

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062436.D
 Acq On : 10 May 2019 23:30
 Operator : FY/SY
 Sample : VD0510SBSD02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBSD02

Quant Time: May 11 05:39:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	316105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	424303	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	379054	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	235145	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	164841	55.18	ug/l	0.02
Spiked Amount			Recovery	=	110.36%	
35) Dibromofluoromethane	4.31	113	196134	58.02	ug/l	0.00
Spiked Amount			Recovery	=	116.04%	
50) Toluene-d8	7.72	98	456622	55.80	ug/l	0.02
Spiked Amount			Recovery	=	111.60%	
62) 4-Bromofluorobenzene	11.50	95	196132	53.13	ug/l	0.00
Spiked Amount			Recovery	=	106.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	79761	21.802	ug/l	95
3) Chloromethane	1.16	50	48100	19.935	ug/l	99
4) Vinyl Chloride	1.20	62	48329	20.081	ug/l	98
5) Bromomethane	1.39	94	39131	20.044	ug/l	99
6) Chloroethane	1.44	64	25515	21.087	ug/l #	86
7) Trichlorofluoromethane	1.57	101	110570	22.143	ug/l	98
8) Diethyl Ether	1.72	74	16848	22.299	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	1.91	101	65109	22.839	ug/l	97
10) Methyl Iodide	1.98	142	108288	23.050	ug/l	99
11) Tert butyl alcohol	2.70	59	14684	86.972	ug/l #	74
12) 1,1-Dichloroethene	1.88	96	50303	20.756	ug/l	96
13) Acrolein	2.10	56	9844	79.967	ug/l #	67
14) Allyl chloride	2.20	41	79008	36.905	ug/l #	92
15) Acrylonitrile	3.09	53	28649	89.579	ug/l	85
16) Acetone	2.35	43	55127	91.223	ug/l	93
17) Carbon Disulfide	1.92	76	93190	17.635	ug/l	97
18) Methyl Acetate	2.47	43	23767	19.666	ug/l	97
19) Methyl tert-butyl Ether	2.56	73	106883	21.365	ug/l	96
20) Methylene Chloride	2.34	84	35506	16.239	ug/l	90
21) trans-1,2-Dichloroethene	2.43	96	47844	20.720	ug/l	96
22) Diisopropyl ether	2.94	45	140847	21.050	ug/l #	97
23) Vinyl Acetate	3.35	43	305211	102.346	ug/l	98
24) 1,1-Dichloroethane	3.02	63	92559	22.888	ug/l	99
25) 2-Butanone	4.53	43	73951	97.404	ug/l	99
26) 2,2-Dichloropropane	3.78	77	53476	23.680	ug/l	96
27) cis-1,2-Dichloroethene	3.65	96	62656	21.708	ug/l	95
28) Bromochloromethane	3.91	49	36743	20.034	ug/l	100
29) Tetrahydrofuran	4.27	42	34319	98.354	ug/l	95
30) Chloroform	4.05	83	128639	23.546	ug/l	98
31) Cyclohexane	3.88	56	70967	21.986	ug/l	98
32) 1,1,1-Trichloroethane	4.29	97	112746	24.079	ug/l	95
36) 1,1-Dichloropropene	4.48	75	83551	22.923	ug/l	98
37) Ethyl Acetate	4.31	43	31281	18.745	ug/l #	94
38) Carbon Tetrachloride	4.19	117	121764	31.160	ug/l #	93

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 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	79526	21.755	ug/l	98
40) Benzene	4.83	78	184892	23.036	ug/l	99
41) Methacrylonitrile	4.94	41	16500	18.879	ug/l #	62
42) 1,2-Dichloroethane	5.13	62	69627	20.741	ug/l	97
43) Isopropyl Acetate	7.12	43	31519	19.012	ug/l #	99
44) Trichloroethene	5.69	130	66488	22.550	ug/l	99
45) 1,2-Dichloropropane	6.41	63	39756	21.868	ug/l	89
46) Dibromomethane	6.27	93	32759	21.733	ug/l	98
47) Bromodichloromethane	6.56	83	82540	21.902	ug/l	97
48) Methyl methacrylate	6.88	41	25042	21.374	ug/l	99
49) 1,4-Dioxane	6.88	88	4330	350.860	ug/l	90
51) 4-Methyl-2-Pentanone	8.41	43	126180	100.441	ug/l	97
52) Toluene	7.78	92	102574	20.716	ug/l	96
53) t-1,3-Dichloropropene	8.43	75	57171	20.058	ug/l	99
54) cis-1,3-Dichloropropene	7.47	75	69692	21.009	ug/l	98
55) 1,1,2-Trichloroethane	8.64	97	33166	21.100	ug/l	87
56) Ethyl methacrylate	8.77	69	32259	19.442	ug/l	95
57) 1,3-Dichloropropane	9.00	76	51310	21.610	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.46	63	51715	103.669	ug/l	95
59) 2-Hexanone	9.62	43	88540	101.907	ug/l	96
60) Dibromochloromethane	8.87	129	53011	20.620	ug/l	99
61) 1,2-Dibromoethane	9.14	107	37899	20.514	ug/l	95
64) Tetrachloroethene	8.31	164	67906	22.067	ug/l	97
65) Chlorobenzene	9.94	112	133274	21.250	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.07	131	64667	20.439	ug/l	99
67) Ethyl Benzene	10.04	91	236880	21.569	ug/l	97
68) m/p-Xylenes	10.26	106	174242	43.001	ug/l	100
69) o-Xylene	10.83	106	90200	20.600	ug/l	97
70) Styrene	10.90	104	134952	20.565	ug/l	99
71) Bromoform	10.89	173	33161	19.131	ug/l #	91
73) Isopropylbenzene	11.22	105	285846	20.505	ug/l	98
74) N-amyl acetate	11.45	43	57702	19.280	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	43255	19.817	ug/l	97
76) 1,2,3-Trichloropropane	11.87	75	33079	19.864	ug/l #	100
77) Bromobenzene	11.59	156	76430	20.891	ug/l	98
78) n-propylbenzene	11.67	91	309156	20.830	ug/l	99
79) 2-Chlorotoluene	11.80	91	186692	20.229	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	259777	21.261	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	8683	13.872	ug/l #	74
82) 4-Chlorotoluene	11.98	91	193433	21.221	ug/l	100
83) tert-Butylbenzene	12.20	119	263404	20.513	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	245068	20.495	ug/l	99
85) sec-Butylbenzene	12.37	105	338531	21.659	ug/l	99
86) p-Isopropyltoluene	12.52	119	317981	21.897	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	148805	22.270	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	132489	20.544	ug/l	98
89) n-Butylbenzene	12.90	91	271890	21.045	ug/l	98
90) Hexachloroethane	12.98	117	72923	20.112	ug/l	98
91) 1,2-Dichlorobenzene	13.01	146	139908	21.633	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.70	75	9233	18.882	ug/l	91

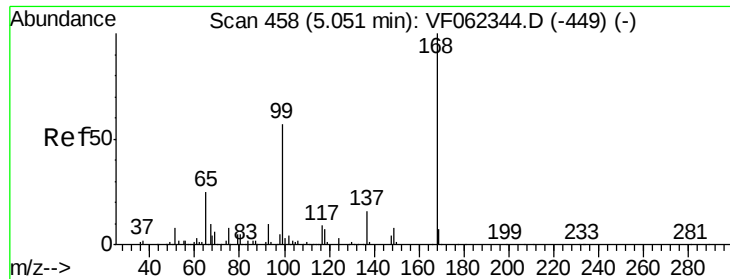
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	127538	21.985	ug/l	98
94) Hexachlorobutadiene	14.23	225	93283	21.575	ug/l	98
95) Naphthalene	14.49	128	176474	20.235	ug/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	114953	20.454	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

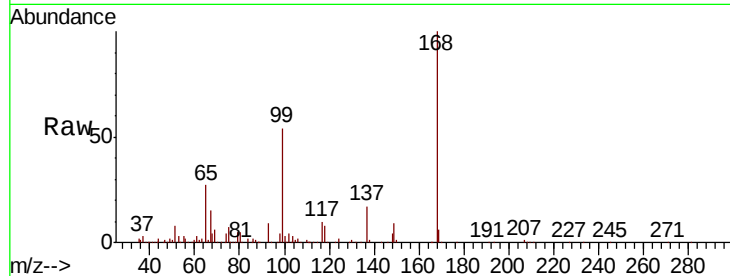
VF0510SBS02

Tot Ion:168 Resp: 316105

Ion Ratio Lower Upper

168 100

99 54.3 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.06

120000

100000

80000

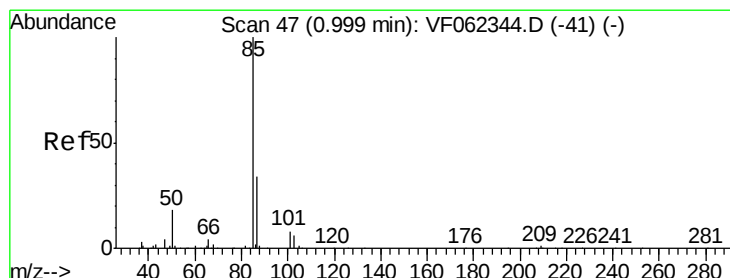
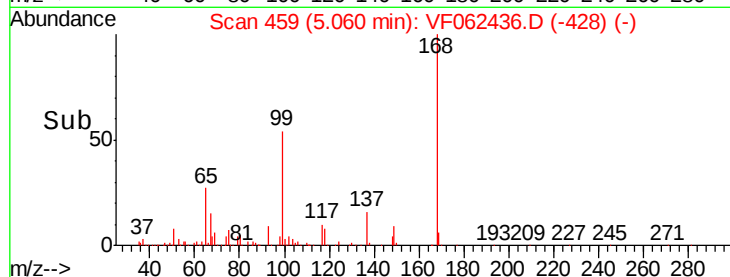
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.802 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062436.D

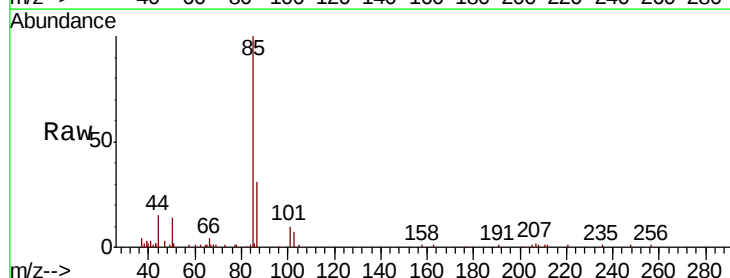
Acq: 10 May 2019 23:30

Tgt Ion: 85 Resp: 79761

Ion Ratio Lower Upper

85 100

87 31.0 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

25000

20000

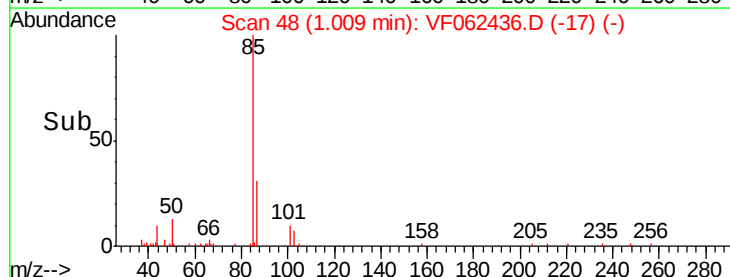
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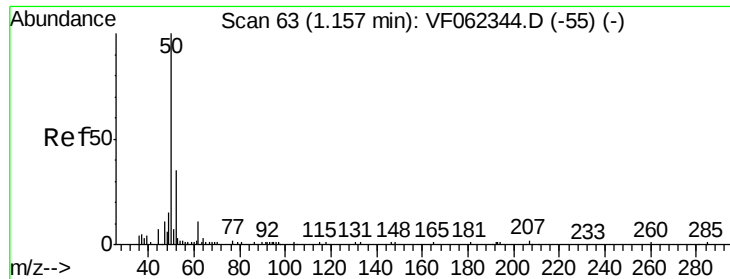
10000

5000

0

Time-->





#3

Chloromethane

Concen: 19.935 ug/l

RT: 1.16 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

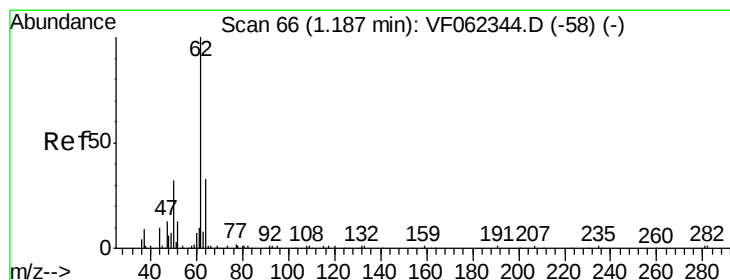
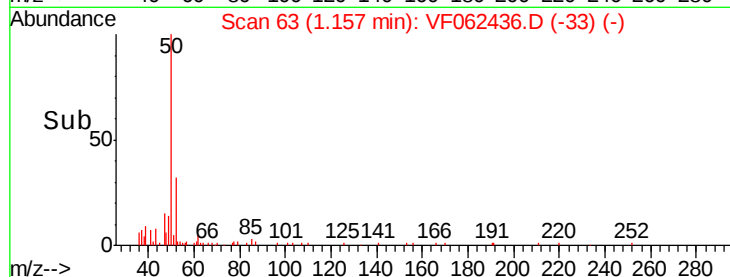
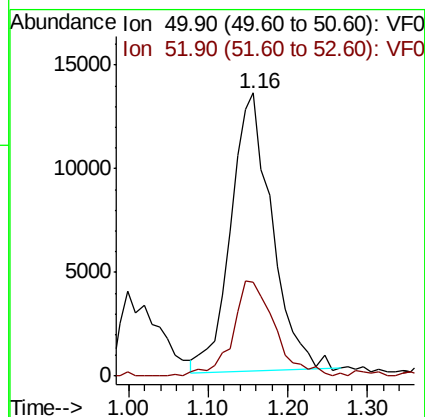
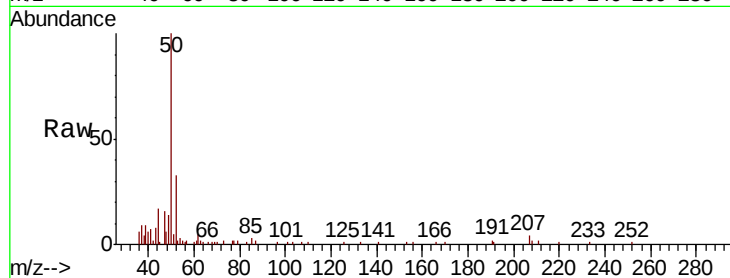
VF0510SBSD02

Tot Ion: 50 Resp: 48100

Ion Ratio Lower Upper

50 100

52 32.9 26.1 39.1



#4

Vinyl Chloride

Concen: 20.081 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062436.D

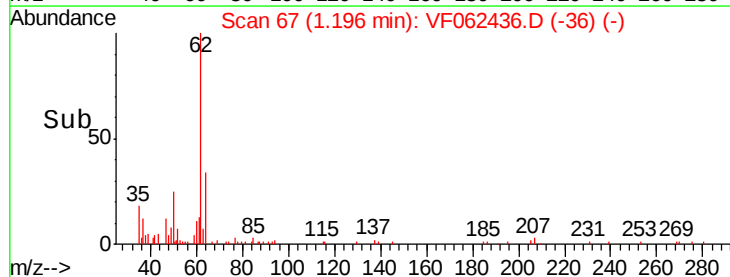
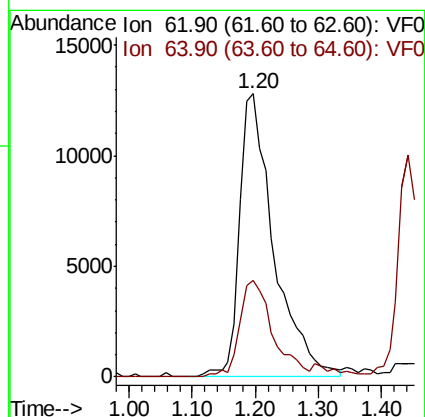
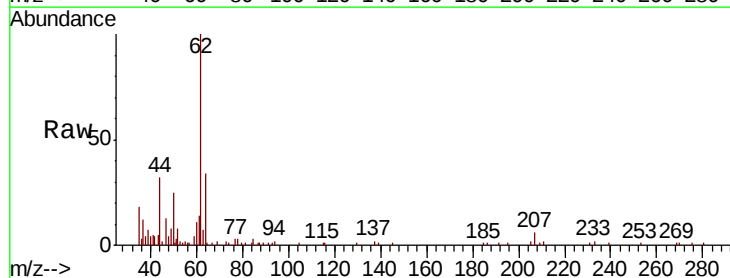
Acq: 10 May 2019 23:30

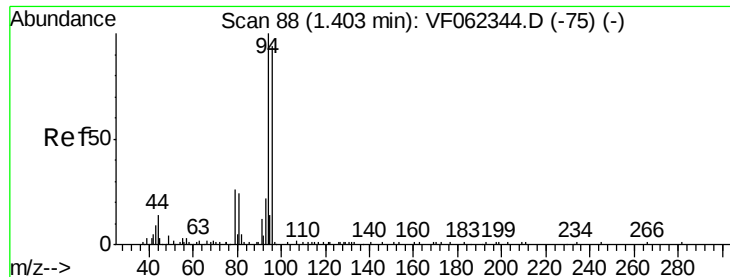
Tgt Ion: 62 Resp: 48329

Ion Ratio Lower Upper

62 100

64 34.0 26.1 39.1





#5

Bromomethane

Concen: 20.044 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

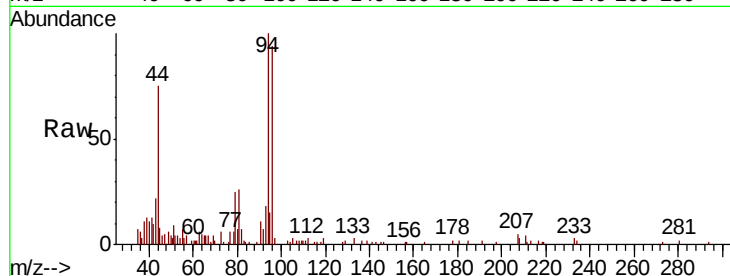
VF0510SBSD02

Tot Ion: 94 Resp: 39131

Ion Ratio Lower Upper

94 100

96 95.2 75.4 113.2



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.39

10000

8000

6000

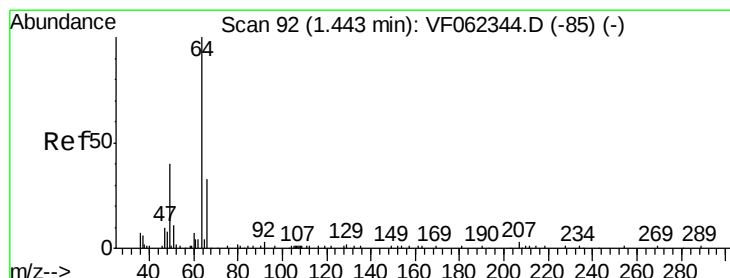
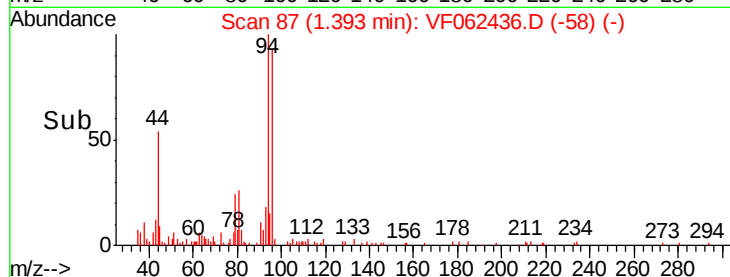
4000

2000

0

1.30 1.40 1.50

Time-->



#6

Chloroethane

Concen: 21.087 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VF062436.D

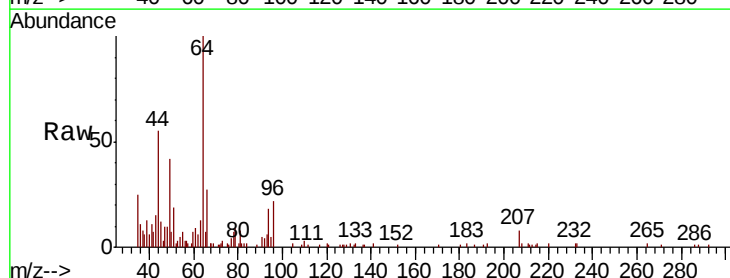
Acq: 10 May 2019 23:30

Tgt Ion: 64 Resp: 25515

Ion Ratio Lower Upper

64 100

66 25.4 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0

1.44

12000

10000

8000

6000

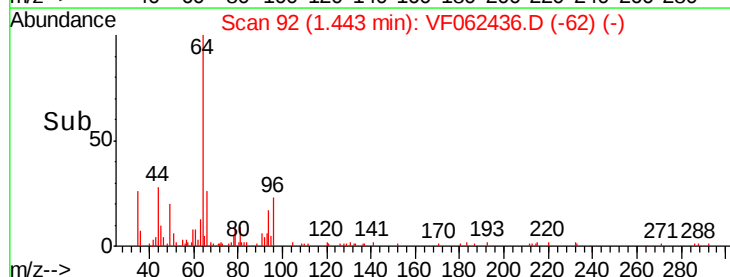
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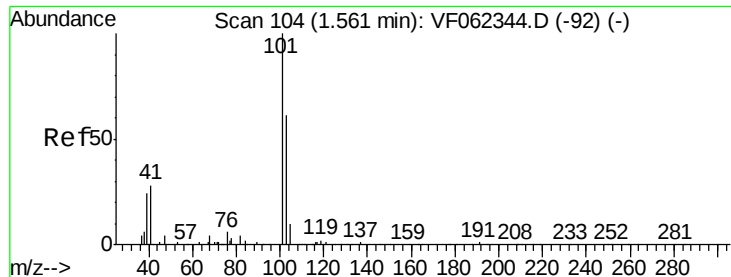
2000

0

1.30 1.40 1.50 1.60

Time-->



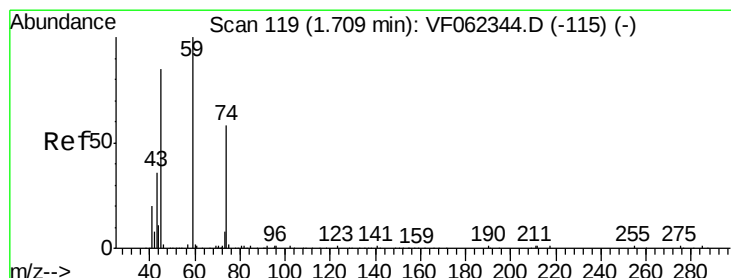
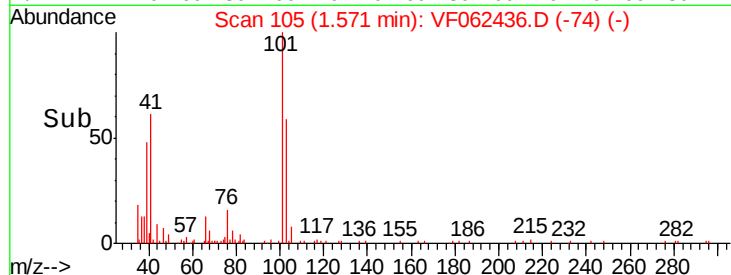
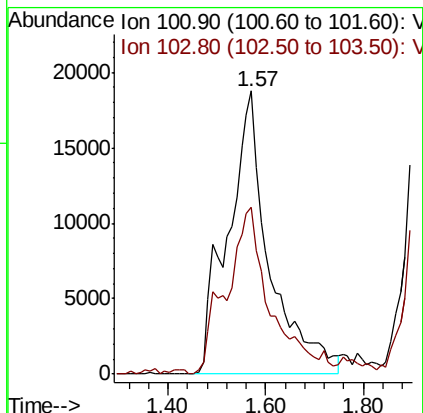
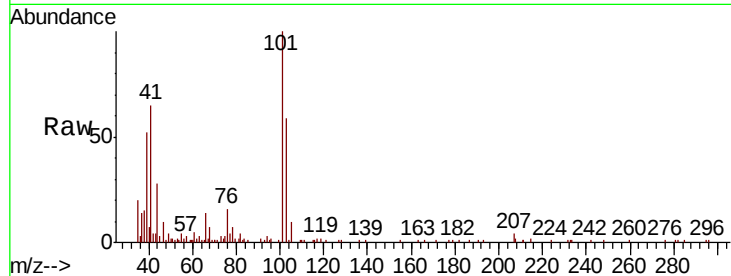


#7

Trichlorofluoromethane
Concen: 22.143 ug/l
RT: 1.57 min Scan# 105
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBSD02

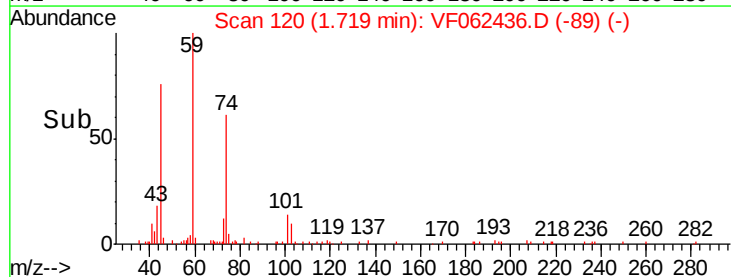
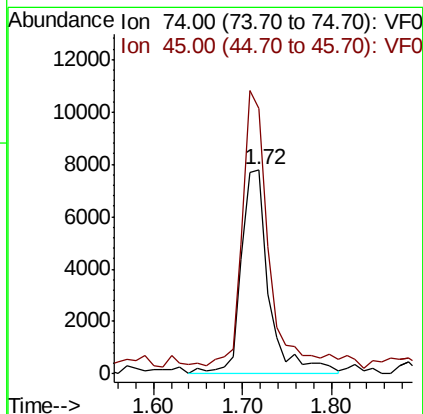
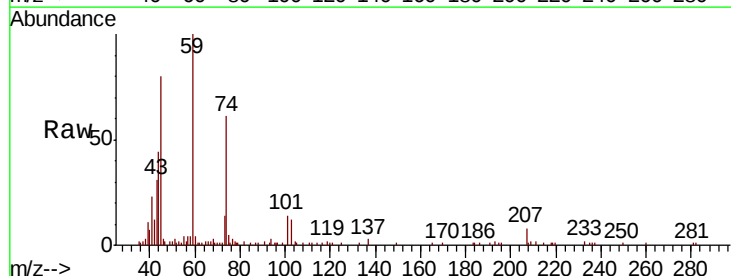
Tot Ion:101 Resp: 110570
Ion Ratio Lower Upper
101 100
103 58.8 48.5 72.7



#8

Diethyl Ether
Concen: 22.299 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Tgt Ion: 74 Resp: 16848
Ion Ratio Lower Upper
74 100
45 123.1 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.839 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBSD02

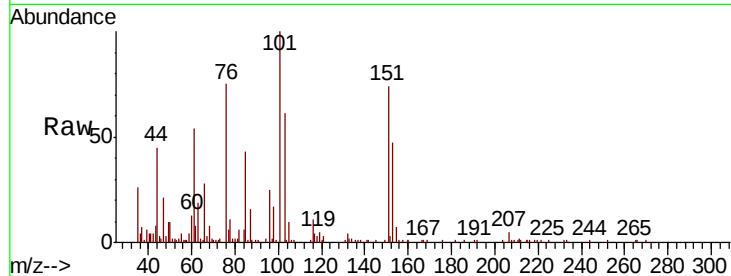
Tot Ion:101 Resp: 65109

Ion Ratio Lower Upper

101 100

85 48.1 39.5 59.3

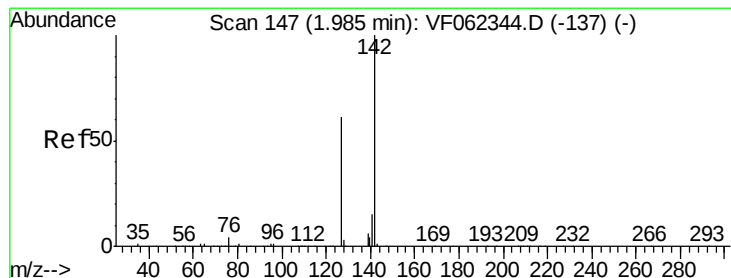
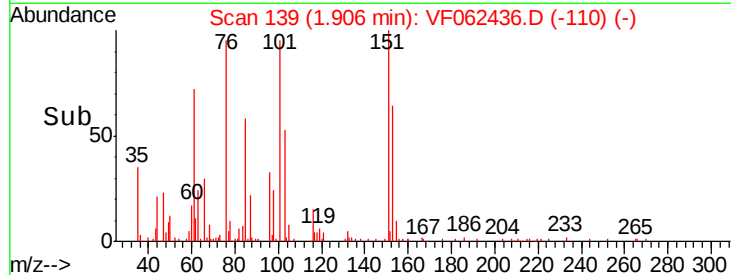
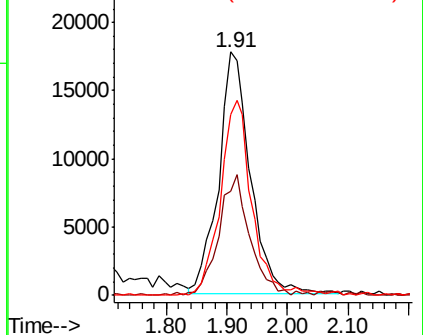
151 77.5 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 23.050 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

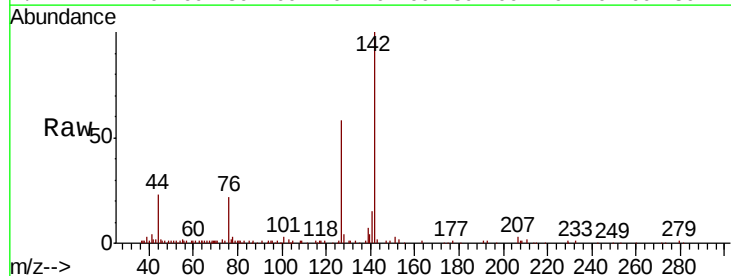
Tgt Ion:142 Resp: 108288

Ion Ratio Lower Upper

142 100

127 60.0 48.4 72.6

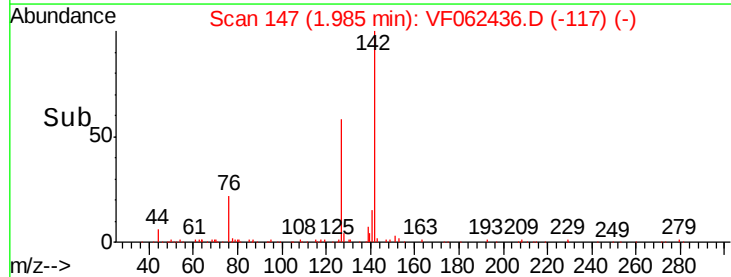
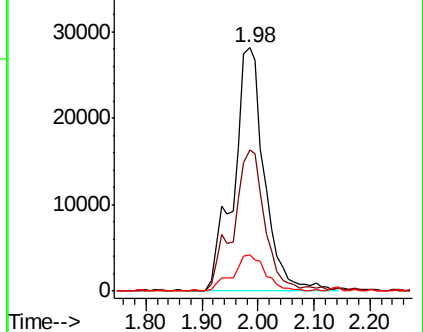
141 15.9 12.2 18.4

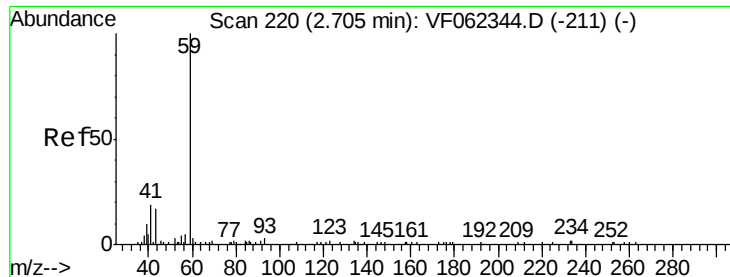


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



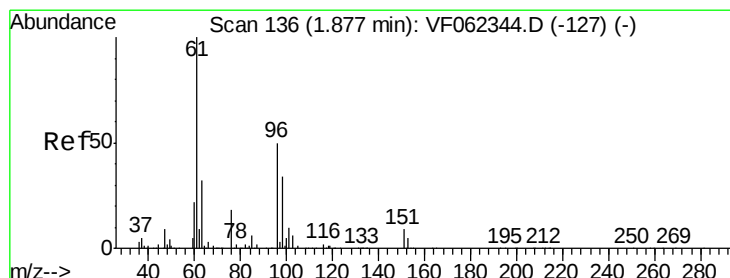
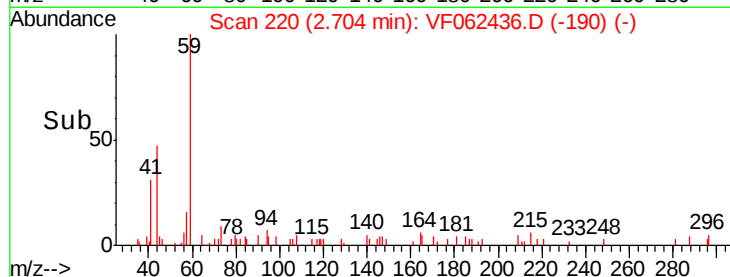
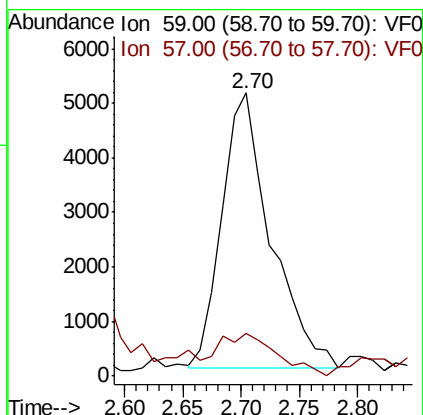
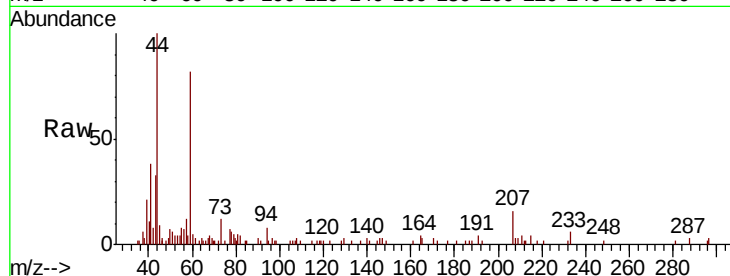


#11

Tert butyl alcohol
 Concen: 86.972 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS02

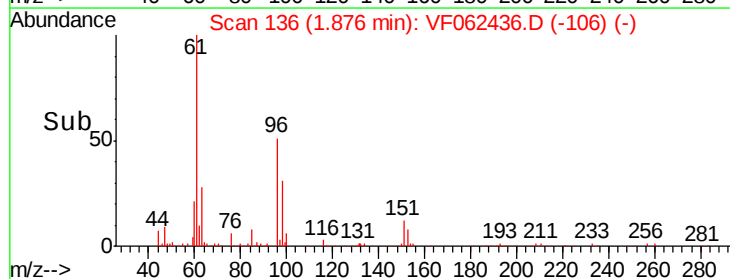
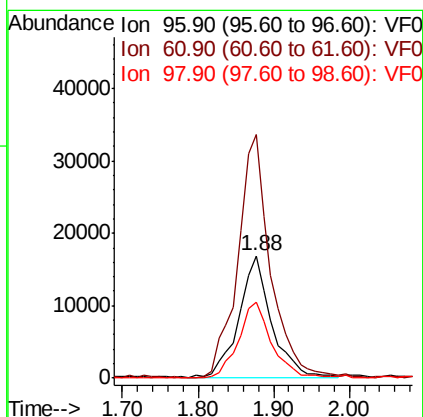
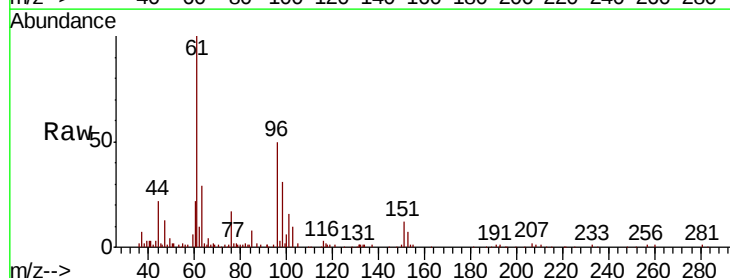
Tot Ion: 59 Resp: 14684
 Ion Ratio Lower Upper
 59 100
 57 21.7 9.3 13.9#

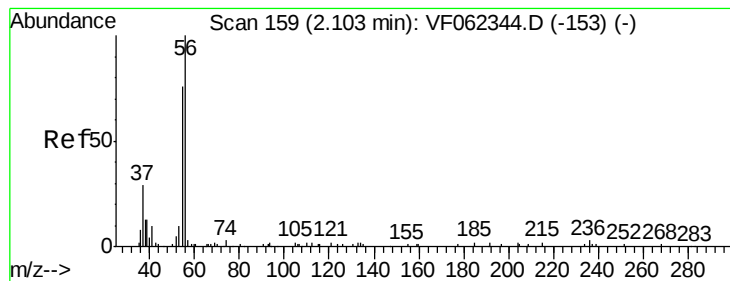


#12

1,1-Dichloroethene
 Concen: 20.756 ug/l
 RT: 1.88 min Scan# 136
 Delta R.T. -0.00 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion: 96 Resp: 50303
 Ion Ratio Lower Upper
 96 100
 61 199.5 163.2 244.8
 98 62.3 55.2 82.8





#13

Acrolein

Concen: 79.967 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

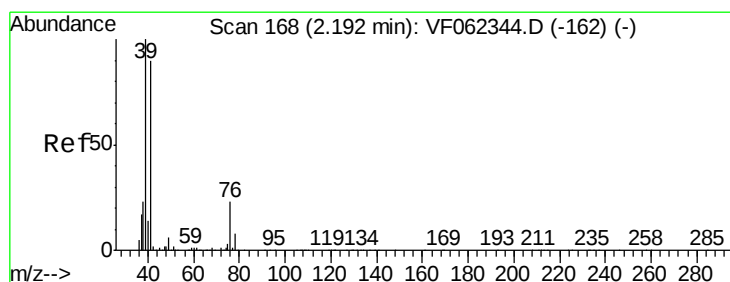
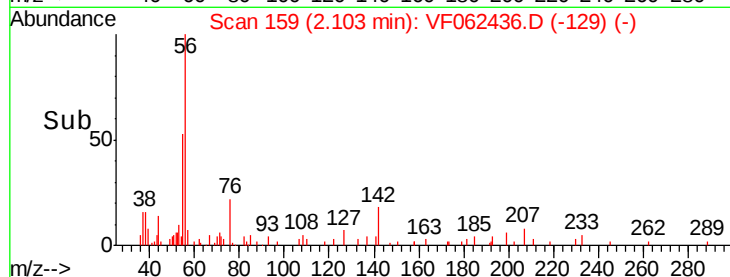
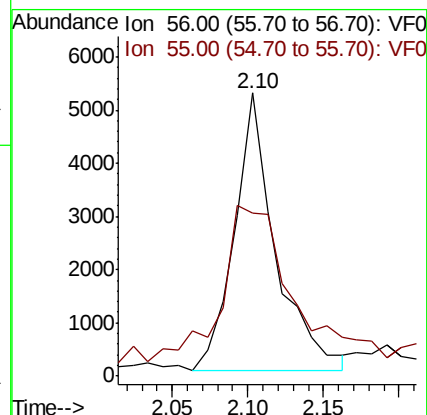
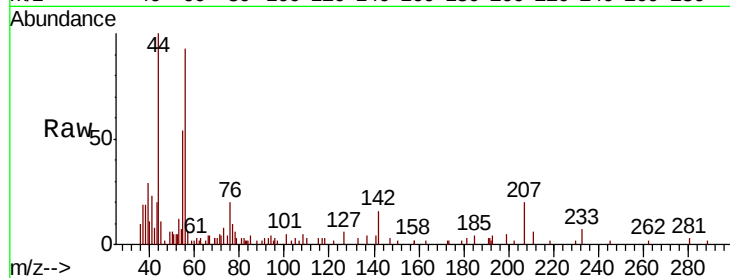
VF0510SBS02

Tot Ion: 56 Resp: 9844

Ion Ratio Lower Upper

56 100

55 100.5 58.4 87.6#



#14

Allyl chloride

Concen: 36.905 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

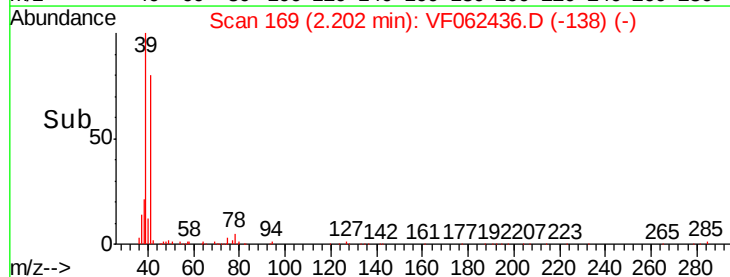
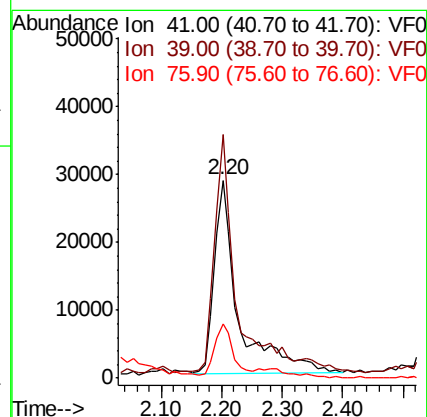
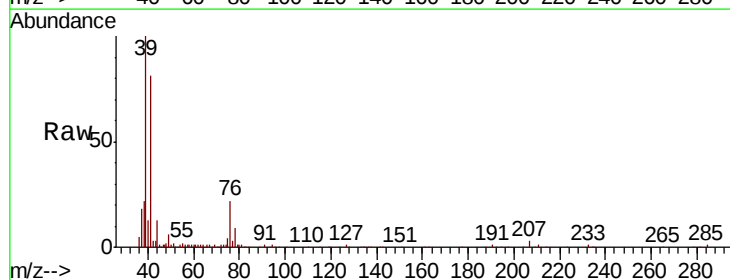
Tgt Ion: 41 Resp: 79008

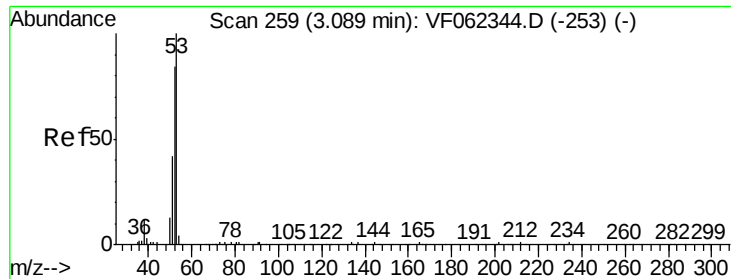
Ion Ratio Lower Upper

41 100

39 107.4 90.8 136.2

76 19.2 22.2 33.4#





#15

Acrylonitrile

Concen: 89.579 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

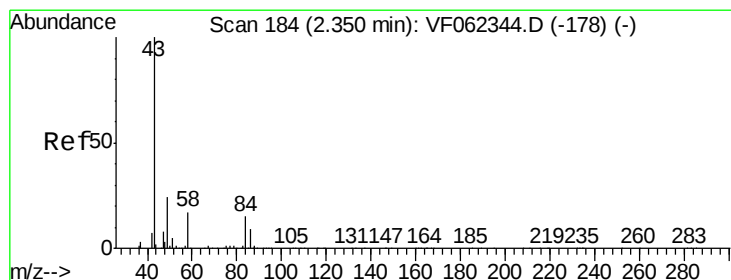
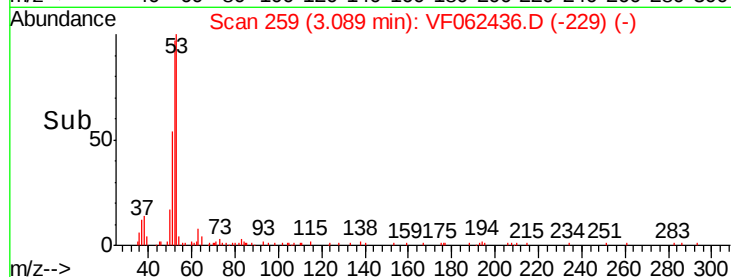
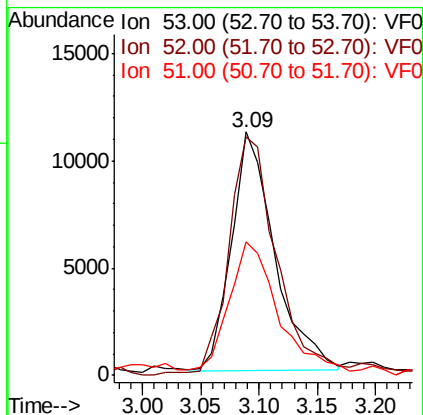
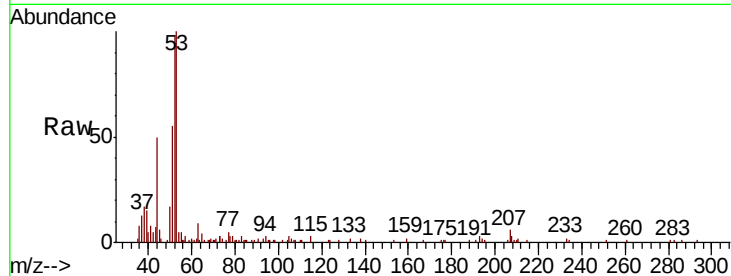
Tot Ion: 53 Resp: 28649

Ion Ratio Lower Upper

53 100

52 111.7 77.2 115.8

51 60.0 40.6 61.0



#16

Acetone

Concen: 91.223 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062436.D

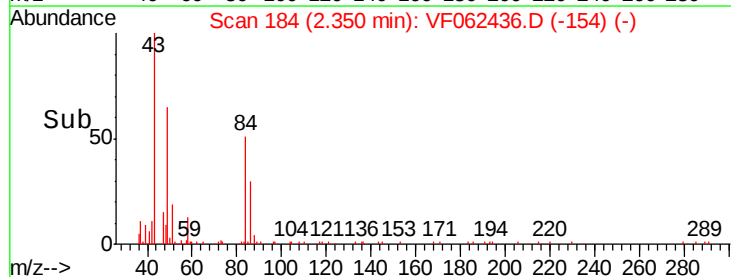
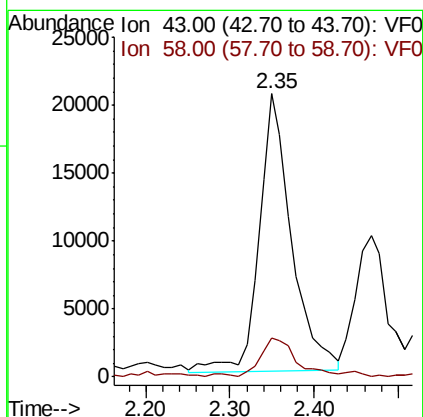
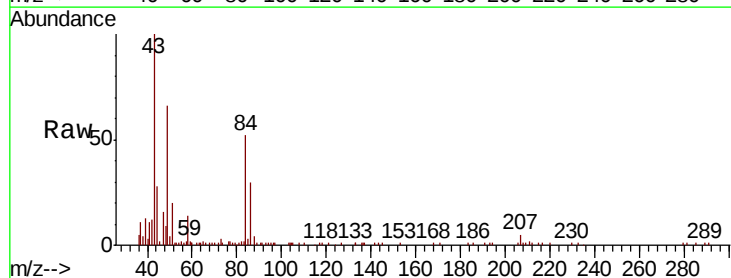
Acq: 10 May 2019 23:30

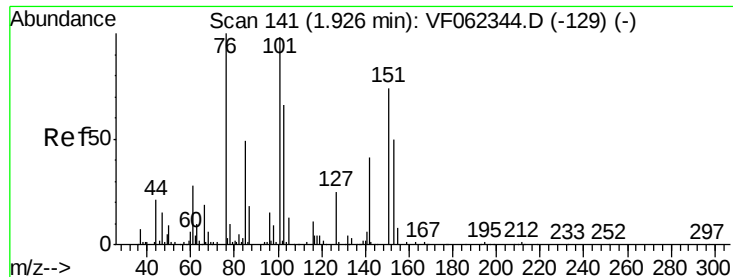
Tgt Ion: 43 Resp: 55127

Ion Ratio Lower Upper

43 100

58 13.3 13.1 19.7

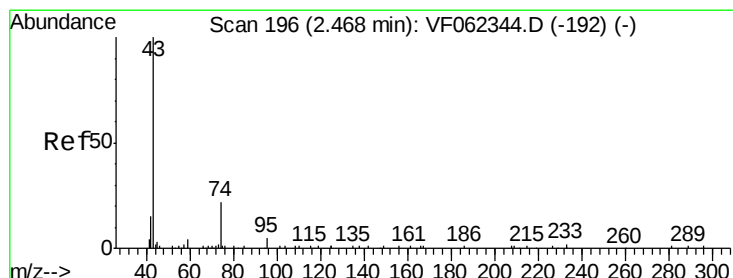
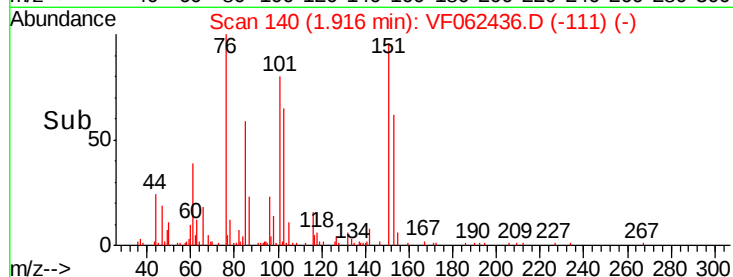
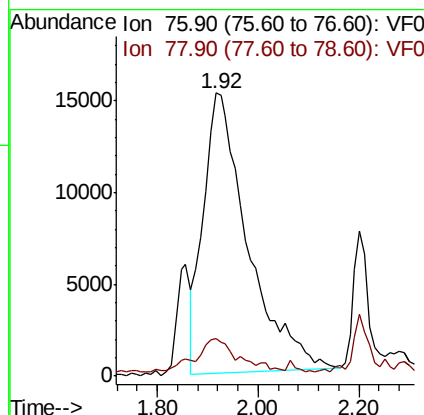
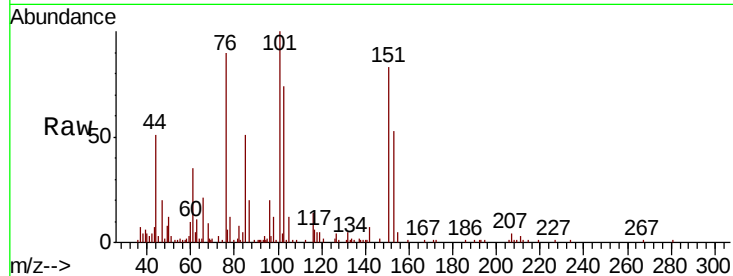




#17
Carbon Disulfide
Concen: 17.635 ug/l
RT: 1.92 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

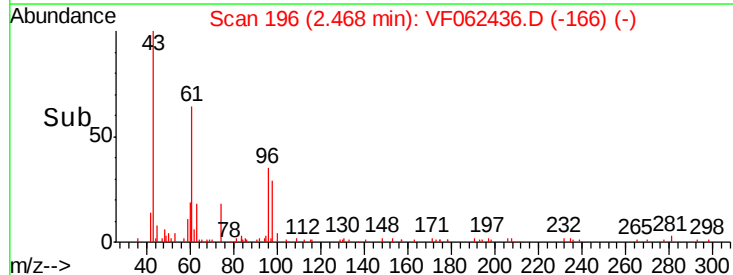
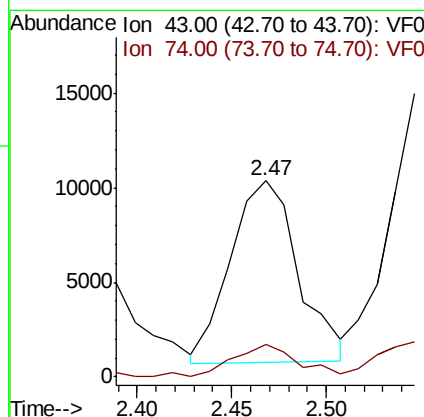
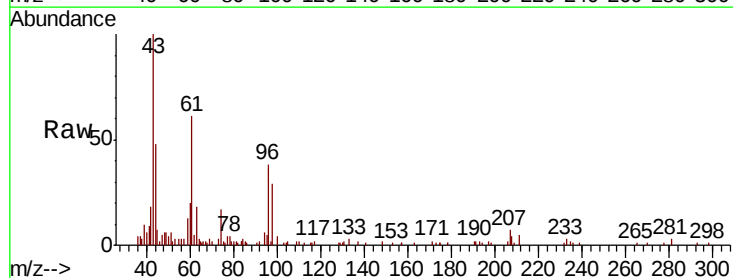
Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS02

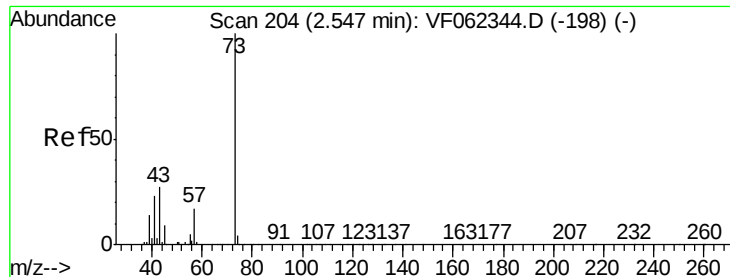
Tot Ion: 76 Resp: 93190
Ion Ratio Lower Upper
76 100
78 9.9 9.0 13.4



#18
Methyl Acetate
Concen: 19.666 ug/l
RT: 2.47 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Tgt Ion: 43 Resp: 23767
Ion Ratio Lower Upper
43 100
74 17.3 15.0 22.4



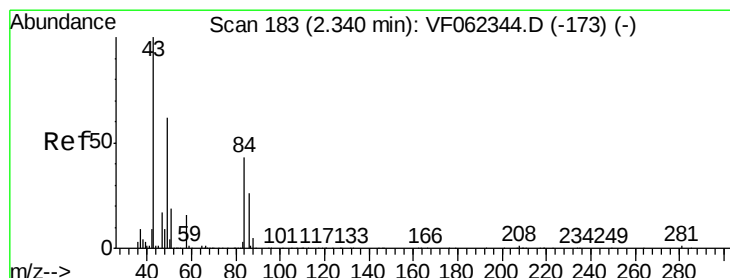
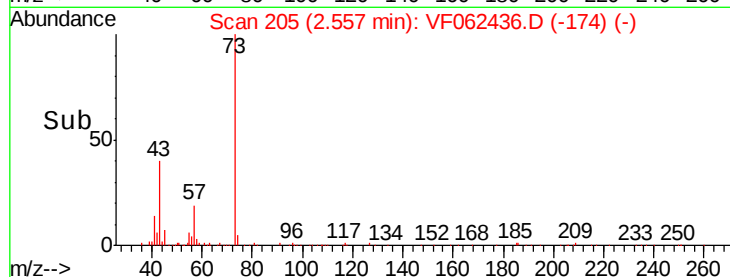
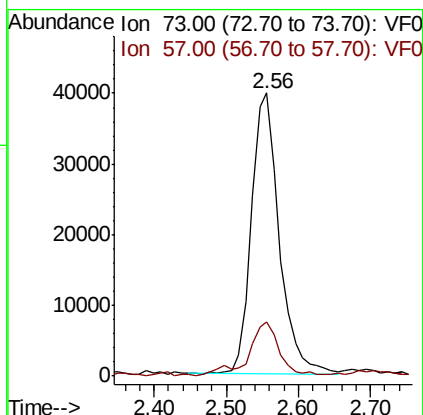
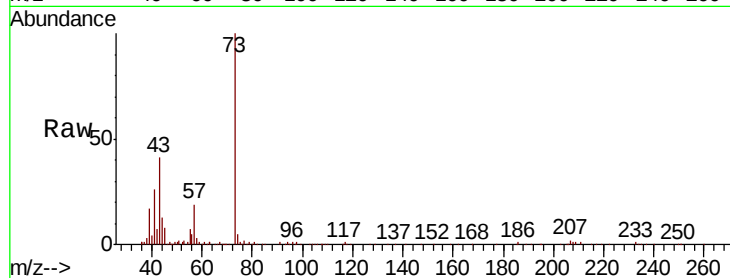


#19

Methyl tert-butyl Ether
 Concen: 21.365 ug/l
 RT: 2.56 min Scan# 205
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBSD02

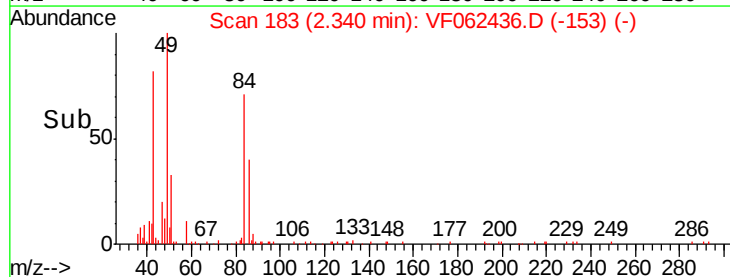
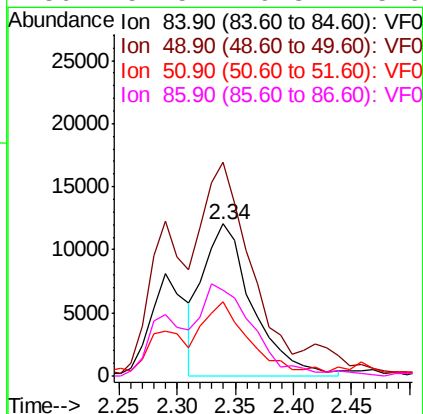
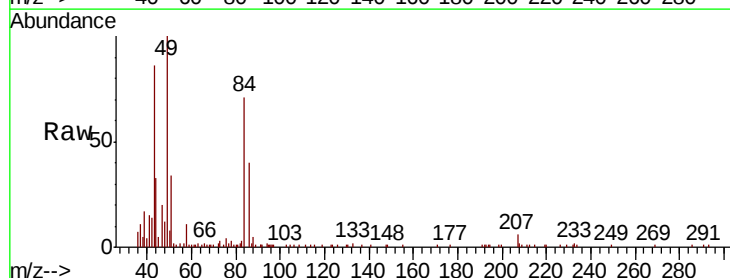
Tot Ion: 73 Resp: 106883
 Ion Ratio Lower Upper
 73 100
 57 18.6 13.7 20.5

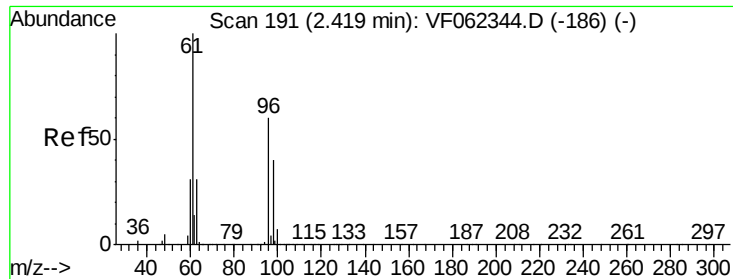


#20

Methylene Chloride
 Concen: 16.239 ug/l
 RT: 2.34 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion: 84 Resp: 35506
 Ion Ratio Lower Upper
 84 100
 49 130.9 117.5 176.3
 51 44.3 37.0 55.4
 86 54.5 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 20.720 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

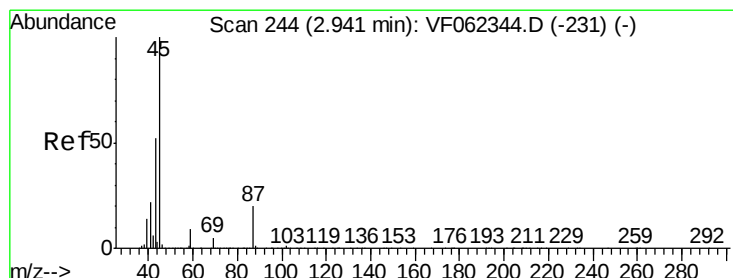
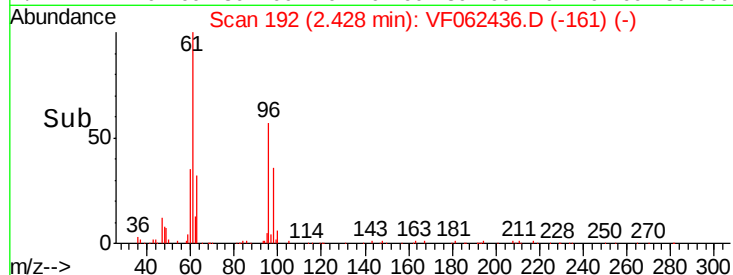
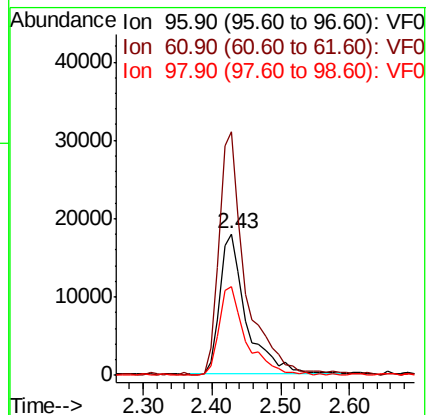
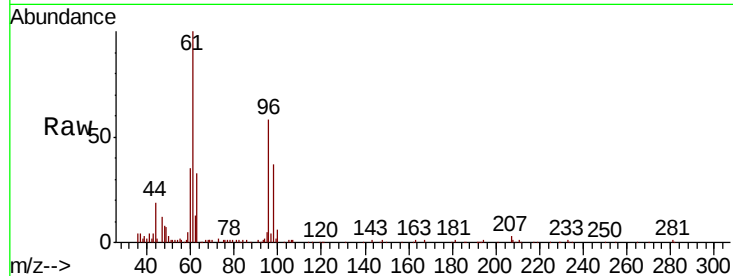
Tot Ion: 96 Resp: 47844

Ion Ratio Lower Upper

96 100

61 172.8 133.2 199.8

98 63.6 53.1 79.7



#22

Diisopropyl ether

Concen: 21.050 ug/l

RT: 2.94 min Scan# 244

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Tgt Ion: 45 Resp: 140847

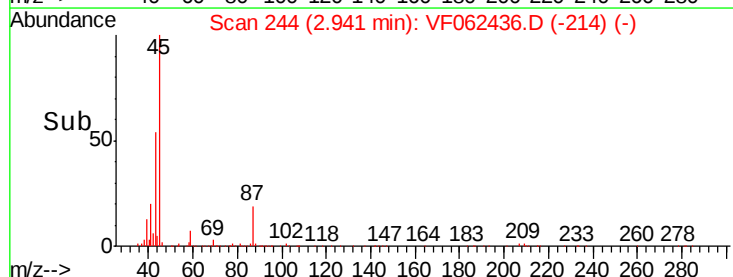
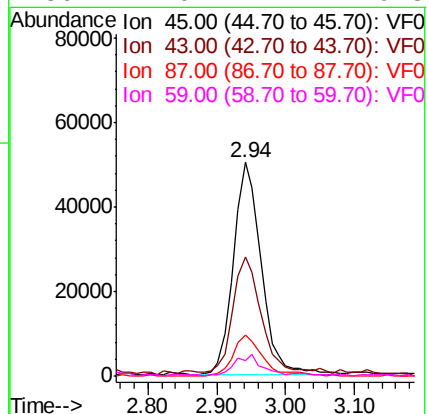
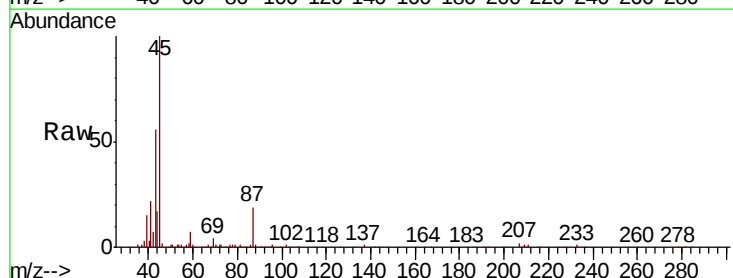
Ion Ratio Lower Upper

45 100

43 53.7 41.4 62.0

87 19.1 15.8 23.6

59 7.0 7.2 10.8#





#23

Vinyl Acetate

Concen: 102.346 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

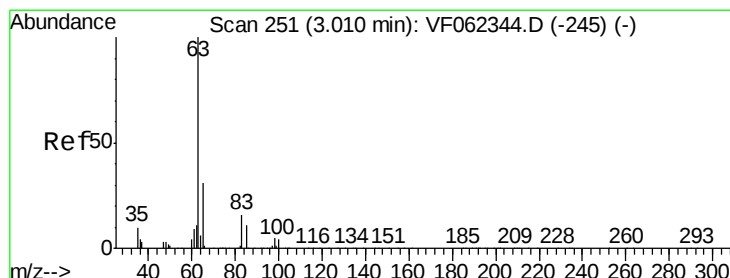
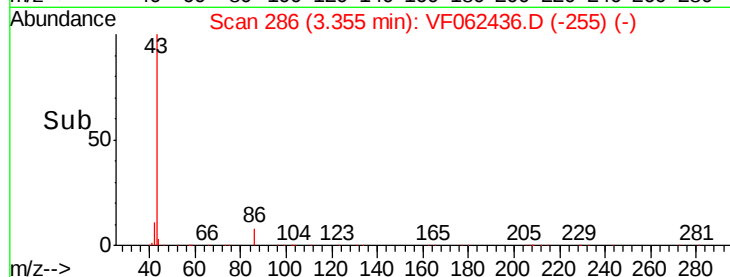
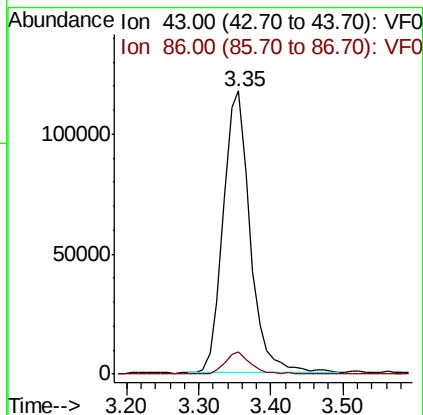
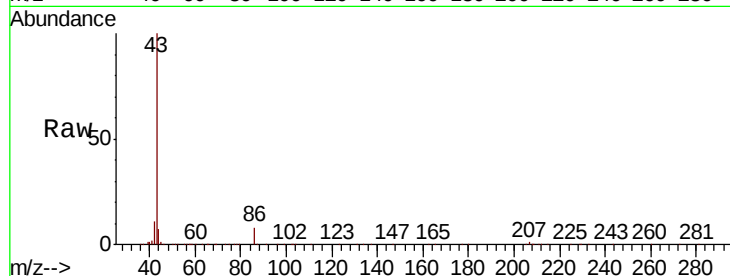
VF0510SBS02

Tot Ion: 43 Resp: 305211

Ion Ratio Lower Upper

43 100

86 7.7 5.7 8.5



#24

1,1-Dichloroethane

Concen: 22.888 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

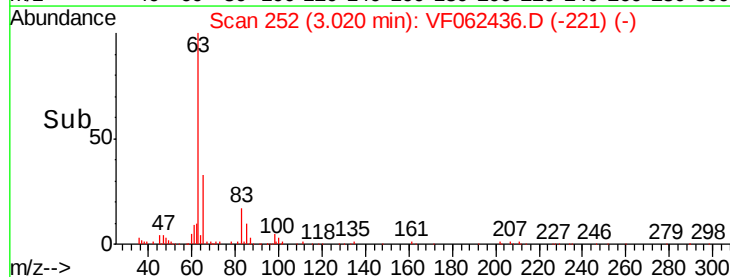
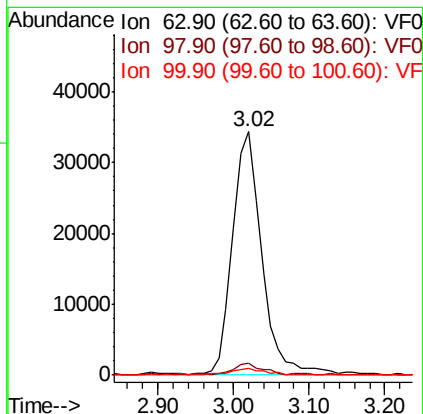
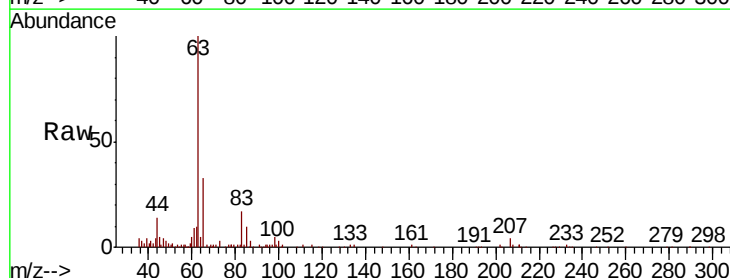
Tgt Ion: 63 Resp: 92559

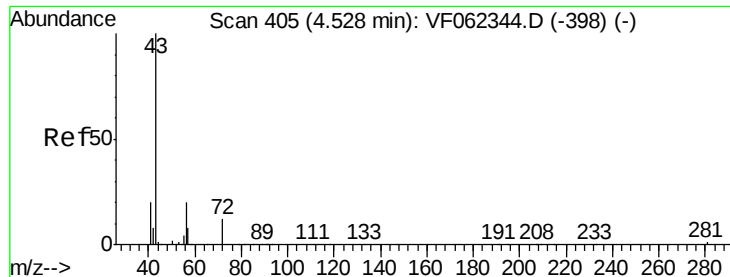
Ion Ratio Lower Upper

63 100

98 5.2 2.6 8.0

100 3.0 1.8 5.4





#25

2-Butanone

Concen: 97.404 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

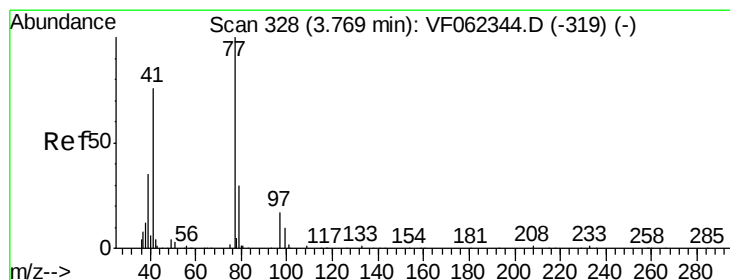
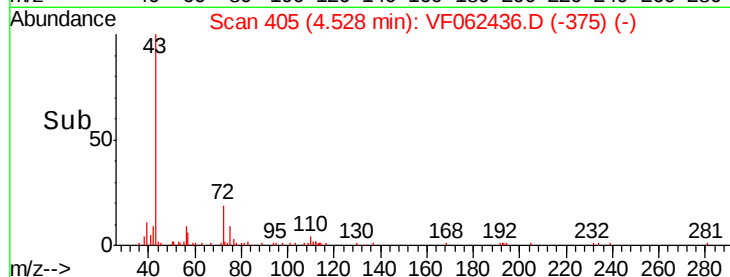
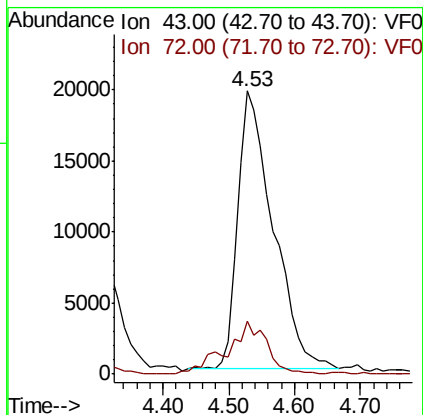
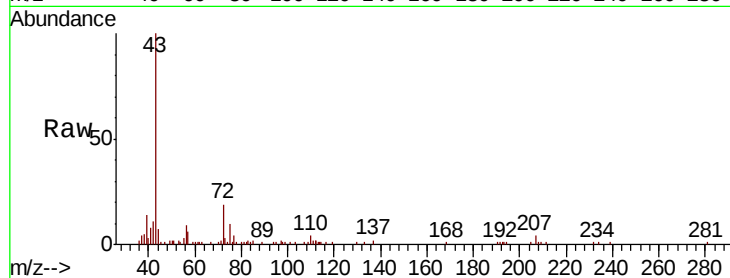
VF0510SBS02

Tot Ion: 43 Resp: 73951

Ion Ratio Lower Upper

43 100

72 18.4 14.2 21.4



#26

2,2-Dichloropropane

Concen: 23.680 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.01 min

Lab File: VF062436.D

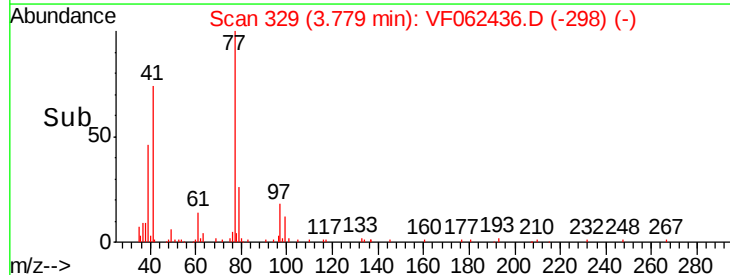
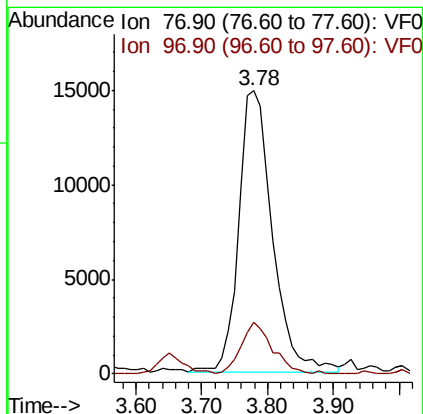
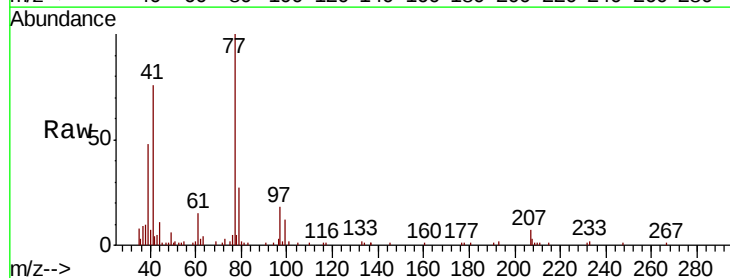
Acq: 10 May 2019 23:30

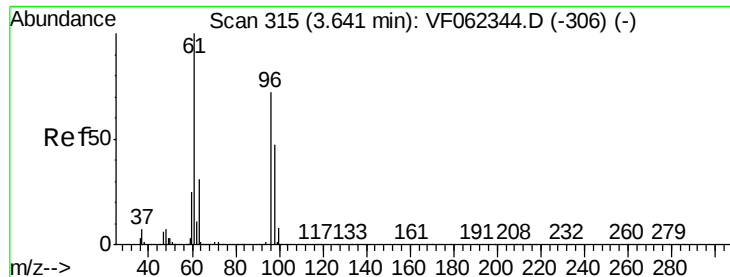
Tgt Ion: 77 Resp: 53476

Ion Ratio Lower Upper

77 100

97 17.1 9.5 28.5



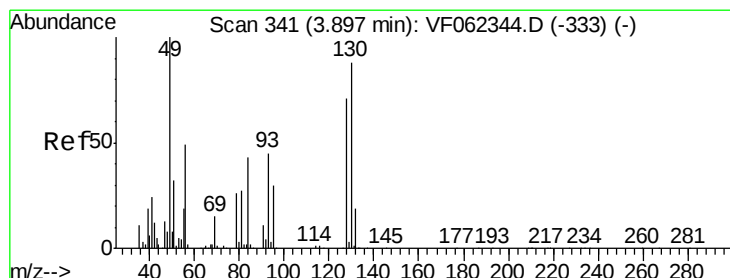
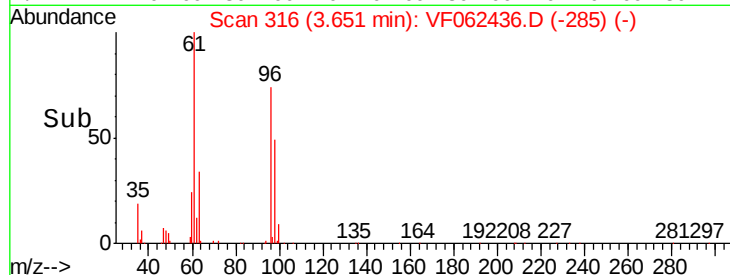
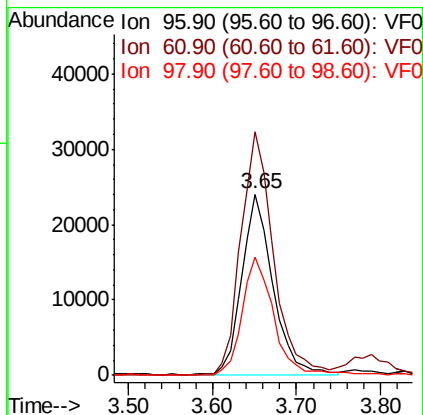
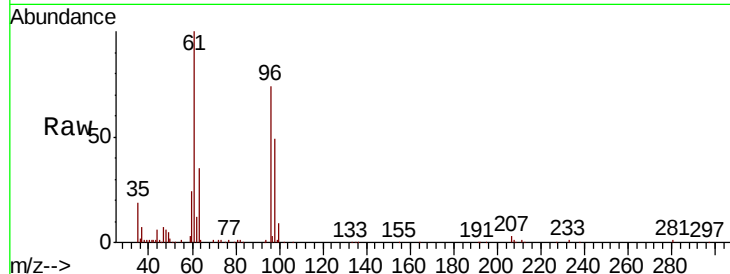


#27

cis-1,2-Dichloroethene
 Concen: 21.708 ug/l
 RT: 3.65 min Scan# 316
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS02

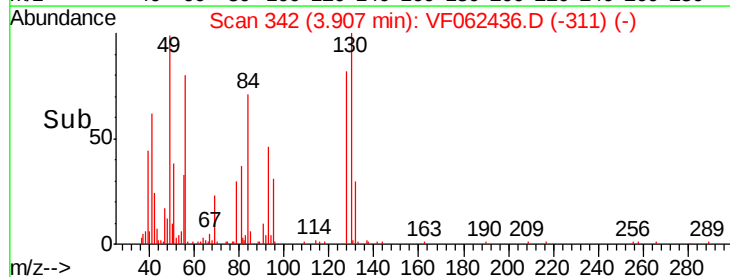
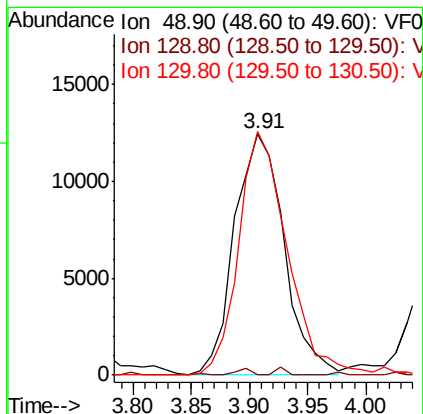
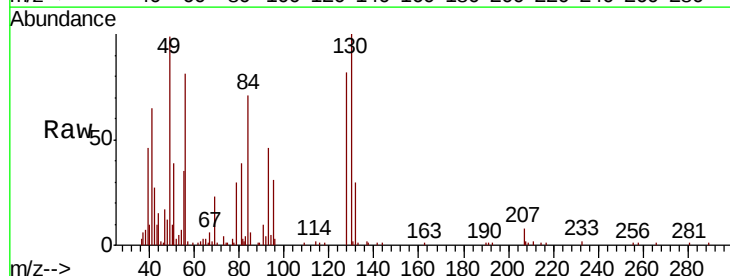
Tot Ion: 96 Resp: 62656
 Ion Ratio Lower Upper
 96 100
 61 139.8 0.0 263.0
 98 64.8 0.0 130.8

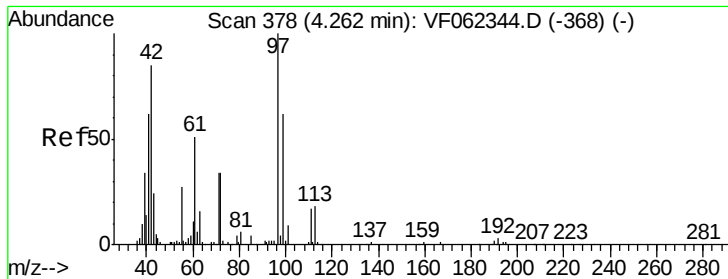


#28

Bromochloromethane
 Concen: 20.034 ug/l
 RT: 3.91 min Scan# 342
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion: 49 Resp: 36743
 Ion Ratio Lower Upper
 49 100
 129 0.8 0.0 2.2
 130 98.8 79.4 119.0





#29

Tetrahydrofuran

Concen: 98.354 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

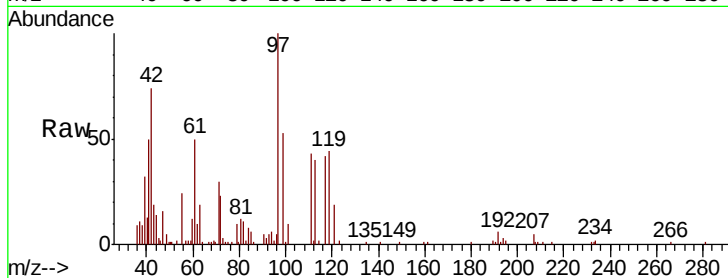
Tot Ion: 42 Resp: 34319

Ion Ratio Lower Upper

42 100

72 33.4 31.4 47.0

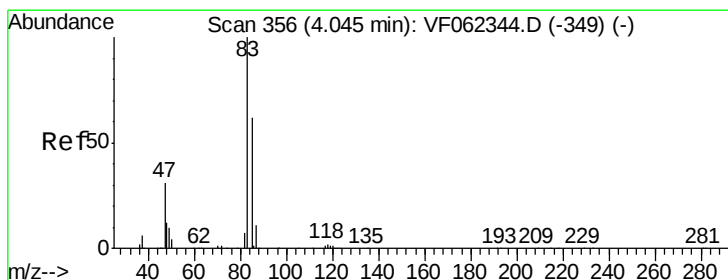
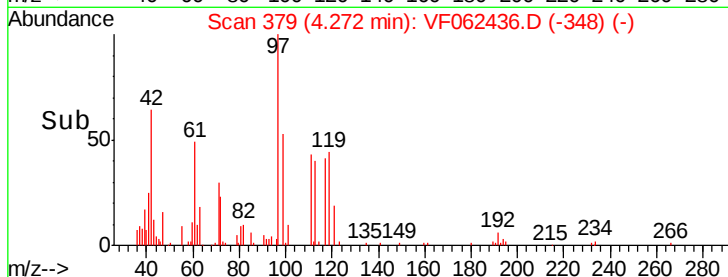
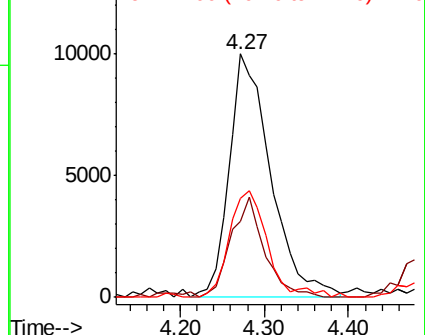
71 40.4 31.7 47.5



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: 23.546 ug/l

RT: 4.05 min Scan# 357

Delta R.T. 0.01 min

Lab File: VF062436.D

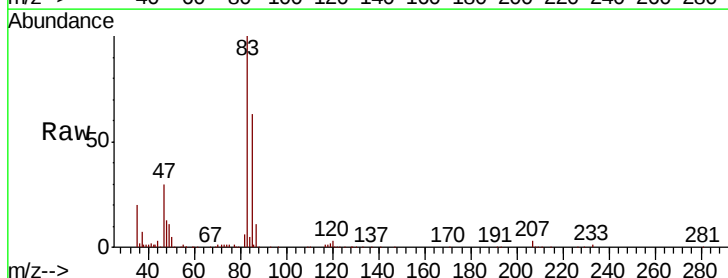
Acq: 10 May 2019 23:30

Tgt Ion: 83 Resp: 128639

Ion Ratio Lower Upper

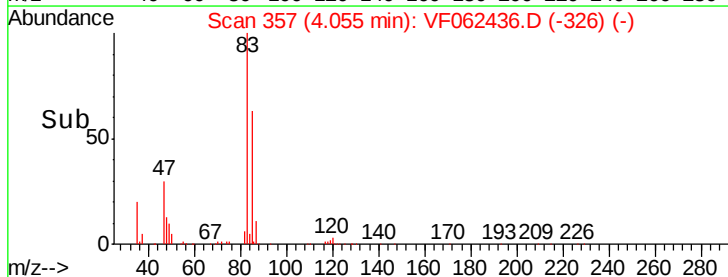
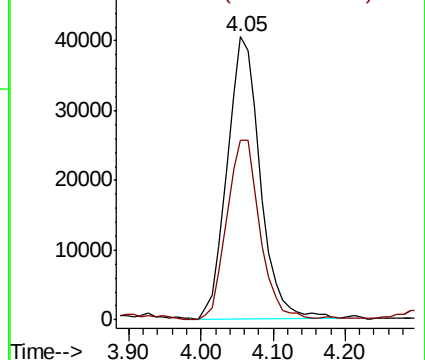
83 100

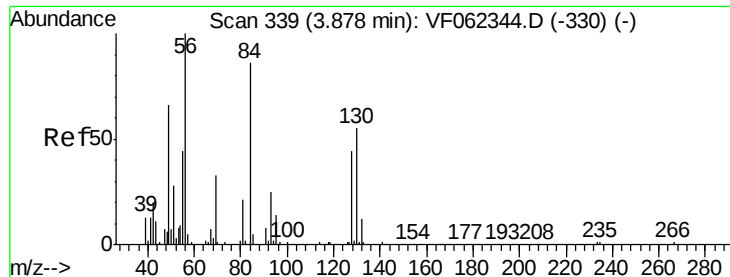
85 63.3 49.6 74.4



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0





#31

Cyclohexane

Concen: 21.986 ug/l

RT: 3.88 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

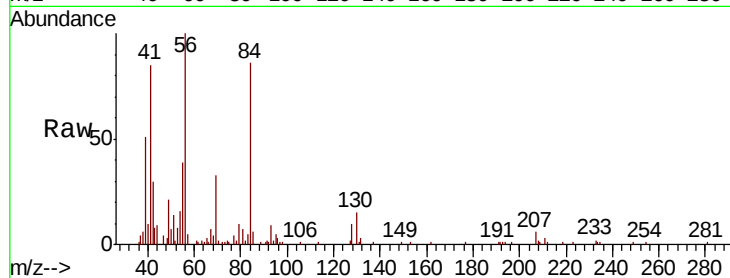
Tot Ion: 56 Resp: 70967

Ion Ratio Lower Upper

56 100

69 30.7 26.4 39.6

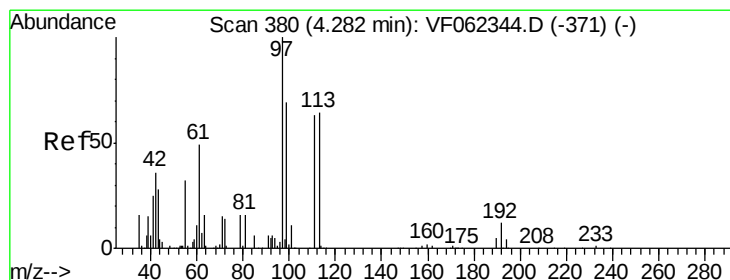
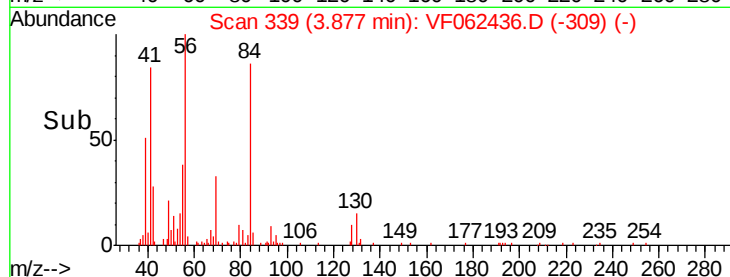
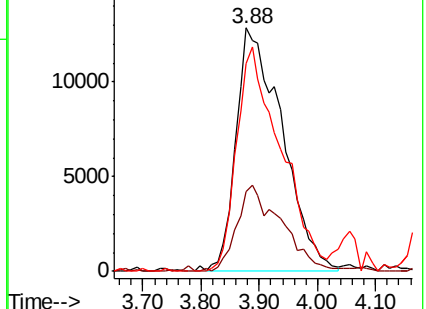
84 85.6 69.0 103.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 24.079 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

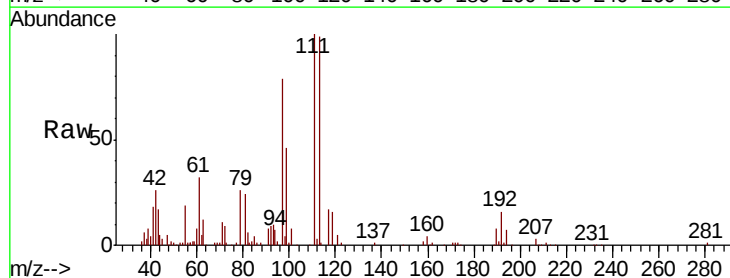
Tgt Ion: 97 Resp: 112746

Ion Ratio Lower Upper

97 100

99 61.7 52.6 78.8

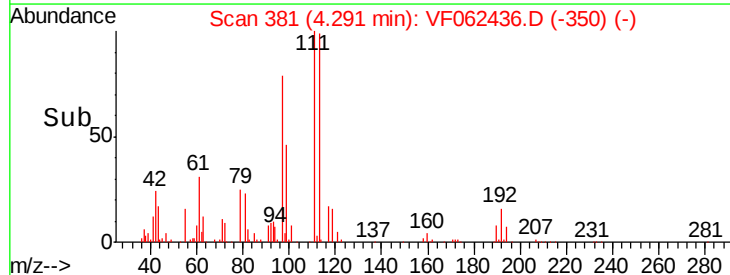
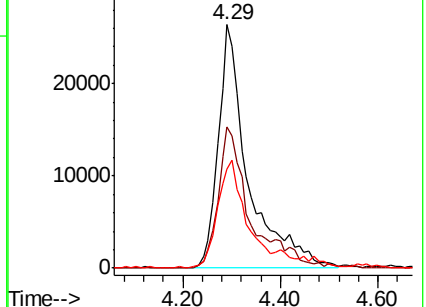
61 45.9 39.4 59.0

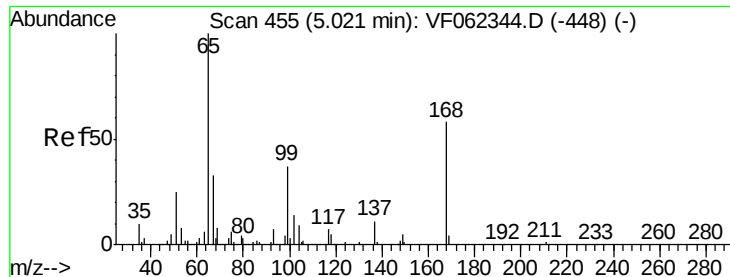


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

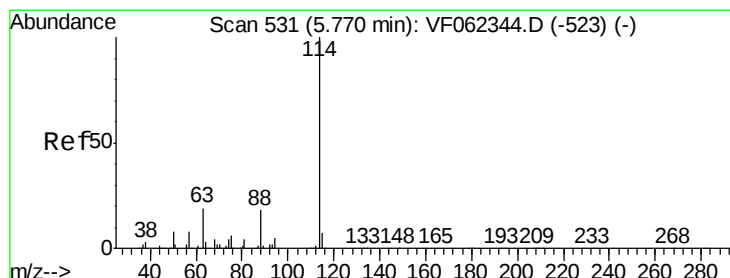
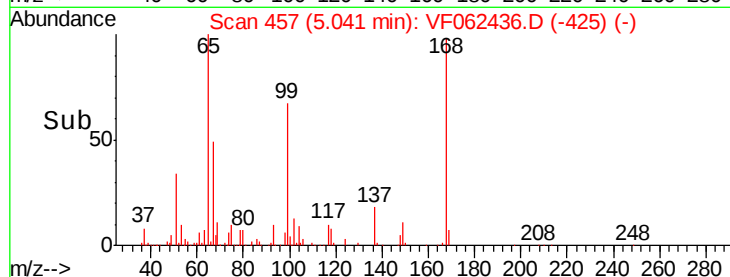
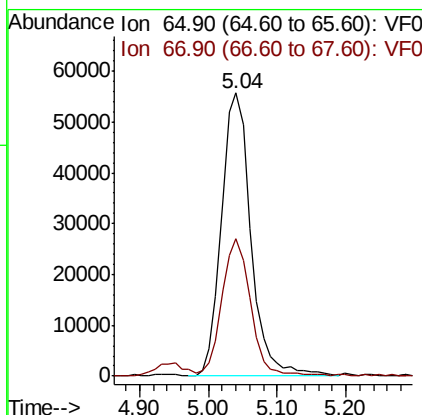
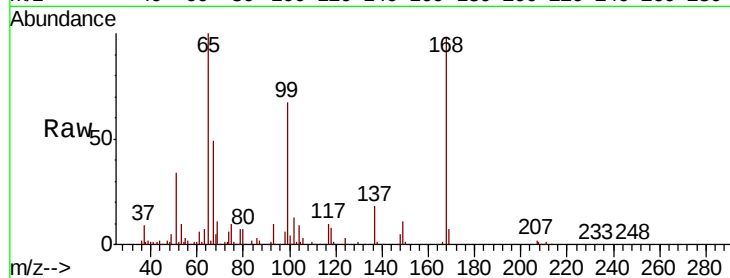




#33
 1,2-Dichloroethane-d4
 Concen: 55.180 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

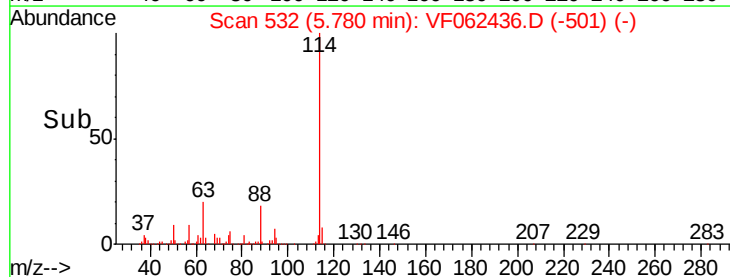
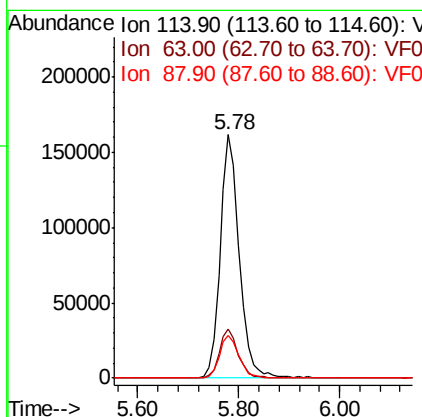
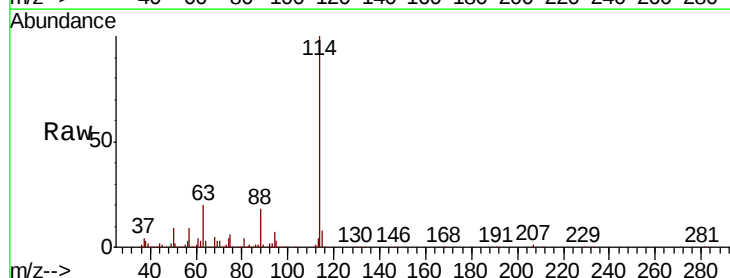
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS02

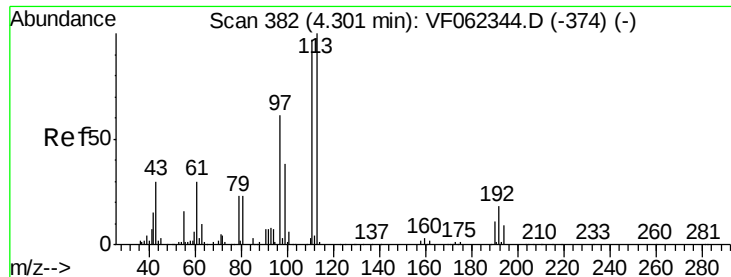
Tot Ion: 65 Resp: 164841
 Ion Ratio Lower Upper
 65 100
 67 47.1 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion:114 Resp: 424303
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 37.4
 88 17.7 0.0 36.4

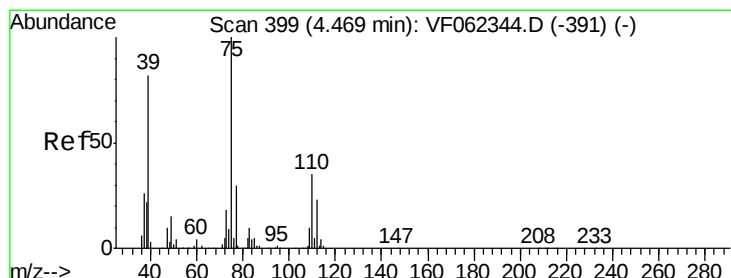
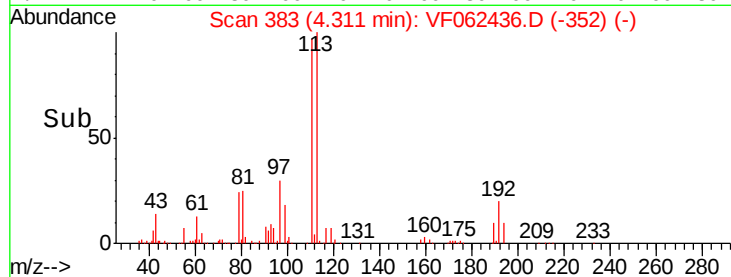
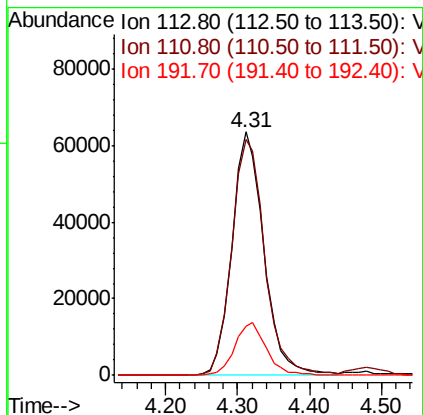
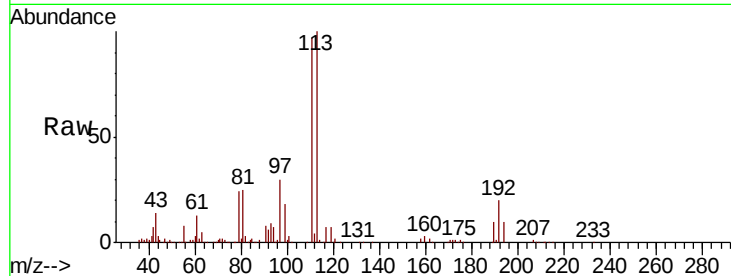




#35
 Dibromofluoromethane
 Concen: 58.022 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

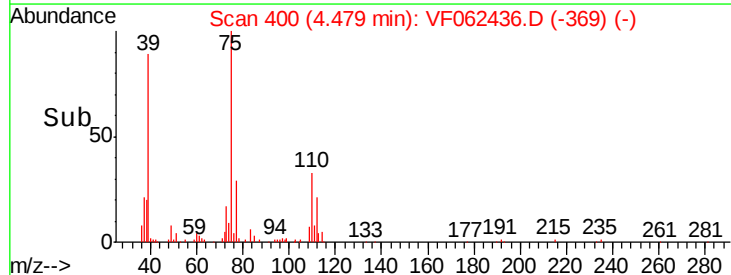
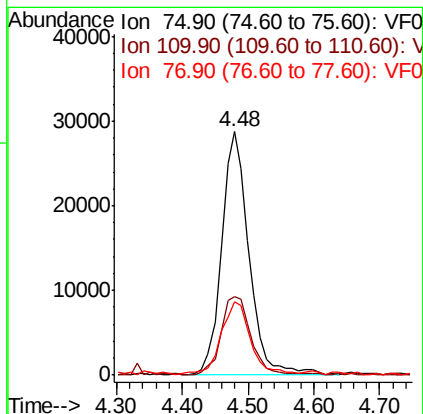
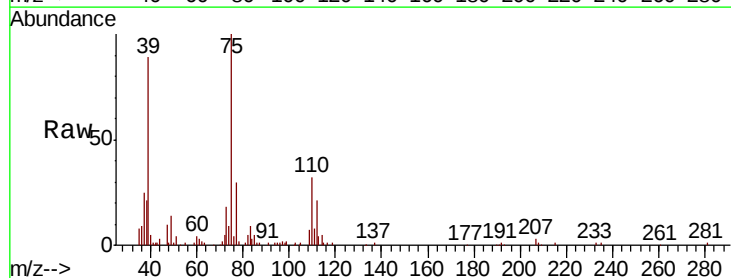
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS02

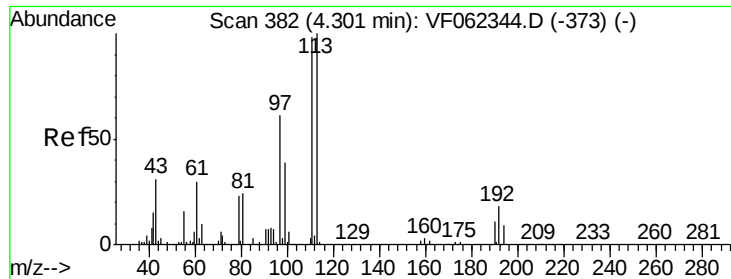
Tot Ion:113 Resp: 196134
 Ion Ratio Lower Upper
 113 100
 111 99.8 79.4 119.0
 192 21.3 16.0 24.0



#36
 1,1-Dichloropropene
 Concen: 22.923 ug/l
 RT: 4.48 min Scan# 400
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion: 75 Resp: 83551
 Ion Ratio Lower Upper
 75 100
 110 34.9 17.2 51.5
 77 33.0 25.2 37.8





#37

Ethyl Acetate

Concen: 18.745 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBSD02

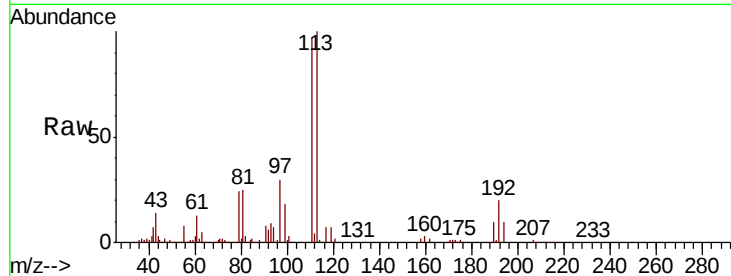
Tot Ion: 43 Resp: 31281

Ion Ratio Lower Upper

43 100

61 165.5 0.0 0.0#

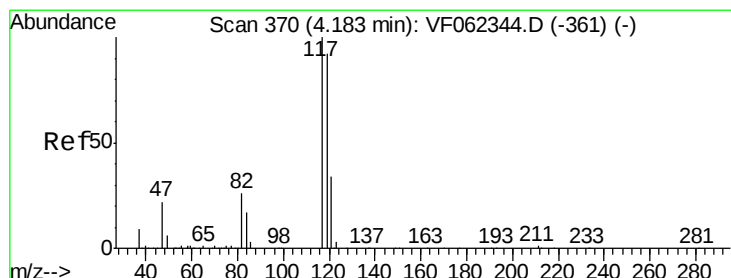
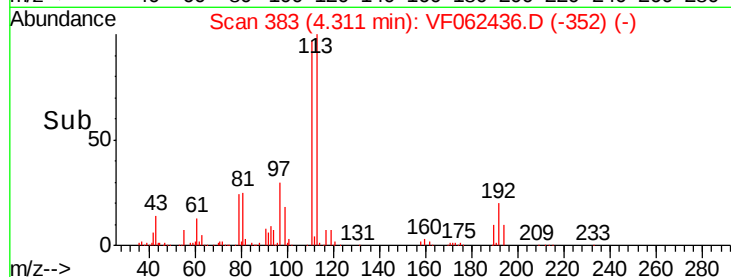
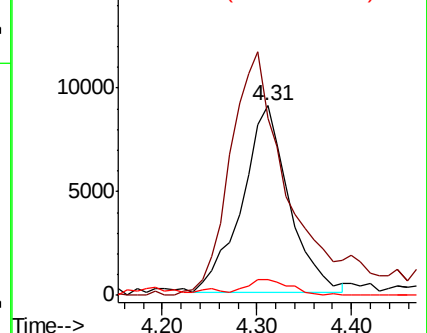
70 7.8 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 31.160 ug/l

RT: 4.19 min Scan# 371

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

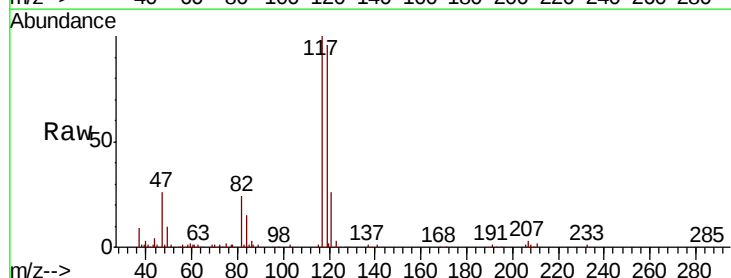
Tgt Ion: 117 Resp: 121764

Ion Ratio Lower Upper

117 100

119 95.7 73.4 110.2

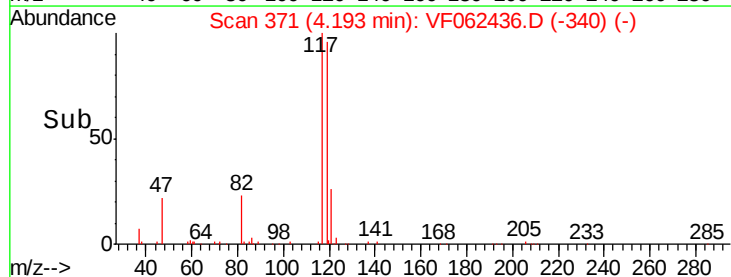
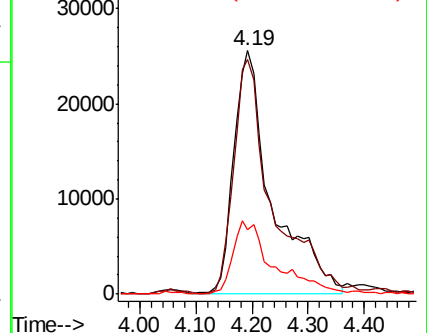
121 26.5 27.4 41.0#

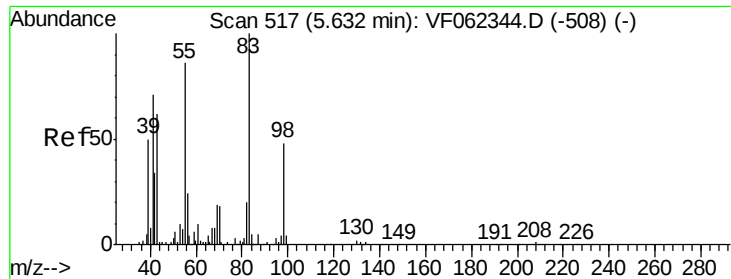


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

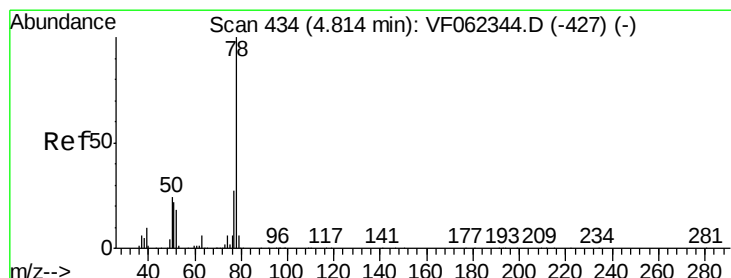
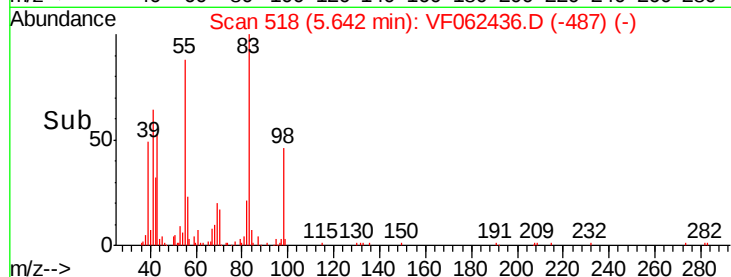
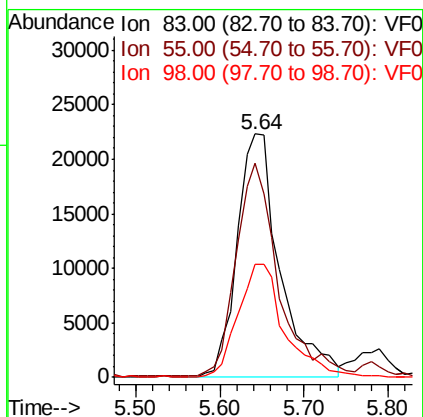
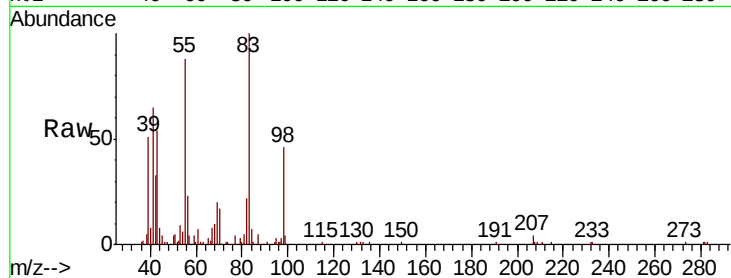




#39
Methylcyclohexane
Concen: 21.755 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

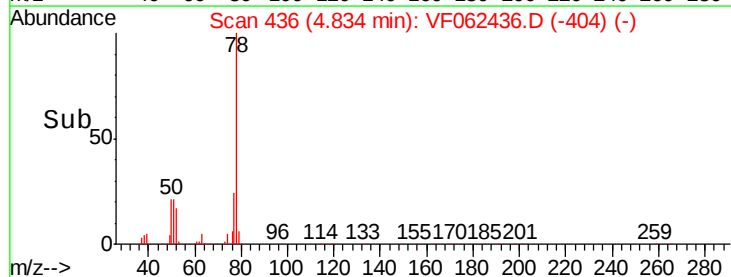
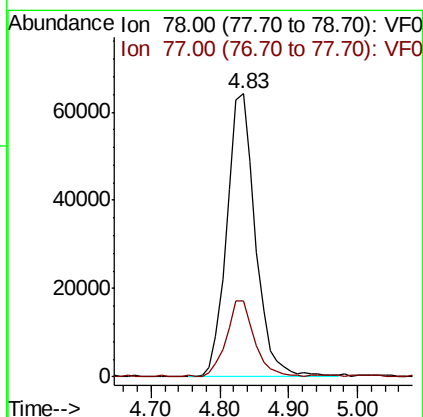
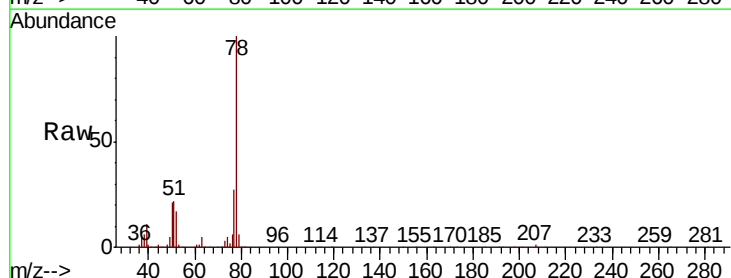
Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS02

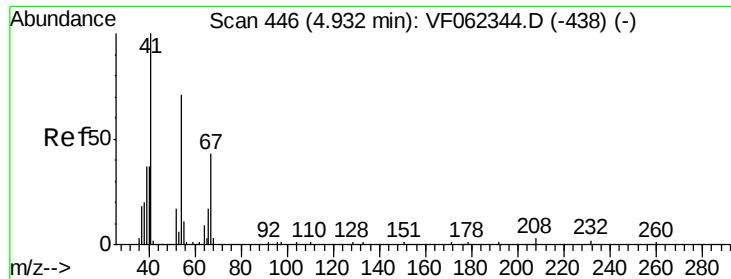
Tot Ion: 83 Resp: 79526
Ion Ratio Lower Upper
83 100
55 87.2 69.0 103.6
98 46.2 38.6 58.0



#40
Benzene
Concen: 23.036 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.02 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Tgt Ion: 78 Resp: 184892
Ion Ratio Lower Upper
78 100
77 26.3 21.6 32.4





#41

Methacrylonitrile

Concen: 18.879 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

Tot Ion: 41 Resp: 16500

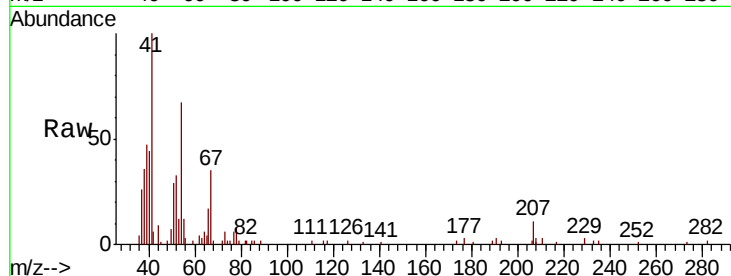
Ion Ratio Lower Upper

41 100

39 77.2 54.3 81.5

67 48.0 37.8 56.8

52 0.0 58.2 87.4#

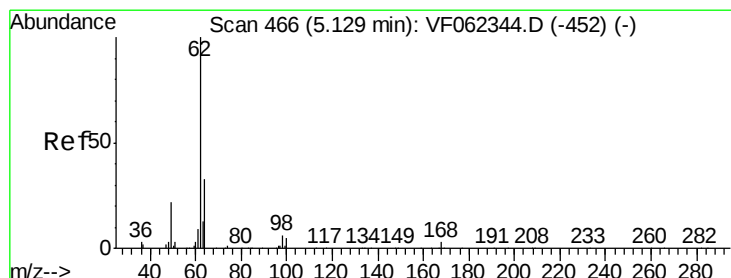
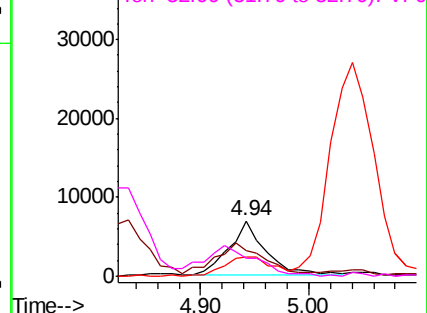
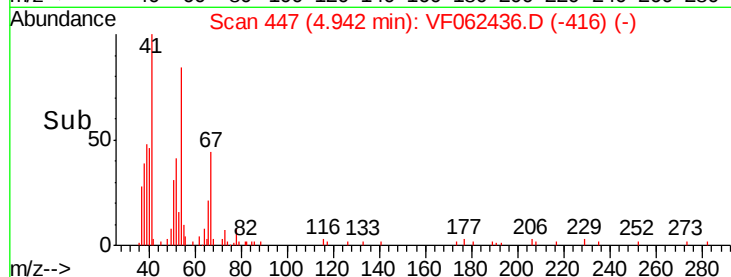


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 20.741 ug/l

RT: 5.13 min Scan# 466

Delta R.T. -0.00 min

Lab File: VF062436.D

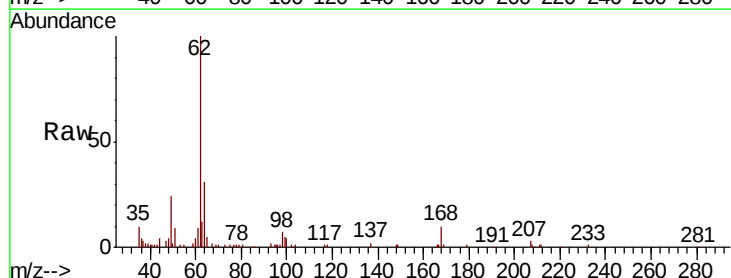
Acq: 10 May 2019 23:30

Tgt Ion: 62 Resp: 69627

Ion Ratio Lower Upper

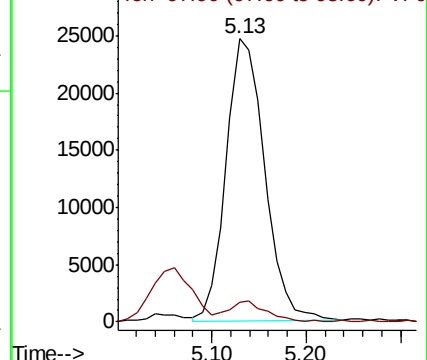
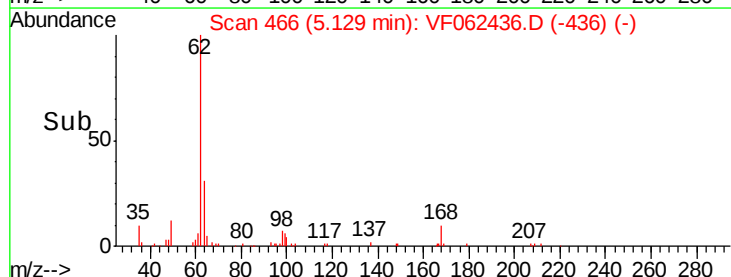
62 100

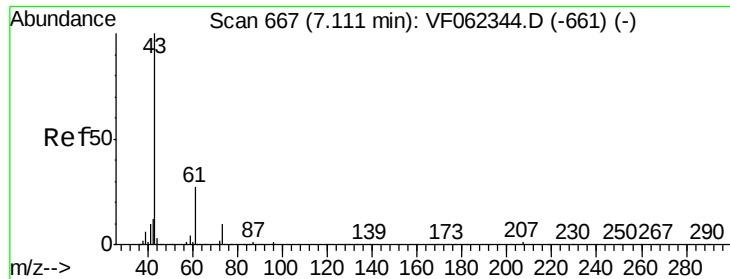
98 7.3 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



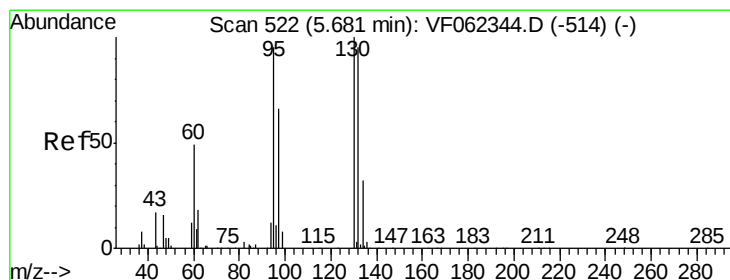
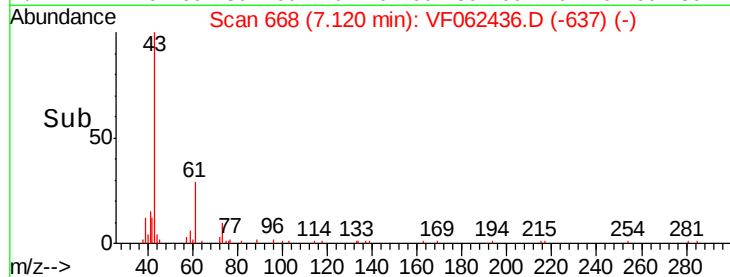
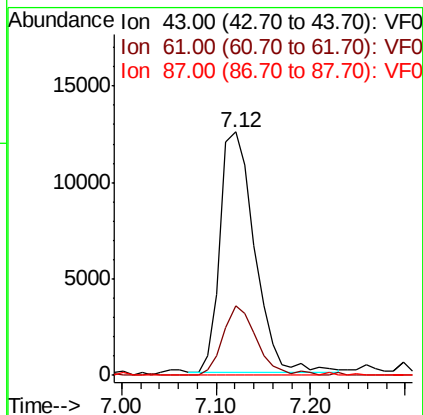
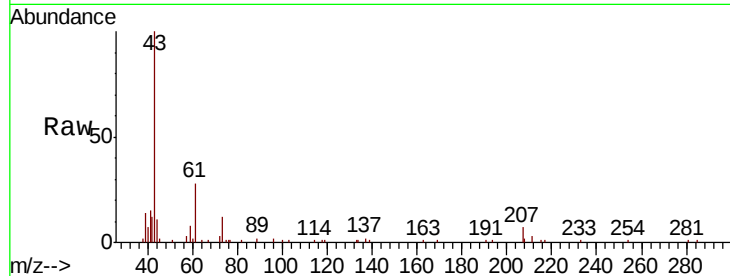


#43

Isopropyl Acetate
 Concen: 19.012 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS02

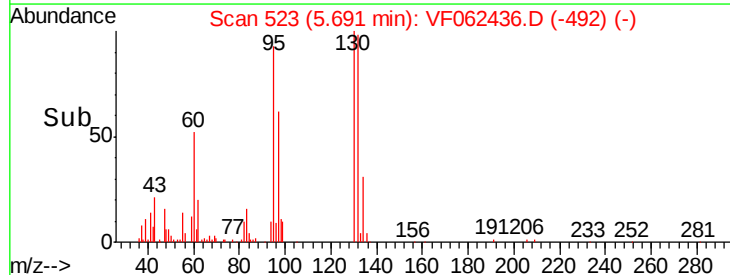
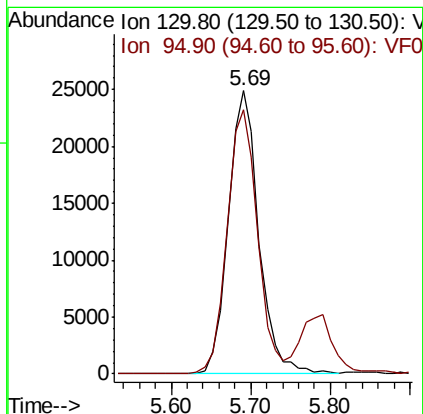
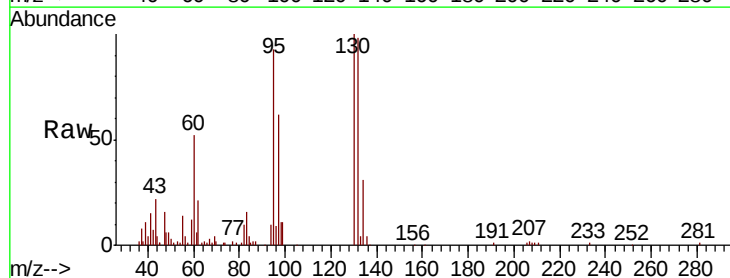
Tot Ion: 43 Resp: 31519
 Ion Ratio Lower Upper
 43 100
 61 28.0 22.8 34.2
 87 0.0 0.6 1.0#



#44

Trichloroethene
 Concen: 22.550 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion: 130 Resp: 66488
 Ion Ratio Lower Upper
 130 100
 95 93.4 0.0 189.0





#45

1,2-Dichloropropane

Concen: 21.868 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

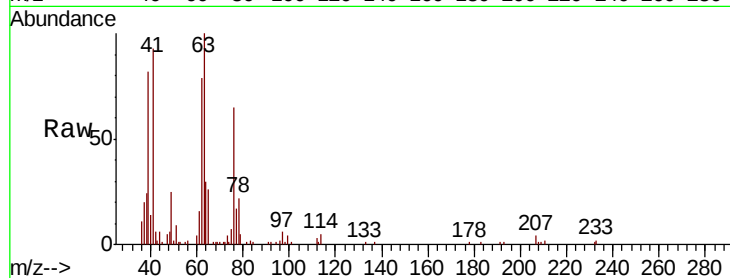
VF0510SBS02

Tot Ion: 63 Resp: 39756

Ion Ratio Lower Upper

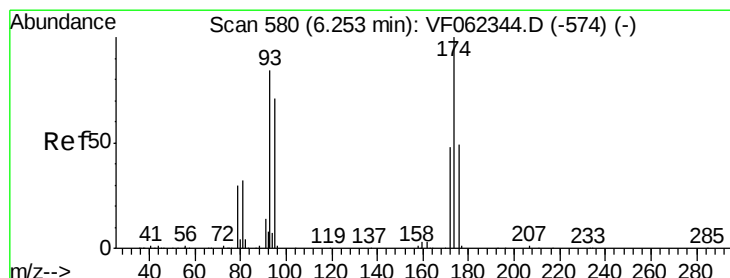
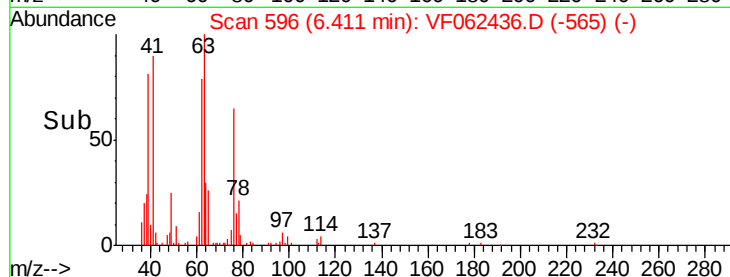
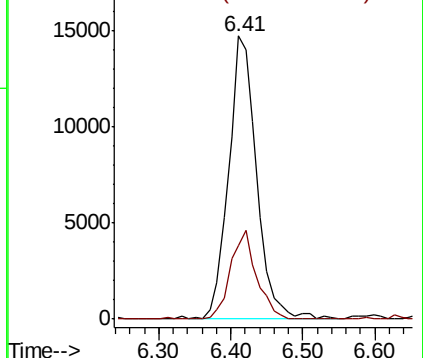
63 100

65 26.1 25.6 38.4



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0



#46

Dibromomethane

Concen: 21.733 ug/l

RT: 6.27 min Scan# 582

Delta R.T. 0.02 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

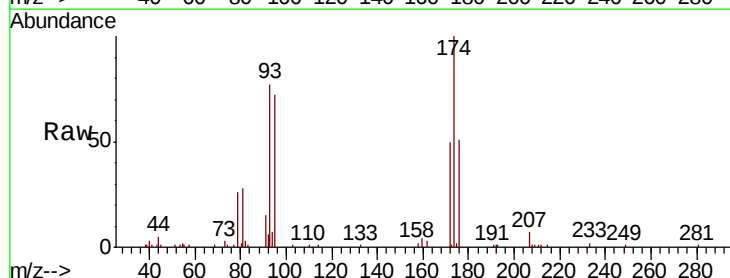
Tgt Ion: 93 Resp: 32759

Ion Ratio Lower Upper

93 100

95 86.1 68.4 102.6

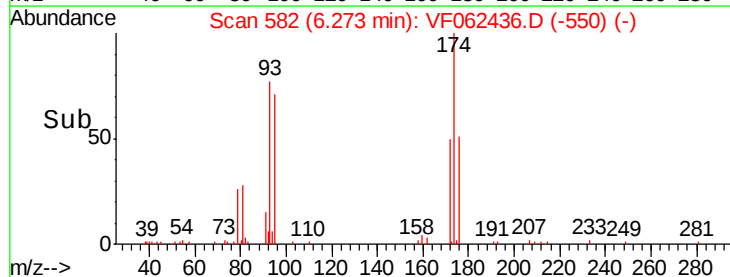
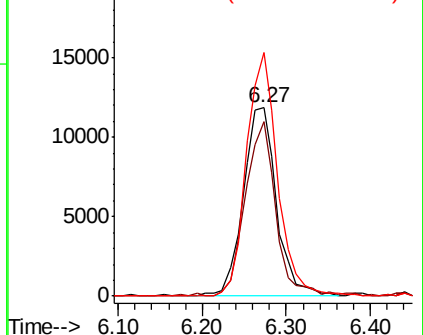
174 121.2 99.6 149.4

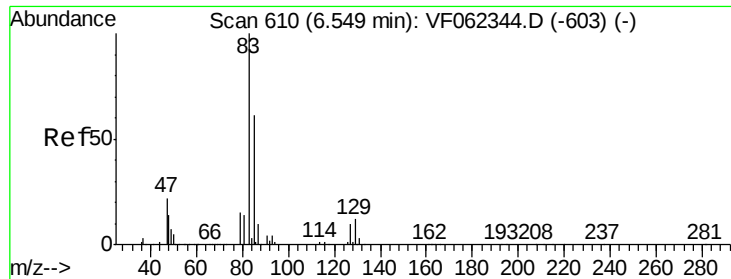


Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 21.902 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

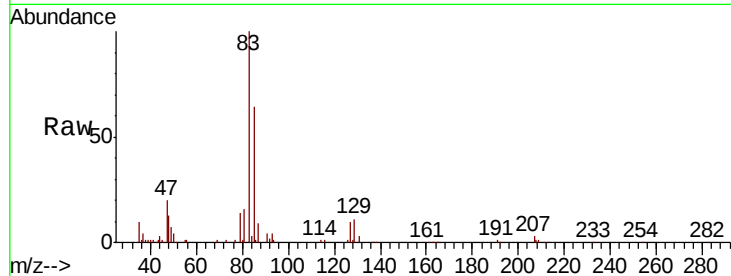
Tot Ion: 83 Resp: 82540

Ion Ratio Lower Upper

83 100

85 63.6 49.1 73.7

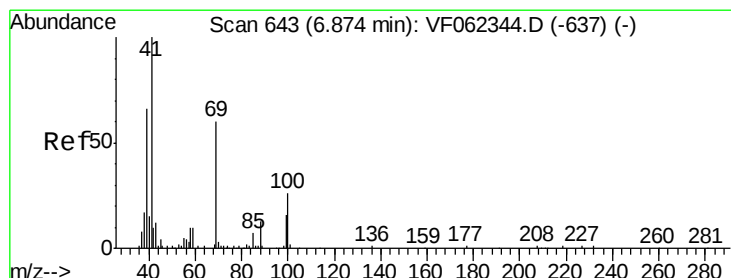
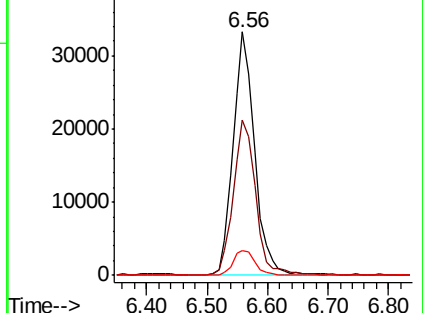
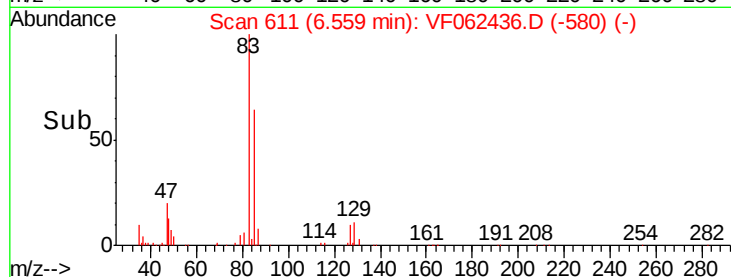
127 10.0 7.8 11.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 21.374 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

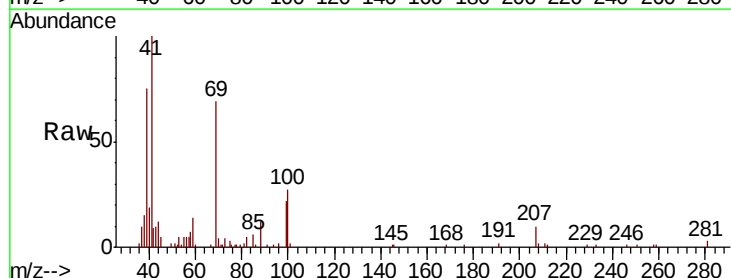
Tgt Ion: 41 Resp: 25042

Ion Ratio Lower Upper

41 100

69 59.5 48.6 72.8

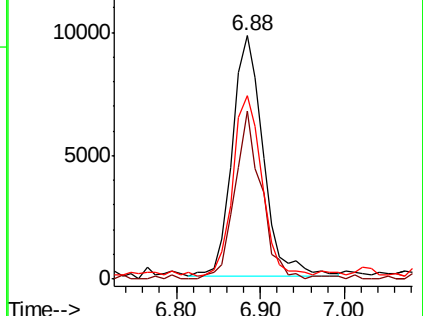
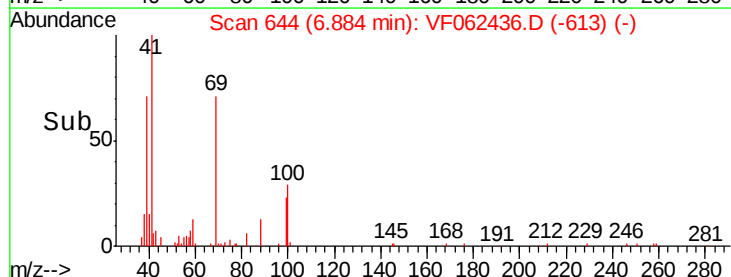
39 70.6 56.1 84.1

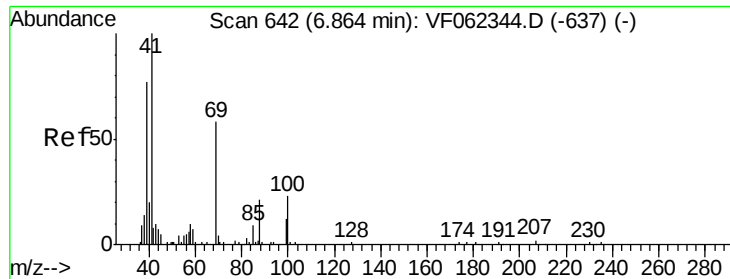


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

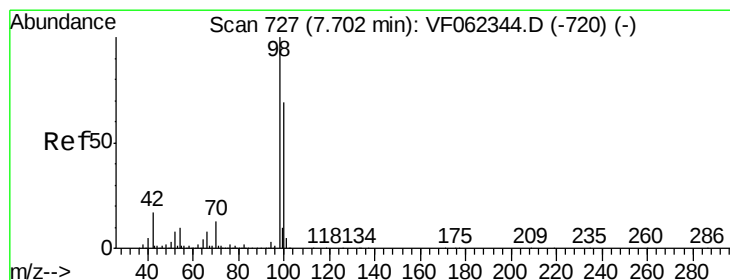
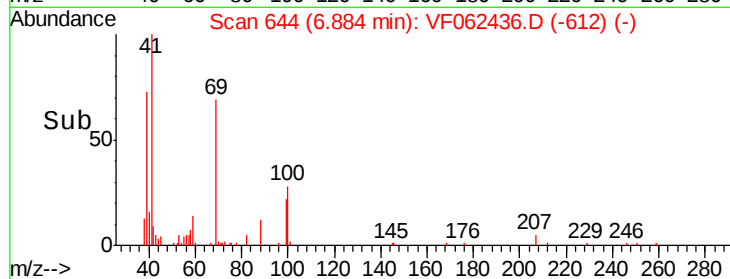
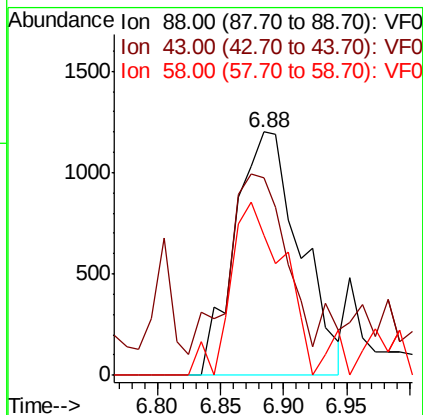
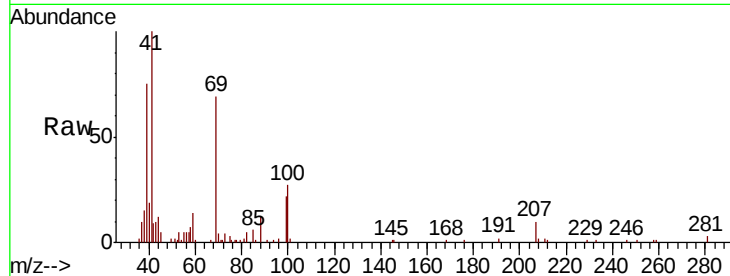




#49
1,4-Dioxane
Concen: 350.860 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.02 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

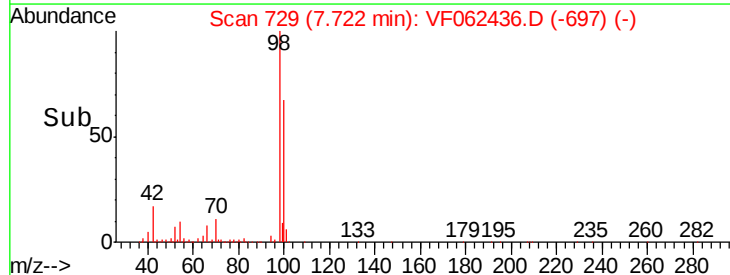
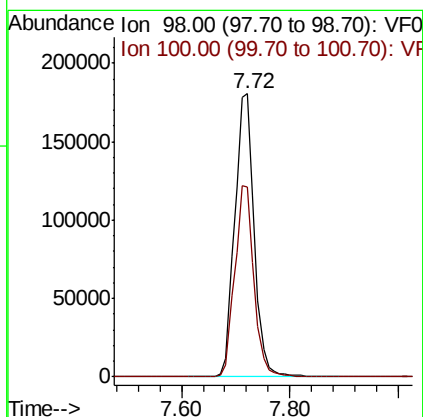
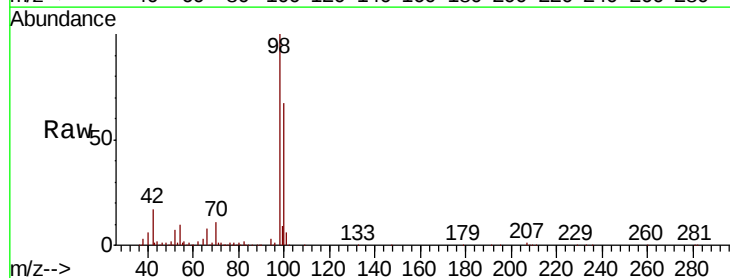
Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS02

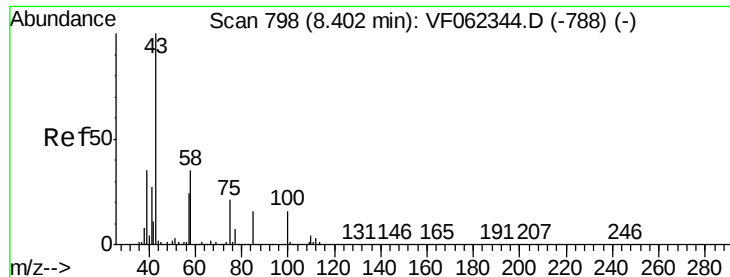
Tot Ion: 88 Resp: 4330
Ion Ratio Lower Upper
88 100
43 62.5 55.6 83.4
58 57.3 52.8 79.2



#50
Toluene-d8
Concen: 55.804 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Tgt Ion: 98 Resp: 456622
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 100.441 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

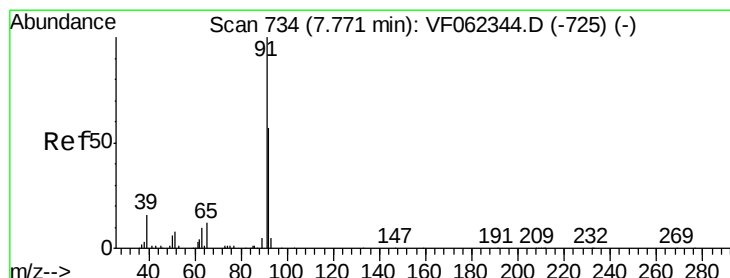
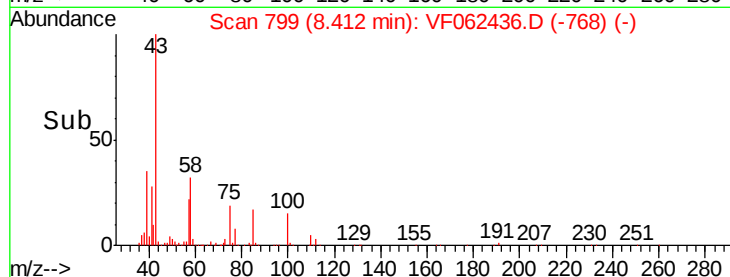
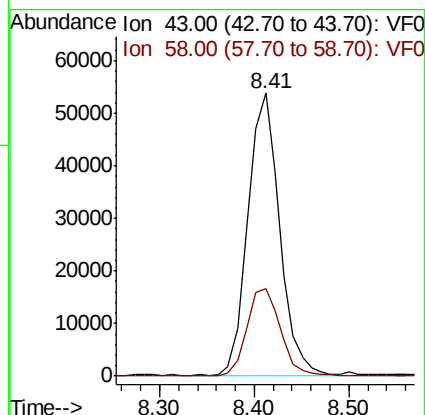
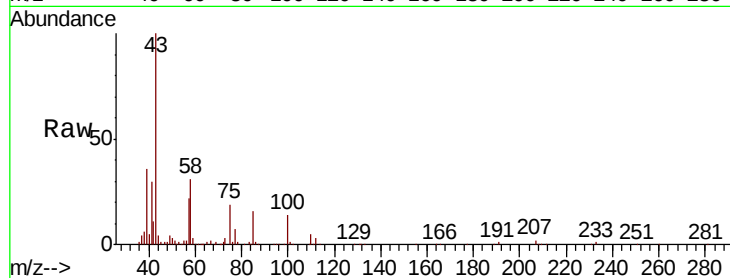
VF0510SBSD02

Tot Ion: 43 Resp: 126180

Ion Ratio Lower Upper

43 100

58 32.9 27.8 41.6



#52

Toluene

Concen: 20.716 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF062436.D

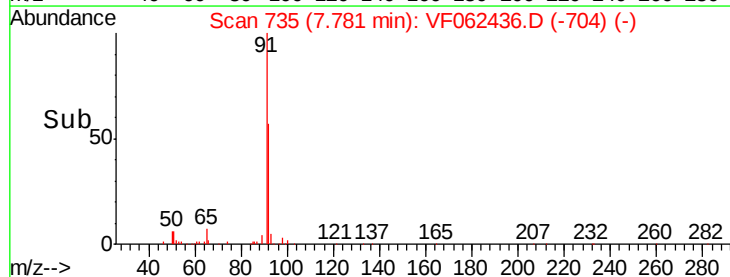
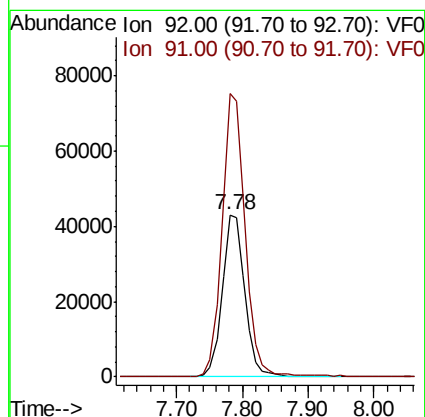
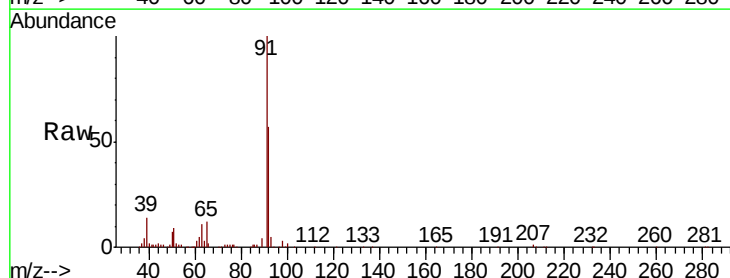
Acq: 10 May 2019 23:30

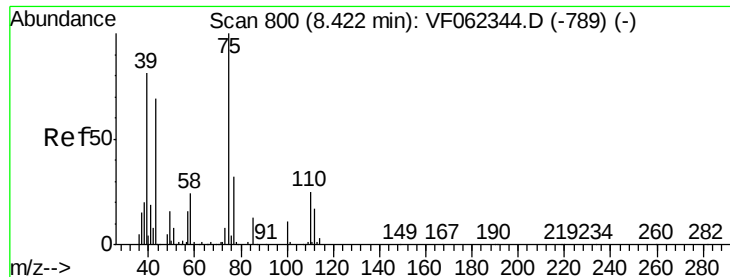
Tgt Ion: 92 Resp: 102574

Ion Ratio Lower Upper

92 100

91 178.4 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 20.058 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

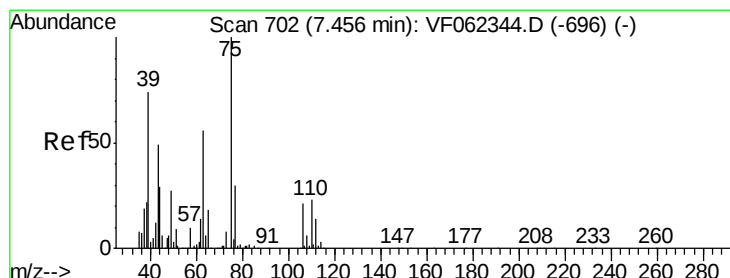
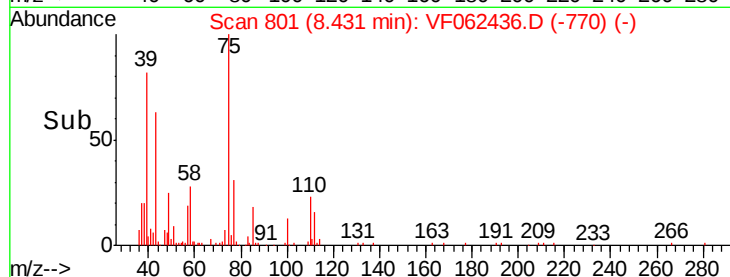
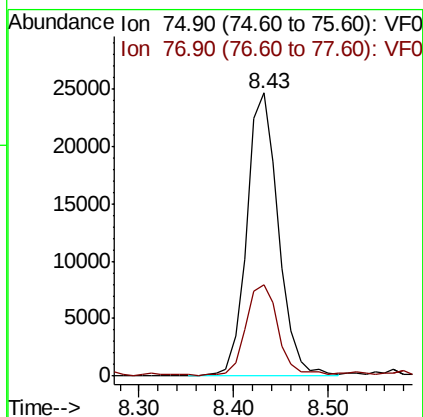
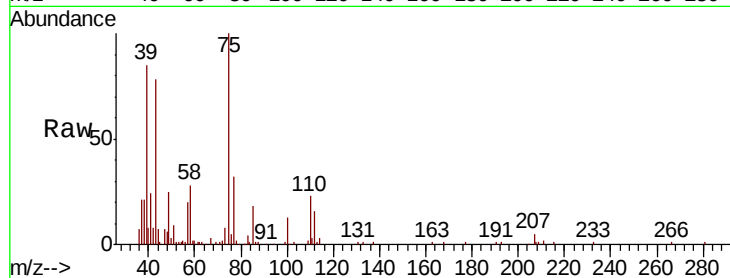
VF0510SBSD02

Tot Ion: 75 Resp: 57171

Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 21.009 ug/l

RT: 7.47 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

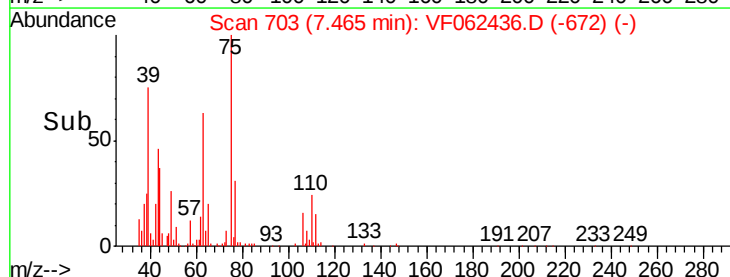
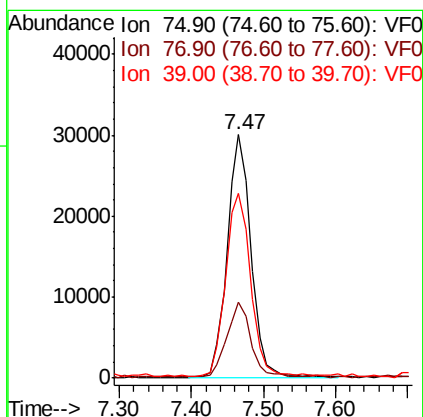
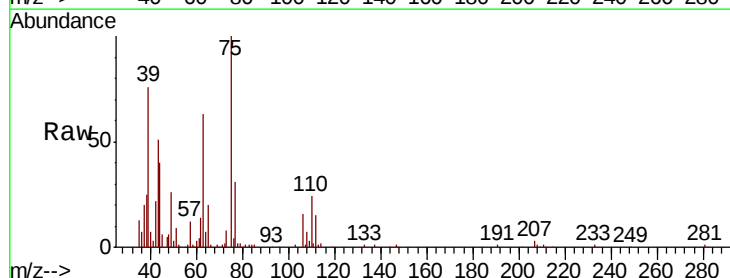
Tgt Ion: 75 Resp: 69692

Ion Ratio Lower Upper

75 100

77 30.8 24.0 36.0

39 75.4 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 21.100 ug/l

RT: 8.64 min Scan# 822

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

Tot Ion: 97 Resp: 33166

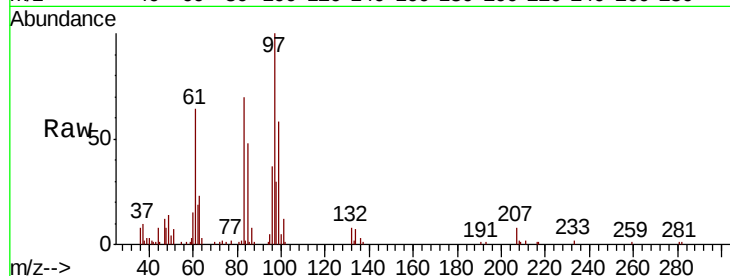
Ion Ratio Lower Upper

97 100

83 70.5 68.5 102.7

85 48.0 45.4 68.2

99 57.5 52.7 79.1

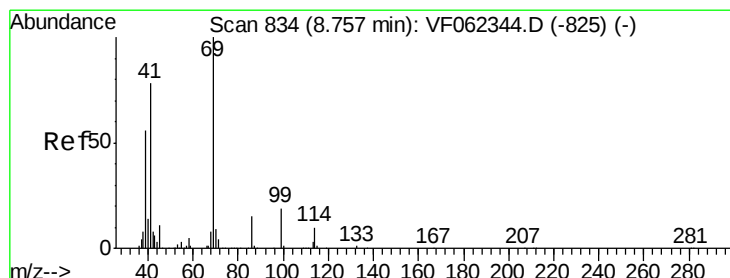
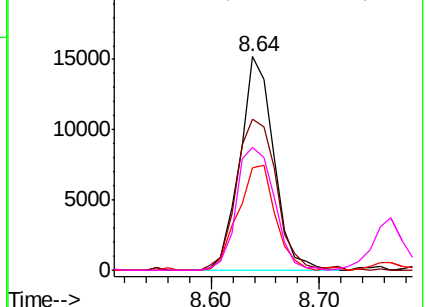
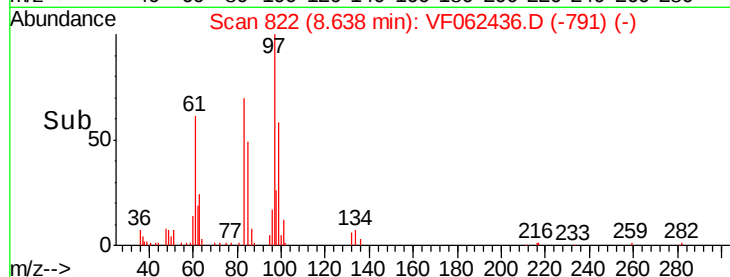


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 19.442 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

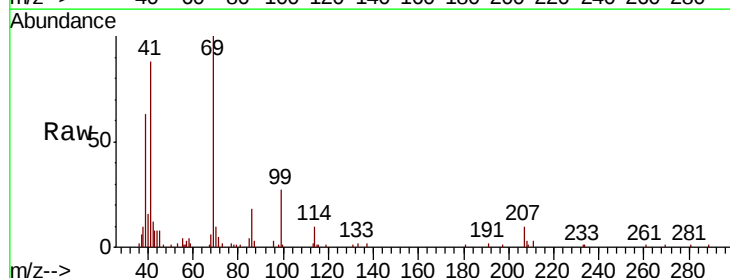
Tgt Ion: 69 Resp: 32259

Ion Ratio Lower Upper

69 100

41 87.8 66.3 99.5

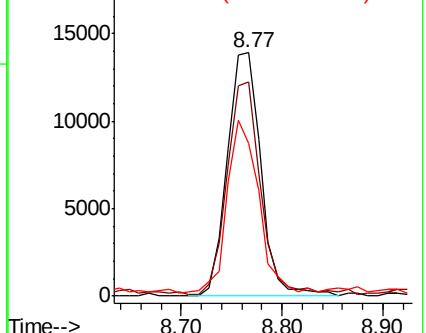
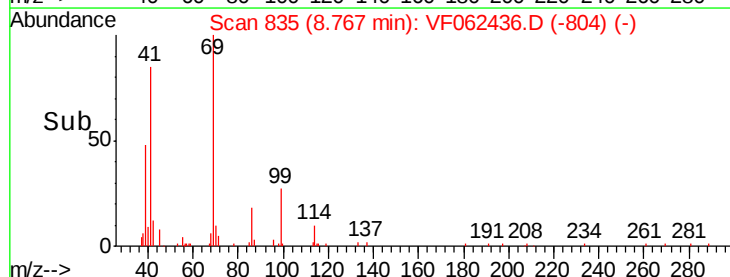
39 65.2 50.1 75.1

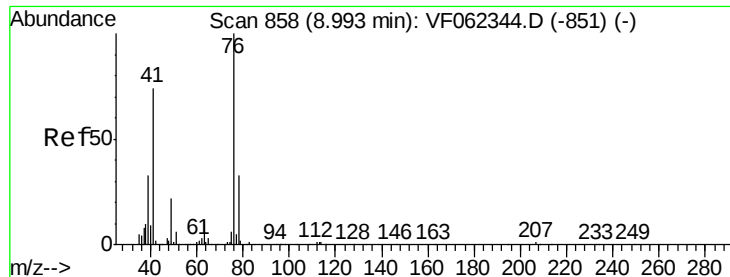


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.610 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

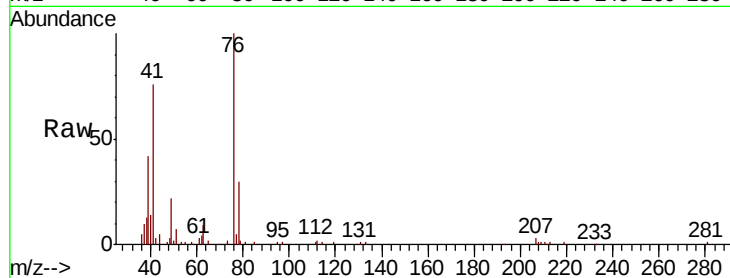
VF0510SBS02

Tot Ion: 76 Resp: 51310

Ion Ratio Lower Upper

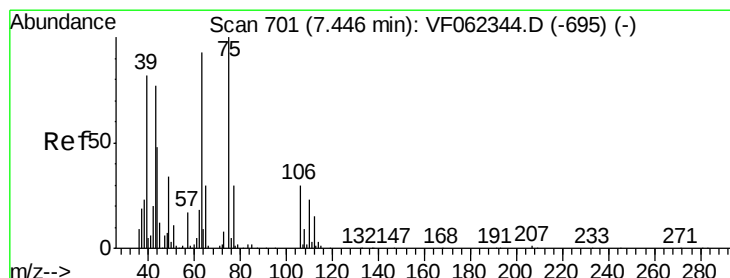
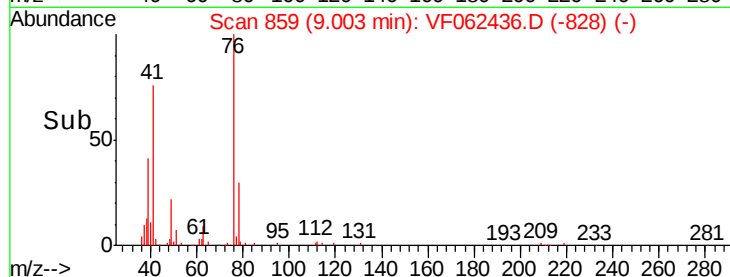
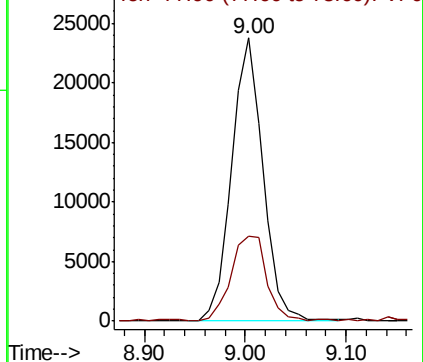
76 100

78 34.7 26.4 39.6



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 103.669 ug/l

RT: 7.46 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF062436.D

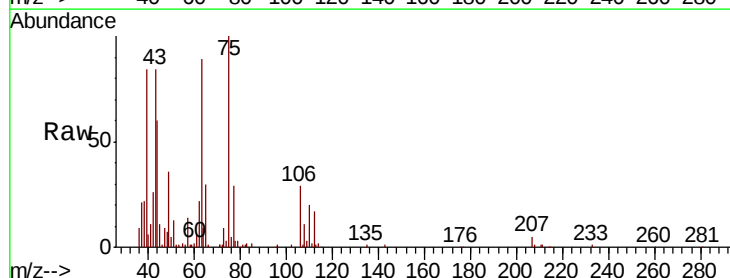
Acq: 10 May 2019 23:30

Tgt Ion: 63 Resp: 51715

Ion Ratio Lower Upper

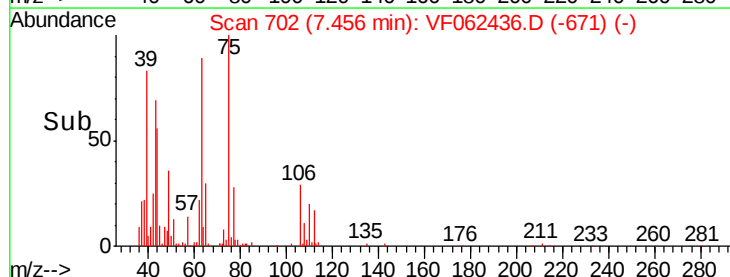
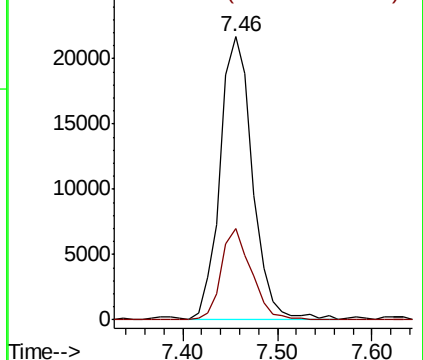
63 100

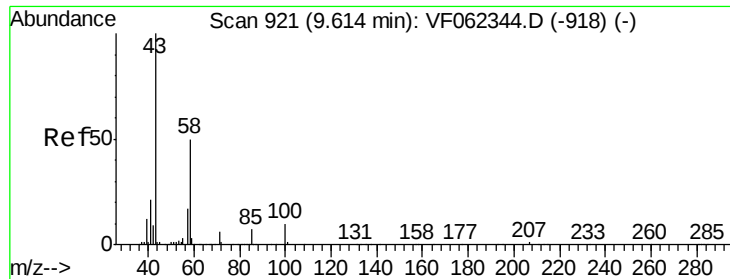
106 29.8 25.8 38.8



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

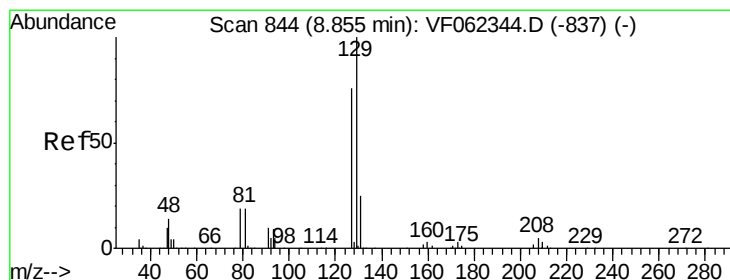
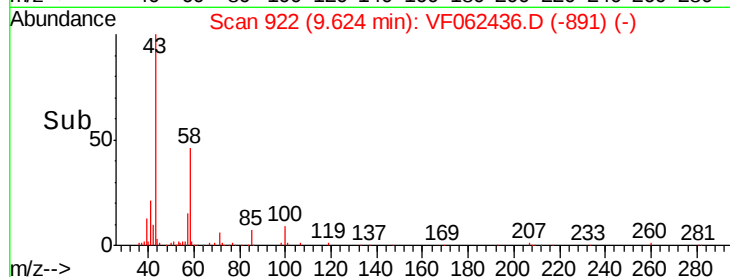
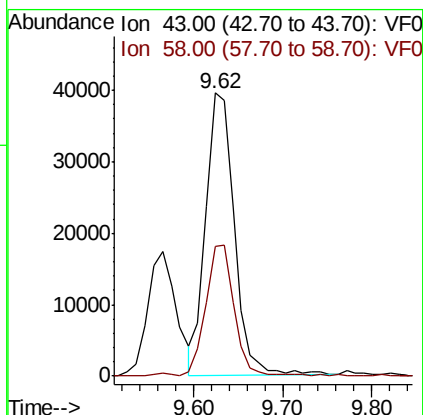
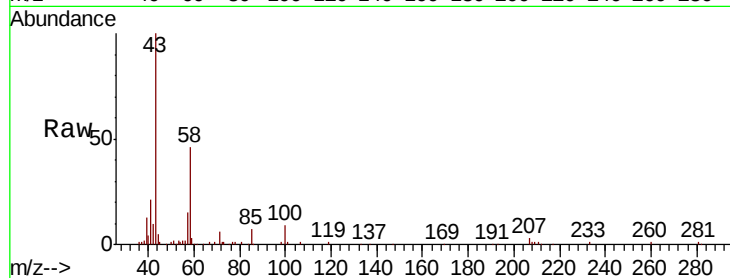




#59
2-Hexanone
Concen: 101.907 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

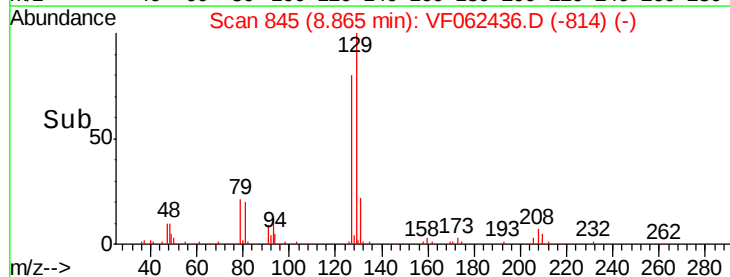
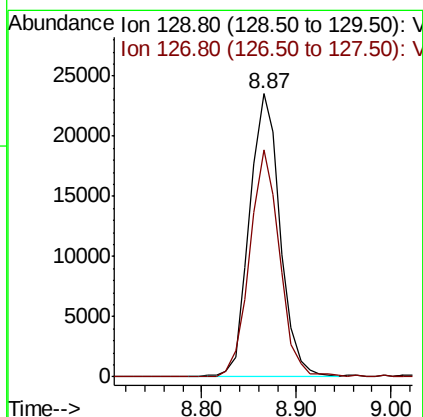
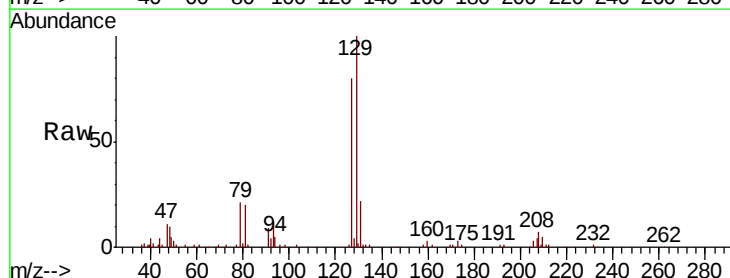
Instrument :
MSVOA_F
ClientSampleId :
VF0510SBSD02

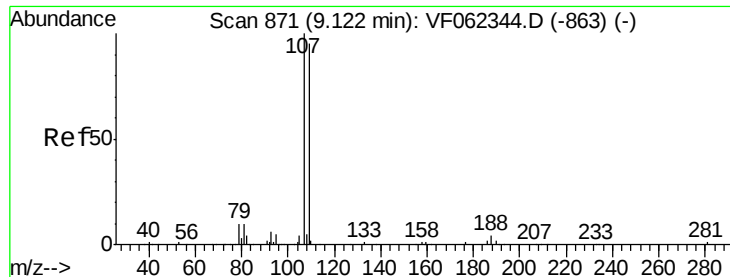
Tot Ion: 43 Resp: 88540
Ion Ratio Lower Upper
43 100
58 45.9 24.3 73.0



#60
Dibromochloromethane
Concen: 20.620 ug/l
RT: 8.87 min Scan# 845
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Tgt Ion: 129 Resp: 53011
Ion Ratio Lower Upper
129 100
127 78.1 38.5 115.3





#61

1,2-Dibromoethane

Concen: 20.514 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.02 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

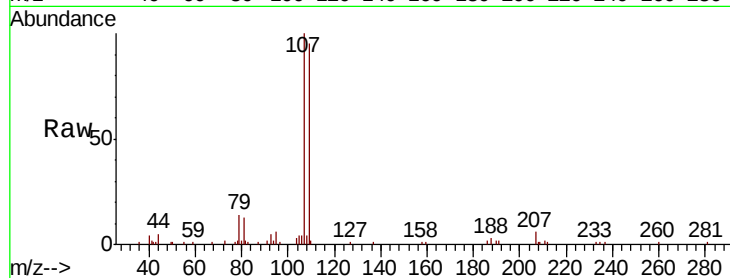
VF0510SBS02

Tot Ion:107 Resp: 37899

Ion Ratio Lower Upper

107 100

109 98.9 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.14

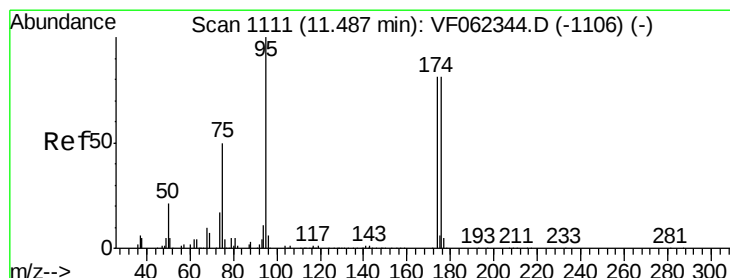
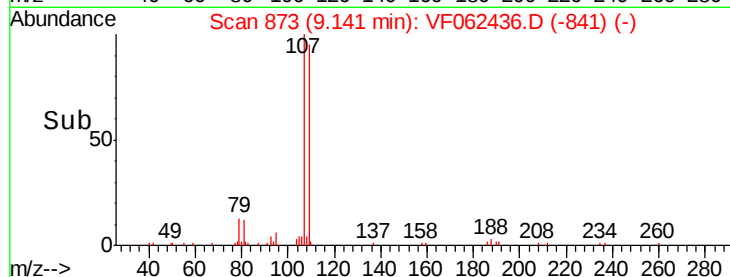
15000

10000

5000

0

Time--> 9.00 9.10 9.20



#62

4-Bromofluorobenzene

Concen: 53.128 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

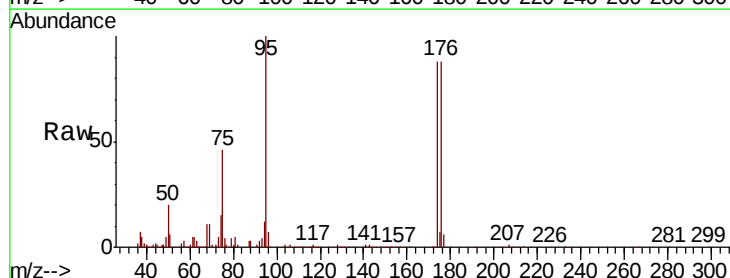
Tgt Ion: 95 Resp: 196132

Ion Ratio Lower Upper

95 100

174 97.2 0.0 191.8

176 96.8 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

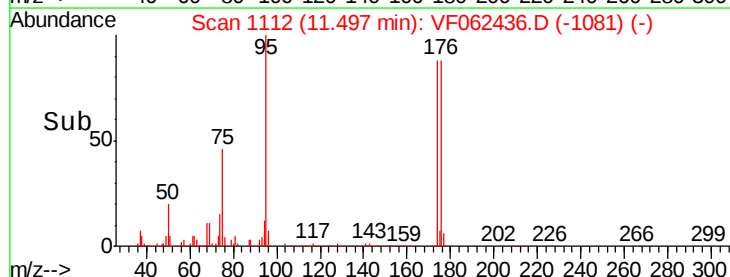
150000

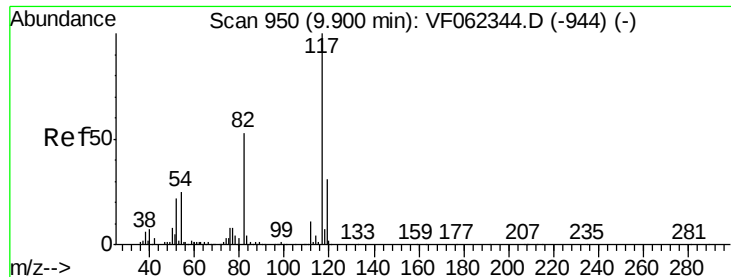
100000

50000

0

Time--> 11.40 11.50 11.60 11.70

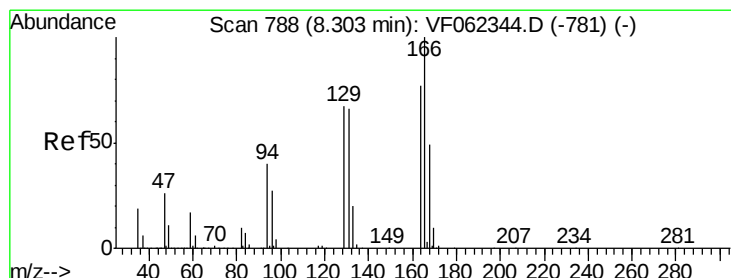
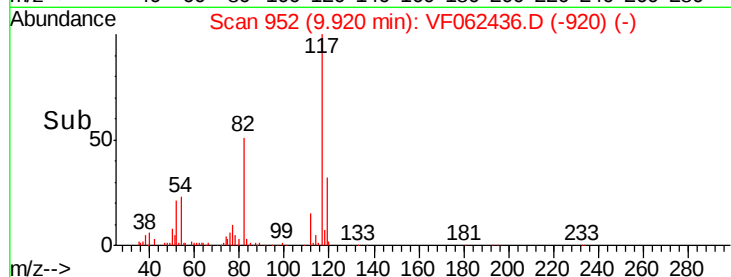
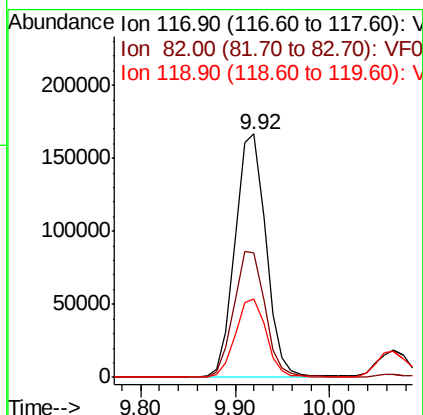
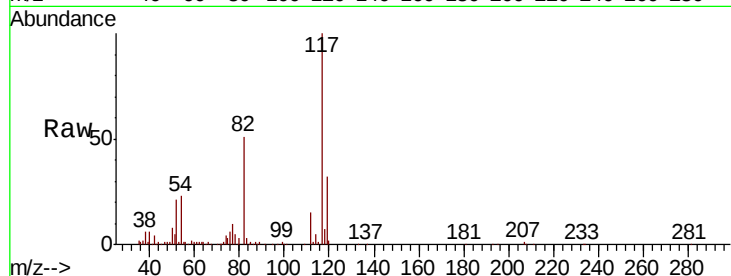




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

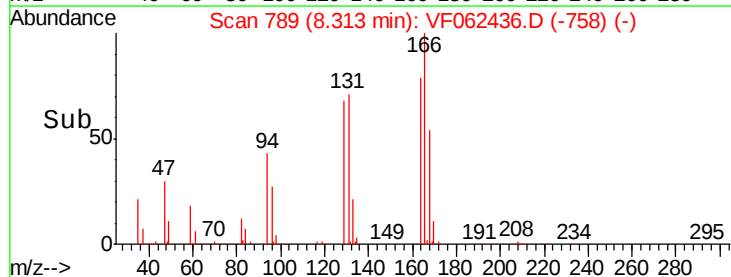
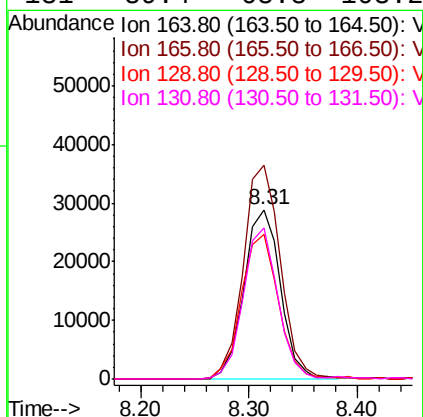
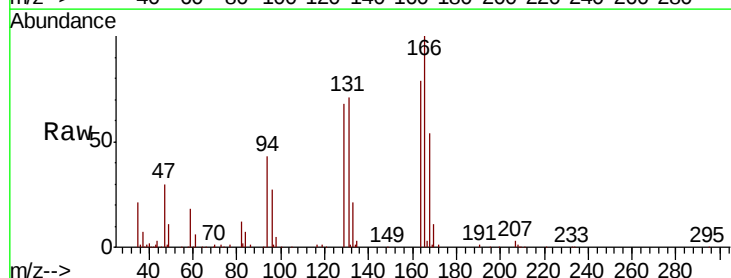
Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS02

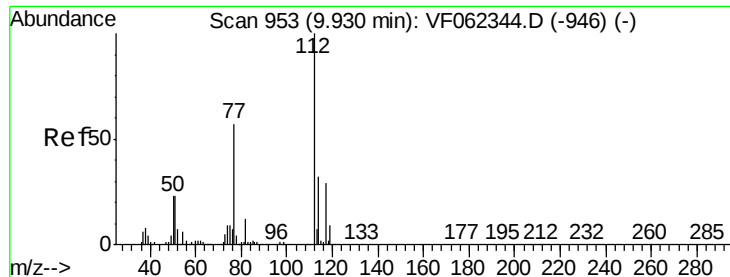
Tot Ion:117 Resp: 379054
Ion Ratio Lower Upper
117 100
82 51.3 42.2 63.2
119 32.3 25.0 37.4



#64
Tetrachloroethene
Concen: 22.067 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Tgt Ion:164 Resp: 67906
Ion Ratio Lower Upper
164 100
166 126.3 104.2 156.4
129 85.3 69.6 104.4
131 89.4 68.8 103.2





#65

Chlorobenzene

Concen: 21.250 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

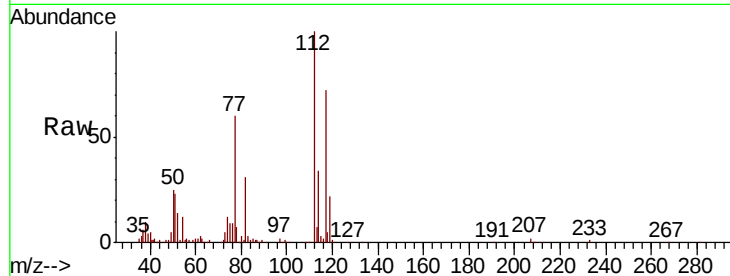
VF0510SBSD02

Tot Ion:112 Resp: 133274

Ion Ratio Lower Upper

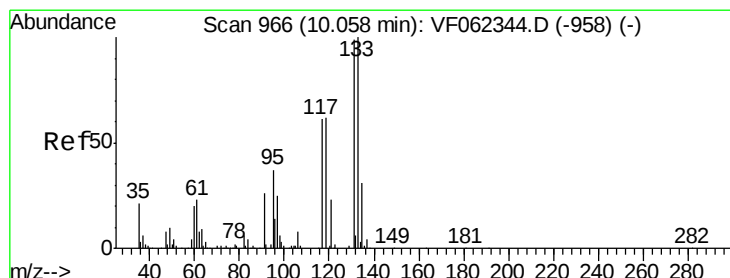
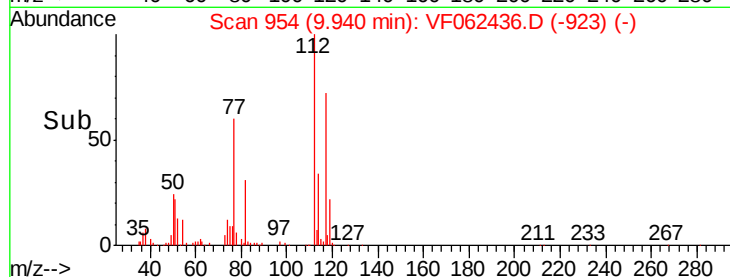
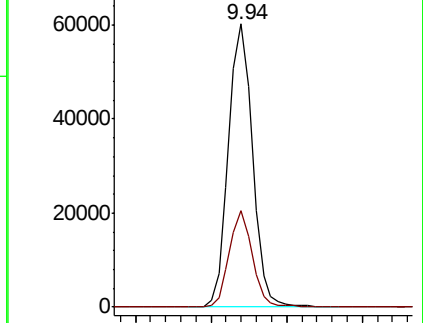
112 100

114 33.9 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.439 ug/l

RT: 10.07 min Scan# 967

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

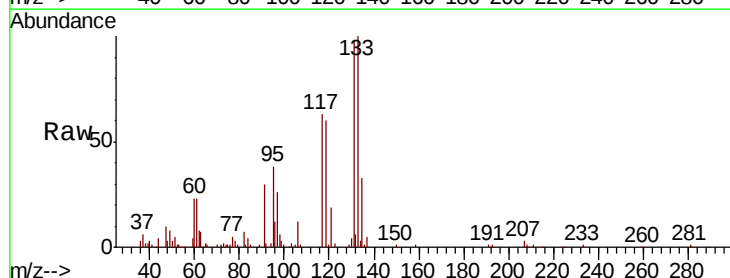
Tgt Ion:131 Resp: 64667

Ion Ratio Lower Upper

131 100

133 100.6 50.2 150.7

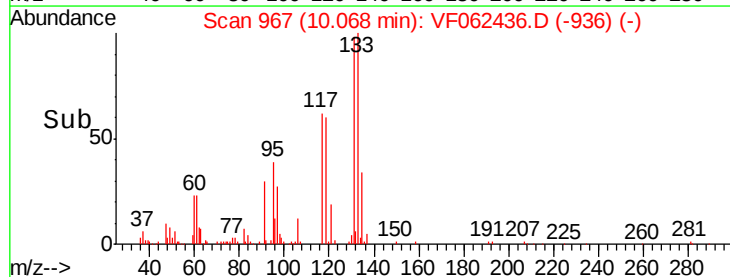
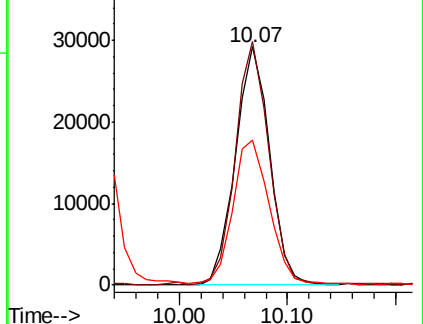
119 65.8 31.6 95.0

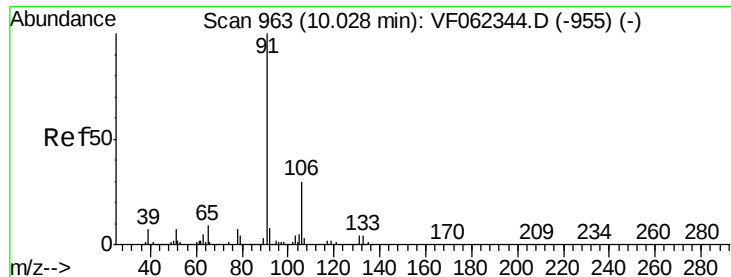


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 21.569 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

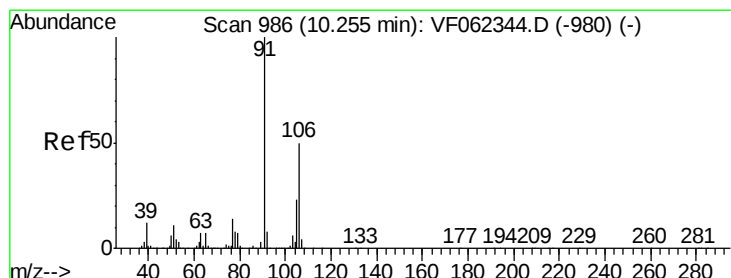
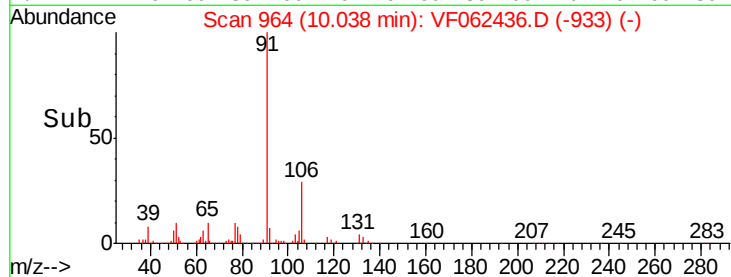
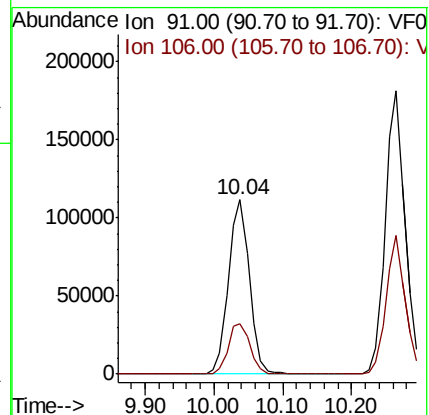
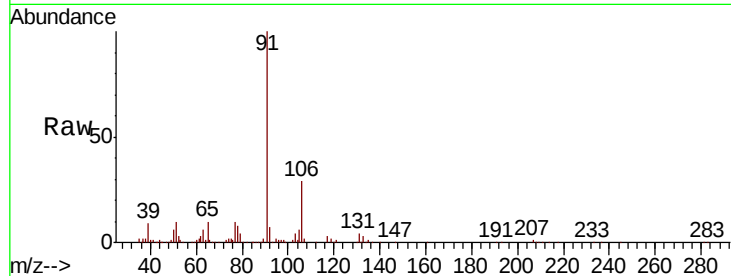
VF0510SBSD02

Tot Ion: 91 Resp: 236880

Ion Ratio Lower Upper

91 100

106 28.7 24.1 36.1



#68

m/p-Xylenes

Concen: 43.001 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VF062436.D

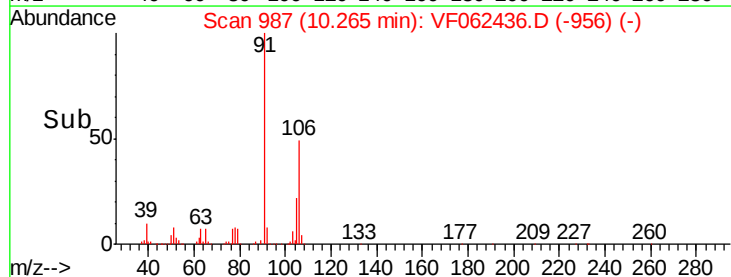
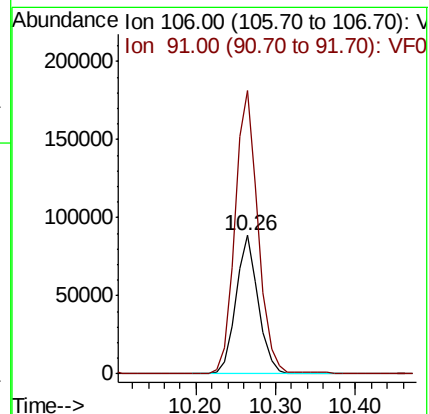
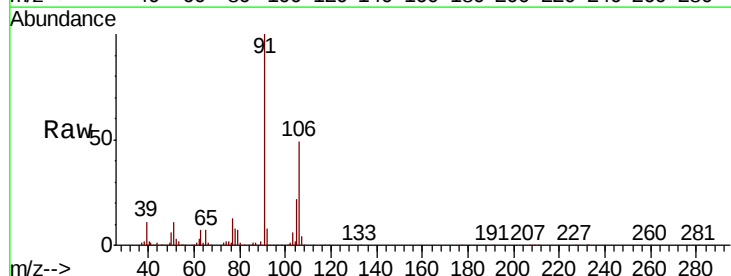
Acq: 10 May 2019 23:30

Tgt Ion: 106 Resp: 174242

Ion Ratio Lower Upper

106 100

91 209.8 167.4 251.2

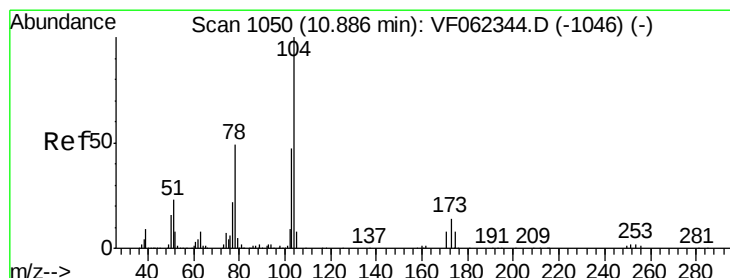
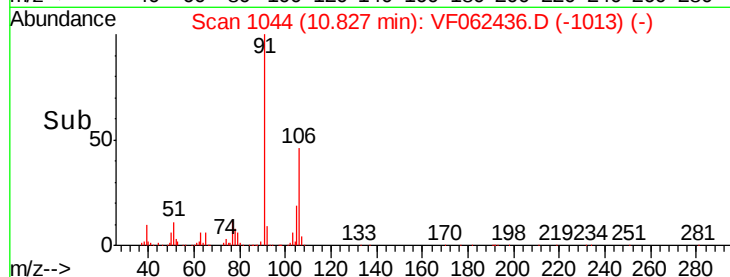
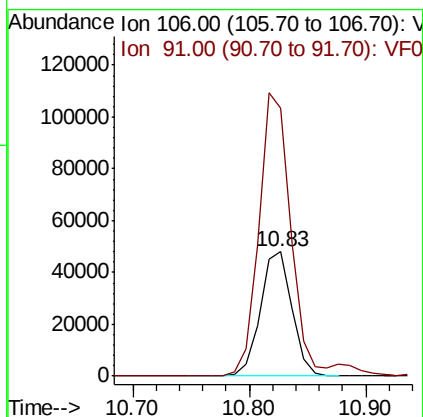
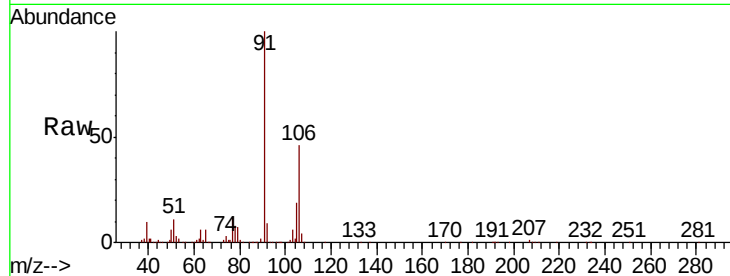




#69
o-Xylene
Concen: 20.600 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

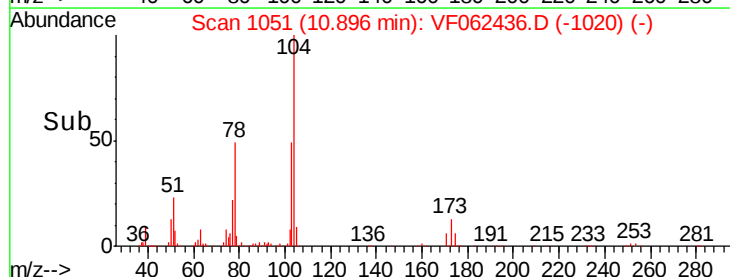
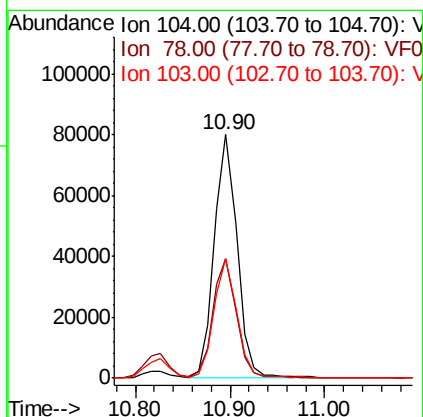
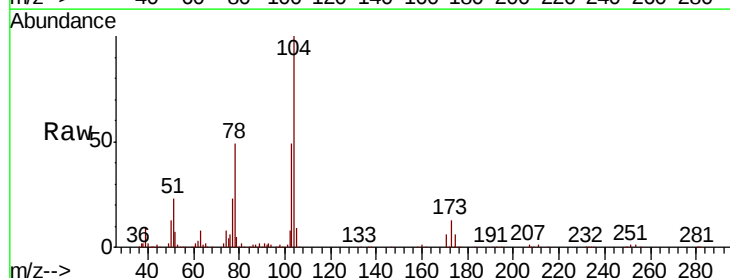
Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS02

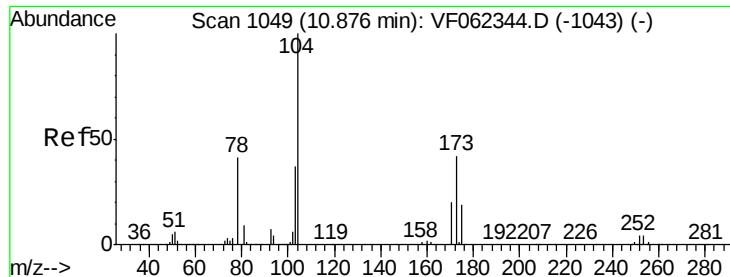
Tot Ion:106 Resp: 90200
Ion Ratio Lower Upper
106 100
91 227.5 111.3 333.8



#70
Styrene
Concen: 20.565 ug/l
RT: 10.90 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062436.D
Acq: 10 May 2019 23:30

Tgt Ion:104 Resp: 134952
Ion Ratio Lower Upper
104 100
78 50.9 39.5 59.3
103 48.4 38.4 57.6





#71

Bromoform

Concen: 19.131 ug/l

RT: 10.89 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

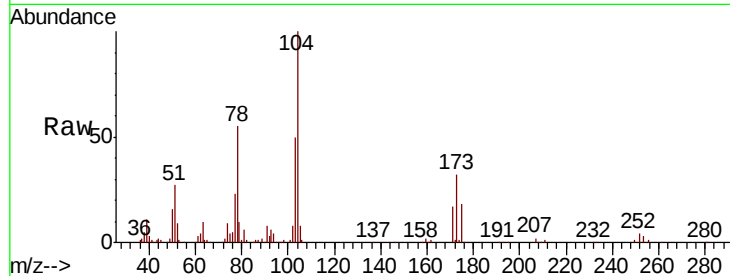
Tot Ion:173 Resp: 33161

Ion Ratio Lower Upper

173 100

175 53.8 23.8 71.2

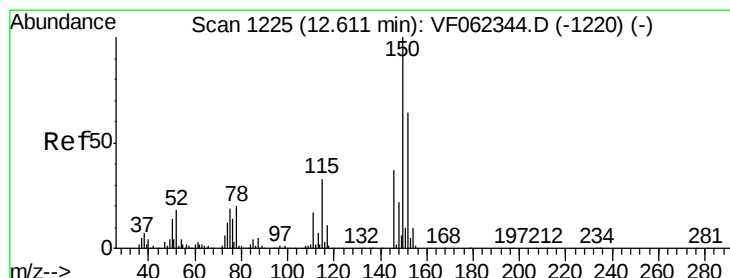
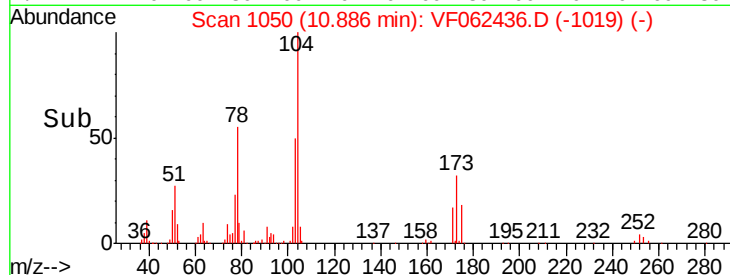
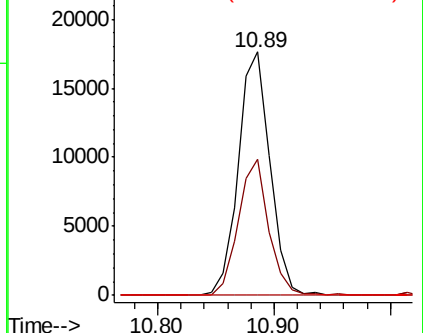
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

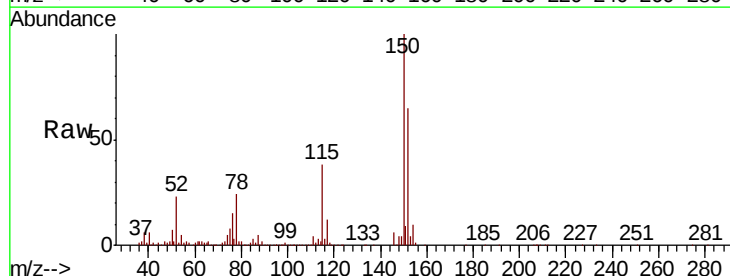
Tgt Ion:152 Resp: 235145

Ion Ratio Lower Upper

152 100

115 54.0 26.4 79.2

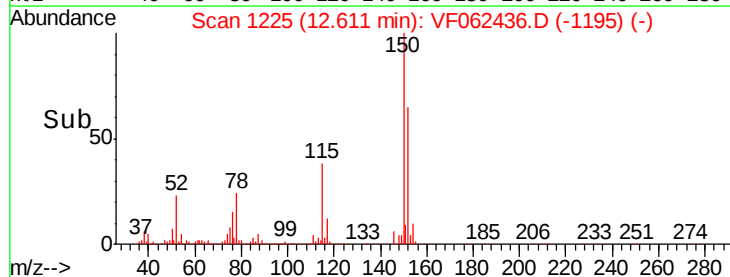
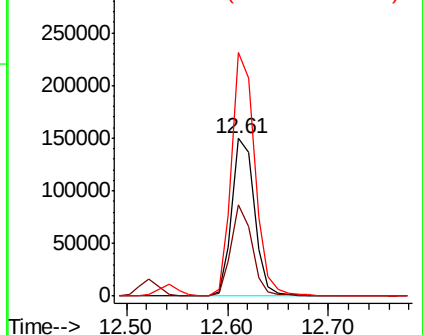
150 158.2 0.0 335.0

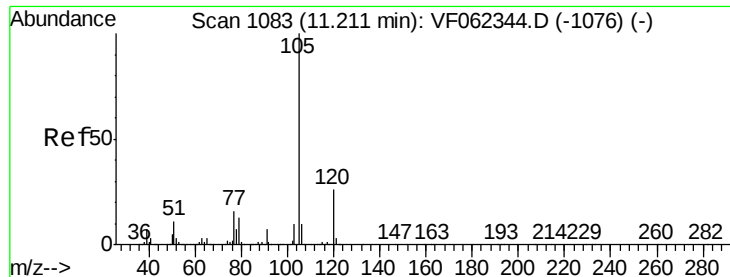


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.505 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

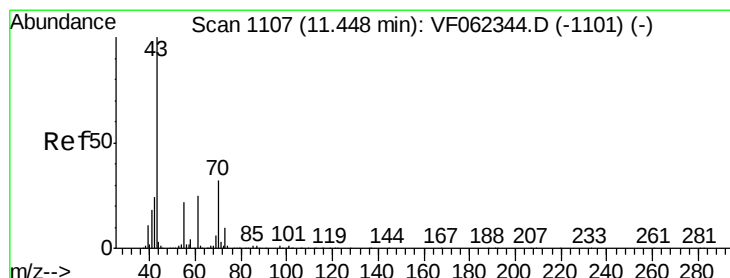
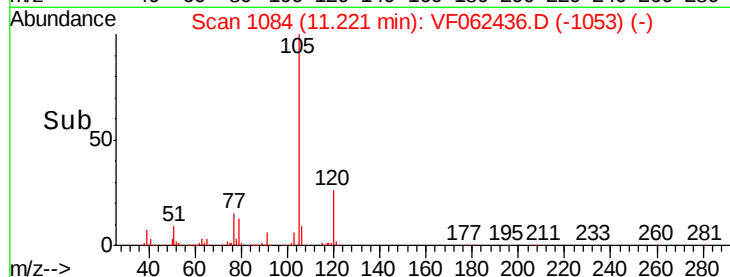
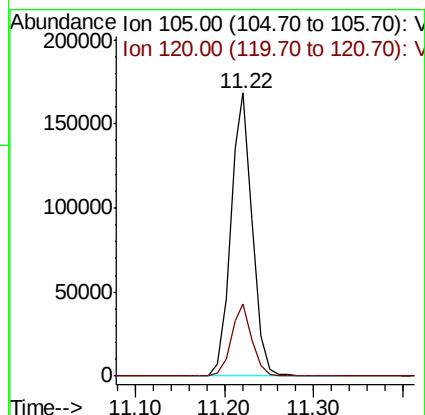
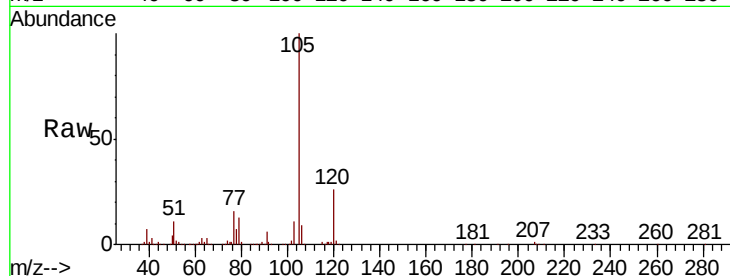
VF0510SBS02

Tot Ion: 105 Resp: 285846

Ion Ratio Lower Upper

105 100

120 24.4 12.7 38.0



#74

N-ethyl acetate

Concen: 19.280 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Tgt Ion: 43 Resp: 57702

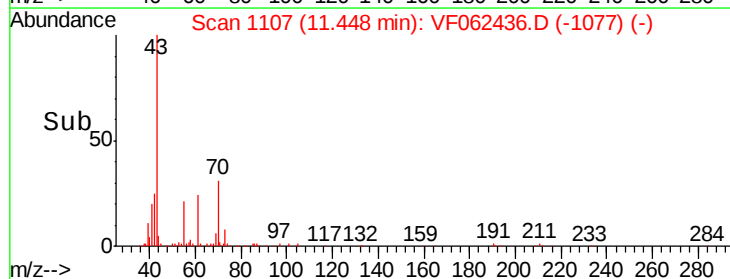
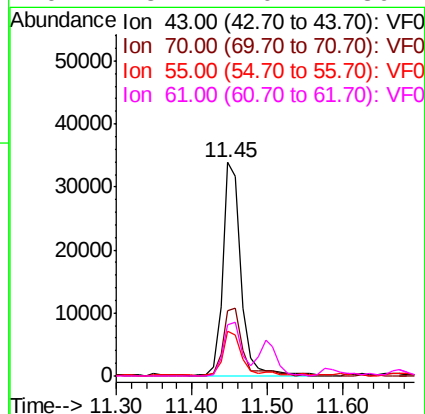
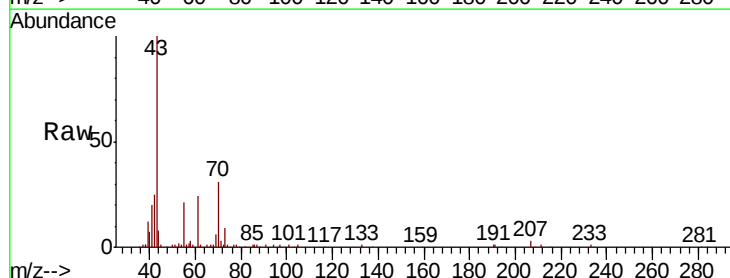
Ion Ratio Lower Upper

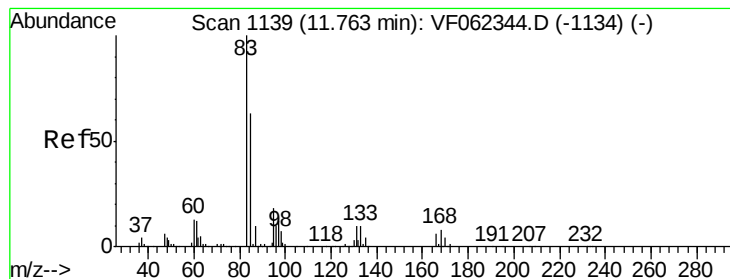
43 100

70 34.0 26.5 39.7

55 22.6 17.8 26.6

61 25.4 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.817 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

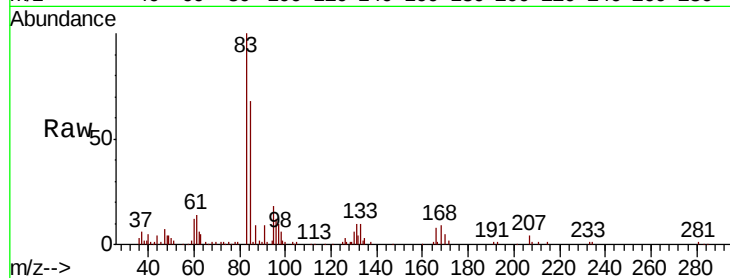
Tot Ion: 83 Resp: 43255

Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.8	17.4
85	73.3	35.3	105.7

83 100

131 11.4 5.8 17.4

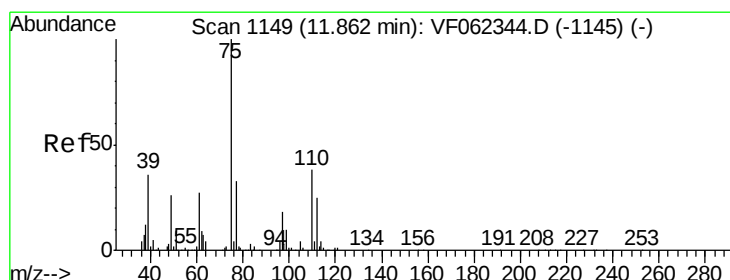
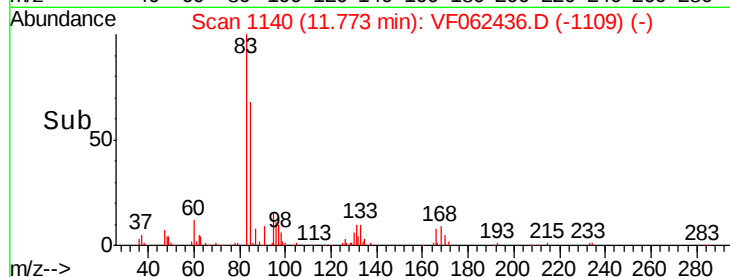
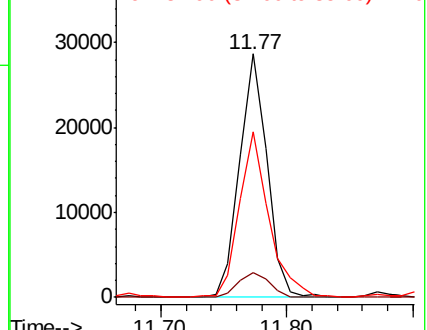
85 73.3 35.3 105.7



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 19.864 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF062436.D

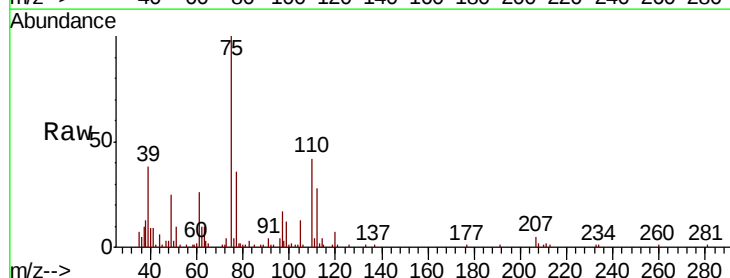
Acq: 10 May 2019 23:30

Tgt Ion: 75 Resp: 33079

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

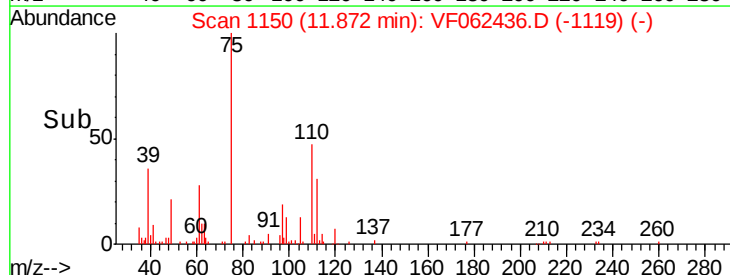
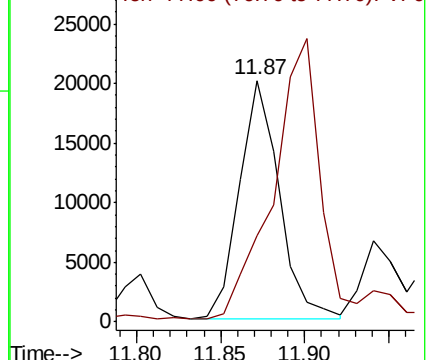
75 100

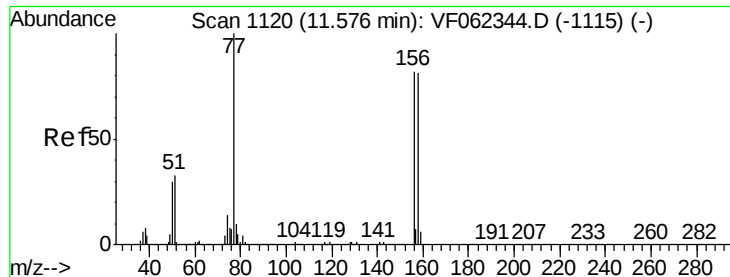
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.891 ug/l

RT: 11.59 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBSD02

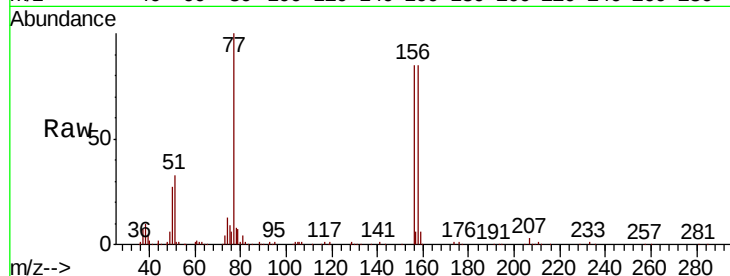
Tot Ion:156 Resp: 76430

Ion Ratio Lower Upper

156 100

77 127.1 64.8 194.3

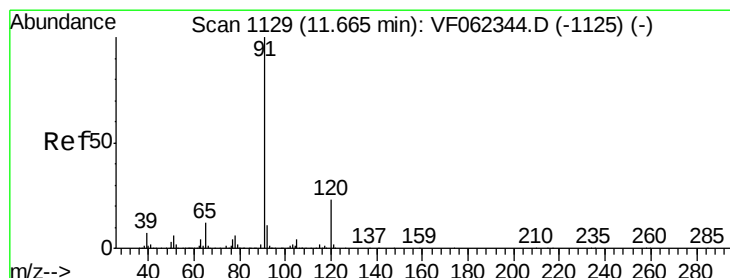
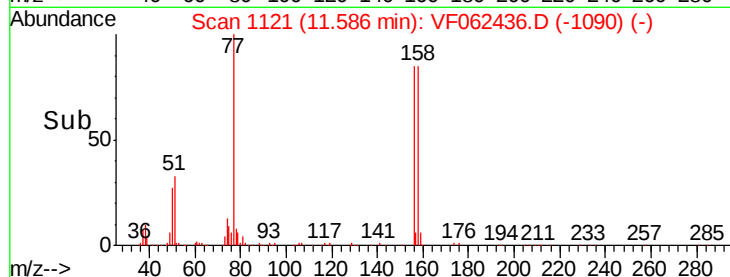
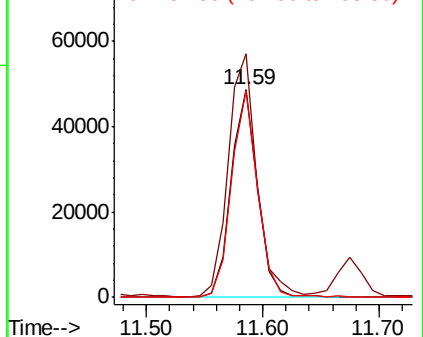
158 99.6 49.1 147.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.830 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VF062436.D

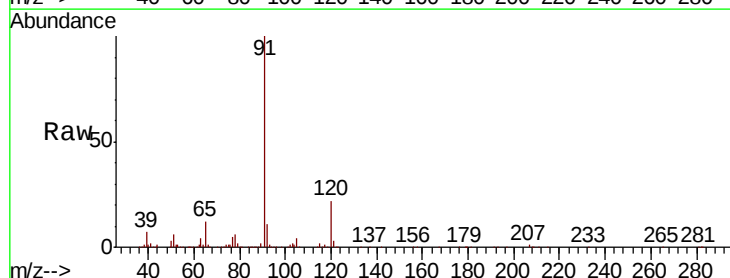
Acq: 10 May 2019 23:30

Tgt Ion: 91 Resp: 309156

Ion Ratio Lower Upper

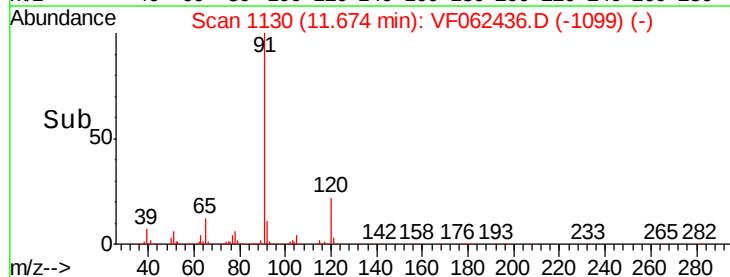
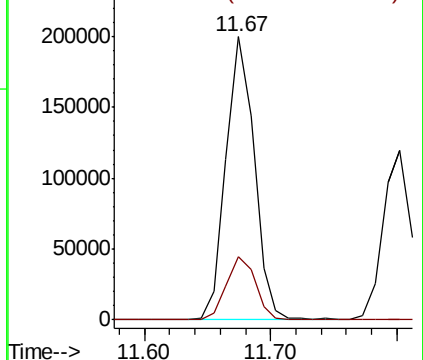
91 100

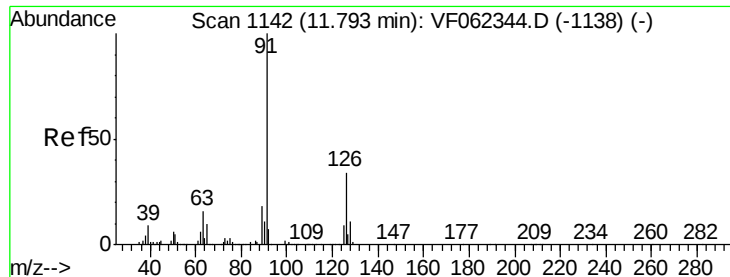
120 23.0 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.229 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

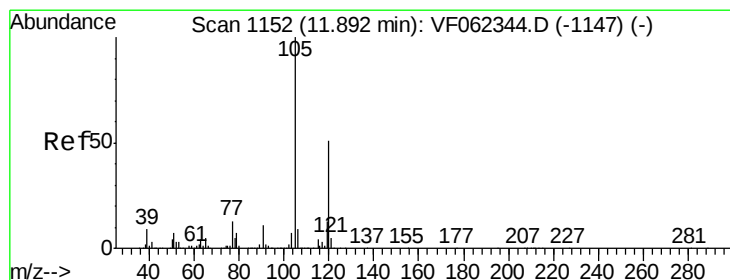
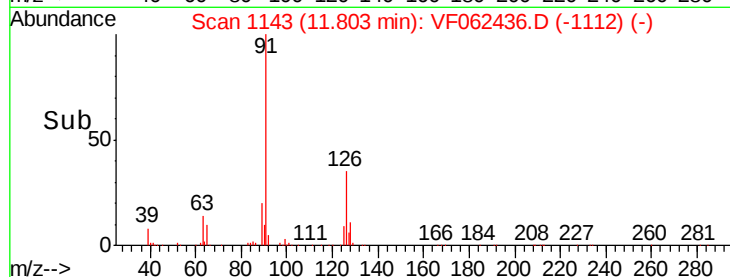
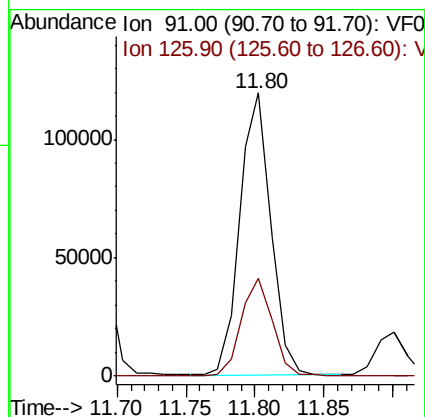
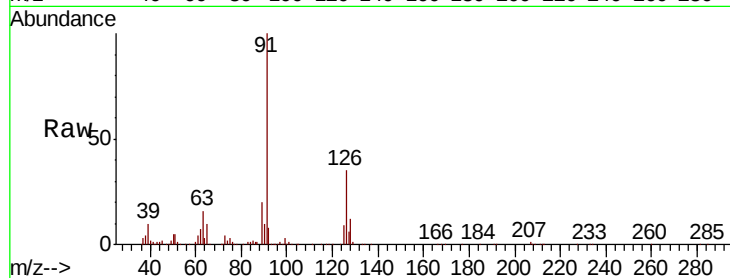
VF0510SBSD02

Tot Ion: 91 Resp: 186692

Ion Ratio Lower Upper

91 100

126 35.2 17.8 53.4



#80

1,3,5-Trimethylbenzene

Concen: 21.261 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062436.D

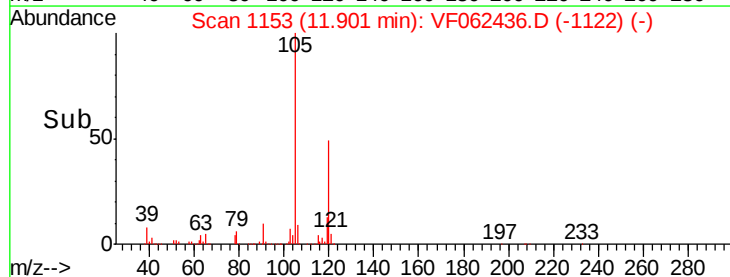
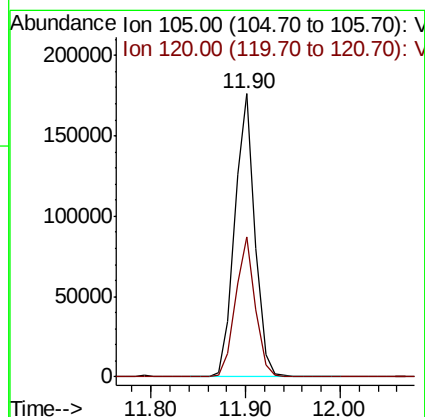
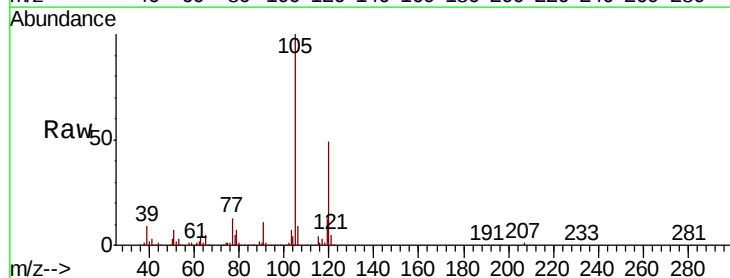
Acq: 10 May 2019 23:30

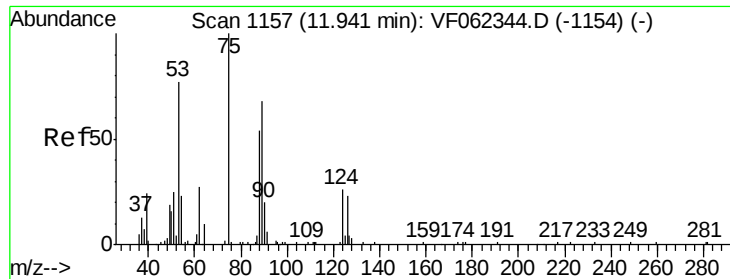
Tgt Ion:105 Resp: 259777

Ion Ratio Lower Upper

105 100

120 48.7 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 13.872 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBSD02

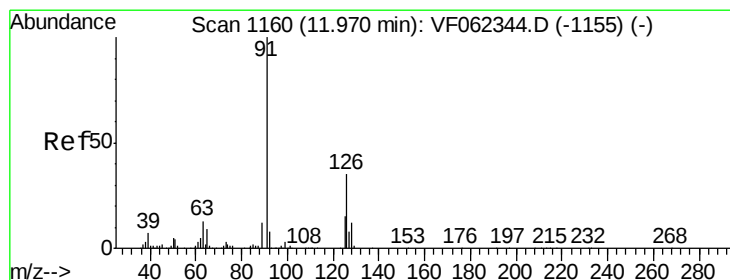
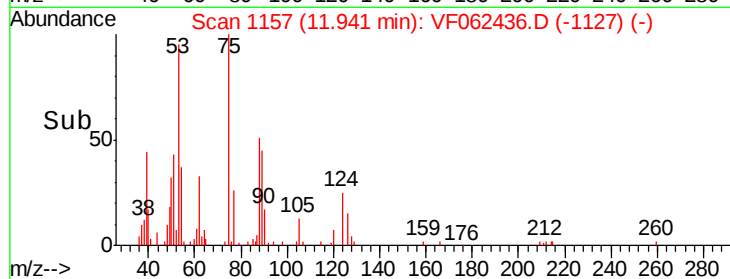
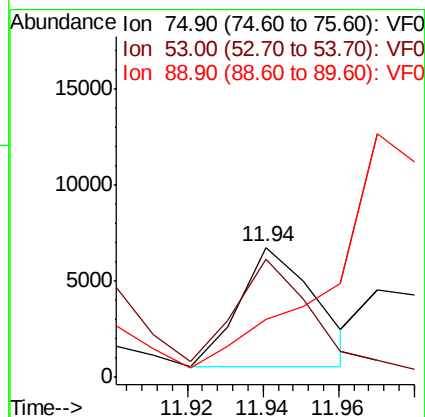
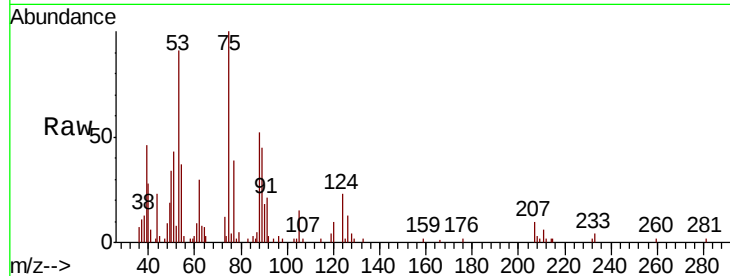
Tot Ion: 75 Resp: 8683

Ion Ratio Lower Upper

75 100

53 114.3 71.9 107.9#

89 0.0 0.0 0.0



#82

4-Chlorotoluene

Concen: 21.221 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF062436.D

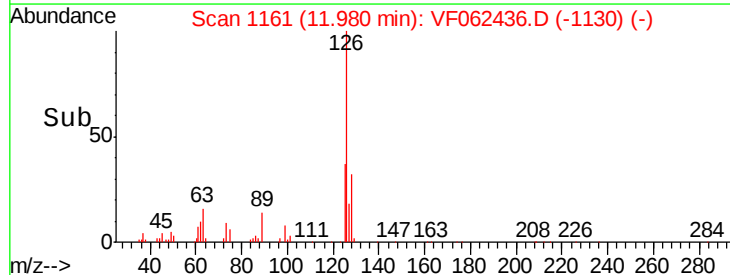
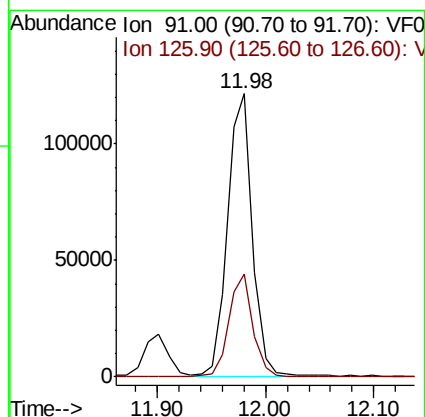
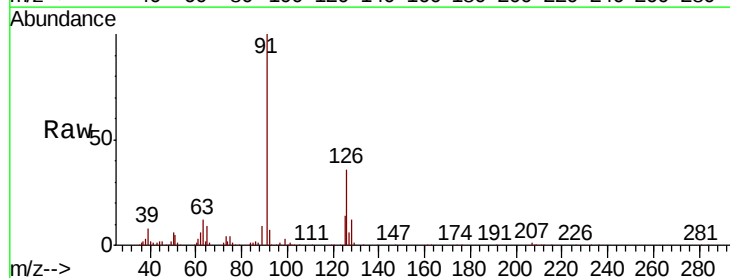
Acq: 10 May 2019 23:30

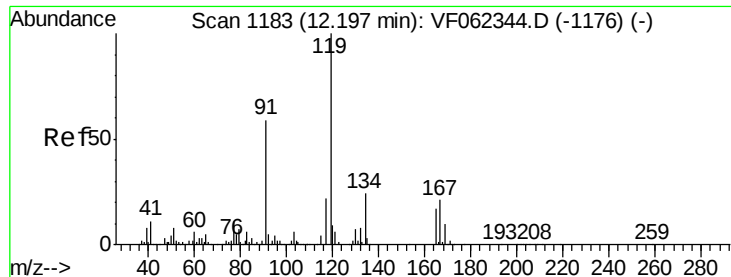
Tgt Ion: 91 Resp: 193433

Ion Ratio Lower Upper

91 100

126 35.5 17.7 53.1





#83

tert-Butylbenzene

Concen: 20.513 ug/l

RT: 12.20 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBSD02

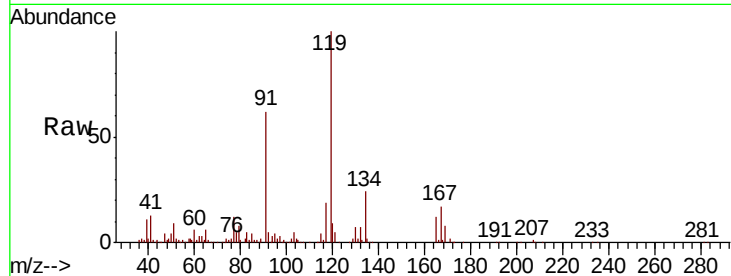
Tot Ion:119 Resp: 263404

Ion Ratio Lower Upper

119 100

91 62.0 30.4 91.3

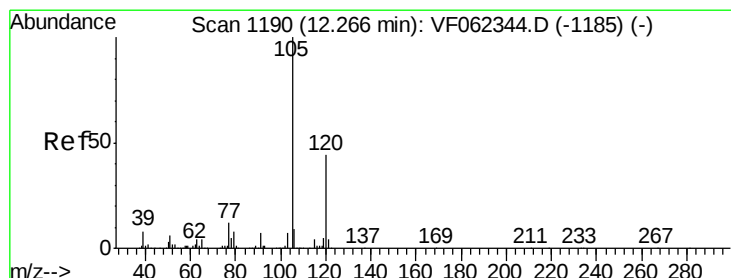
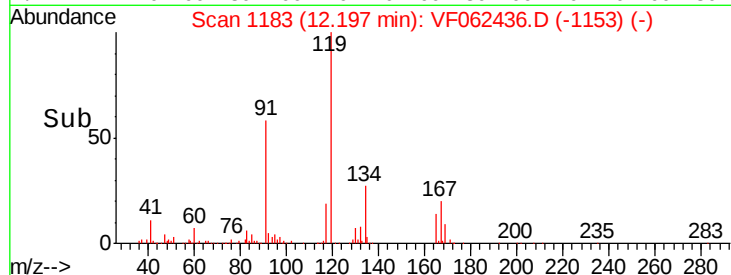
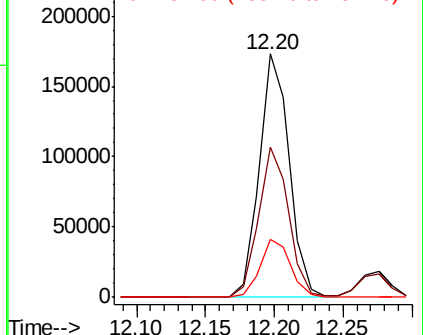
134 24.2 11.9 35.7



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: 20.495 ug/l

RT: 12.28 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VF062436.D

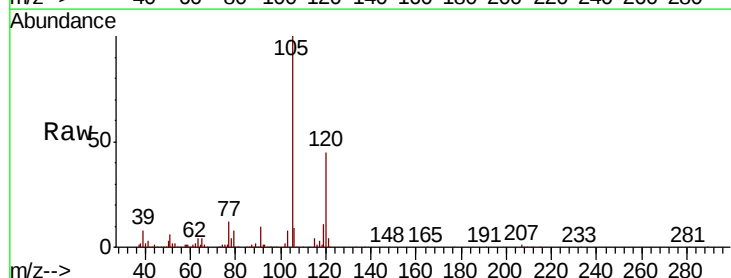
Acq: 10 May 2019 23:30

Tgt Ion:105 Resp: 245068

Ion Ratio Lower Upper

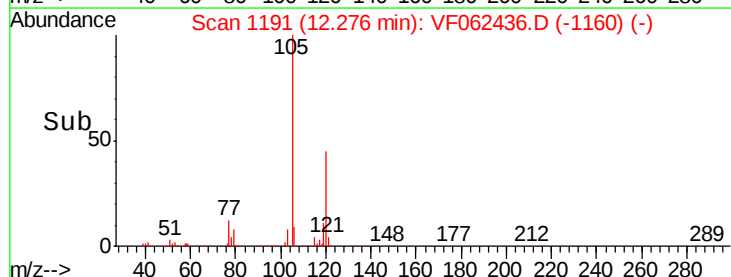
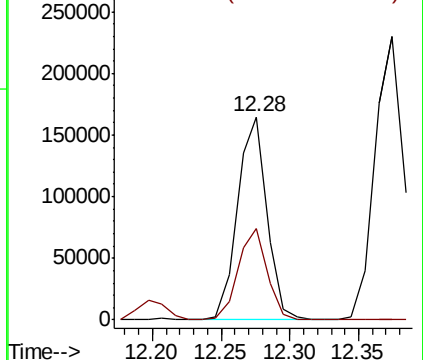
105 100

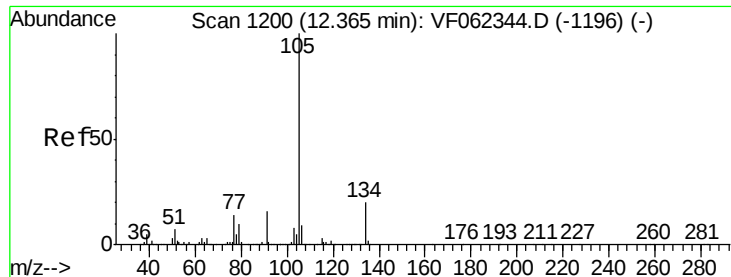
120 44.7 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.659 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

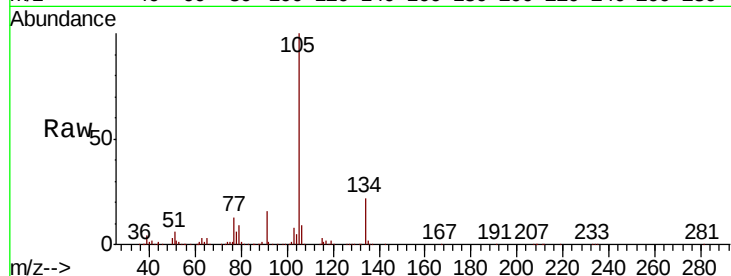
VF0510SBSD02

Tot Ion:105 Resp: 338531

Ion Ratio Lower Upper

105 100

134 20.4 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.37

250000

200000

150000

100000

50000

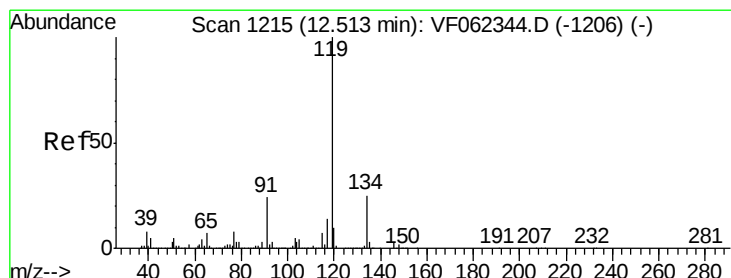
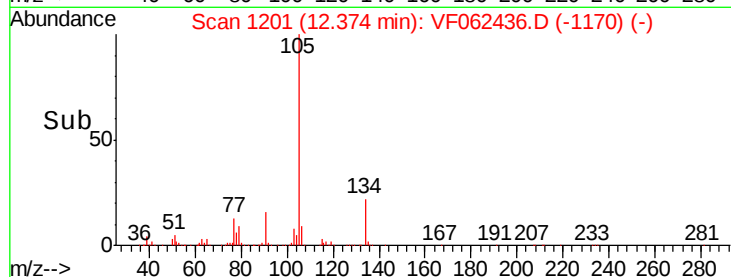
0

Time-->

12.30

12.40

12.50



#86

p-Isopropyltoluene

Concen: 21.897 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

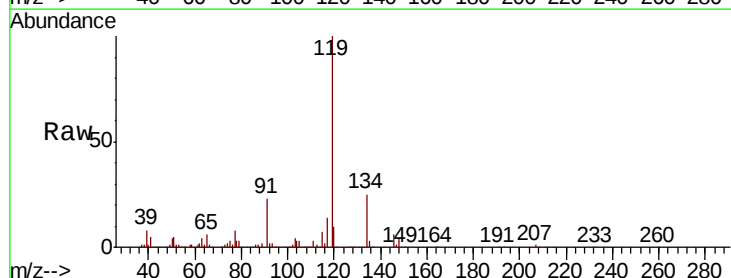
Tgt Ion:119 Resp: 317981

Ion Ratio Lower Upper

119 100

134 25.2 12.9 38.7

91 23.8 12.3 36.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

300000

250000

200000

150000

100000

50000

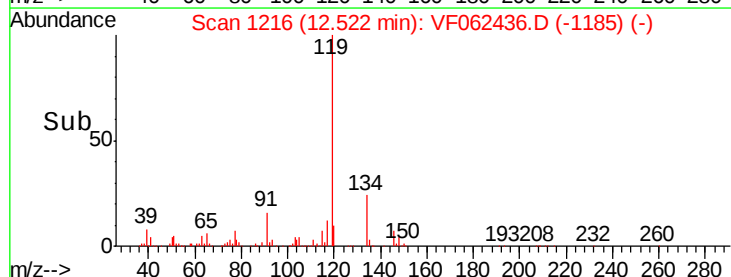
0

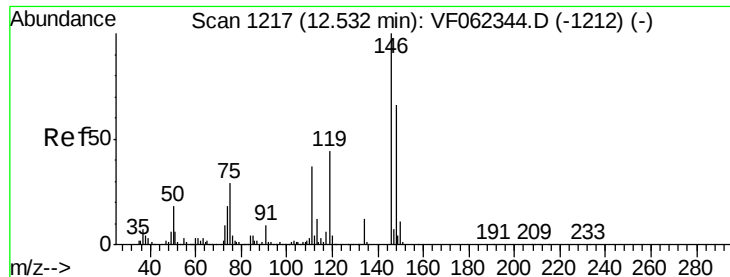
Time-->

12.40

12.50

12.60

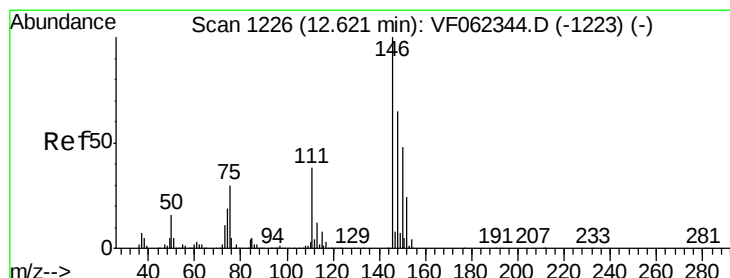
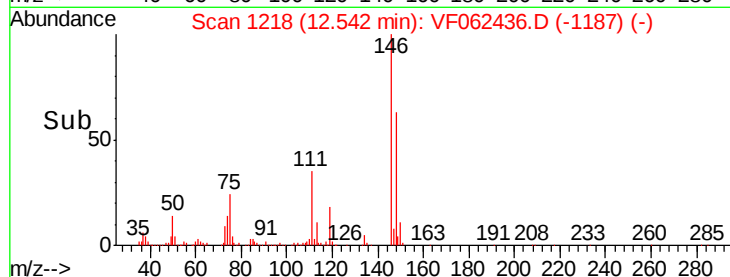
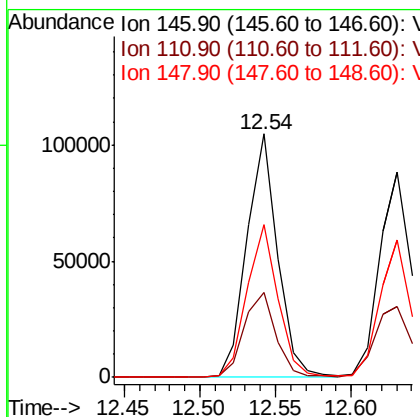
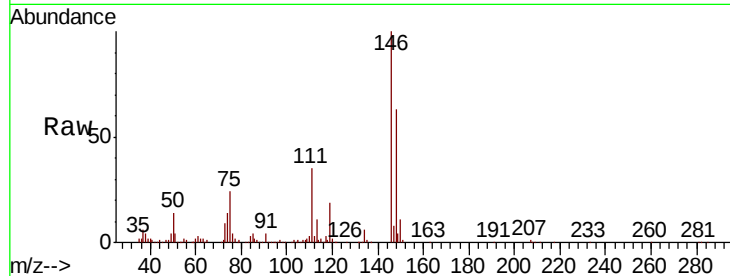




#87
 1,3-Dichlorobenzene
 Concen: 22.270 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

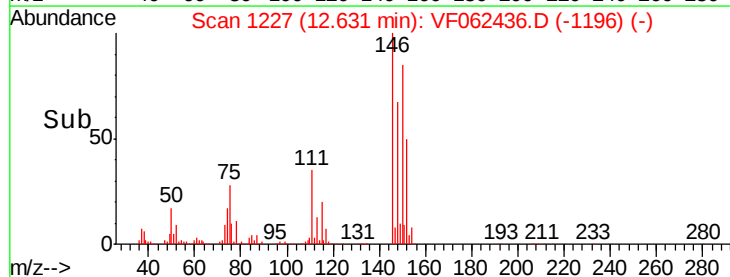
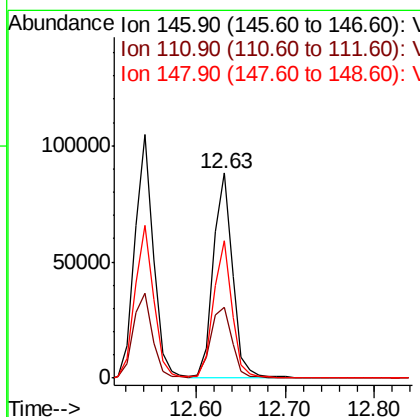
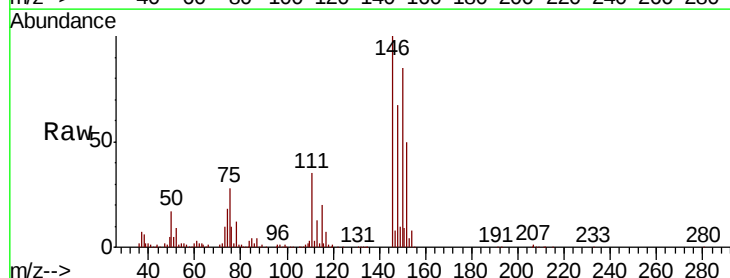
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS02

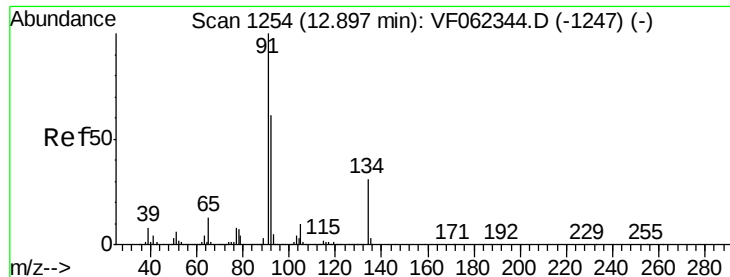
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.3	54.8
148	63.9	32.3	96.9



#88
 1,4-Dichlorobenzene
 Concen: 20.544 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	18.8	56.3
148	65.3	32.2	96.6





#89

n-Butylbenzene

Concen: 21.045 ug/l

RT: 12.90 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

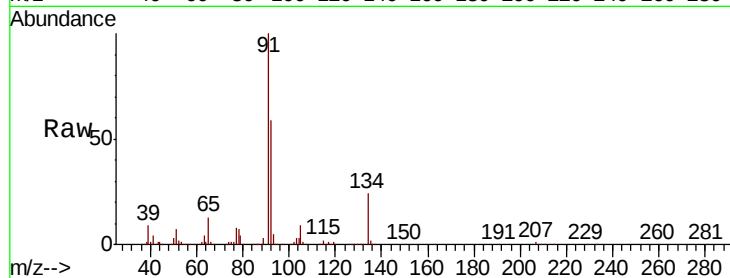
Tot Ion: 91 Resp: 271890

Ion Ratio Lower Upper

91 100

92 58.8 30.0 90.0

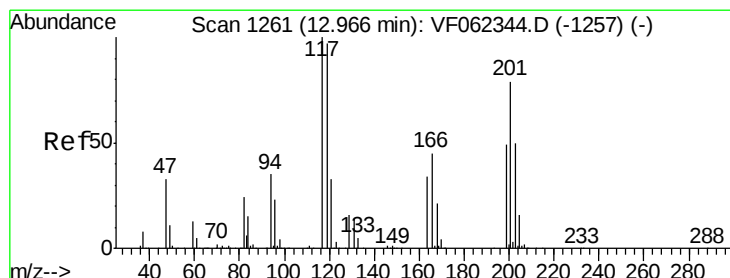
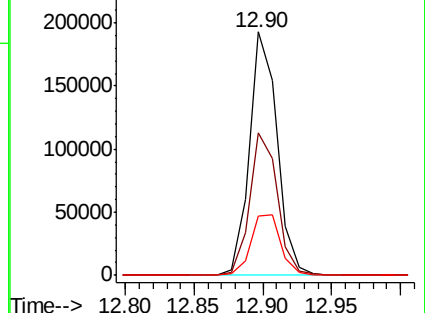
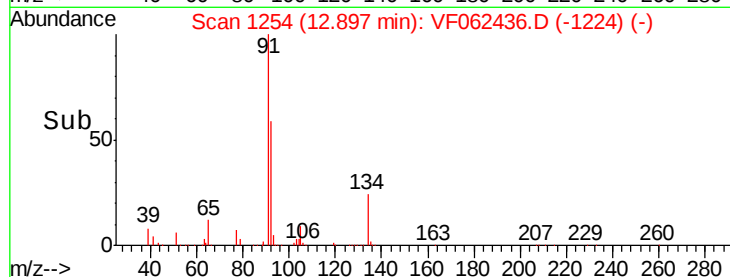
134 27.0 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.112 ug/l

RT: 12.98 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VF062436.D

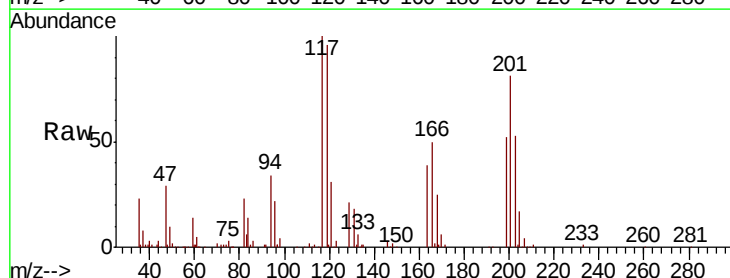
Acq: 10 May 2019 23:30

Tgt Ion: 117 Resp: 72923

Ion Ratio Lower Upper

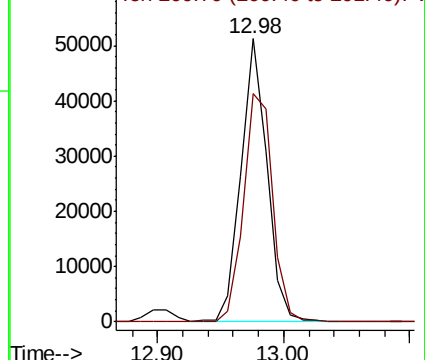
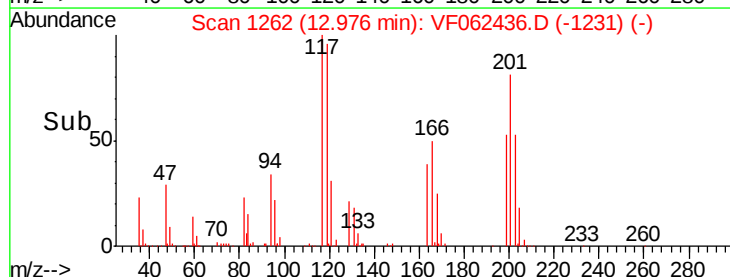
117 100

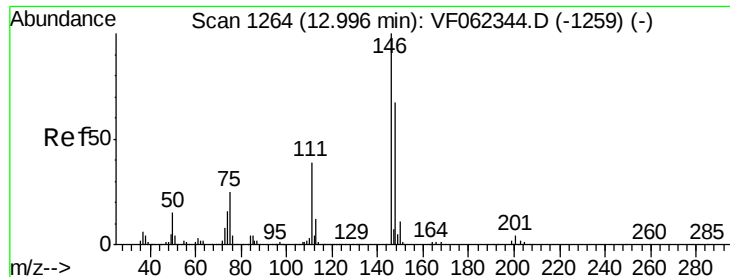
201 90.6 46.2 138.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 21.633 ug/l

RT: 13.01 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBSD02

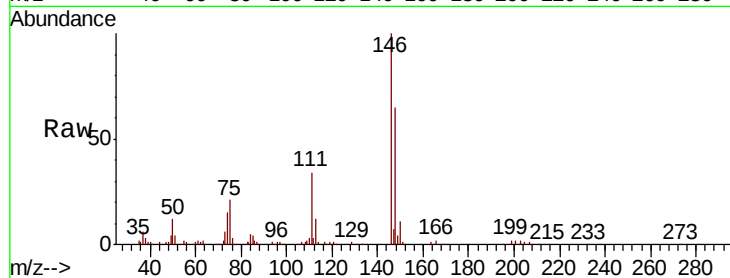
Tot Ion:146 Resp: 139908

Ion Ratio Lower Upper

146 100

111 38.1 20.0 60.0

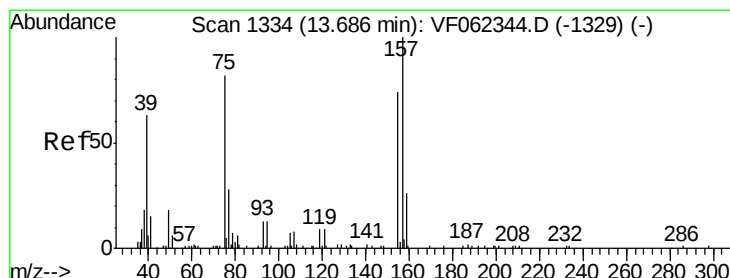
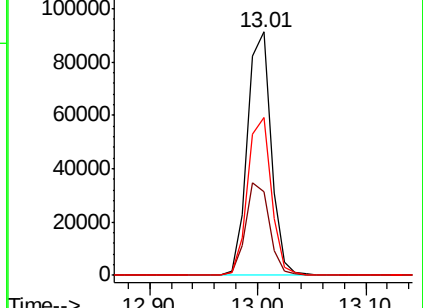
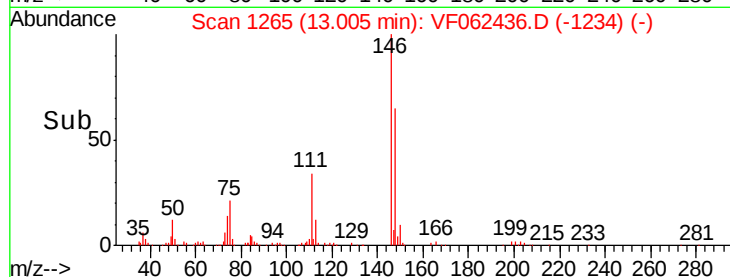
148 65.3 33.1 99.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.882 ug/l

RT: 13.70 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

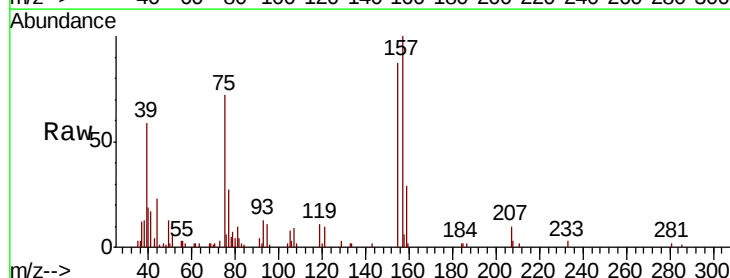
Tgt Ion: 75 Resp: 9233

Ion Ratio Lower Upper

75 100

155 99.9 51.8 155.4

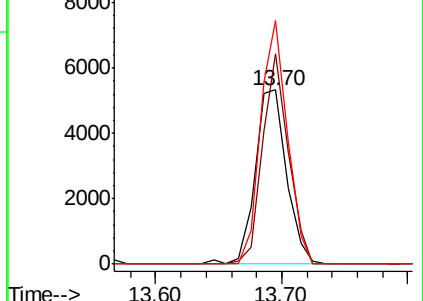
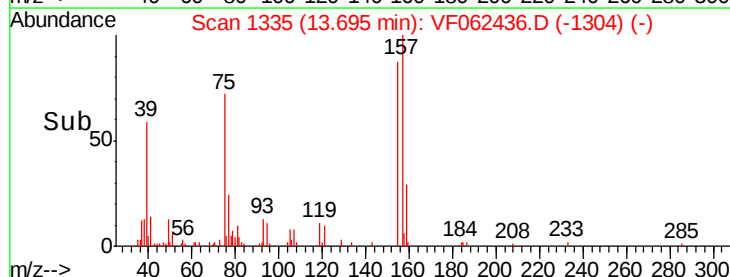
157 119.6 67.3 201.8

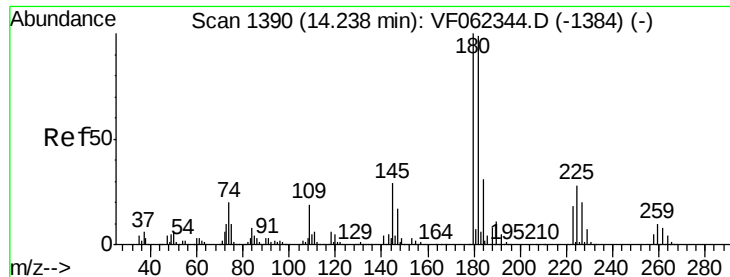


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

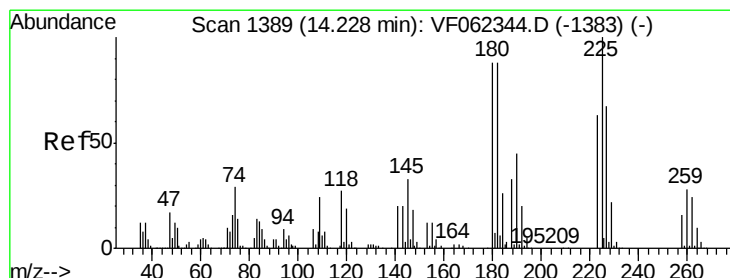
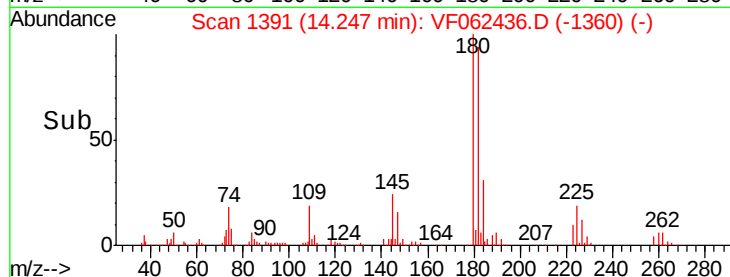
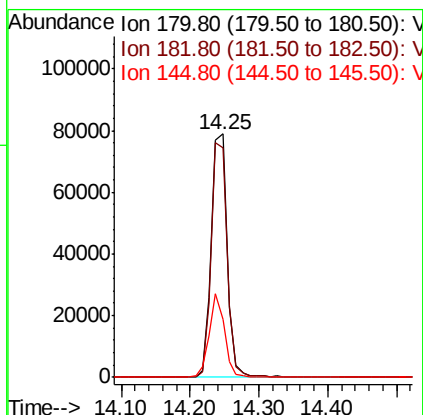
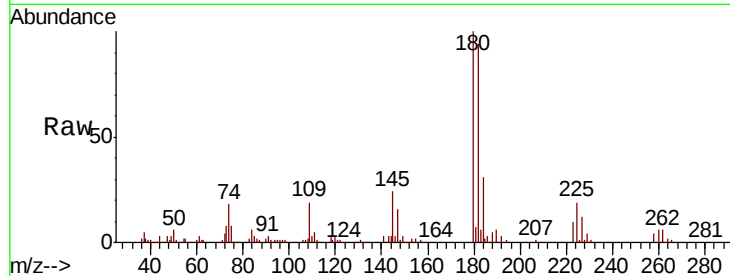




#93
 1,2,4-Trichlorobenzene
 Concen: 21.985 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

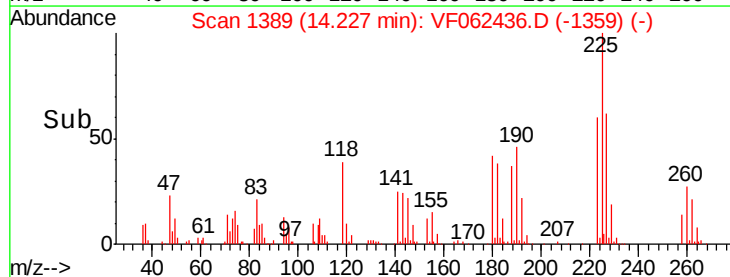
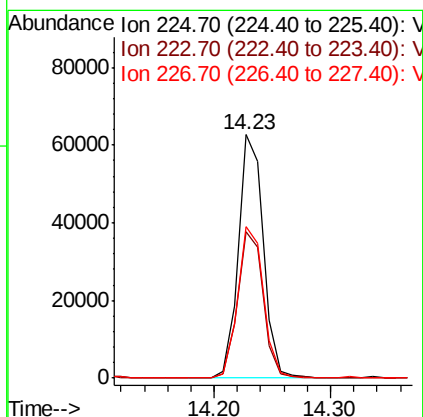
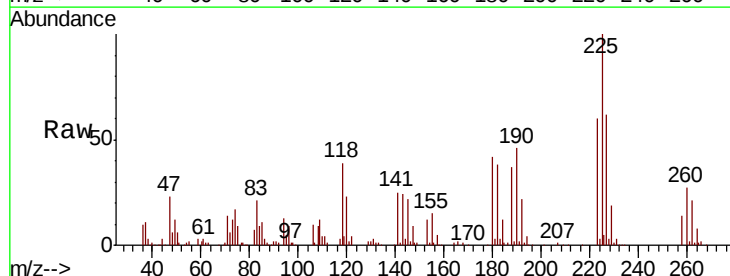
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS02

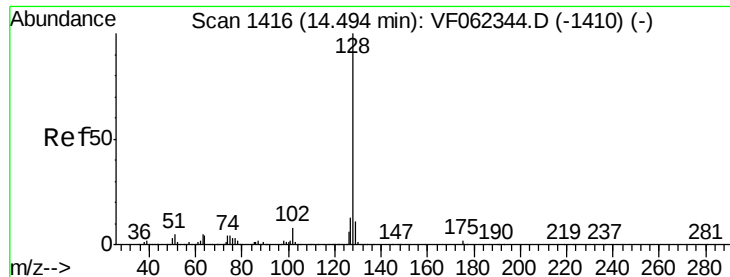
Tot Ion:180 Resp: 127538
 Ion Ratio Lower Upper
 180 100
 182 95.5 49.0 147.0
 145 32.4 16.7 50.1



#94
 Hexachlorobutadiene
 Concen: 21.575 ug/l
 RT: 14.23 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062436.D
 Acq: 10 May 2019 23:30

Tgt Ion:225 Resp: 93283
 Ion Ratio Lower Upper
 225 100
 223 61.7 31.9 95.5
 227 64.4 33.1 99.5





#95

Naphthalene

Concen: 20.235 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS02

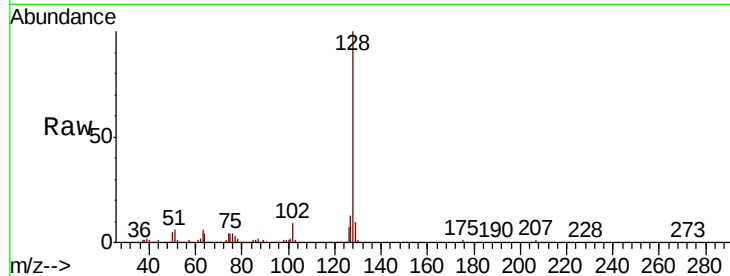
Tot Ion:128 Resp: 176474

Ion Ratio Lower Upper

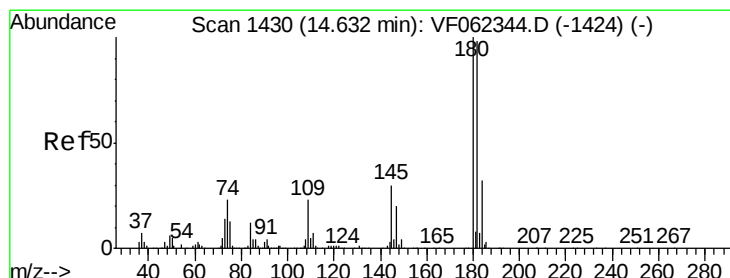
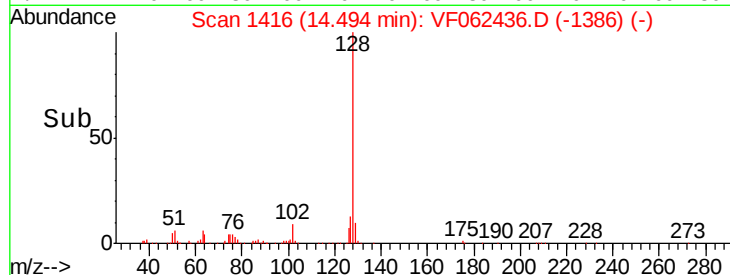
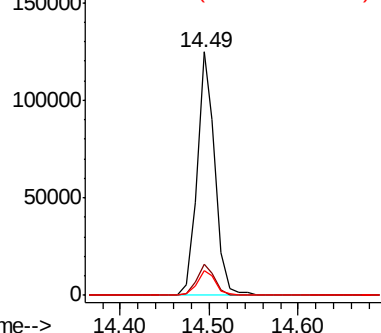
128 100

127 12.8 10.5 15.7

129 10.7 8.6 12.8



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: 20.454 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. 0.01 min

Lab File: VF062436.D

Acq: 10 May 2019 23:30

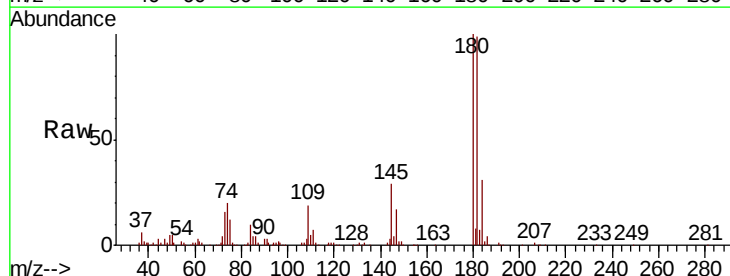
Tgt Ion:180 Resp: 114953

Ion Ratio Lower Upper

180 100

182 99.0 49.4 148.0

145 28.8 14.8 44.3



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

