

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061822.D
 Acq On : 4 Mar 2019 16:04
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Quant Time: Mar 05 04:36:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:03:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	327135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	505976	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	432520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	239939	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	11384	4.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.50%	
35) Dibromofluoromethane	4.12	113	16501	4.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.78%	
50) Toluene-d8	7.56	98	50201	4.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.30%	
62) 4-Bromofluorobenzene	11.42	95	20250	4.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.26%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.96	85	20215	5.381	ug/l 94
3) Chloromethane	1.09	50	21838	5.540	ug/l # 83
4) Vinyl Chloride	1.14	62	19074	5.205	ug/l 93
5) Bromomethane	1.33	94	14238	5.646	ug/l 96
6) Chloroethane	1.40	64	9022	4.996	ug/l 94
7) Trichlorofluoromethane	1.49	101	17202	3.892	ug/l 94
8) Diethyl Ether	1.63	74	5229	4.695	ug/l 77
9) 1,1,2-Trichlorotrifluoroet	1.83	101	17328	5.435	ug/l # 86
10) Methyl Iodide	1.92	142	25657	4.213	ug/l 98
11) Tert butyl alcohol	2.58	59	3039	21.889	ug/l 99
12) 1,1-Dichloroethene	1.80	96	15468	5.518	ug/l 90
13) Acrolein	2.00	56	5135	29.428	ug/l 97
14) Allyl chloride	2.10	41	16957	4.930	ug/l 95
15) Acrylonitrile	2.96	53	11924	24.214	ug/l # 89
16) Acetone	2.25	43	14297	27.777	ug/l 92
17) Carbon Disulfide	1.83	76	46596	5.288	ug/l 97
18) Methyl Acetate	2.44	43	5569	4.803	ug/l 92
19) Methyl tert-butyl Ether	2.44	73	24529	5.120	ug/l 99
20) Methylene Chloride	2.19	84	10161	3.268	ug/l 91
21) trans-1,2-Dichloroethene	2.31	96	15922	5.225	ug/l # 90
22) Diisopropyl ether	2.81	45	41723	5.053	ug/l # 98
23) Vinyl Acetate	3.19	43	89237	22.127	ug/l # 94
24) 1,1-Dichloroethane	2.88	63	24251	4.853	ug/l 97
25) 2-Butanone	4.35	43	25729	22.885	ug/l 93
26) 2,2-Dichloropropane	3.62	77	11892	5.618	ug/l 82
27) cis-1,2-Dichloroethene	3.48	96	18905	4.726	ug/l 95
28) Bromochloromethane	3.72	49	11679	4.871	ug/l 94
29) Tetrahydrofuran	4.10	42	11575	22.652	ug/l 98
30) Chloroform	3.87	83	28528	5.020	ug/l 99
31) Cyclohexane	3.70	56	26613	4.920	ug/l 93
32) 1,1,1-Trichloroethane	4.11	97	18661	5.013	ug/l 96
36) 1,1-Dichloropropene	4.29	75	23660	4.720	ug/l 89
37) Ethyl Acetate	4.13	43	9800	4.209	ug/l # 89
38) Carbon Tetrachloride	4.00	117	16775	4.847	ug/l 97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF030419\
 Data File : VF061822.D
 Acq On : 4 Mar 2019 16:04
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Quant Time: Mar 05 04:36:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:03:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	27586	4.654	ug/l	89
40) Benzene	4.64	78	60852	4.641	ug/l	99
41) Methacrylonitrile	4.76	41	5661	4.755	ug/l #	83
42) 1,2-Dichloroethane	4.95	62	13416	4.278	ug/l	98
43) Isopropyl Acetate	6.97	43	12394	4.498	ug/l #	99
44) Trichloroethene	5.51	130	19881	4.689	ug/l	99
45) 1,2-Dichloropropane	6.25	63	14775	4.662	ug/l	94
46) Dibromomethane	6.10	93	8496	4.354	ug/l	88
47) Bromodichloromethane	6.40	83	19326	4.523	ug/l	88
48) Methyl methacrylate	6.73	41	6985	4.212	ug/l	96
49) 1,4-Dioxane	6.72	88	1075	68.956	ug/l #	76
51) 4-Methyl-2-Pentanone	8.27	43	41662	21.158	ug/l	96
52) Toluene	7.63	92	38086	4.790	ug/l	88
53) t-1,3-Dichloropropene	8.28	75	16628	4.676	ug/l	91
54) cis-1,3-Dichloropropene	7.30	75	23103	4.877	ug/l	95
55) 1,1,2-Trichloroethane	8.50	97	10289	4.404	ug/l #	72
56) Ethyl methacrylate	8.63	69	11553	4.442	ug/l	97
57) 1,3-Dichloropropane	8.86	76	16177	4.149	ug/l #	80
58) 2-Chloroethyl Vinyl ether	7.30	63	8683	19.349	ug/l	89
59) 2-Hexanone	9.50	43	33437	24.225	ug/l	98
60) Dibromochloromethane	8.72	129	14373	4.420	ug/l	99
61) 1,2-Dibromoethane	9.00	107	11345	4.477	ug/l	90
64) Tetrachloroethene	8.16	164	15987	4.522	ug/l	94
65) Chlorobenzene	9.80	112	41920	4.776	ug/l	90
66) 1,1,1,2-Tetrachloroethane	9.94	131	15696	4.564	ug/l	92
67) Ethyl Benzene	9.91	91	70603	4.837	ug/l	96
68) m/p-Xylenes	10.13	106	55722	9.975	ug/l	98
69) o-Xylene	10.72	106	28571	4.793	ug/l	93
70) Styrene	10.79	104	40662	4.822	ug/l	95
71) Bromoform	10.78	173	8011	4.290	ug/l	87
73) Isopropylbenzene	11.13	105	83717	4.901	ug/l	94
74) N-amyl acetate	11.38	43	17746	4.328	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	13510	4.414	ug/l	92
76) 1,2,3-Trichloropropane	11.80	75	9131	4.388	ug/l	99
77) Bromobenzene	11.49	156	20782	4.924	ug/l	85
78) n-propylbenzene	11.59	91	97366	4.967	ug/l	93
79) 2-Chlorotoluene	11.72	91	54573	4.971	ug/l	89
80) 1,3,5-Trimethylbenzene	11.83	105	68185	4.994	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.87	75	5768	5.782	ug/l	91
82) 4-Chlorotoluene	11.90	91	54655	4.796	ug/l	91
83) tert-Butylbenzene	12.14	119	65700	4.344	ug/l	91
84) 1,2,4-Trimethylbenzene	12.20	105	66270	4.886	ug/l	97
85) sec-Butylbenzene	12.31	105	93320	4.772	ug/l	99
86) p-Isopropyltoluene	12.46	119	80815	4.924	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	40766	4.955	ug/l	94
88) 1,4-Dichlorobenzene	12.57	146	37255	4.708	ug/l	97
89) n-Butylbenzene	12.85	91	77996	5.033	ug/l	94
90) Hexachloroethane	12.91	117	17665	4.628	ug/l	80
91) 1,2-Dichlorobenzene	12.94	146	37783	4.828	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	1595	3.287	ug/l	84

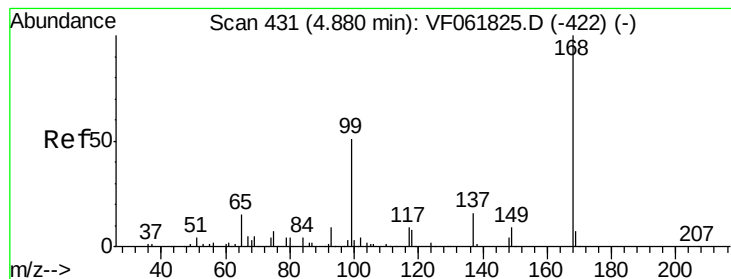
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030419\
Data File : VF061822.D
Acq On : 4 Mar 2019 16:04
Operator : VA/AP
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC005

Quant Time: Mar 05 04:36:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:03:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	27495	4.902	ug/l	98
94) Hexachlorobutadiene	14.19	225	21807	6.295	ug/l	92
95) Naphthalene	14.46	128	42750	4.356	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	21837	4.241	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

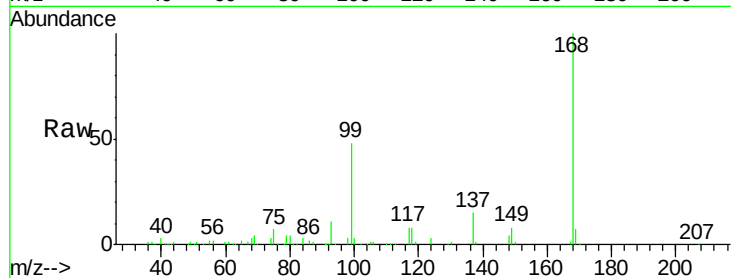
VSTDIC005

Tot Ion:168 Resp: 327135

Ion Ratio Lower Upper

168 100

99 48.0 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

120000

100000

80000

60000

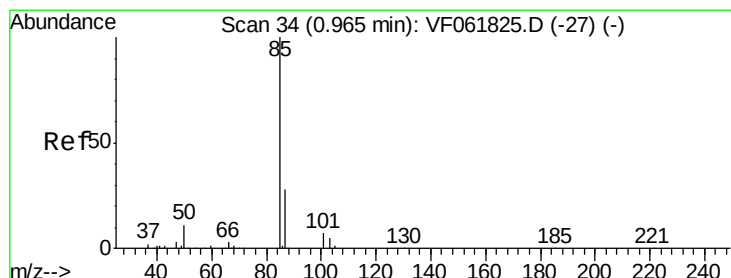
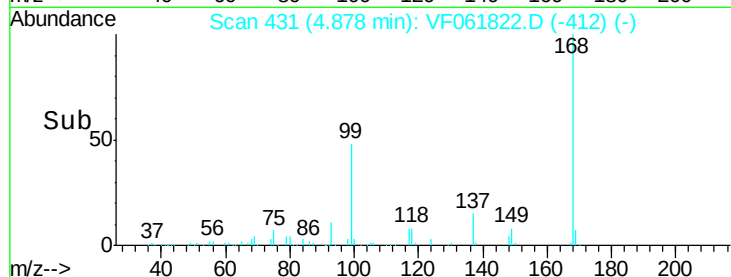
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 5.381 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061822.D

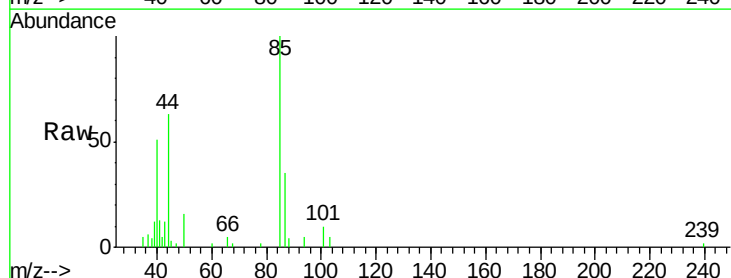
Acq: 4 Mar 2019 16:04

Tgt Ion: 85 Resp: 20215

Ion Ratio Lower Upper

85 100

87 35.3 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

6000

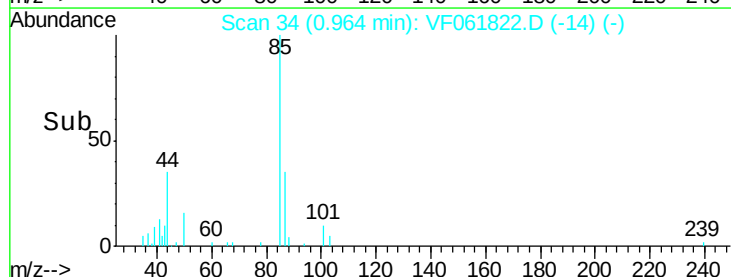
4000

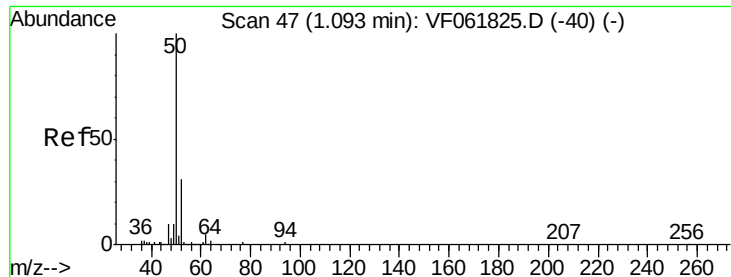
2000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 5.540 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

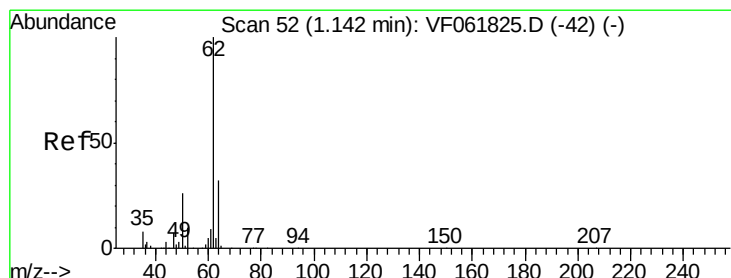
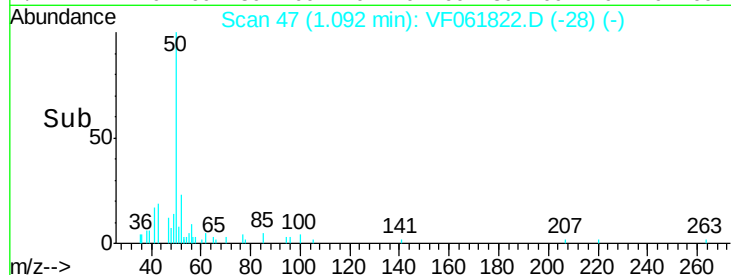
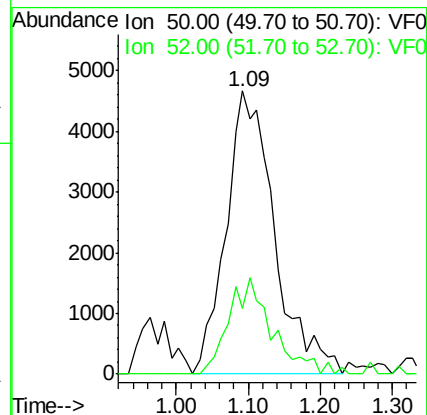
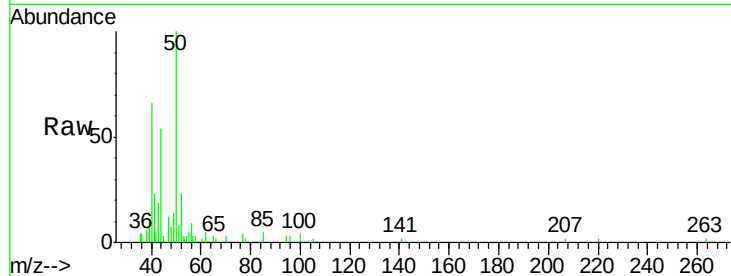
VSTDIC005

Tot Ion: 50 Resp: 21838

Ion Ratio Lower Upper

50 100

52 23.4 26.2 39.4#



#4

Vinyl Chloride

Concen: 5.205 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061822.D

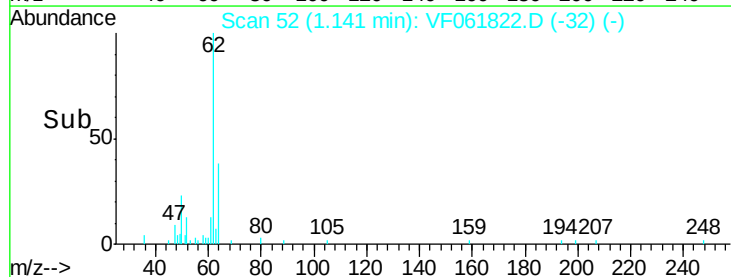
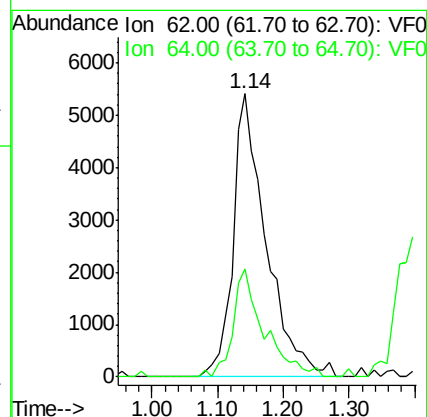
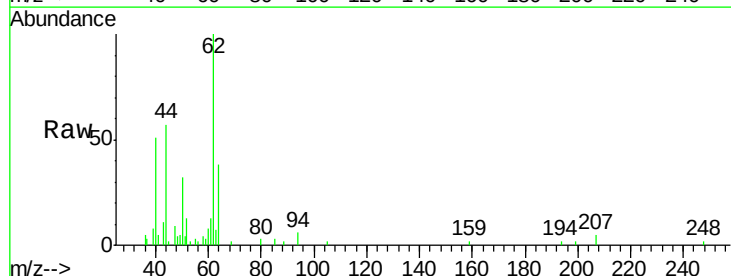
Acq: 4 Mar 2019 16:04

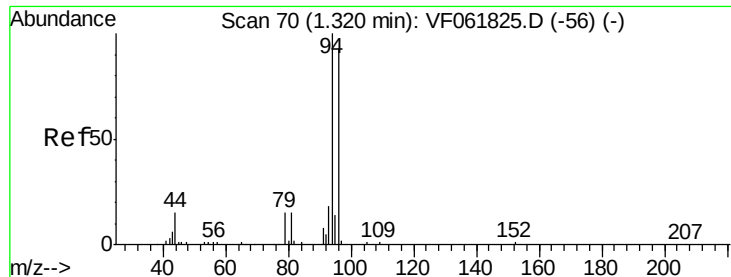
Tgt Ion: 62 Resp: 19074

Ion Ratio Lower Upper

62 100

64 38.3 27.5 41.3





#5

Bromomethane

Concen: 5.646 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

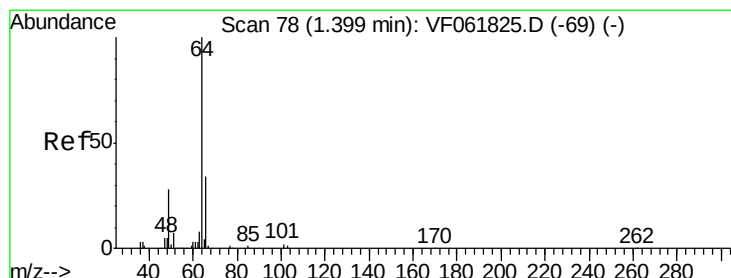
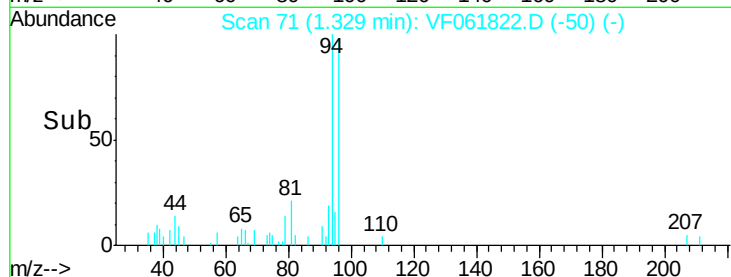
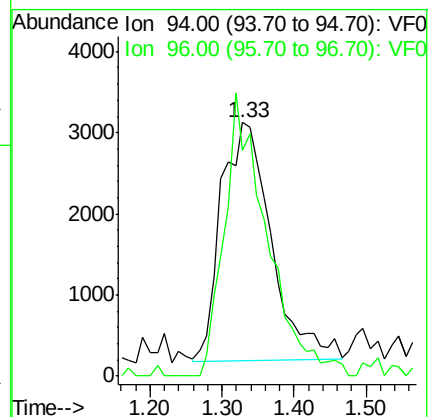
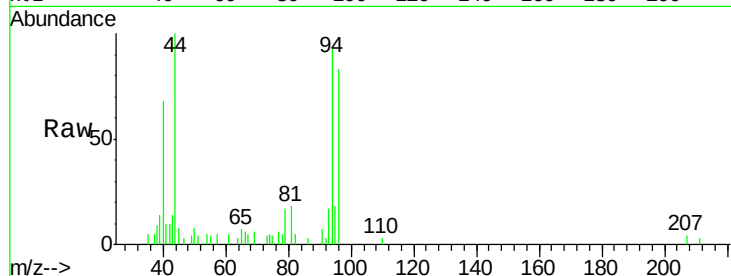
VSTDIC005

Tot Ion: 94 Resp: 14238

Ion Ratio Lower Upper

94 100

96 89.1 74.6 112.0



#6

Chloroethane

Concen: 4.996 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061822.D

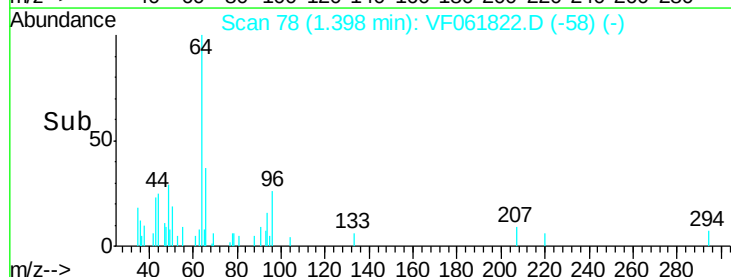
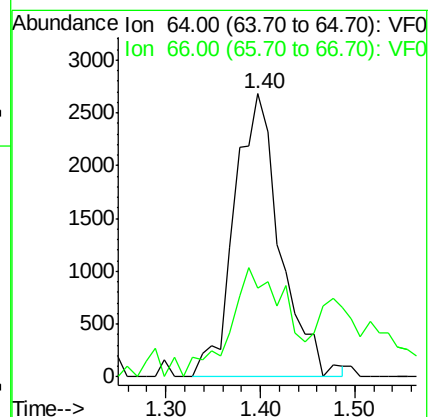
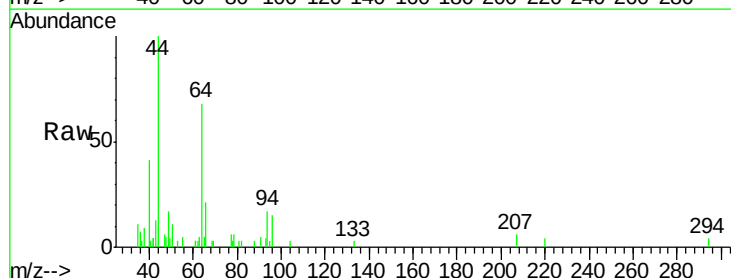
Acq: 4 Mar 2019 16:04

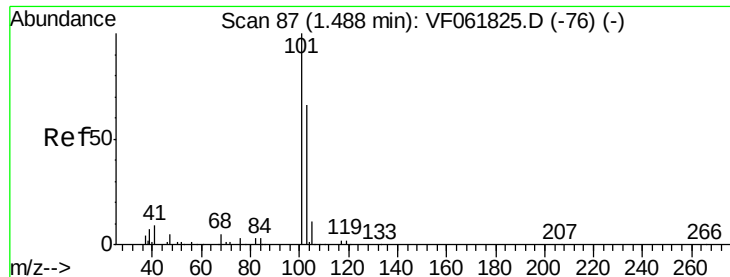
Tgt Ion: 64 Resp: 9022

Ion Ratio Lower Upper

64 100

66 31.4 27.9 41.9





#7

Trichlorofluoromethane

Concen: 3.892 ug/l

RT: 1.49 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

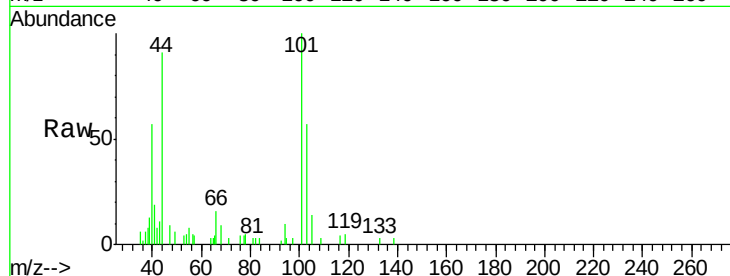
VSTDIC005

Tot Ion:101 Resp: 17202

Ion Ratio Lower Upper

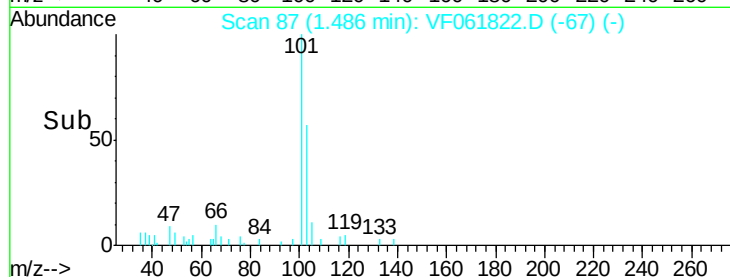
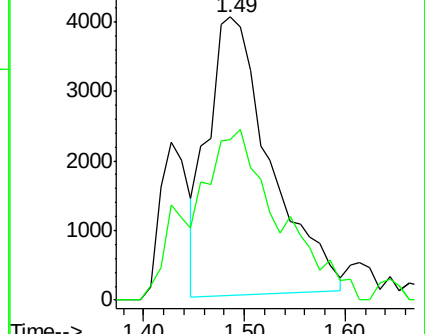
101 100

103 56.9 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 4.695 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF061822.D

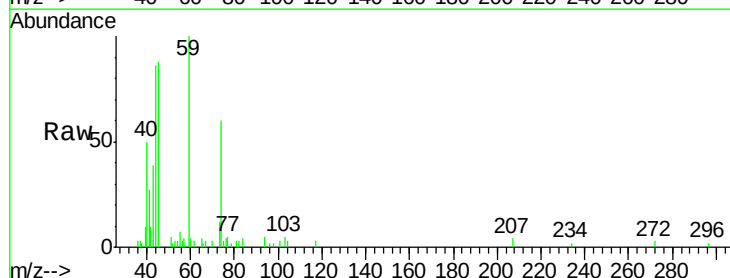
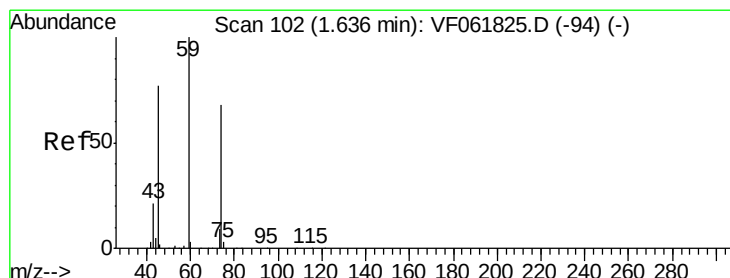
Acq: 4 Mar 2019 16:04

Tgt Ion: 74 Resp: 5229

Ion Ratio Lower Upper

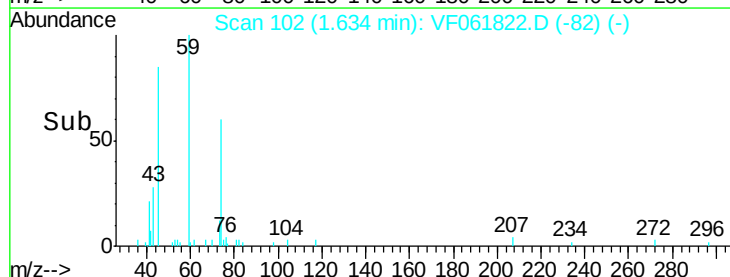
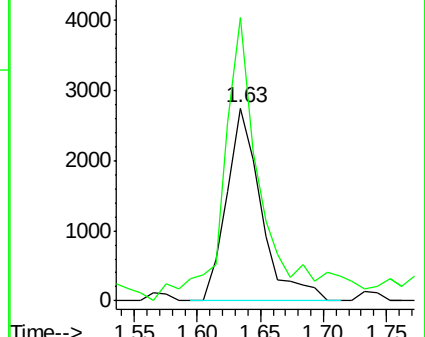
74 100

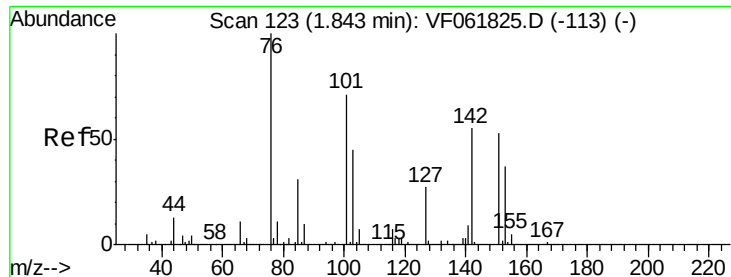
45 146.8 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.435 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

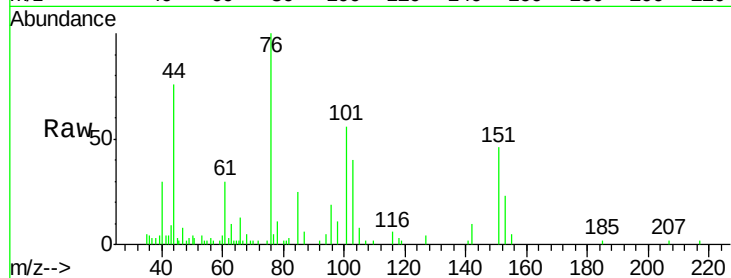
Tot Ion:101 Resp: 17328

Ion Ratio Lower Upper

101 100

85 45.2 29.8 44.6#

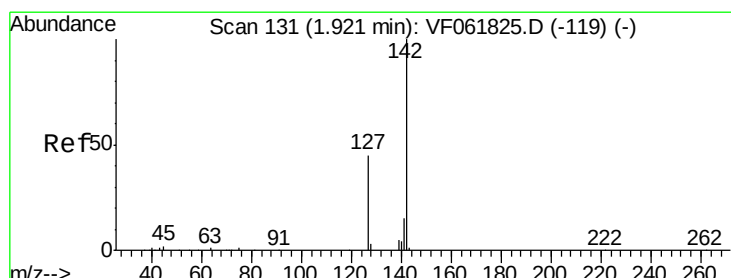
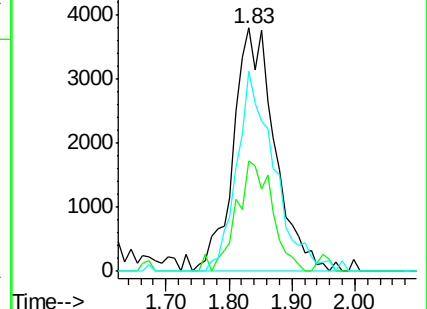
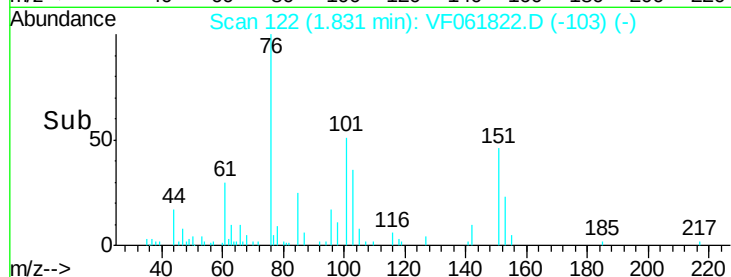
151 82.0 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 4.213 ug/l

RT: 1.92 min Scan# 131

Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

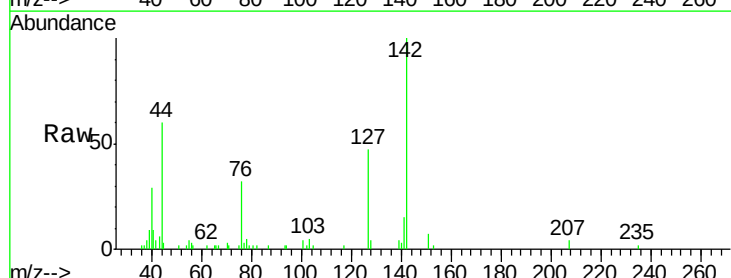
Tgt Ion:142 Resp: 25657

Ion Ratio Lower Upper

142 100

127 46.7 36.6 55.0

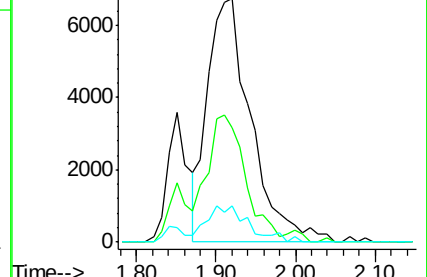
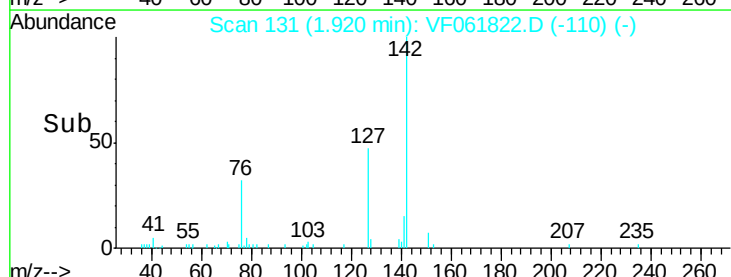
141 14.7 11.0 16.6

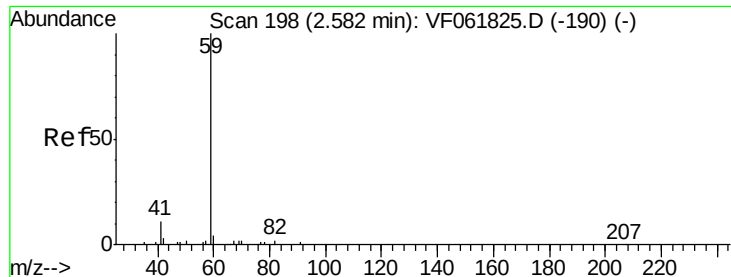


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



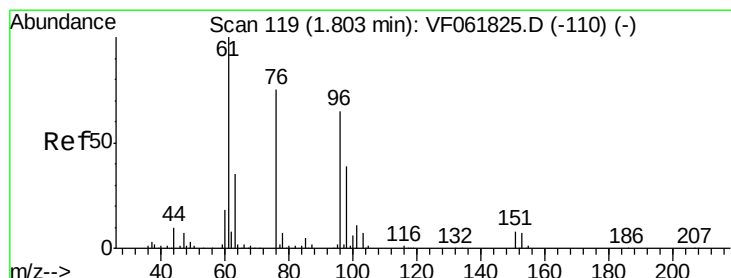
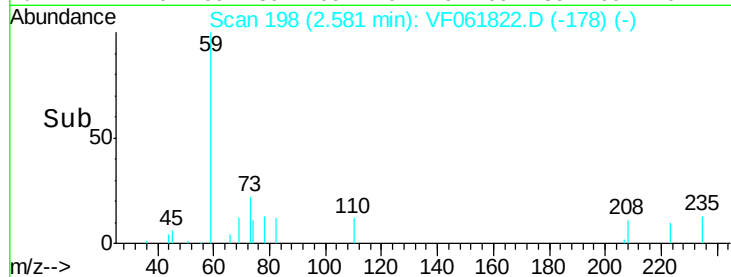
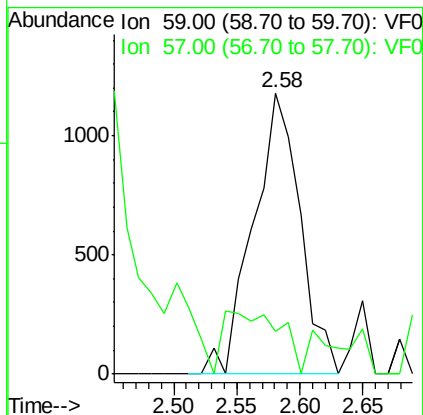
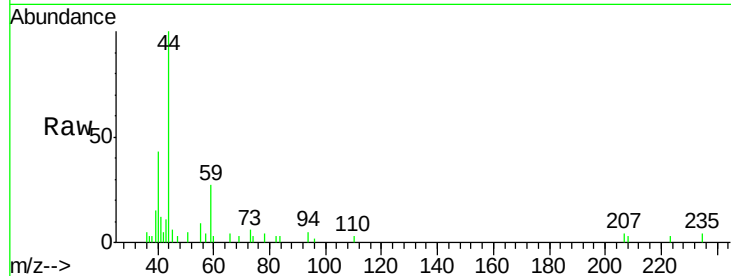


#11

Tert butyl alcohol
 Concen: 21.889 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Instrument :
 MSVOA_F
 ClientSampled :
 VSTDIC005

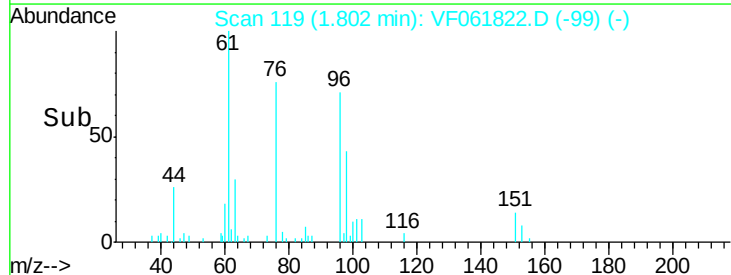
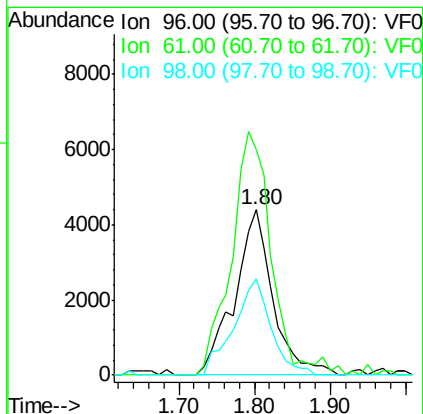
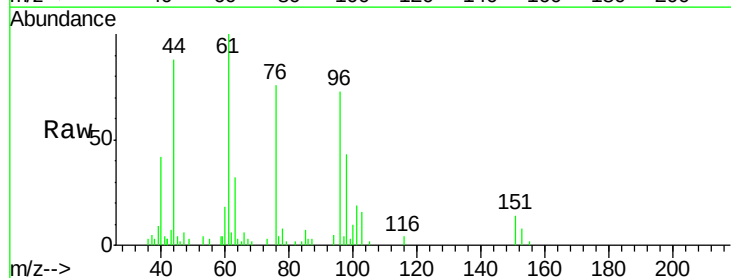
Tot Ion: 59 Resp: 3039
 Ion Ratio Lower Upper
 59 100
 57 15.3 12.5 18.7

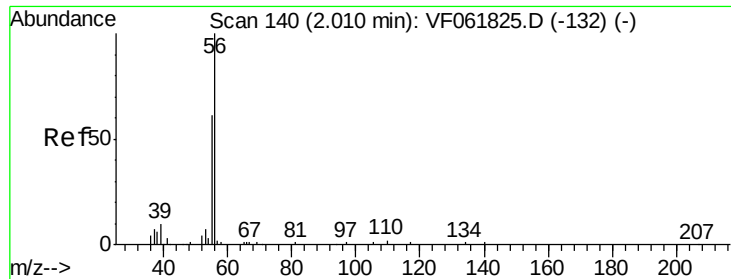


#12

1,1-Dichloroethene
 Concen: 5.518 ug/l
 RT: 1.80 min Scan# 119
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion: 96 Resp: 15468
 Ion Ratio Lower Upper
 96 100
 61 136.6 122.6 184.0
 98 58.1 47.2 70.8





#13

Acrolein

Concen: 29.428 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

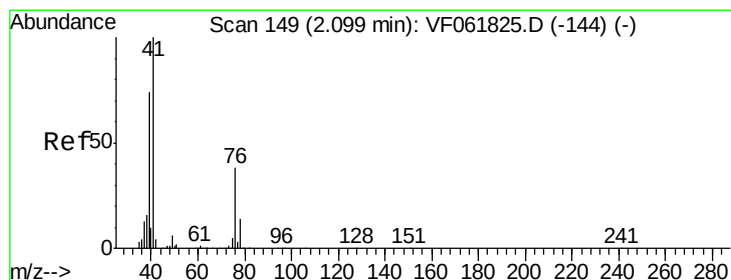
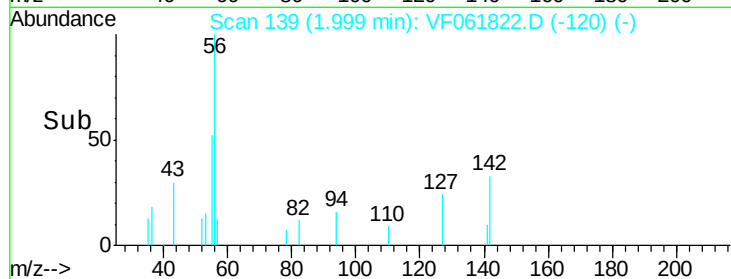
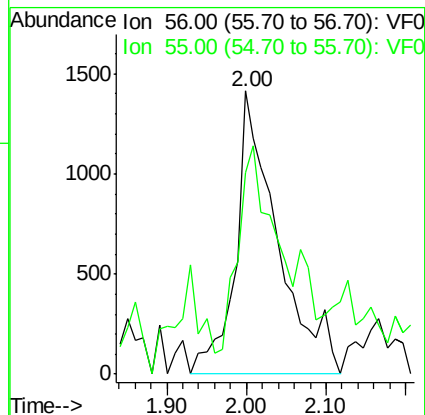
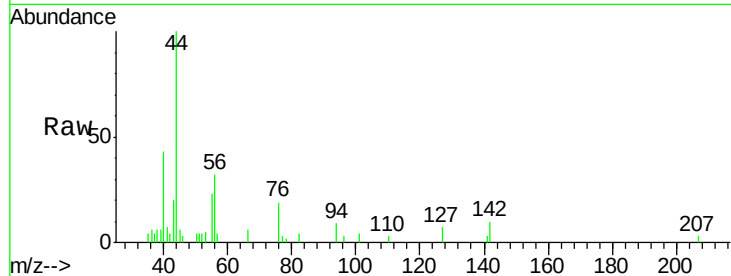
VSTDIC005

Tot Ion: 56 Resp: 5135

Ion Ratio Lower Upper

56 100

55 71.1 55.0 82.6



#14

Allyl chloride

Concen: 4.930 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

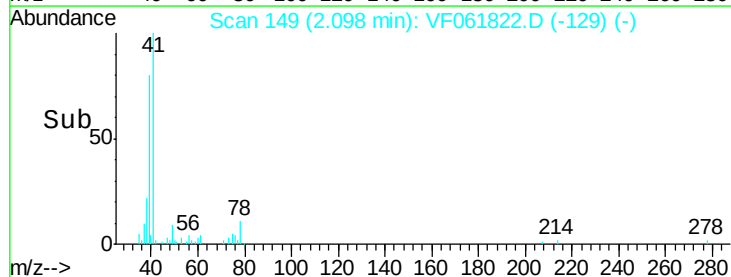
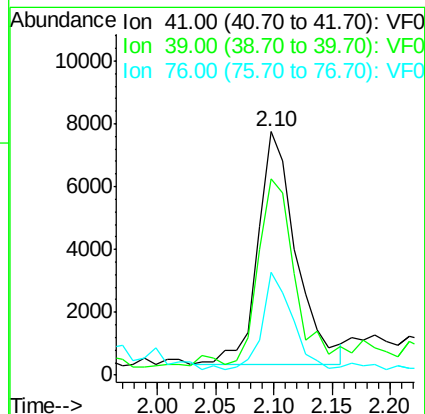
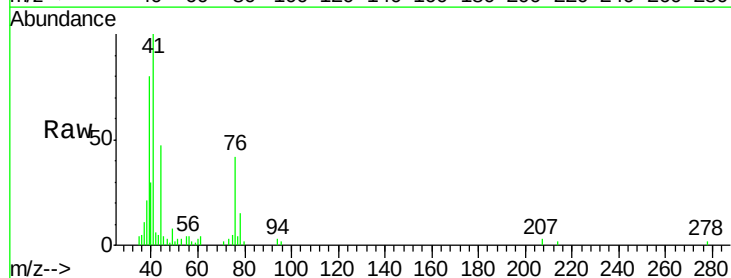
Tgt Ion: 41 Resp: 16957

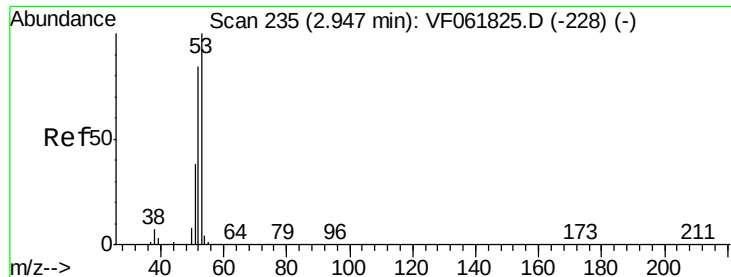
Ion Ratio Lower Upper

41 100

39 80.4 61.6 92.4

76 42.3 30.3 45.5





#15

Acrylonitrile

Concen: 24.214 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

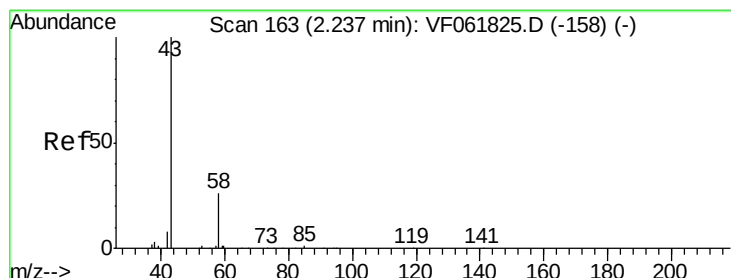
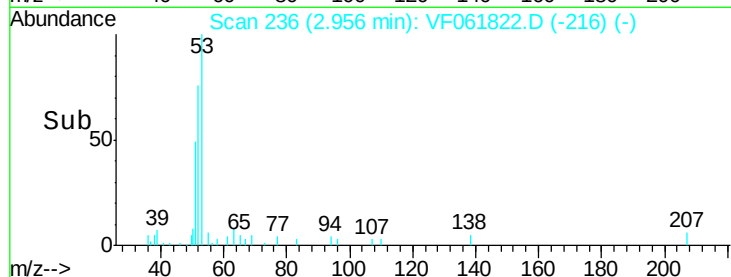
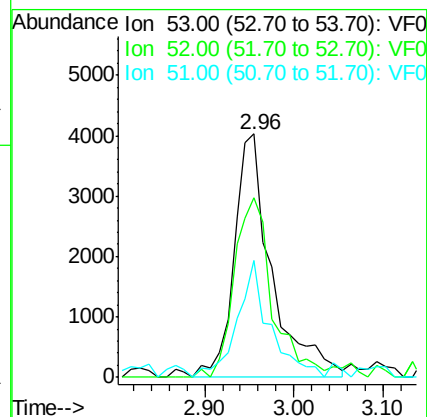
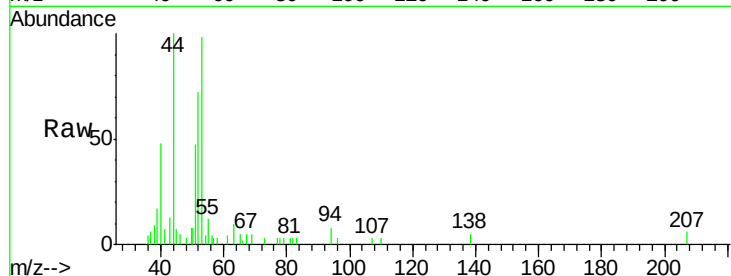
MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 53 Resp: 11924

Ion	Ratio	Lower	Upper
53	100		
52	73.9	64.6	97.0
51	47.8	29.8	44.8#



#16

Acetone

Concen: 27.777 ug/l

RT: 2.25 min Scan# 164

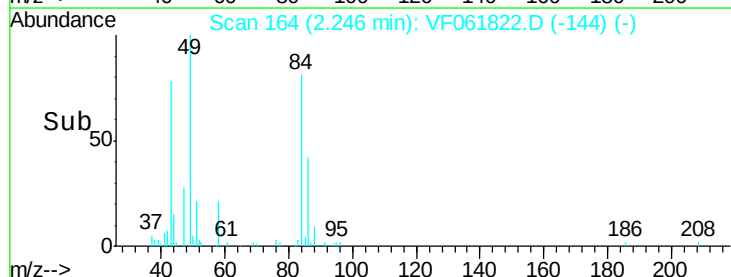
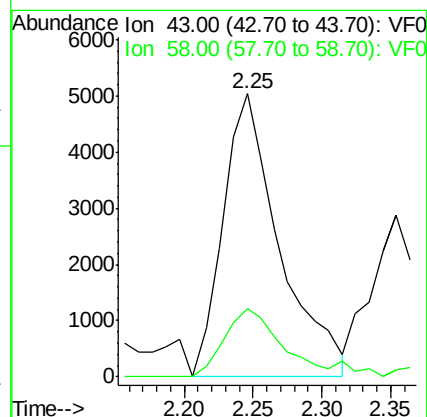
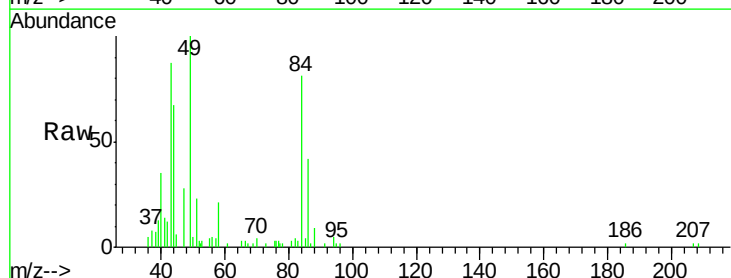
Delta R.T. 0.00 min

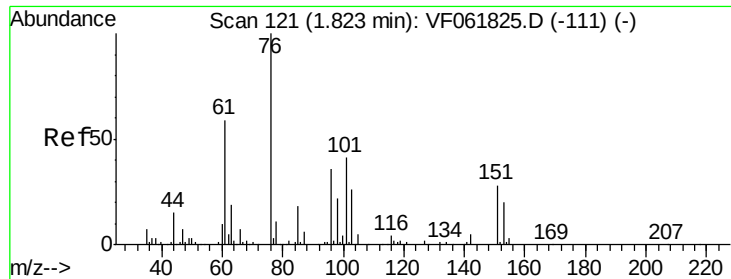
Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion: 43 Resp: 14297

Ion	Ratio	Lower	Upper
43	100		
58	24.2	22.9	34.3

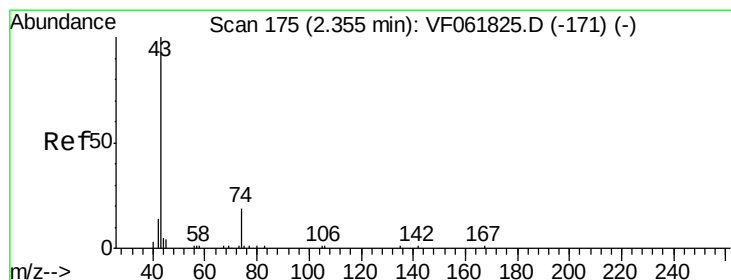
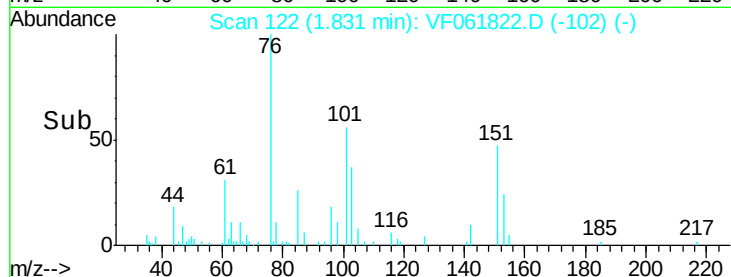
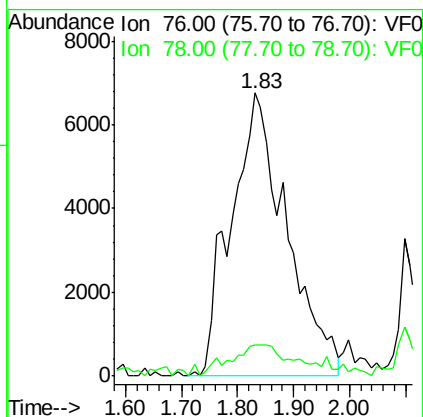
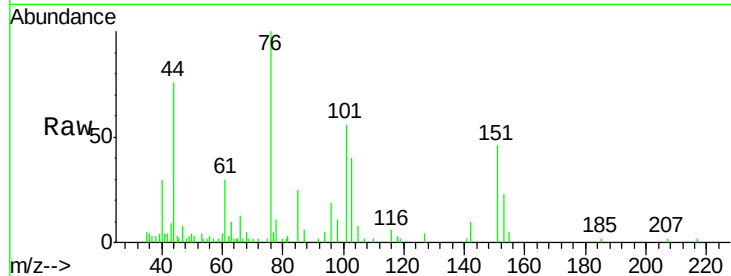




#17
Carbon Disulfide
Concen: 5.288 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

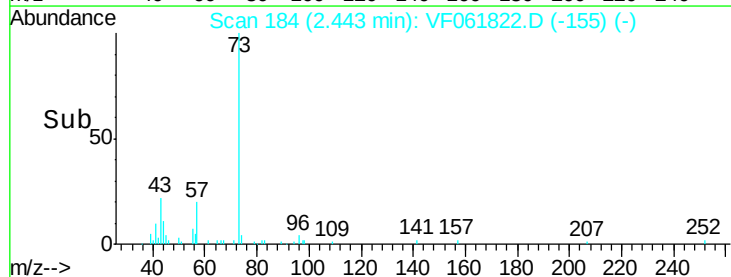
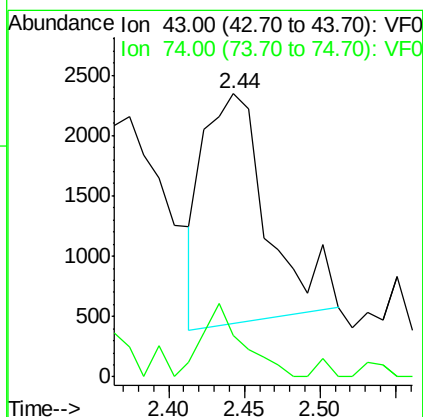
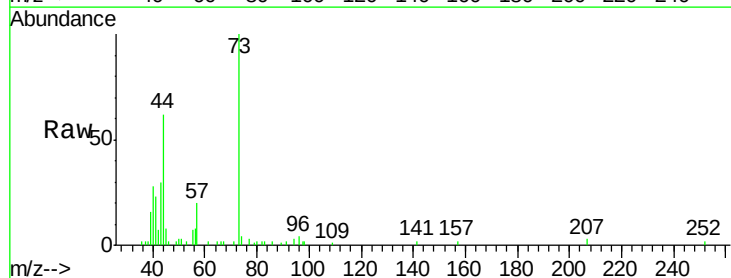
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

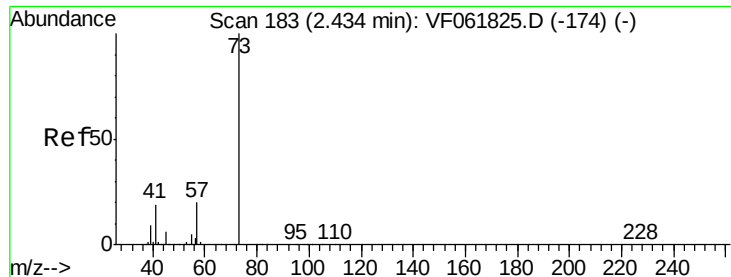
Tot Ion: 76 Resp: 46596
Ion Ratio Lower Upper
76 100
78 11.1 7.9 11.9



#18
Methyl Acetate
Concen: 4.803 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.09 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 43 Resp: 5569
Ion Ratio Lower Upper
43 100
74 14.8 14.6 21.8



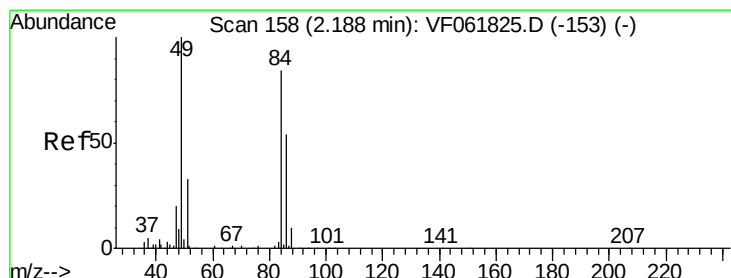
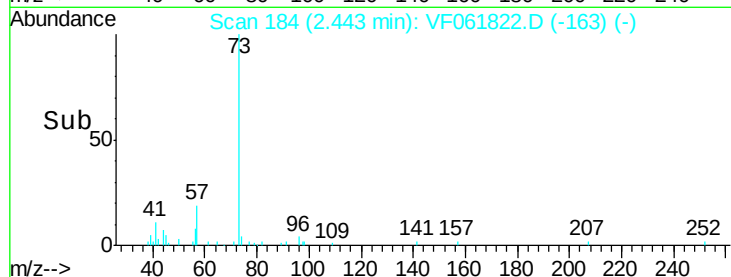
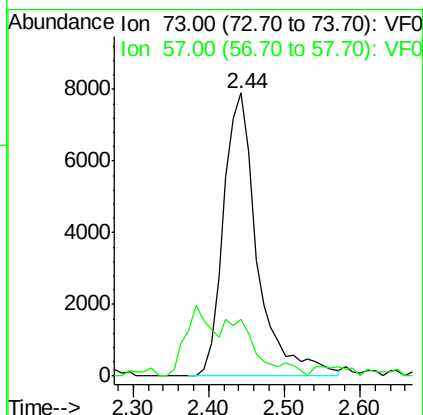
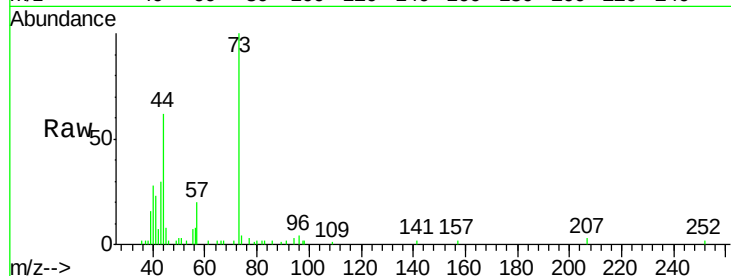


#19

Methyl tert-butyl Ether
 Concen: 5.120 ug/l
 RT: 2.44 min Scan# 184
 Delta R.T. 0.01 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

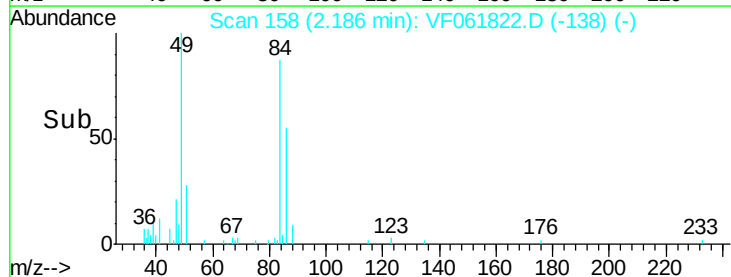
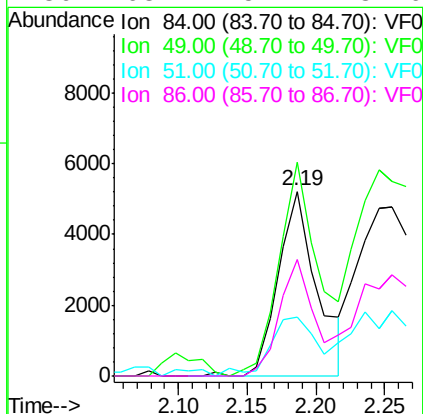
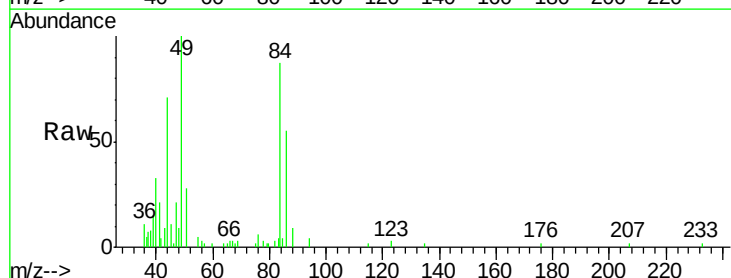
Tot Ion: 73 Resp: 24529
 Ion Ratio Lower Upper
 73 100
 57 20.2 15.8 23.8

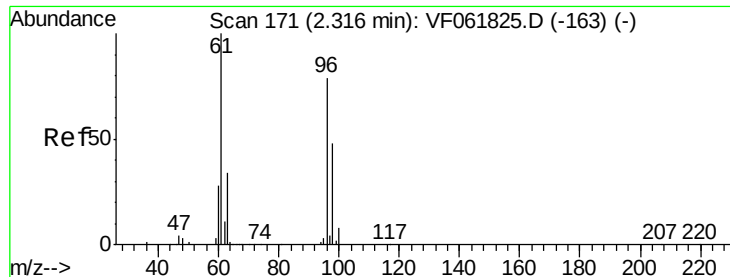


#20

Methylene Chloride
 Concen: 3.268 ug/l
 RT: 2.19 min Scan# 158
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion: 84 Resp: 10161
 Ion Ratio Lower Upper
 84 100
 49 115.6 101.8 152.8
 51 31.8 31.1 46.7
 86 63.2 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 5.225 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

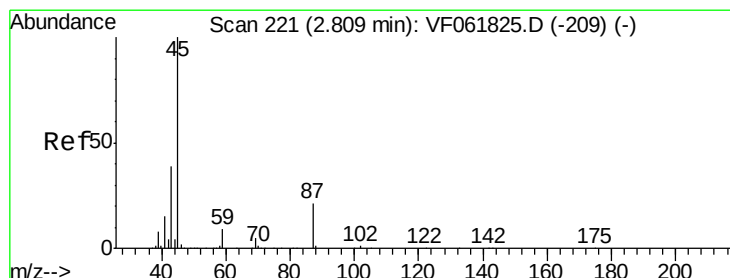
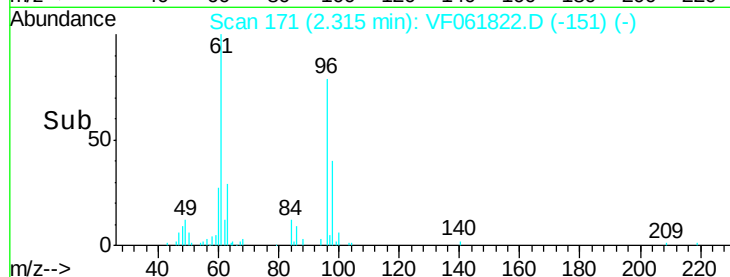
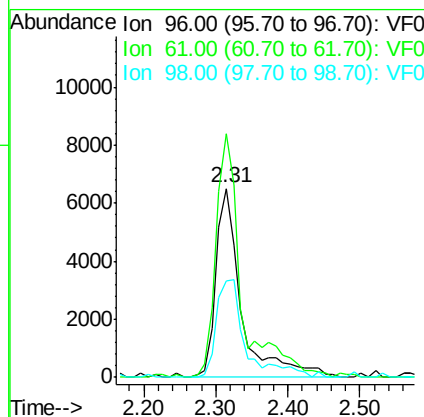
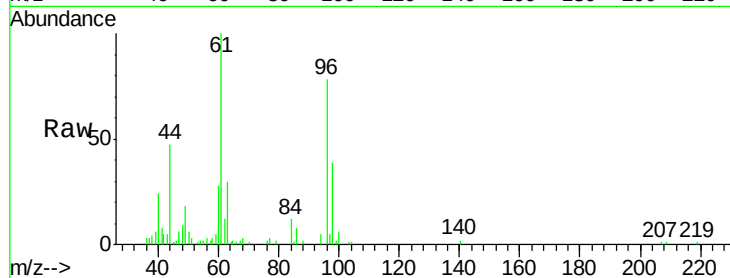
Tot Ion: 96 Resp: 15922

Ion Ratio Lower Upper

96 100

61 128.9 108.2 162.4

98 50.7 52.2 78.2#



#22

Diisopropyl ether

Concen: 5.053 ug/l

RT: 2.81 min Scan# 221

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion: 45 Resp: 41723

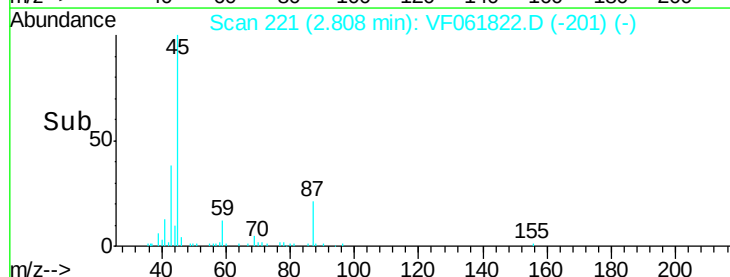
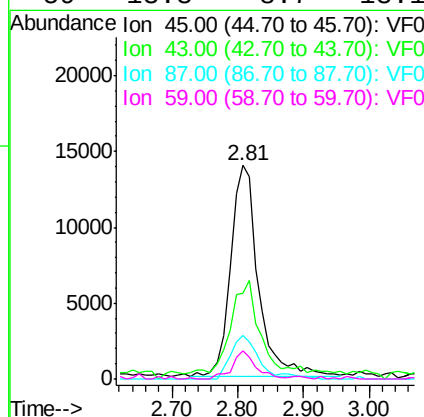
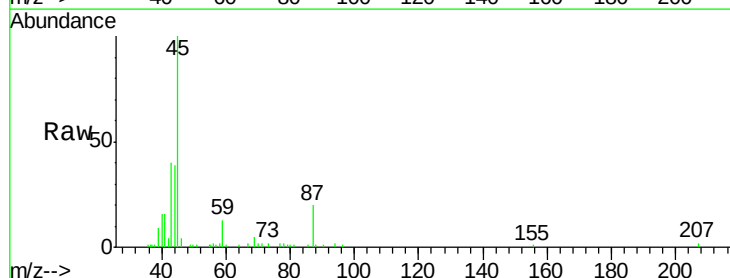
Ion Ratio Lower Upper

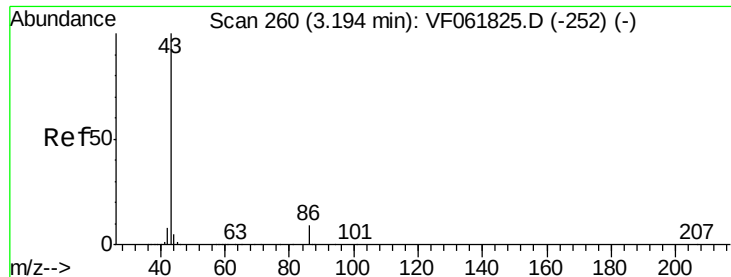
45 100

43 40.2 31.4 47.2

87 20.2 16.3 24.5

59 13.3 8.7 13.1#





#23

Vinyl Acetate

Concen: 22.127 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

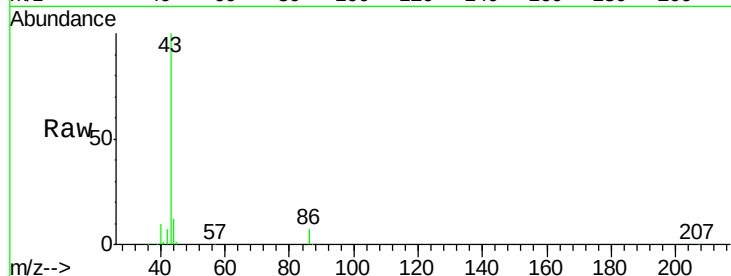
VSTDIC005

Tot Ion: 43 Resp: 89237

Ion Ratio Lower Upper

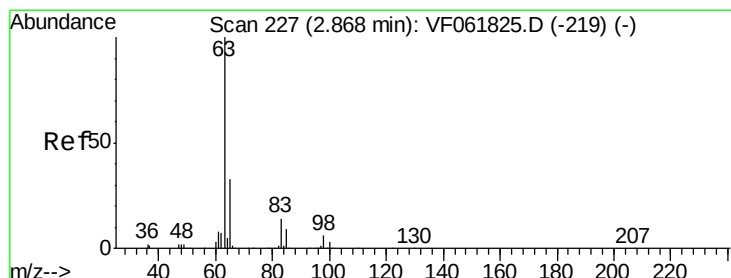
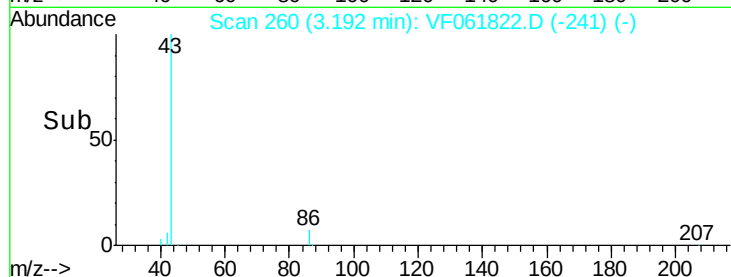
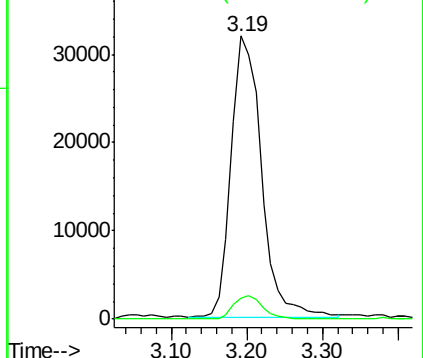
43 100

86 7.3 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 4.853 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

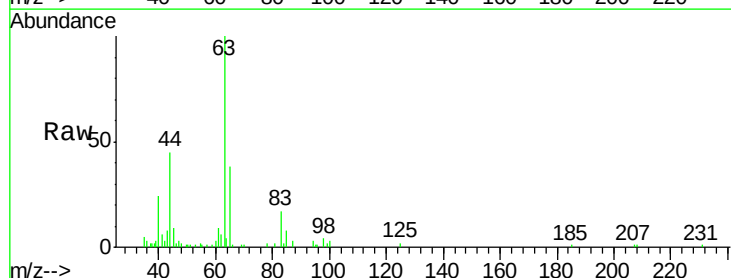
Tgt Ion: 63 Resp: 24251

Ion Ratio Lower Upper

63 100

98 4.4 2.8 8.3

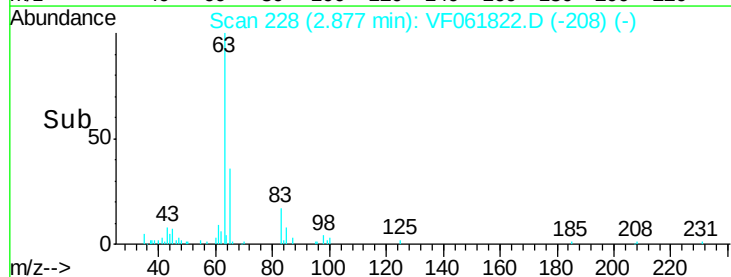
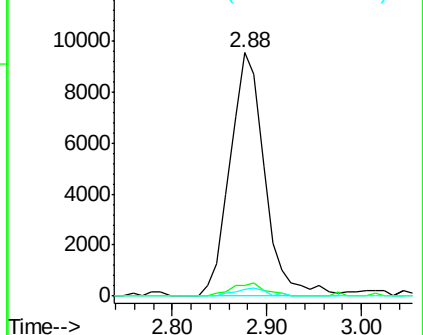
100 2.8 1.8 5.4

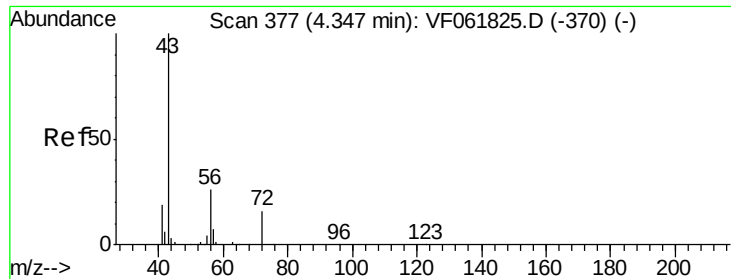


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 22.885 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

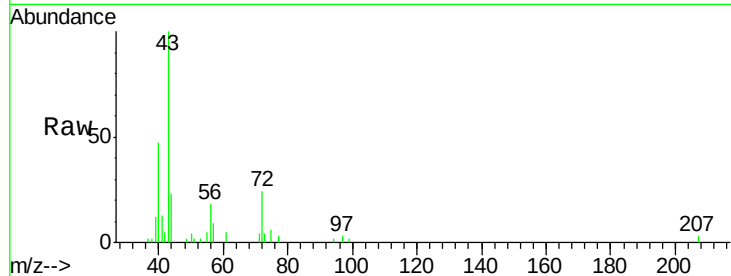
VSTDIC005

Tot Ion: 43 Resp: 25729

Ion Ratio Lower Upper

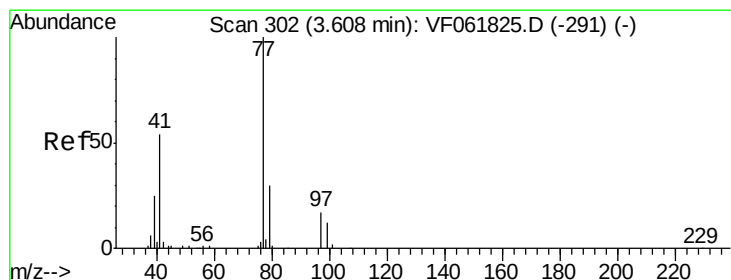
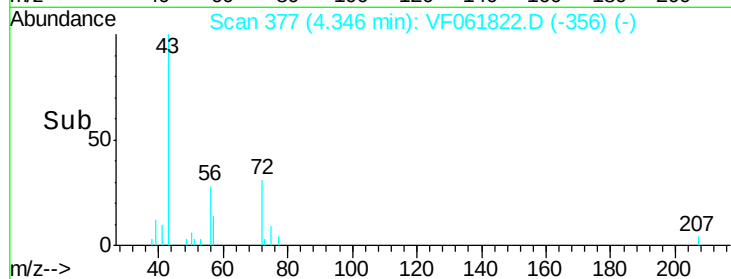
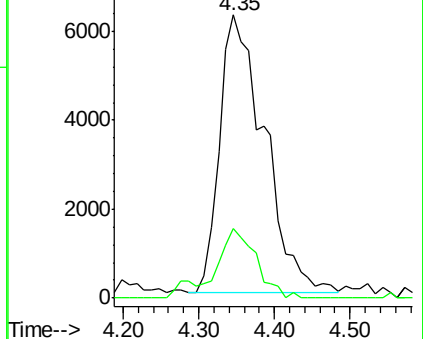
43 100

72 24.5 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 5.618 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.00 min

Lab File: VF061822.D

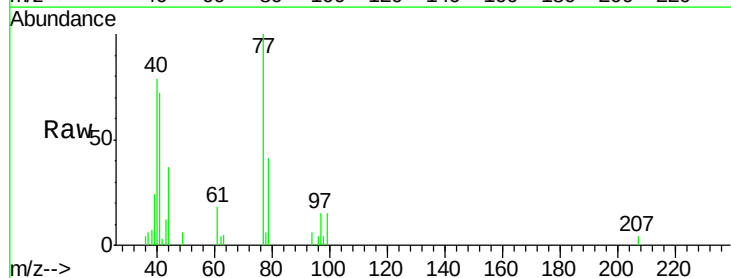
Acq: 4 Mar 2019 16:04

Tgt Ion: 77 Resp: 11892

Ion Ratio Lower Upper

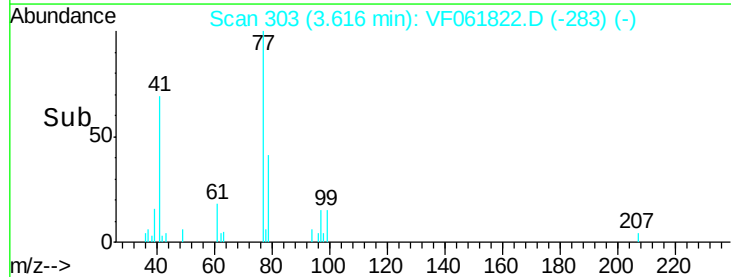
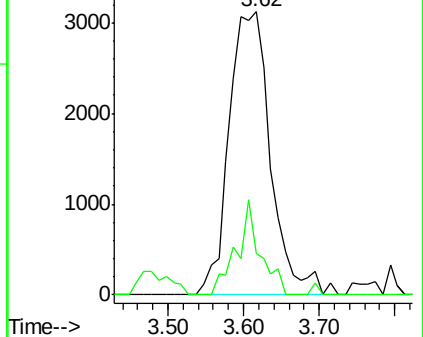
77 100

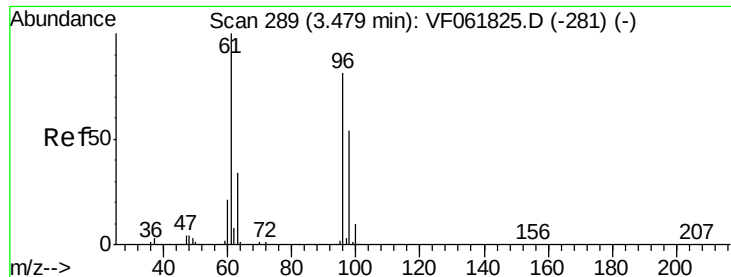
97 14.7 11.7 35.0



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



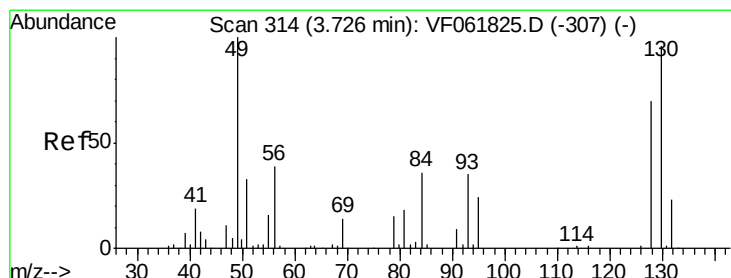
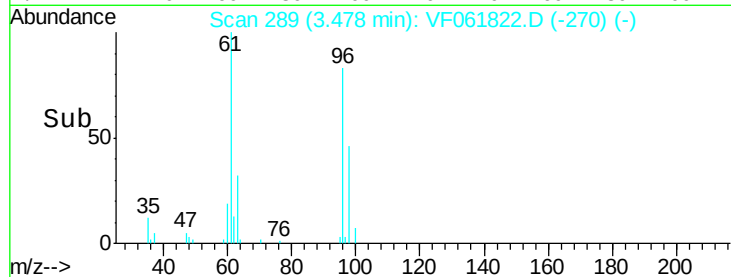
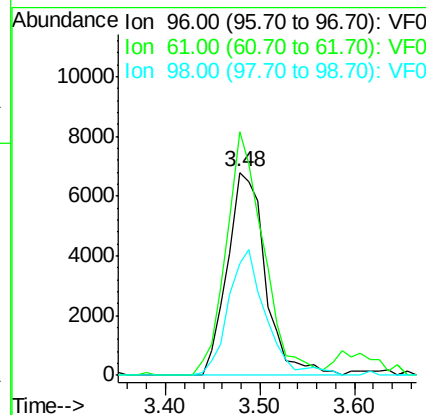
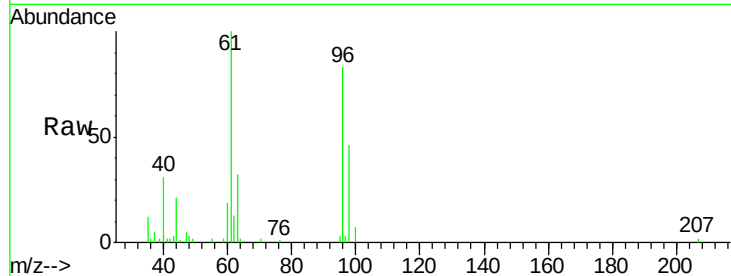


#27

cis-1,2-Dichloroethene
Concen: 4.726 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

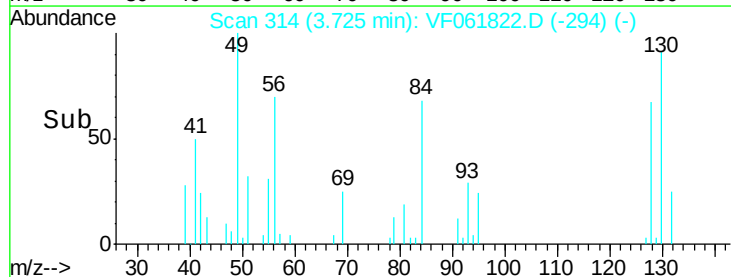
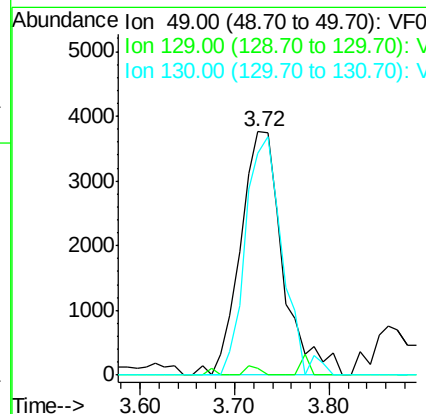
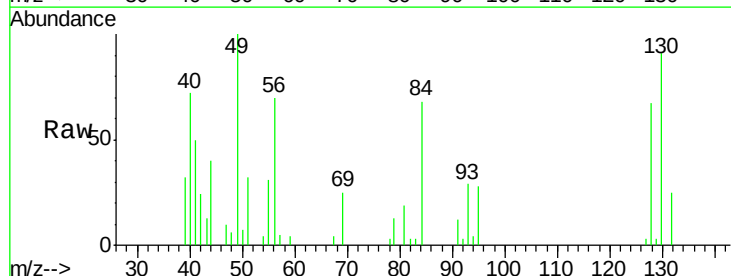
Tot Ion: 96 Resp: 18905
Ion Ratio Lower Upper
96 100
61 119.9 0.0 241.6
98 55.0 0.0 130.2

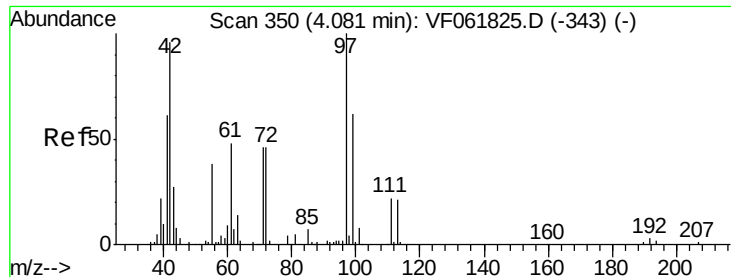


#28

Bromochloromethane
Concen: 4.871 ug/l
RT: 3.72 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 49 Resp: 11679
Ion Ratio Lower Upper
49 100
129 3.0 0.0 3.4
130 91.1 77.7 116.5

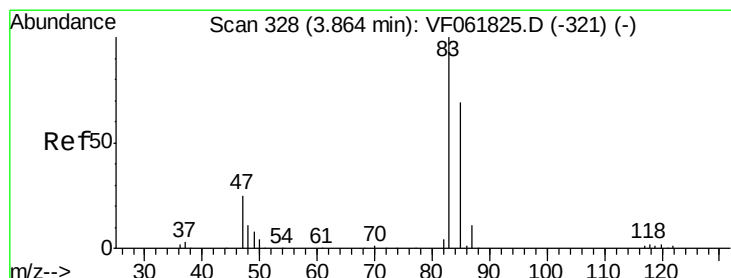
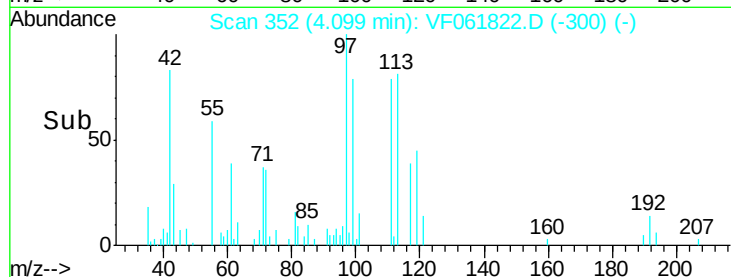
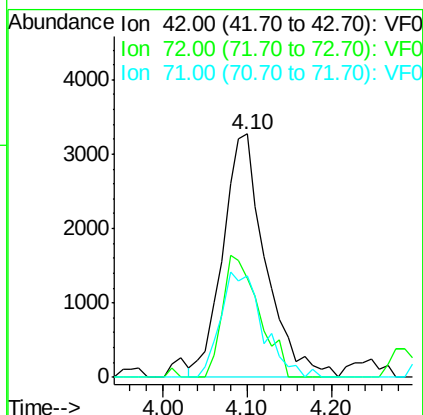
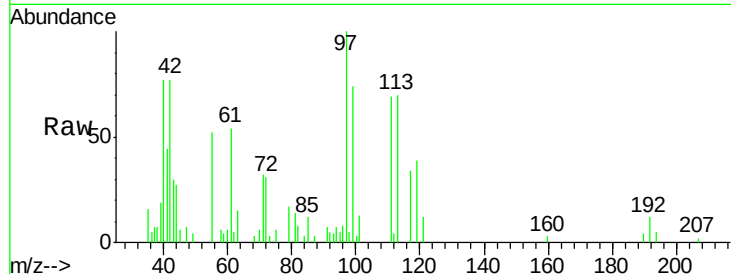




#29
Tetrahydrofuran
Concen: 22.652 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

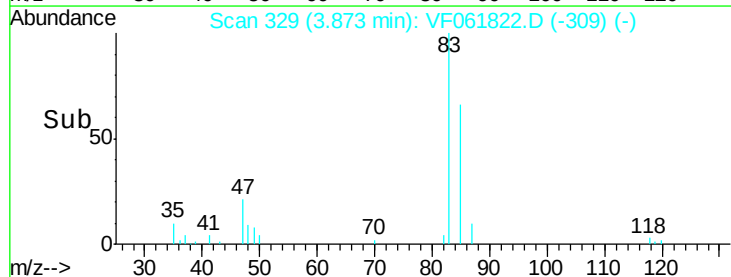
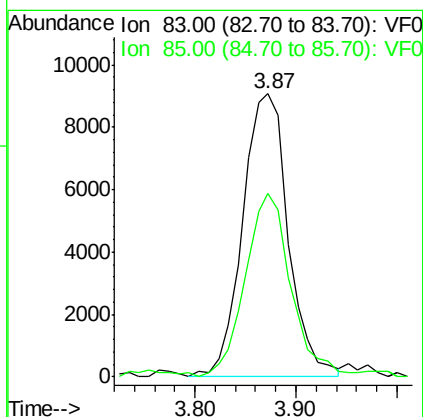
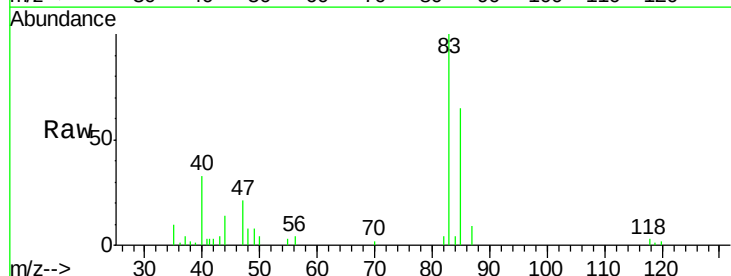
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

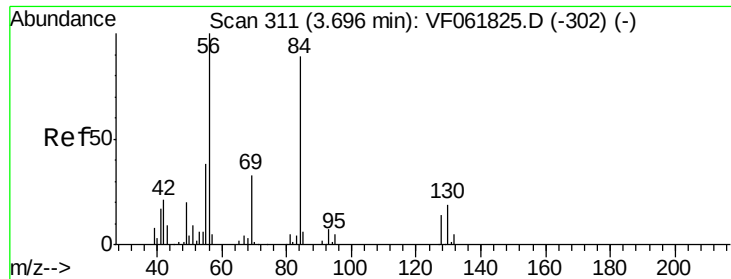
Tot Ion: 42 Resp: 11575
Ion Ratio Lower Upper
42 100
72 42.5 35.2 52.8
71 42.7 32.9 49.3



#30
Chloroform
Concen: 5.020 ug/l
RT: 3.87 min Scan# 329
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 83 Resp: 28528
Ion Ratio Lower Upper
83 100
85 64.9 51.1 76.7

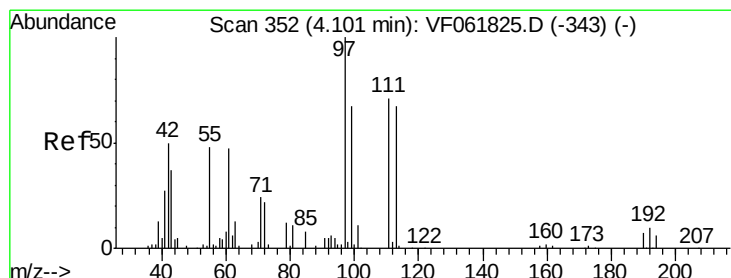
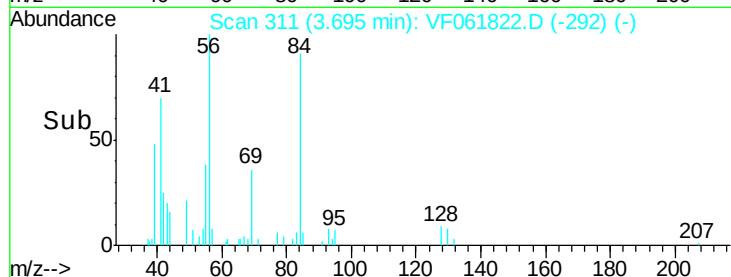
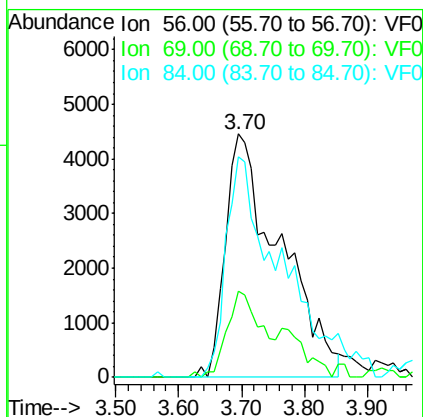
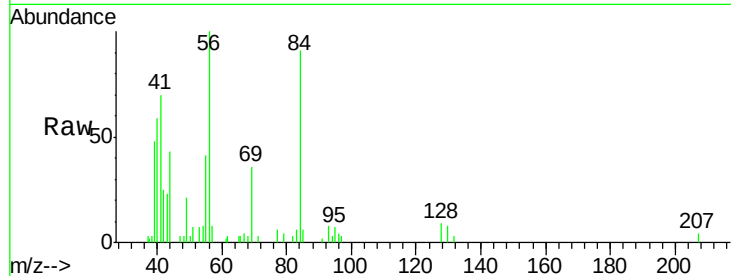




#31
Cyclohexane
Concen: 4.920 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

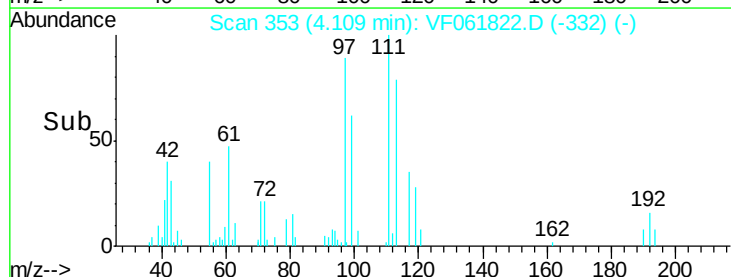
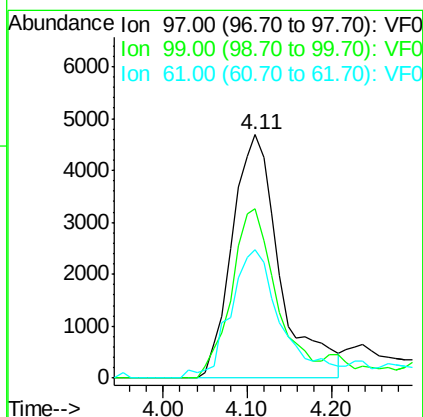
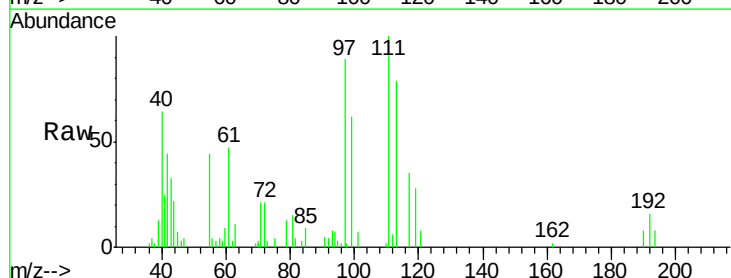
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

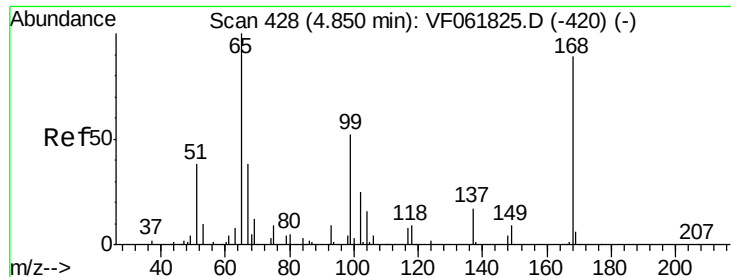
Tot Ion: 56 Resp: 26613
Ion Ratio Lower Upper
56 100
69 35.7 23.8 35.8
84 90.8 68.6 103.0



#32
1,1,1-Trichloroethane
Concen: 5.013 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 97 Resp: 18661
Ion Ratio Lower Upper
97 100
99 68.1 52.2 78.2
61 51.3 39.2 58.8

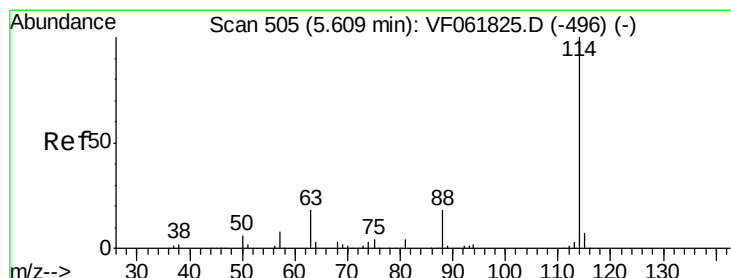
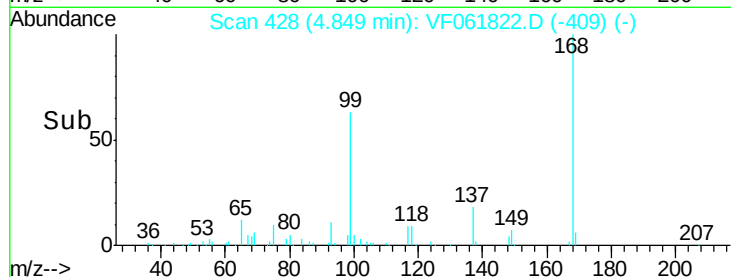
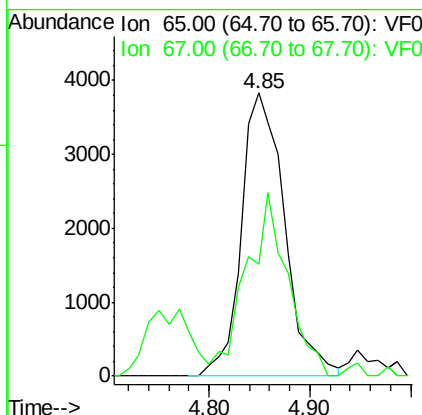
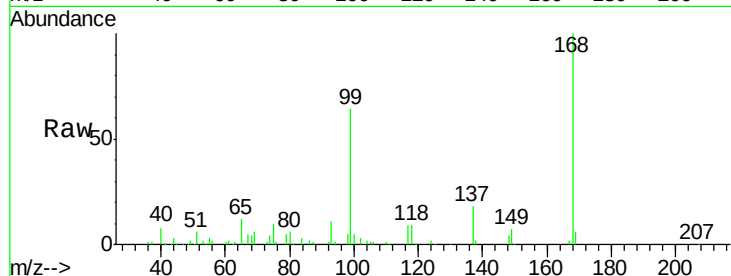




#33
 1,2-Dichloroethane-d4
 Concen: 4.745 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.01 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

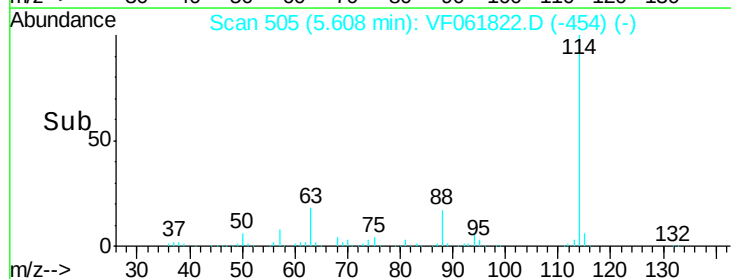
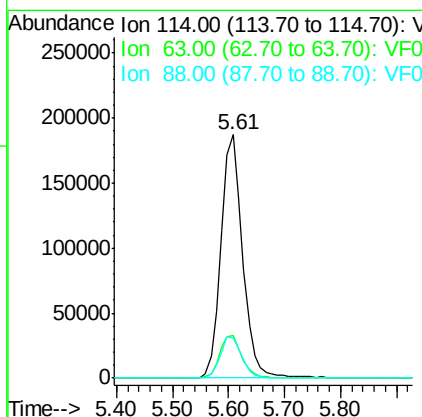
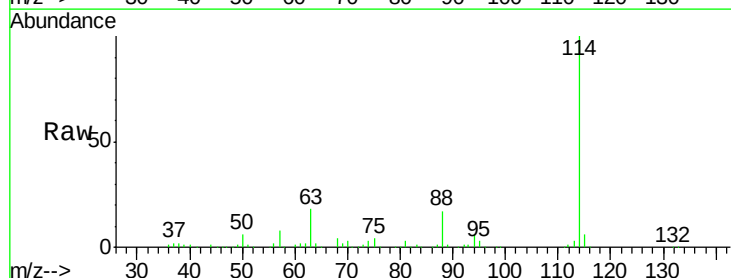
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

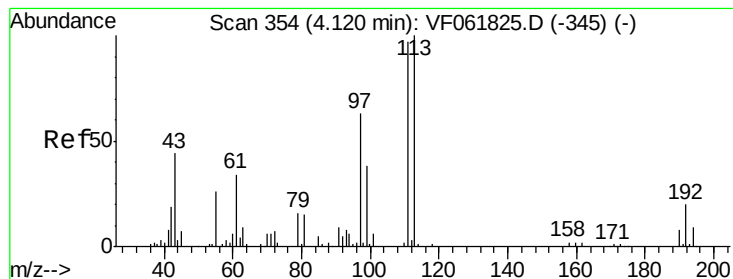
Tot Ion: 65 Resp: 11384
 Ion Ratio Lower Upper
 65 100
 67 39.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion: 114 Resp: 505976
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 36.6
 88 16.7 0.0 34.4





#35

Dibromofluoromethane

Concen: 4.392 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

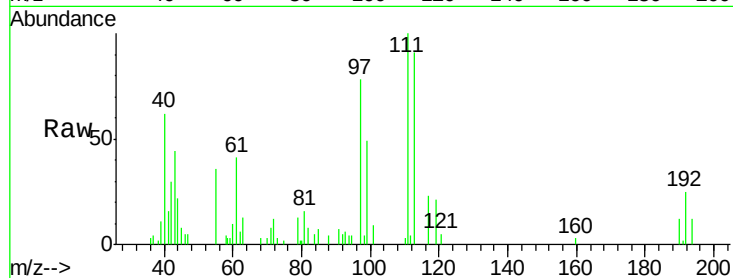
Tot Ion:113 Resp: 16501

Ion Ratio Lower Upper

113 100

111 109.7 78.8 118.2

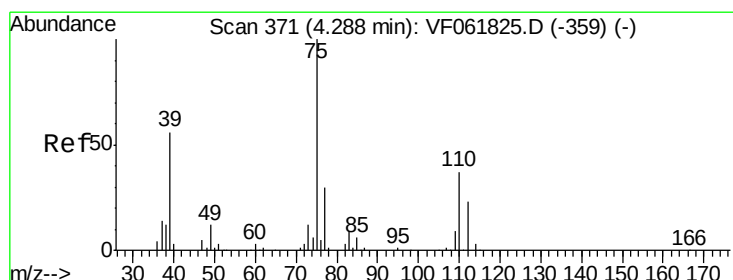
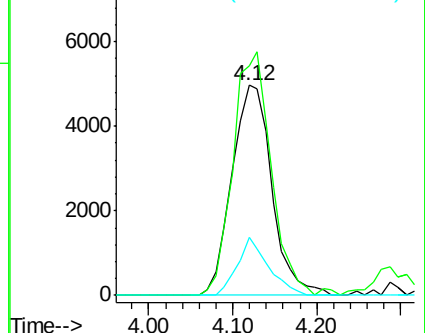
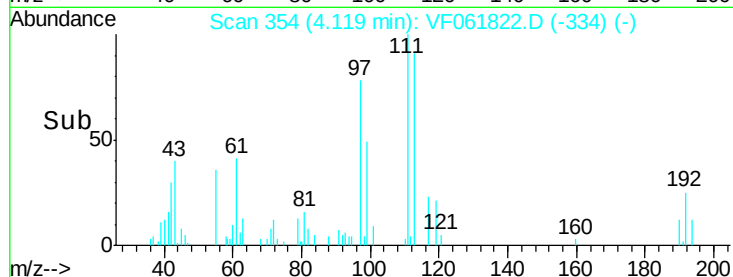
192 27.4 13.4 20.0#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 4.720 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

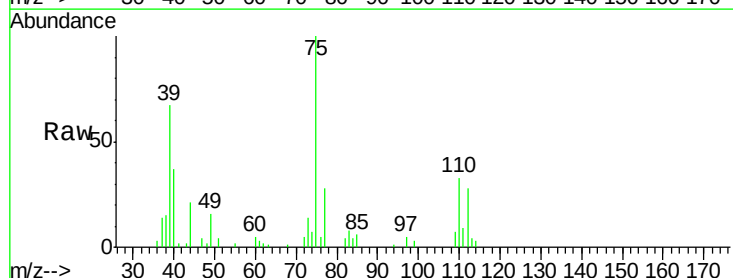
Tgt Ion: 75 Resp: 23660

Ion Ratio Lower Upper

75 100

110 33.1 20.5 61.6

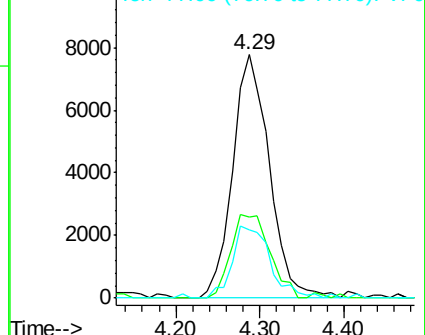
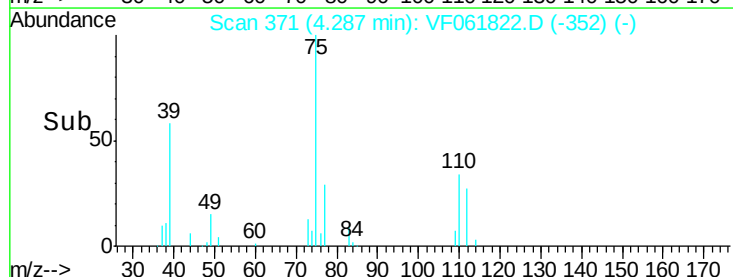
77 28.1 27.0 40.4

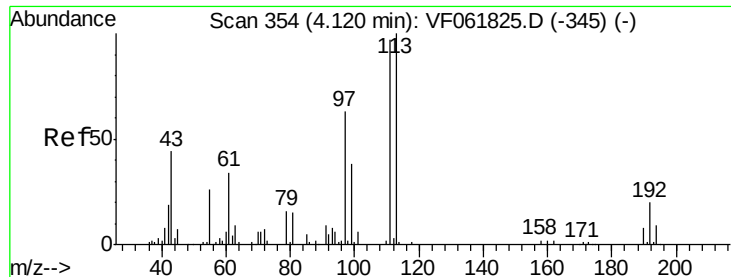


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

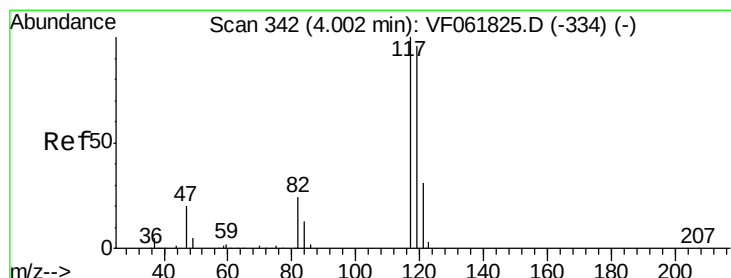
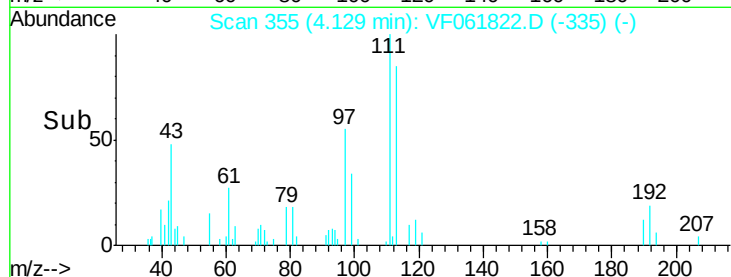
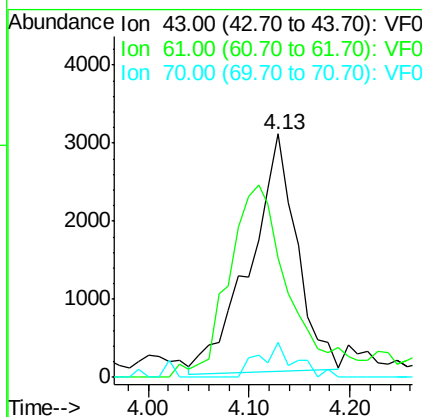
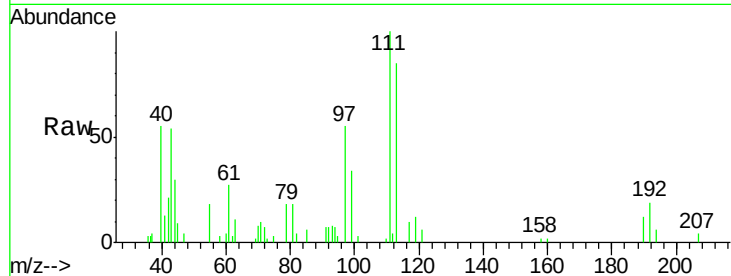




#37
Ethyl Acetate
Concen: 4.209 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

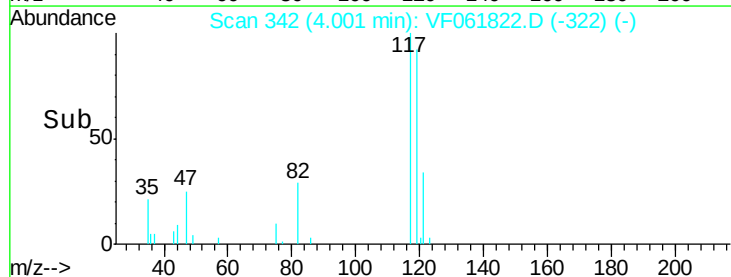
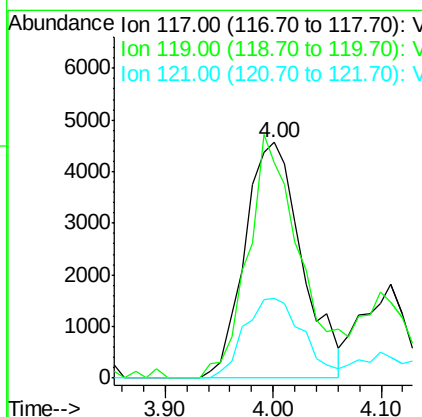
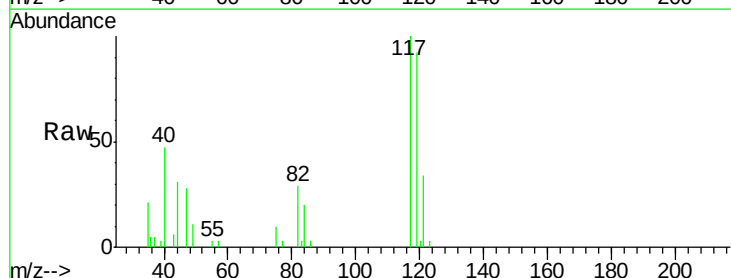
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

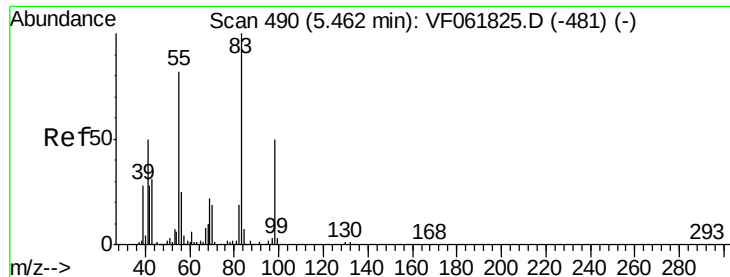
Tot Ion: 43 Resp: 9800
Ion Ratio Lower Upper
43 100
61 49.1 45.7 68.5
70 14.4 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 4.847 ug/l
RT: 4.00 min Scan# 342
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 117 Resp: 16775
Ion Ratio Lower Upper
117 100
119 91.6 75.6 113.4
121 33.8 25.2 37.8

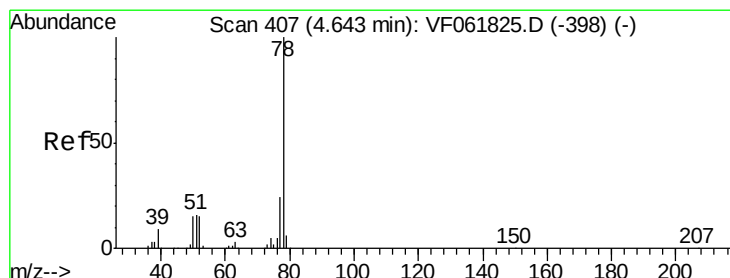
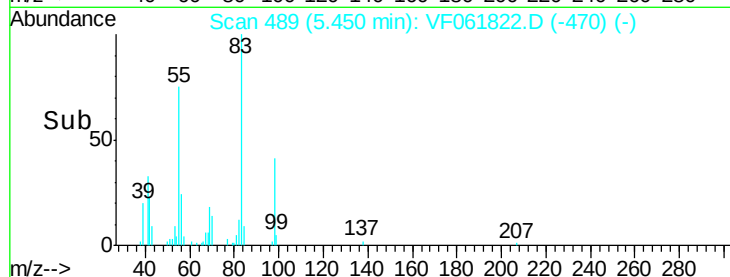
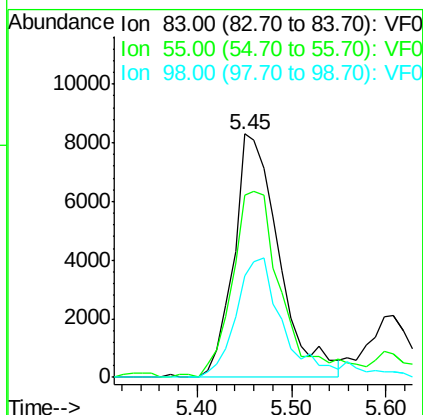
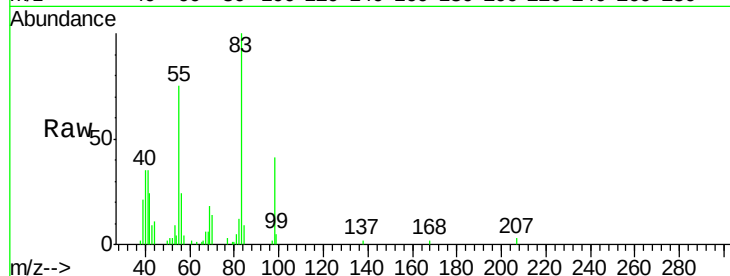




#39
Methylvlcyclohexane
Concen: 4.654 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

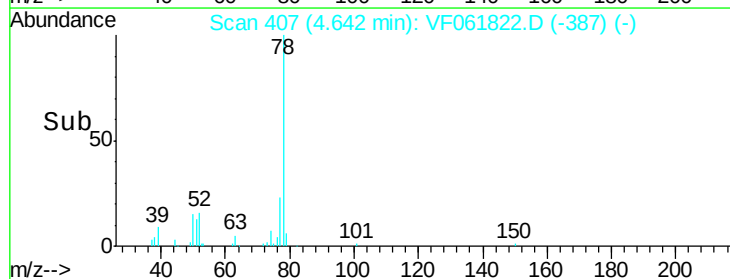
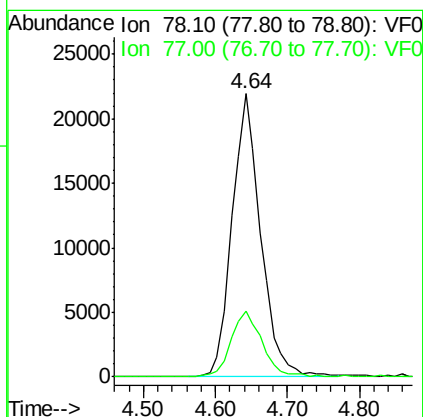
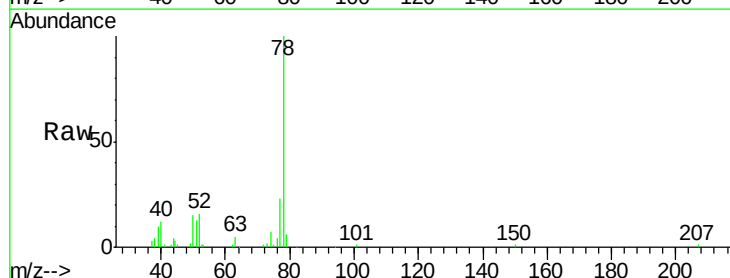
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

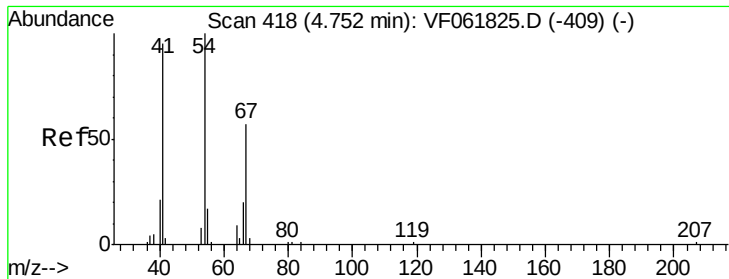
Tot Ion: 83 Resp: 27586
Ion Ratio Lower Upper
83 100
55 74.9 66.6 99.8
98 41.5 40.4 60.6



#40
Benzene
Concen: 4.641 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 78 Resp: 60852
Ion Ratio Lower Upper
78 100
77 23.3 19.0 28.6





#41

Methacrylonitrile

Concen: 4.755 ug/l

RT: 4.76 min Scan# 419

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 41 Resp: 5661

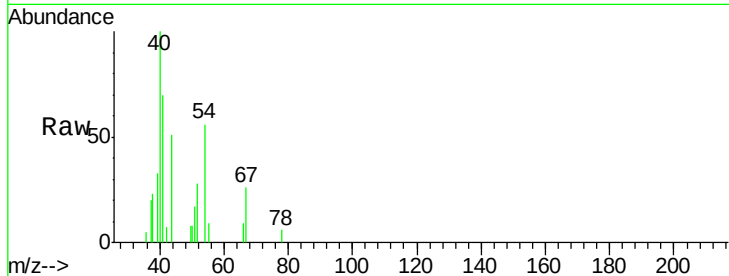
Ion Ratio Lower Upper

41 100

39 46.9 45.3 67.9

67 36.7 49.3 73.9#

52 40.4 32.6 49.0

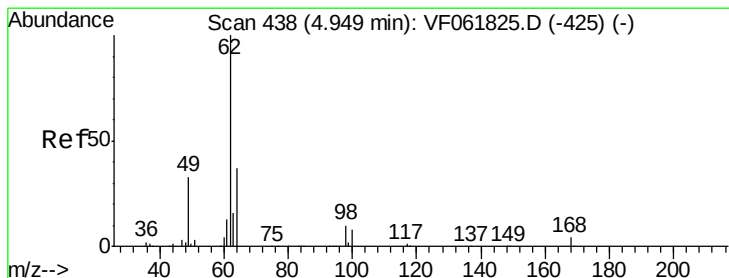
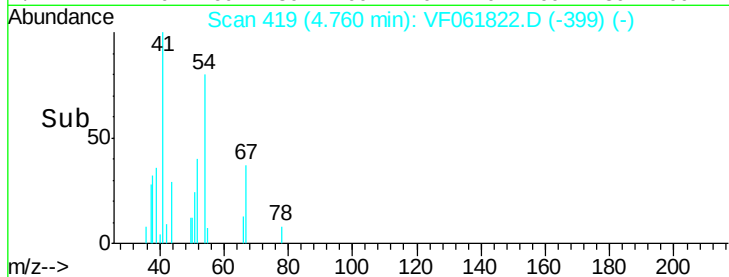
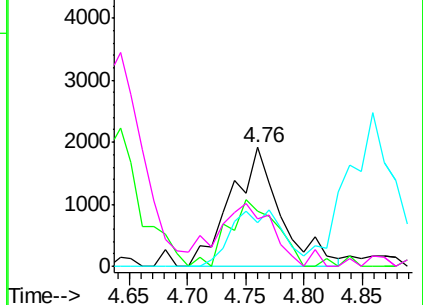


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 4.278 ug/l

RT: 4.95 min Scan# 438

Delta R.T. -0.01 min

Lab File: VF061822.D

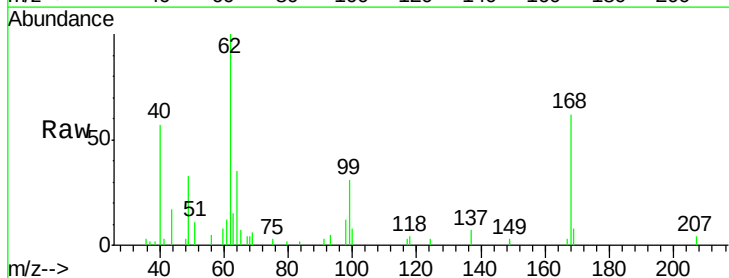
Acq: 4 Mar 2019 16:04

Tgt Ion: 62 Resp: 13416

Ion Ratio Lower Upper

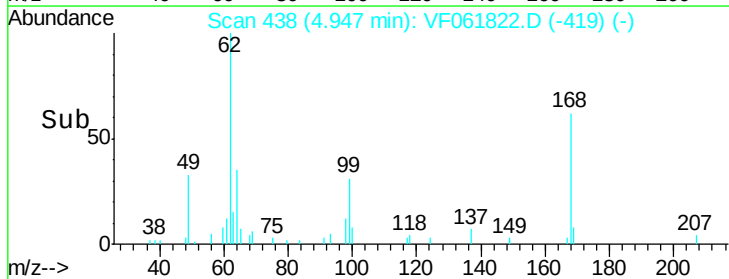
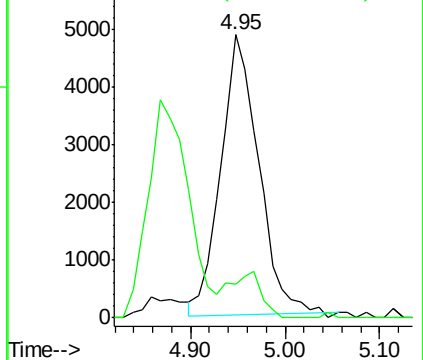
62 100

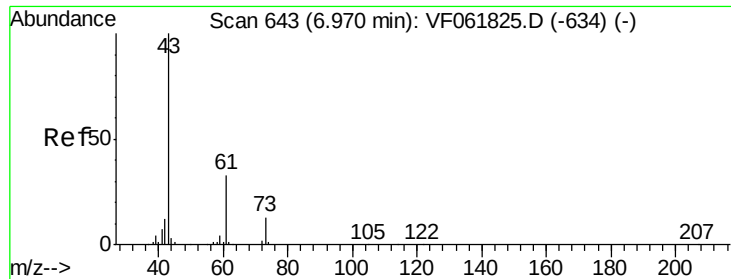
98 12.2 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 4.498 ug/l

RT: 6.97 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

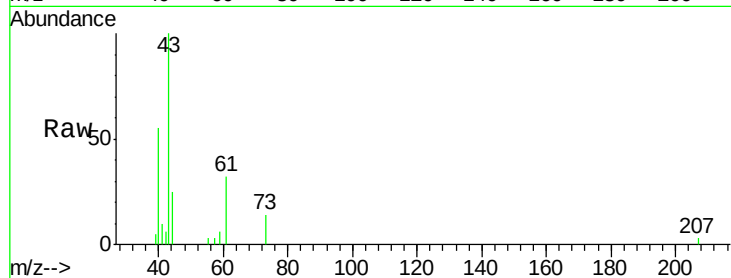
Tot Ion: 43 Resp: 12394

Ion Ratio Lower Upper

43 100

61 31.5 25.8 38.6

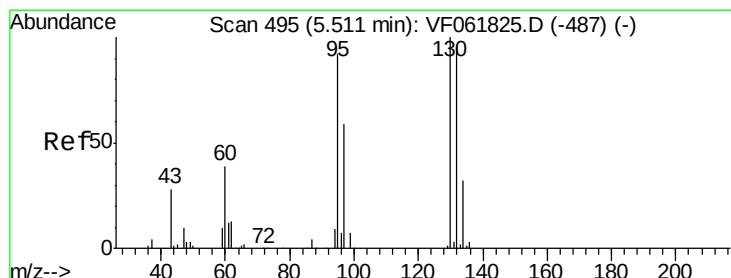
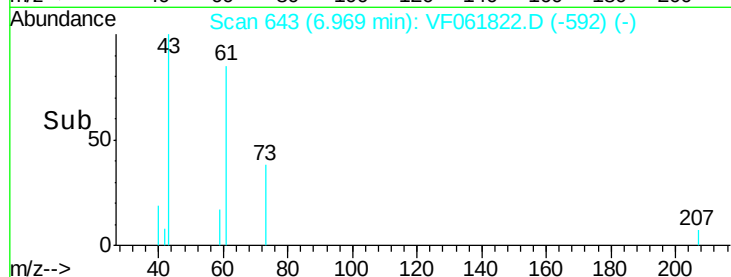
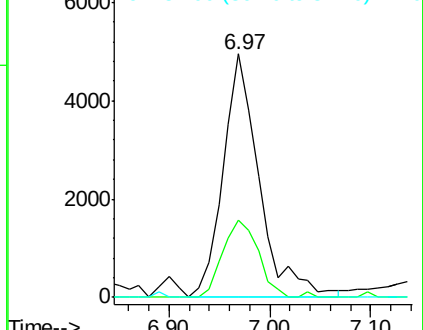
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 4.689 ug/l

RT: 5.51 min Scan# 495

Delta R.T. 0.00 min

Lab File: VF061822.D

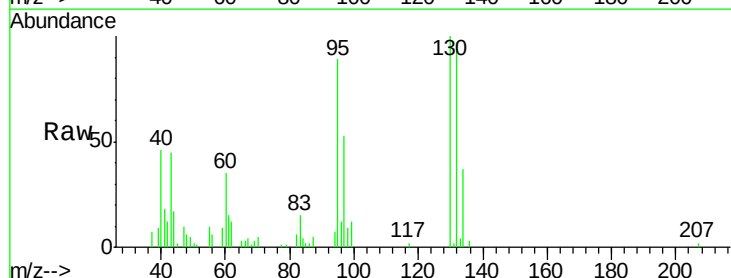
Acq: 4 Mar 2019 16:04

Tgt Ion:130 Resp: 19881

Ion Ratio Lower Upper

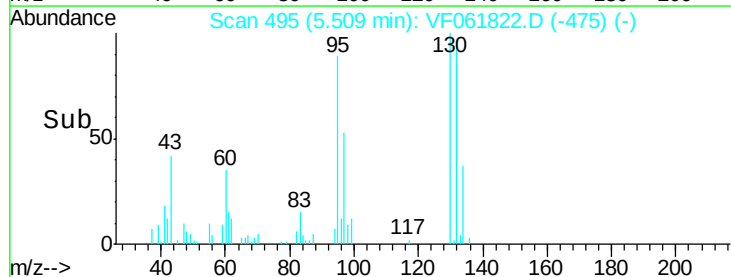
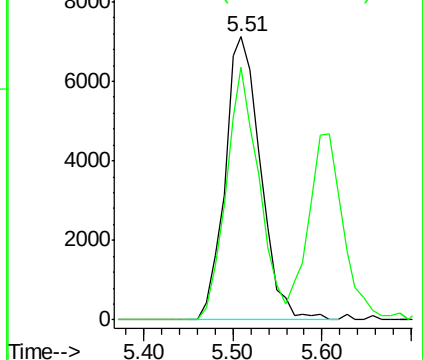
130 100

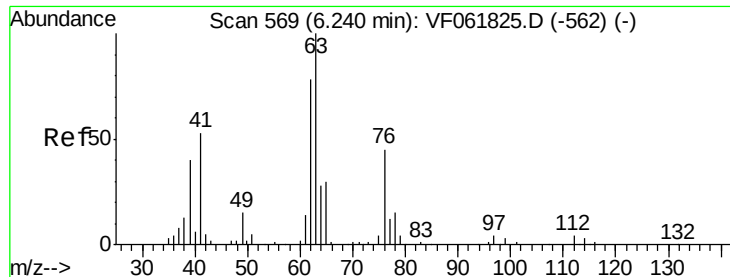
95 89.2 0.0 179.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 4.662 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

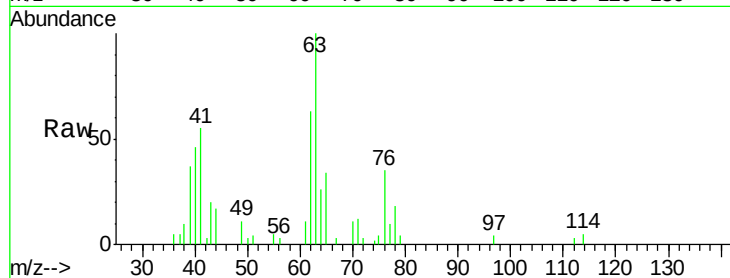
VSTDIC005

Tot Ion: 63 Resp: 14775

Ion Ratio Lower Upper

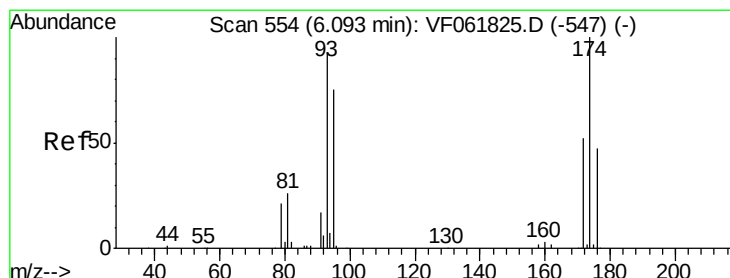
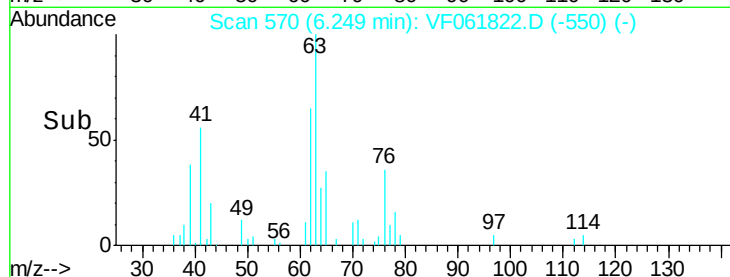
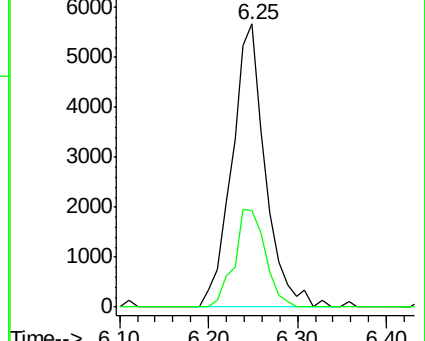
63 100

65 34.3 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 4.354 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

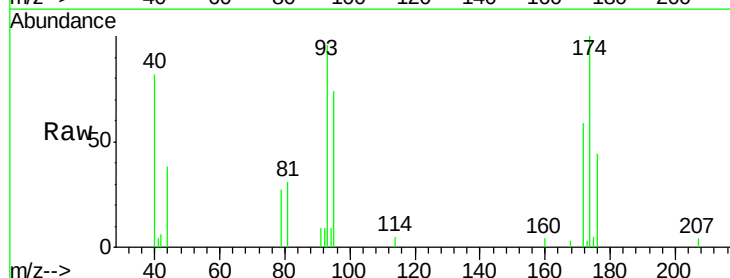
Tgt Ion: 93 Resp: 8496

Ion Ratio Lower Upper

93 100

95 76.7 69.0 103.6

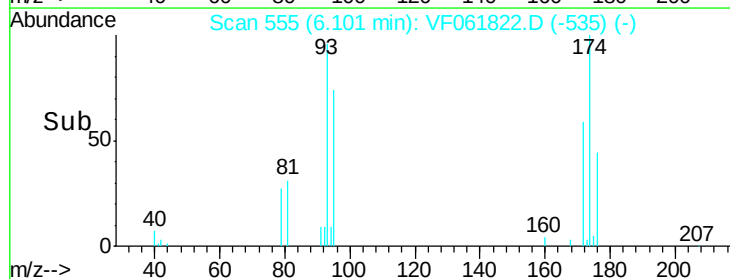
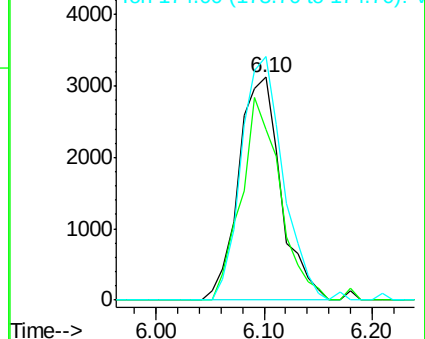
174 109.2 99.3 148.9

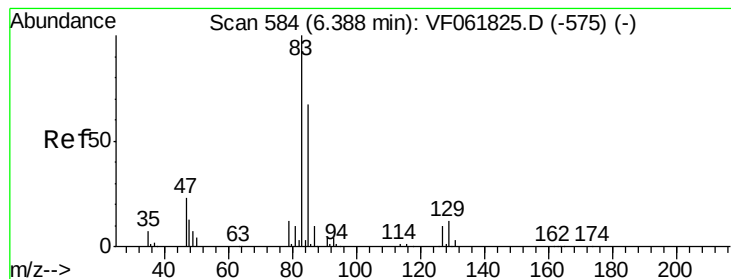


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 4.523 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

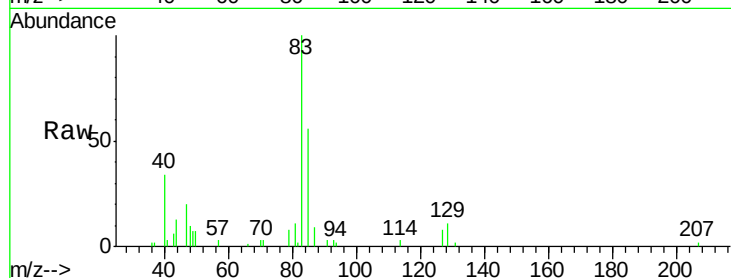
Tot Ion: 83 Resp: 19326

Ion Ratio Lower Upper

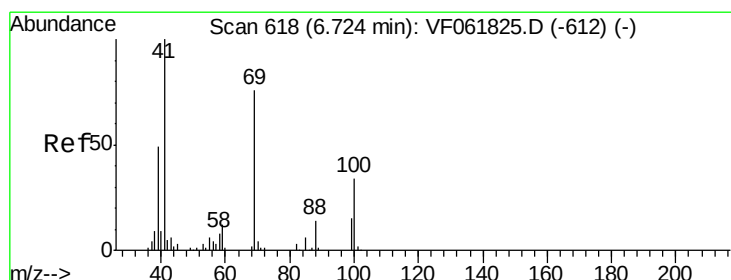
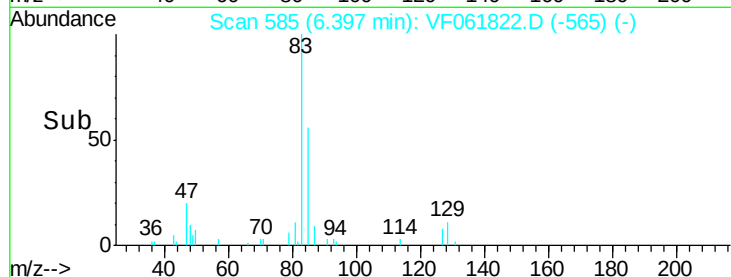
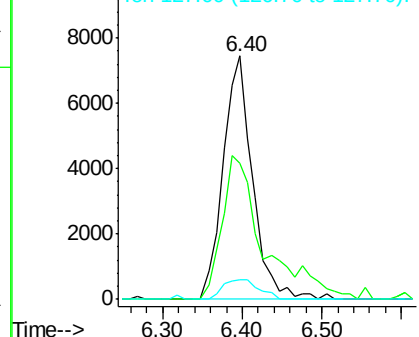
83 100

85 56.1 53.4 80.2

127 8.1 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 4.212 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

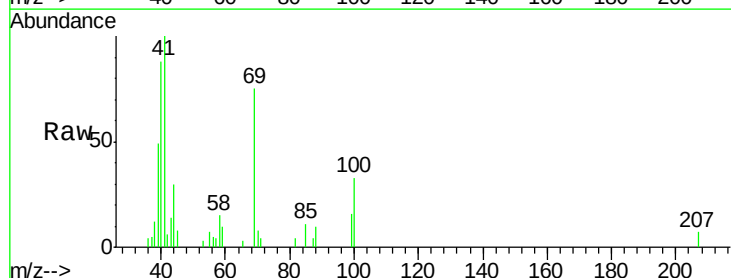
Tgt Ion: 41 Resp: 6985

Ion Ratio Lower Upper

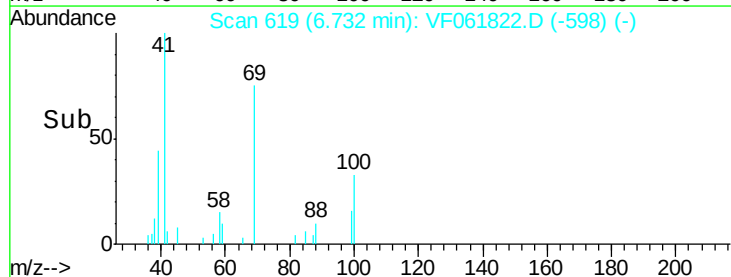
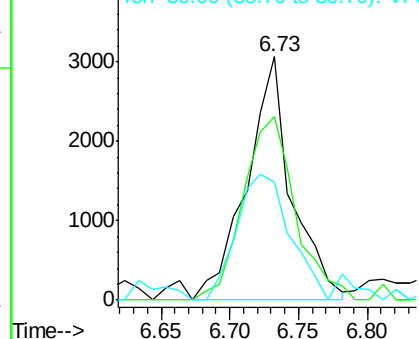
41 100

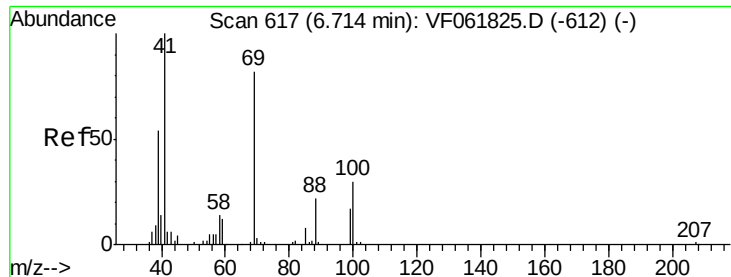
69 75.3 60.4 90.6

39 48.7 43.7 65.5



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

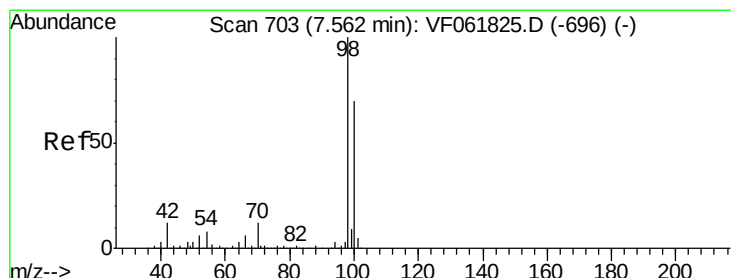
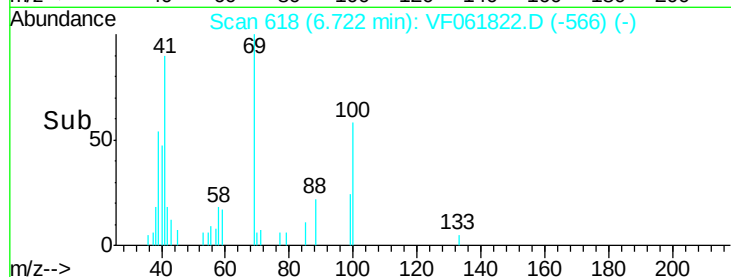
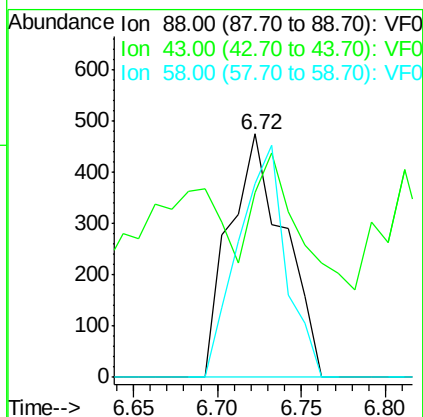
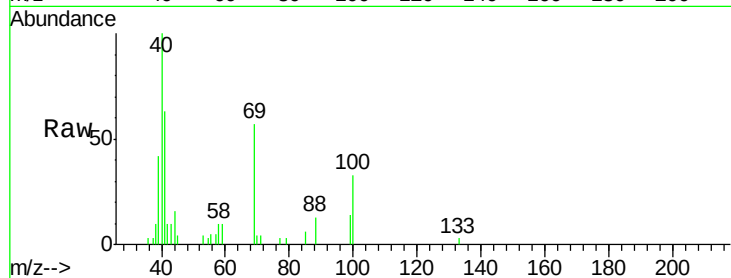




#49
1,4-Dioxane
Concen: 68.956 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

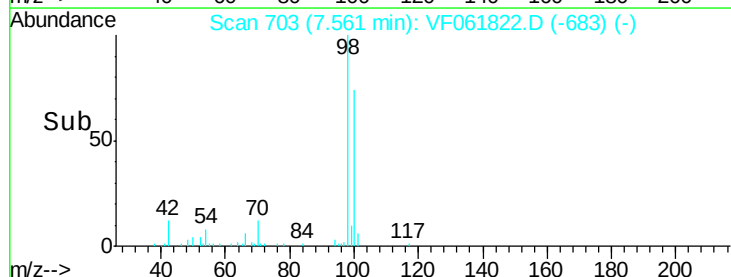
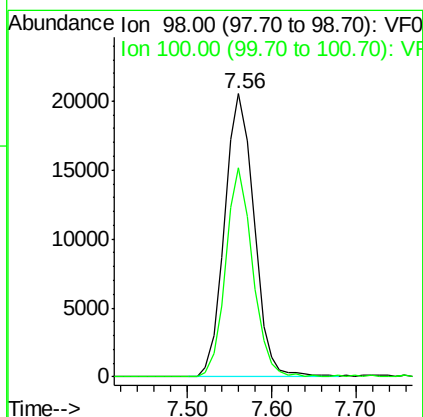
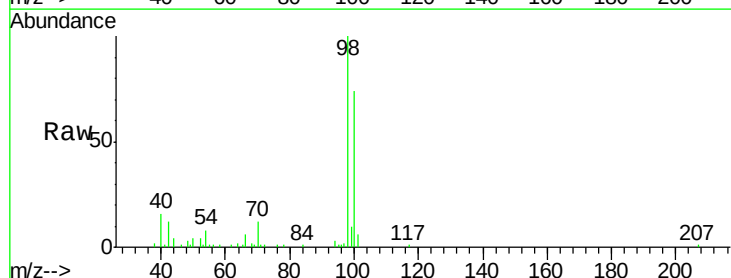
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

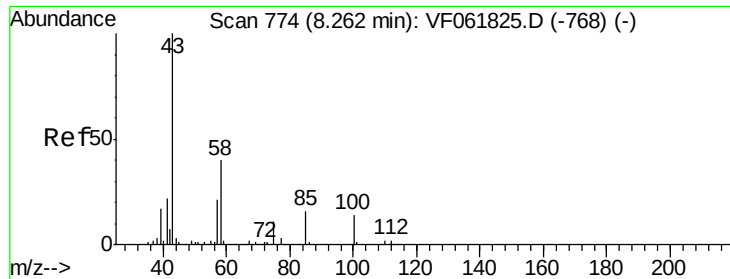
Tot Ion: 88 Resp: 1075
Ion Ratio Lower Upper
88 100
43 76.0 32.3 48.5#
58 79.4 59.4 89.2



#50
Toluene-d8
Concen: 4.648 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 98 Resp: 50201
Ion Ratio Lower Upper
98 100
100 73.8 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 21.158 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

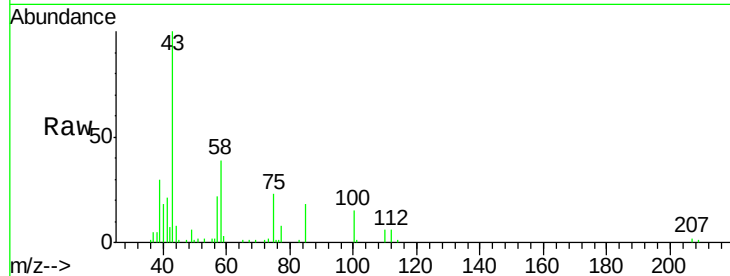
VSTDIC005

Tot Ion: 43 Resp: 41662

Ion Ratio Lower Upper

43 100

58 38.9 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

15000

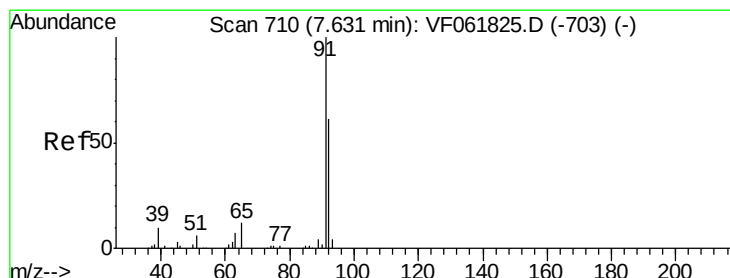
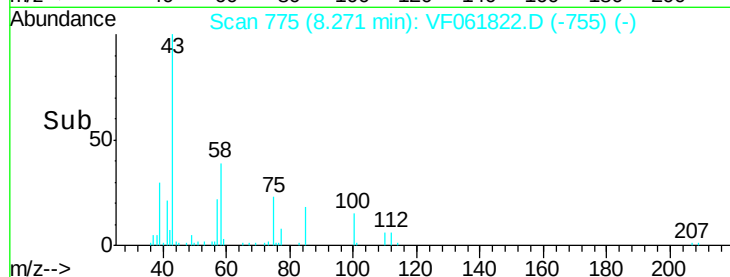
10000

5000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 4.790 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061822.D

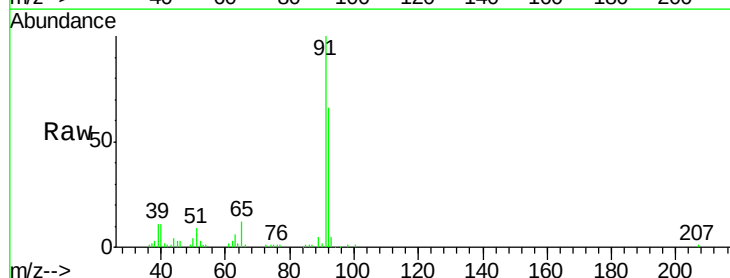
Acq: 4 Mar 2019 16:04

Tgt Ion: 92 Resp: 38086

Ion Ratio Lower Upper

92 100

91 150.5 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

30000

25000

20000

15000

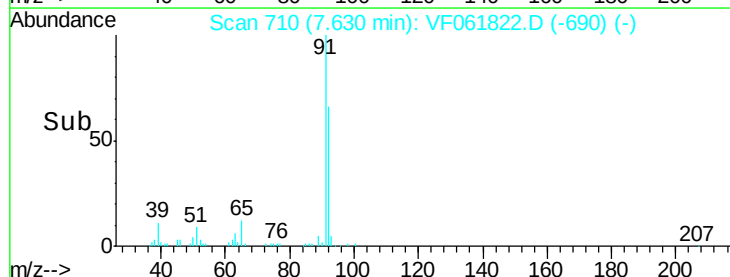
10000

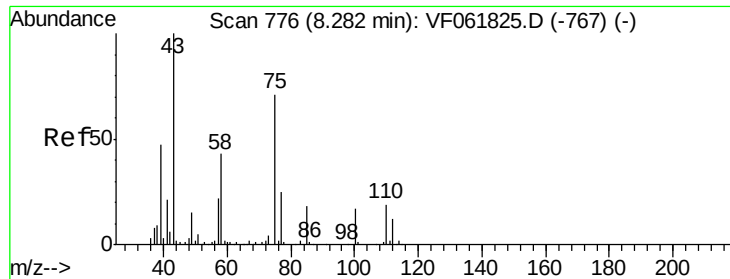
5000

0

7.50 7.60 7.70

Time-->

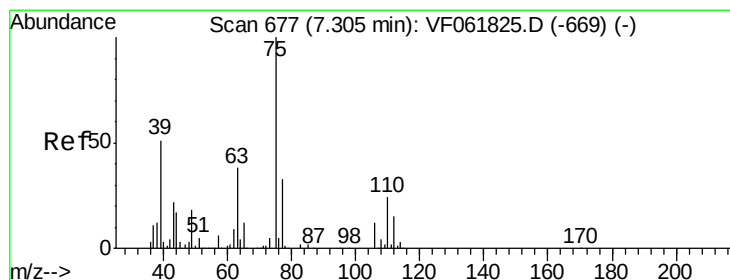
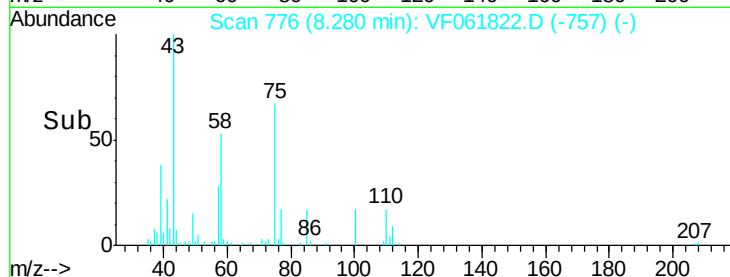
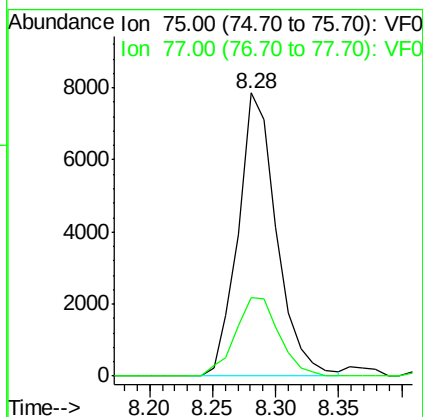
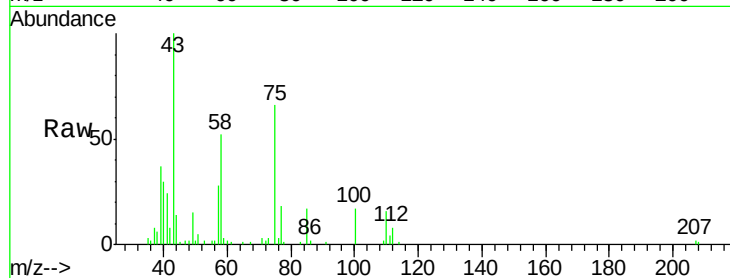




#53
t-1,3-Dichloropropene
Concen: 4.676 ug/l
RT: 8.28 min Scan# 776
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

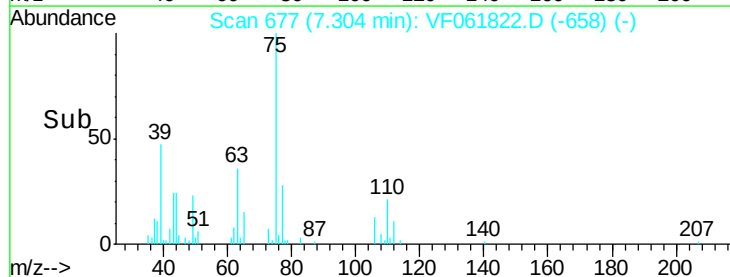
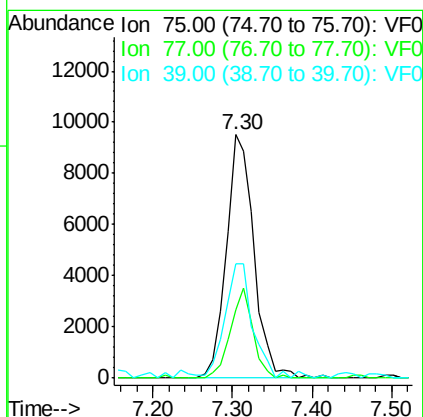
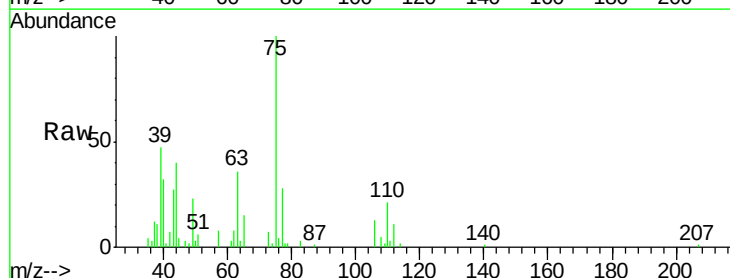
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

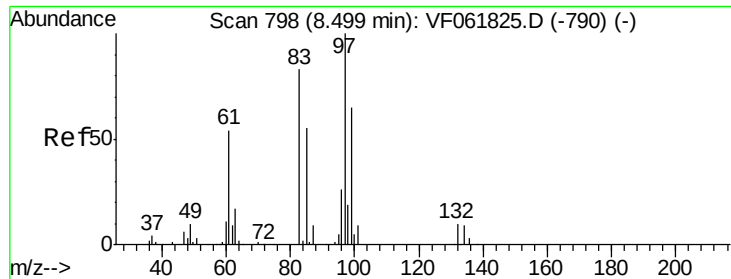
Tot Ion: 75 Resp: 16628
Ion Ratio Lower Upper
75 100
77 27.9 26.2 39.2



#54
cis-1,3-Dichloropropene
Concen: 4.877 ug/l
RT: 7.30 min Scan# 677
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 75 Resp: 23103
Ion Ratio Lower Upper
75 100
77 28.0 26.4 39.6
39 46.9 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 4.404 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 97 Resp: 10289

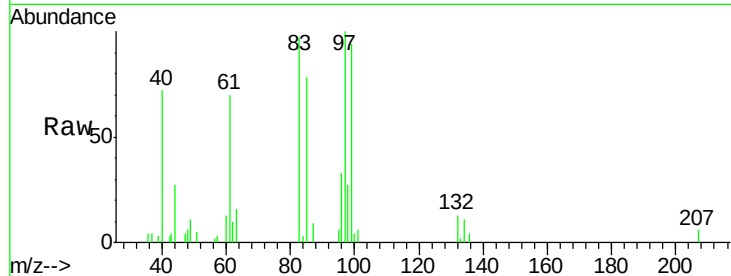
Ion Ratio Lower Upper

97 100

83 96.8 69.2 103.8

85 78.4 43.0 64.4#

99 93.8 47.2 70.8#

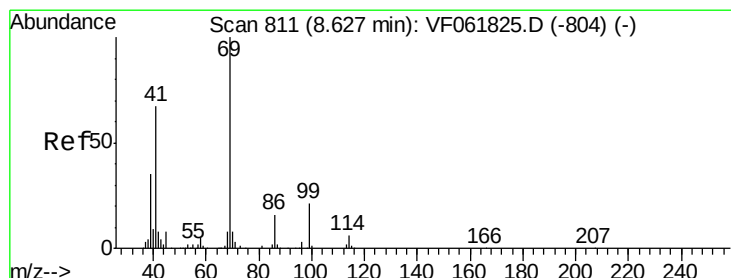
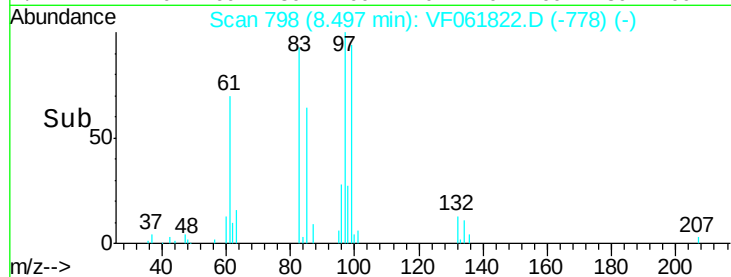
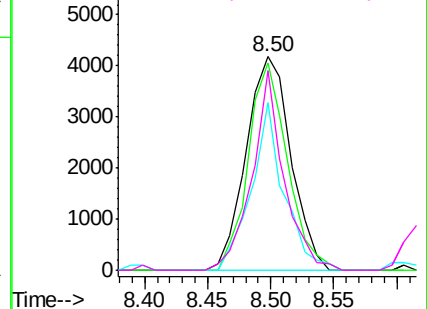


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 4.442 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

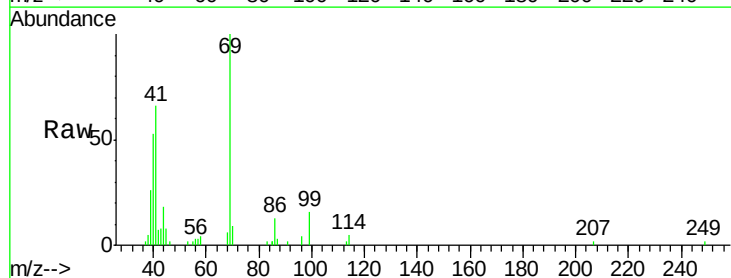
Tgt Ion: 69 Resp: 11553

Ion Ratio Lower Upper

69 100

41 66.2 52.9 79.3

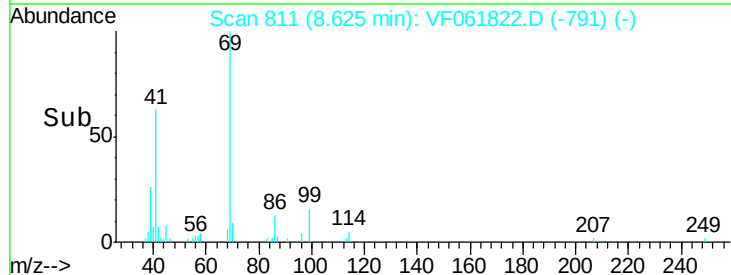
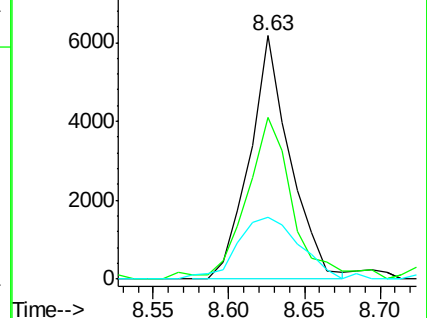
39 25.5 24.5 36.7

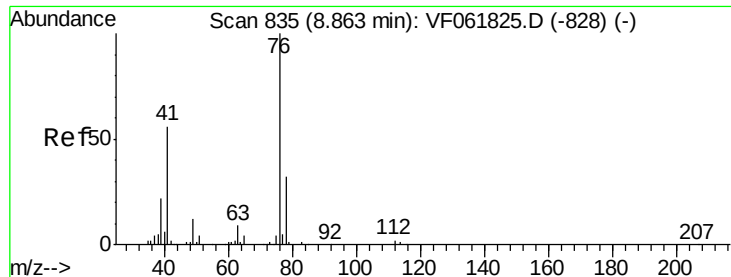


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 4.149 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

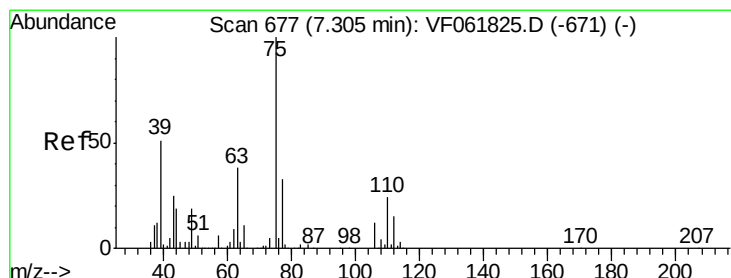
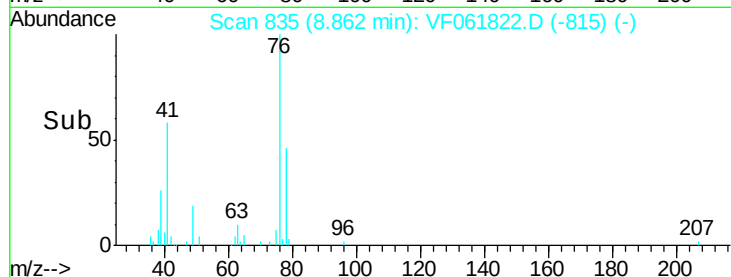
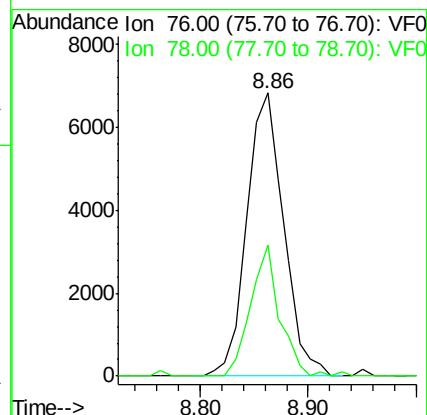
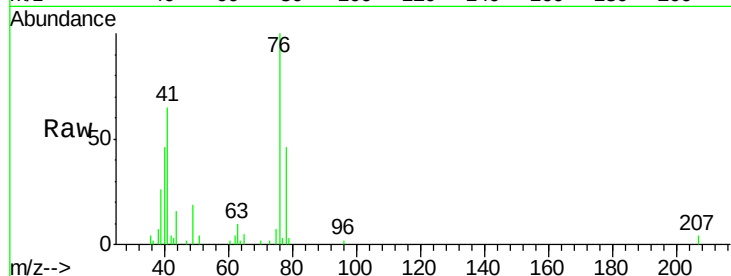
VSTDIC005

Tot Ion: 76 Resp: 16177

Ion Ratio Lower Upper

76 100

78 46.5 27.8 41.6#



#58

2-Chloroethyl Vinyl ether

Concen: 19.349 ug/l

RT: 7.30 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF061822.D

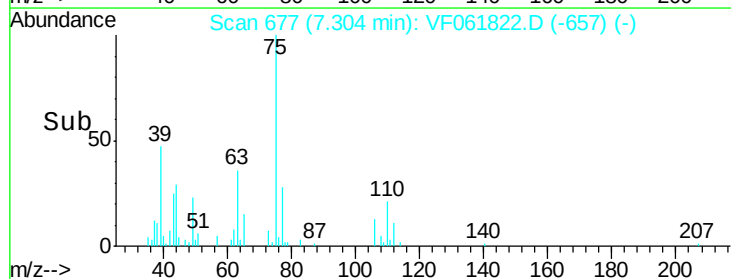
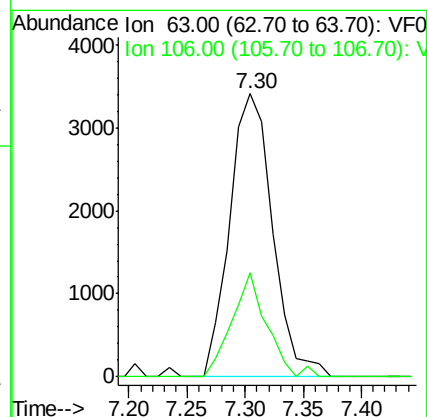
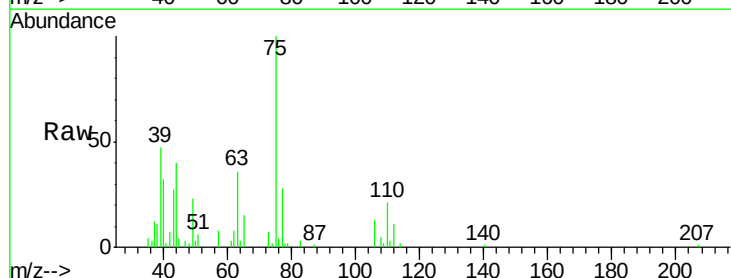
Acq: 4 Mar 2019 16:04

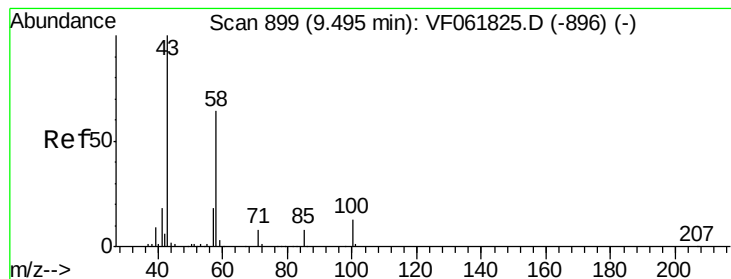
Tgt Ion: 63 Resp: 8683

Ion Ratio Lower Upper

63 100

106 36.8 24.6 36.8





#59

2-Hexanone

Concen: 24.225 ug/l

RT: 9.50 min Scan# 900

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

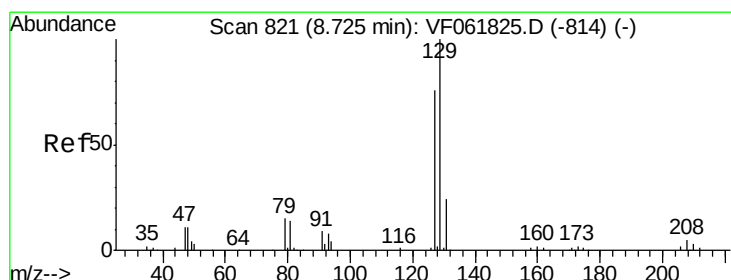
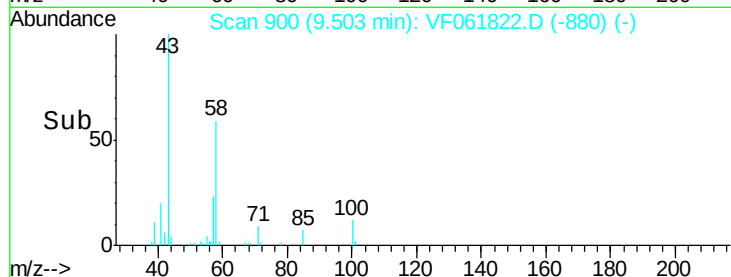
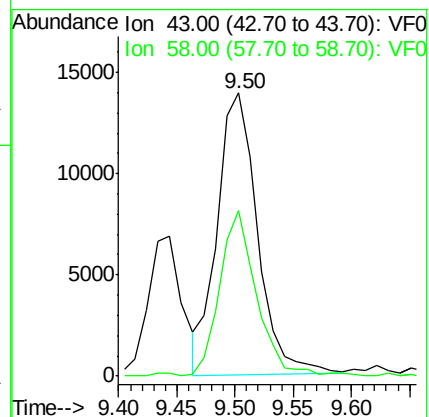
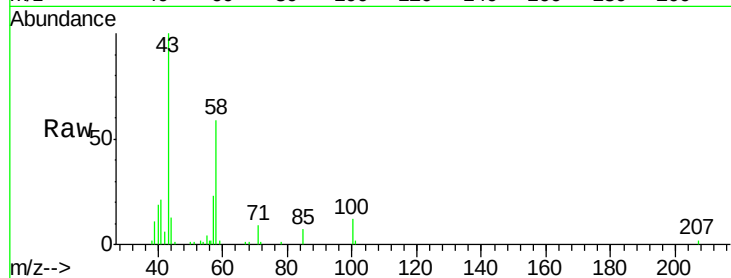
VSTDIC005

Tot Ion: 43 Resp: 33437

Ion Ratio Lower Upper

43 100

58 58.7 28.5 85.5



#60

Dibromochloromethane

Concen: 4.420 ug/l

RT: 8.72 min Scan# 821

Delta R.T. 0.00 min

Lab File: VF061822.D

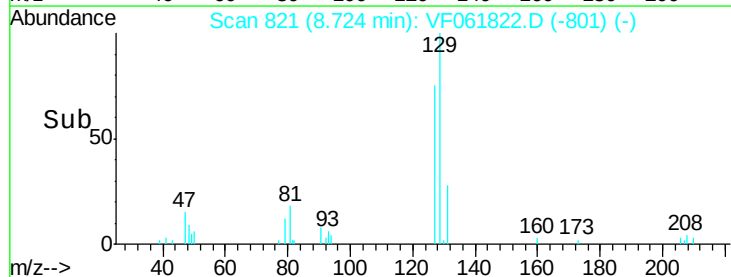
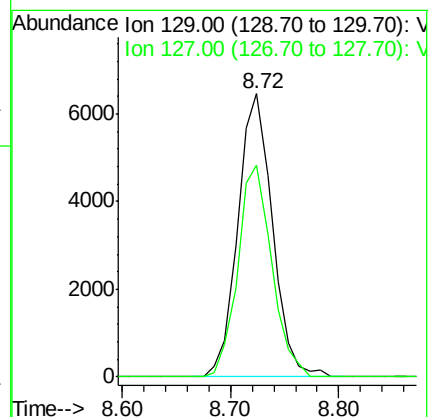
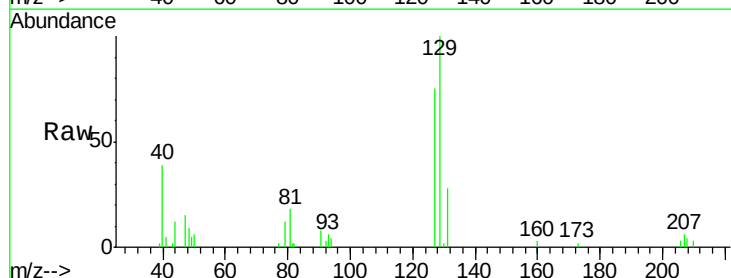
Acq: 4 Mar 2019 16:04

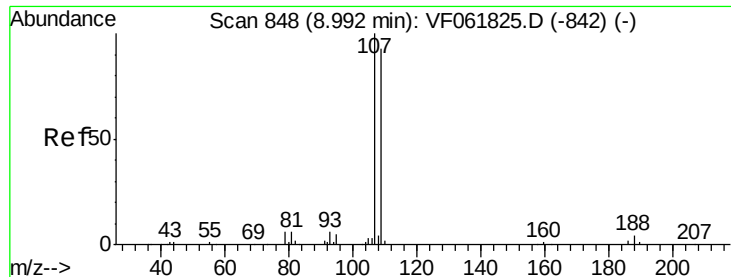
Tgt Ion: 129 Resp: 14373

Ion Ratio Lower Upper

129 100

127 74.6 37.8 113.4





#61

1,2-Dibromoethane

Concen: 4.477 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

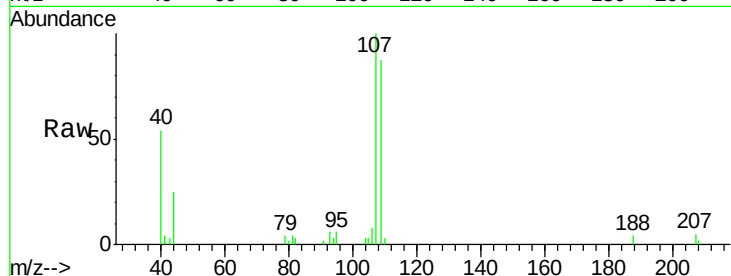
VSTDIC005

Tot Ion:107 Resp: 11345

Ion Ratio Lower Upper

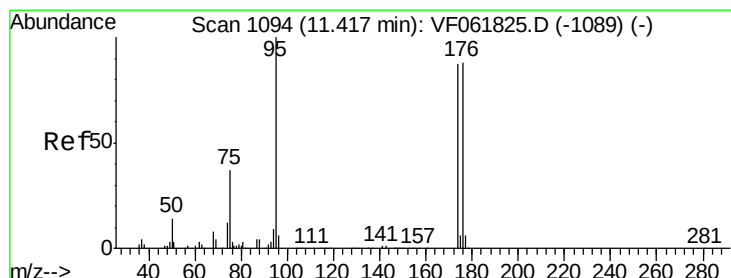
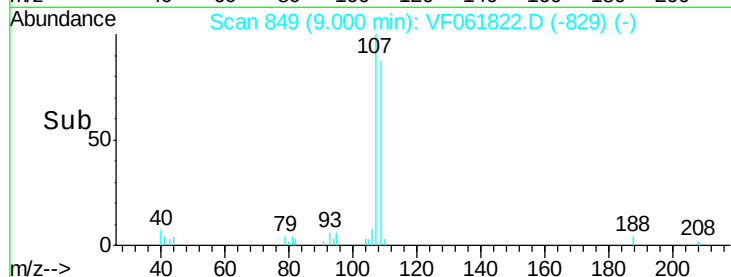
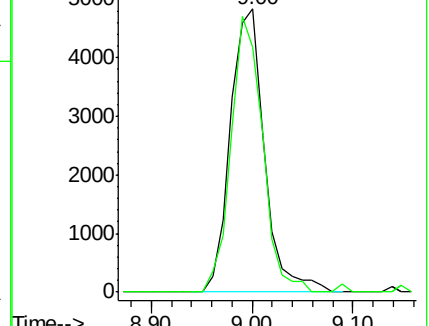
107 100

109 86.6 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 4.633 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

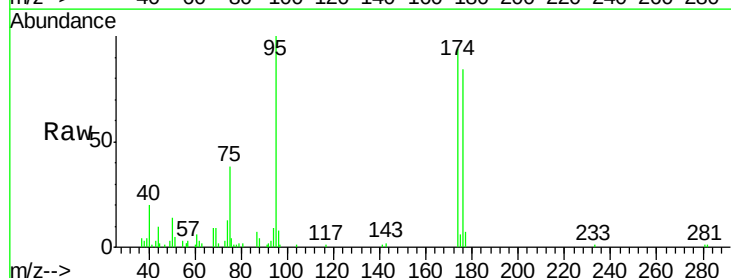
Tgt Ion: 95 Resp: 20250

Ion Ratio Lower Upper

95 100

174 94.3 0.0 165.8

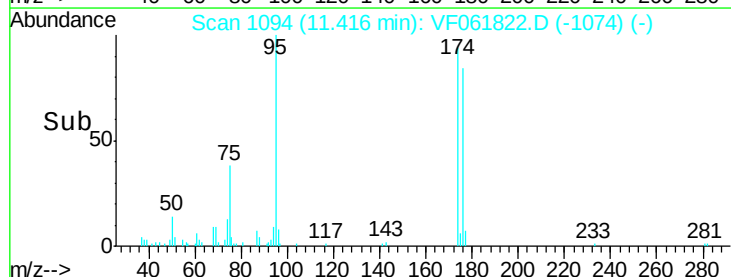
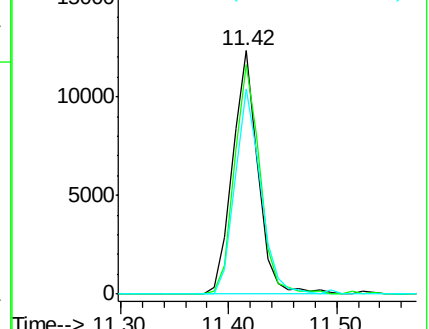
176 84.1 0.0 167.0

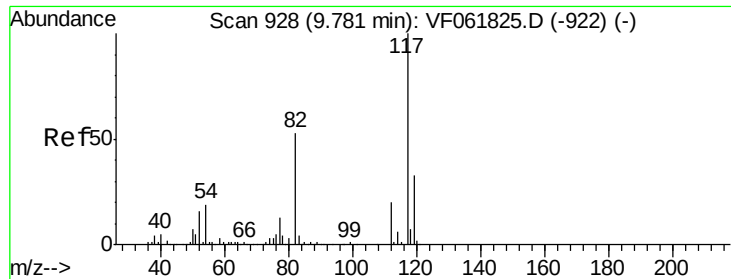


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

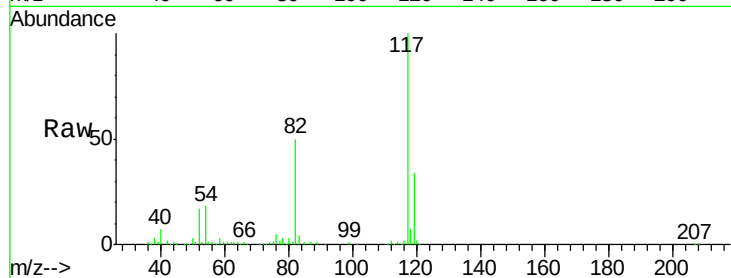




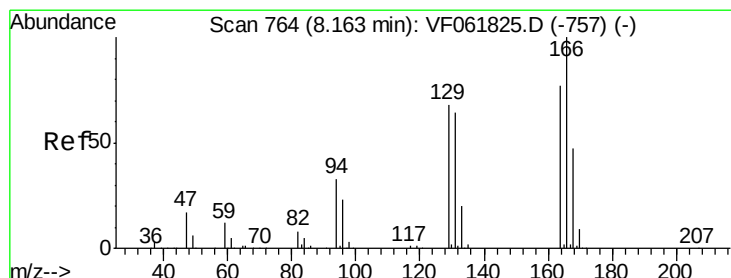
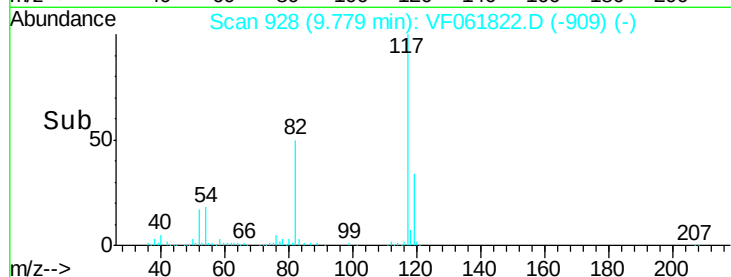
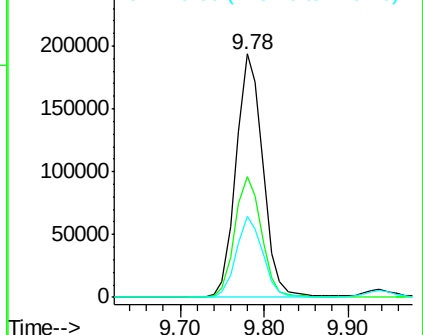
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:117 Resp: 432520
Ion Ratio Lower Upper
117 100
82 49.8 39.3 58.9
119 33.6 26.6 40.0

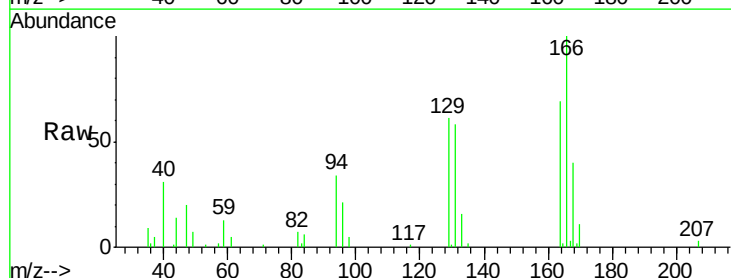


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

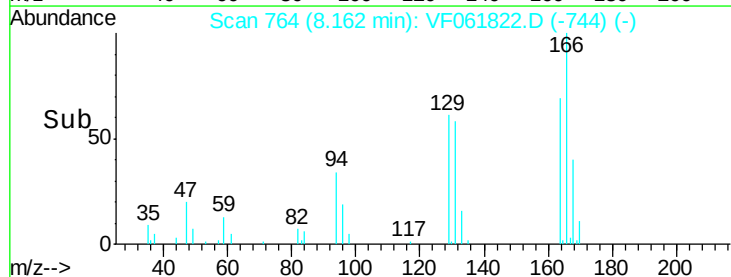
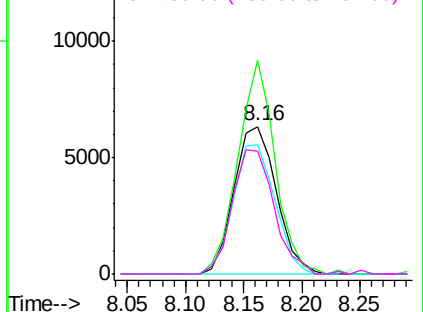


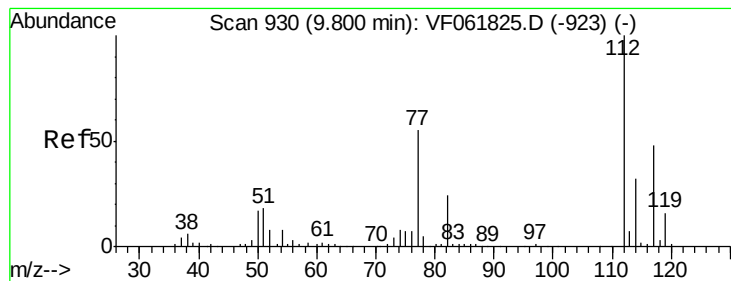
#64
Tetrachloroethene
Concen: 4.522 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion:164 Resp: 15987
Ion Ratio Lower Upper
164 100
166 144.6 103.9 155.9
129 87.6 71.3 106.9
131 83.4 67.1 100.7



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 4.776 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

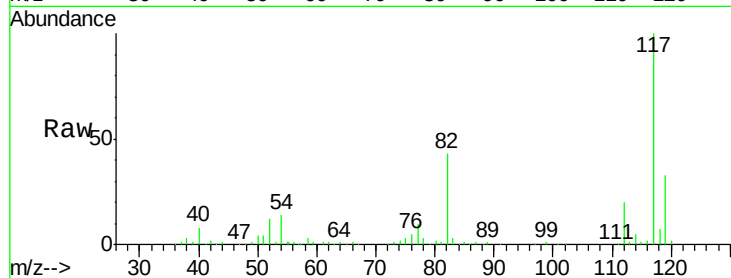
VSTDIC005

Tot Ion:112 Resp: 41920

Ion Ratio Lower Upper

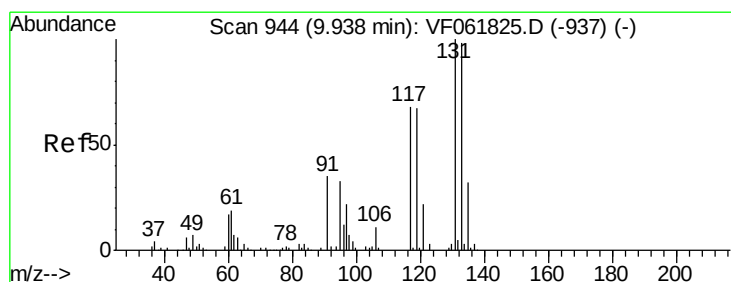
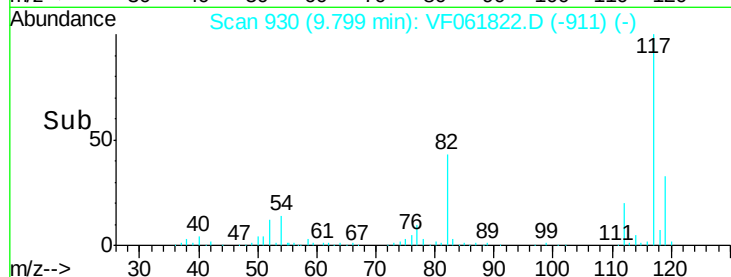
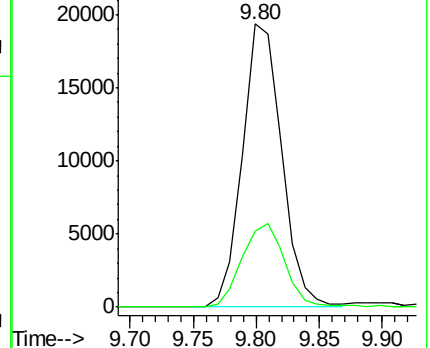
112 100

114 26.9 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 4.564 ug/l

RT: 9.94 min Scan# 944

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

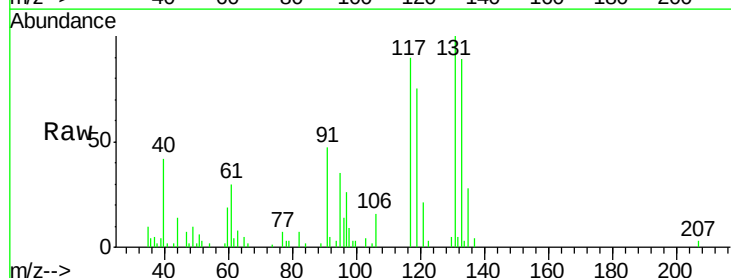
Tgt Ion:131 Resp: 15696

Ion Ratio Lower Upper

131 100

133 88.6 48.9 146.6

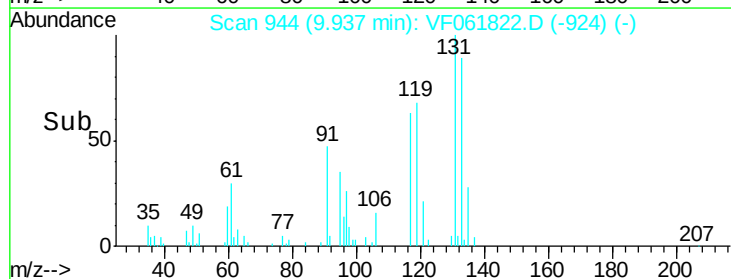
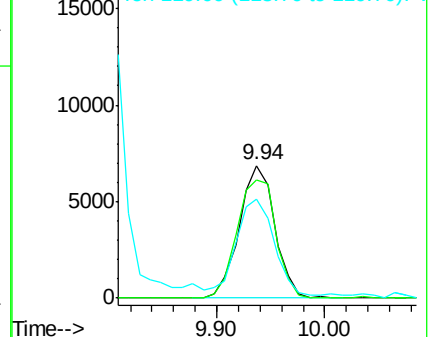
119 74.7 34.8 104.3

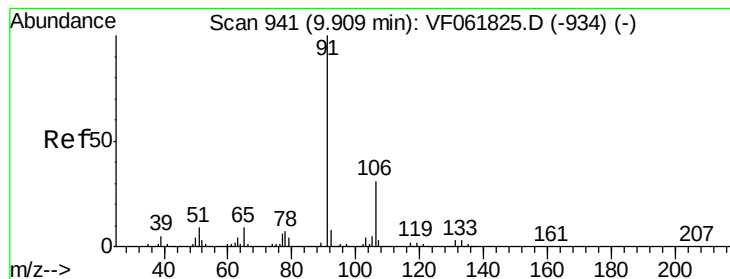


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 4.837 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

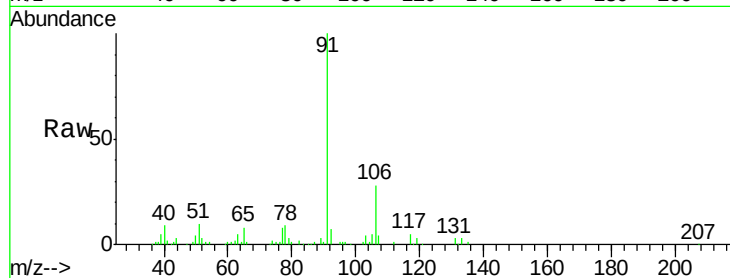
VSTDIC005

Tot Ion: 91 Resp: 70603

Ion Ratio Lower Upper

91 100

106 28.1 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

9.91

30000

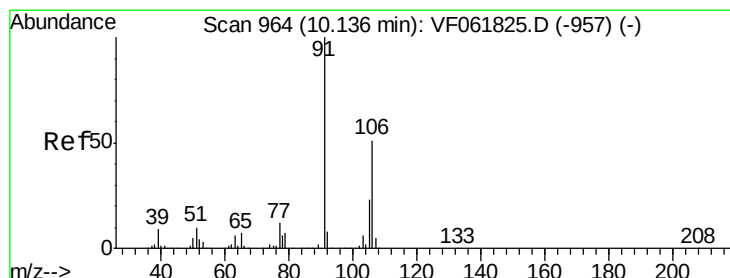
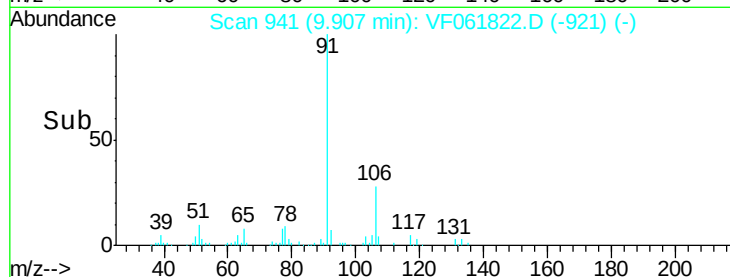
20000

10000

0

9.80 9.90 10.00

Time-->



#68

m/p-Xylenes

Concen: 9.975 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061822.D

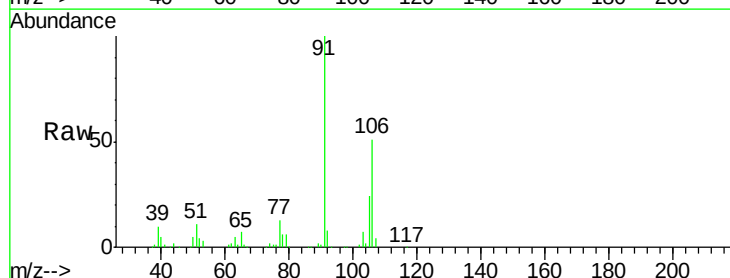
Acq: 4 Mar 2019 16:04

Tgt Ion:106 Resp: 55722

Ion Ratio Lower Upper

106 100

91 194.5 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

10.13

60000

50000

40000

30000

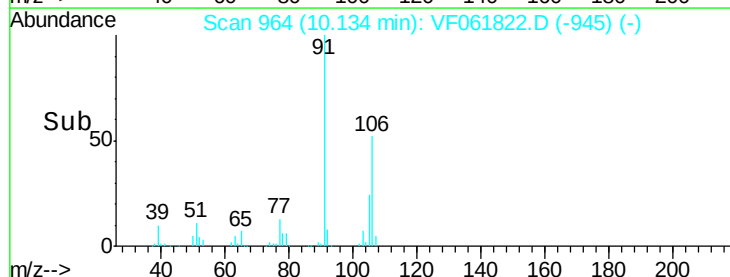
20000

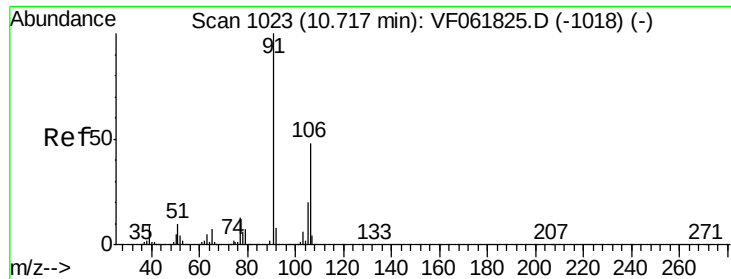
10000

0

10.00 10.10 10.20 10.30

Time-->

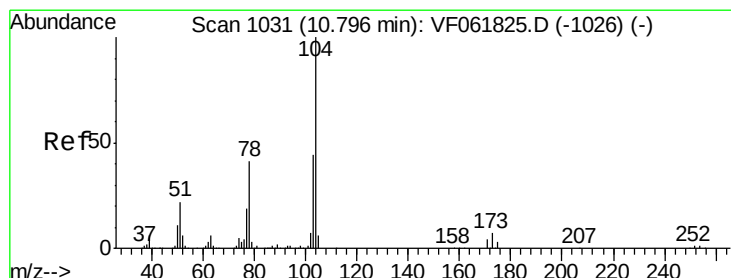
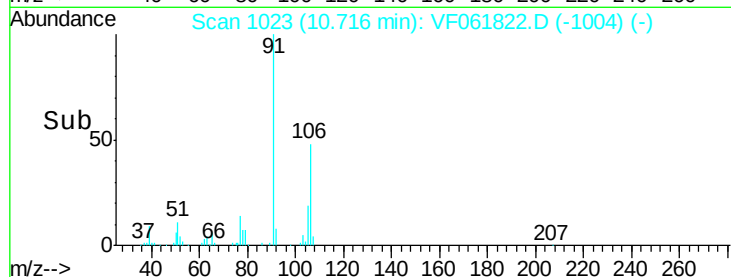
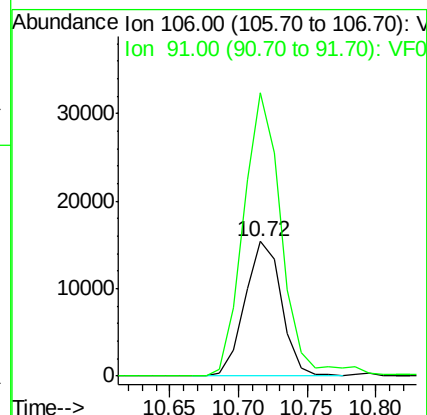
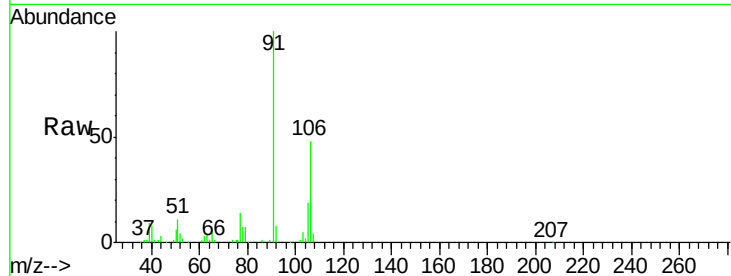




#69
o-Xylene
Concen: 4.793 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

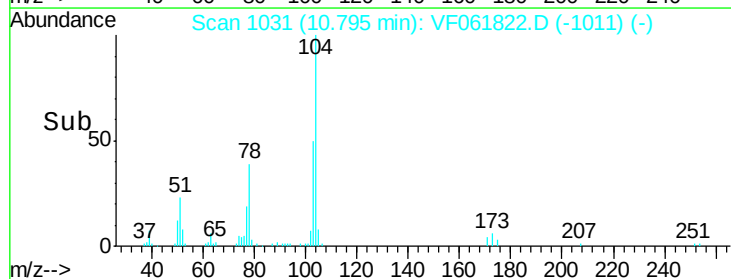
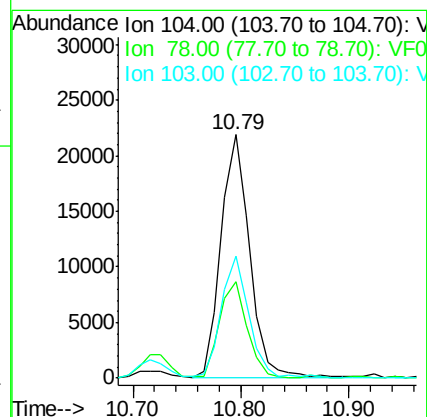
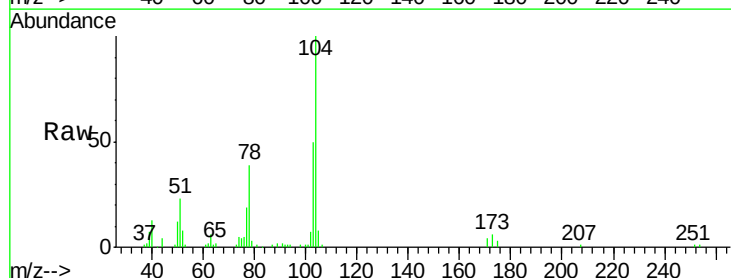
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

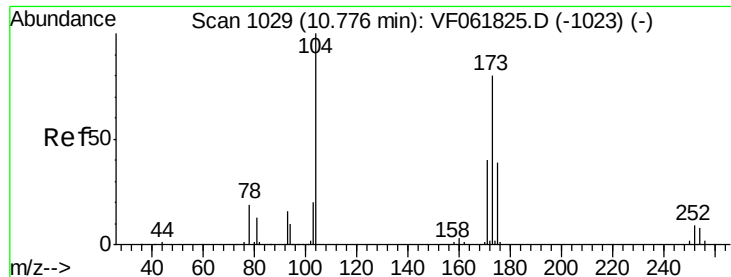
Tot Ion:106 Resp: 28571
Ion Ratio Lower Upper
106 100
91 210.5 100.1 300.1



#70
Styrene
Concen: 4.822 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion:104 Resp: 40662
Ion Ratio Lower Upper
104 100
78 39.4 33.2 49.8
103 50.4 37.2 55.8





#71

Bromoform

Concen: 4.290 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

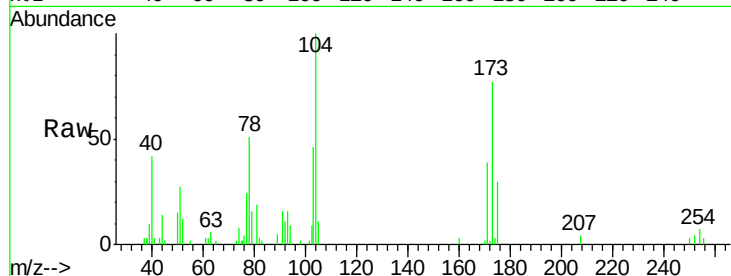
Tot Ion:173 Resp: 8011

Ion Ratio Lower Upper

173 100

175 38.2 24.0 72.0

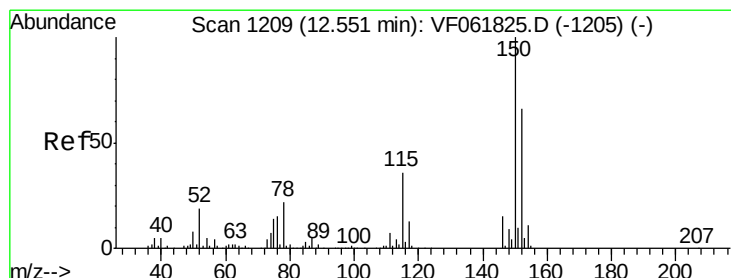
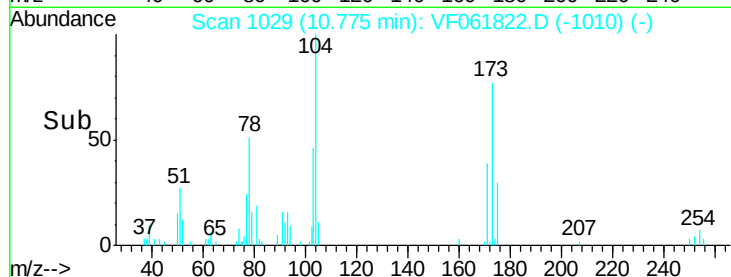
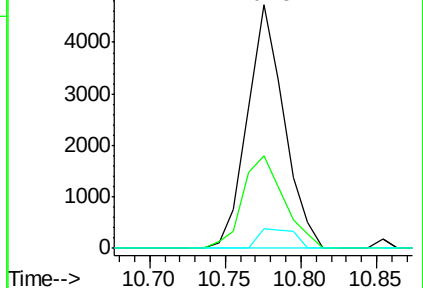
254 8.3 8.2 12.2



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

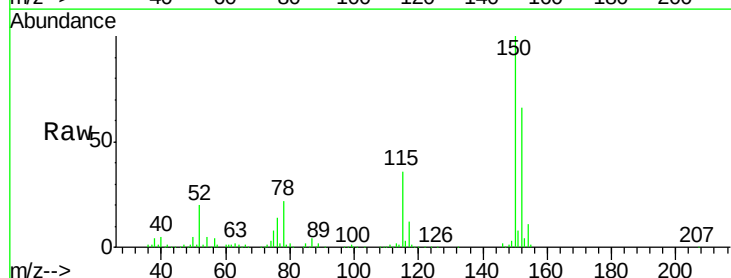
Tgt Ion:152 Resp: 239939

Ion Ratio Lower Upper

152 100

115 55.0 24.3 72.8

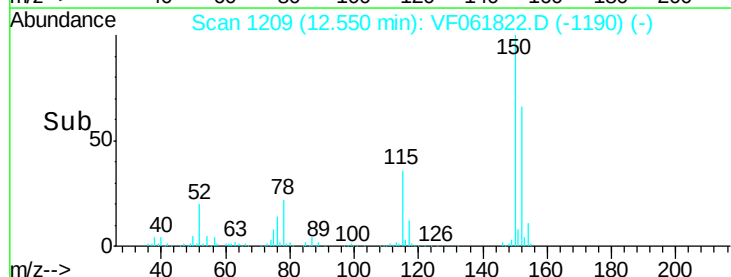
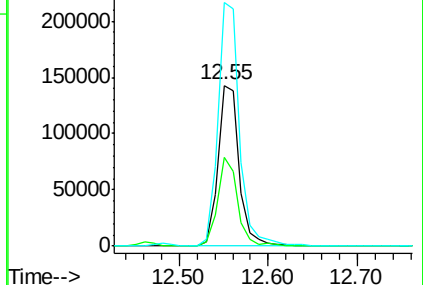
150 151.2 0.0 312.0

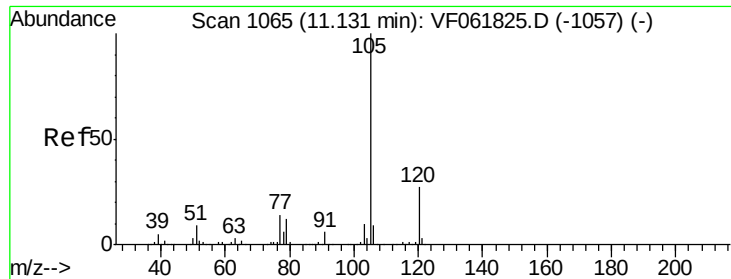


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 4.901 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

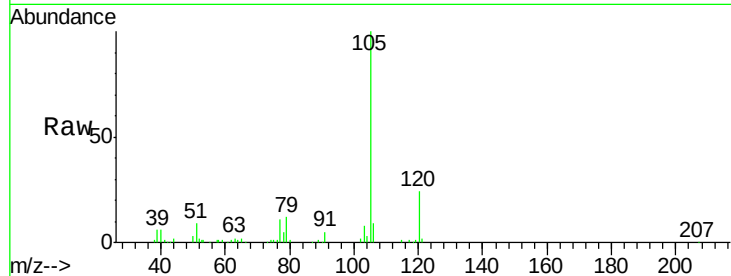
VSTDIC005

Tot Ion:105 Resp: 83717

Ion Ratio Lower Upper

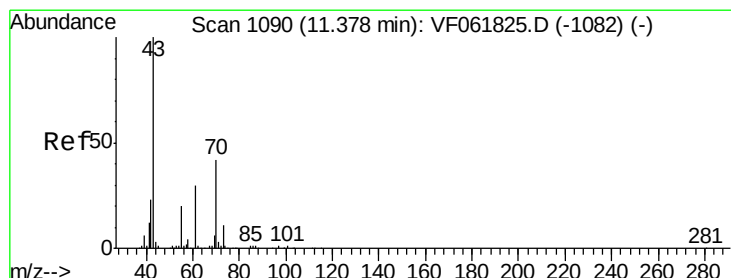
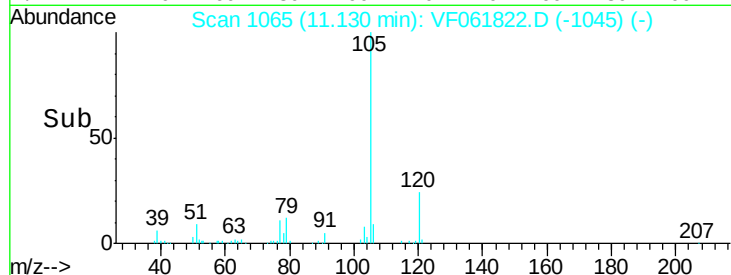
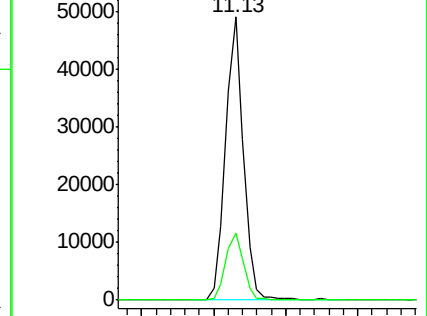
105 100

120 23.6 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.328 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion: 43 Resp: 17746

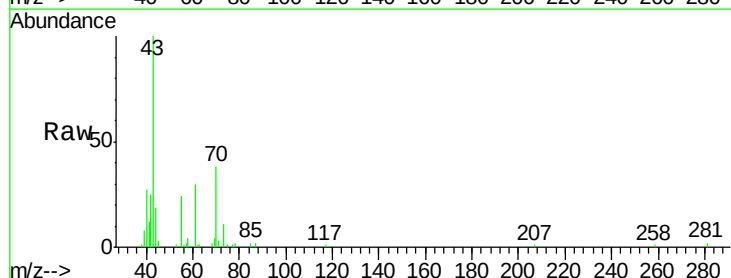
Ion Ratio Lower Upper

43 100

70 37.7 31.5 47.3

55 24.3 16.7 25.1

61 29.7 23.0 34.6

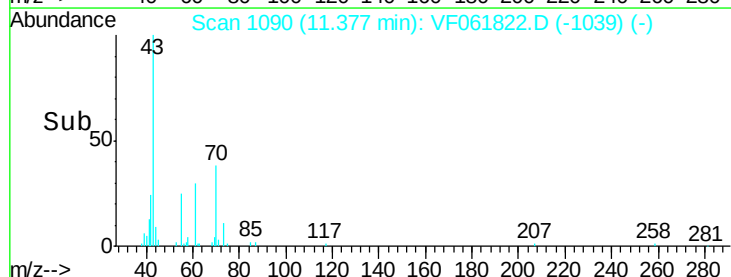
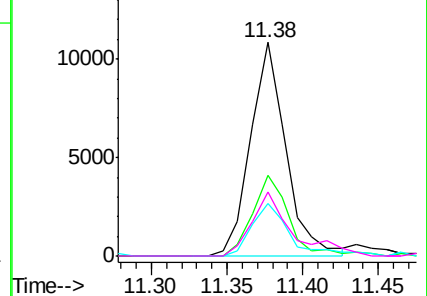


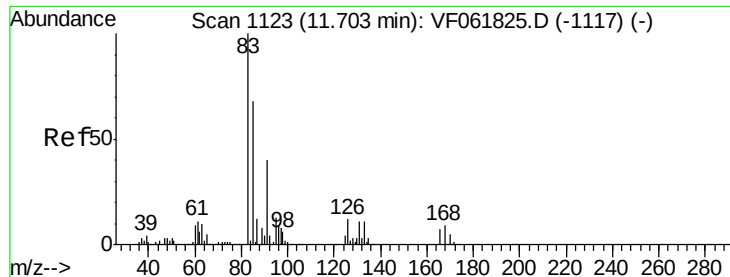
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 4.414 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

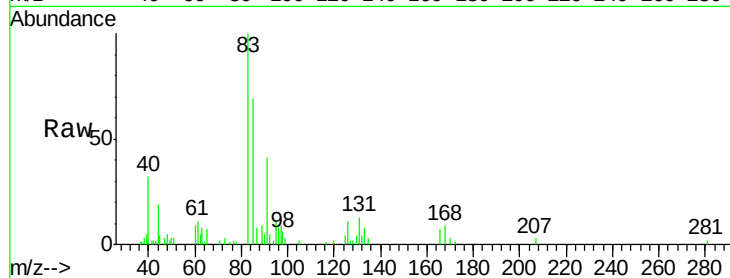
Tot Ion: 83 Resp: 13510

Ion Ratio Lower Upper

83 100

131 13.1 4.4 13.2

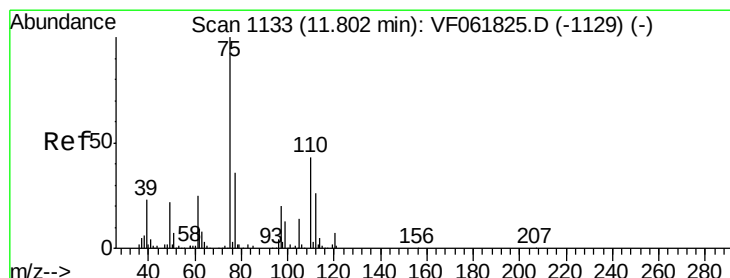
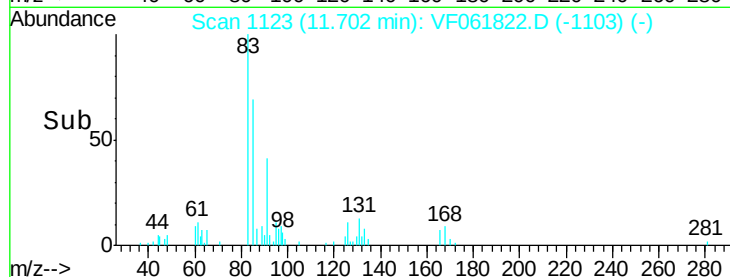
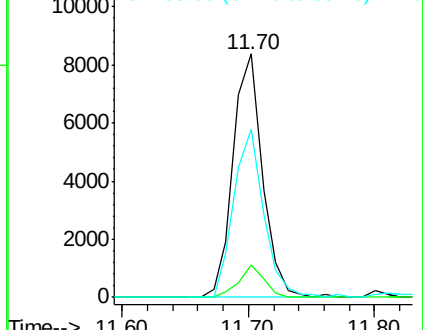
85 69.0 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 4.388 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF061822.D

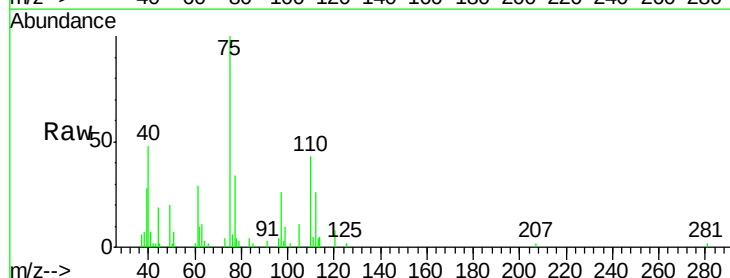
Acq: 4 Mar 2019 16:04

Tgt Ion: 75 Resp: 9131

Ion Ratio Lower Upper

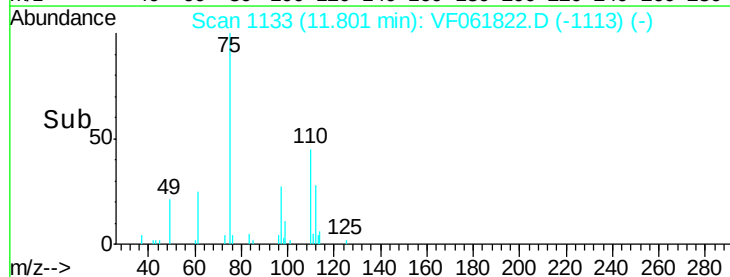
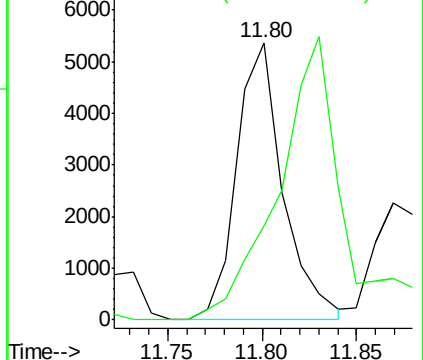
75 100

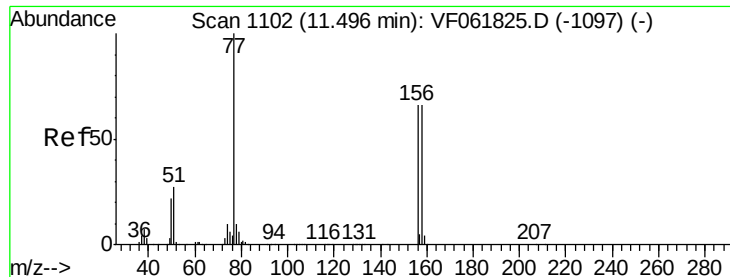
77 33.8 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 4.924 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

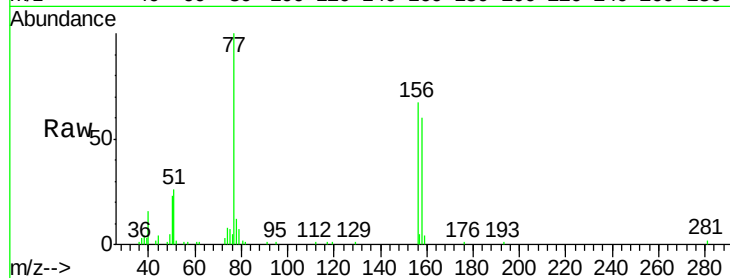
Tot Ion:156 Resp: 20782

Ion Ratio Lower Upper

156 100

77 150.1 64.3 192.7

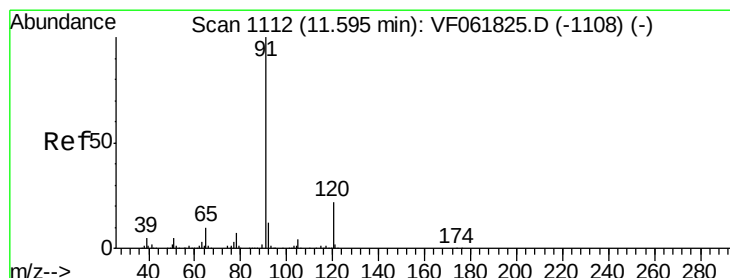
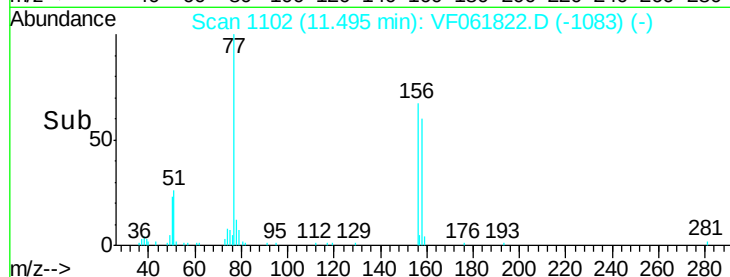
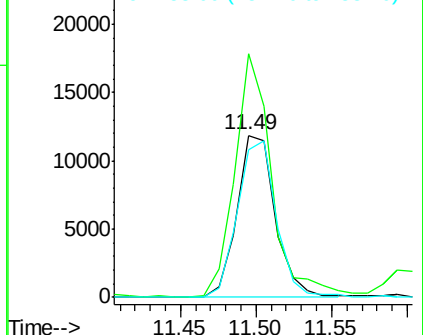
158 90.6 50.9 152.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 4.967 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF061822.D

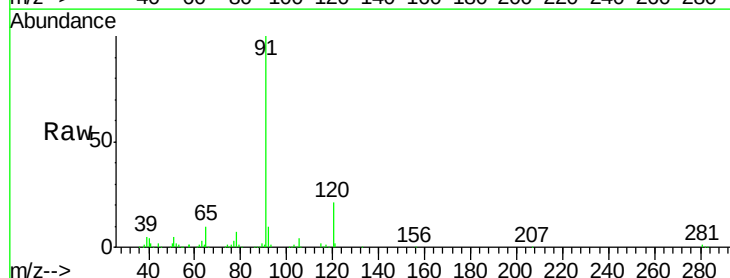
Acq: 4 Mar 2019 16:04

Tgt Ion: 91 Resp: 97366

Ion Ratio Lower Upper

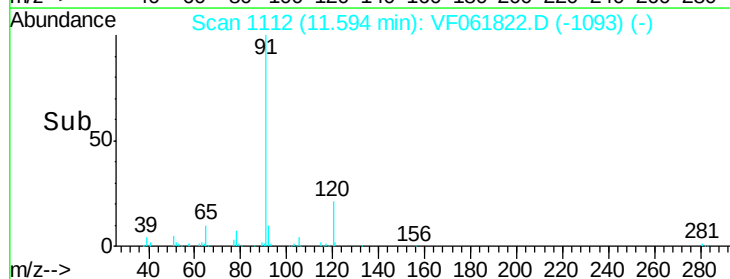
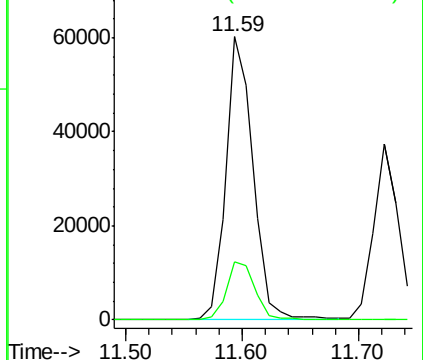
91 100

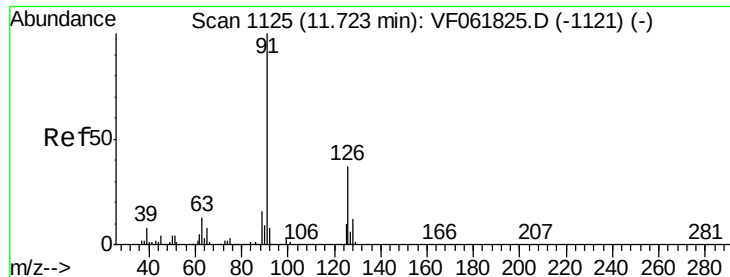
120 20.7 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.971 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

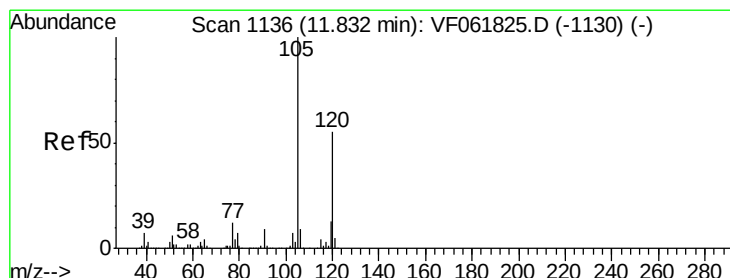
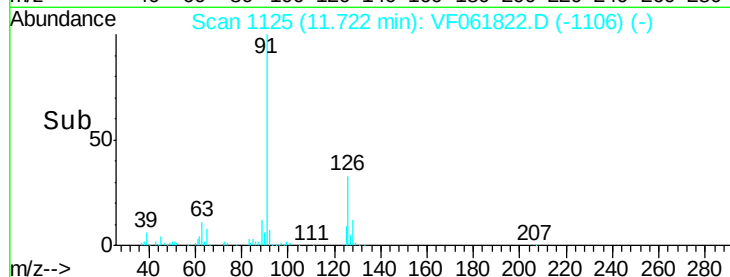
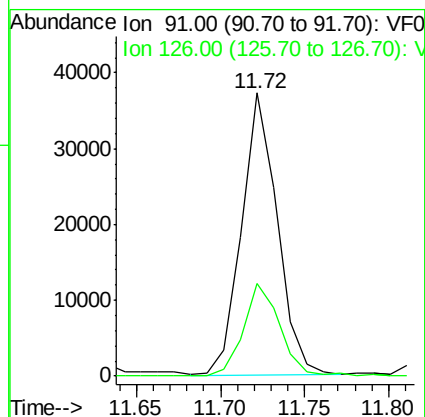
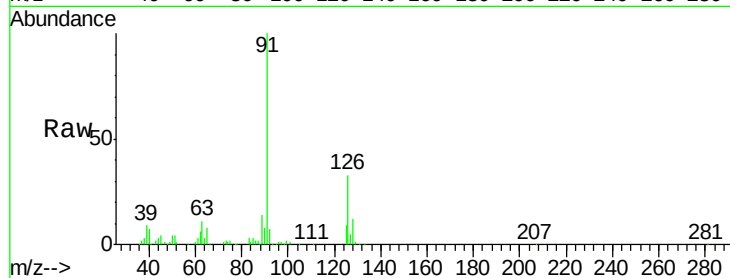
VSTDIC005

Tot Ion: 91 Resp: 54573

Ion Ratio Lower Upper

91 100

126 32.9 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 4.994 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF061822.D

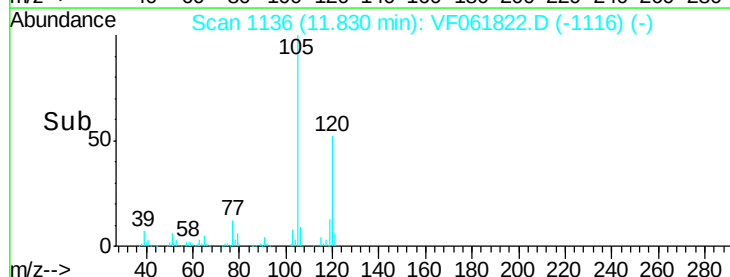
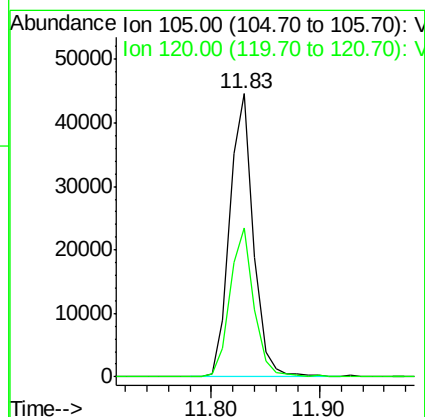
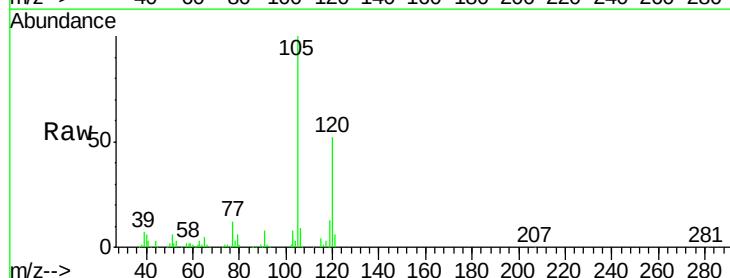
Acq: 4 Mar 2019 16:04

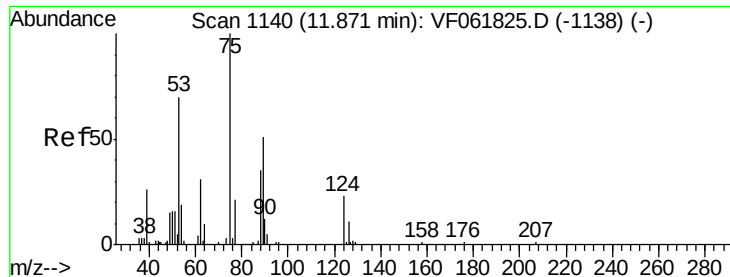
Tgt Ion:105 Resp: 68185

Ion Ratio Lower Upper

105 100

120 52.4 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 5.782 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

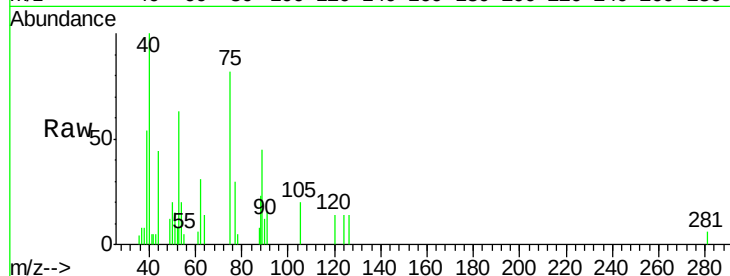
Tot Ion: 75 Resp: 5768

Ion Ratio Lower Upper

75 100

53 77.2 53.7 80.5

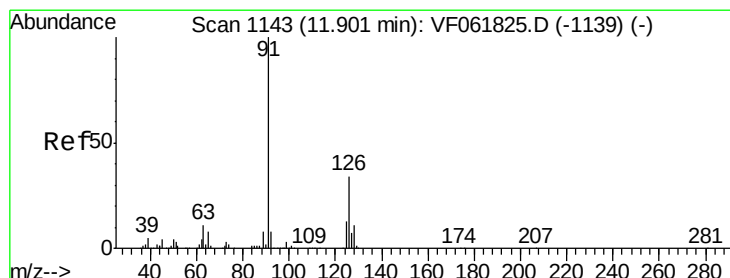
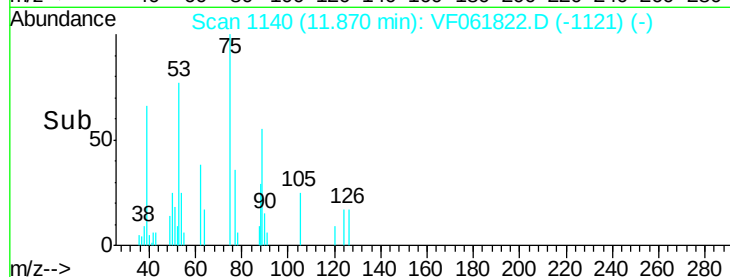
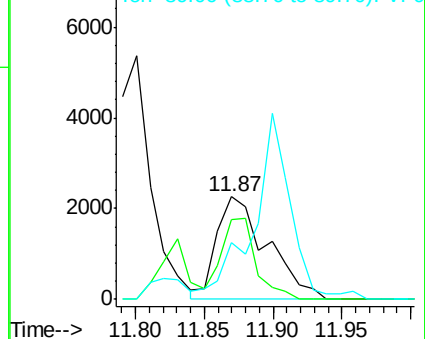
89 55.3 41.6 62.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 4.796 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF061822.D

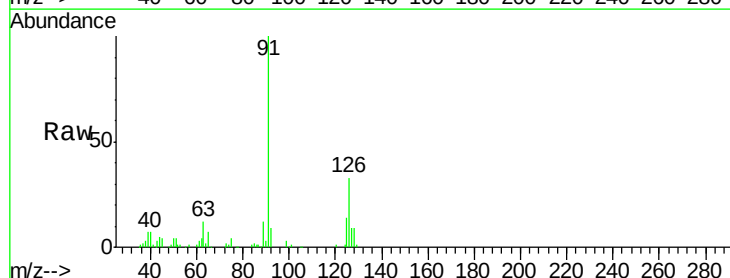
Acq: 4 Mar 2019 16:04

Tgt Ion: 91 Resp: 54655

Ion Ratio Lower Upper

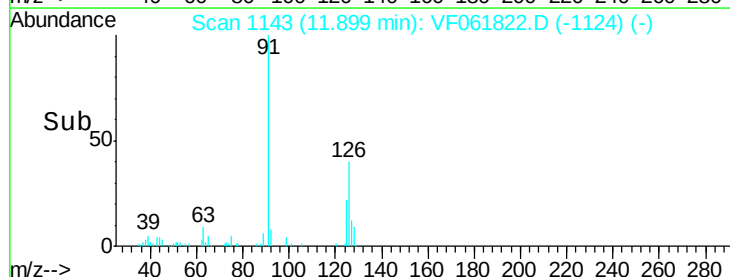
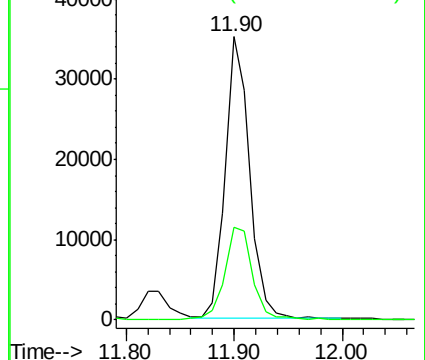
91 100

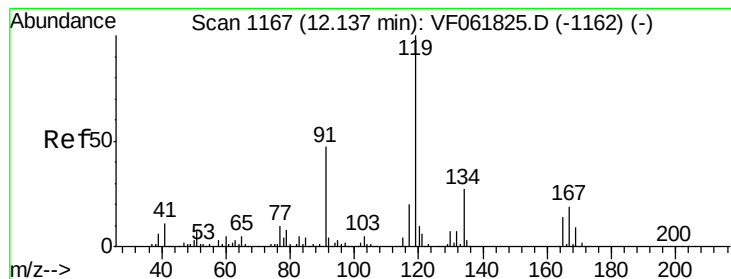
126 32.7 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 4.344 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

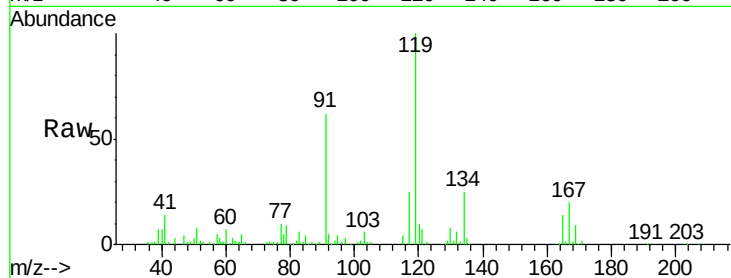
Tot Ion:119 Resp: 65700

Ion Ratio Lower Upper

119 100

91 62.0 26.3 78.8

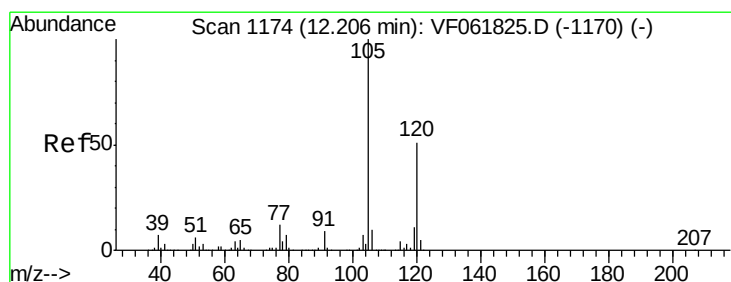
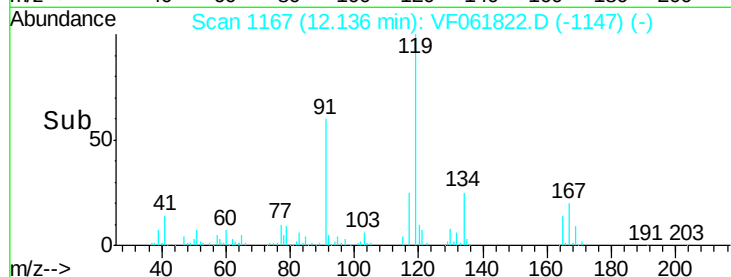
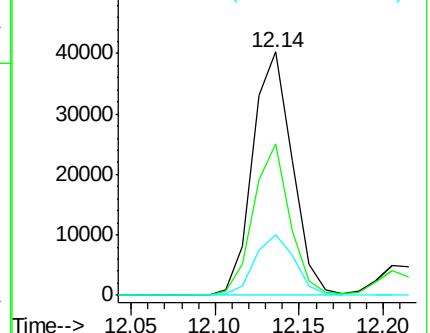
134 25.1 12.9 38.7



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: 4.886 ug/l

RT: 12.20 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF061822.D

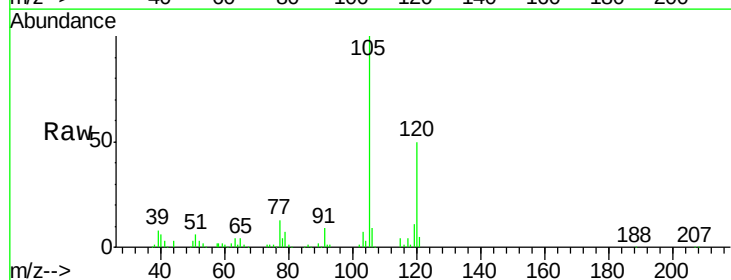
Acq: 4 Mar 2019 16:04

Tgt Ion:105 Resp: 66270

Ion Ratio Lower Upper

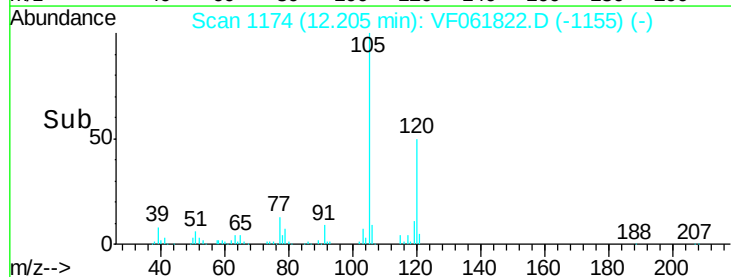
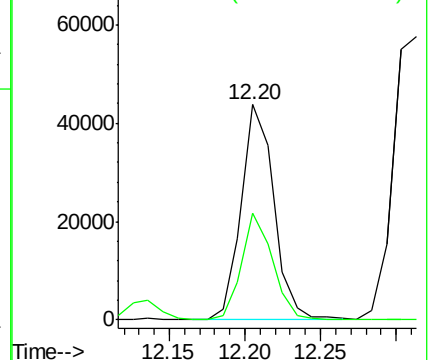
105 100

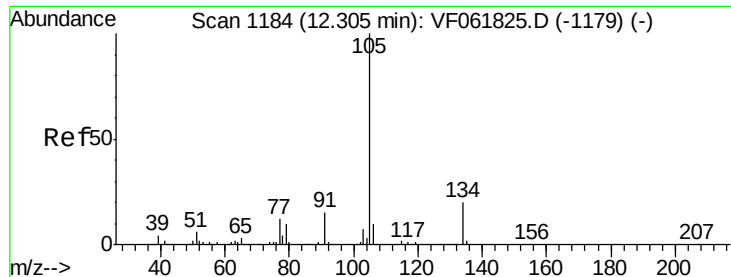
120 49.8 26.1 78.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 4.772 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

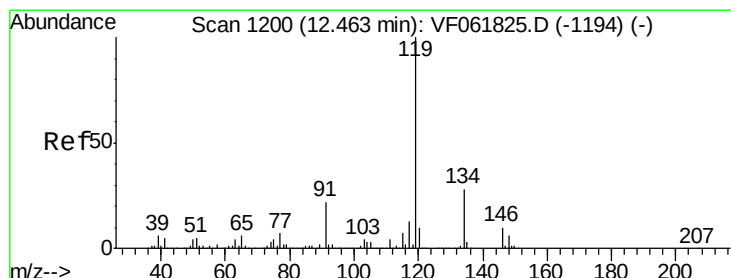
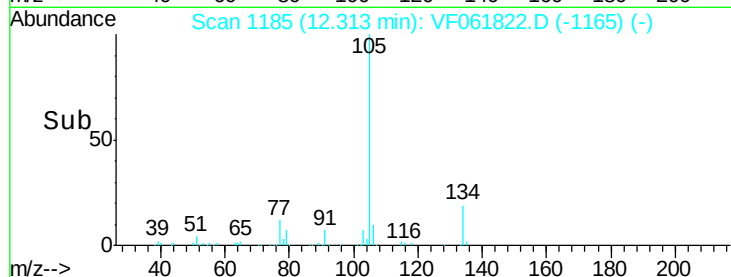
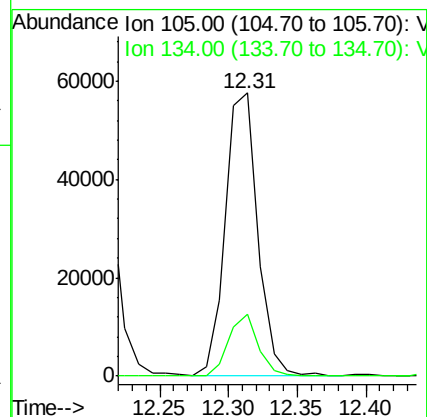
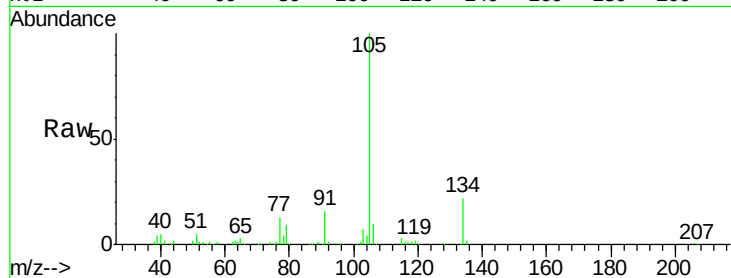
VSTDIC005

Tot Ion:105 Resp: 93320

Ion Ratio Lower Upper

105 100

134 22.0 10.8 32.4



#86

p-Isopropyltoluene

Concen: 4.924 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

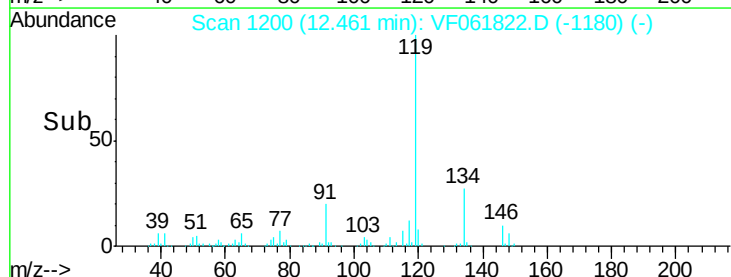
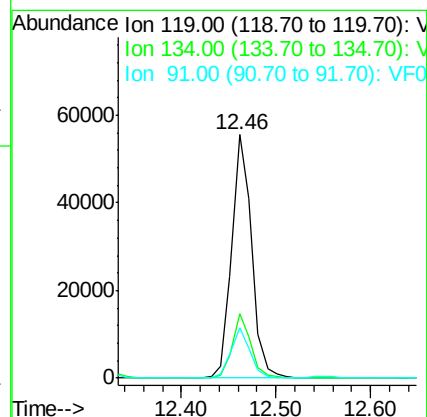
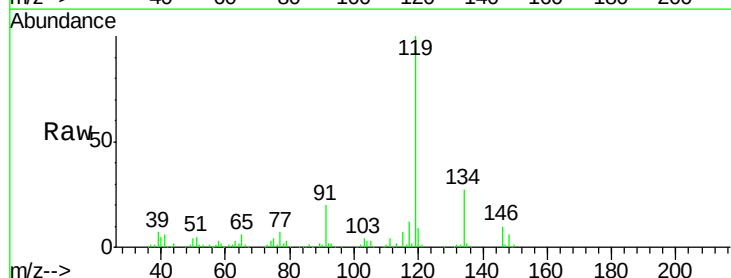
Tgt Ion:119 Resp: 80815

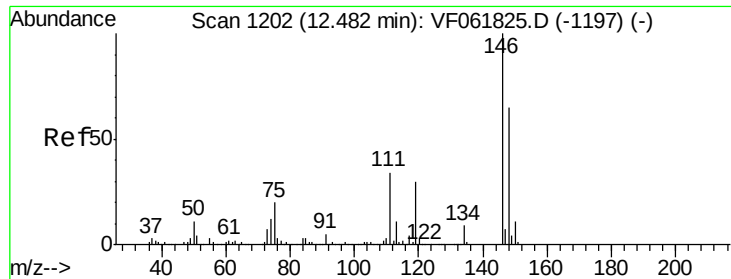
Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.1

91 20.5 10.8 32.4

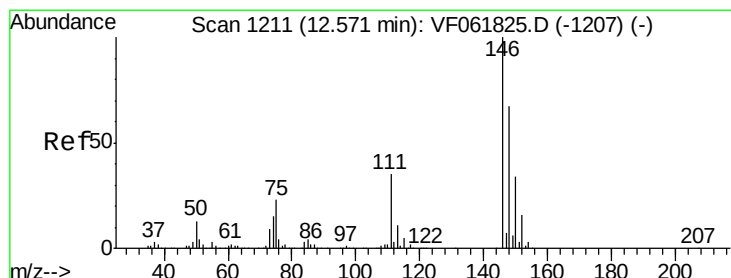
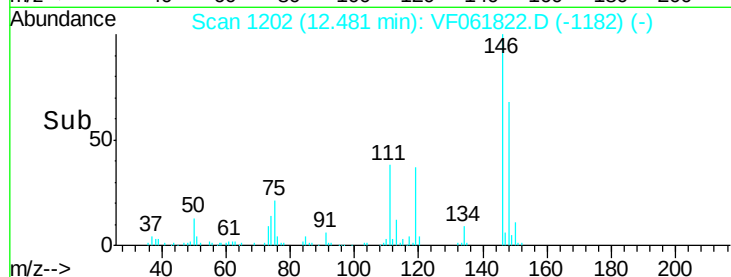
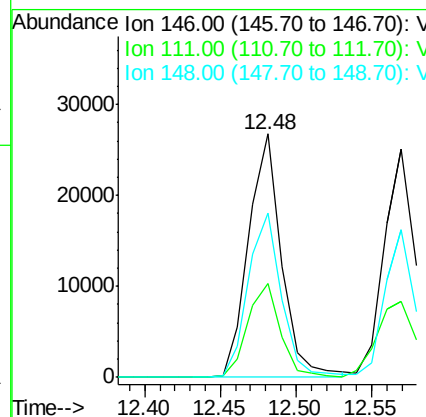
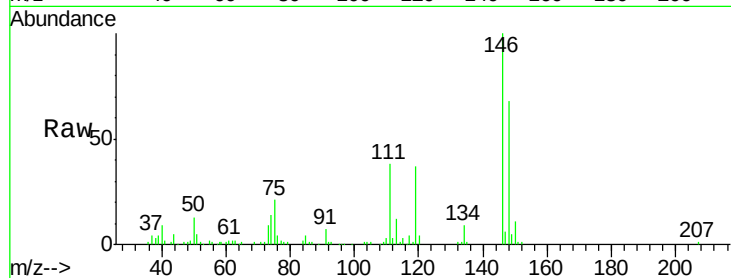




#87
 1,3-Dichlorobenzene
 Concen: 4.955 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

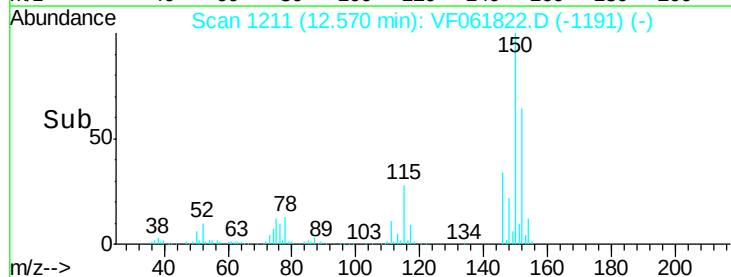
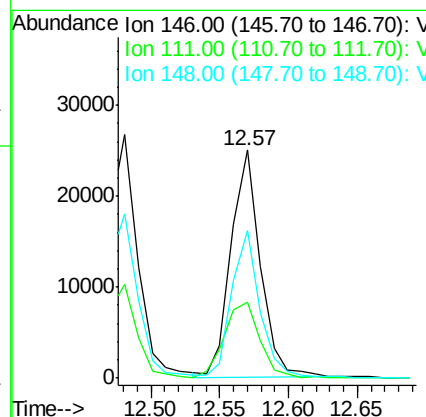
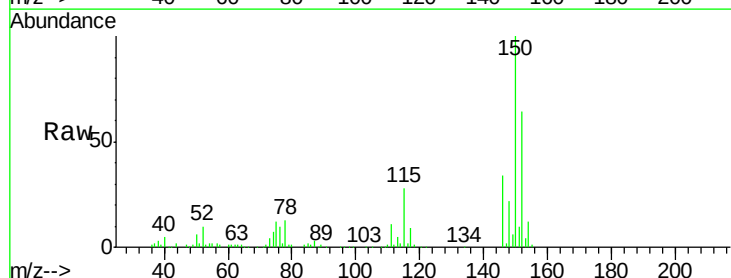
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

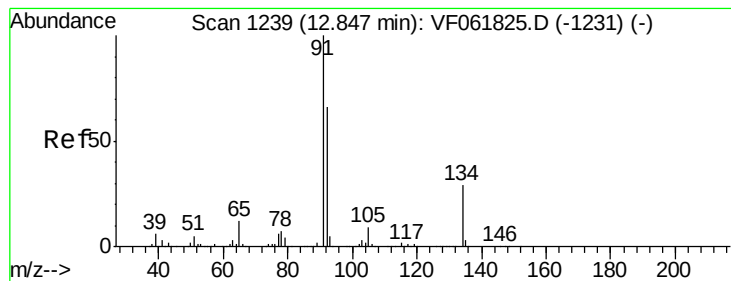
Tot Ion:146 Resp: 40766
 Ion Ratio Lower Upper
 146 100
 111 38.3 17.5 52.6
 148 67.6 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 4.708 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion:146 Resp: 37255
 Ion Ratio Lower Upper
 146 100
 111 33.1 18.4 55.4
 148 64.7 32.2 96.6





#89

n-Butylbenzene

Concen: 5.033 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

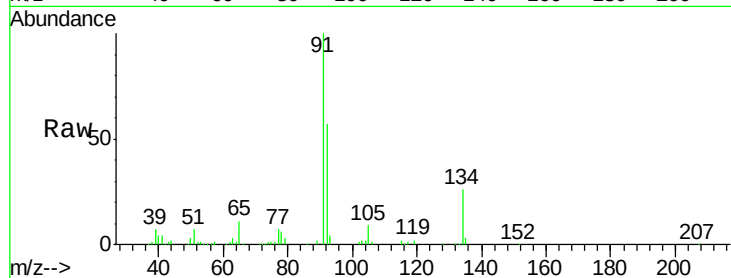
Tot Ion: 91 Resp: 77996

Ion Ratio Lower Upper

91 100

92 57.5 31.4 94.3

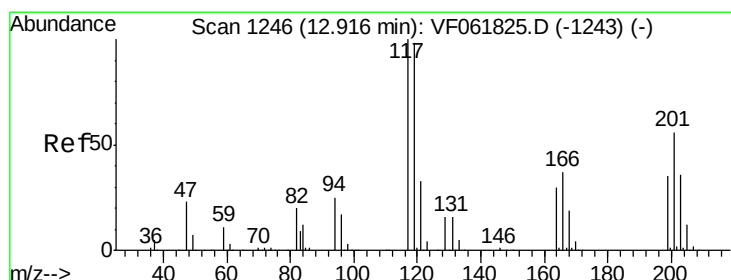
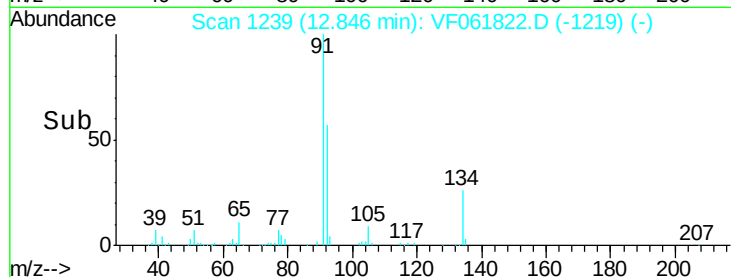
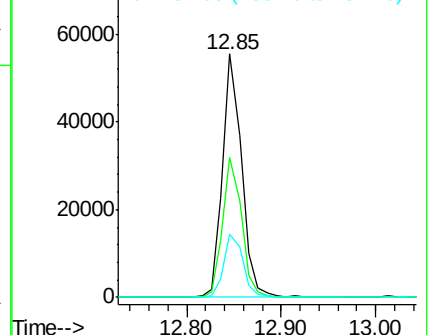
134 25.7 12.3 36.9



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: 4.628 ug/l

RT: 12.91 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VF061822.D

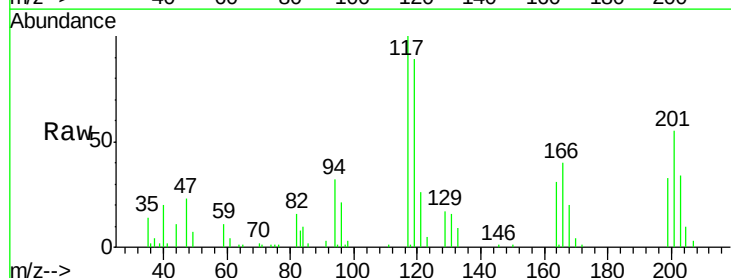
Acq: 4 Mar 2019 16:04

Tgt Ion: 117 Resp: 17665

Ion Ratio Lower Upper

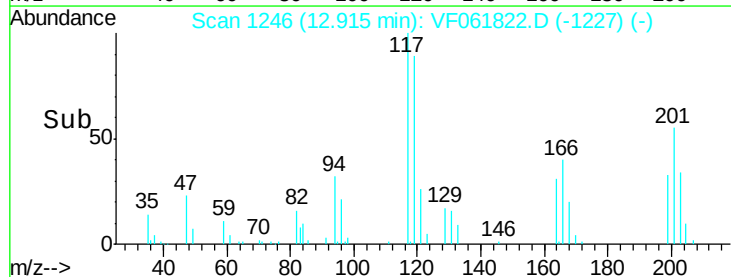
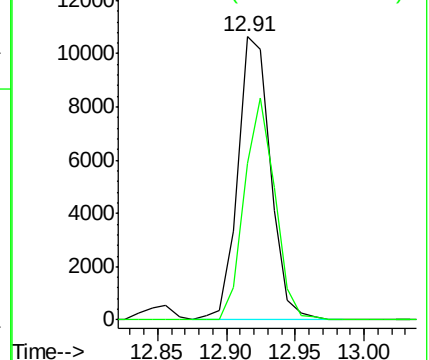
117 100

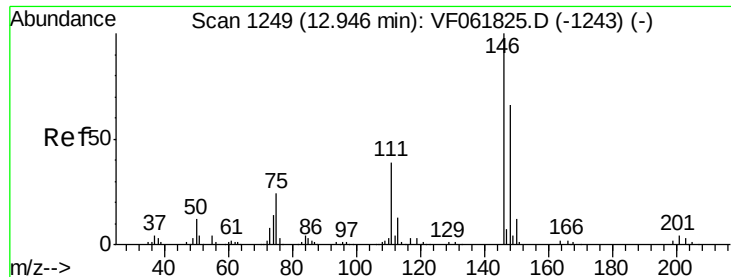
201 55.4 36.2 108.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

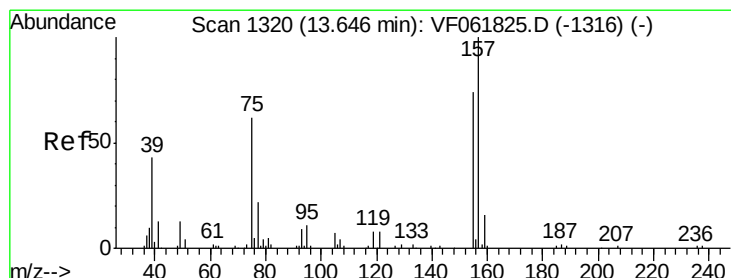
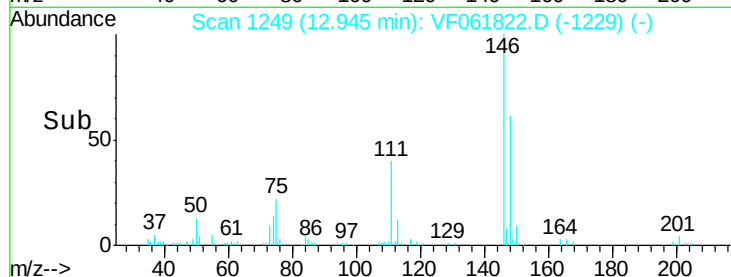
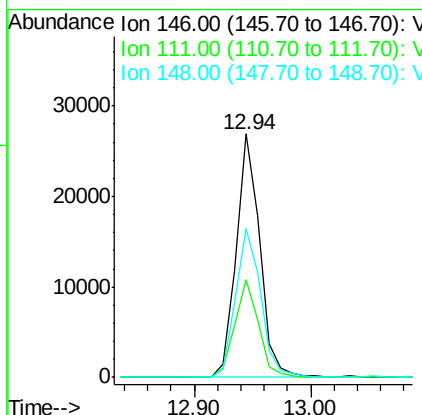
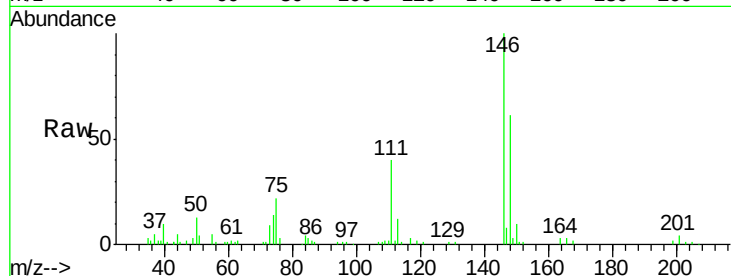




#91
 1,2-Dichlorobenzene
 Concen: 4.828 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

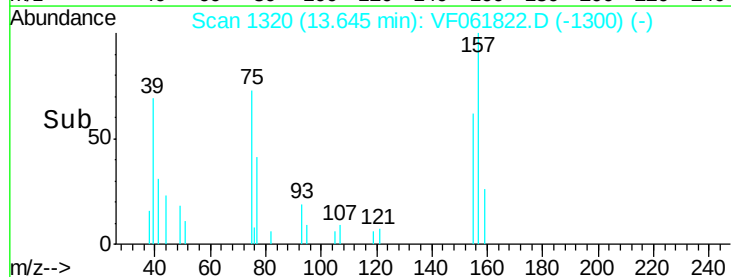
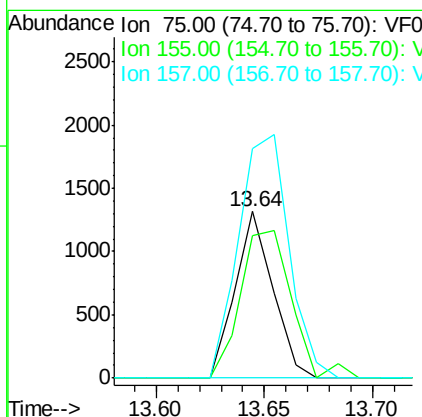
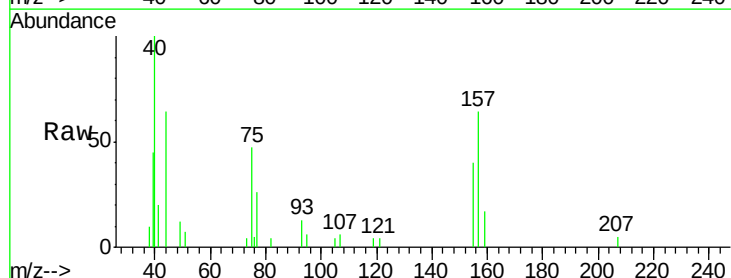
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

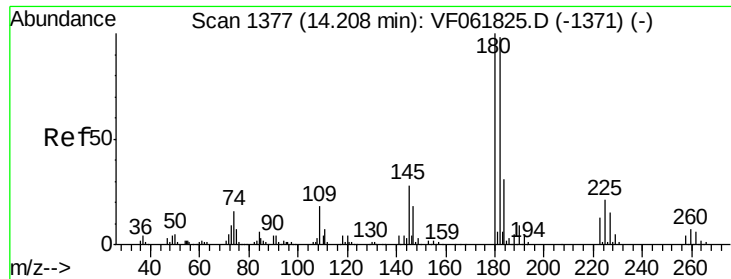
Tot Ion:146 Resp: 37783
 Ion Ratio Lower Upper
 146 100
 111 40.2 20.2 60.5
 148 61.1 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.287 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion: 75 Resp: 1595
 Ion Ratio Lower Upper
 75 100
 155 85.7 48.9 146.8
 157 137.9 58.3 174.8

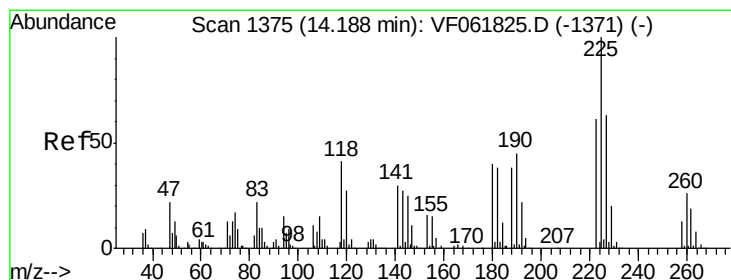
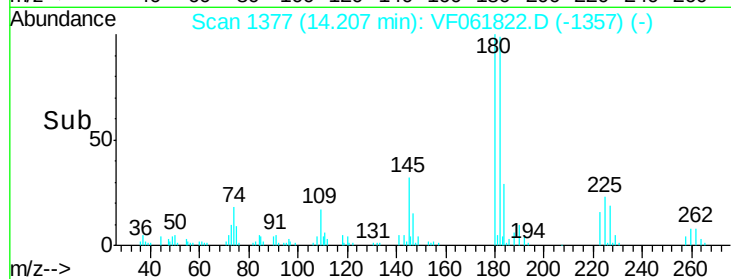
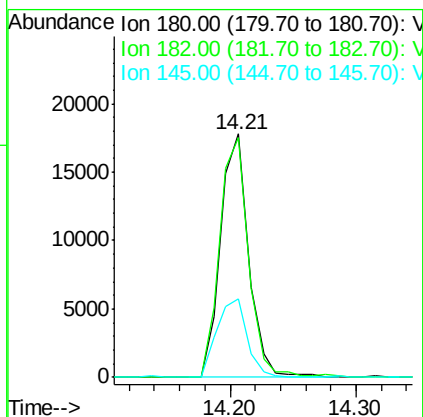
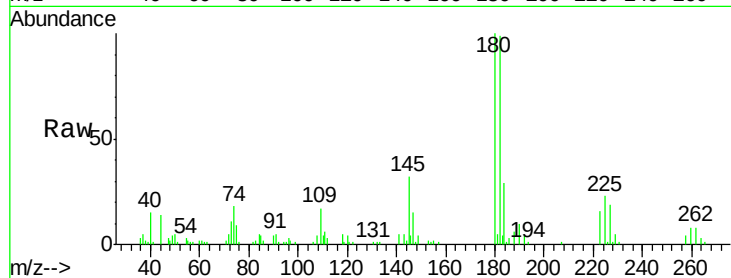




#93
 1,2,4-Trichlorobenzene
 Concen: 4.902 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

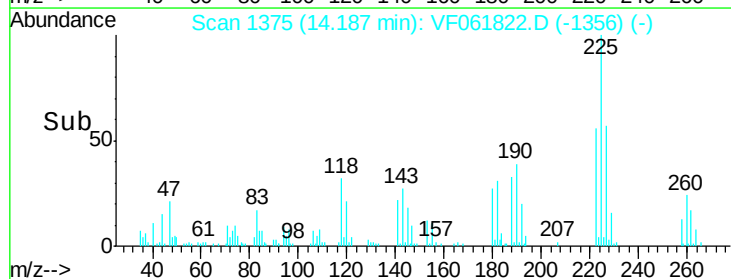
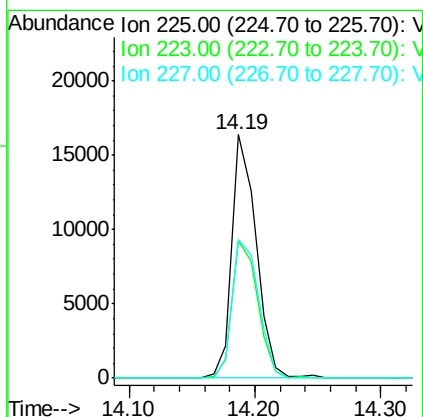
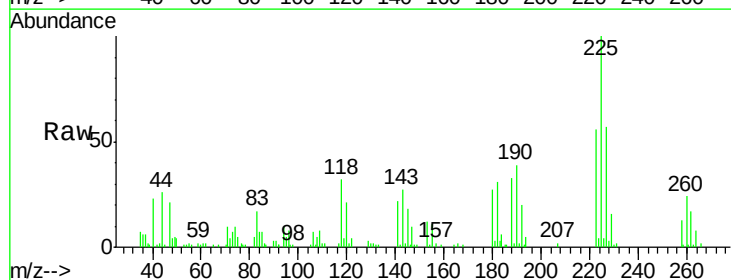
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

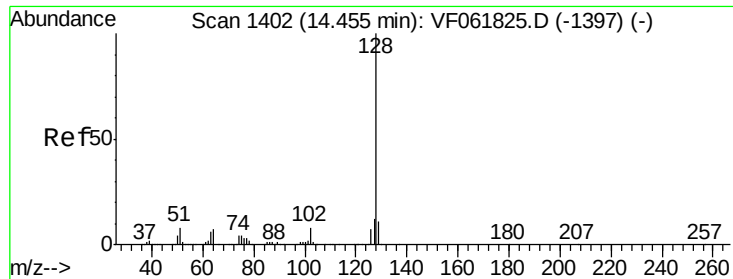
Tot Ion:180 Resp: 27495
 Ion Ratio Lower Upper
 180 100
 182 98.6 48.6 145.9
 145 32.3 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 6.295 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion:225 Resp: 21807
 Ion Ratio Lower Upper
 225 100
 223 56.3 30.9 92.7
 227 57.2 32.1 96.3





#95

Naphthalene

Concen: 4.356 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

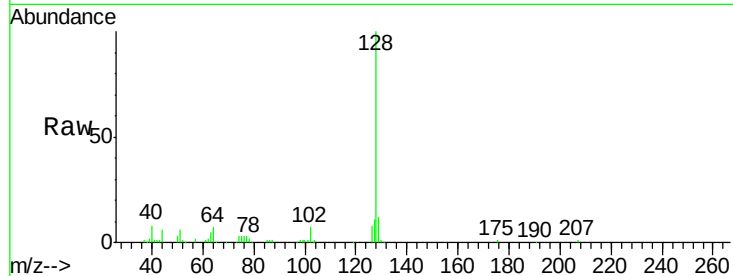
Tot Ion:128 Resp: 42750

Ion Ratio Lower Upper

128 100

127 11.2 9.8 14.6

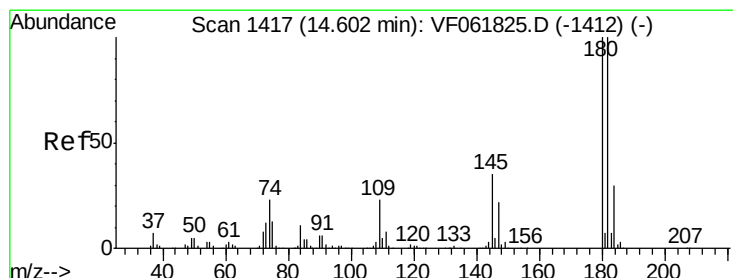
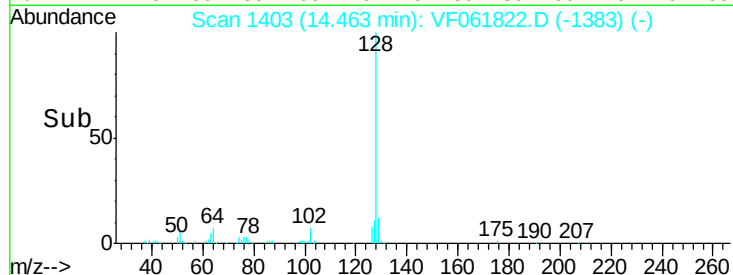
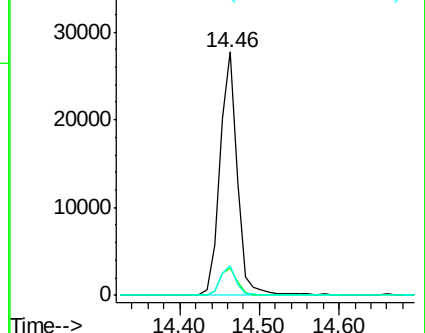
129 12.4 9.4 14.2



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: 4.241 ug/l

RT: 14.61 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

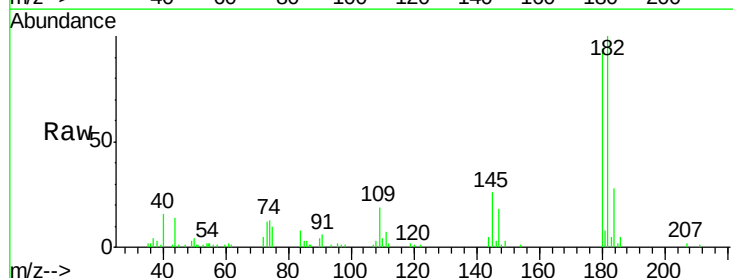
Tgt Ion:180 Resp: 21837

Ion Ratio Lower Upper

180 100

182 106.1 49.0 147.2

145 28.1 15.4 46.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

