

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041719\
 Data File : VF062191.D
 Acq On : 17 Apr 2019 17:40
 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: Apr 18 06:52:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 06:46:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	408734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	580940	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	438056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.60	152	250574	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	36146	6.64	ug/l	0.00
Spiked Amount			Recovery	=	13.28%	
35) Dibromofluoromethane	4.30	113	53019	13.31	ug/l	0.00
Spiked Amount			Recovery	=	26.62%	
50) Toluene-d8	7.70	98	128465	8.84	ug/l	0.00
Spiked Amount			Recovery	=	17.68%	
62) 4-Bromofluorobenzene	11.48	95	49094	9.52	ug/l	0.00
Spiked Amount			Recovery	=	19.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	67036	13.675	ug/l	97
3) Chloromethane	1.14	50	67400	11.409	ug/l	90
4) Vinyl Chloride	1.18	62	58867	10.476	ug/l	98
5) Bromomethane	1.40	94	35213	9.523	ug/l	96
6) Chloroethane	1.44	64	24814	7.823	ug/l	95
7) Trichlorofluoromethane	1.55	101	72501	10.863	ug/l	98
8) Diethyl Ether	1.70	74	14735	5.293	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.91	101	49451	11.429	ug/l	97
10) Methyl Iodide	1.98	142	88963	17.785	ug/l #	91
11) Tert butyl alcohol	2.70	59	13460	12.411	ug/l #	88
12) 1,1-Dichloroethene	1.86	96	46477	10.478	ug/l	98
13) Acrolein	2.10	56	9244	10.226	ug/l #	76
14) Allyl chloride	2.19	41	54256	6.153	ug/l	96
15) Acrylonitrile	3.07	53	38580	13.503	ug/l	96
16) Acetone	2.34	43	47204	17.806	ug/l	96
17) Carbon Disulfide	1.92	76	129321	9.423	ug/l	96
18) Methyl Acetate	2.45	43	26511	3.980	ug/l #	88
19) Methyl tert-butyl Ether	2.54	73	78033	5.402	ug/l	96
20) Methylene Chloride	2.33	84	46413	9.110	ug/l	98
21) trans-1,2-Dichloroethene	2.41	96	46255	9.844	ug/l	97
22) Diisopropyl ether	2.93	45	138519	7.789	ug/l	98
23) Vinyl Acetate	3.34	43	324545	22.017	ug/l	100
24) 1,1-Dichloroethane	3.00	63	75634	8.392	ug/l	98
25) 2-Butanone	4.51	43	89651	20.920	ug/l	97
26) 2,2-Dichloropropane	3.76	77	38525	5.970	ug/l	99
27) cis-1,2-Dichloroethene	3.63	96	59025	10.801	ug/l	100
28) Bromochloromethane	3.88	49	35953	8.532	ug/l #	99
29) Tetrahydrofuran	4.26	42	43569	15.445	ug/l	96
30) Chloroform	4.04	83	88765	10.432	ug/l	99
31) Cyclohexane	3.86	56	91331	9.993	ug/l	90
32) 1,1,1-Trichloroethane	4.28	97	69585	10.447	ug/l #	89
36) 1,1-Dichloropropene	4.45	75	69964	11.233	ug/l	99
37) Ethyl Acetate	4.29	43	36225	5.200	ug/l #	98
38) Carbon Tetrachloride	4.17	117	61053	11.732	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041719\
 Data File : VF062191.D
 Acq On : 17 Apr 2019 17:40
 Operator : FY/SY
 Sample : VSTDICC010
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICC010

Quant Time: Apr 18 06:52:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 06:46:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	85277	11.339	ug/l	94
40) Benzene	4.81	78	189346	10.601	ug/l	99
41) Methacrylonitrile	4.92	41	18088	4.490	ug/l #	87
42) 1,2-Dichloroethane	5.11	62	48476	7.972	ug/l	99
43) Isopropyl Acetate	7.10	43	32280	2.941	ug/l #	99
44) Trichloroethene	5.67	130	52135	11.635	ug/l	96
45) 1,2-Dichloropropane	6.39	63	40519	8.484	ug/l	94
46) Dibromomethane	6.25	93	26987	9.427	ug/l	98
47) Bromodichloromethane	6.54	83	60811	10.702	ug/l	98
48) Methyl methacrylate	6.87	41	21162	3.843	ug/l	97
49) 1,4-Dioxane	6.86	88	5100	49.967	ug/l #	85
51) 4-Methyl-2-Pentanone	8.39	43	130386	18.490	ug/l	99
52) Toluene	7.76	92	96503	9.146	ug/l	97
53) t-1,3-Dichloropropene	8.42	75	45107	7.378	ug/l	94
54) cis-1,3-Dichloropropene	7.45	75	62297	8.844	ug/l	95
55) 1,1,2-Trichloroethane	8.62	97	27249	6.853	ug/l	98
56) Ethyl methacrylate	8.74	69	29709	4.375	ug/l #	85
57) 1,3-Dichloropropane	8.98	76	42517	6.067	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.43	63	41836	11.800	ug/l	99
59) 2-Hexanone	9.61	43	82795	15.390	ug/l	93
60) Dibromochloromethane	8.85	129	38771	9.646	ug/l	98
61) 1,2-Dibromoethane	9.13	107	29132	7.042	ug/l	95
64) Tetrachloroethene	8.30	164	40758	11.788	ug/l	92
65) Chlorobenzene	9.91	112	95175	10.096	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.05	131	46709	13.513	ug/l	98
67) Ethyl Benzene	10.01	91	170177	10.026	ug/l	94
68) m/p-Xylenes	10.25	106	131398	21.276	ug/l	95
69) o-Xylene	10.81	106	72283	11.673	ug/l	95
70) Styrene	10.88	104	103003	10.039	ug/l	99
71) Bromoform	10.87	173	24100	9.480	ug/l #	99
73) Isopropylbenzene	11.21	105	222251	11.363	ug/l	96
74) N-amyl acetate	11.44	43	59614	5.980	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.76	83	36539	5.651	ug/l	99
76) 1,2,3-Trichloropropane	11.86	75	25520	4.568	ug/l #	64
77) Bromobenzene	11.57	156	44316	9.217	ug/l	97
78) n-propylbenzene	11.66	91	234493	10.706	ug/l	98
79) 2-Chlorotoluene	11.79	91	141524	10.626	ug/l	99
80) 1,3,5-Trimethylbenzene	11.89	105	184080	11.261	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.92	75	18153	8.301	ug/l #	80
82) 4-Chlorotoluene	11.96	91	134926	9.010	ug/l	98
83) tert-Butylbenzene	12.19	119	195733	12.262	ug/l	99
84) 1,2,4-Trimethylbenzene	12.26	105	181164	11.019	ug/l	95
85) sec-Butylbenzene	12.36	105	254504	13.161	ug/l	97
86) p-Isopropyltoluene	12.51	119	215653	12.361	ug/l	98
87) 1,3-Dichlorobenzene	12.53	146	88362	10.476	ug/l	98
88) 1,4-Dichlorobenzene	12.61	146	83842	9.827	ug/l	98
89) n-Butylbenzene	12.89	91	217397	13.572	ug/l	96
90) Hexachloroethane	12.96	117	52386	16.376	ug/l	99
91) 1,2-Dichlorobenzene	12.99	146	85131	10.230	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.68	75	6910	4.749	ug/l	98

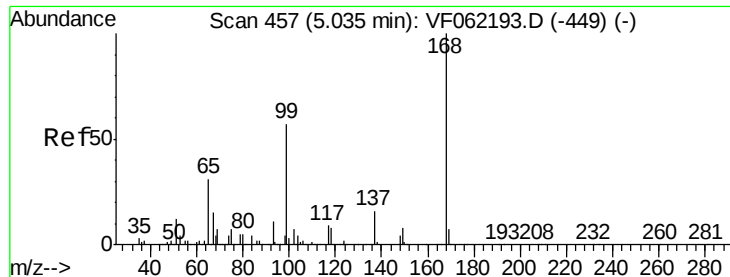
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041719\
Data File : VF062191.D
Acq On : 17 Apr 2019 17:40
Operator : FY/SY
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC010

Quant Time: Apr 18 06:52:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 18 06:46:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	74426	12.106	ug/l	98
94) Hexachlorobutadiene	14.22	225	48921	14.803	ug/l	99
95) Naphthalene	14.49	128	119592	6.609	ug/l	99
96) 1,2,3-Trichlorobenzene	14.63	180	67136	10.998	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

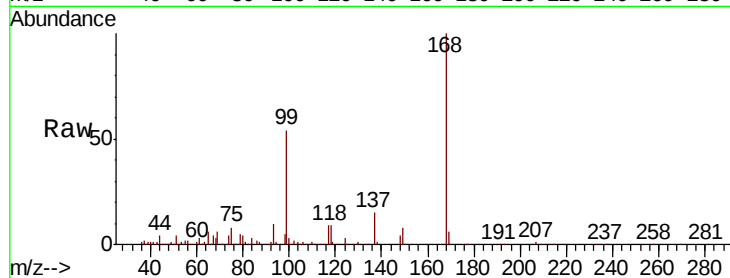
VSTDIC010

Tot Ion:168 Resp: 408734

Ion Ratio Lower Upper

168 100

99 53.7 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.03

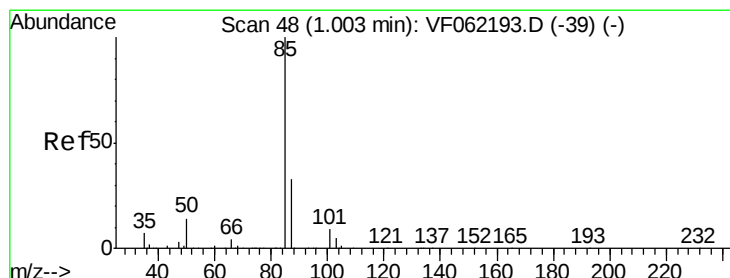
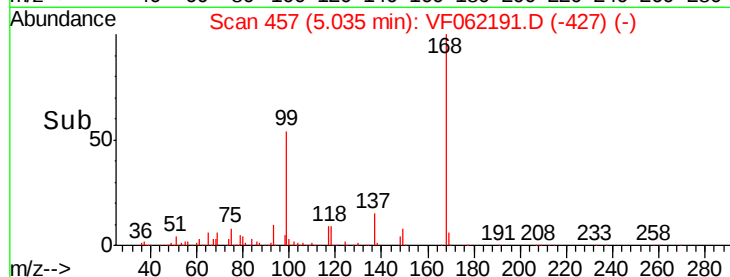
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 13.675 ug/l

RT: 1.00 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062191.D

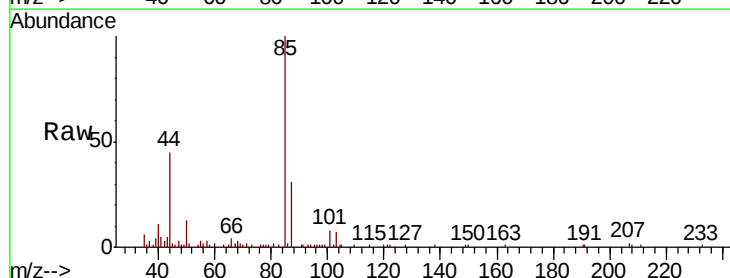
Acq: 17 Apr 2019 17:40

Tgt Ion: 85 Resp: 67036

Ion Ratio Lower Upper

85 100

87 30.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

20000

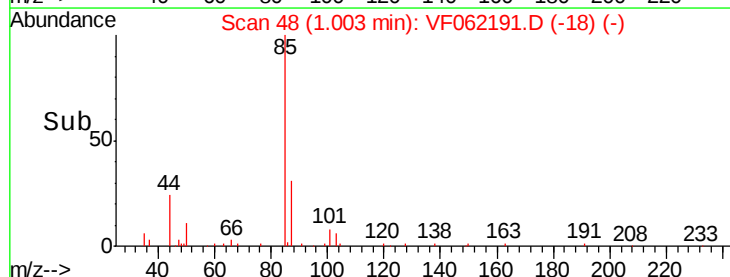
15000

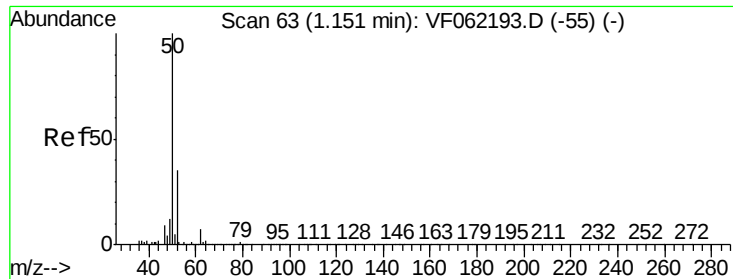
10000

5000

0

Time-->





#3

Chloromethane

Concen: 11.409 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

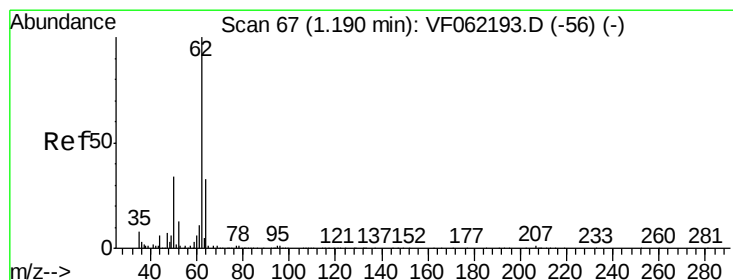
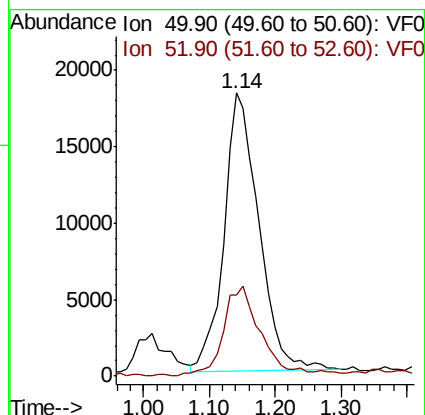
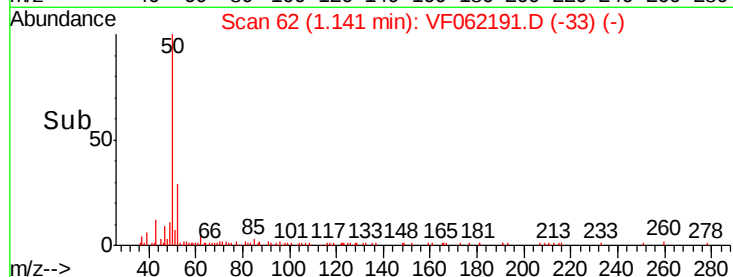
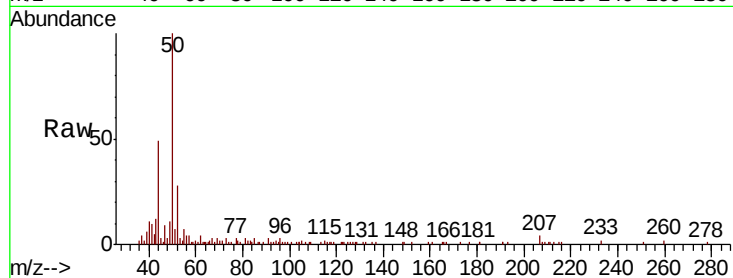
VSTDIC010

Tot Ion: 50 Resp: 67400

Ion Ratio Lower Upper

50 100

52 28.0 27.0 40.4



#4

Vinyl Chloride

Concen: 10.476 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062191.D

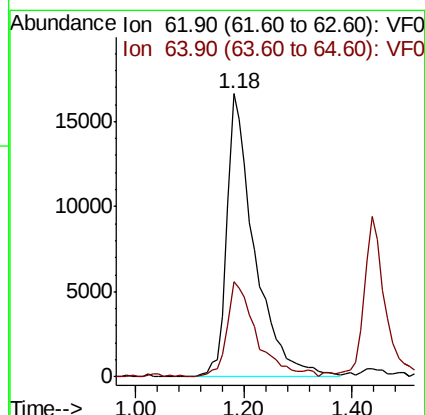
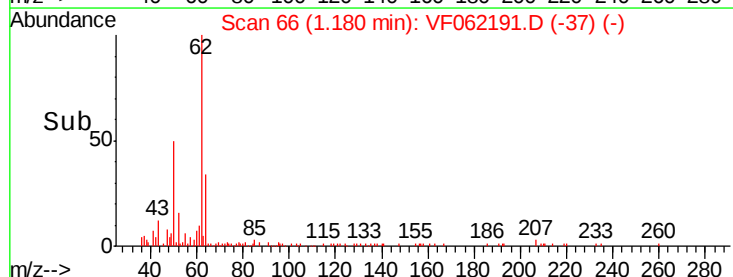
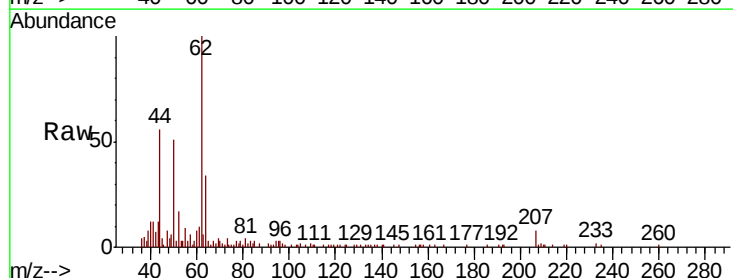
Acq: 17 Apr 2019 17:40

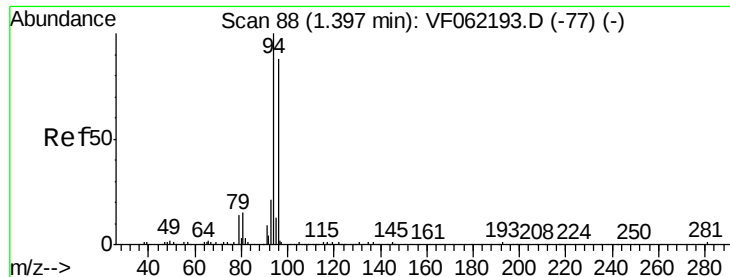
Tgt Ion: 62 Resp: 58867

Ion Ratio Lower Upper

62 100

64 33.7 26.2 39.4





#5

Bromomethane

Concen: 9.523 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

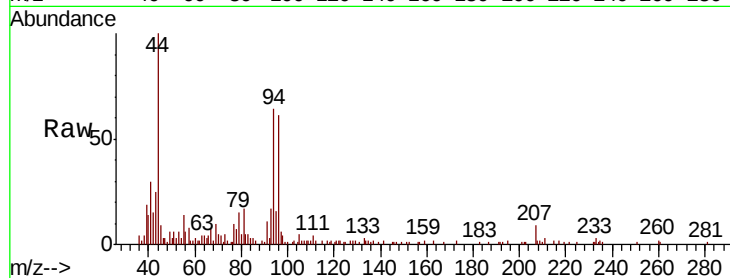
VSTDIC010

Tot Ion: 94 Resp: 35213

Ion Ratio Lower Upper

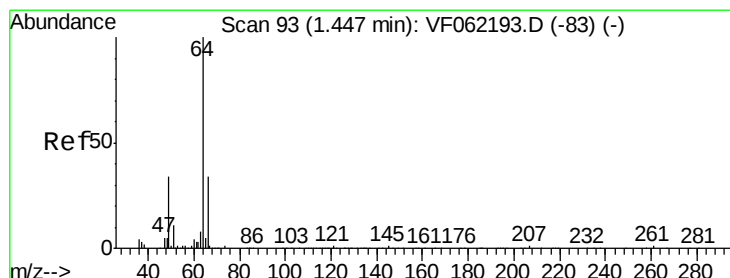
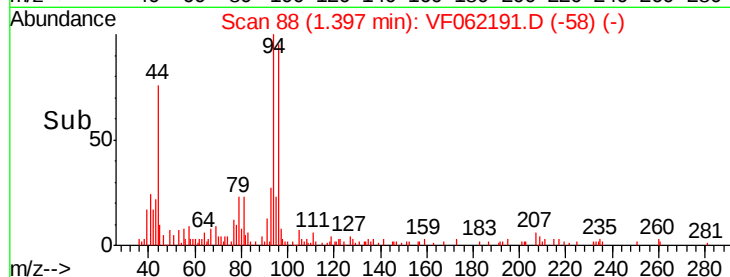
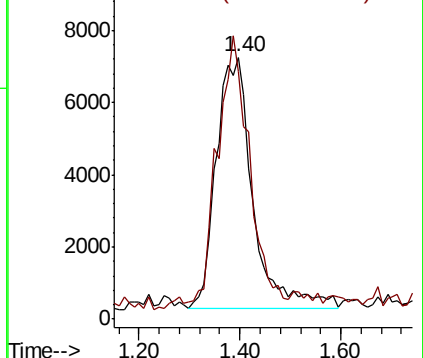
94 100

96 91.7 70.2 105.4



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 7.823 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062191.D

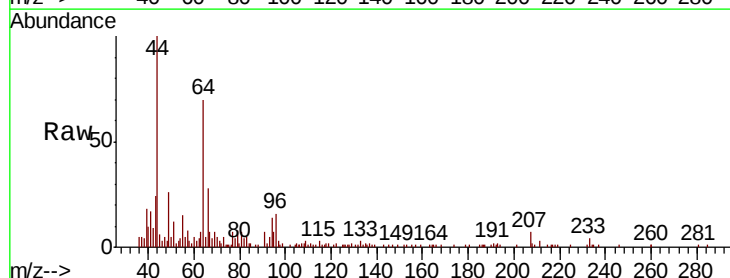
Acq: 17 Apr 2019 17:40

Tgt Ion: 64 Resp: 24814

Ion Ratio Lower Upper

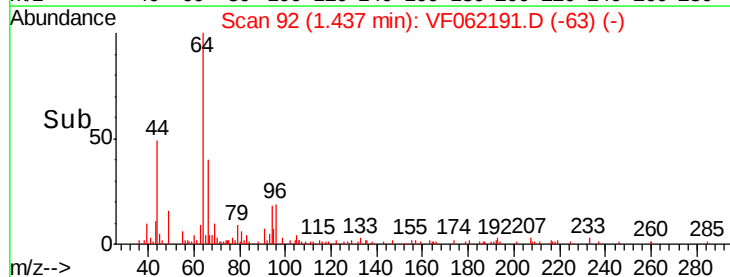
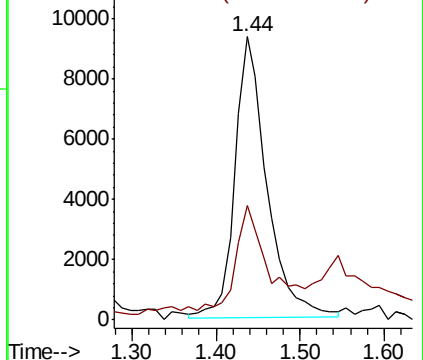
64 100

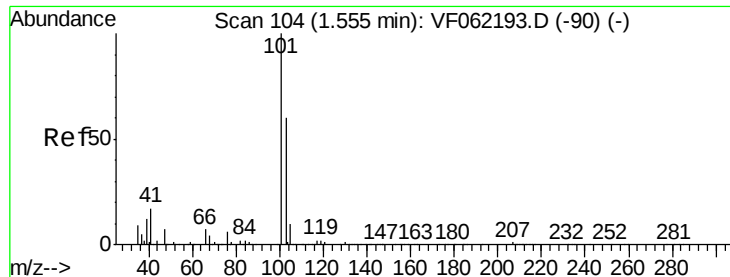
66 36.6 27.0 40.4



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



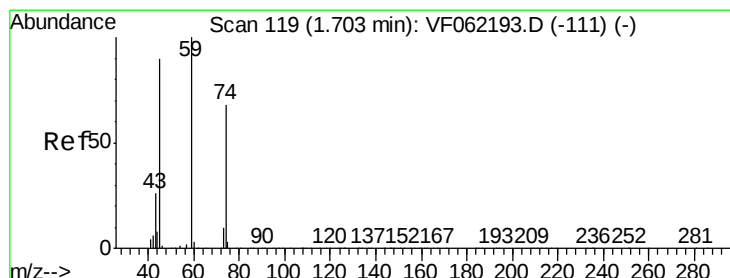
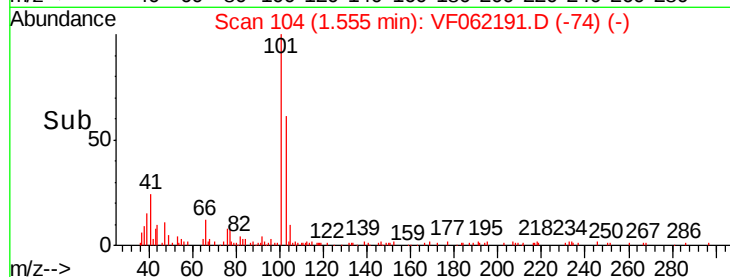
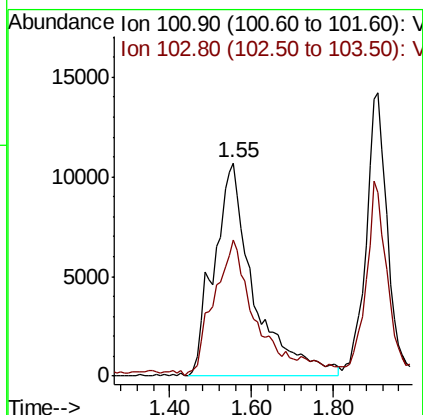
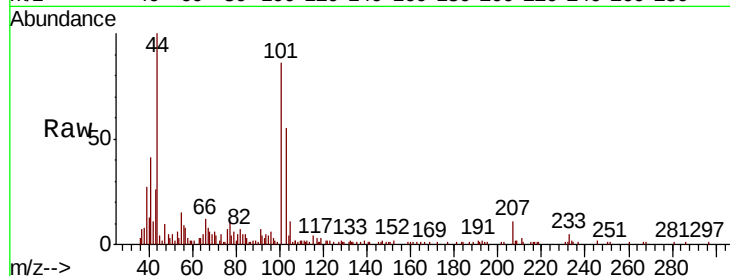


#7

Trichlorofluoromethane
Concen: 10.863 ug/l
RT: 1.55 min Scan# 104
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

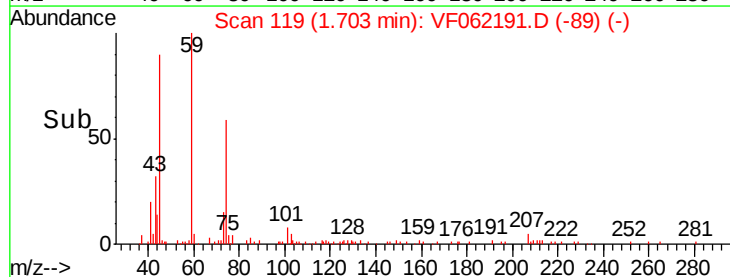
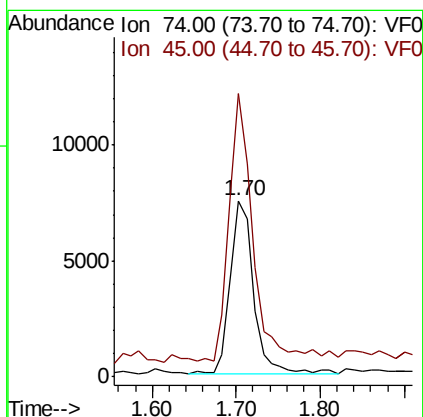
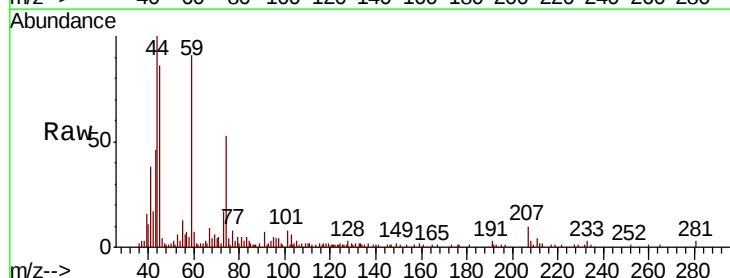
Tot Ion:101 Resp: 72501
Ion Ratio Lower Upper
101 100
103 61.7 48.2 72.4

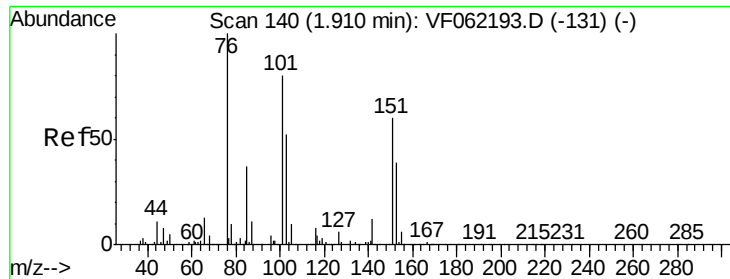


#8

Diethyl Ether
Concen: 5.293 ug/l
RT: 1.70 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 74 Resp: 14735
Ion Ratio Lower Upper
74 100
45 156.4 70.0 210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.429 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

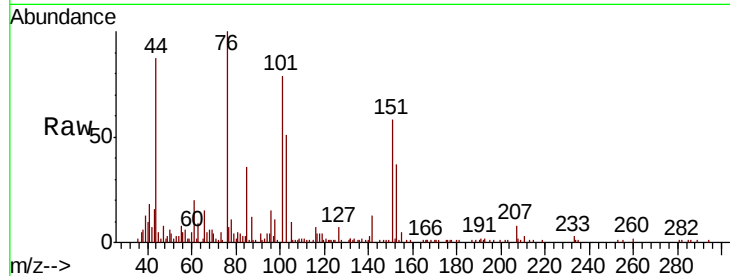
Tot Ion:101 Resp: 49451

Ion Ratio Lower Upper

101 100

85 43.3 35.3 52.9

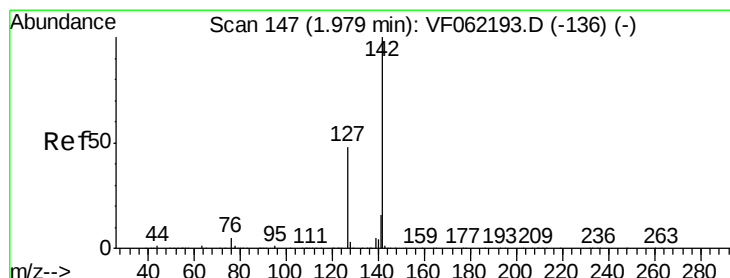
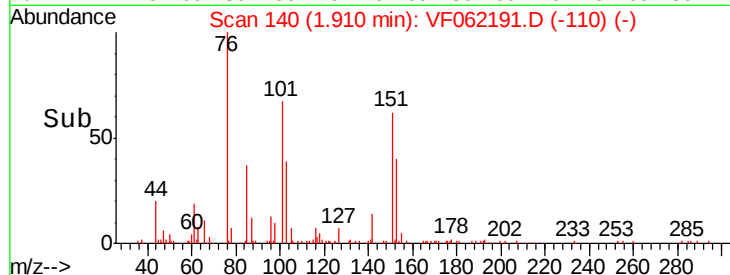
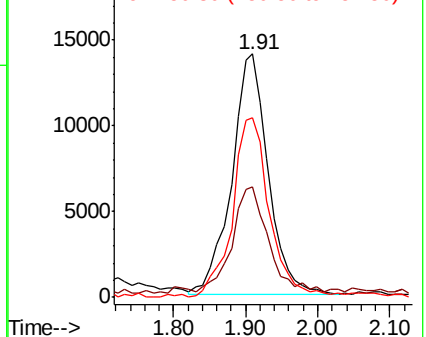
151 75.8 57.5 86.3



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: 17.785 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

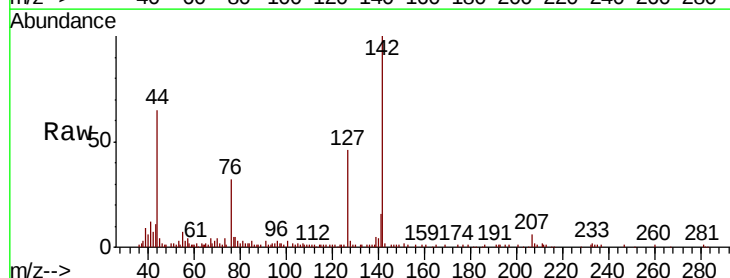
Tgt Ion:142 Resp: 88963

Ion Ratio Lower Upper

142 100

127 46.6 33.0 49.4

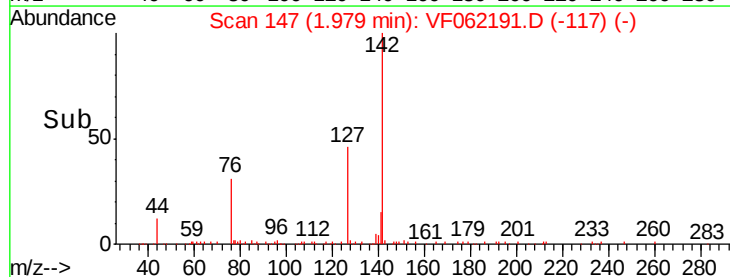
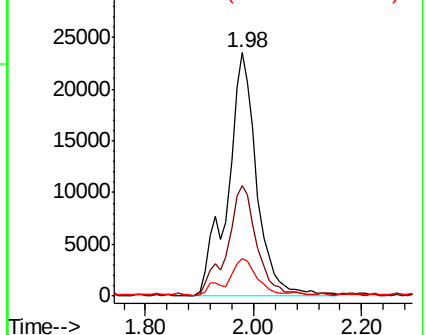
141 12.1 12.7 19.1#

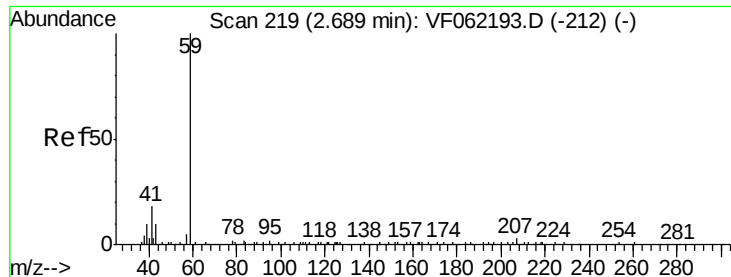


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



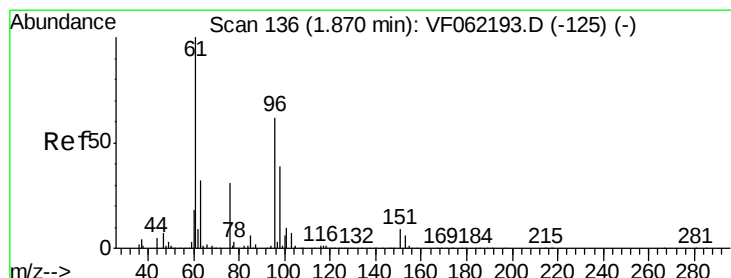
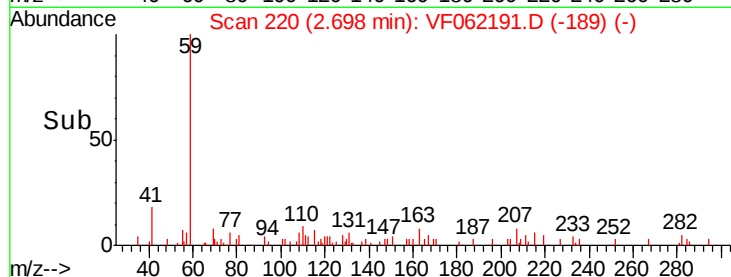
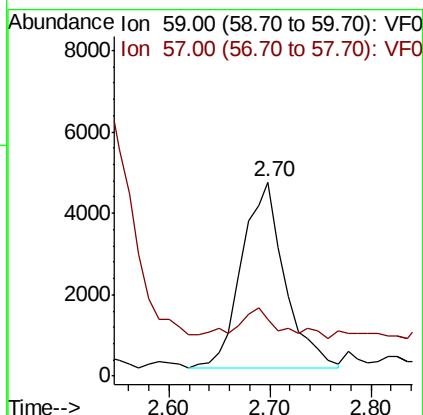
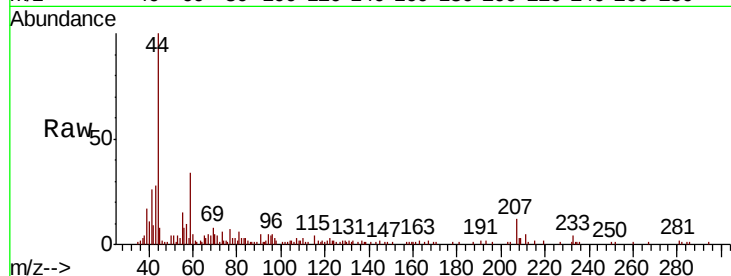


#11

Tert butyl alcohol
Concen: 12.411 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

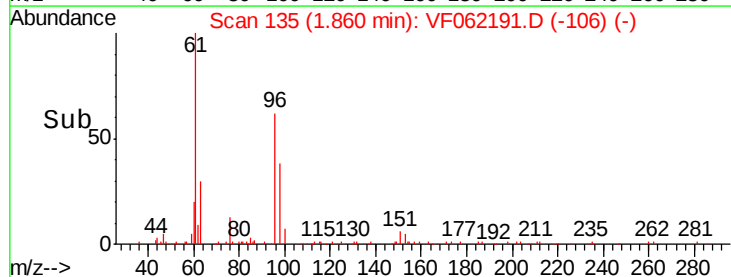
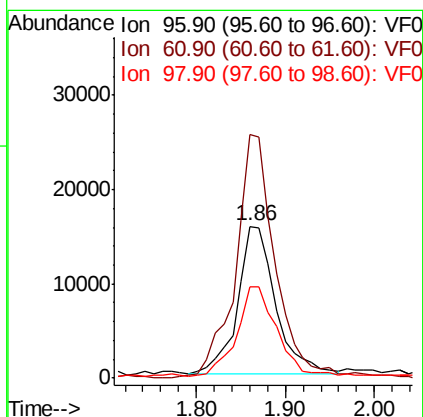
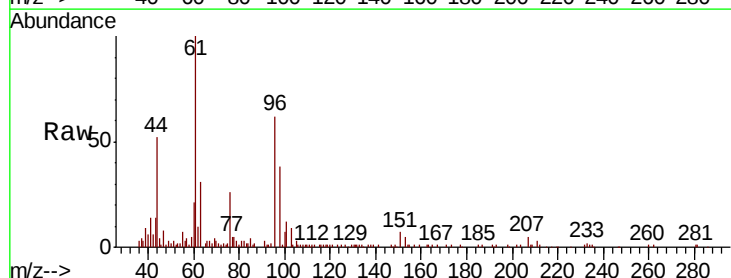
Tot Ion: 59 Resp: 13460
Ion Ratio Lower Upper
59 100
57 16.4 9.3 13.9#

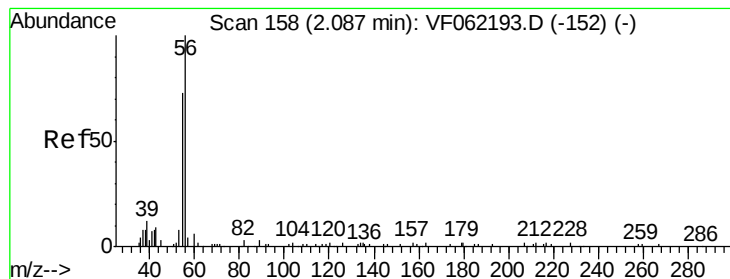


#12

1,1-Dichloroethene
Concen: 10.478 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 96 Resp: 46477
Ion Ratio Lower Upper
96 100
61 163.1 129.1 193.7
98 60.4 50.0 75.0





#13

Acrolein

Concen: 10.226 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

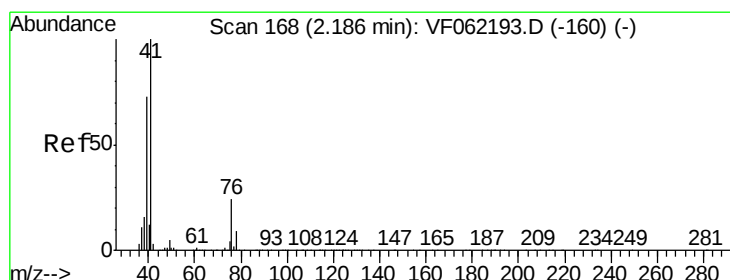
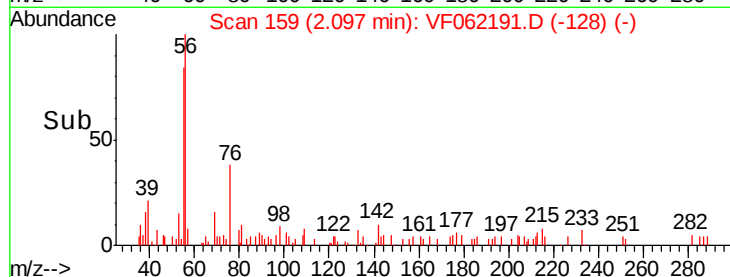
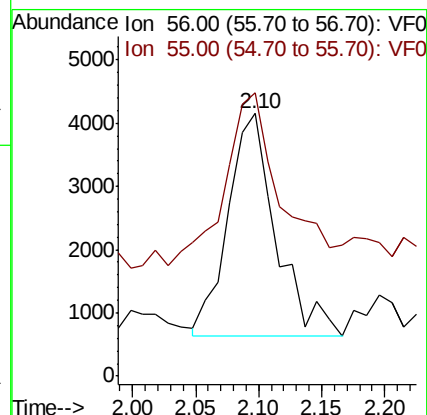
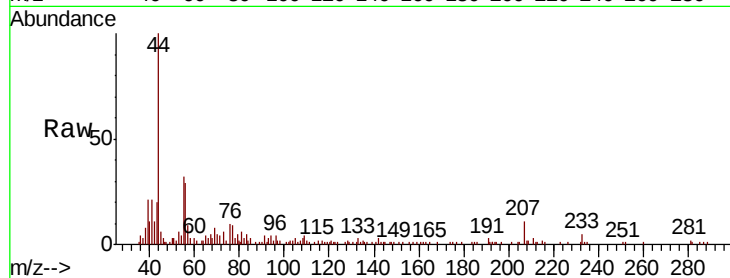
VSTDIC010

Tot Ion: 56 Resp: 9244

Ion Ratio Lower Upper

56 100

55 91.7 57.4 86.0#



#14

Allyl chloride

Concen: 6.153 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

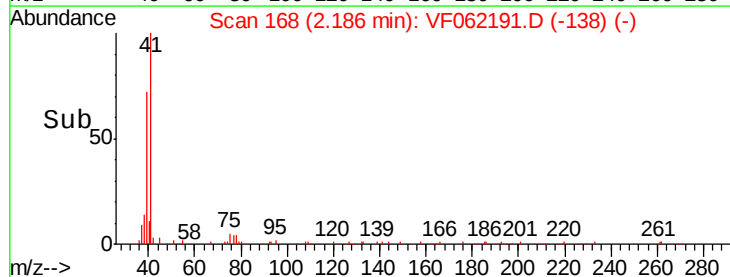
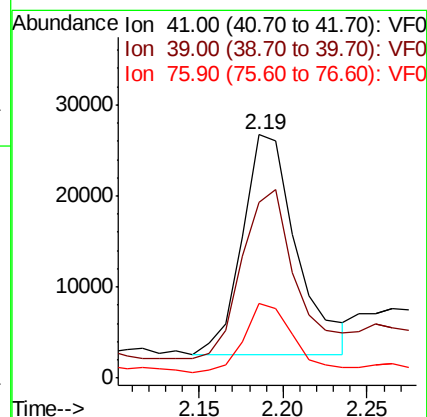
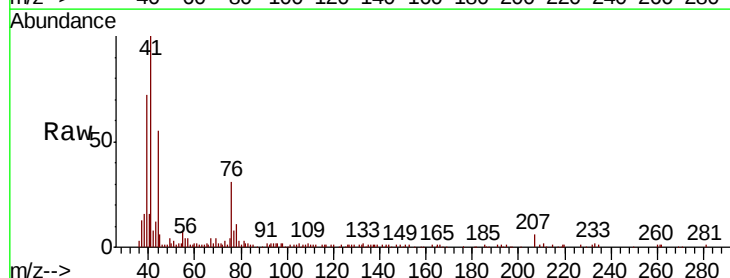
Tgt Ion: 41 Resp: 54256

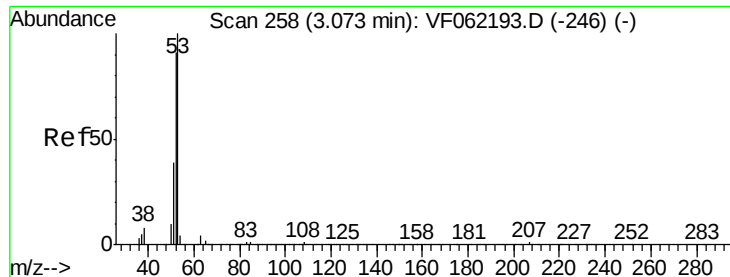
Ion Ratio Lower Upper

41 100

39 77.3 60.0 90.0

76 29.3 20.6 30.8





#15

Acrylonitrile

Concen: 13.503 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

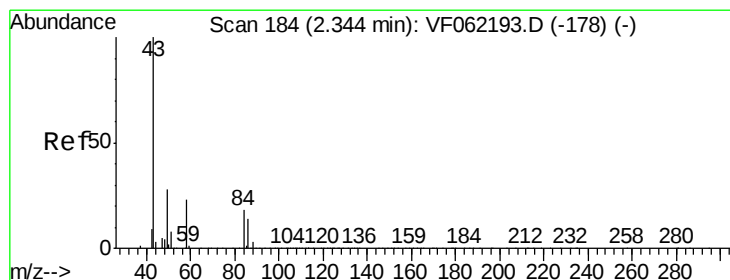
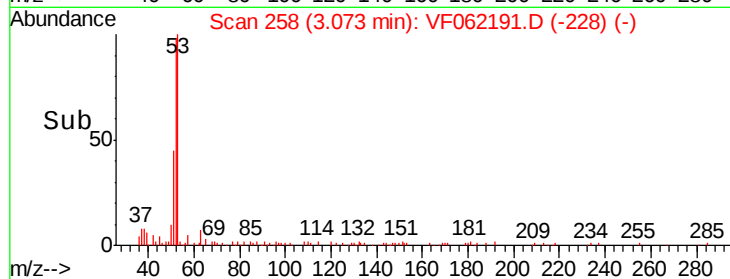
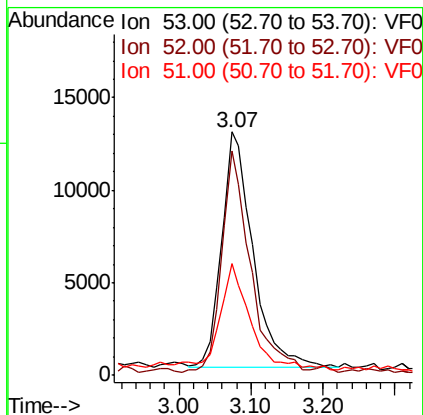
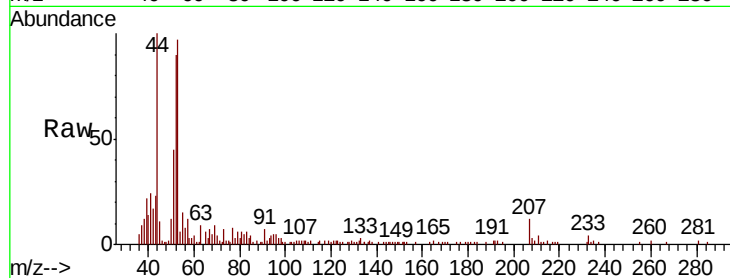
Tot Ion: 53 Resp: 38580

Ion Ratio Lower Upper

53 100

52 84.9 69.5 104.3

51 45.0 31.8 47.8



#16

Acetone

Concen: 17.806 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062191.D

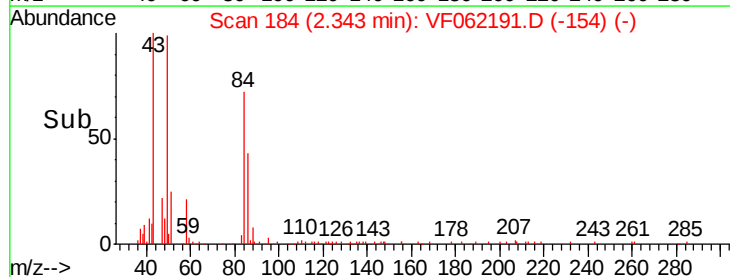
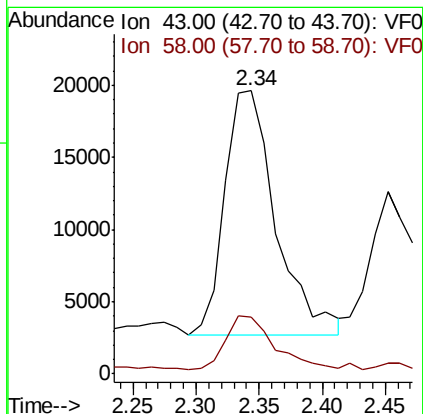
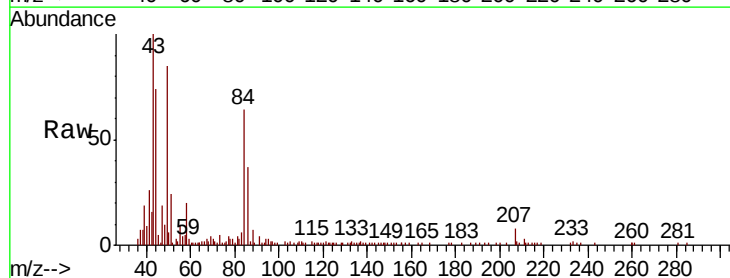
Acq: 17 Apr 2019 17:40

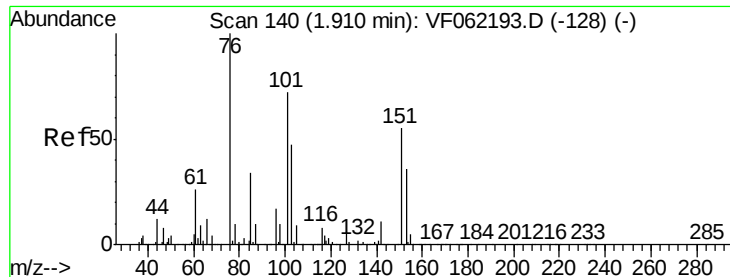
Tgt Ion: 43 Resp: 47204

Ion Ratio Lower Upper

43 100

58 21.5 18.8 28.2

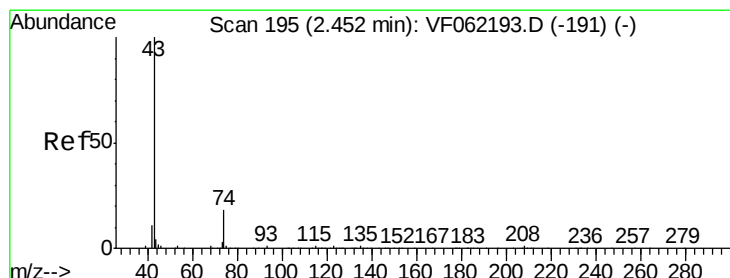
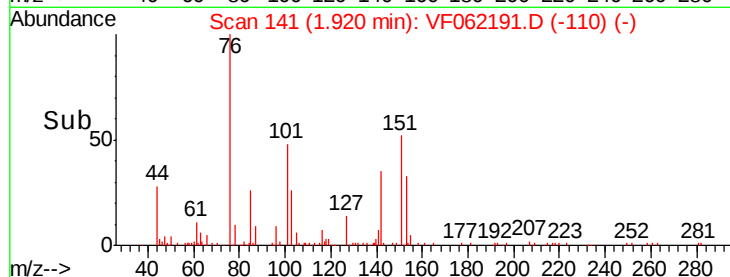
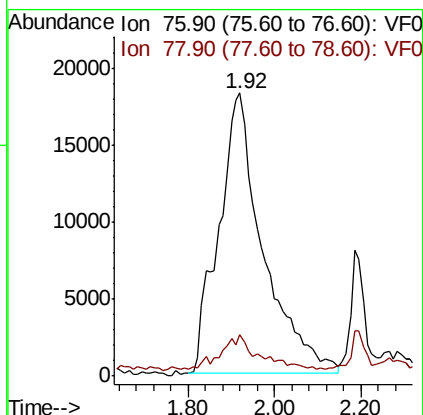
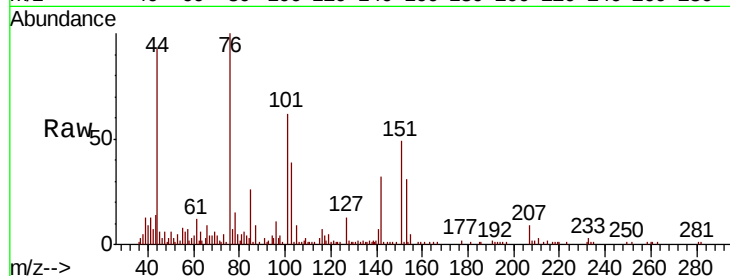




#17
Carbon Disulfide
Concen: 9.423 ug/l
RT: 1.92 min Scan# 141
Delta R.T. 0.01 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

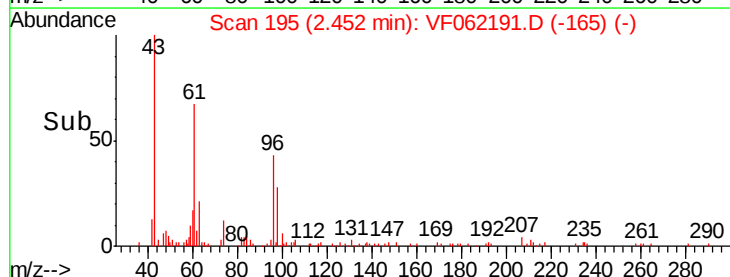
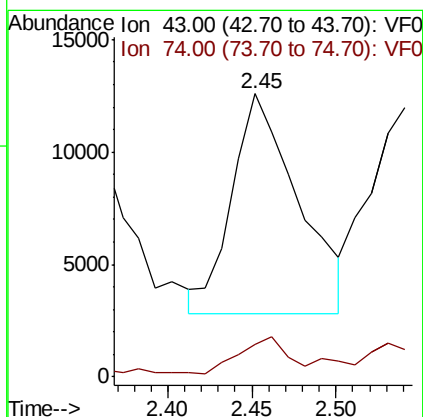
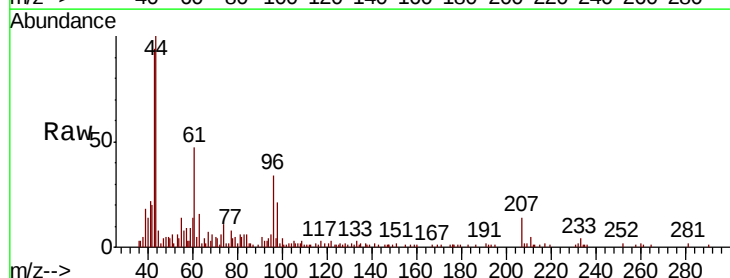
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

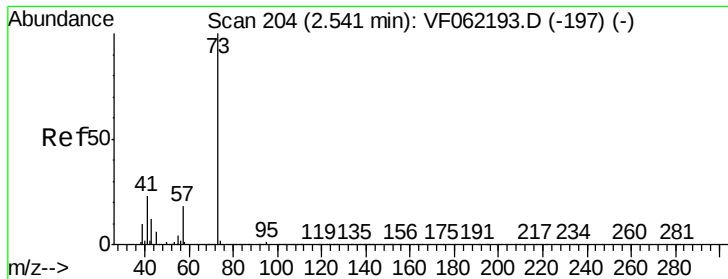
Tot Ion: 76 Resp: 129321
Ion Ratio Lower Upper
76 100
78 12.3 8.7 13.1



#18
Methyl Acetate
Concen: 3.980 ug/l
RT: 2.45 min Scan# 195
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 43 Resp: 26511
Ion Ratio Lower Upper
43 100
74 12.8 14.5 21.7#

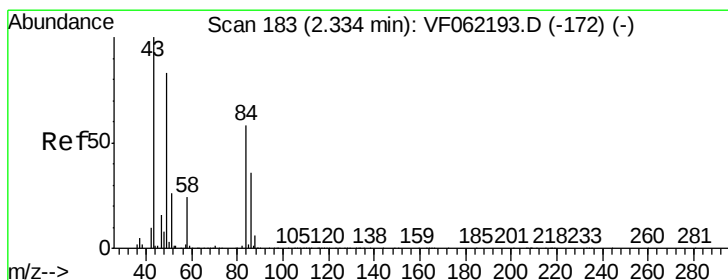
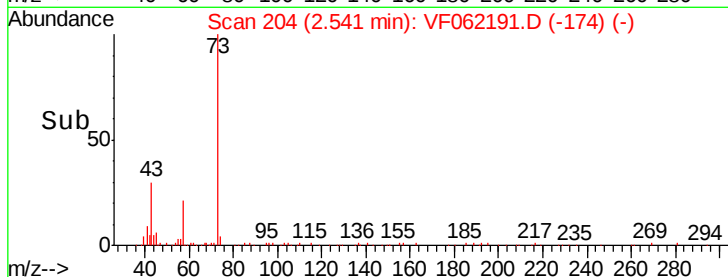
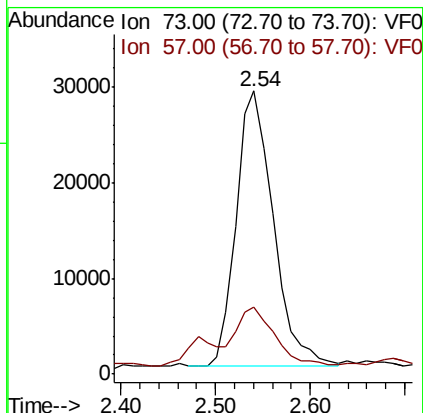
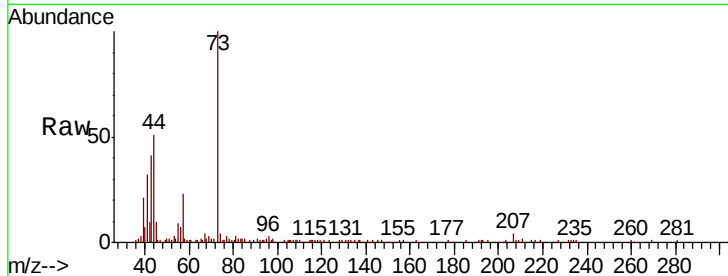




#19
Methvl tert-butvl Ether
Concen: 5.402 ug/l
RT: 2.54 min Scan# 204
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

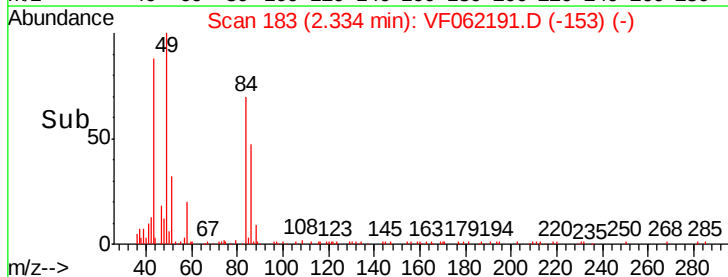
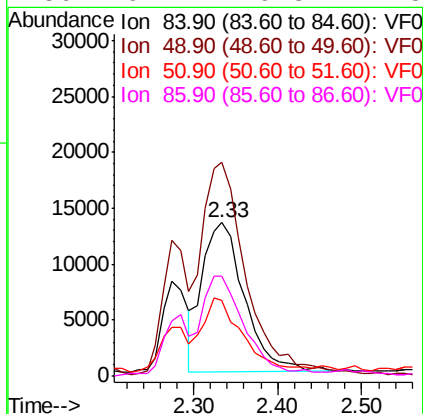
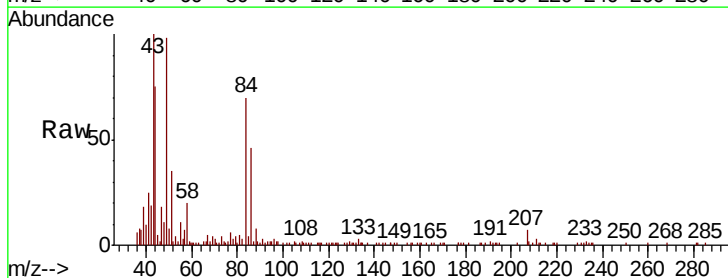
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

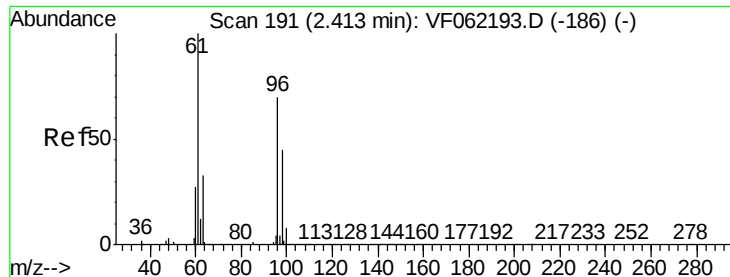
Tot Ion: 73 Resp: 78033
Ion Ratio Lower Upper
73 100
57 20.6 15.1 22.7



#20
Methylene Chloride
Concen: 9.110 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 84 Resp: 46413
Ion Ratio Lower Upper
84 100
49 140.6 114.0 171.0
51 47.0 37.0 55.4
86 64.1 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 9.844 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

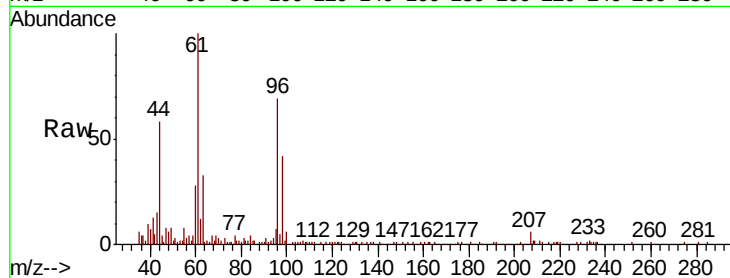
Tot Ion: 96 Resp: 46255

Ion Ratio Lower Upper

96 100

61 147.5 114.6 172.0

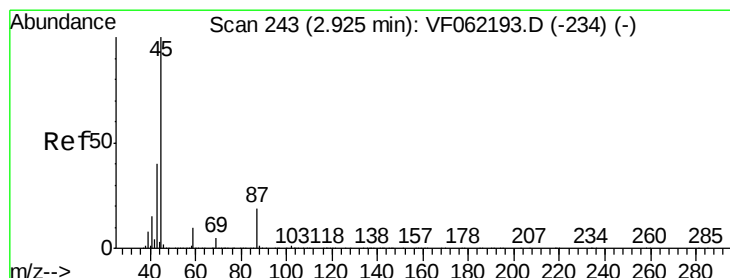
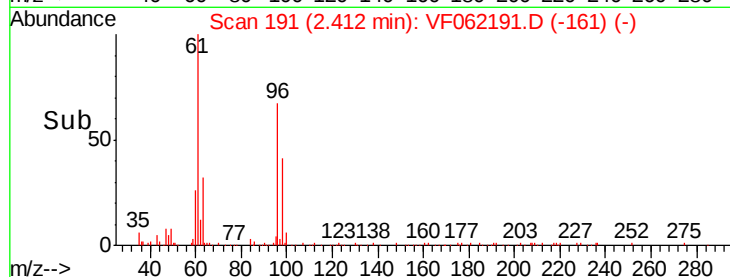
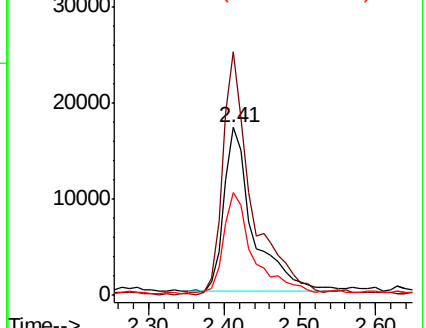
98 61.2 51.2 76.8



Abundance Ion 95.90 (95.60 to 96.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



#22

Diisopropyl ether

Concen: 7.789 ug/l

RT: 2.93 min Scan# 243

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Tgt Ion: 45 Resp: 138519

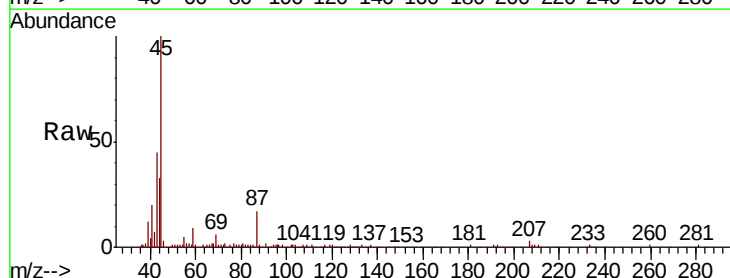
Ion Ratio Lower Upper

45 100

43 40.3 32.8 49.2

87 17.1 15.2 22.8

59 8.4 7.8 11.6

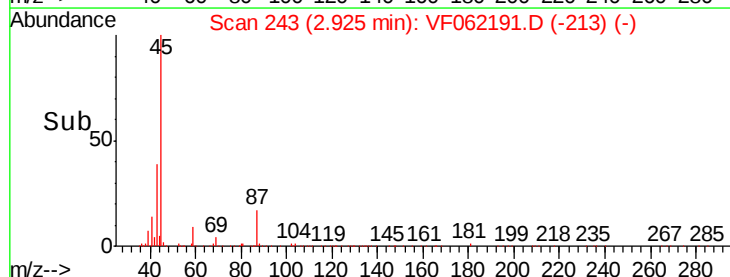
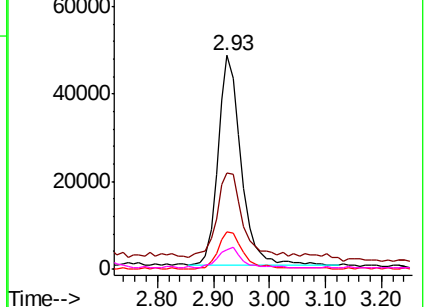


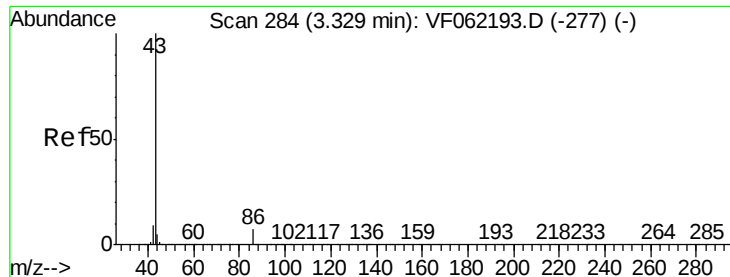
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0

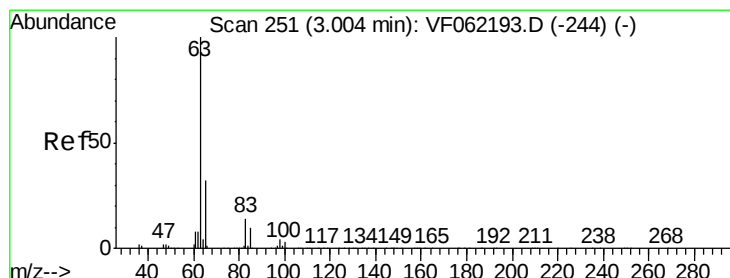
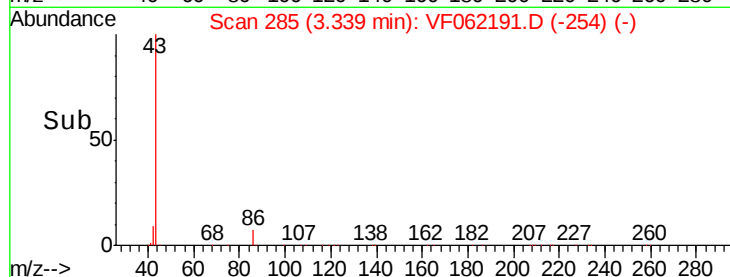
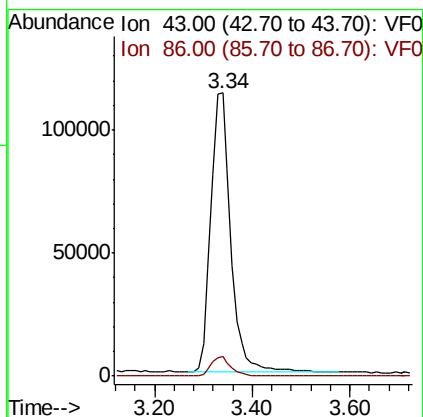
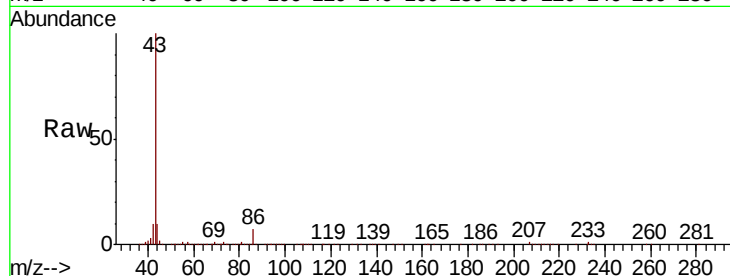




#23
 Vinyl Acetate
 Concen: 22.017 ug/l
 RT: 3.34 min Scan# 285
 Delta R.T. 0.01 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

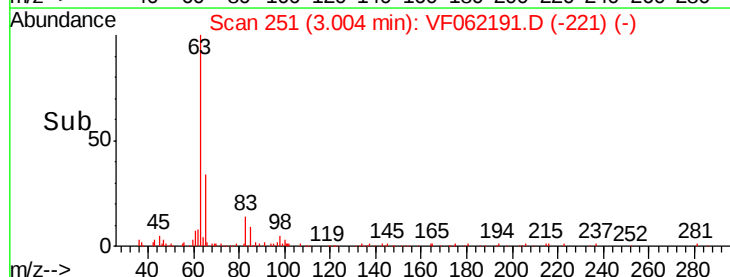
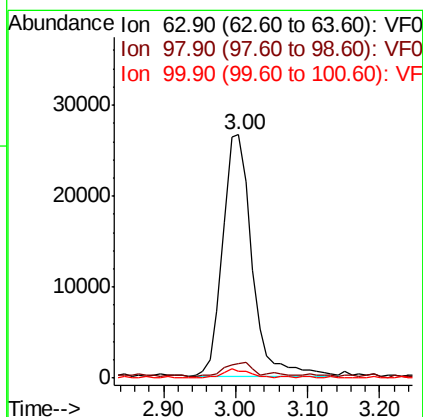
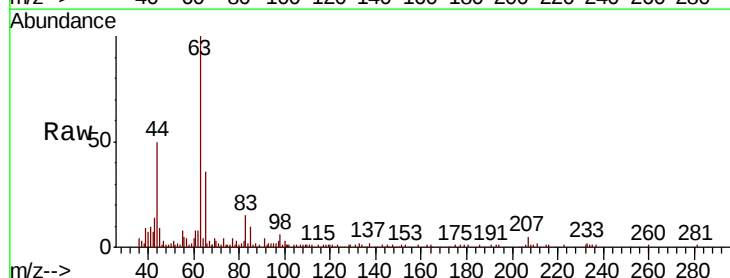
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

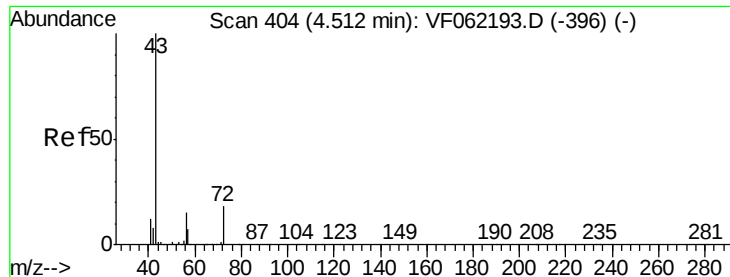
Tot Ion: 43 Resp: 324545
 Ion Ratio Lower Upper
 43 100
 86 7.2 5.9 8.9



#24
 1,1-Dichloroethane
 Concen: 8.392 ug/l
 RT: 3.00 min Scan# 251
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion: 63 Resp: 75634
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.3 6.8
 100 2.4 1.7 5.0





#25

2-Butanone

Concen: 20.920 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

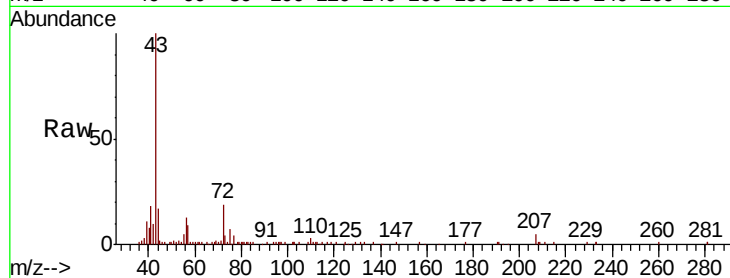
VSTDIC010

Tot Ion: 43 Resp: 89651

Ion Ratio Lower Upper

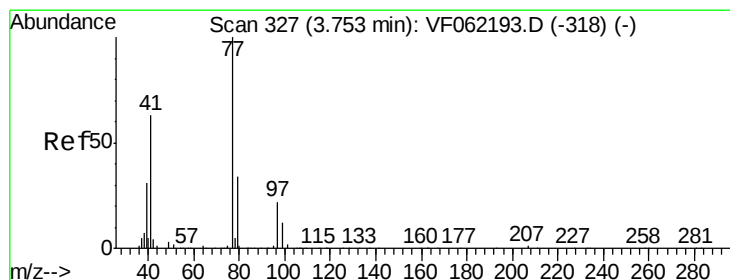
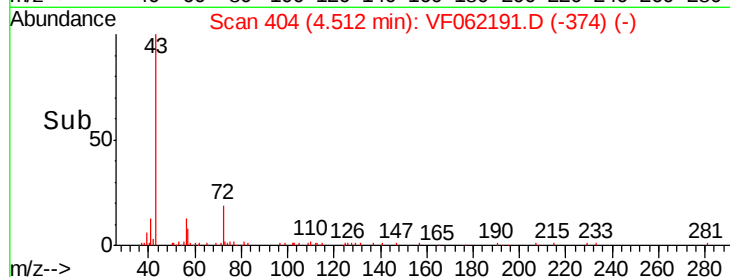
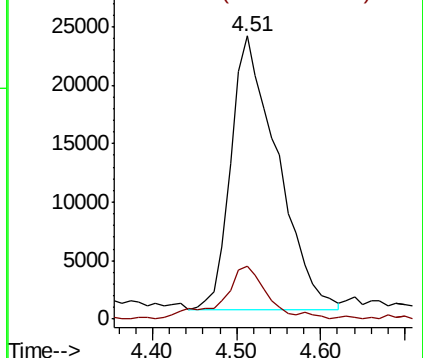
43 100

72 18.6 16.1 24.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 5.970 ug/l

RT: 3.76 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF062191.D

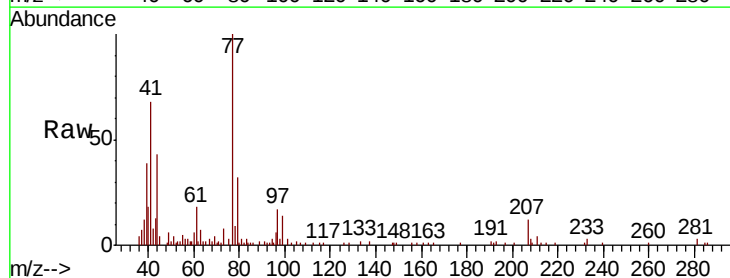
Acq: 17 Apr 2019 17:40

Tgt Ion: 77 Resp: 38525

Ion Ratio Lower Upper

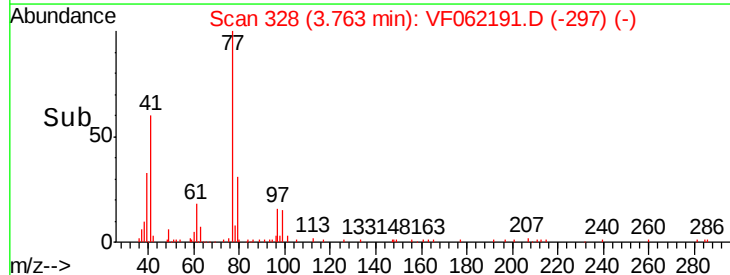
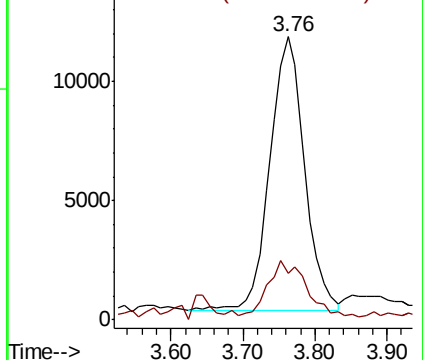
77 100

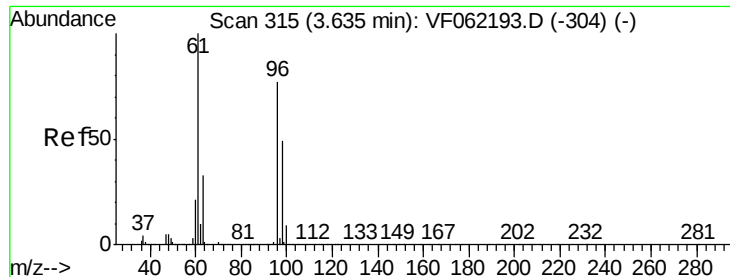
97 22.6 11.1 33.3



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0



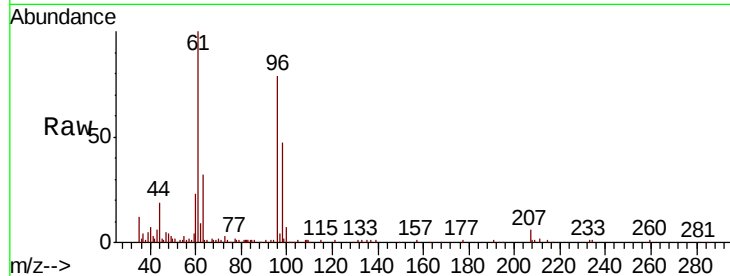


#27

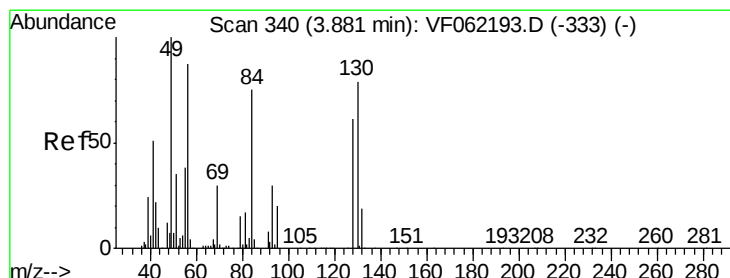
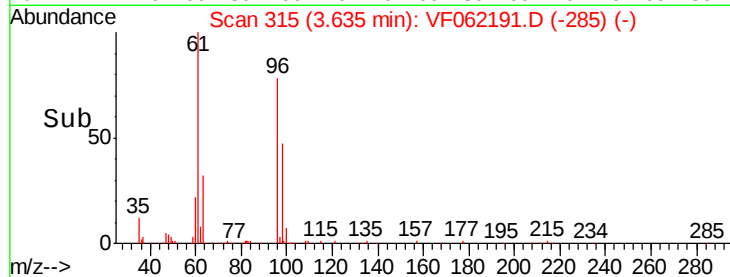
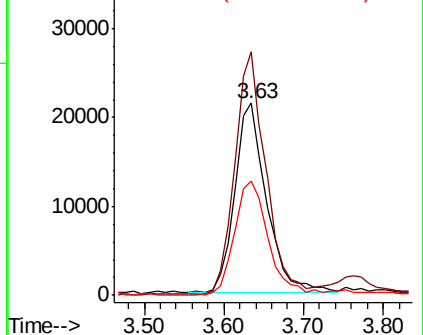
cis-1,2-Dichloroethene
 Concen: 10.801 ug/l
 RT: 3.63 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	126.1	0.0	253.6
98	62.5	0.0	124.8



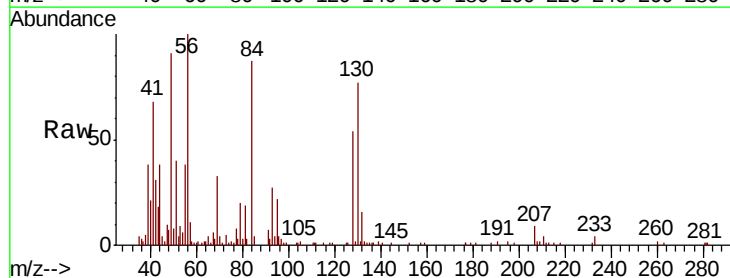
Abundance Ion 95.90 (95.60 to 96.60): VF0
 Ion 60.90 (60.60 to 61.60): VF0
 Ion 97.90 (97.60 to 98.60): VF0



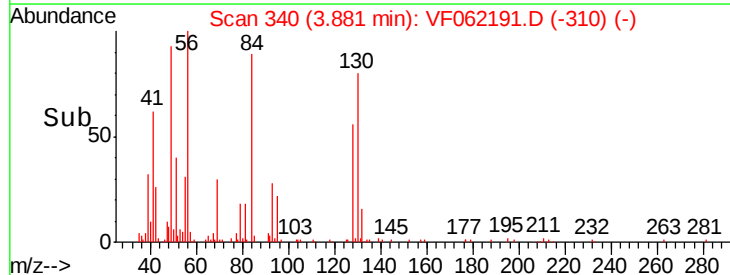
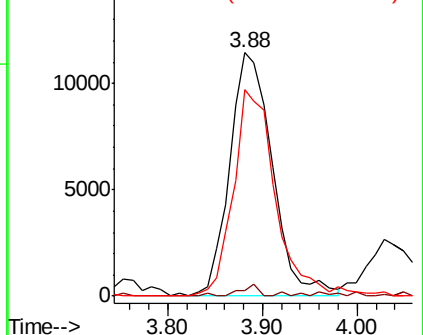
#28

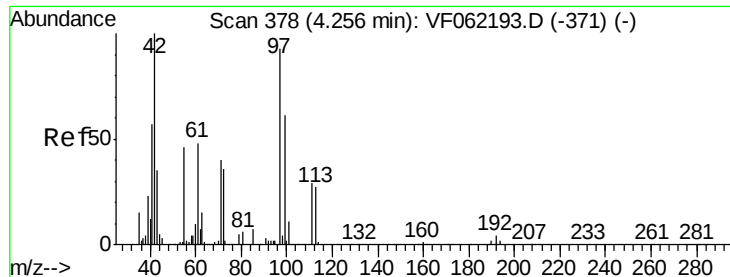
Bromochloromethane
 Concen: 8.532 ug/l
 RT: 3.88 min Scan# 340
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	0.0#
130	84.2	66.6	100.0



Abundance Ion 48.90 (48.60 to 49.60): VF0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 15.445 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

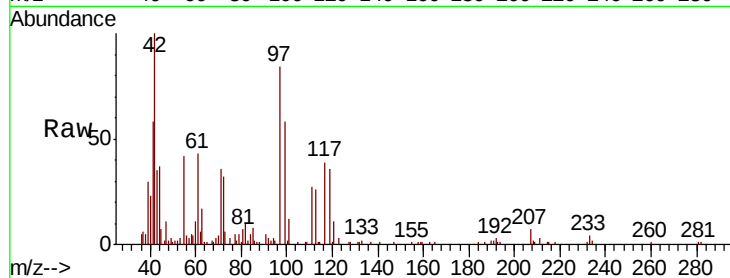
Tot Ion: 42 Resp: 43569

Ion Ratio Lower Upper

42 100

72 33.6 28.6 43.0

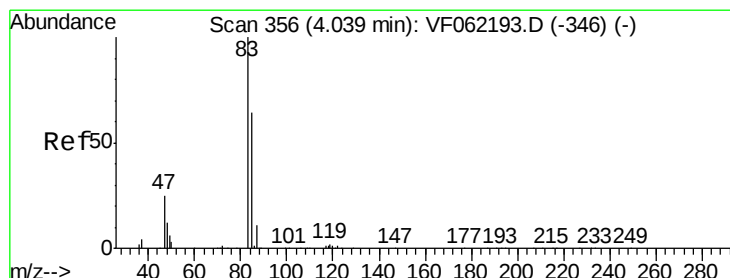
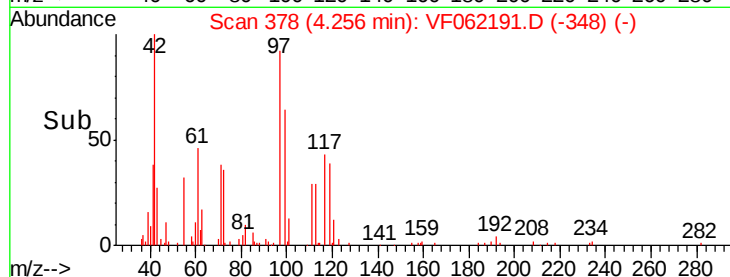
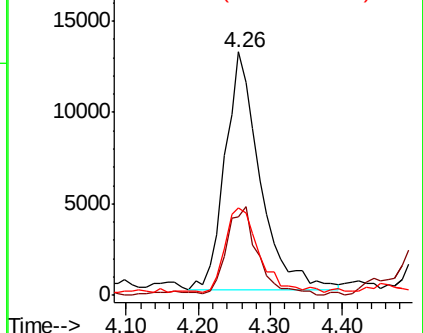
71 34.4 29.2 43.8



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 10.432 ug/l

RT: 4.04 min Scan# 356

Delta R.T. -0.00 min

Lab File: VF062191.D

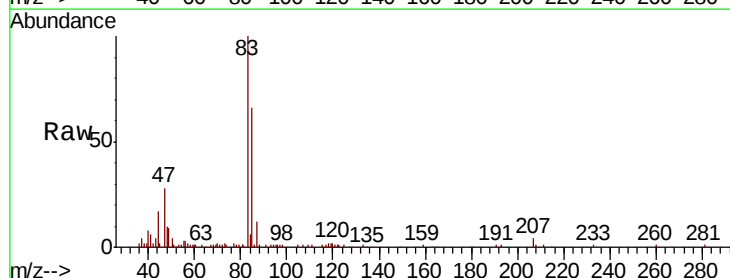
Acq: 17 Apr 2019 17:40

Tgt Ion: 83 Resp: 88765

Ion Ratio Lower Upper

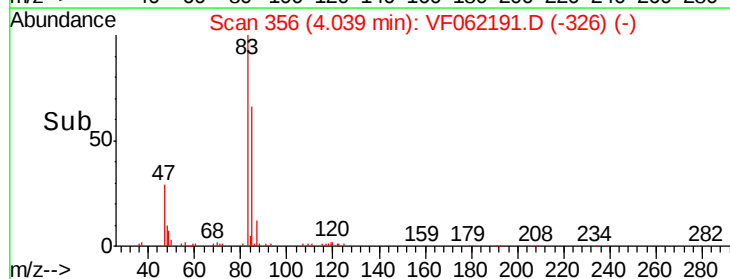
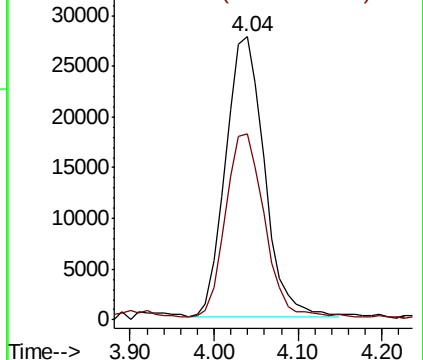
83 100

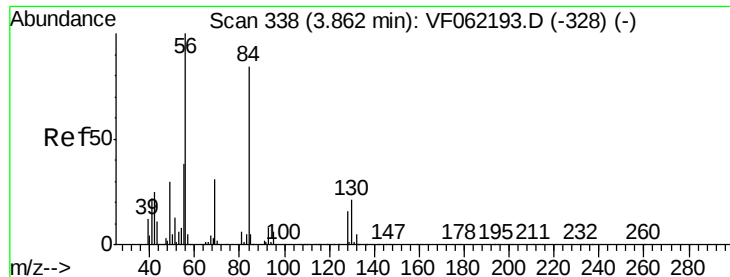
85 65.3 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0





#31

Cyclohexane

Concen: 9.993 ug/l

RT: 3.86 min Scan# 338

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

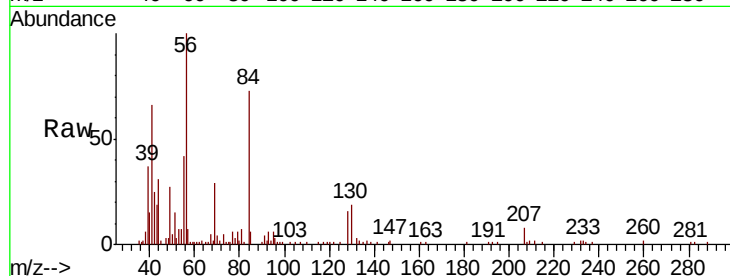
Tot Ion: 56 Resp: 91331

Ion Ratio Lower Upper

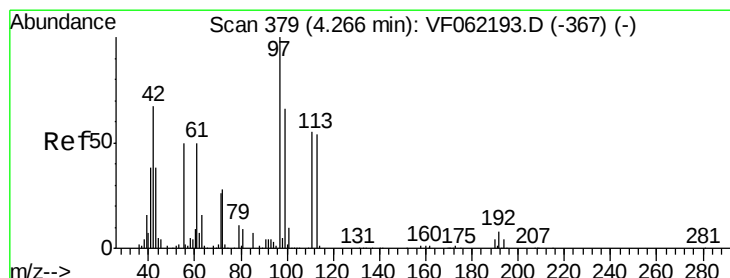
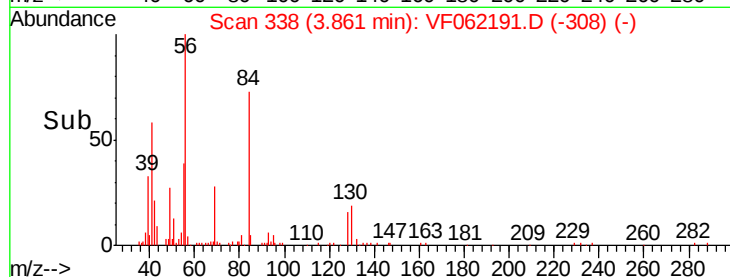
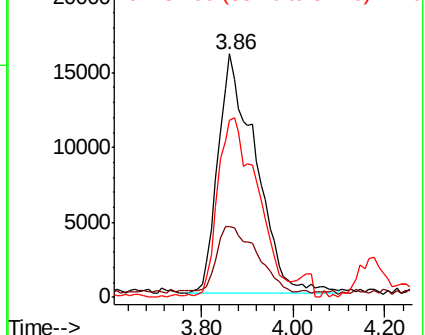
56 100

69 28.2 25.1 37.7

84 74.2 67.8 101.6



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: 10.447 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

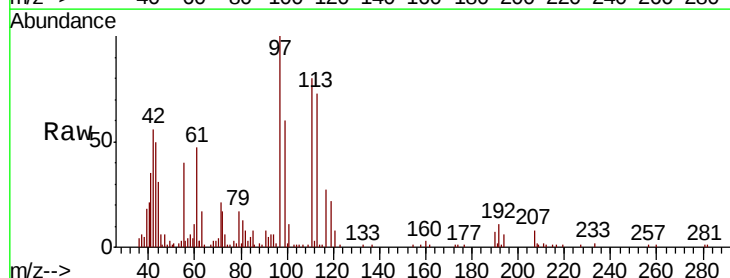
Tgt Ion: 97 Resp: 69585

Ion Ratio Lower Upper

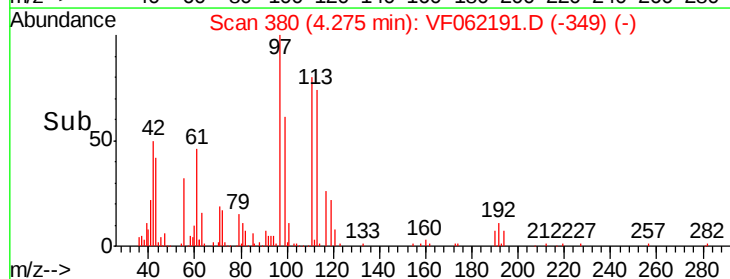
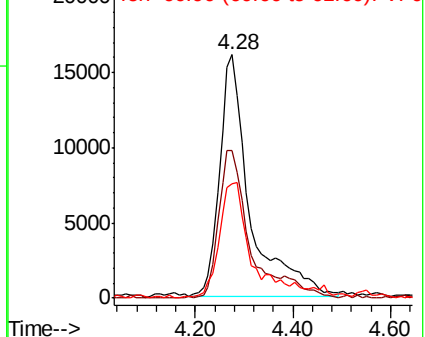
97 100

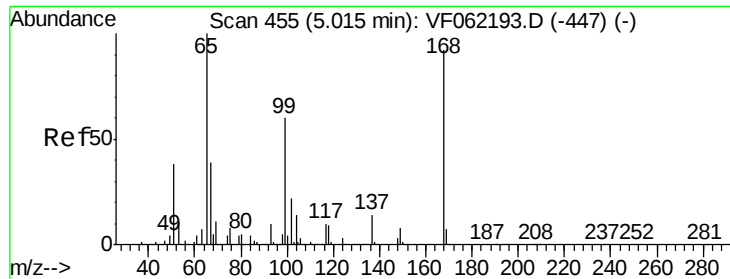
99 64.1 52.7 79.1

61 51.2 53.0 79.4#



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

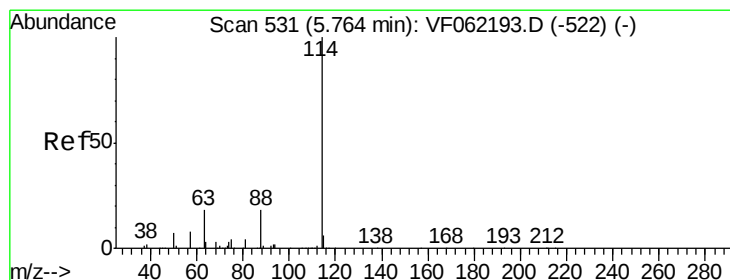
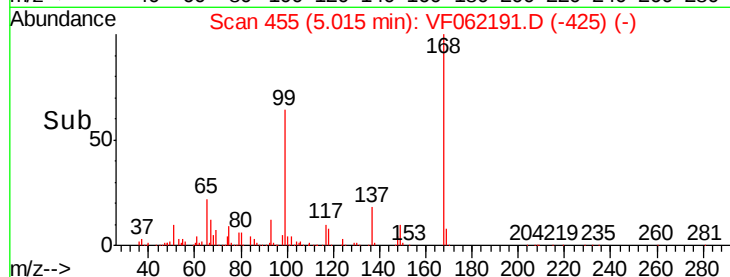
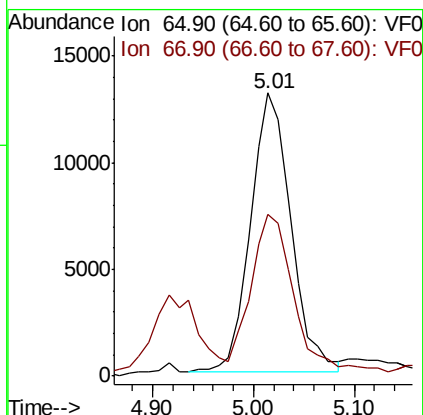
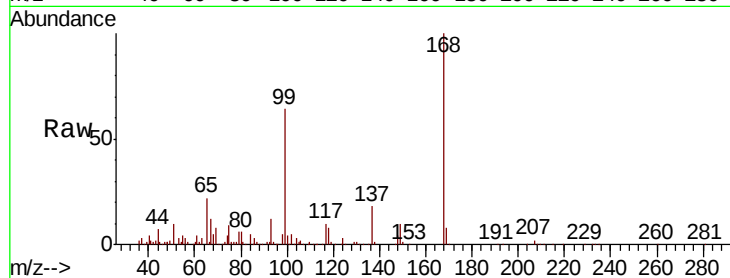




#33
 1,2-Dichloroethane-d4
 Concen: 6.639 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

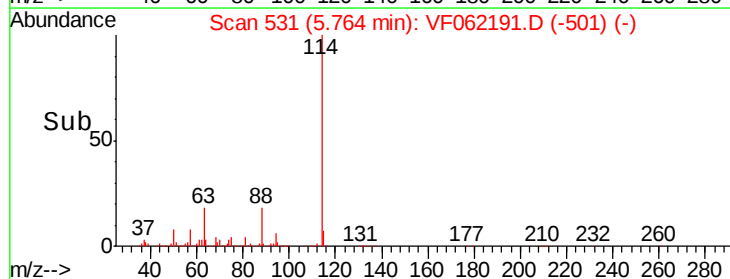
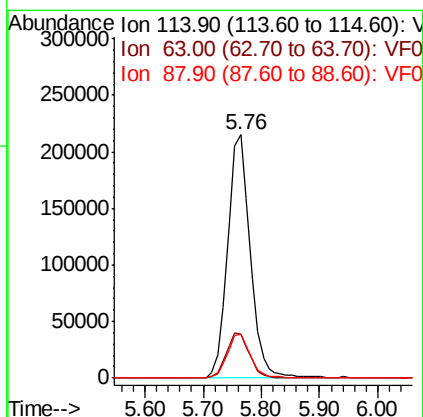
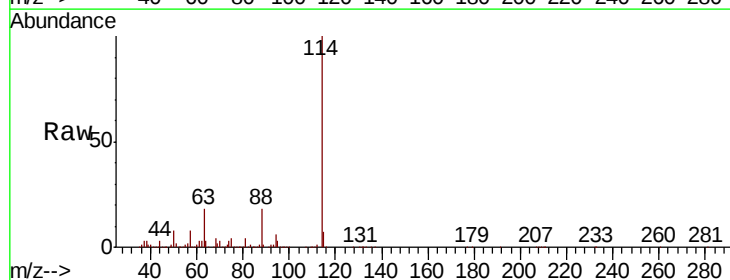
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

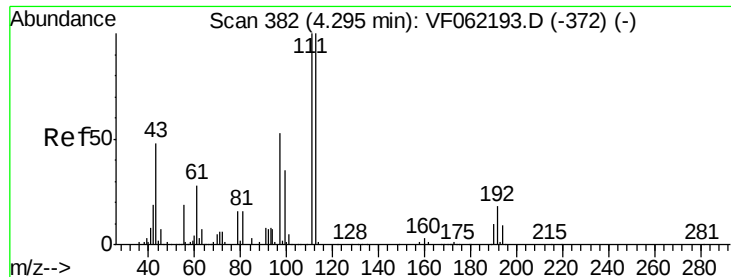
Tot Ion: 65 Resp: 36146
 Ion Ratio Lower Upper
 65 100
 67 59.1 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion: 114 Resp: 580940
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 36.6
 88 18.1 0.0 35.8





#35

Dibromofluoromethane

Concen: 13.308 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

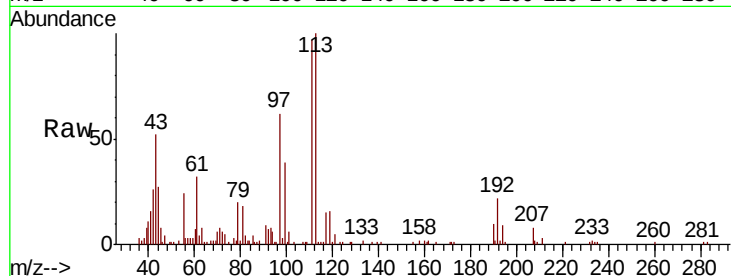
Tot Ion:113 Resp: 53019

Ion Ratio Lower Upper

113 100

111 104.9 81.1 121.7

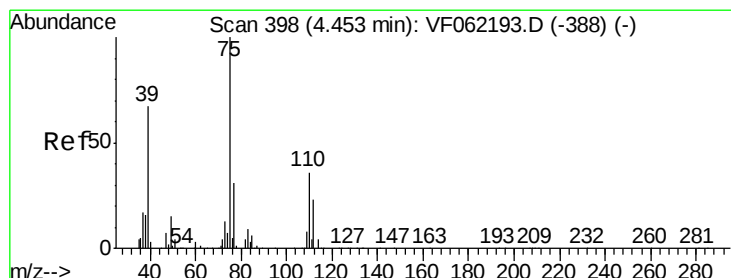
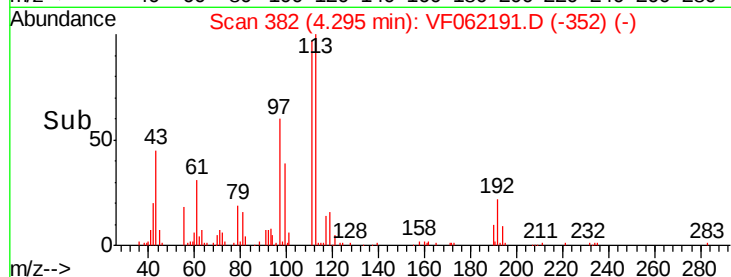
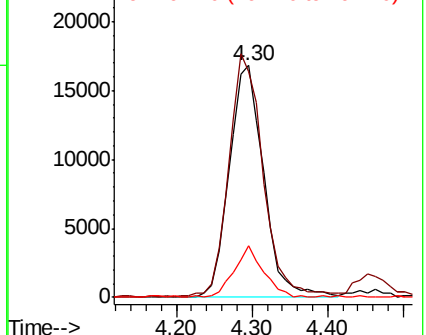
192 18.9 14.7 22.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 11.233 ug/l

RT: 4.45 min Scan# 398

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

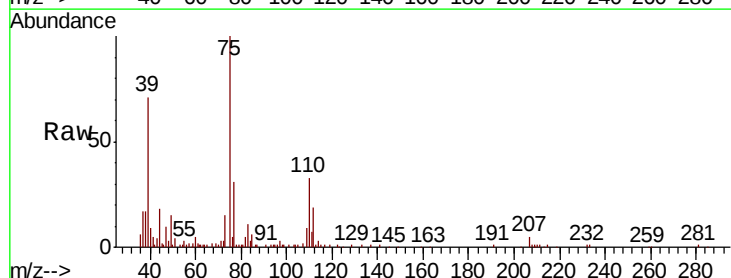
Tgt Ion: 75 Resp: 69964

Ion Ratio Lower Upper

75 100

110 37.3 18.4 55.2

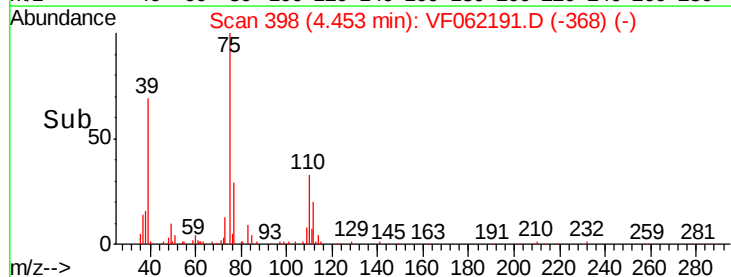
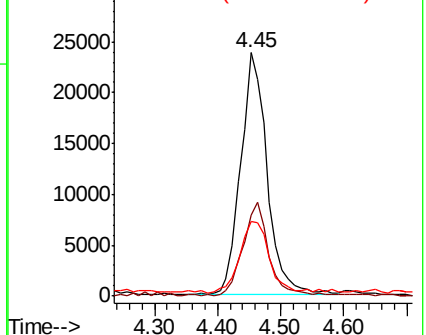
77 32.4 25.4 38.2

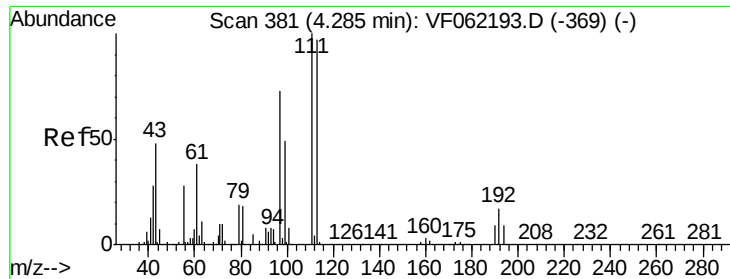


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VF0

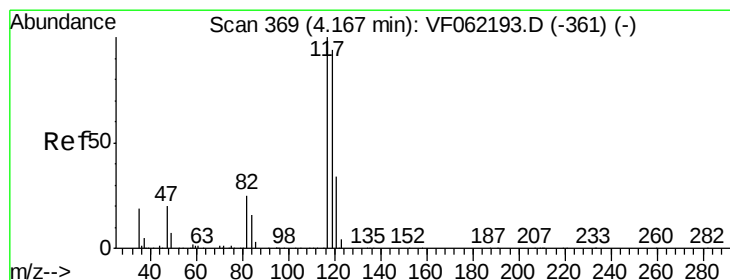
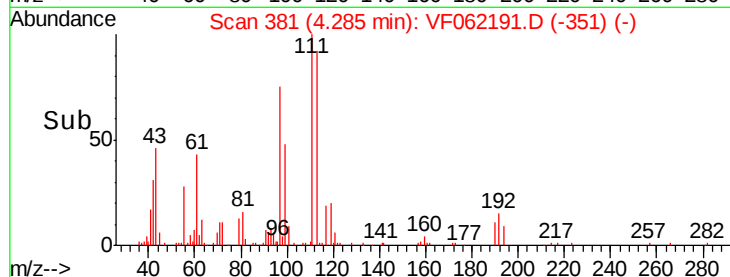
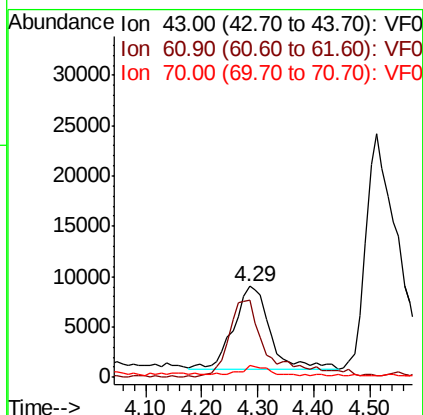
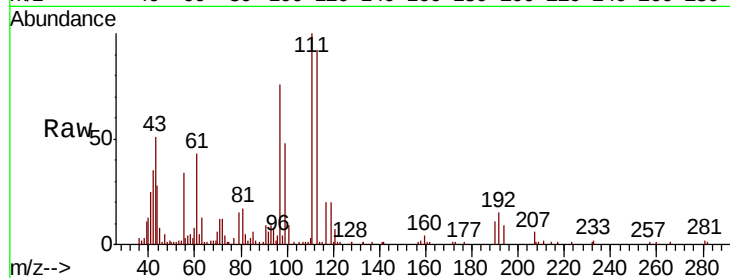




#37
Ethyl Acetate
Concen: 5.200 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

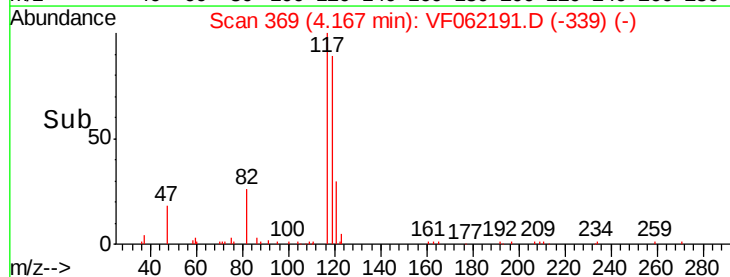
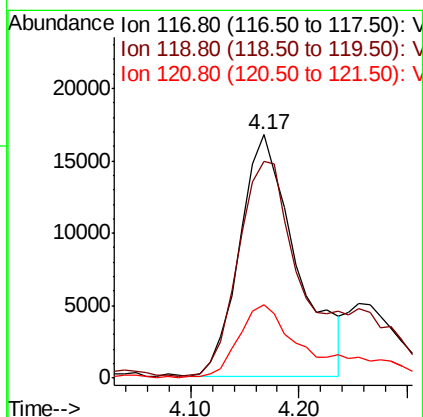
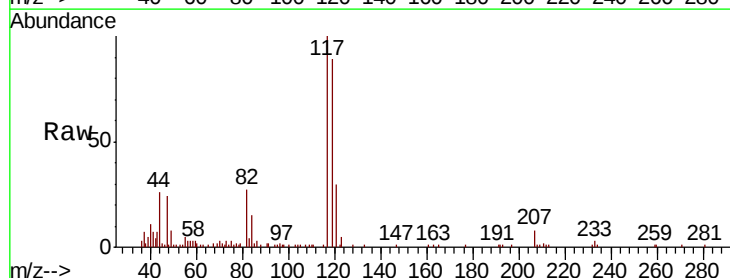
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

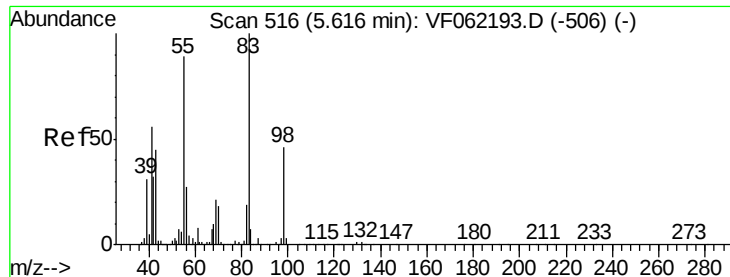
Tot Ion: 43 Resp: 36225
Ion Ratio Lower Upper
43 100
61 98.4 0.0 0.0#
70 8.8 7.8 11.6



#38
Carbon Tetrachloride
Concen: 11.732 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 117 Resp: 61053
Ion Ratio Lower Upper
117 100
119 88.3 75.0 112.4
121 29.7 26.9 40.3

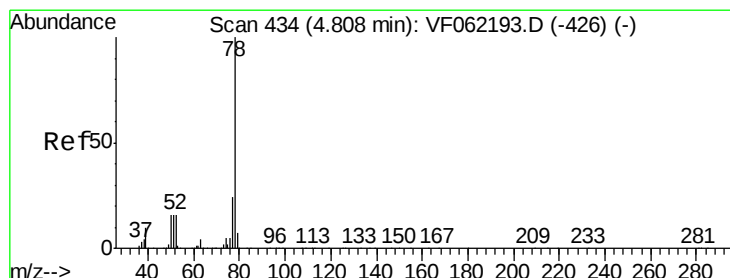
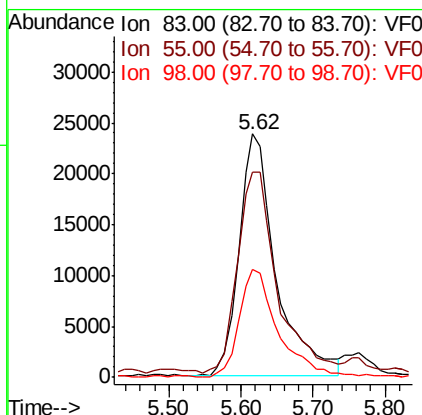
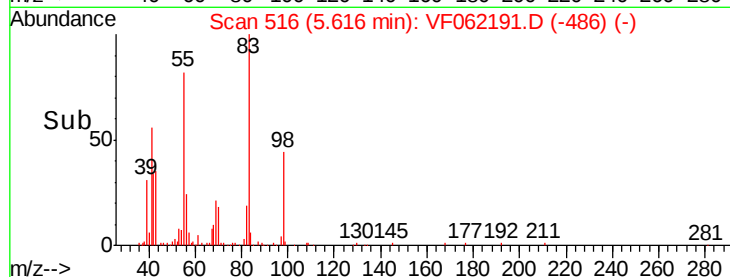
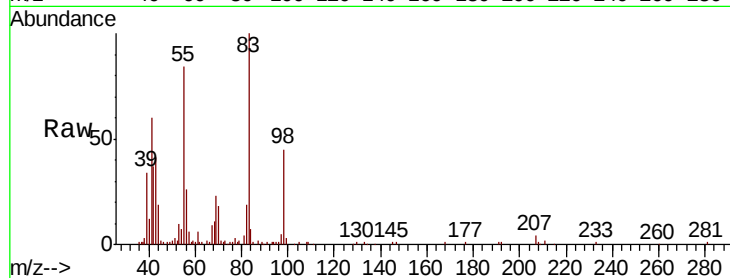




#39
Methvlcvclohexane
Concen: 11.339 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

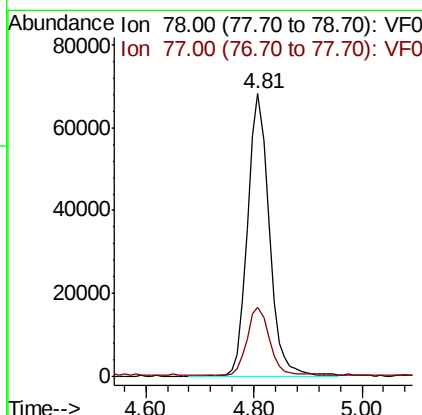
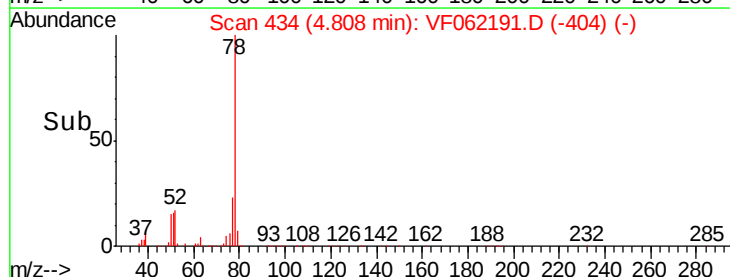
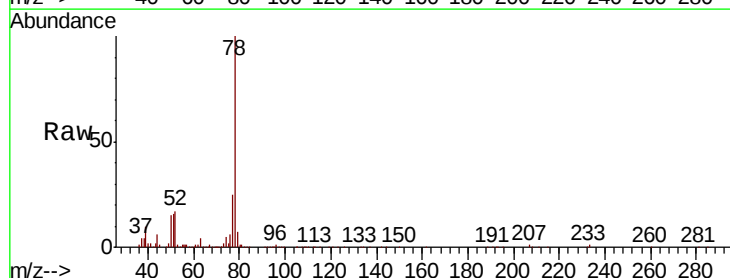
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

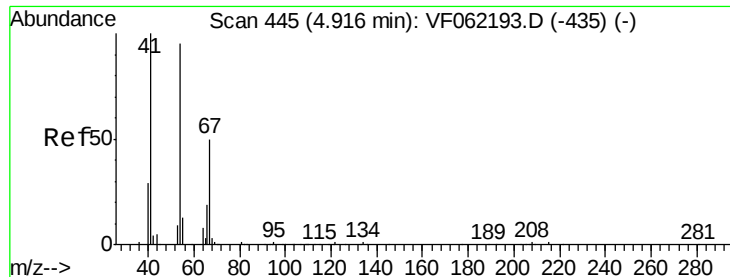
Tot Ion: 83 Resp: 85277
Ion Ratio Lower Upper
83 100
55 81.9 71.0 106.6
98 44.3 36.7 55.1



#40
Benzene
Concen: 10.601 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 78 Resp: 189346
Ion Ratio Lower Upper
78 100
77 24.1 18.9 28.3

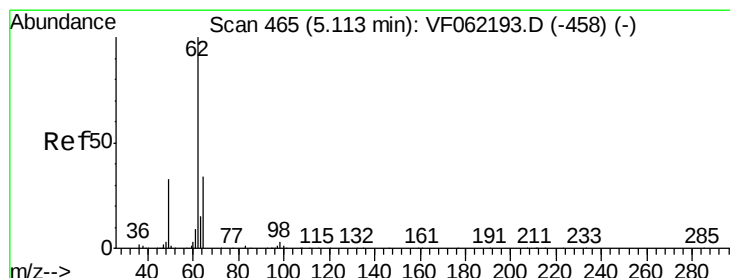
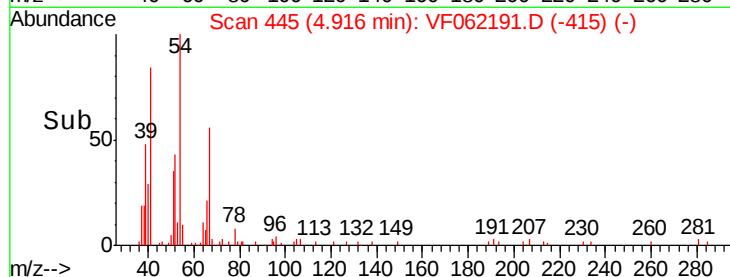
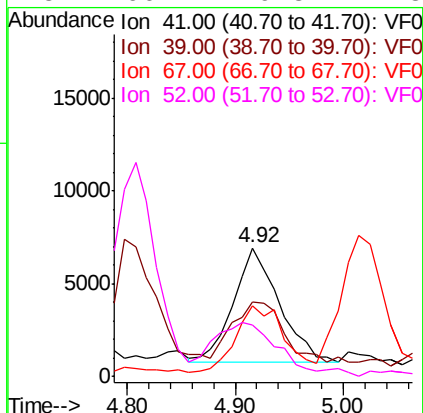
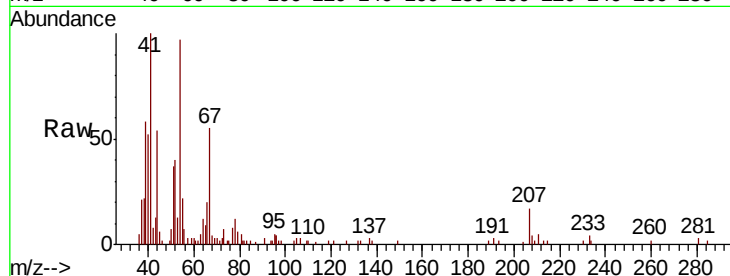




#41
Methacrylonitrile
Concen: 4.490 ug/l
RT: 4.92 min Scan# 445
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

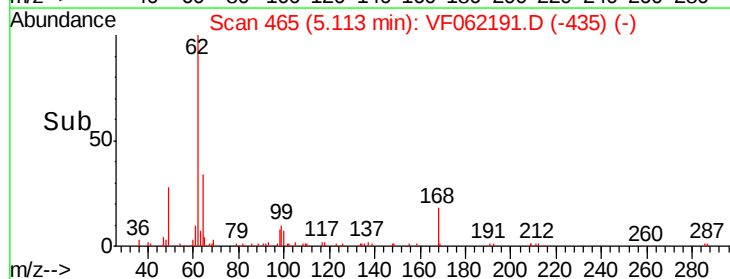
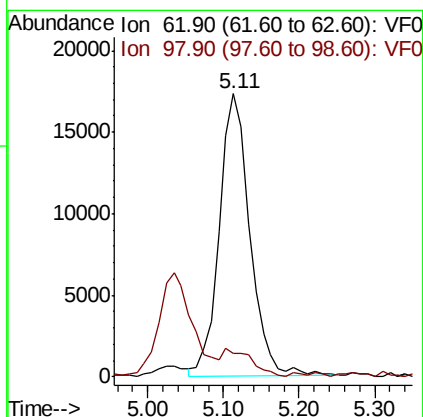
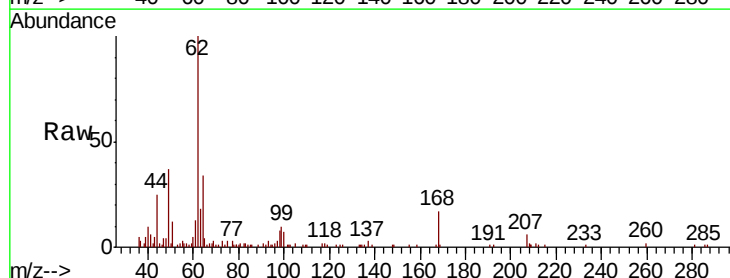
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

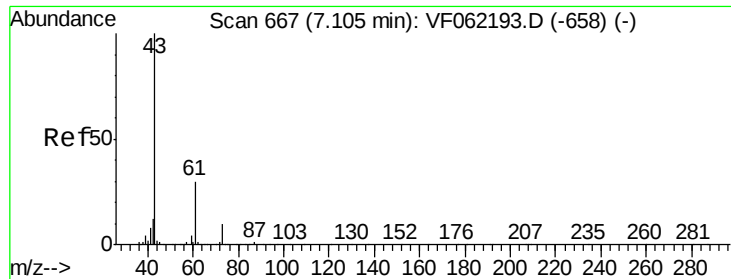
Tot Ion:	41	Resp:	18088
Ion	Ratio	Lower	Upper
41	100		
39	67.4	44.7	67.1#
67	62.7	39.1	58.7#
52	66.2	49.8	74.8



#42
1,2-Dichloroethane
Concen: 7.972 ug/l
RT: 5.11 min Scan# 465
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion:	62	Resp:	48476
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.0





#43

Isopropyl Acetate

Concen: 2.941 ug/l

RT: 7.10 min Scan# 667

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

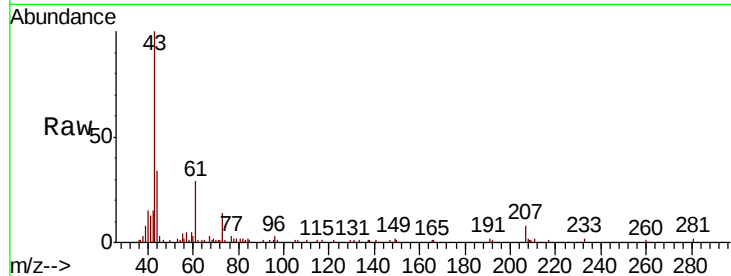
Tot Ion: 43 Resp: 32280

Ion Ratio Lower Upper

43 100

61 30.9 24.4 36.6

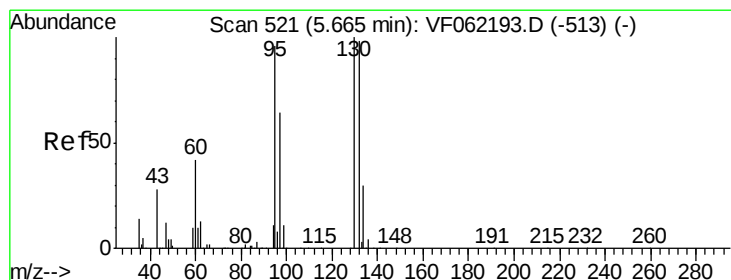
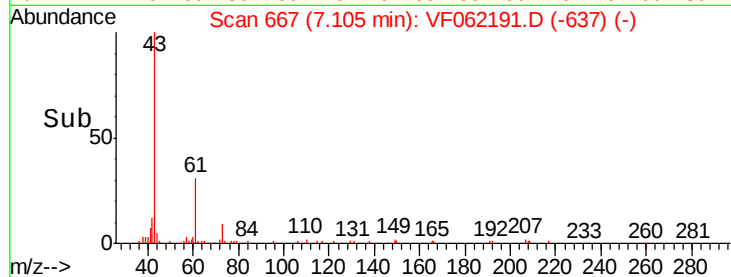
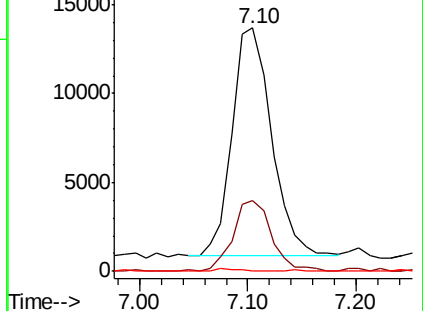
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 11.635 ug/l

RT: 5.67 min Scan# 521

Delta R.T. -0.00 min

Lab File: VF062191.D

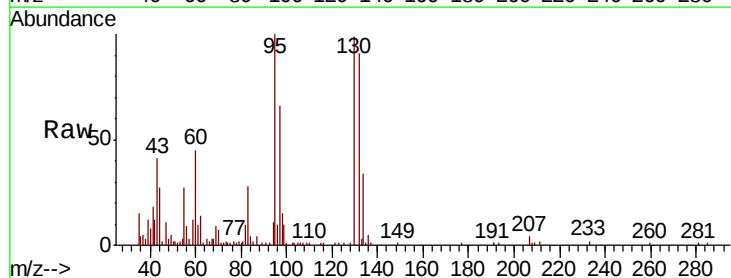
Acq: 17 Apr 2019 17:40

Tgt Ion: 130 Resp: 52135

Ion Ratio Lower Upper

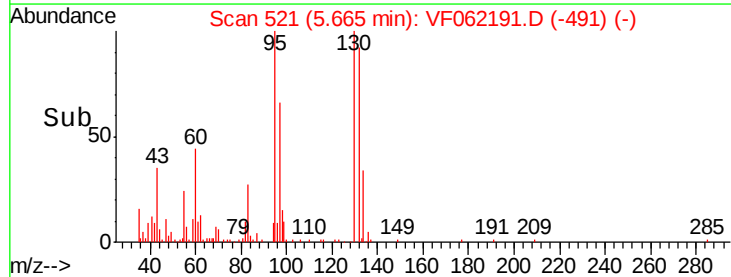
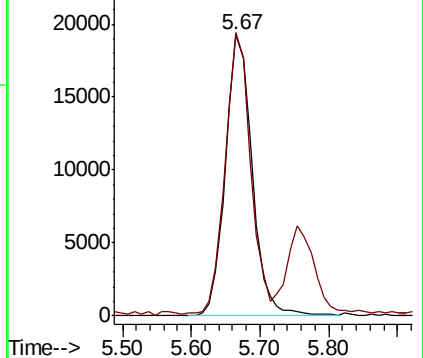
130 100

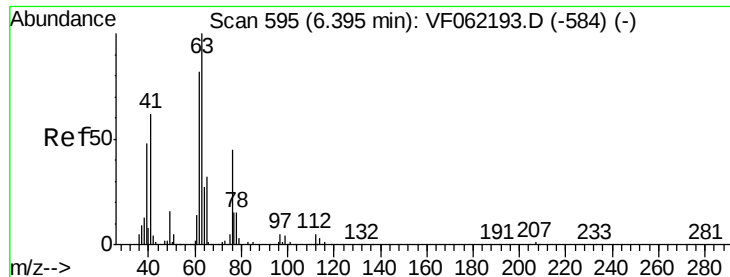
95 99.5 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 8.484 ug/l

RT: 6.39 min Scan# 595

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

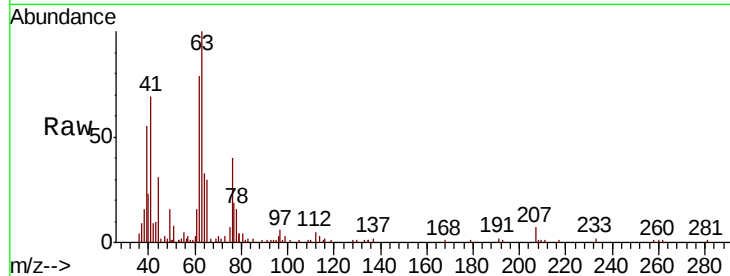
VSTDIC010

Tot Ion: 63 Resp: 40519

Ion Ratio Lower Upper

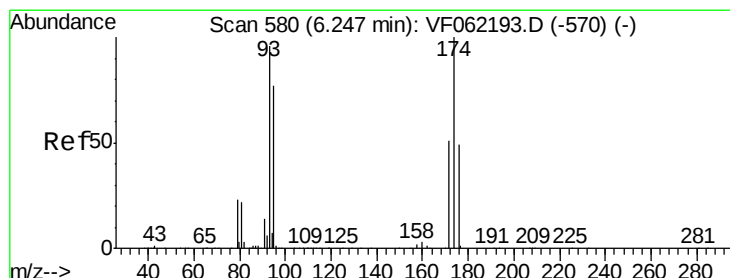
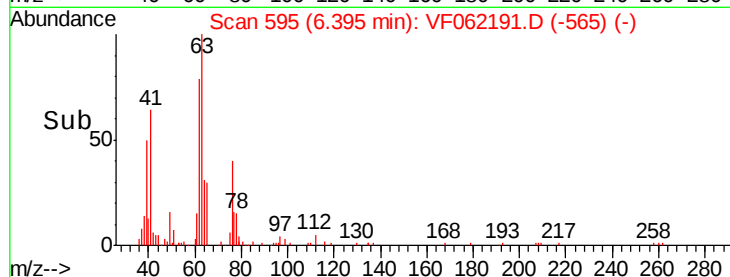
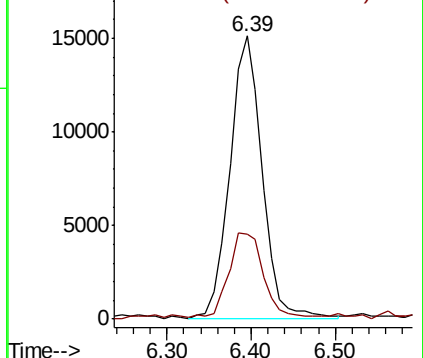
63 100

65 29.1 25.9 38.9



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0



#46

Dibromomethane

Concen: 9.427 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

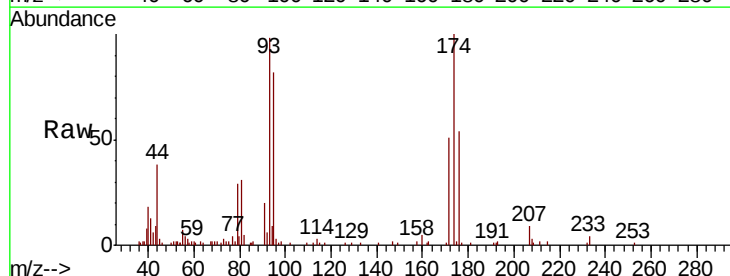
Tgt Ion: 93 Resp: 26987

Ion Ratio Lower Upper

93 100

95 81.4 65.1 97.7

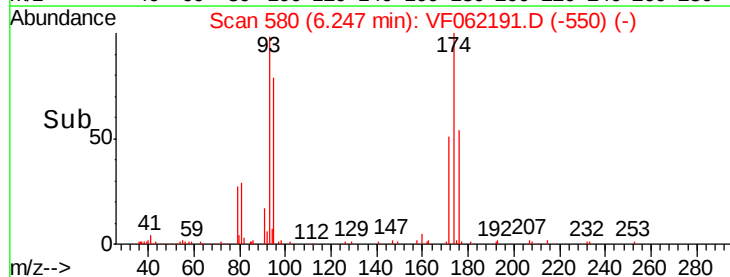
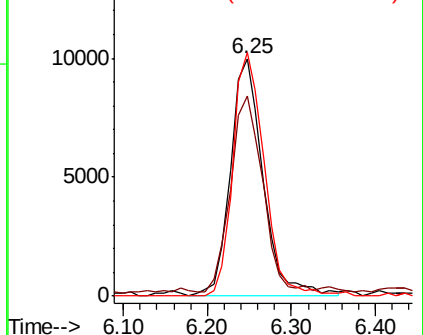
174 99.2 81.8 122.6

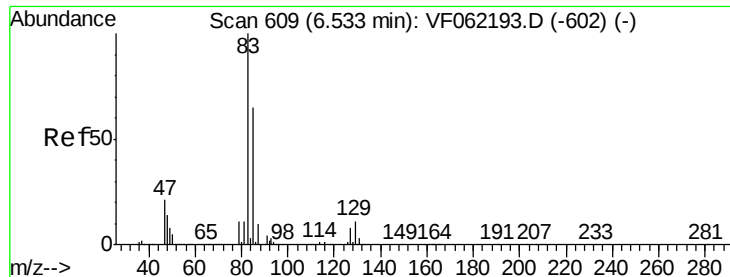


Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 10.702 ug/l

RT: 6.54 min Scan# 610

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

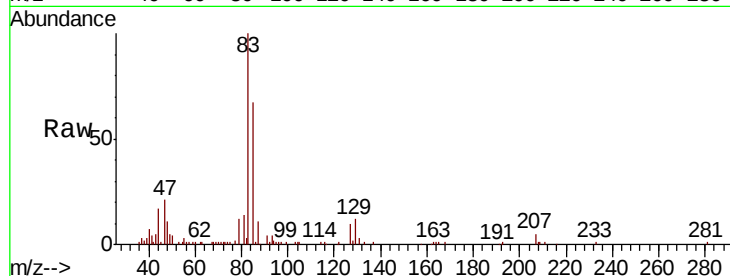
Tot Ion: 83 Resp: 60811

Ion Ratio Lower Upper

83 100

85 67.1 52.2 78.4

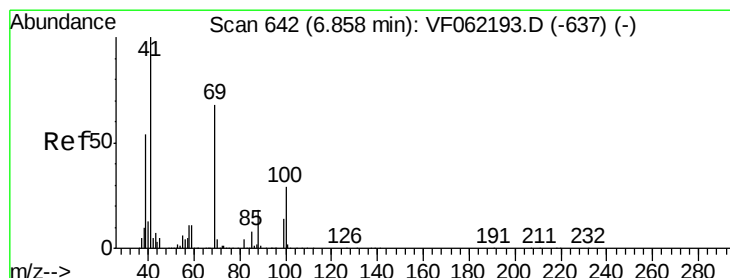
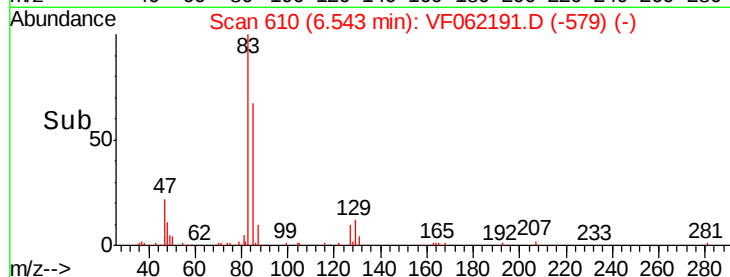
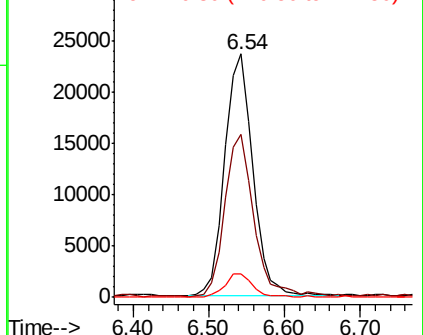
127 9.8 6.7 10.1



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: 3.843 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

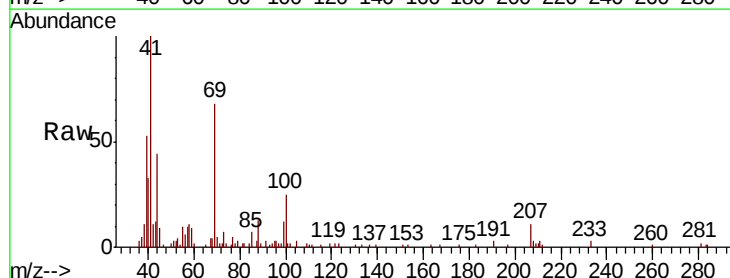
Tgt Ion: 41 Resp: 21162

Ion Ratio Lower Upper

41 100

69 67.5 54.9 82.3

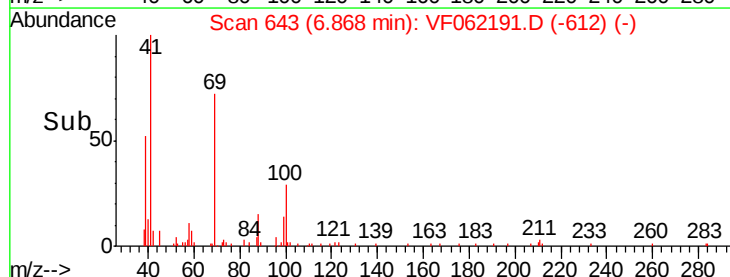
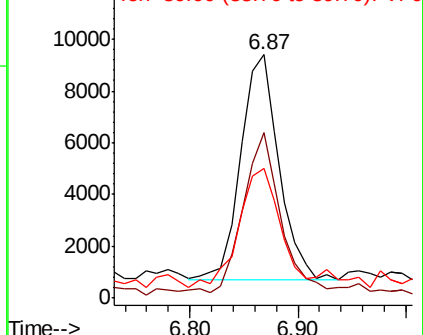
39 58.4 43.6 65.4

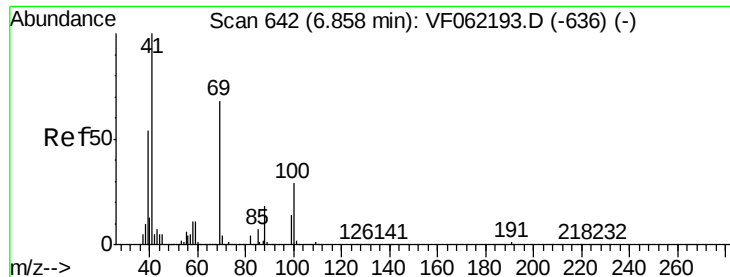


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

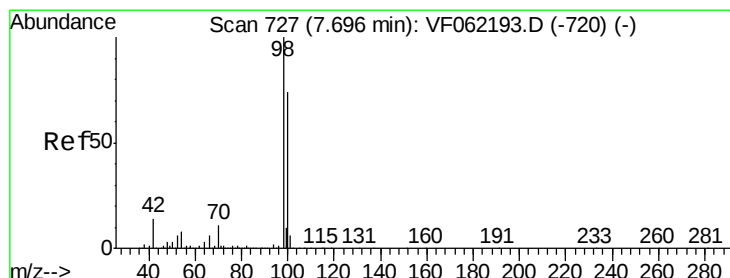
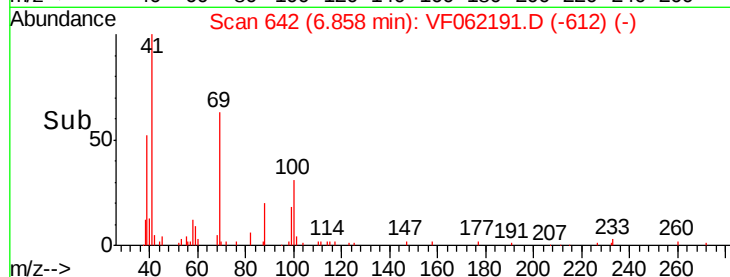
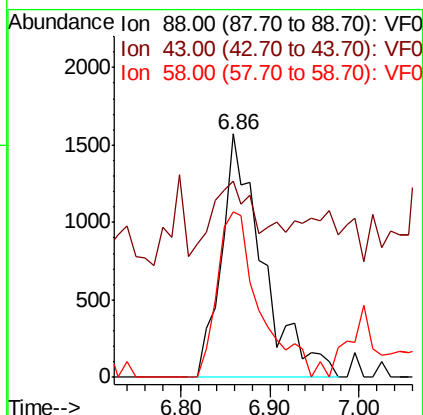
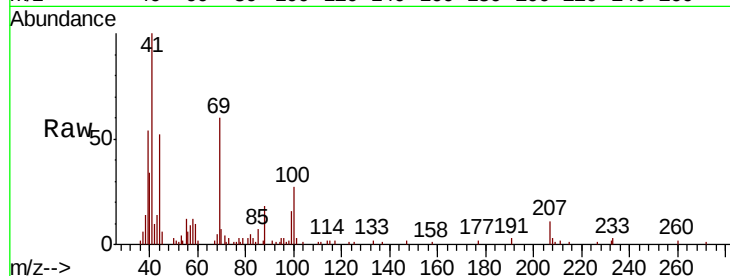




#49
 1,4-Dioxane
 Concen: 49.967 ug/l
 RT: 6.86 min Scan# 642
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

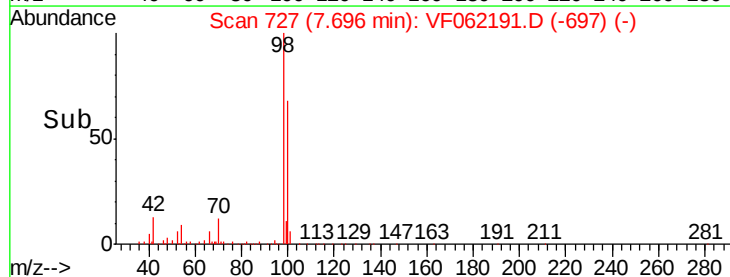
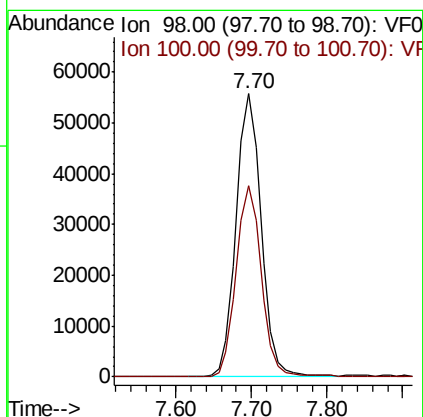
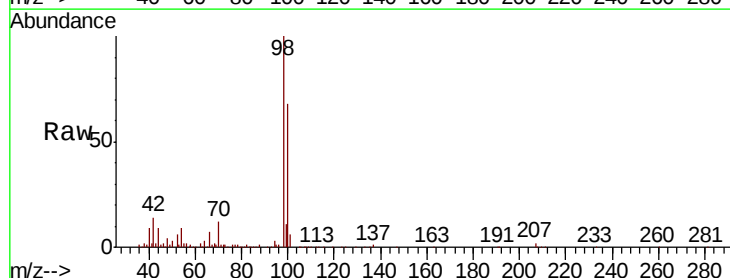
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

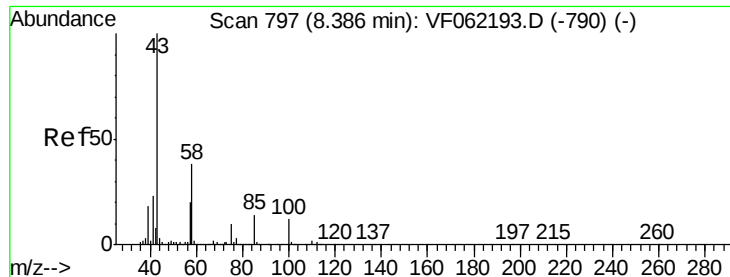
Tot Ion: 88 Resp: 5100
 Ion Ratio Lower Upper
 88 100
 43 23.5 36.9 55.3#
 58 69.3 56.8 85.2



#50
 Toluene-d8
 Concen: 8.844 ug/l
 RT: 7.70 min Scan# 727
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion: 98 Resp: 128465
 Ion Ratio Lower Upper
 98 100
 100 67.9 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 18.490 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

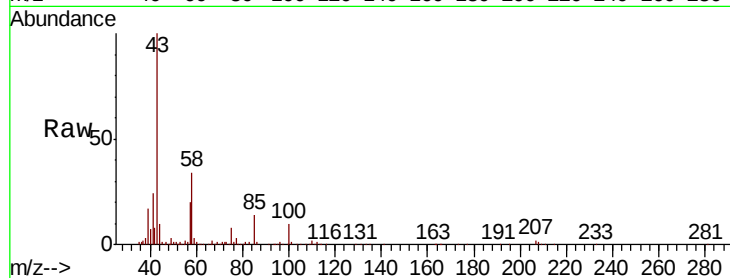
VSTDIC010

Tot Ion: 43 Resp: 130386

Ion Ratio Lower Upper

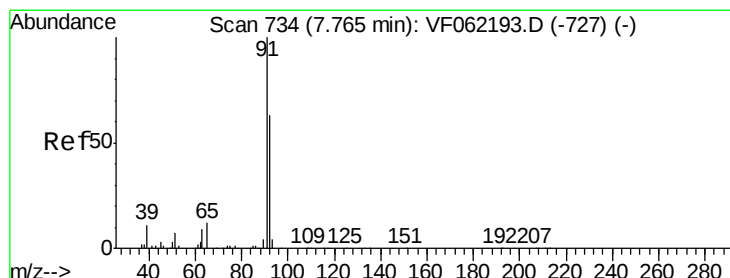
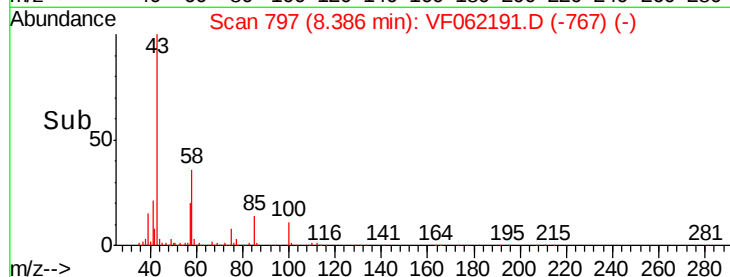
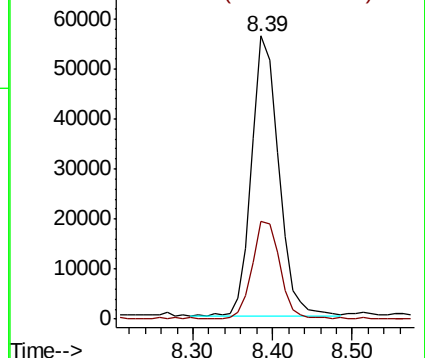
43 100

58 36.2 29.3 43.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 9.146 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF062191.D

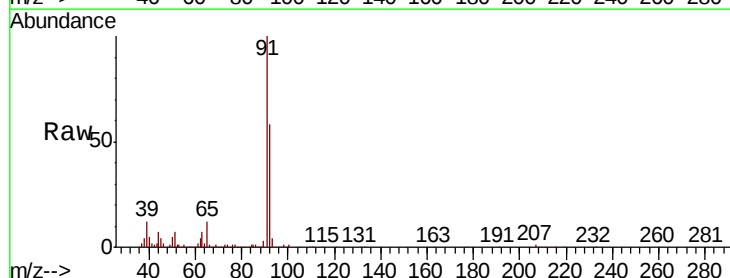
Acq: 17 Apr 2019 17:40

Tgt Ion: 92 Resp: 96503

Ion Ratio Lower Upper

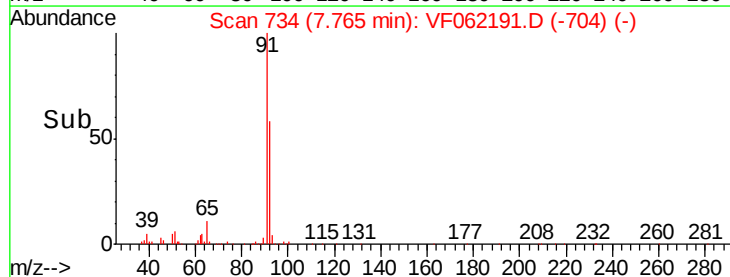
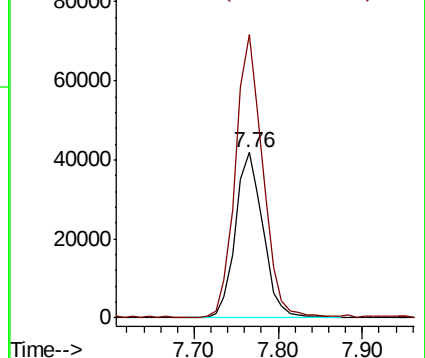
92 100

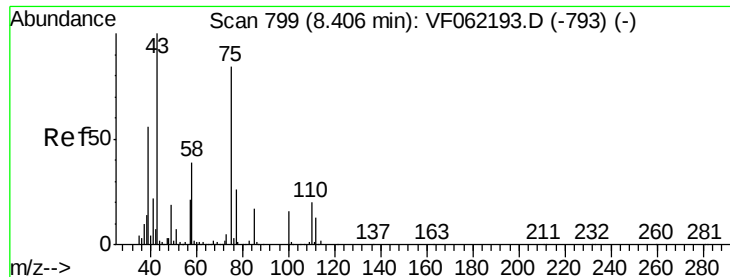
91 167.0 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

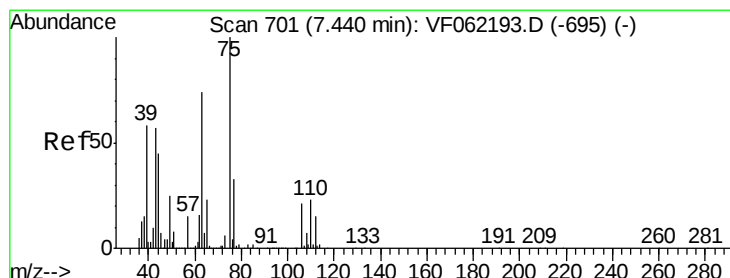
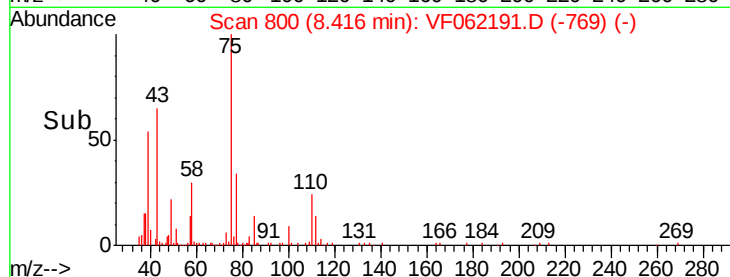
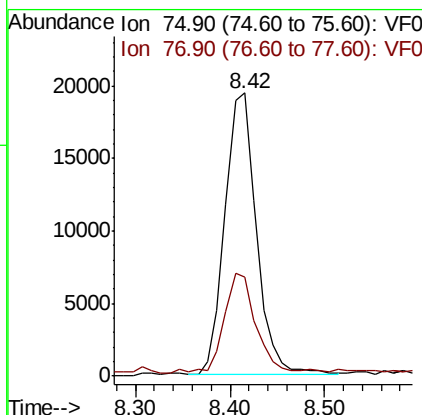
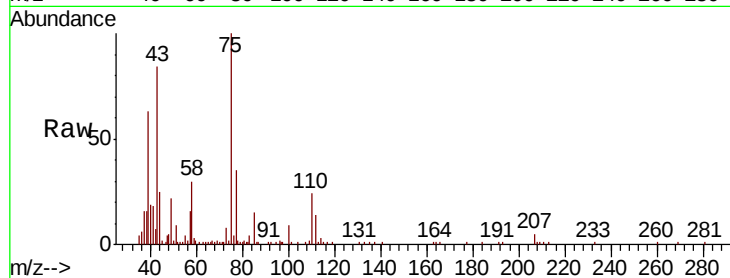




#53
 t-1,3-Dichloropropene
 Concen: 7.378 ug/l
 RT: 8.42 min Scan# 800
 Delta R.T. 0.01 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

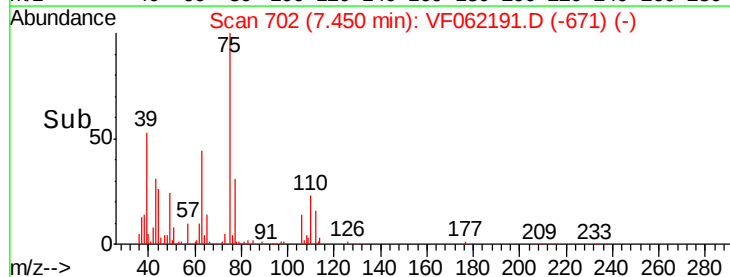
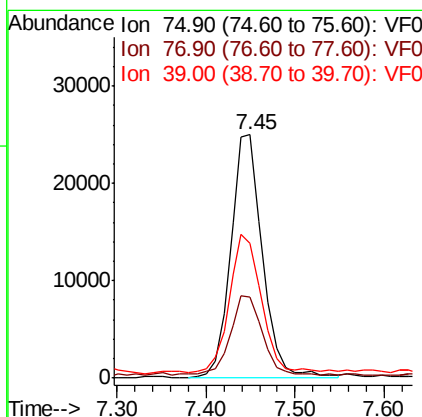
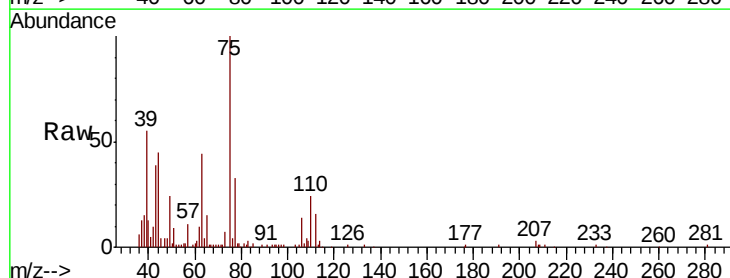
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

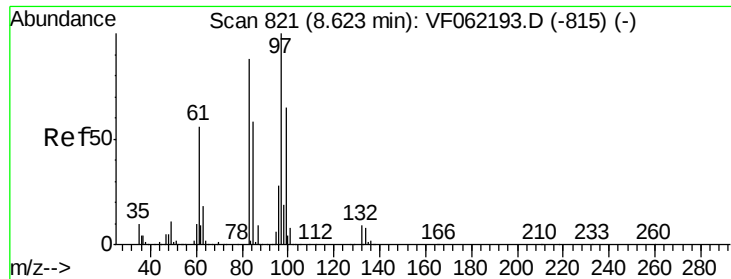
Tot Ion: 75 Resp: 45107
 Ion Ratio Lower Upper
 75 100
 77 33.9 24.6 36.8



#54
 cis-1,3-Dichloropropene
 Concen: 8.844 ug/l
 RT: 7.45 min Scan# 702
 Delta R.T. 0.01 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion: 75 Resp: 62297
 Ion Ratio Lower Upper
 75 100
 77 32.2 26.4 39.6
 39 52.9 46.7 70.1





#55

1,1,2-Trichloroethane

Concen: 6.853 ug/l

RT: 8.62 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 97 Resp: 27249

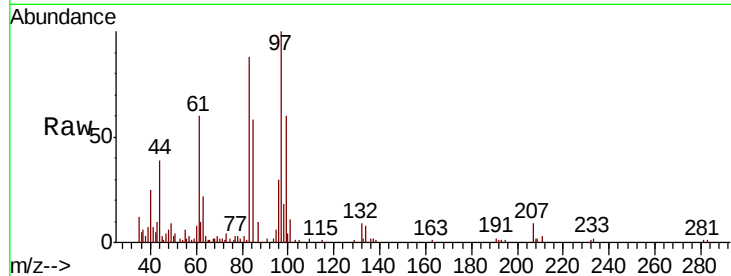
Ion	Ratio	Lower	Upper
97	100		
83	87.1	70.2	105.2
85	58.4	46.2	69.4
99	60.5	52.2	78.4

97 100

83 87.1 70.2 105.2

85 58.4 46.2 69.4

99 60.5 52.2 78.4



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

15000

10000

5000

0

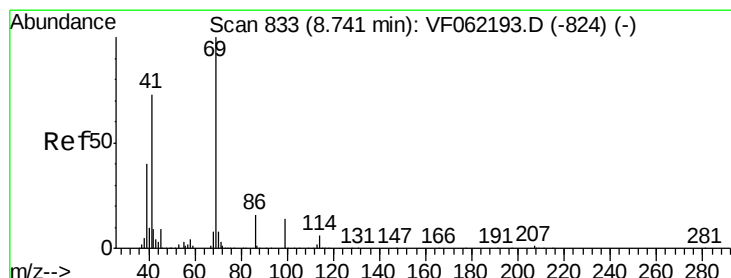
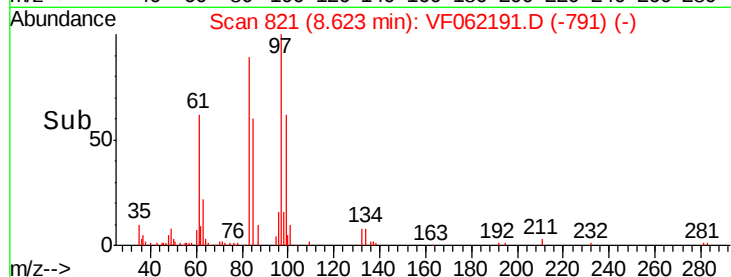
8.62

8.50

8.60

8.70

Time-->



#56

Ethyl methacrylate

Concen: 4.375 ug/l

RT: 8.74 min Scan# 833

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

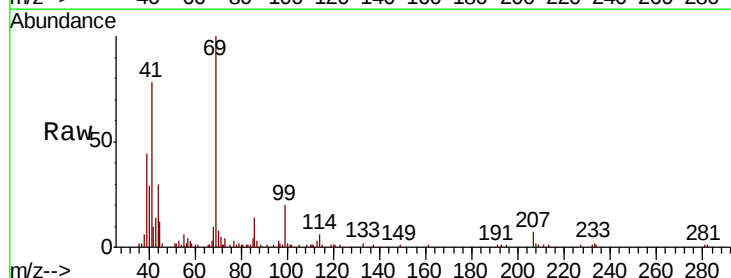
Tgt Ion: 69 Resp: 29709

Ion	Ratio	Lower	Upper
69	100		
41	85.0	61.5	92.3
39	57.5	33.3	49.9

69 100

41 85.0 61.5 92.3

39 57.5 33.3 49.9



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

20000

15000

10000

5000

0

8.74

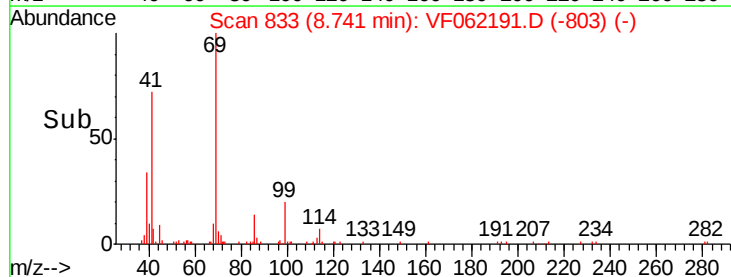
8.60

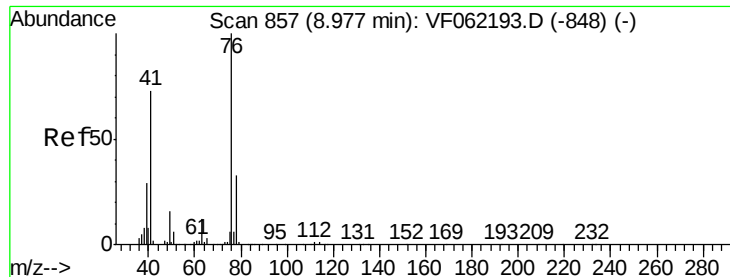
8.70

8.80

8.90

Time-->





#57

1,3-Dichloropropane

Concen: 6.067 ug/l

RT: 8.98 min Scan# 857

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

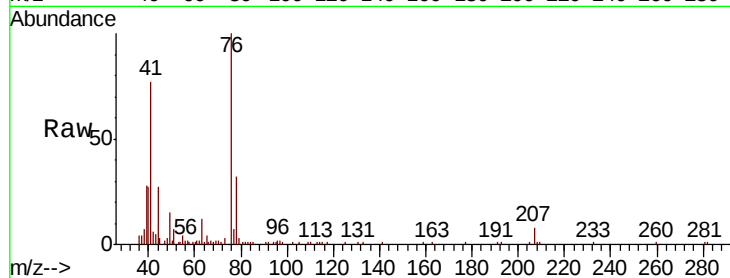
VSTDIC010

Tot Ion: 76 Resp: 42517

Ion Ratio Lower Upper

76 100

78 32.9 26.5 39.7



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0

8.98

20000

15000

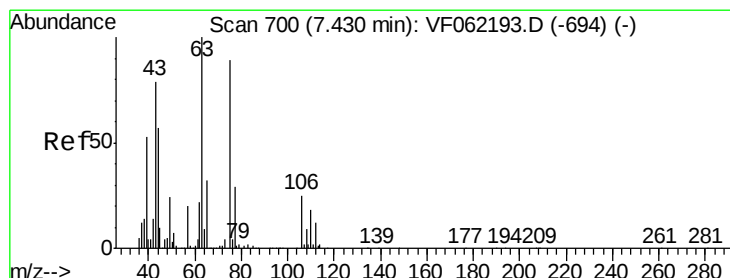
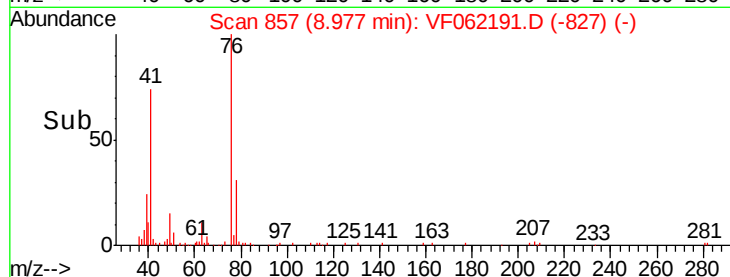
10000

5000

0

8.90 9.00 9.10

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 11.800 ug/l

RT: 7.43 min Scan# 700

Delta R.T. -0.00 min

Lab File: VF062191.D

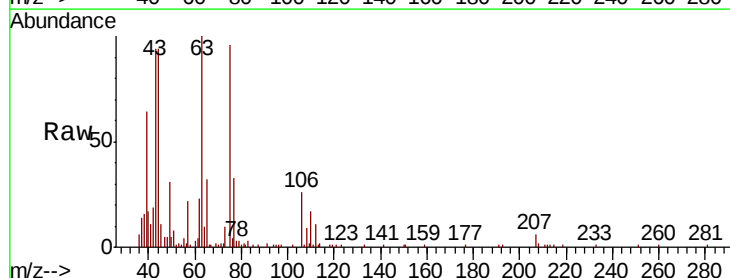
Acq: 17 Apr 2019 17:40

Tgt Ion: 63 Resp: 41836

Ion Ratio Lower Upper

63 100

106 26.2 21.4 32.0



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

7.43

15000

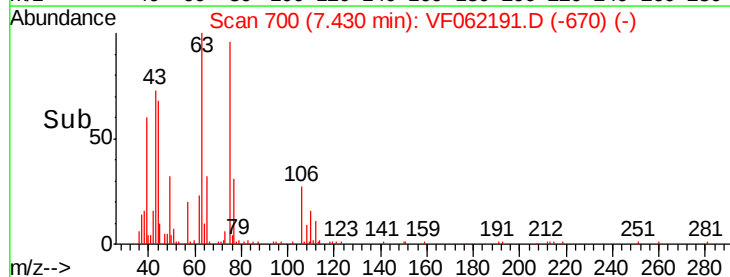
10000

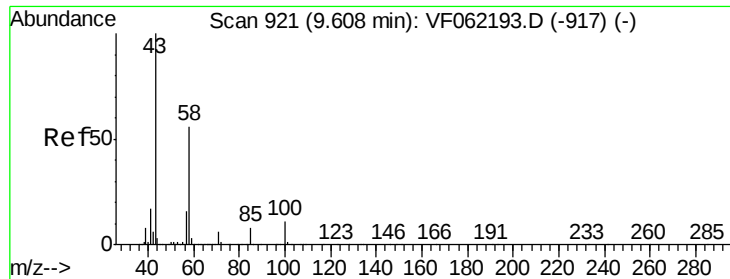
5000

0

7.30 7.40 7.50 7.60

Time-->

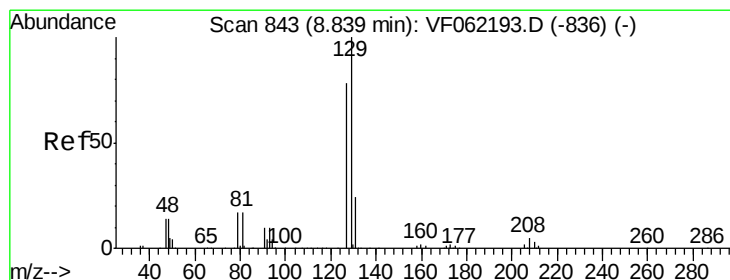
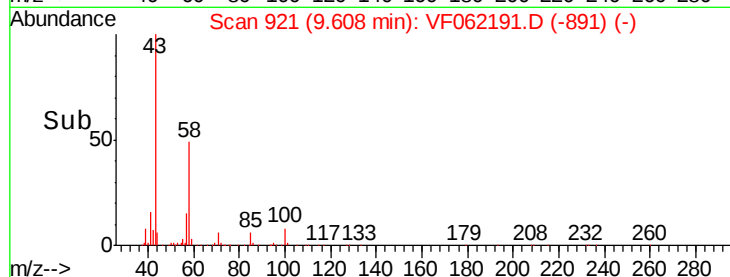
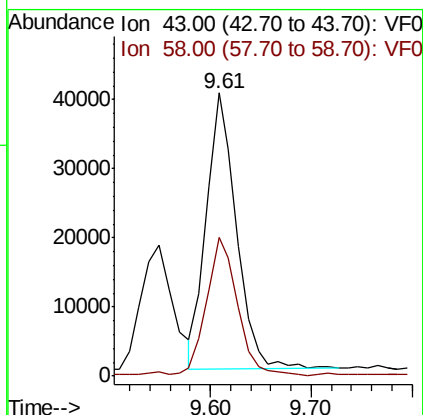
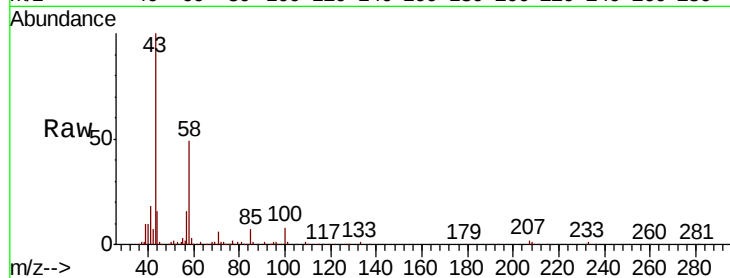




#59
2-Hexanone
Concen: 15.390 ug/l
RT: 9.61 min Scan# 921
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

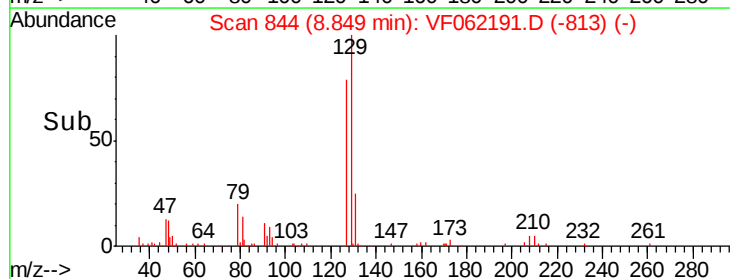
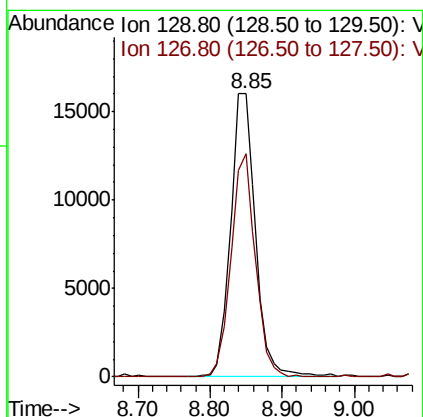
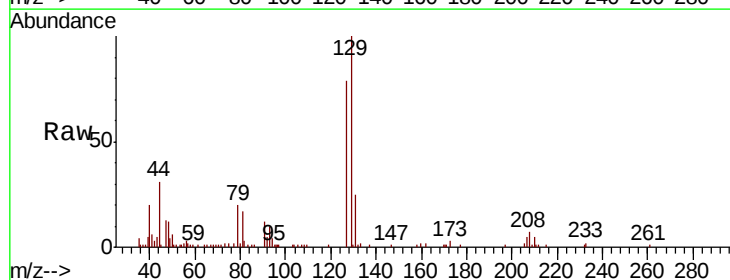
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

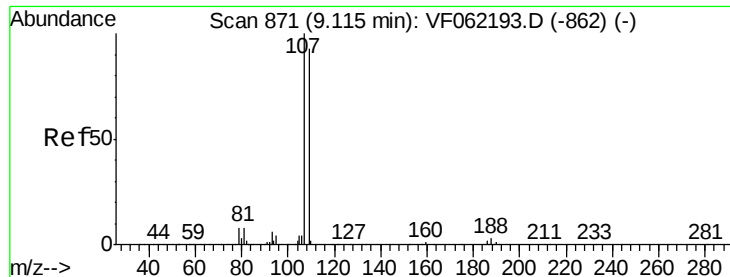
Tot Ion: 43 Resp: 82795
Ion Ratio Lower Upper
43 100
58 54.1 24.6 74.0



#60
Dibromochloromethane
Concen: 9.646 ug/l
RT: 8.85 min Scan# 844
Delta R.T. 0.01 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 129 Resp: 38771
Ion Ratio Lower Upper
129 100
127 76.4 39.0 117.0





#61

1,2-Dibromoethane

Concen: 7.042 ug/l

RT: 9.13 min Scan# 872

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

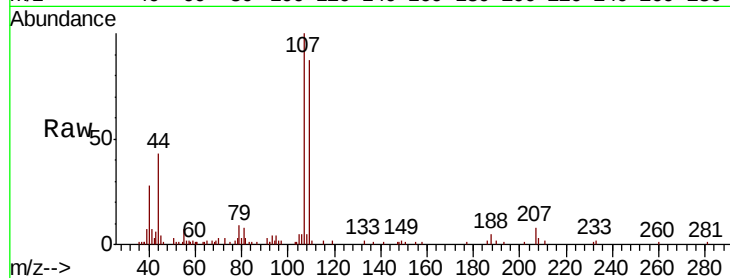
VSTDIC010

Tot Ion:107 Resp: 29132

Ion Ratio Lower Upper

107 100

109 98.0 74.3 111.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.13

15000

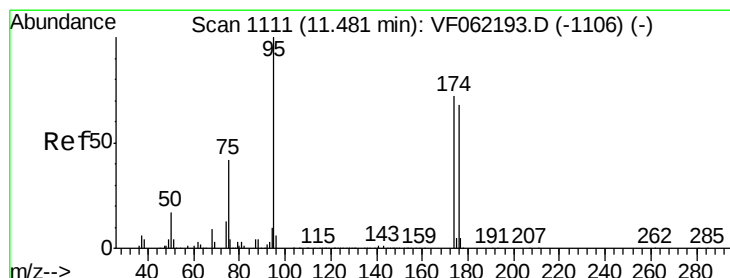
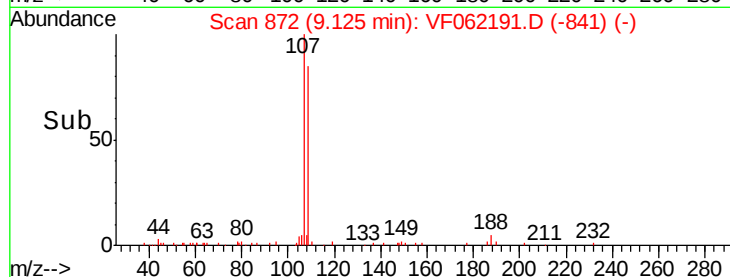
10000

5000

0

Time-->

9.00 9.10 9.20



#62

4-Bromofluorobenzene

Concen: 9.523 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

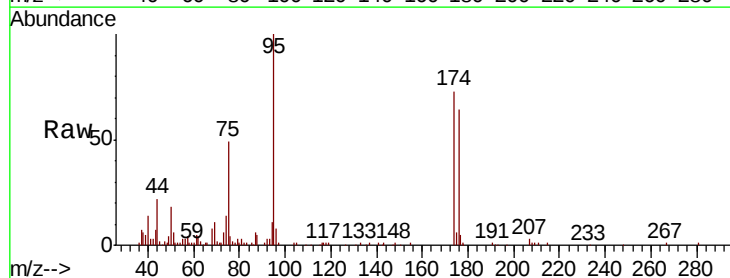
Tgt Ion: 95 Resp: 49094

Ion Ratio Lower Upper

95 100

174 81.7 0.0 159.4

176 78.4 0.0 155.4



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

11.48

30000

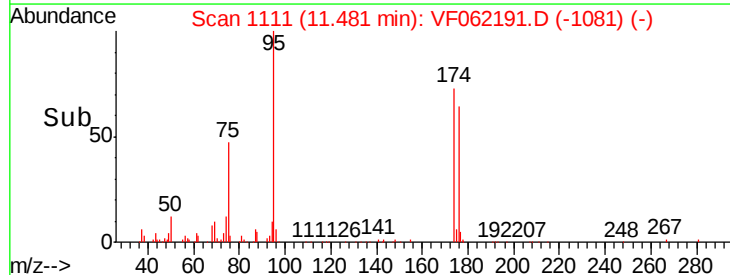
20000

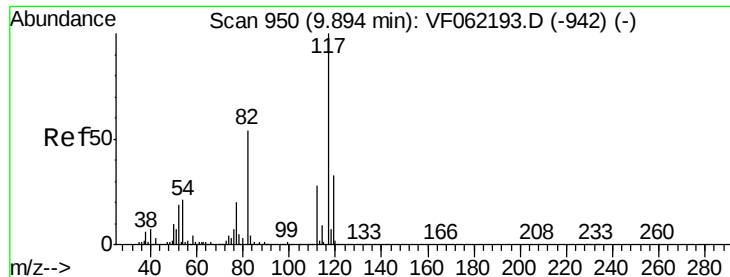
10000

0

Time-->

11.40 11.50

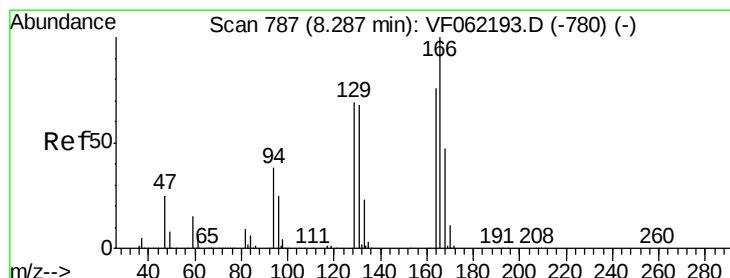
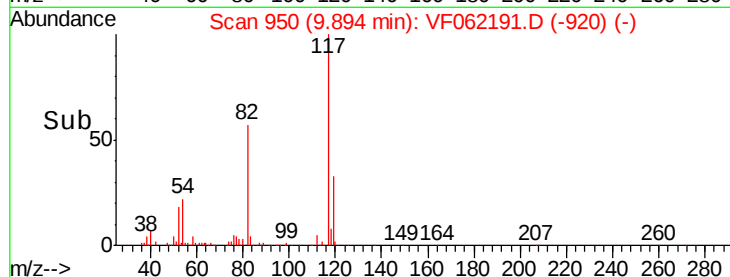
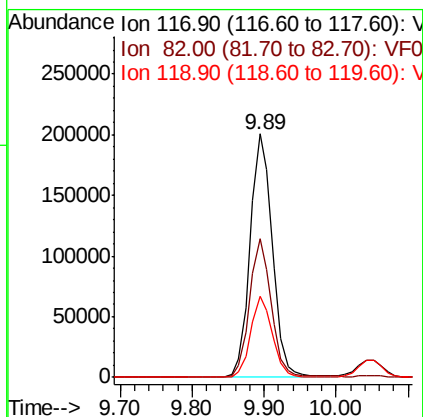
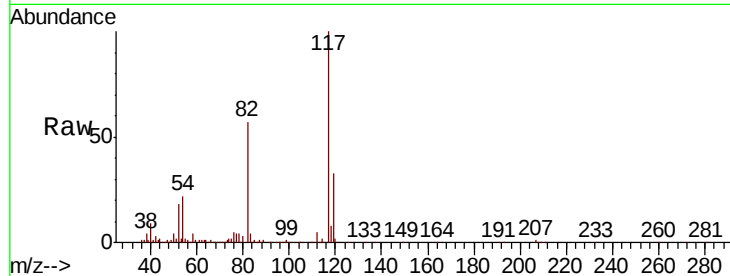




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 950
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

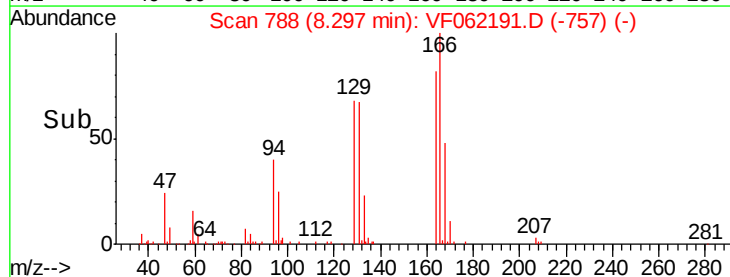
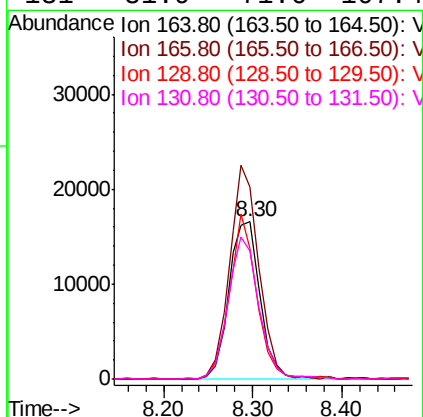
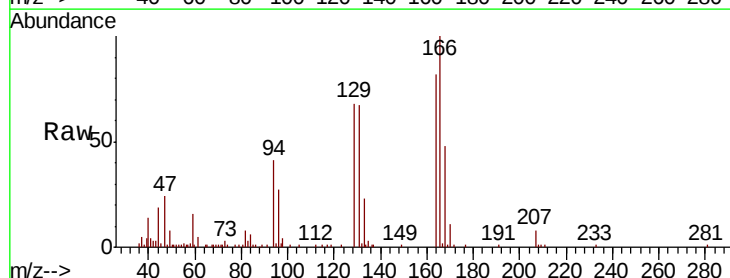
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

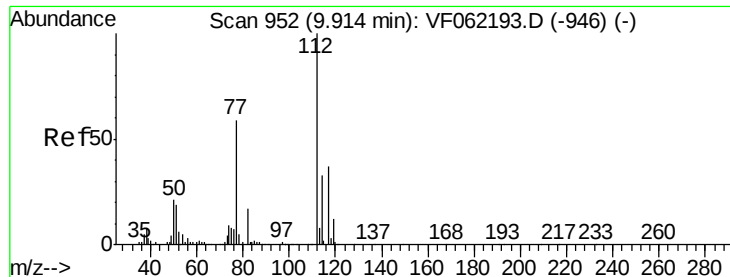
Tot Ion:117 Resp: 438056
Ion Ratio Lower Upper
117 100
82 57.0 43.2 64.8
119 33.4 26.2 39.4



#64
Tetrachloroethene
Concen: 11.788 ug/l
RT: 8.30 min Scan# 788
Delta R.T. 0.01 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion:164 Resp: 40758
Ion Ratio Lower Upper
164 100
166 122.3 104.7 157.1
129 83.2 72.6 109.0
131 81.9 71.6 107.4





#65

Chlorobenzene

Concen: 10.096 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

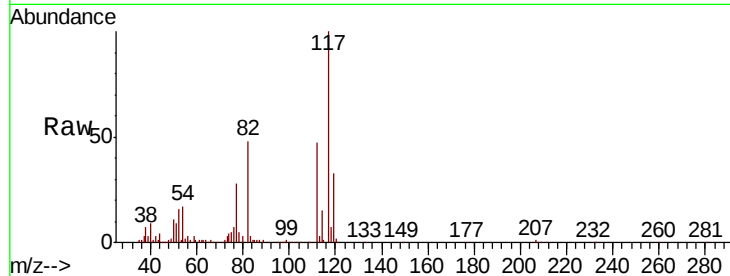
VSTDIC010

Tot Ion:112 Resp: 95175

Ion Ratio Lower Upper

112 100

114 31.2 26.1 39.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

9.91

40000

30000

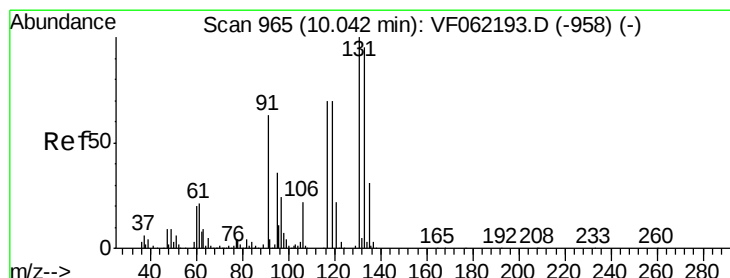
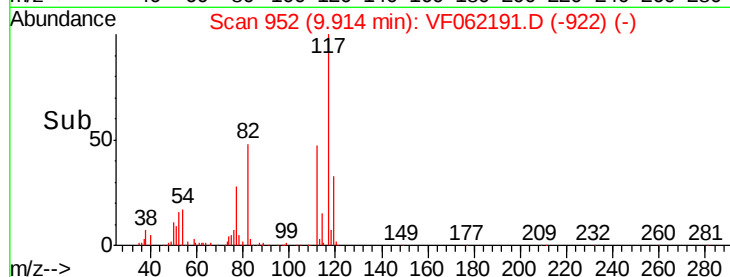
20000

10000

0

9.80 9.90 10.00

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 13.513 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

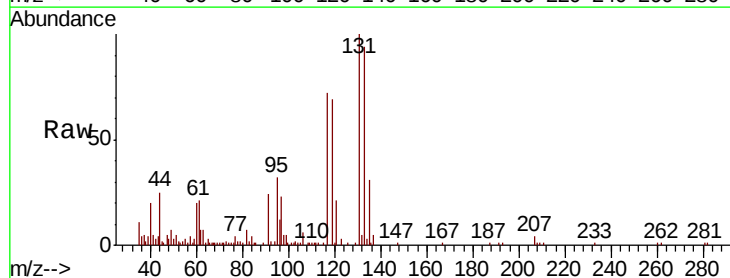
Tgt Ion:131 Resp: 46709

Ion Ratio Lower Upper

131 100

133 94.0 47.7 143.1

119 70.8 34.6 103.9



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

80000

60000

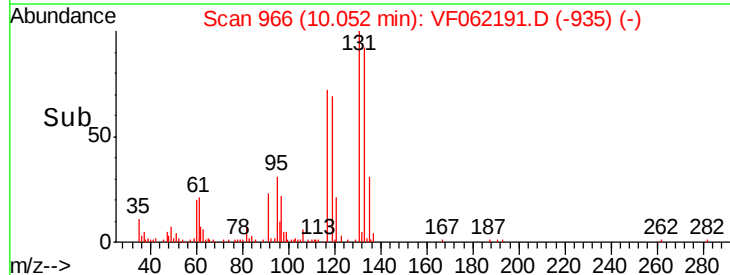
40000

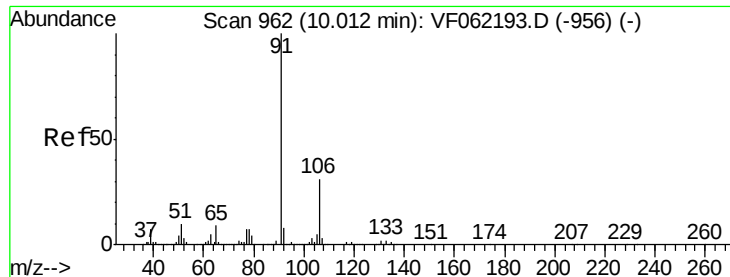
20000

0

9.90 10.00 10.10 10.20

Time-->





#67

Ethyl Benzene

Concen: 10.026 ug/l

RT: 10.01 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

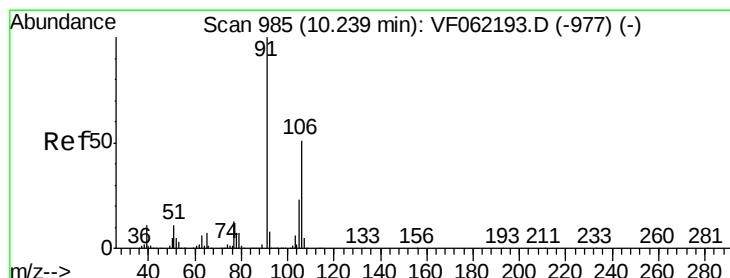
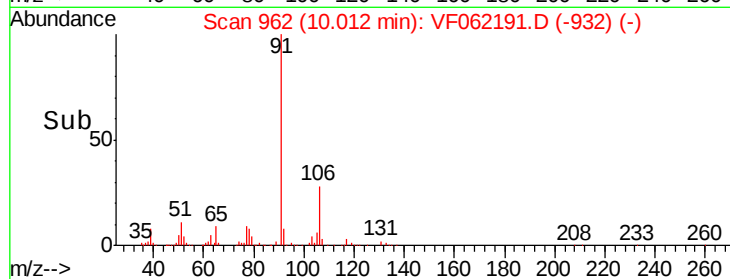
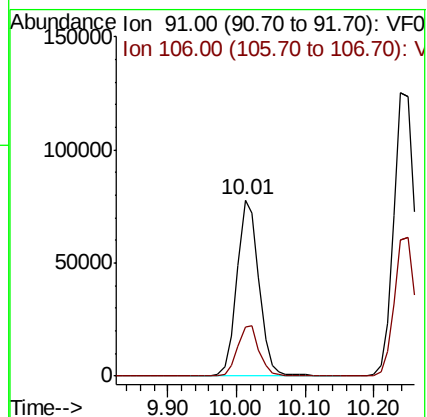
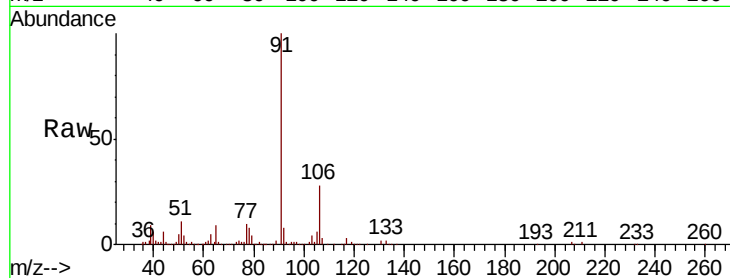
VSTDIC010

Tot Ion: 91 Resp: 170177

Ion Ratio Lower Upper

91 100

106 28.1 24.9 37.3



#68

m/p-Xylenes

Concen: 21.276 ug/l

RT: 10.25 min Scan# 986

Delta R.T. 0.01 min

Lab File: VF062191.D

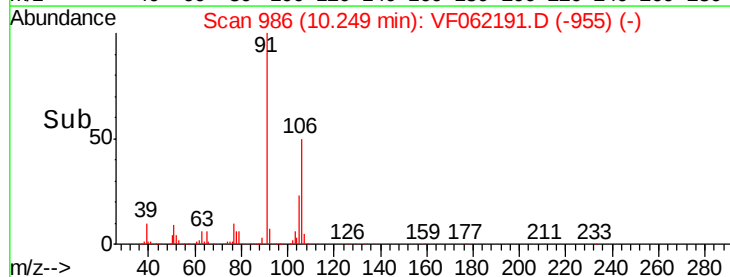
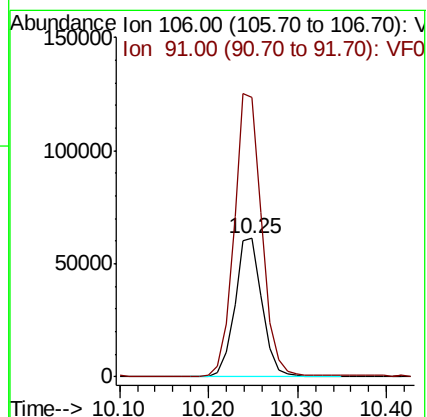
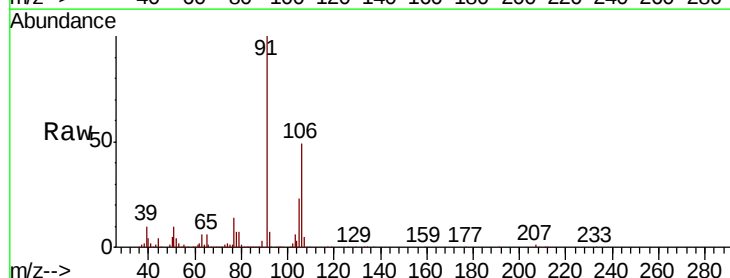
Acq: 17 Apr 2019 17:40

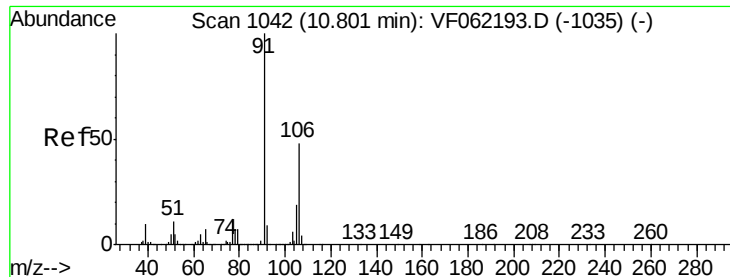
Tgt Ion:106 Resp: 131398

Ion Ratio Lower Upper

106 100

91 205.9 159.1 238.7

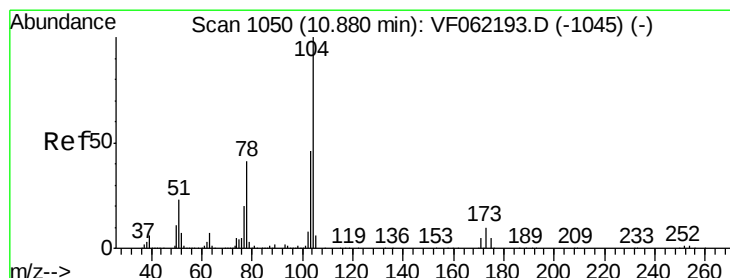
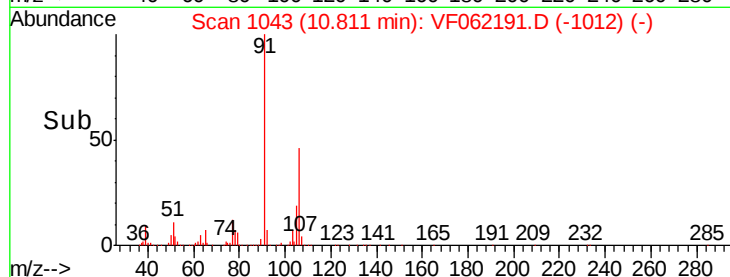
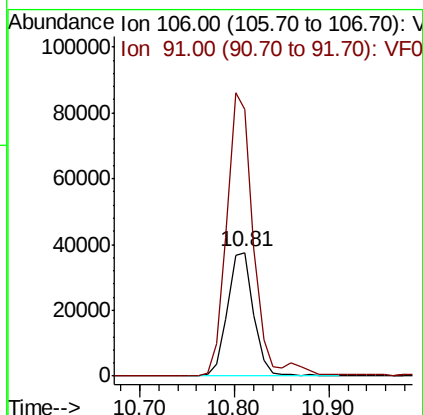
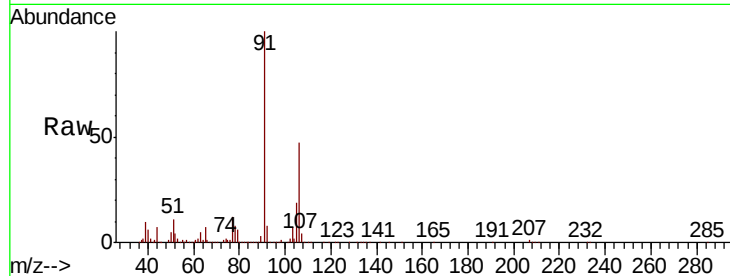




#69
o-Xylene
Concen: 11.673 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

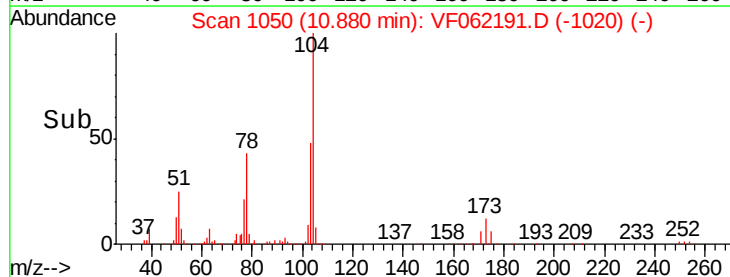
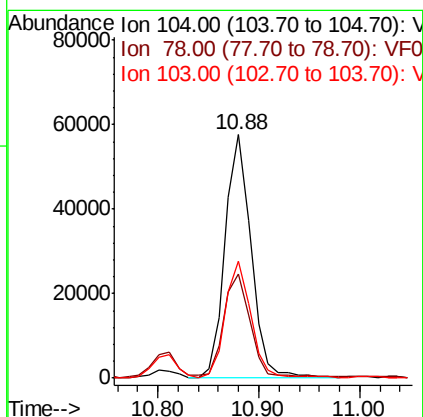
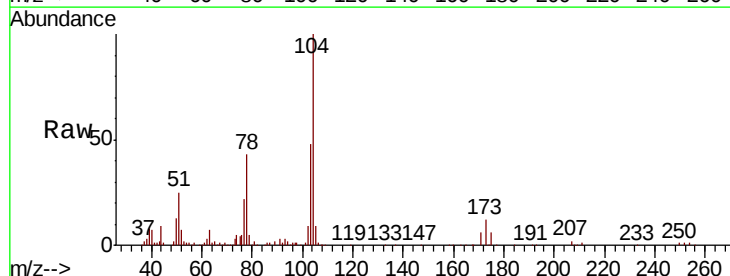
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

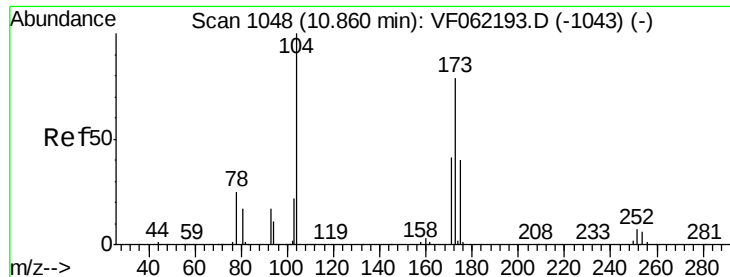
Tot Ion:106 Resp: 72283
Ion Ratio Lower Upper
106 100
91 223.5 107.5 322.4



#70
Styrene
Concen: 10.039 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion:104 Resp: 103003
Ion Ratio Lower Upper
104 100
78 42.7 34.5 51.7
103 48.0 37.2 55.8





#71

Bromoform

Concen: 9.480 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

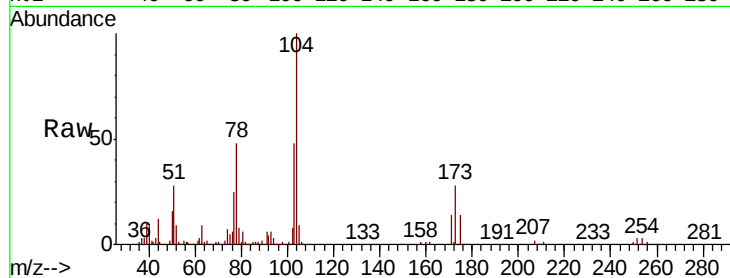
Tot Ion:173 Resp: 24100

Ion Ratio Lower Upper

173 100

175 48.4 24.5 73.5

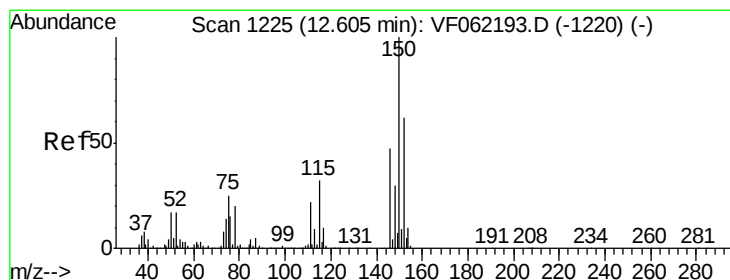
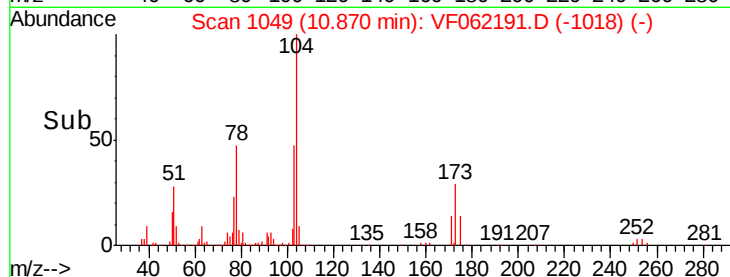
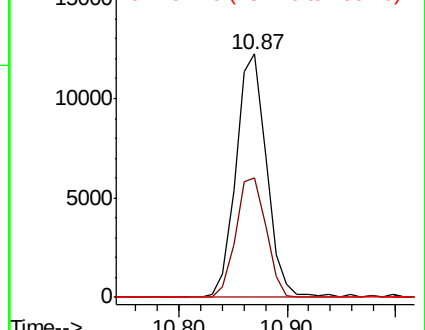
254 0.0 0.1 0.1#



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: 12.60 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

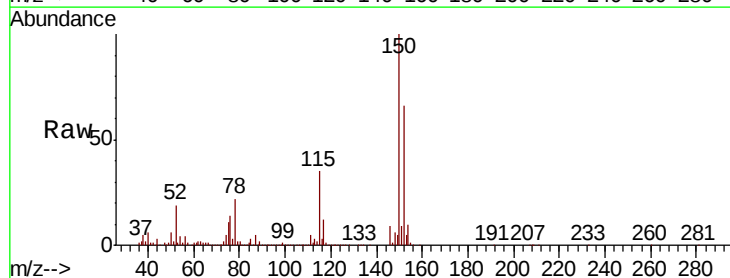
Tgt Ion:152 Resp: 250574

Ion Ratio Lower Upper

152 100

115 56.4 27.8 83.3

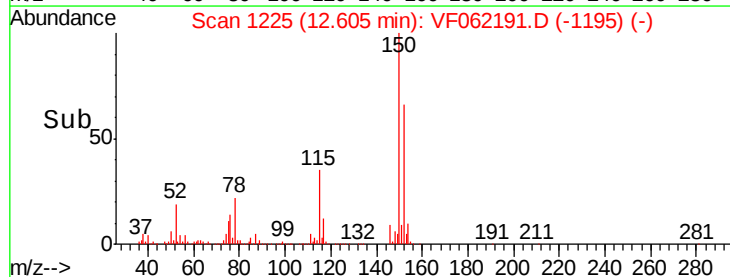
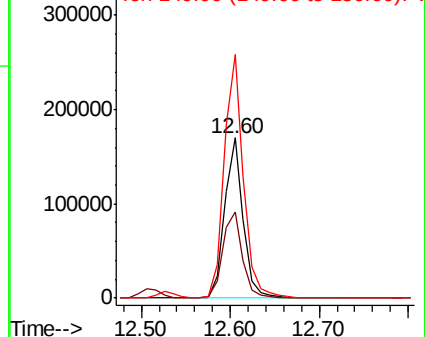
150 157.3 0.0 341.8

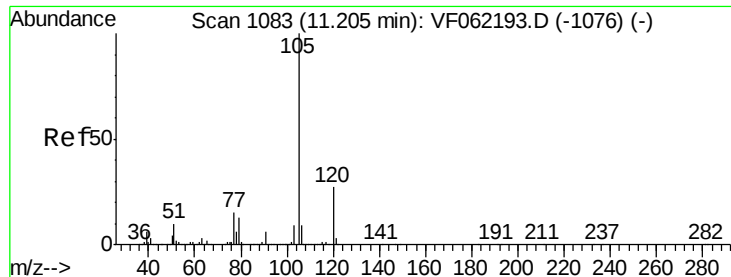


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 11.363 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

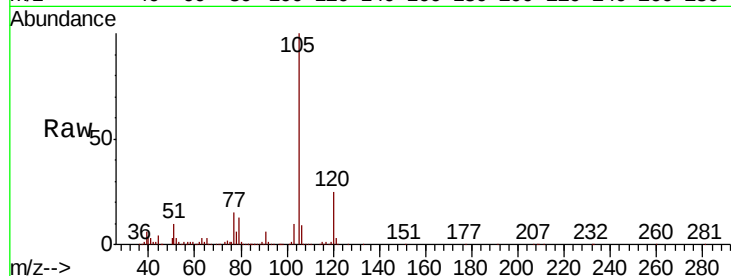
VSTDIC010

Tot Ion:105 Resp: 222251

Ion Ratio Lower Upper

105 100

120 24.1 13.0 38.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.21

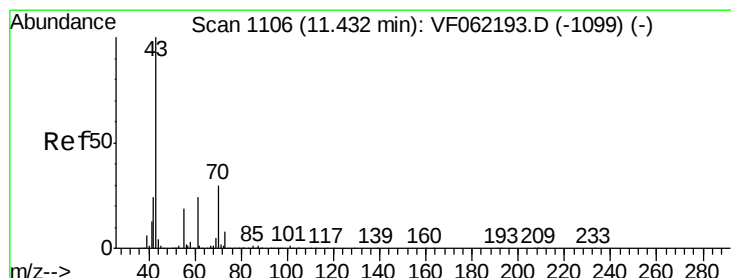
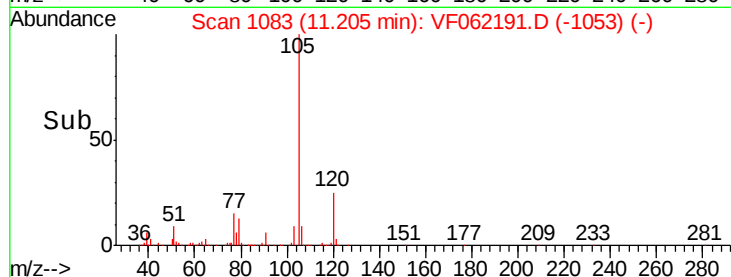
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 5.980 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Tgt Ion: 43 Resp: 59614

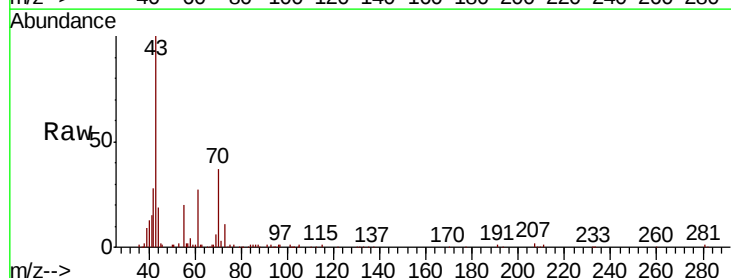
Ion Ratio Lower Upper

43 100

70 34.0 27.0 40.4

55 22.9 15.7 23.5

61 30.0 20.8 31.2



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

50000

40000

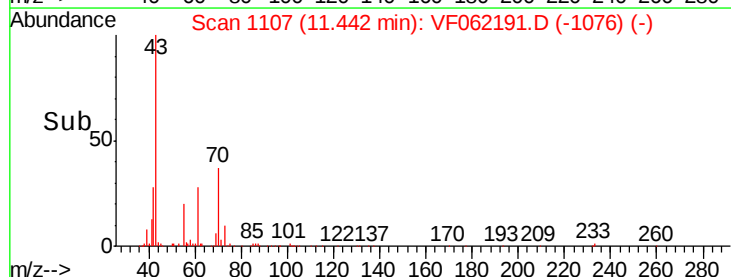
30000

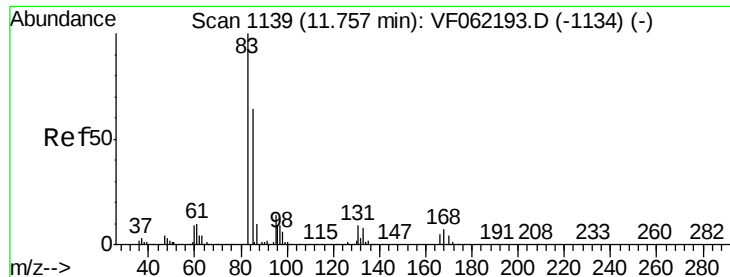
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 5.651 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

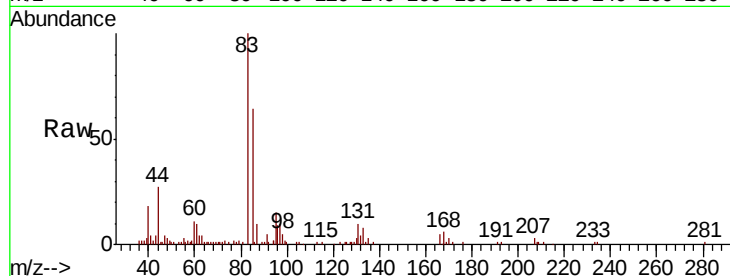
Tot Ion: 83 Resp: 36539

Ion Ratio Lower Upper

83 100

131 10.3 4.5 13.5

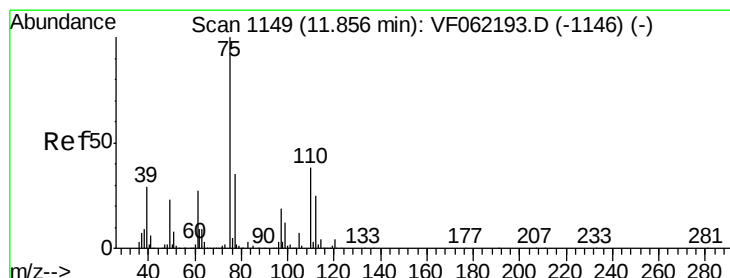
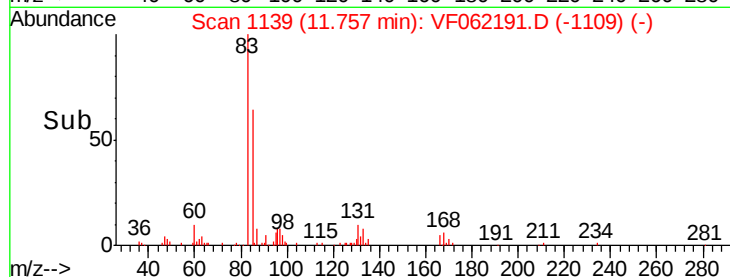
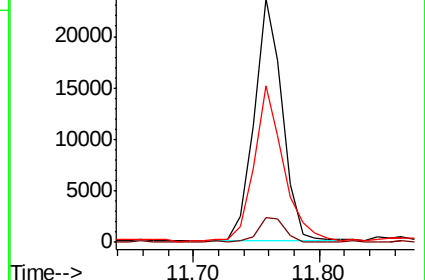
85 70.1 34.7 104.1



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: 4.568 ug/l

RT: 11.86 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VF062191.D

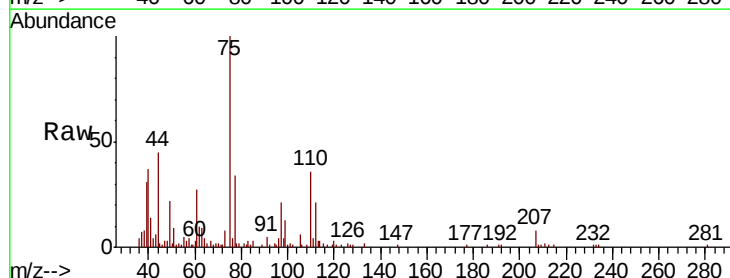
Acq: 17 Apr 2019 17:40

Tgt Ion: 75 Resp: 25520

Ion Ratio Lower Upper

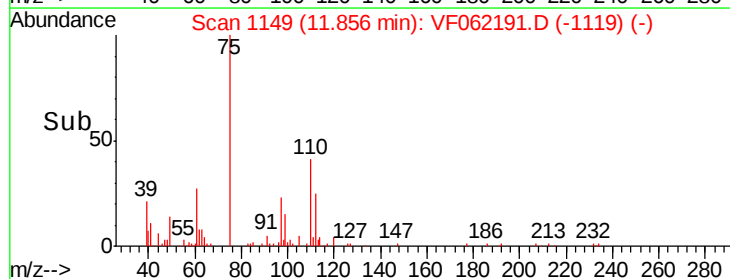
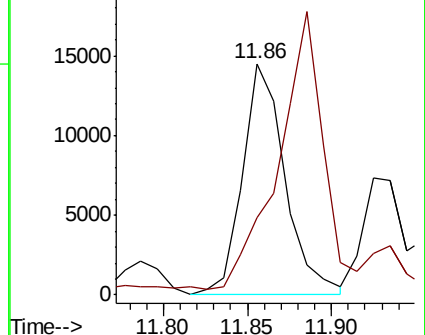
75 100

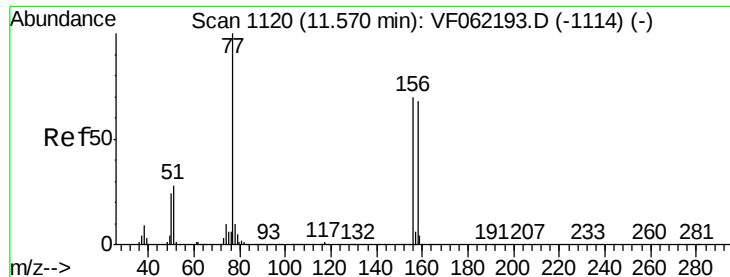
77 0.0 7.4 22.2#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 9.217 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

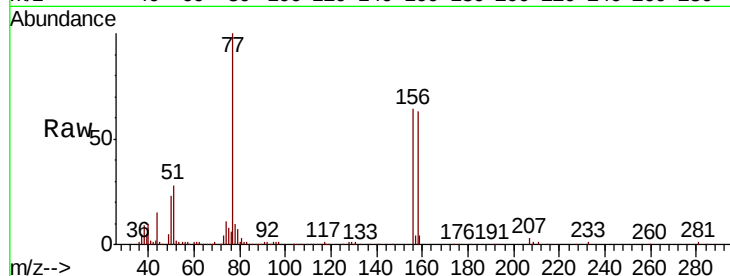
Tot Ion:156 Resp: 44316

Ion Ratio Lower Upper

156 100

77 167.4 80.9 242.7

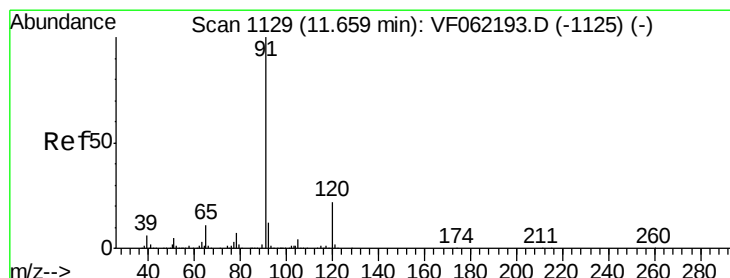
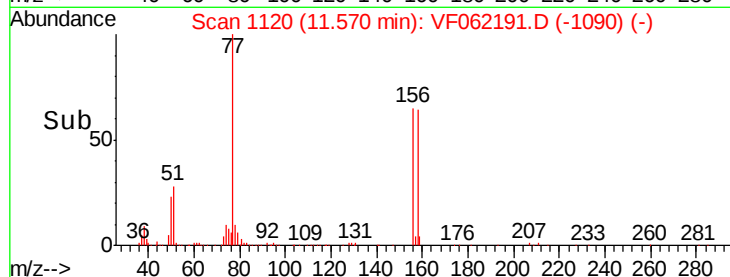
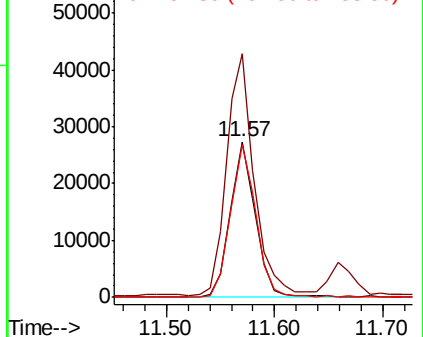
158 100.1 49.8 149.4



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: 10.706 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VF062191.D

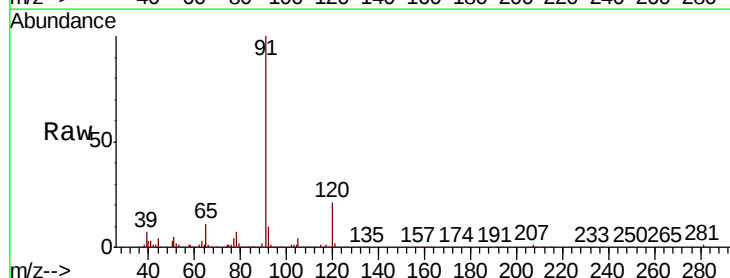
Acq: 17 Apr 2019 17:40

Tgt Ion: 91 Resp: 234493

Ion Ratio Lower Upper

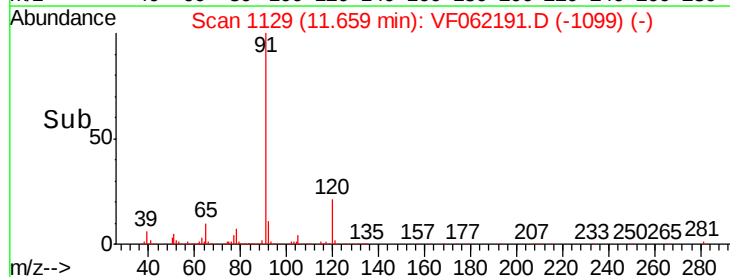
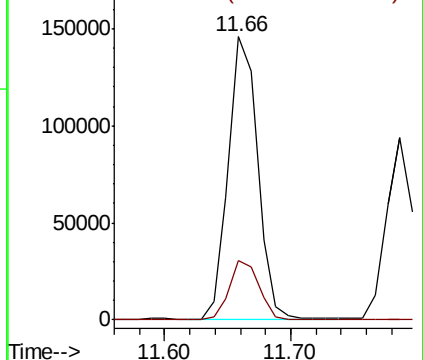
91 100

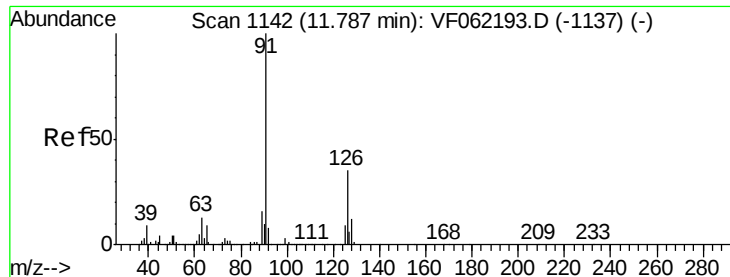
120 21.3 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 10.626 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

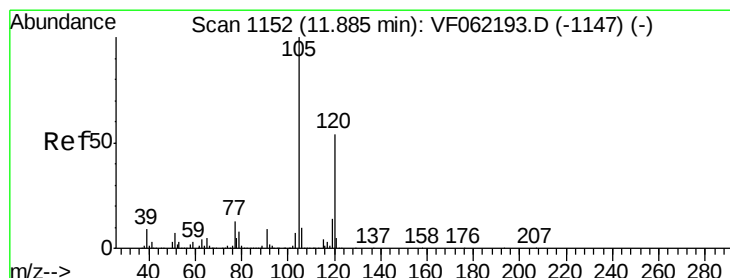
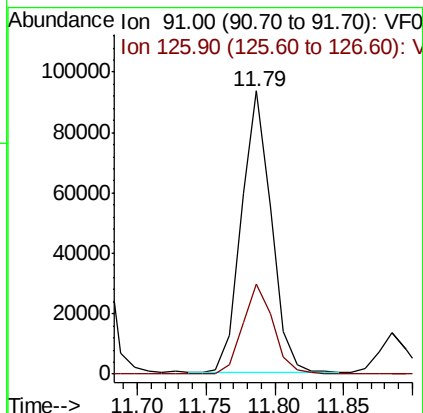
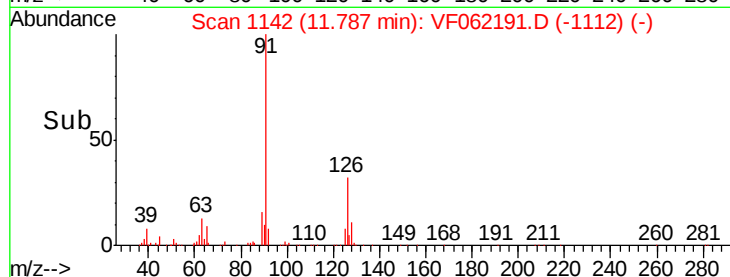
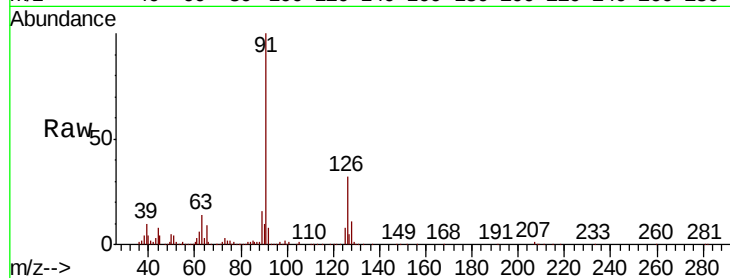
VSTDIC010

Tot Ion: 91 Resp: 141524

Ion Ratio Lower Upper

91 100

126 33.0 16.9 50.6



#80

1,3,5-Trimethylbenzene

Concen: 11.261 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF062191.D

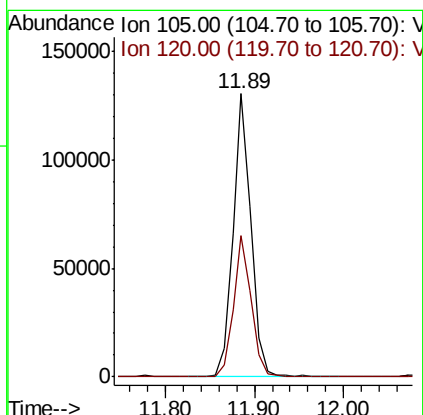
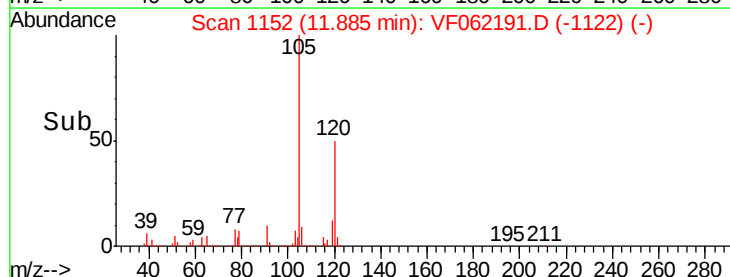
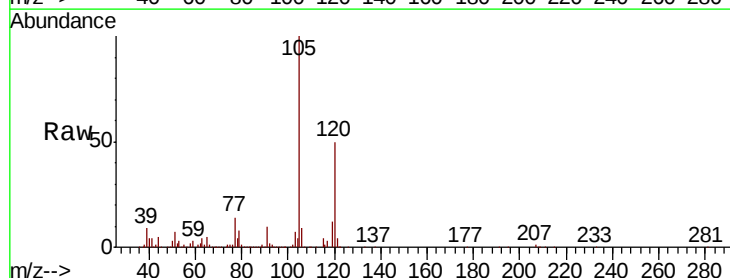
Acq: 17 Apr 2019 17:40

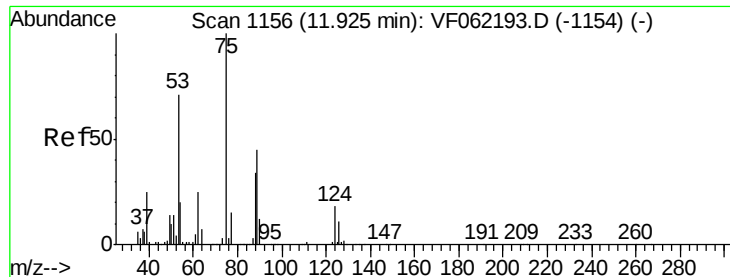
Tgt Ion:105 Resp: 184080

Ion Ratio Lower Upper

105 100

120 50.0 26.2 78.5

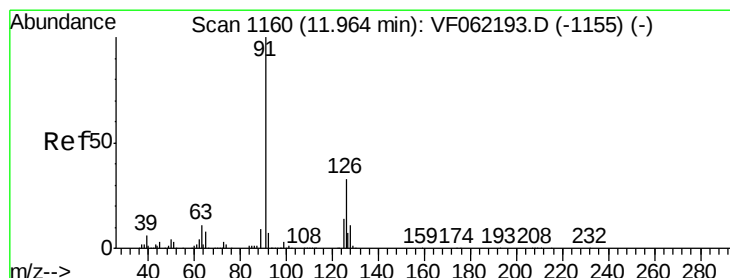
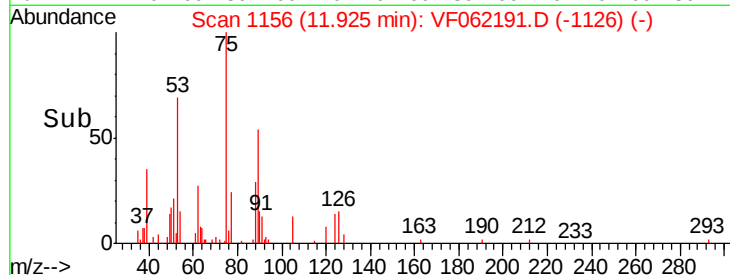
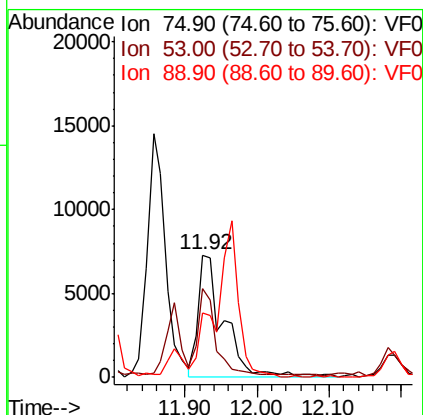
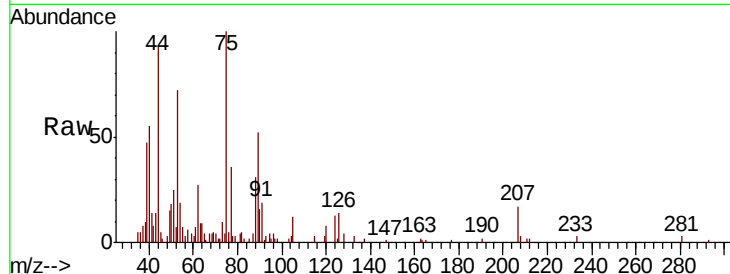




#81
trans-1,4-Dichloro-2-butene
Concen: 8.301 ug/l
RT: 11.92 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

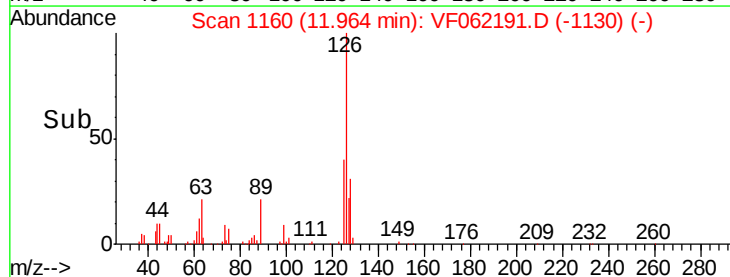
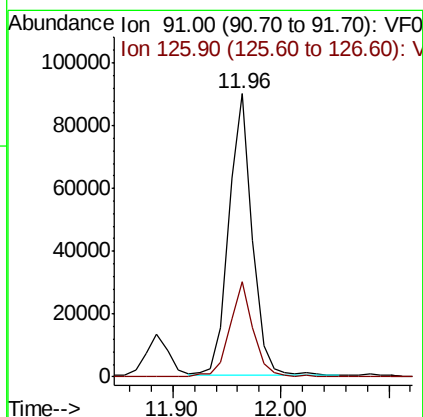
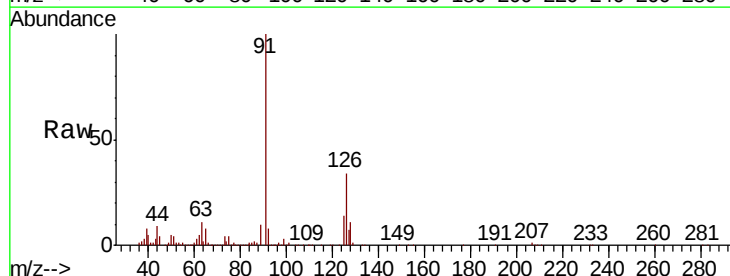
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

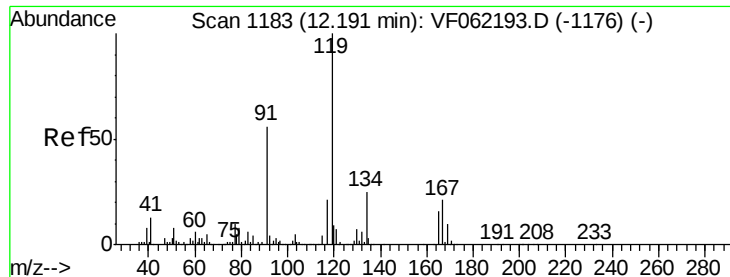
Tot Ion: 75 Resp: 18153
Ion Ratio Lower Upper
75 100
53 47.6 50.2 75.4#
89 0.0 0.0 0.0



#82
4-Chlorotoluene
Concen: 9.010 ug/l
RT: 11.96 min Scan# 1160
Delta R.T. -0.00 min
Lab File: VF062191.D
Acq: 17 Apr 2019 17:40

Tgt Ion: 91 Resp: 134926
Ion Ratio Lower Upper
91 100
126 34.8 16.9 50.6

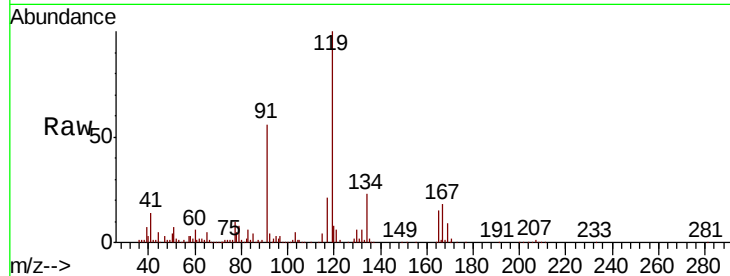




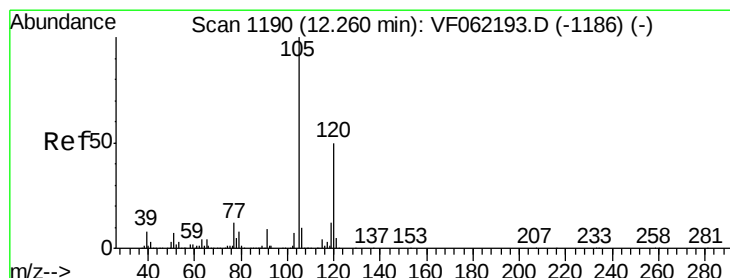
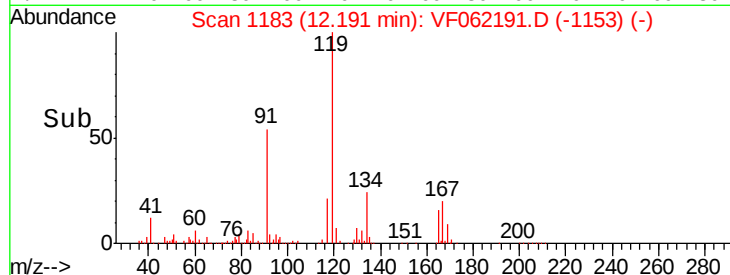
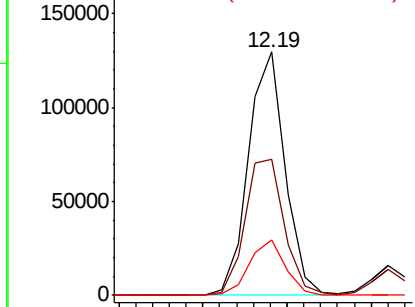
#83
 tert-Butylbenzene
 Concen: 12.262 ug/l
 RT: 12.19 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion:119 Resp: 195733
 Ion Ratio Lower Upper
 119 100
 91 59.6 29.4 88.2
 134 22.5 11.8 35.3

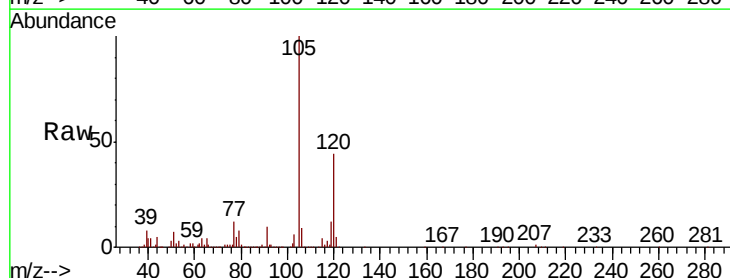


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

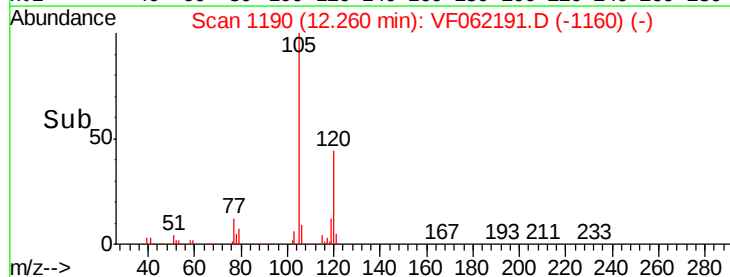
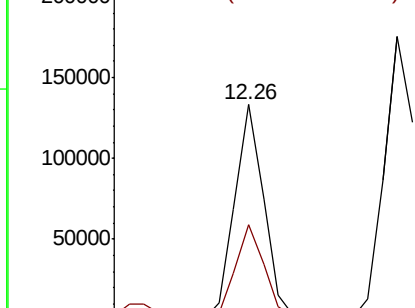


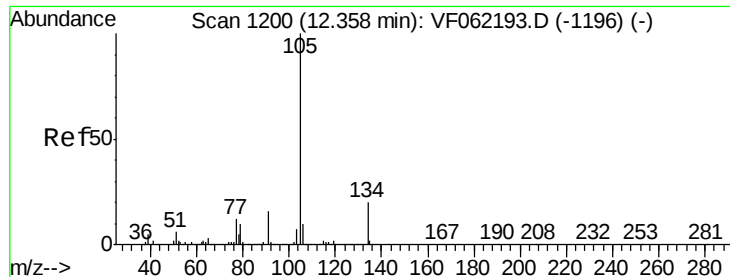
#84
 1,2,4-Trimethylbenzene
 Concen: 11.019 ug/l
 RT: 12.26 min Scan# 1190
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion:105 Resp: 181164
 Ion Ratio Lower Upper
 105 100
 120 44.5 24.0 72.0



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





#85

sec-Butylbenzene

Concen: 13.161 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

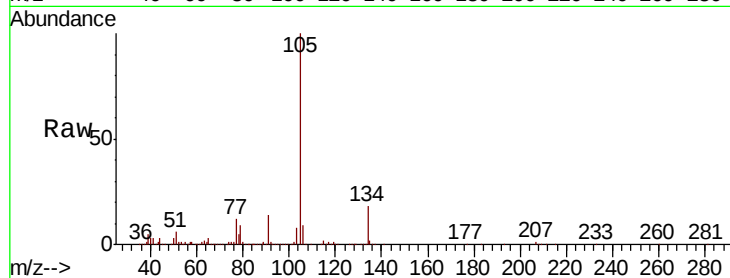
VSTDIC010

Tot Ion:105 Resp: 254504

Ion Ratio Lower Upper

105 100

134 18.0 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.36

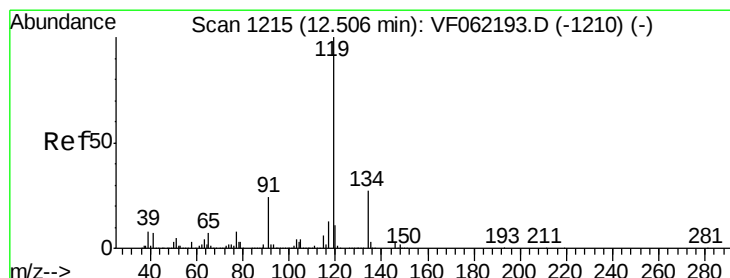
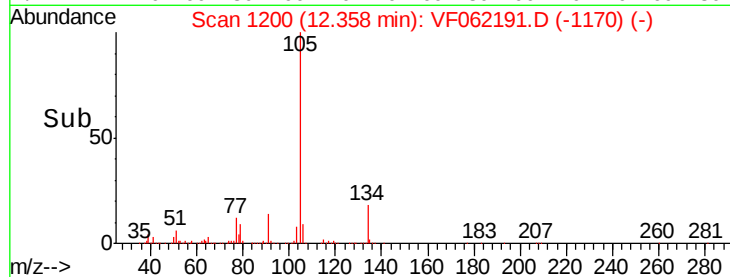
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 12.361 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

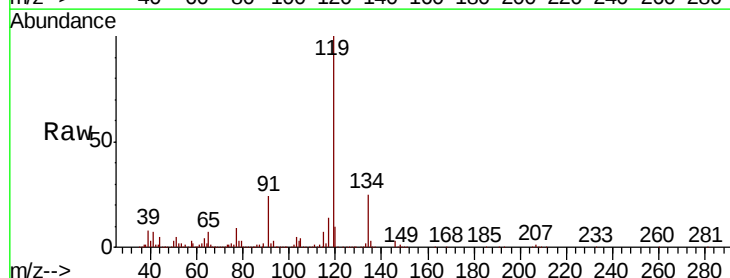
Tgt Ion:119 Resp: 215653

Ion Ratio Lower Upper

119 100

134 25.3 13.2 39.5

91 22.8 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.51

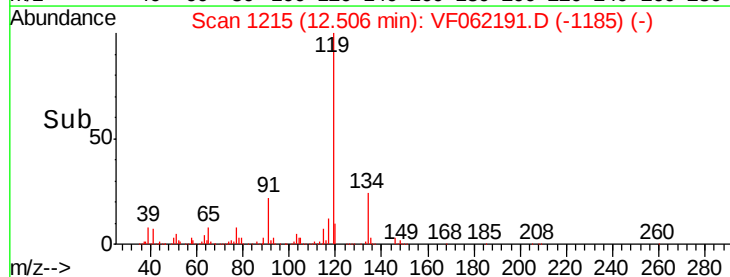
150000

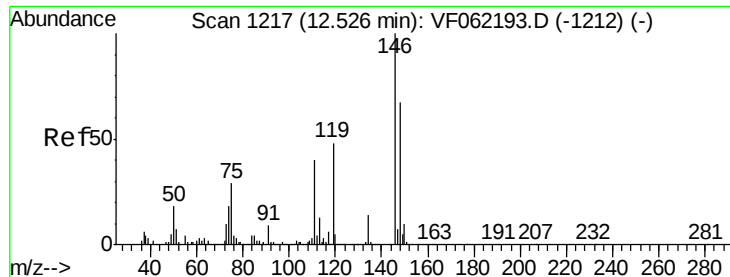
100000

50000

0

Time-->

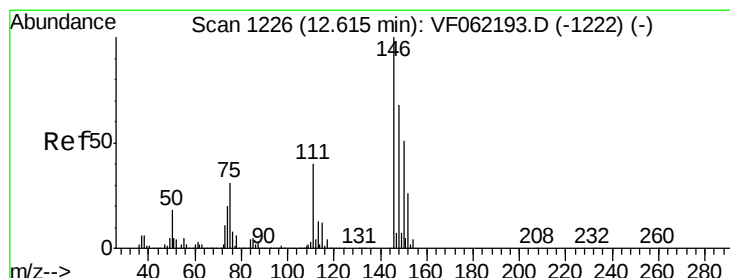
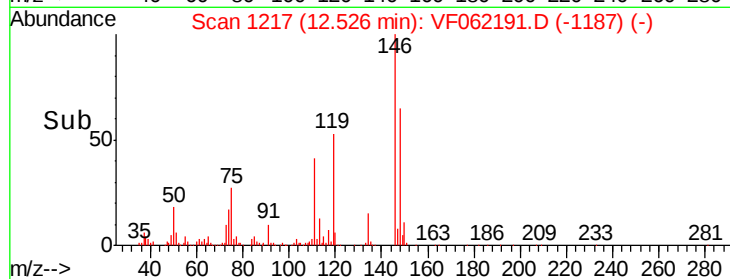
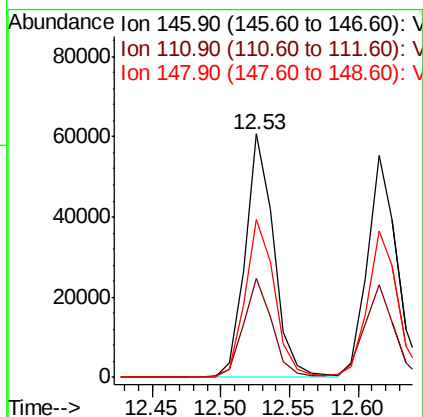
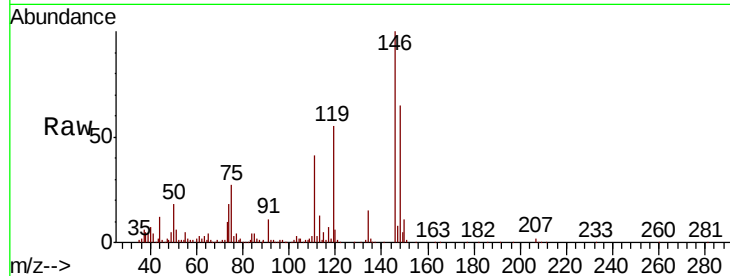




#87
 1,3-Dichlorobenzene
 Concen: 10.476 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

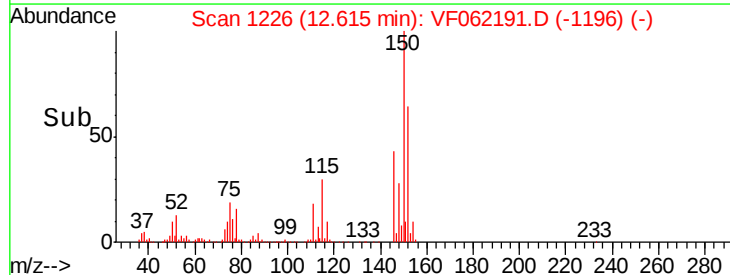
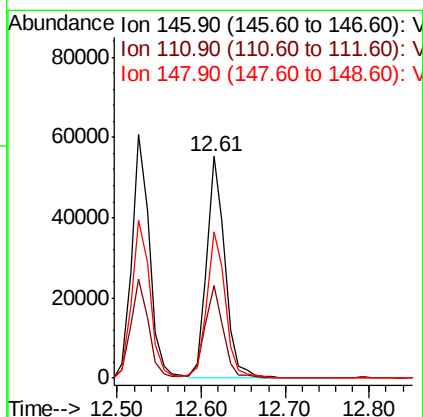
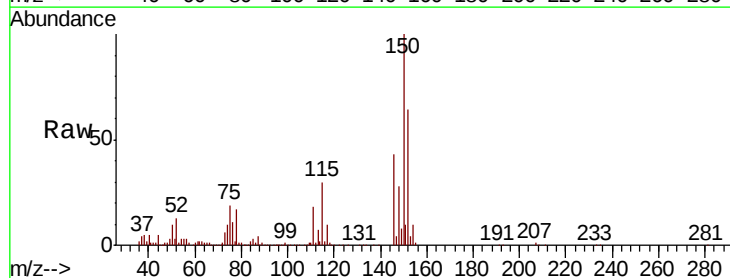
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

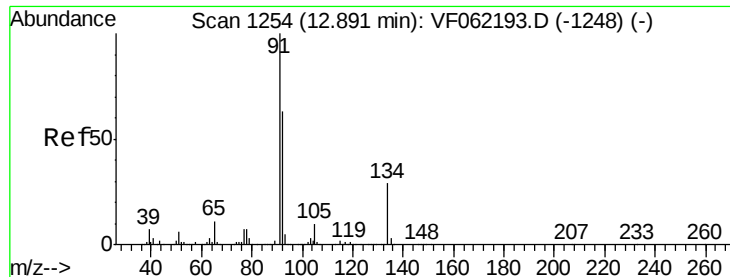
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	19.7	59.0
148	66.8	32.9	98.6



#88
 1,4-Dichlorobenzene
 Concen: 9.827 ug/l
 RT: 12.61 min Scan# 1226
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.0	60.0
148	67.0	33.6	100.8





#89

n-Butylbenzene

Concen: 13.572 ug/l

RT: 12.89 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

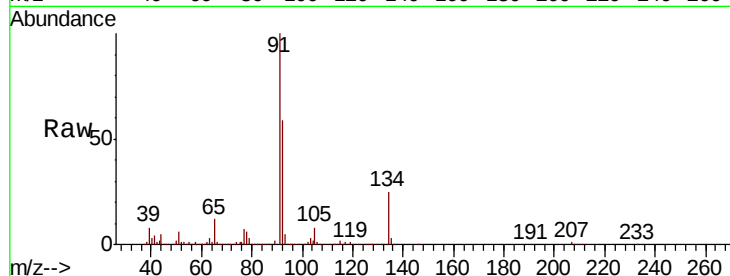
Tot Ion: 91 Resp: 217397

Ion	Ratio	Lower	Upper
91	100		
92	59.1	31.2	93.6
134	23.7	13.1	39.1

91 100

92 59.1 31.2 93.6

134 23.7 13.1 39.1

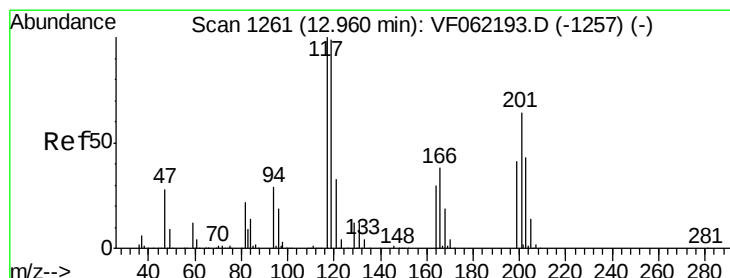
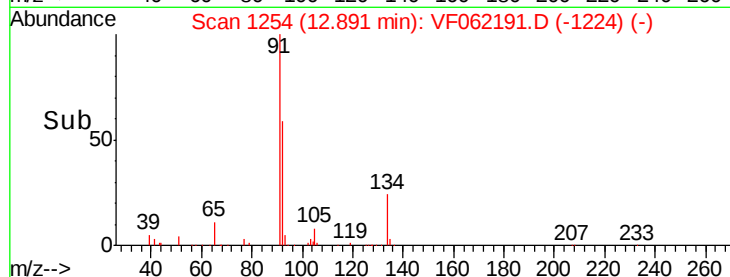
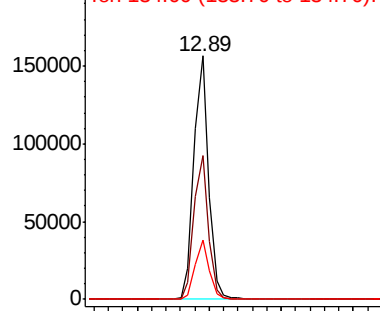


Abundance

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: 16.376 ug/l

RT: 12.96 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VF062191.D

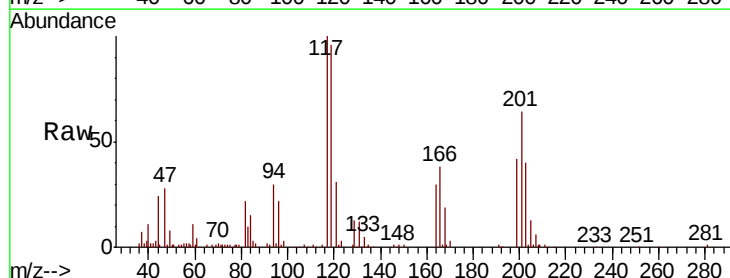
Acq: 17 Apr 2019 17:40

Tgt Ion: 117 Resp: 52386

Ion	Ratio	Lower	Upper
117	100		
201	74.6	37.7	113.1

117 100

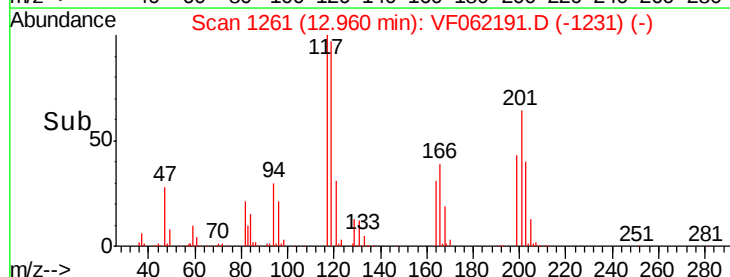
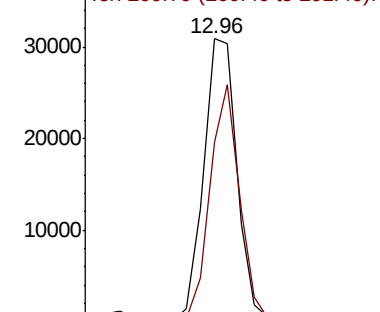
201 74.6 37.7 113.1

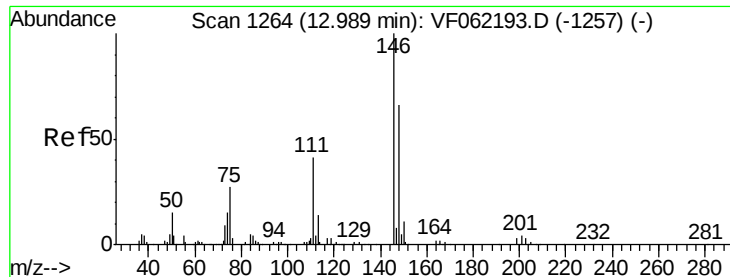


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

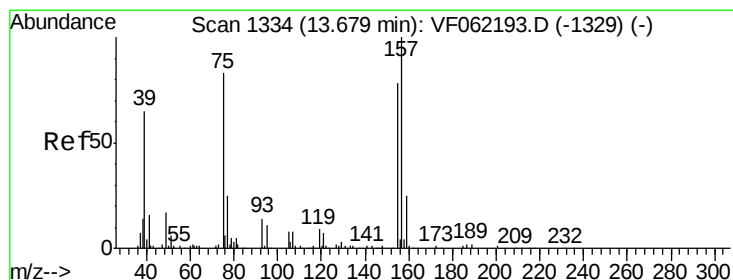
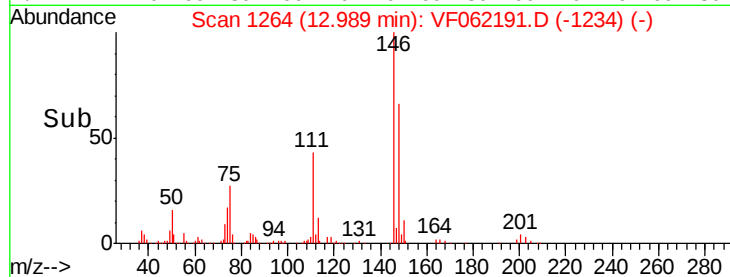
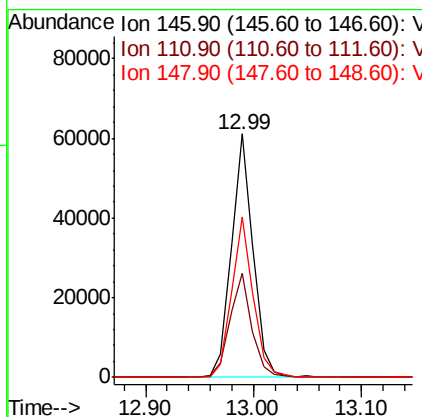
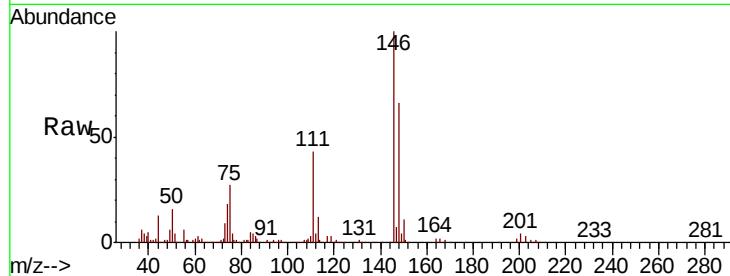




#91
 1,2-Dichlorobenzene
 Concen: 10.230 ug/l
 RT: 12.99 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

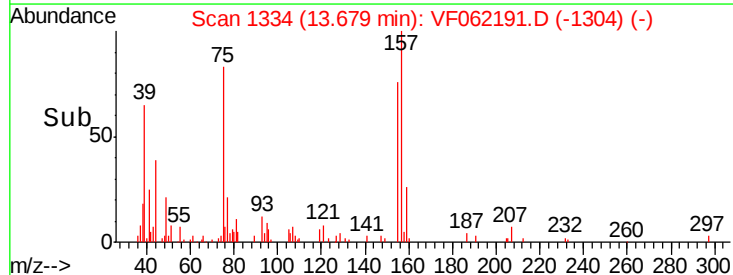
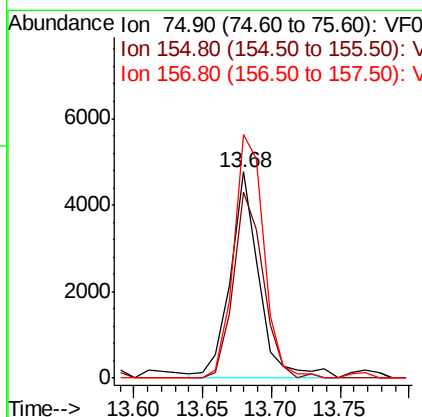
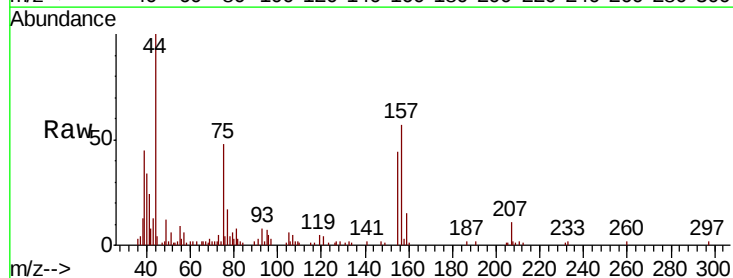
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

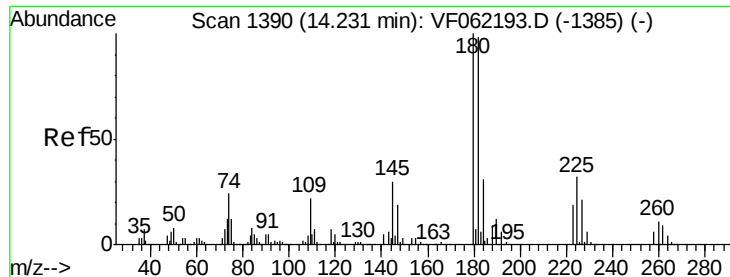
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.8	62.5
148	66.3	33.0	99.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.749 ug/l
 RT: 13.68 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.5	47.6	142.8
157	124.8	61.3	183.9

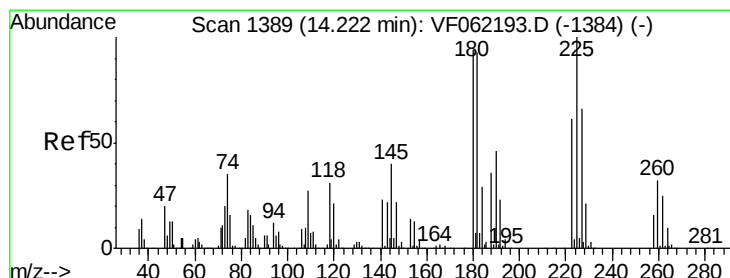
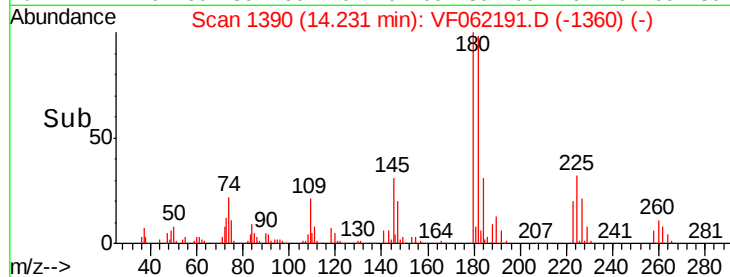
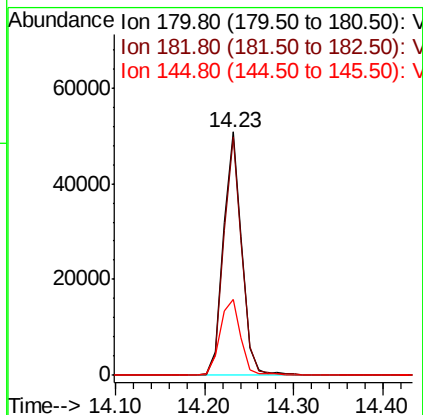
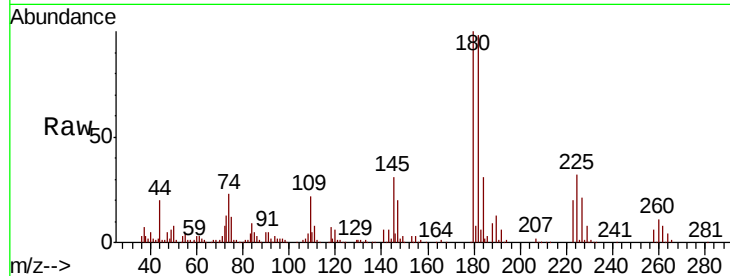




#93
 1,2,4-Trichlorobenzene
 Concen: 12.106 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

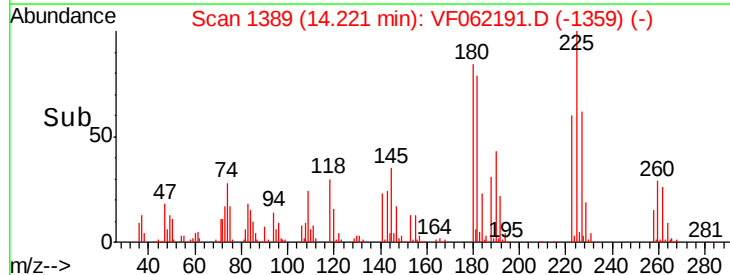
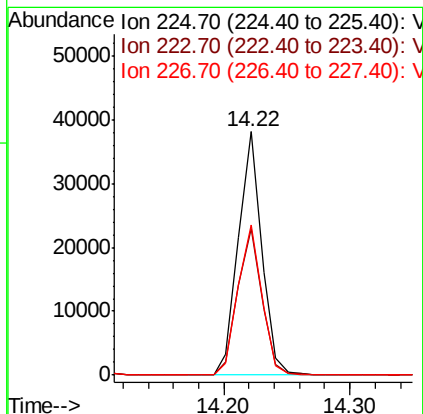
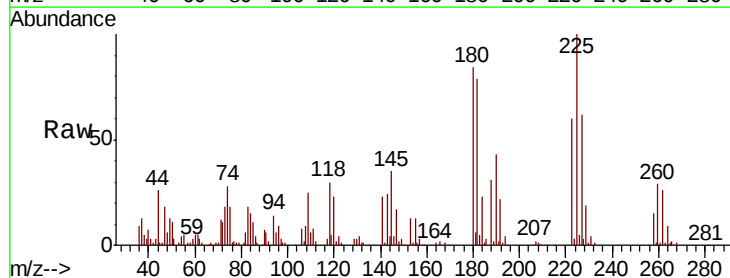
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

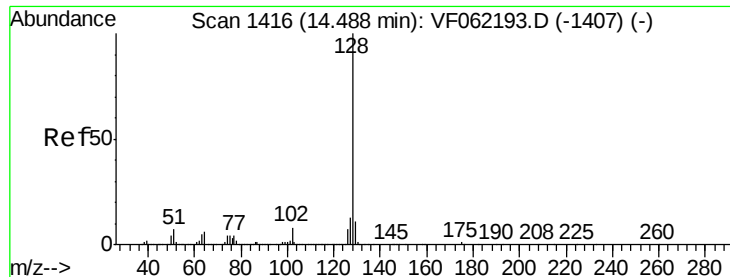
Tot Ion:180 Resp: 74426
 Ion Ratio Lower Upper
 180 100
 182 96.3 49.3 147.9
 145 34.6 18.1 54.4



#94
 Hexachlorobutadiene
 Concen: 14.803 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062191.D
 Acq: 17 Apr 2019 17:40

Tgt Ion:225 Resp: 48921
 Ion Ratio Lower Upper
 225 100
 223 62.6 31.0 93.0
 227 63.5 32.4 97.0





#95

Naphthalene

Concen: 6.609 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

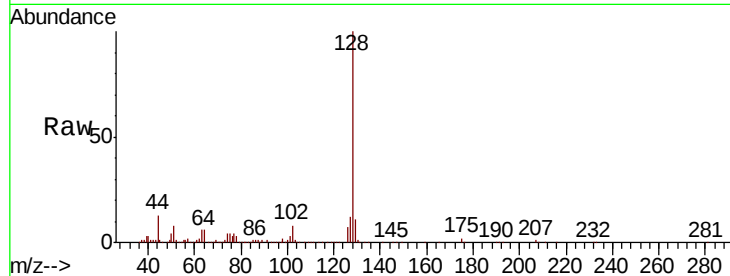
Tot Ion:128 Resp: 119592

Ion Ratio Lower Upper

128 100

127 12.6 10.4 15.6

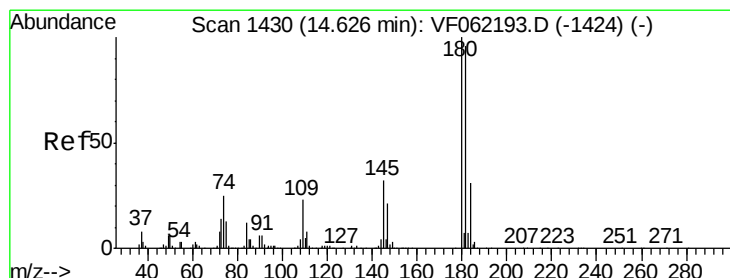
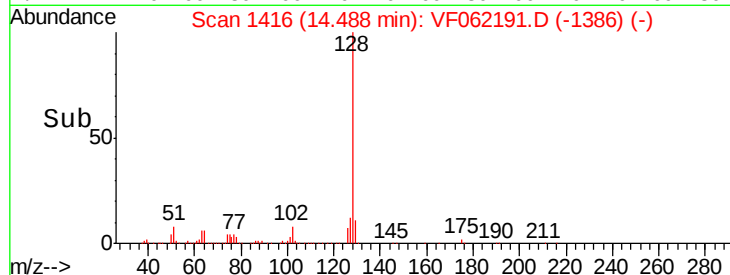
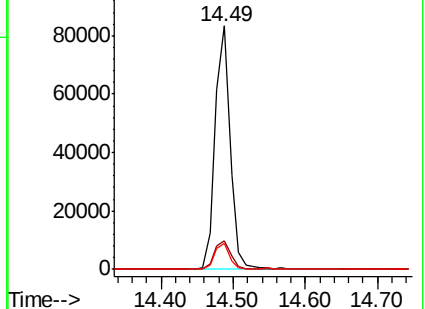
129 10.8 9.2 13.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 10.998 ug/l

RT: 14.63 min Scan# 1430

Delta R.T. -0.00 min

Lab File: VF062191.D

Acq: 17 Apr 2019 17:40

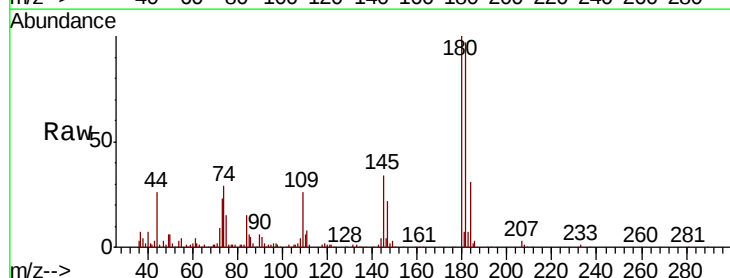
Tgt Ion:180 Resp: 67136

Ion Ratio Lower Upper

180 100

182 94.3 48.4 145.3

145 32.2 15.6 46.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

