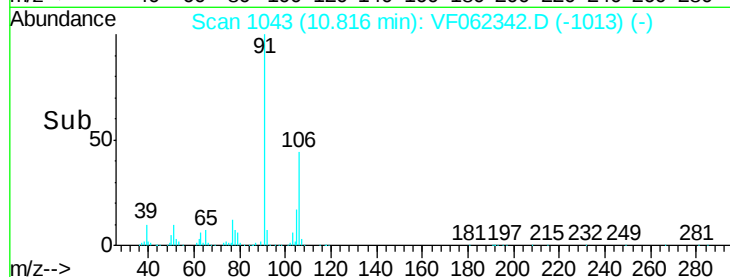
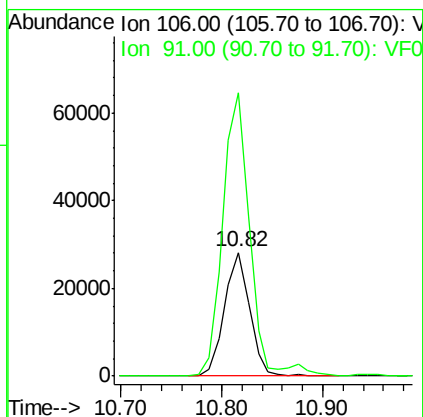
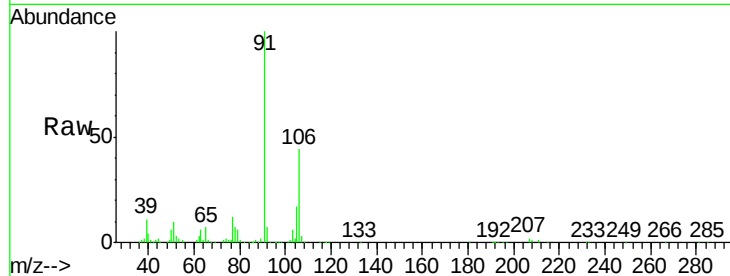




#69
o-Xylene
Concen: 8.259 ug/l
RT: 10.82 min Scan# 1043
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

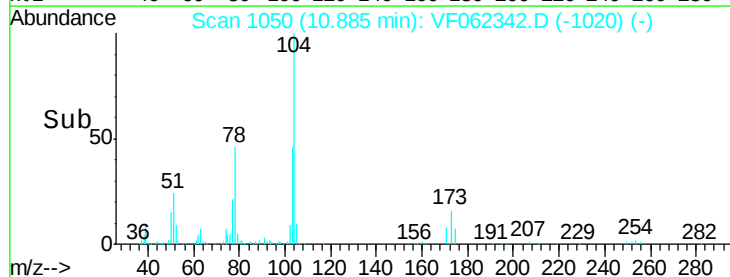
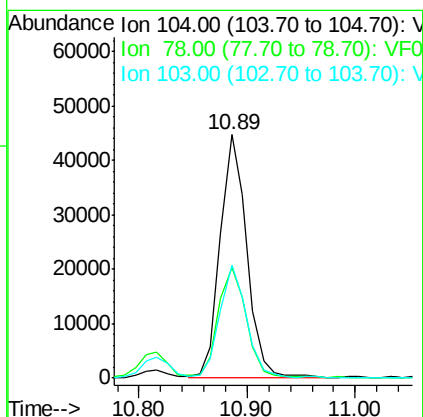
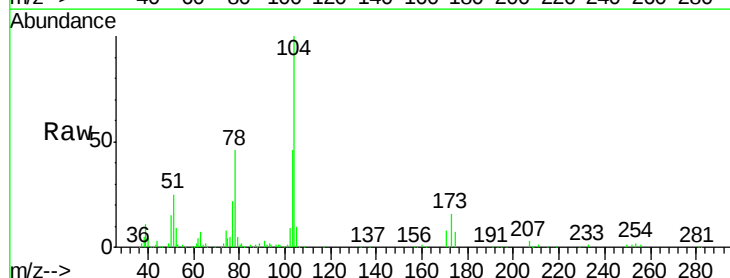
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

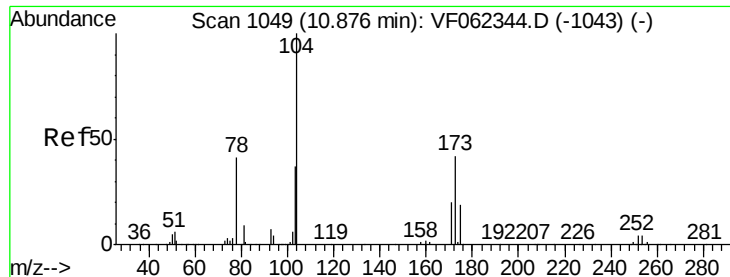
Tot Ion:106 Resp: 49344
Ion Ratio Lower Upper
106 100
91 236.5 111.3 333.8



#70
Styrene
Concen: 8.795 ug/l
RT: 10.89 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion:104 Resp: 76208
Ion Ratio Lower Upper
104 100
78 49.6 39.5 59.3
103 46.2 38.4 57.6





#71

Bromoform

Concen: 8.101 ug/l

RT: 10.88 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

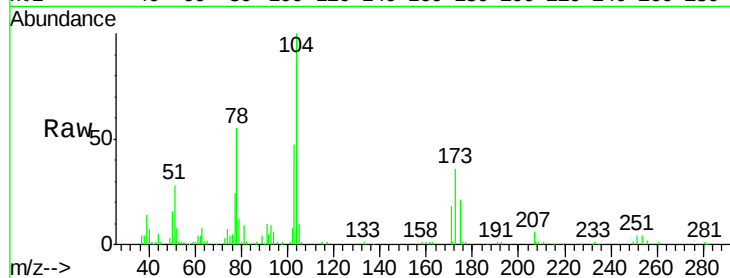
Tot Ion:173 Resp: 18281

Ion Ratio Lower Upper

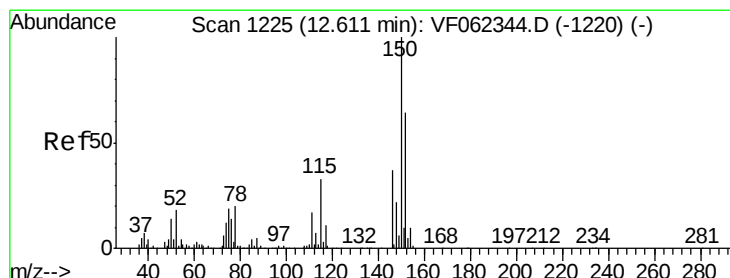
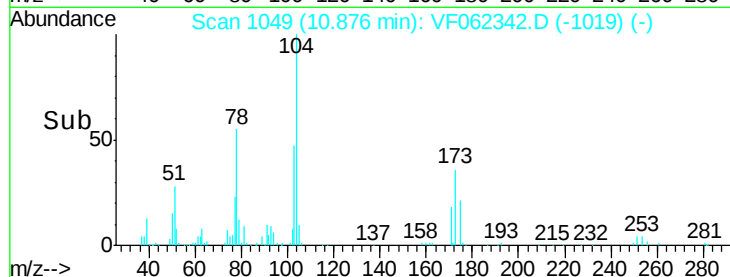
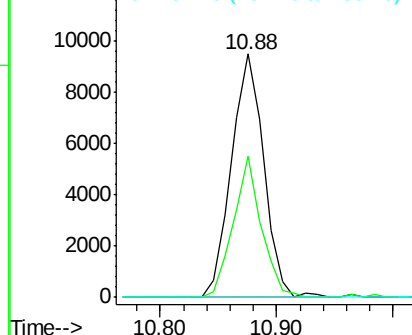
173 100

175 50.3 23.8 71.2

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

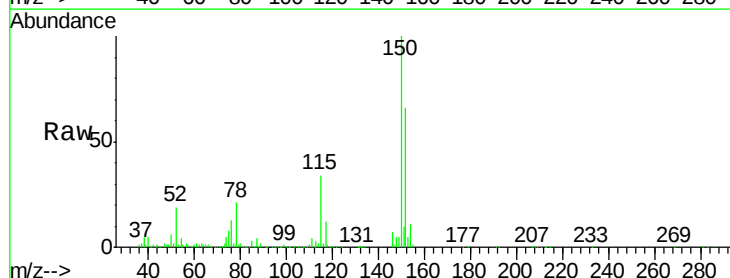
Tgt Ion:152 Resp: 236712

Ion Ratio Lower Upper

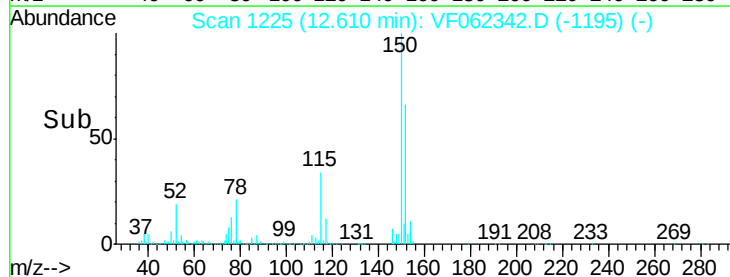
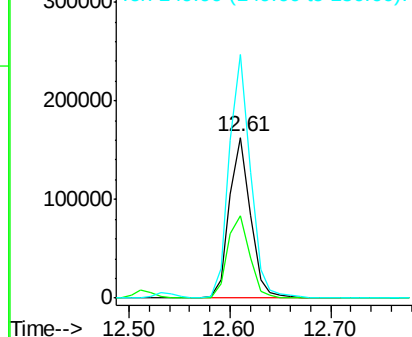
152 100

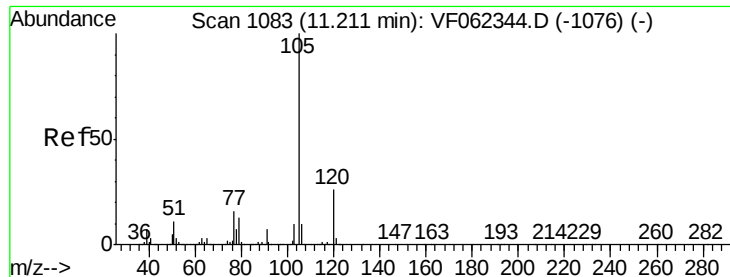
115 54.5 26.4 79.2

150 153.6 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 8.027 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

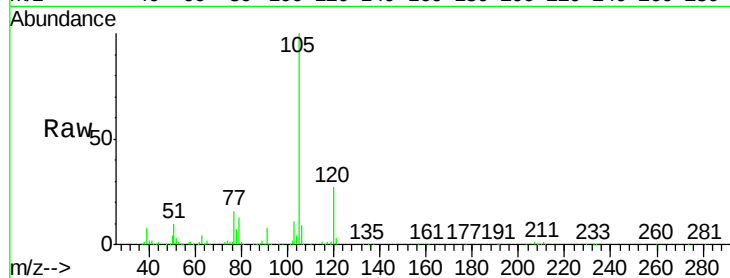
VSTDIC010

Tot Ion:105 Resp: 153988

Ion Ratio Lower Upper

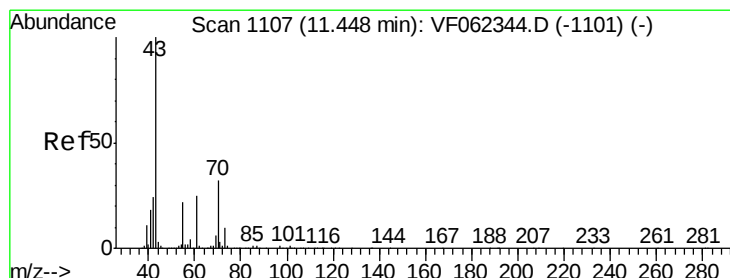
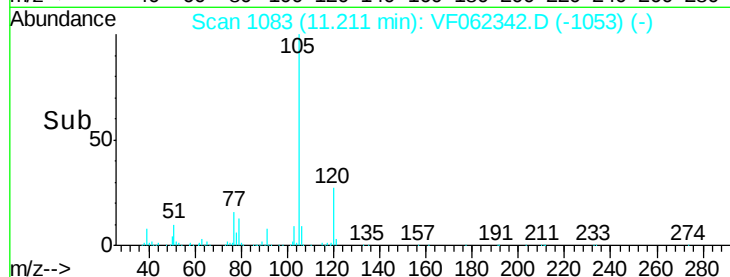
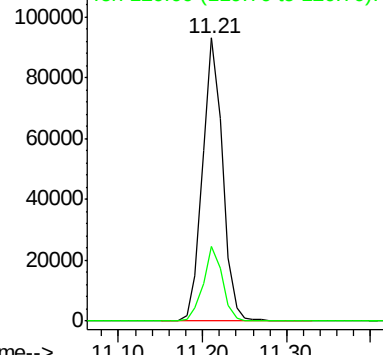
105 100

120 25.4 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 7.925 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Tgt Ion: 43 Resp: 33502

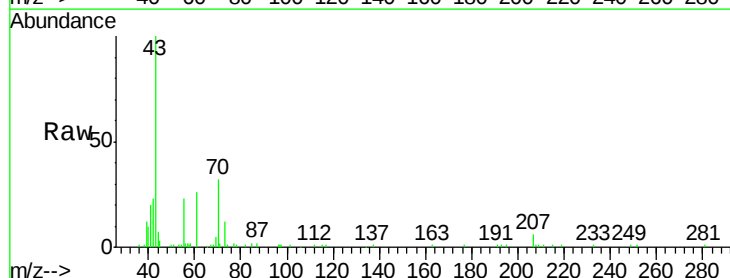
Ion Ratio Lower Upper

43 100

70 34.0 26.5 39.7

55 23.4 17.8 26.6

61 24.8 20.2 30.2

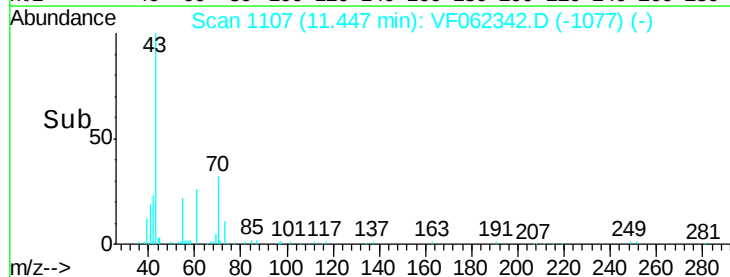
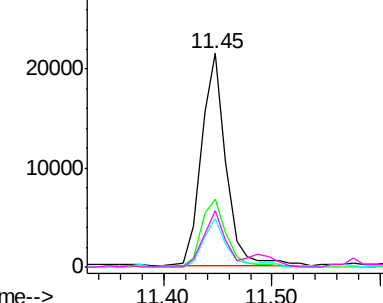


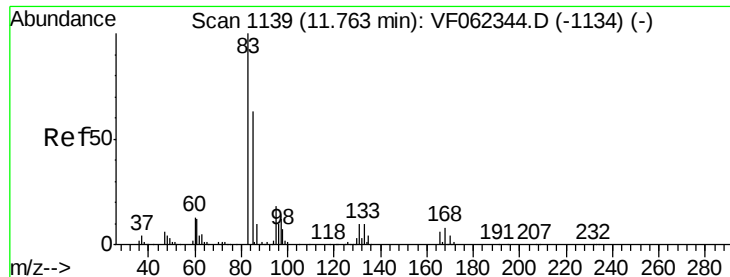
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 7.915 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

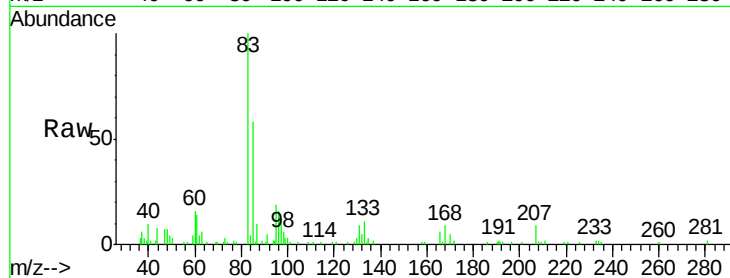
MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 83 Resp: 23947

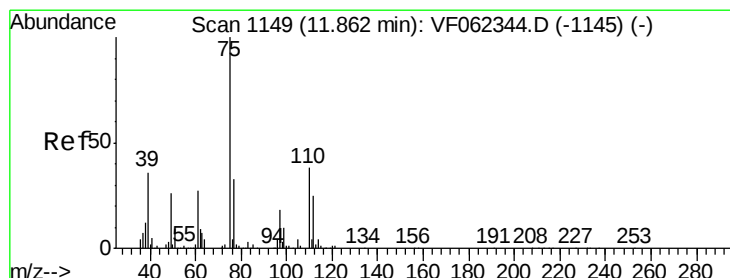
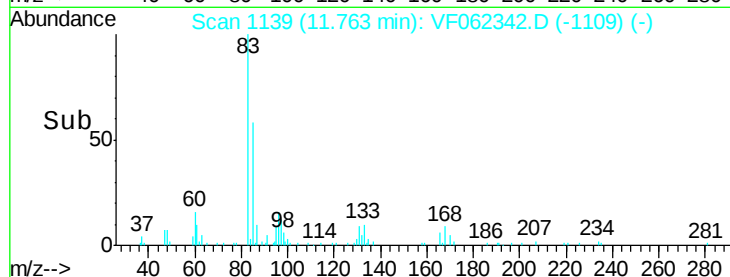
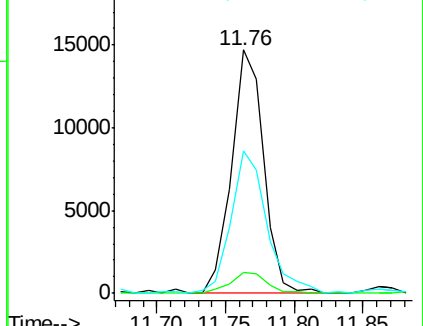
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.8	17.4
85	66.0	35.3	105.7



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): VF0

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 7.874 ug/l

RT: 11.86 min Scan# 1149

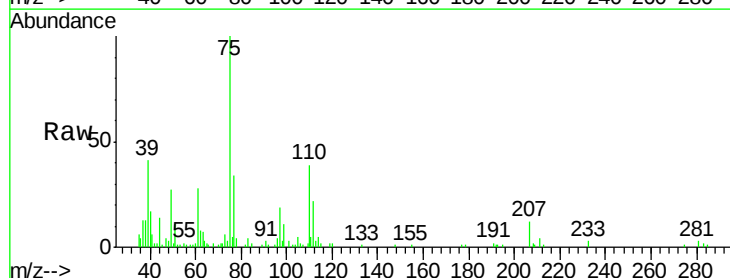
Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

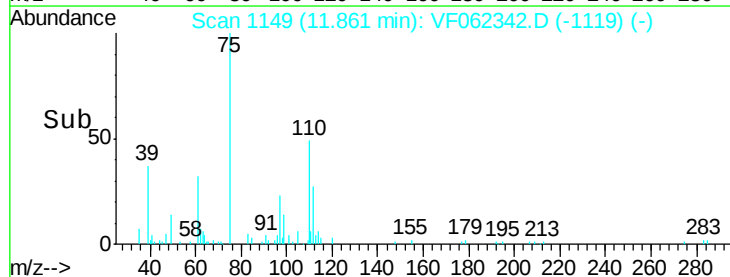
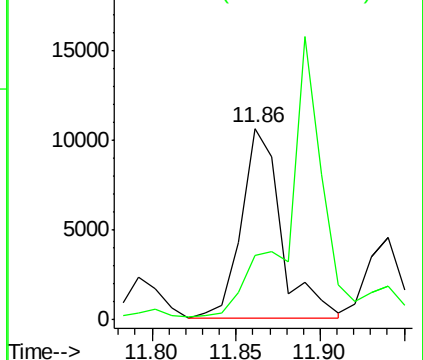
Tgt Ion: 75 Resp: 17356

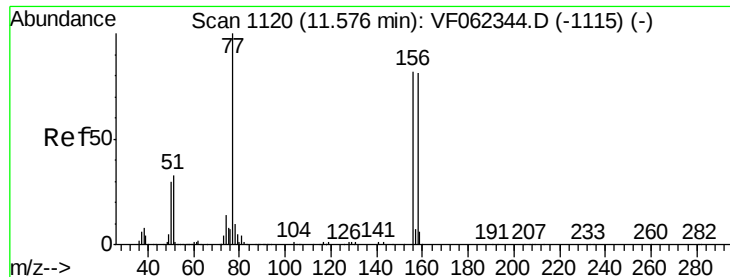
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 8.263 ug/l

RT: 11.58 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

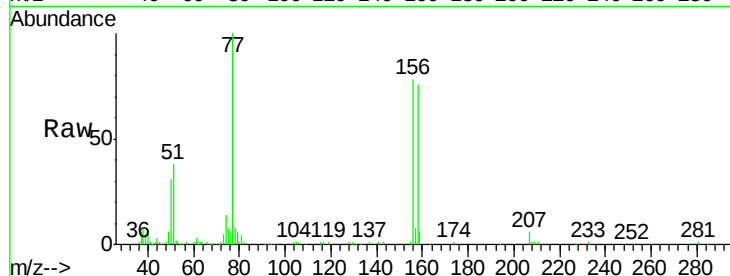
Tot Ion:156 Resp: 40083

Ion Ratio Lower Upper

156 100

77 128.0 64.8 194.3

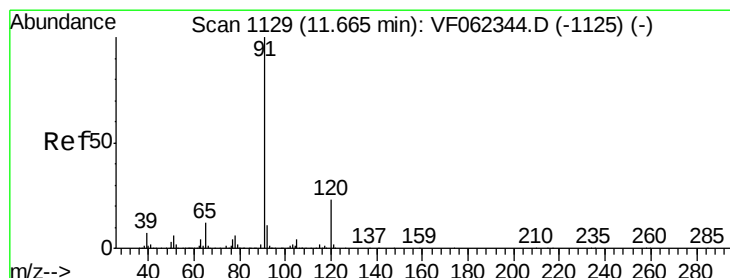
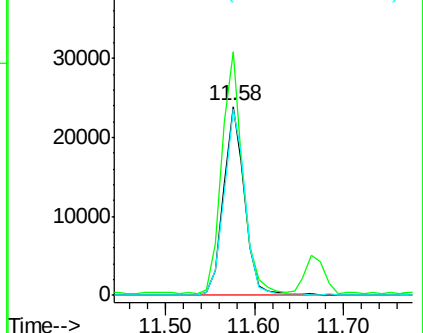
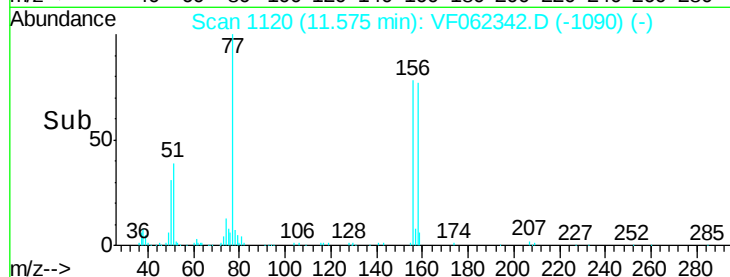
158 99.0 49.1 147.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 8.460 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VF062342.D

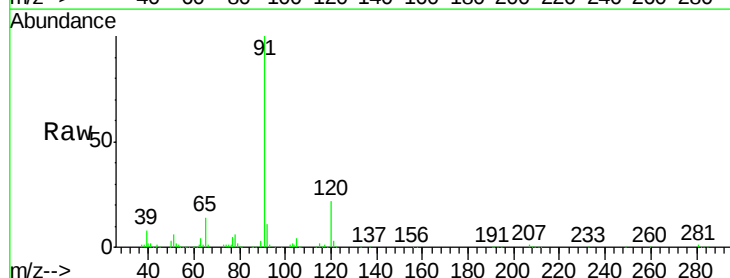
Acq: 6 May 2019 18:12

Tgt Ion: 91 Resp: 169017

Ion Ratio Lower Upper

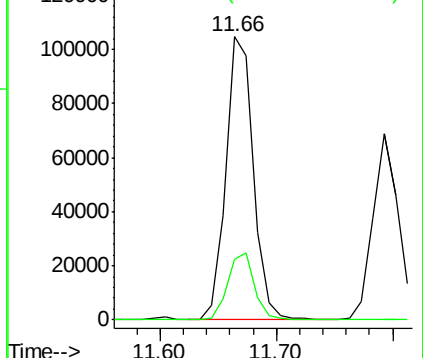
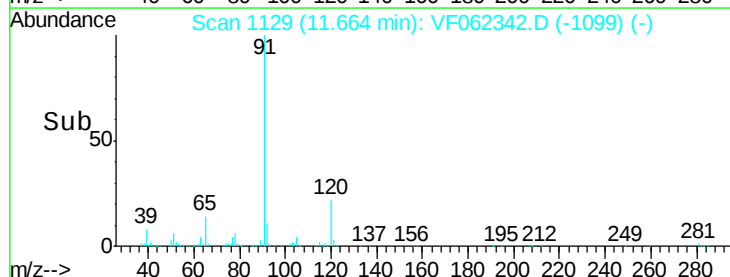
91 100

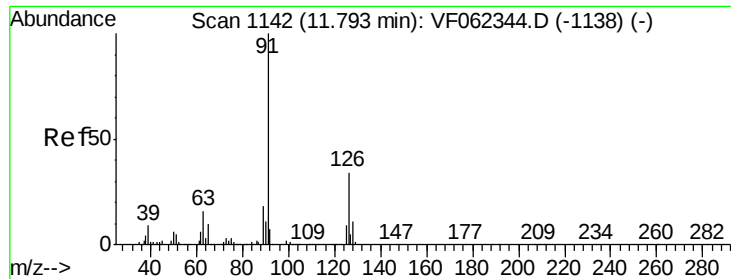
120 23.3 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 8.436 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

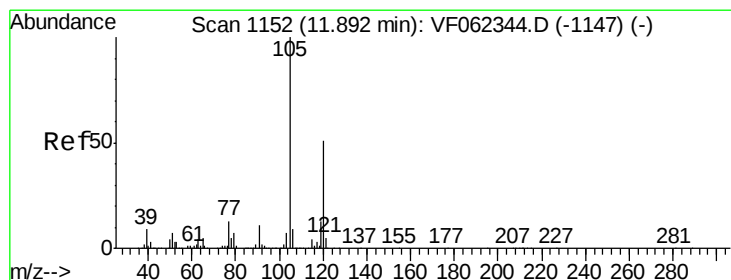
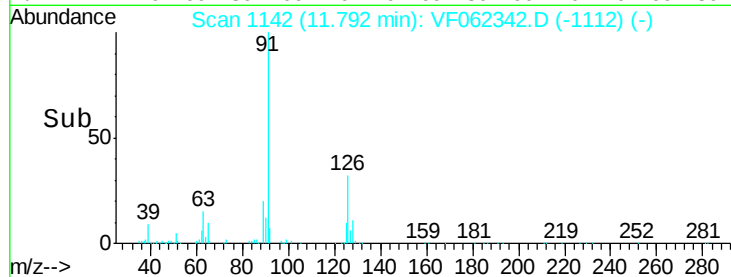
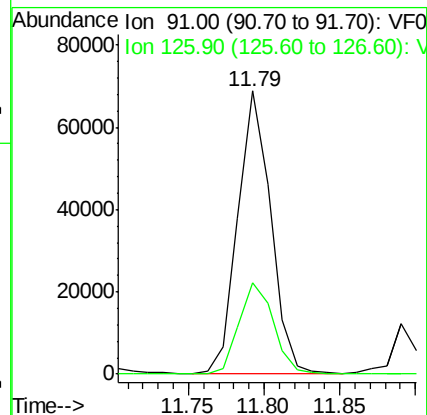
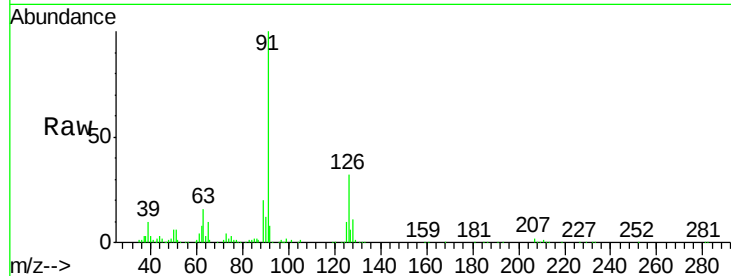
VSTDIC010

Tot Ion: 91 Resp: 103578

Ion Ratio Lower Upper

91 100

126 34.2 17.8 53.4



#80

1,3,5-Trimethylbenzene

Concen: 8.707 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF062342.D

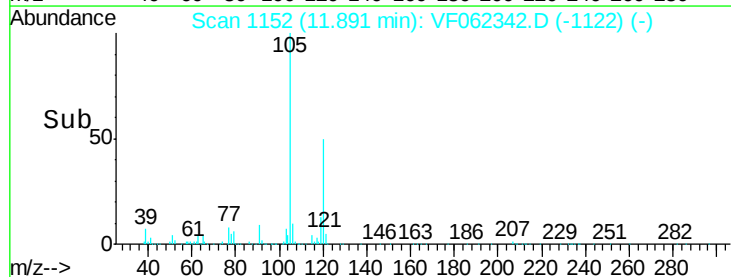
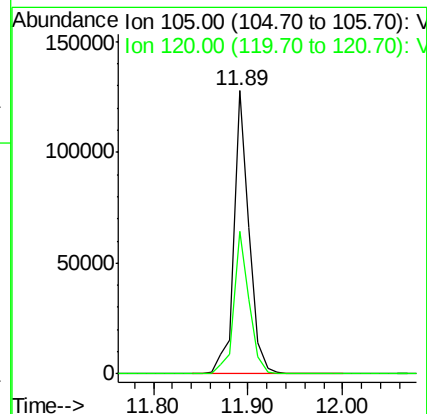
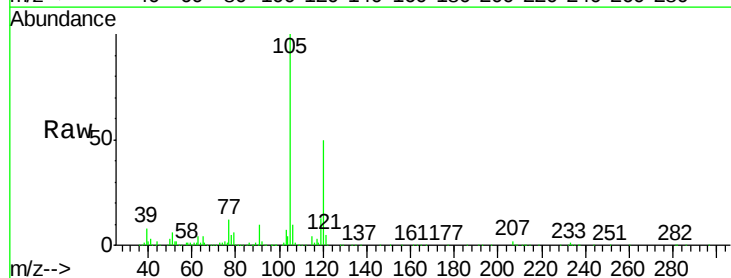
Acq: 6 May 2019 18:12

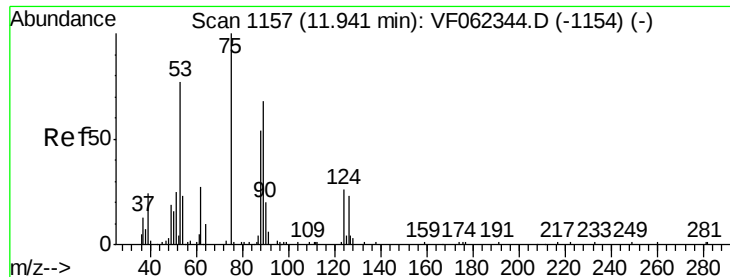
Tgt Ion:105 Resp: 140595

Ion Ratio Lower Upper

105 100

120 51.0 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 6.890 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

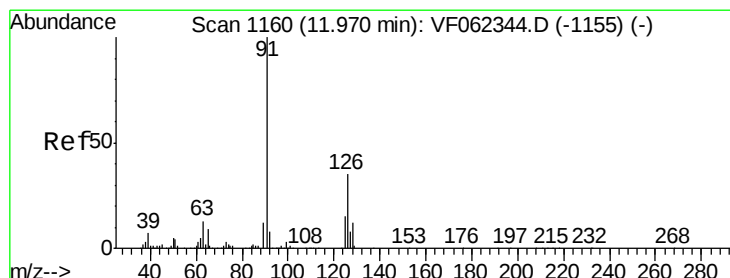
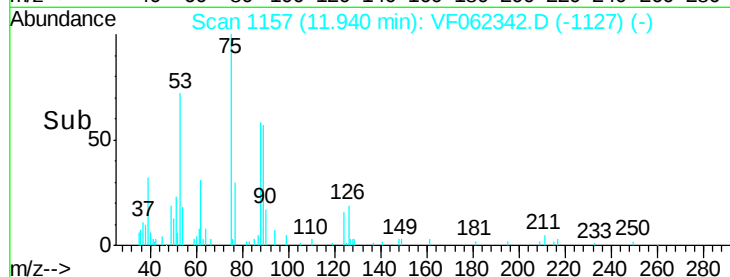
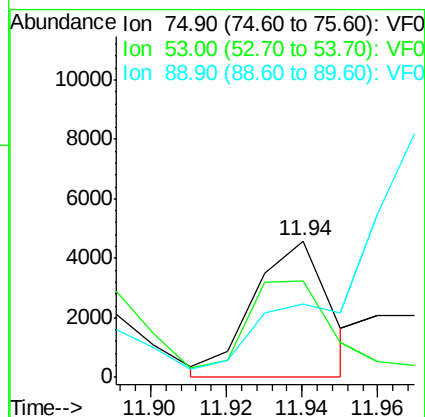
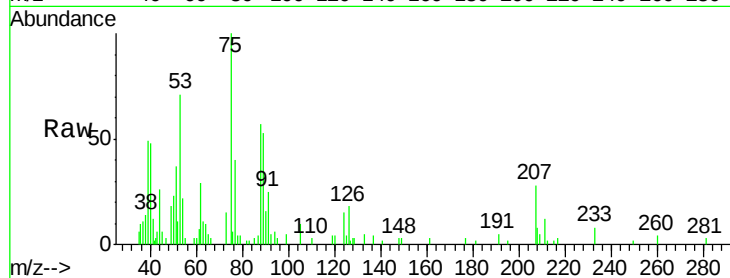
Tot Ion: 75 Resp: 6265

Ion Ratio Lower Upper

75 100

53 91.1 71.9 107.9

89 0.0 0.0 0.0



#82

4-Chlorotoluene

Concen: 8.171 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VF062342.D

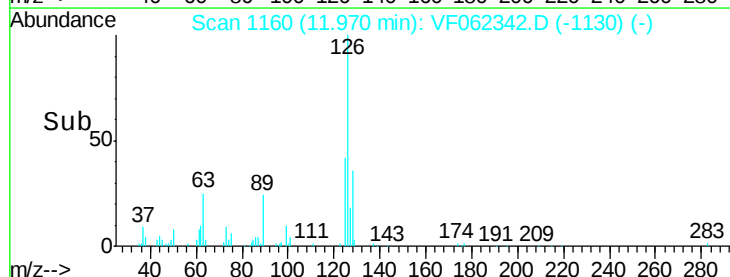
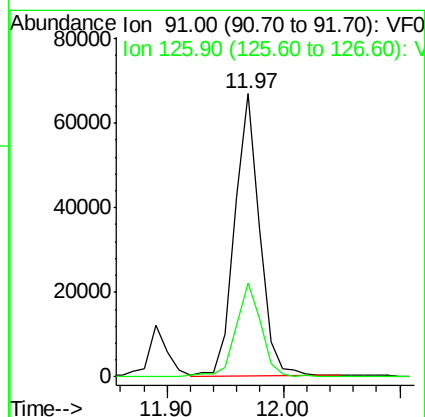
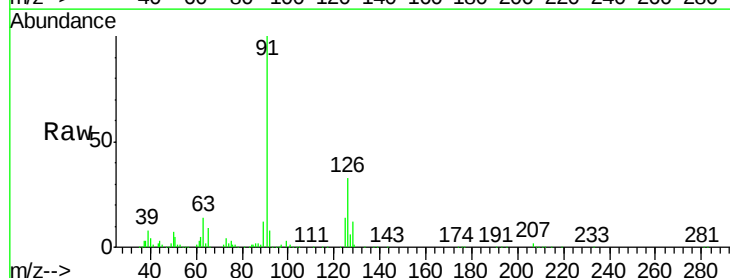
Acq: 6 May 2019 18:12

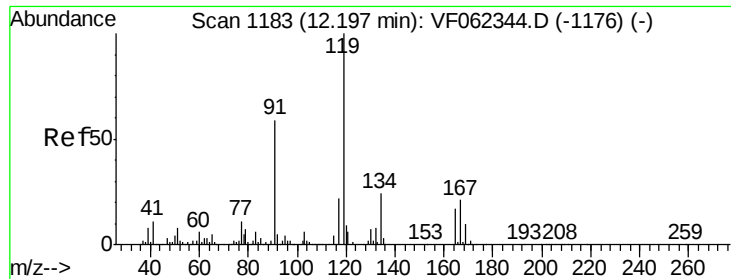
Tgt Ion: 91 Resp: 98560

Ion Ratio Lower Upper

91 100

126 34.6 17.7 53.1

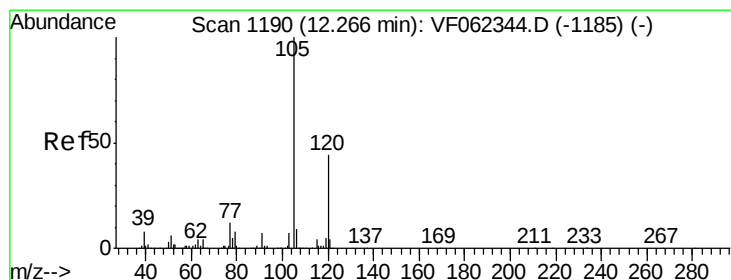
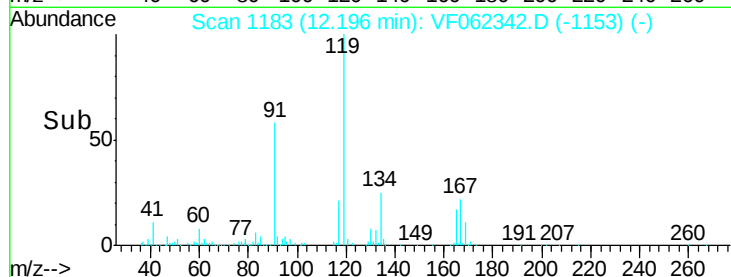
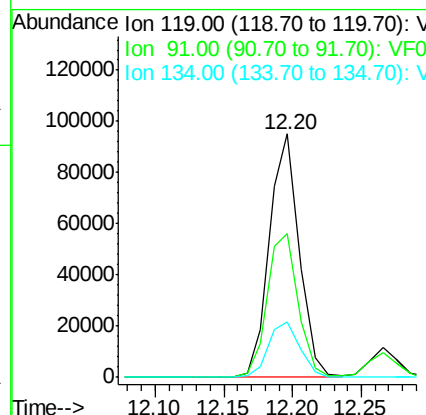
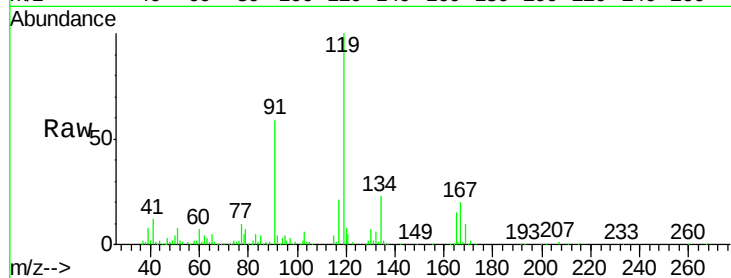




#83
tert-Butylbenzene
Concen: 8.504 ug/l
RT: 12.20 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

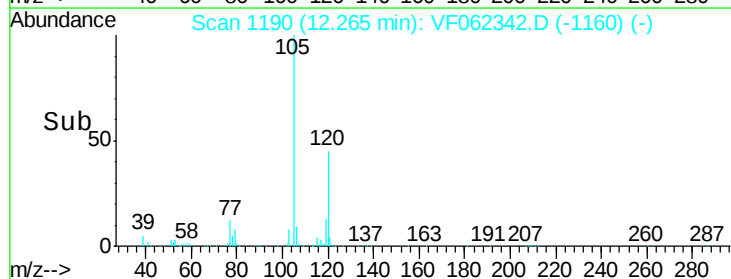
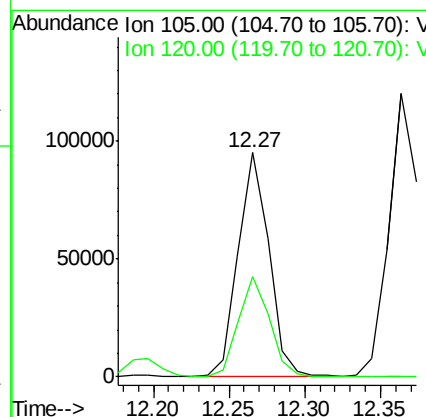
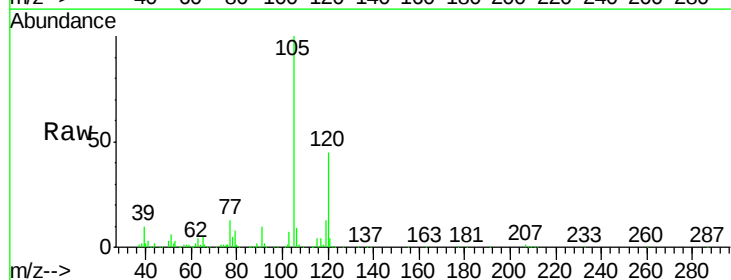
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

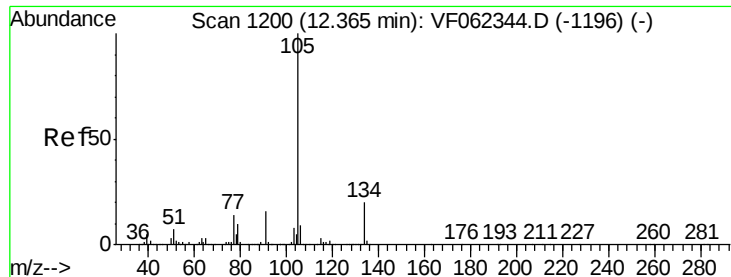
Tot Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.4	91.3
134	24.0	11.9	35.7



#84
1,2,4-Trimethylbenzene
Concen: 8.517 ug/l
RT: 12.27 min Scan# 1190
Delta R.T. -0.00 min
Lab File: VF062342.D
Acq: 6 May 2019 18:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.6	67.7





#85

sec-Butylbenzene

Concen: 8.257 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

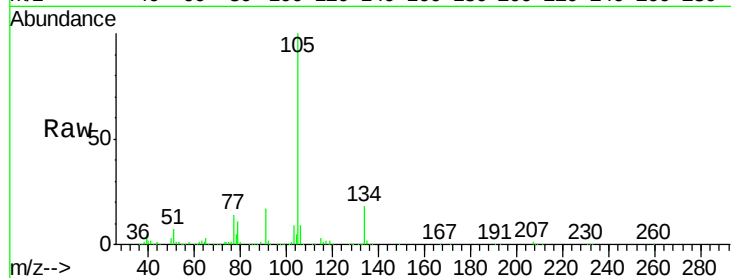
VSTDIC010

Tot Ion:105 Resp: 171351

Ion Ratio Lower Upper

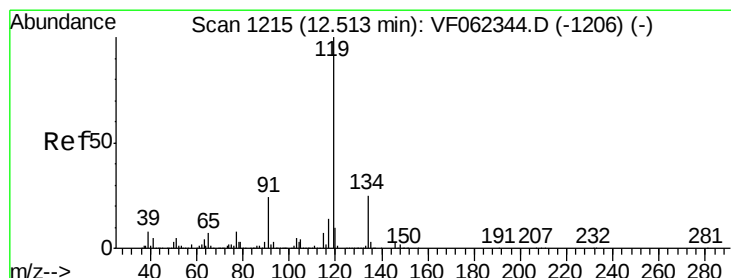
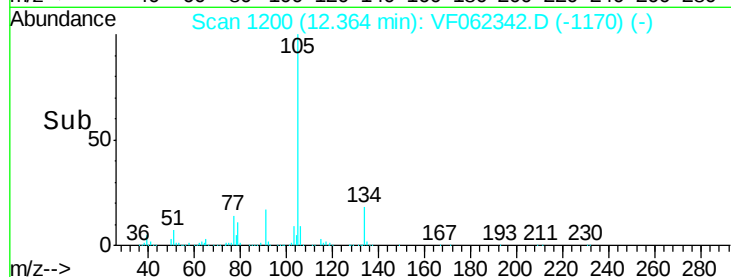
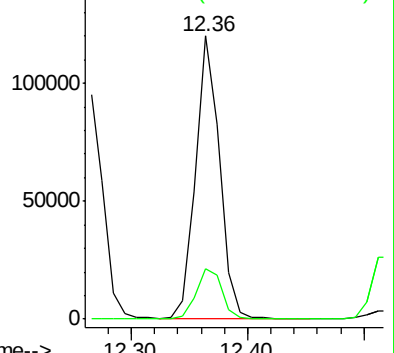
105 100

134 19.1 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 8.856 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

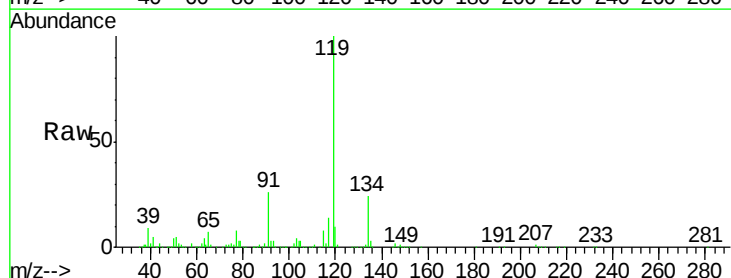
Tgt Ion:119 Resp: 165915

Ion Ratio Lower Upper

119 100

134 25.2 12.9 38.7

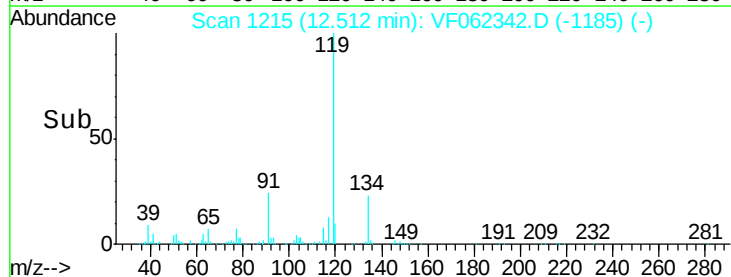
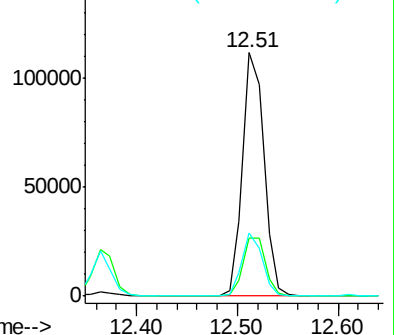
91 24.5 12.3 36.8

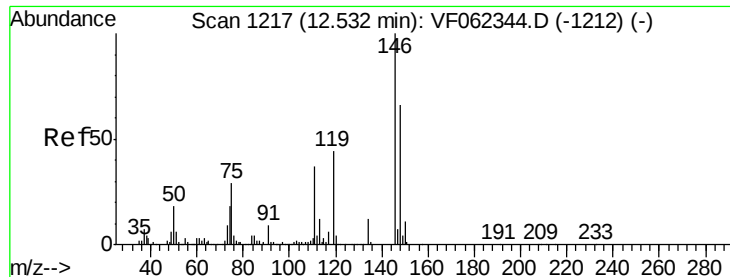


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 9.225 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. -0.00 min

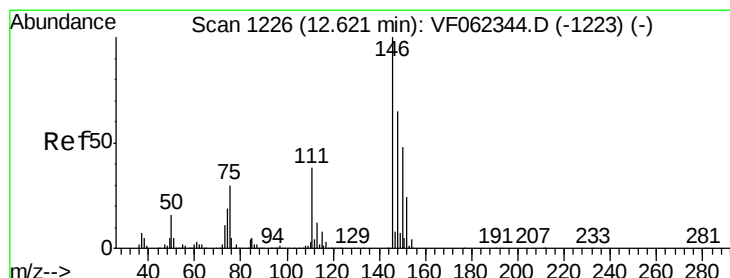
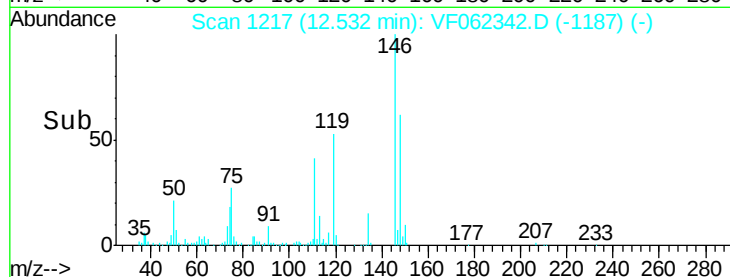
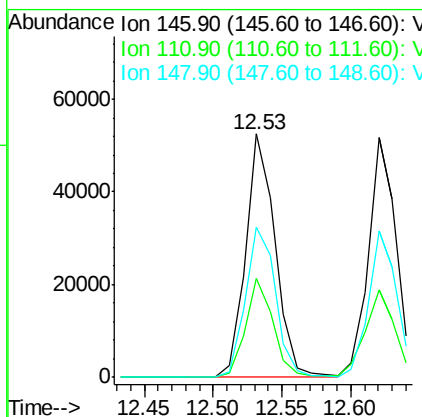
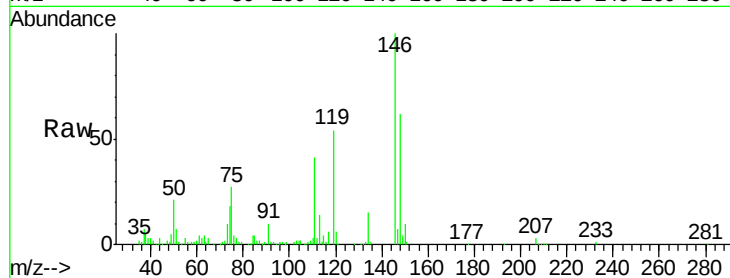
Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion:146 Resp: 78745

Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.3	54.8
148	63.4	32.3	96.9



#88

1,4-Dichlorobenzene

Concen: 8.958 ug/l

RT: 12.62 min Scan# 1226

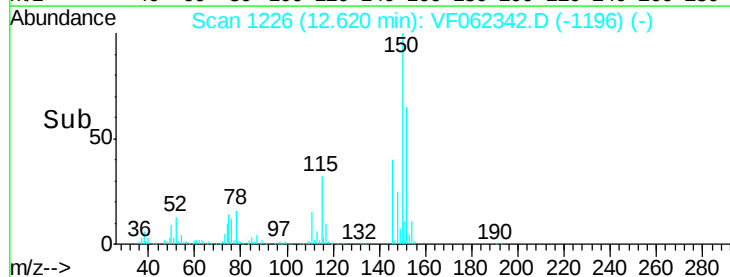
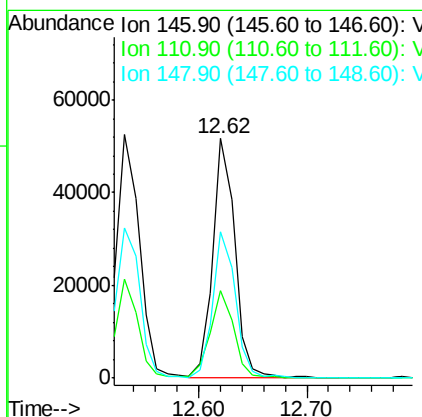
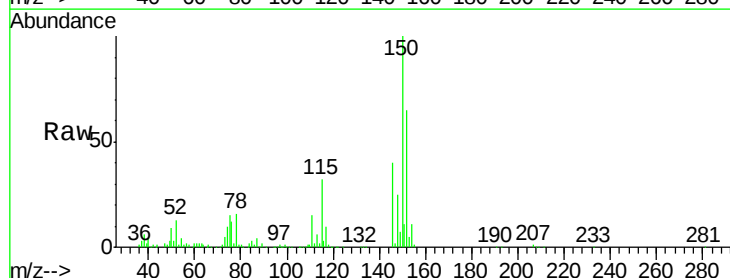
Delta R.T. -0.00 min

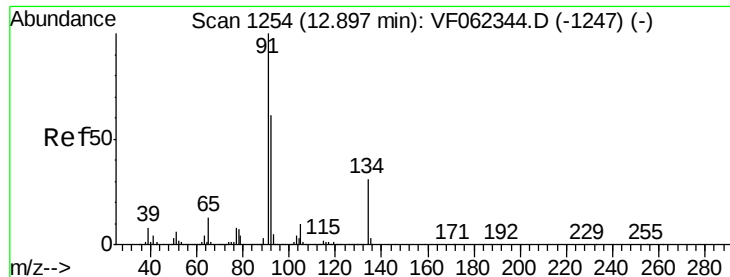
Lab File: VF062342.D

Acq: 6 May 2019 18:12

Tgt Ion:146 Resp: 73942

Ion	Ratio	Lower	Upper
146	100		
111	39.6	18.8	56.3
148	62.8	32.2	96.6





#89

n-Butylbenzene

Concen: 8.980 ug/l

RT: 12.90 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

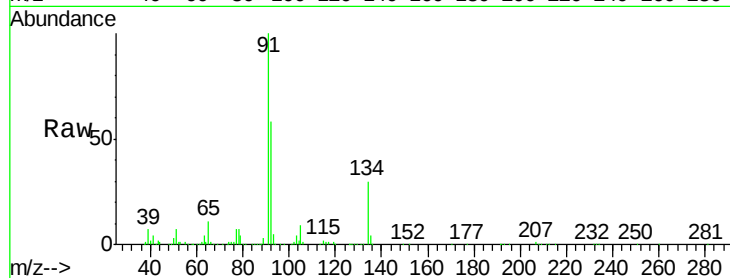
Tot Ion: 91 Resp: 151014

Ion Ratio Lower Upper

91 100

92 56.0 30.0 90.0

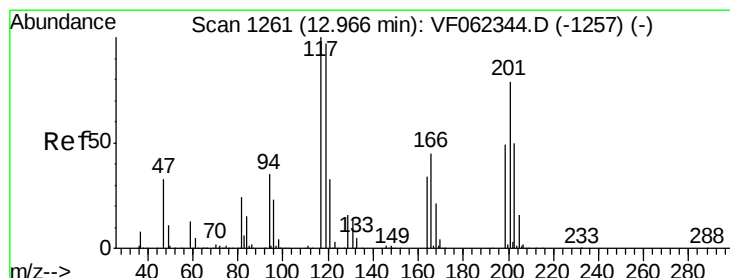
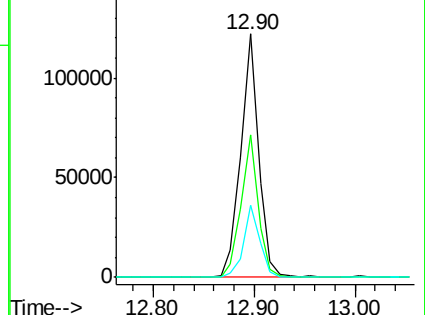
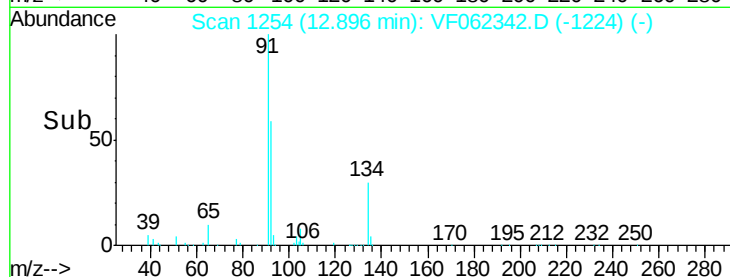
134 26.7 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 8.321 ug/l

RT: 12.97 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VF062342.D

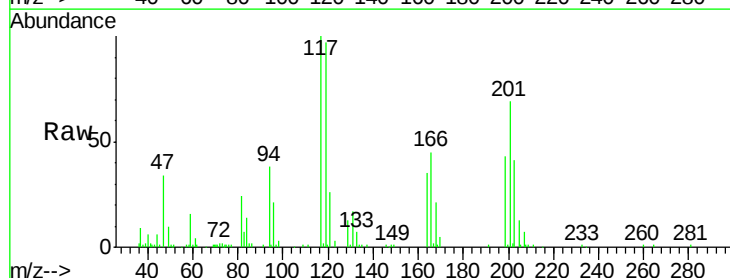
Acq: 6 May 2019 18:12

Tgt Ion: 117 Resp: 39607

Ion Ratio Lower Upper

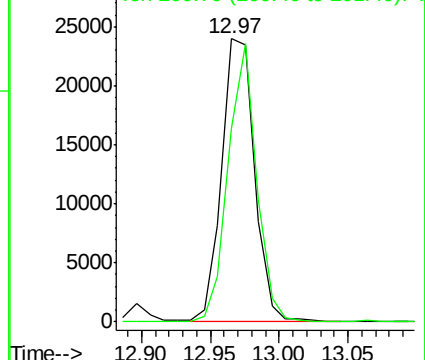
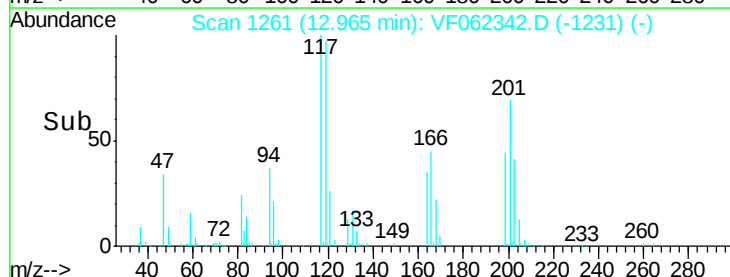
117 100

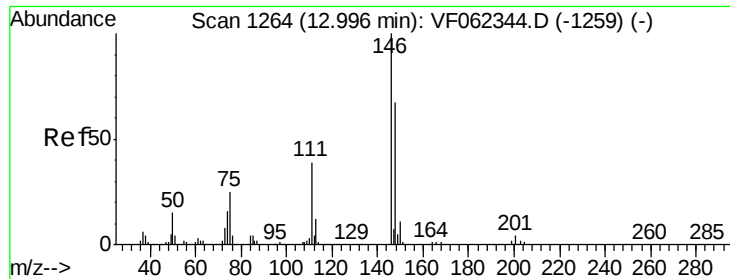
201 85.4 46.2 138.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 9.148 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

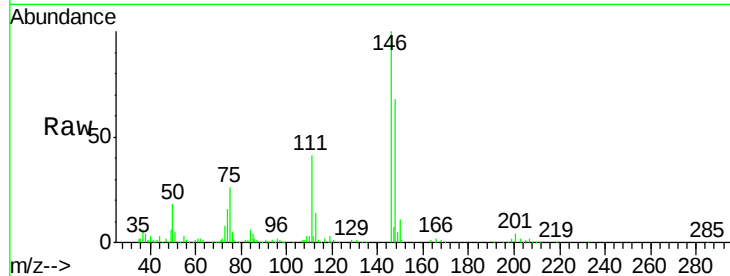
Tot Ion:146 Resp: 75405

Ion Ratio Lower Upper

146 100

111 39.9 20.0 60.0

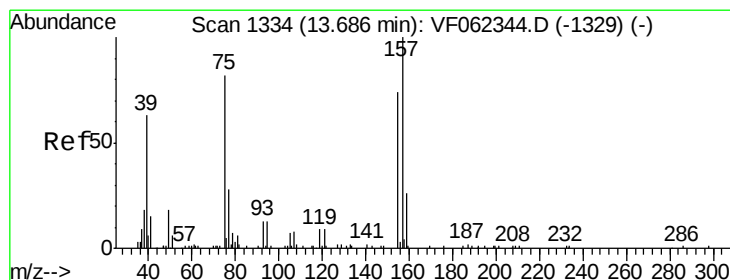
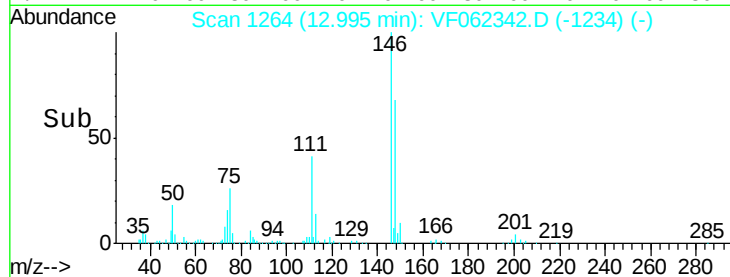
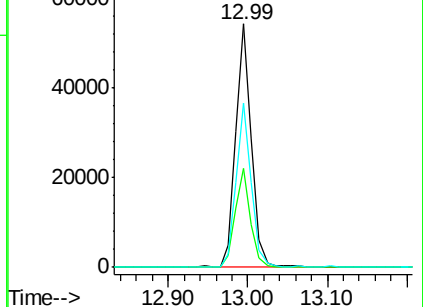
148 65.1 33.1 99.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 8.472 ug/l

RT: 13.68 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

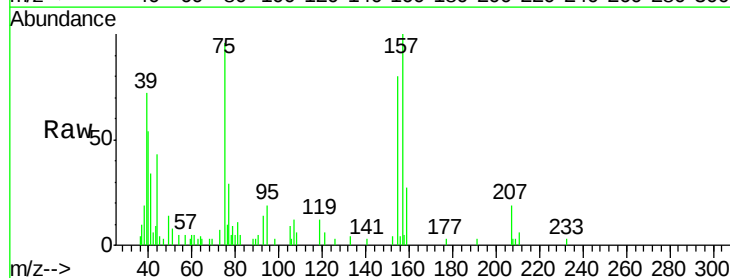
Tgt Ion: 75 Resp: 5351

Ion Ratio Lower Upper

75 100

155 103.3 51.8 155.4

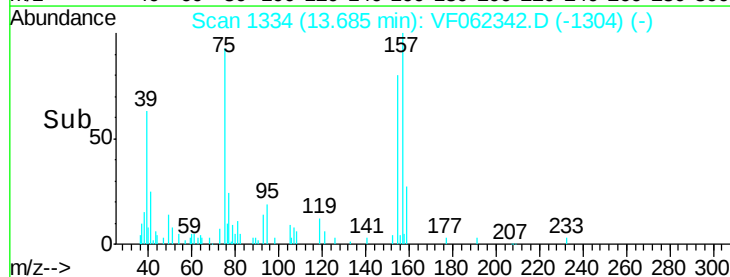
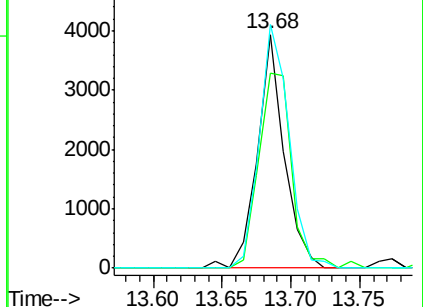
157 115.6 67.3 201.8

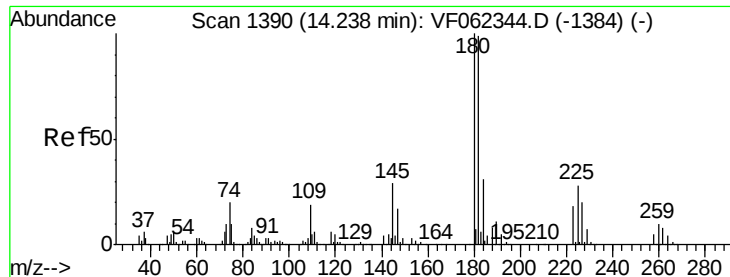


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

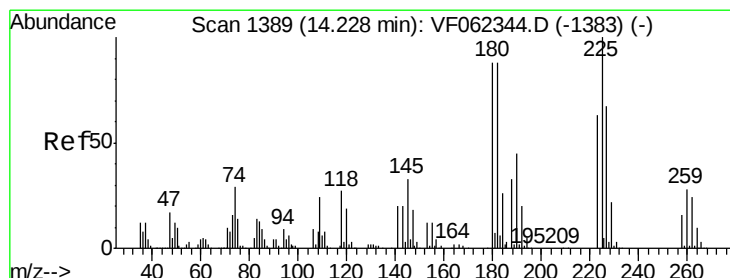
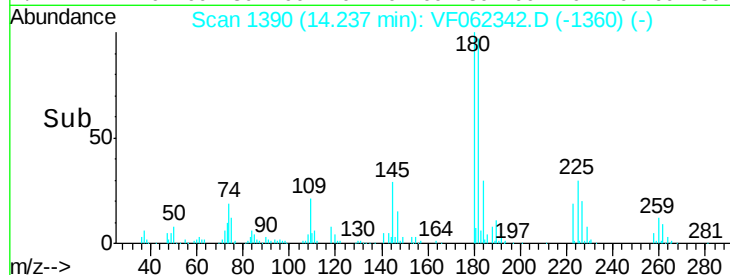
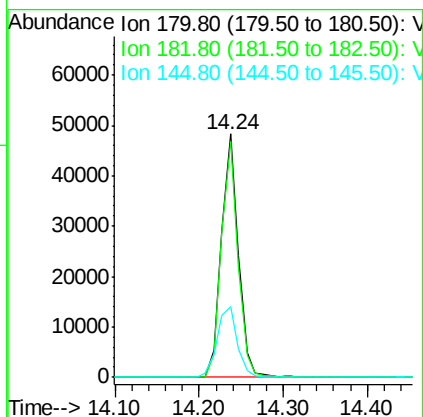
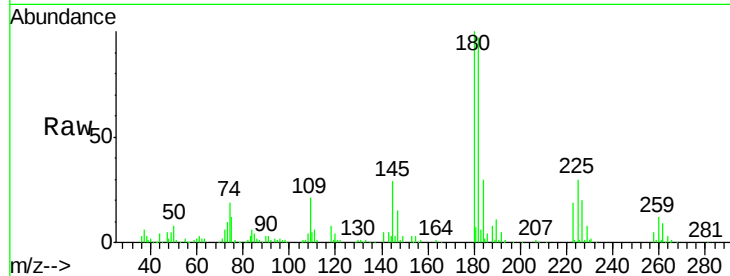




#93
 1,2,4-Trichlorobenzene
 Concen: 9.272 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

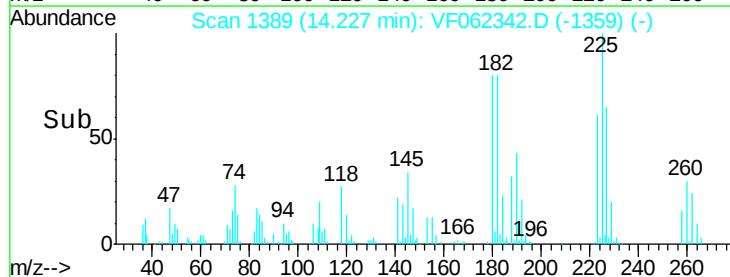
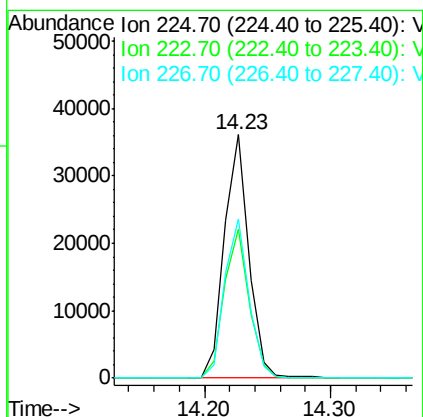
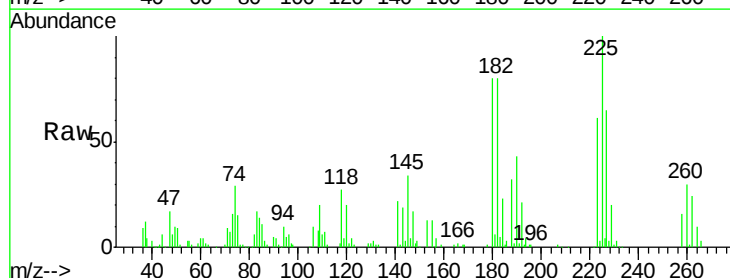
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 MSVOA_F
 ClientSampleId :
 VSTDIC010

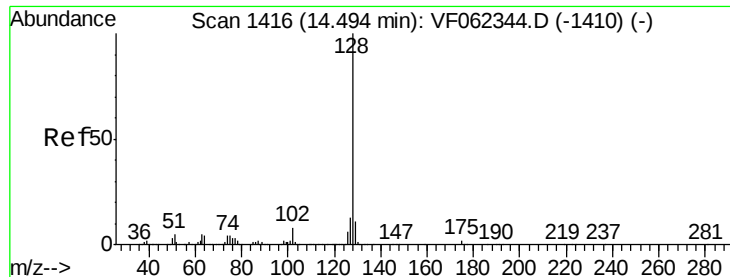
Tot Ion:180 Resp: 67924
 Ion Ratio Lower Upper
 180 100
 182 94.5 49.0 147.0
 145 34.4 16.7 50.1



#94
 Hexachlorobutadiene
 Concen: 9.017 ug/l
 RT: 14.23 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062342.D
 Acq: 6 May 2019 18:12

Tgt Ion:225 Resp: 48321
 Ion Ratio Lower Upper
 225 100
 223 62.4 31.9 95.5
 227 65.2 33.1 99.5





#95

Naphthalene

Concen: 8.180 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

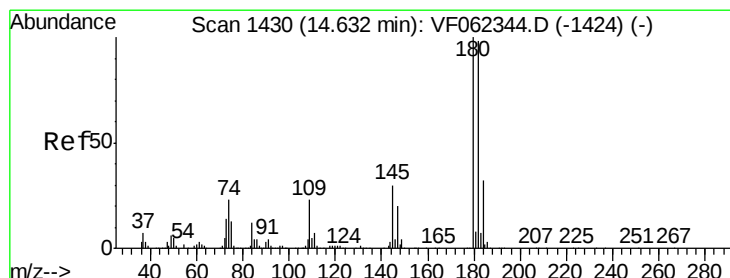
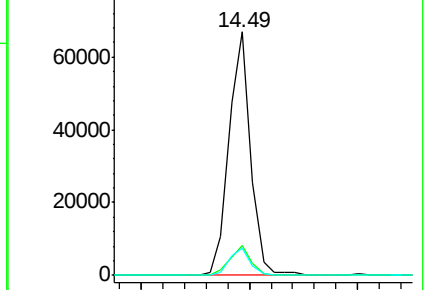
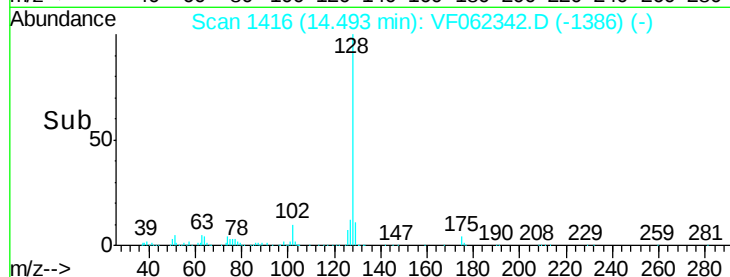
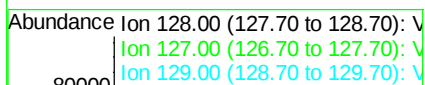
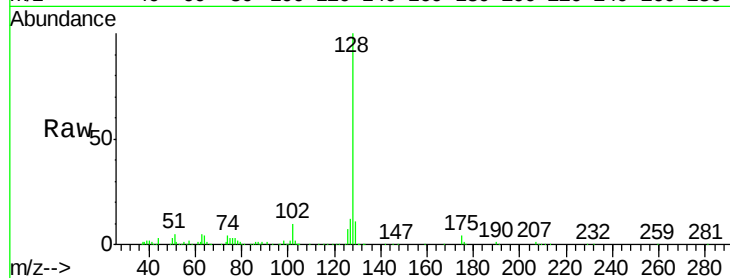
Tot Ion:128 Resp: 93368

Ion Ratio Lower Upper

128 100

127 11.7 10.5 15.7

129 10.5 8.6 12.8



#96

1,2,3-Trichlorobenzene

Concen: 9.081 ug/l

RT: 14.63 min Scan# 1430

Delta R.T. -0.00 min

Lab File: VF062342.D

Acq: 6 May 2019 18:12

Tgt Ion:180 Resp: 63905

Ion Ratio Lower Upper

180 100

182 91.7 49.4 148.0

145 28.3 14.8 44.3

