

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061542.D
 Acq On : 7 Feb 2019 13:28
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 09 04:32:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	189209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	285019	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	269577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	138722	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	110516	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	
35) Dibromofluoromethane	4.11	113	116317	51.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.44%	
50) Toluene-d8	7.55	98	324135	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
62) 4-Bromofluorobenzene	11.41	95	140186	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	167413	45.032	ug/l	95
3) Chloromethane	1.09	50	125018	45.862	ug/l	95
4) Vinyl Chloride	1.14	62	111469	45.969	ug/l	99
5) Bromomethane	1.33	94	77049	48.727	ug/l	96
6) Chloroethane	1.38	64	54504	50.726	ug/l	97
7) Trichlorofluoromethane	1.47	101	210066	44.562	ug/l	94
8) Diethyl Ether	1.63	74	30239	50.062	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.83	101	105591	46.617	ug/l	95
10) Methyl Iodide	1.90	142	126869	36.129	ug/l	99
11) Tert butyl alcohol	2.56	59	24135	244.084	ug/l	100
12) 1,1-Dichloroethene	1.79	96	81362	48.349	ug/l	93
13) Acrolein	1.99	56	20384	239.776	ug/l	85
14) Allyl chloride	2.09	41	118741	64.056	ug/l	92
15) Acrylonitrile	2.93	53	63600	251.105	ug/l	93
16) Acetone	2.23	43	127279	271.595	ug/l	99
17) Carbon Disulfide	1.82	76	235378	44.858	ug/l	99
18) Methyl Acetate	2.34	43	46293	49.811	ug/l #	92
19) Methyl tert-butyl Ether	2.43	73	171052	45.343	ug/l	99
20) Methylene Chloride	2.17	84	31292	18.566	ug/l	94
21) trans-1,2-Dichloroethene	2.31	96	82592	44.608	ug/l	97
22) Diisopropyl ether	2.79	45	280239	46.796	ug/l	98
23) Vinyl Acetate	3.18	43	674081	255.833	ug/l	100
24) 1,1-Dichloroethane	2.86	63	174623	46.460	ug/l	99
25) 2-Butanone	4.32	43	192461	246.960	ug/l	99
26) 2,2-Dichloropropane	3.59	77	102311	44.305	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	125185	45.803	ug/l	98
28) Bromochloromethane	3.71	49	72592	42.966	ug/l #	99
29) Tetrahydrofuran	4.07	42	77536	231.058	ug/l	96
30) Chloroform	3.85	83	238895	47.096	ug/l	98
31) Cyclohexane	3.68	56	93560	24.919	ug/l	97
32) 1,1,1-Trichloroethane	4.09	97	178723	48.053	ug/l	94
36) 1,1-Dichloropropene	4.27	75	176478	53.403	ug/l	99
37) Ethyl Acetate	4.10	43	73722	55.809	ug/l #	96
38) Carbon Tetrachloride	3.99	117	143107	49.534	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	184412	51.493	ug/l	98
40) Benzene	4.63	78	389614	52.984	ug/l	97
41) Methacrylonitrile	4.74	41	38951	55.415	ug/l	88
42) 1,2-Dichloroethane	4.93	62	145136	55.388	ug/l	100
43) Isopropyl Acetate	6.95	43	89558	54.018	ug/l #	86
44) Trichloroethene	5.50	130	126984	56.293	ug/l	99
45) 1,2-Dichloropropane	6.23	63	100427	52.036	ug/l	97
46) Dibromomethane	6.08	93	73057	56.930	ug/l	97
47) Bromodichloromethane	6.37	83	185694	58.485	ug/l	96
48) Methyl methacrylate	6.71	41	62582	56.213	ug/l	97
49) 1,4-Dioxane	6.70	88	8829	1146.260	ug/l	91
51) 4-Methyl-2-Pentanone	8.25	43	335874	275.570	ug/l	97
52) Toluene	7.62	92	249780	51.581	ug/l	98
53) t-1,3-Dichloropropene	8.27	75	138718	55.020	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	179249	56.878	ug/l	94
55) 1,1,2-Trichloroethane	8.49	97	80515	58.551	ug/l	99
56) Ethyl methacrylate	8.61	69	88663	55.419	ug/l	97
57) 1,3-Dichloropropane	8.84	76	134123	52.036	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.28	63	58451	337.578	ug/l	97
59) 2-Hexanone	9.48	43	258886	304.602	ug/l	99
60) Dibromochloromethane	8.70	129	110858	55.143	ug/l	97
61) 1,2-Dibromoethane	8.98	107	85263	54.162	ug/l	95
64) Tetrachloroethene	8.14	164	105809	52.193	ug/l	96
65) Chlorobenzene	9.79	112	267088	48.721	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	114241	52.312	ug/l	100
67) Ethyl Benzene	9.89	91	499779	49.898	ug/l	97
68) m/p-Xylenes	10.12	106	350787	97.376	ug/l	99
69) o-Xylene	10.70	106	203099	52.019	ug/l	98
70) Styrene	10.78	104	272795	51.043	ug/l	98
71) Bromoform	10.76	173	59309	60.444	ug/l #	97
73) Isopropylbenzene	11.12	105	601776	53.337	ug/l	99
74) N-amyl acetate	11.37	43	147329	55.223	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	100171	49.838	ug/l	95
76) 1,2,3-Trichloropropane	11.79	75	71899	49.783	ug/l	95
77) Bromobenzene	11.48	156	126710	53.178	ug/l	86
78) n-propylbenzene	11.59	91	666808	48.324	ug/l	98
79) 2-Chlorotoluene	11.71	91	386389	49.358	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	448524	49.260	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	45406	72.323	ug/l #	85
82) 4-Chlorotoluene	11.89	91	386707	48.954	ug/l	98
83) tert-Butylbenzene	12.13	119	493301	52.345	ug/l	96
84) 1,2,4-Trimethylbenzene	12.19	105	462444	49.307	ug/l	95
85) sec-Butylbenzene	12.30	105	640665	50.059	ug/l	99
86) p-Isopropyltoluene	12.45	119	539671	51.368	ug/l	96
87) 1,3-Dichlorobenzene	12.47	146	231903	48.834	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	232901	51.725	ug/l	96
89) n-Butylbenzene	12.84	91	562297	51.897	ug/l	97
90) Hexachloroethane	12.91	117	139041	56.144	ug/l	82
91) 1,2-Dichlorobenzene	12.93	146	225079	50.496	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	21085	59.144	ug/l	75

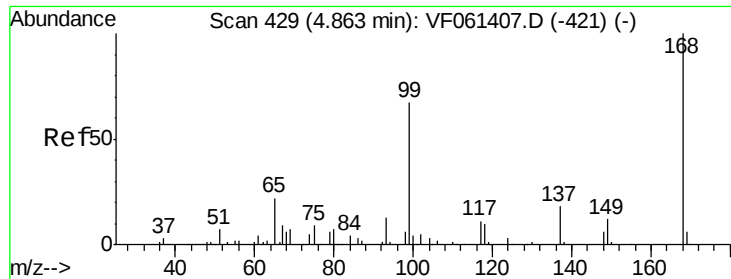
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	165595	53.033	ug/l	98
94) Hexachlorobutadiene	14.19	225	109071	56.292	ug/l	98
95) Naphthalene	14.45	128	319037	53.778	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	153340	53.049	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

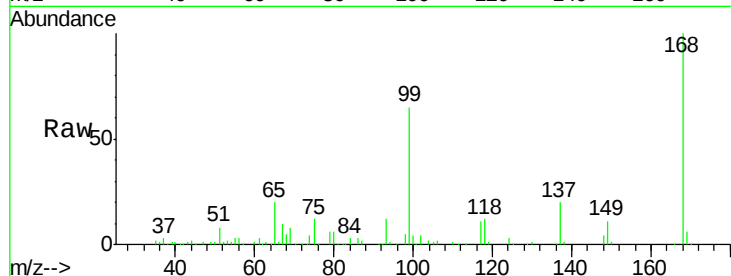
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 189209

Ion Ratio Lower Upper

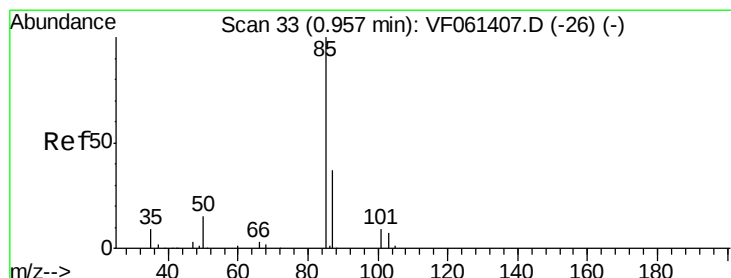
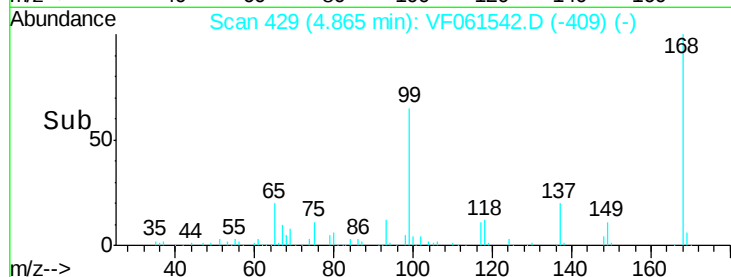
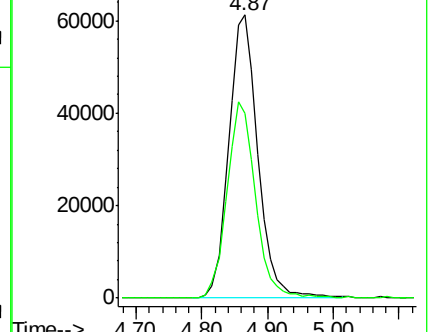
168 100

99 65.3 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 45.032 ug/l

RT: 0.96 min Scan# 33

Delta R.T. 0.00 min

Lab File: VF061542.D

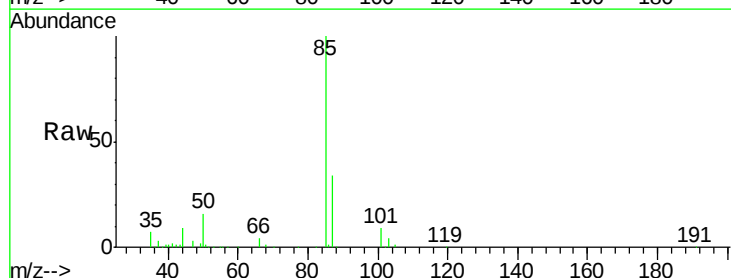
Acq: 7 Feb 2019 13:28

Tgt Ion: 85 Resp: 167413

Ion Ratio Lower Upper

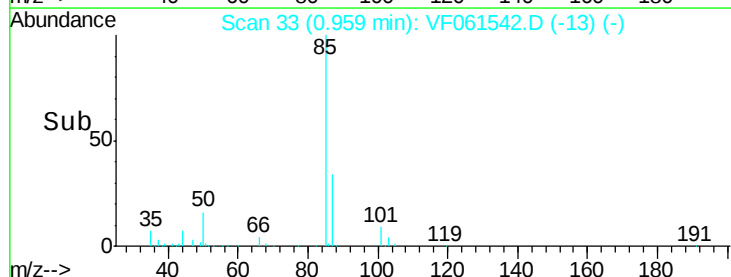
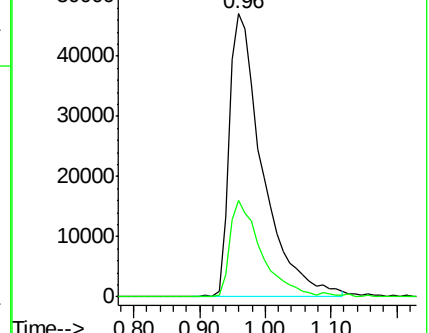
85 100

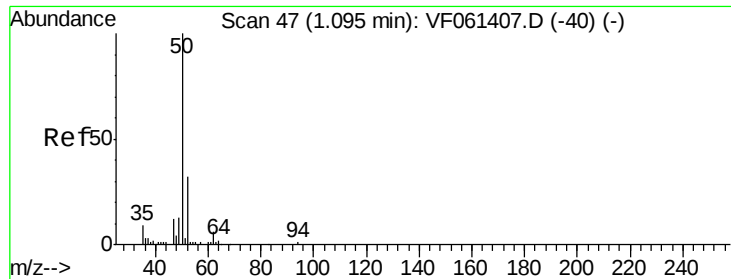
87 33.9 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 45.862 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

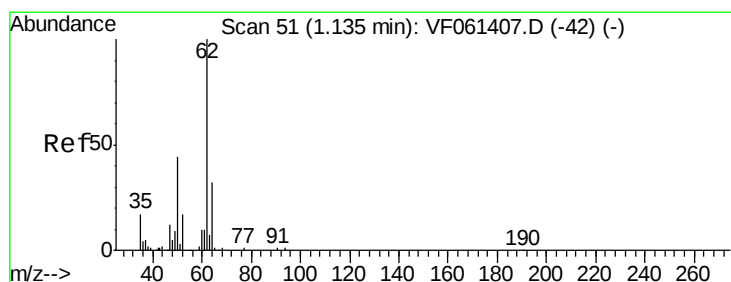
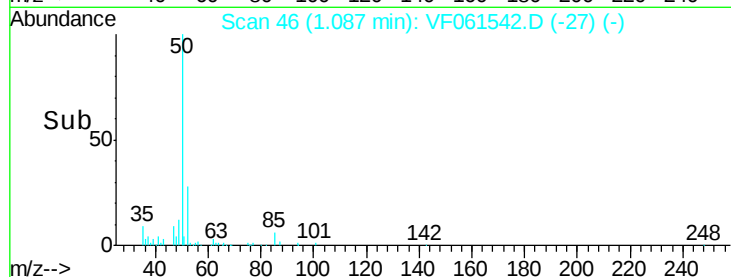
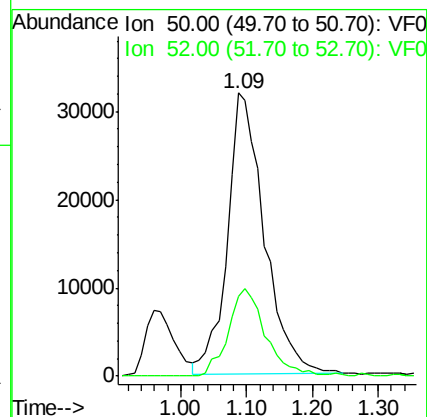
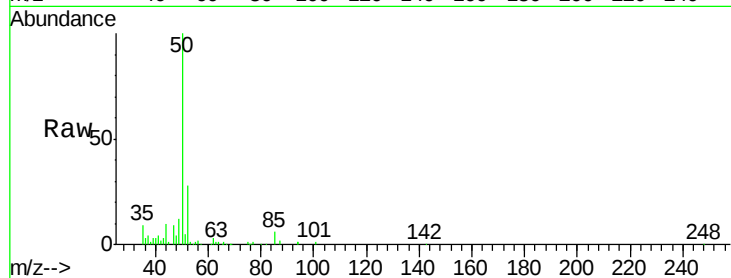
ClientSampleId :

Tot Ion: 50 Resp: 125018

Ion Ratio Lower Upper

50 100

52 28.1 24.6 36.8



#4

Vinyl Chloride

Concen: 45.969 ug/l

RT: 1.14 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF061542.D

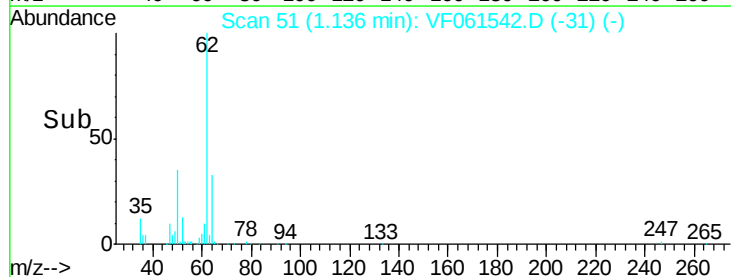
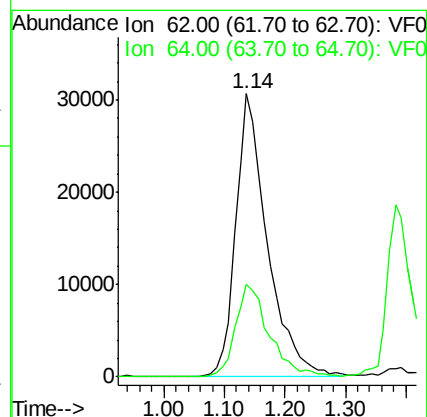
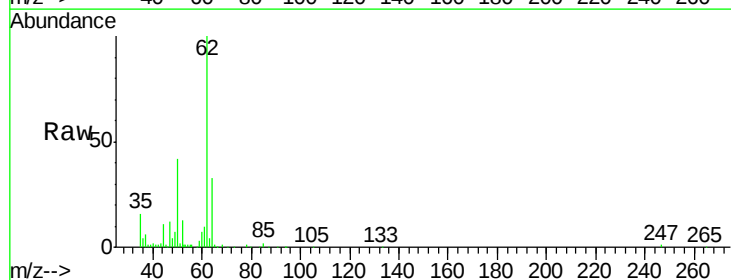
Acq: 7 Feb 2019 13:28

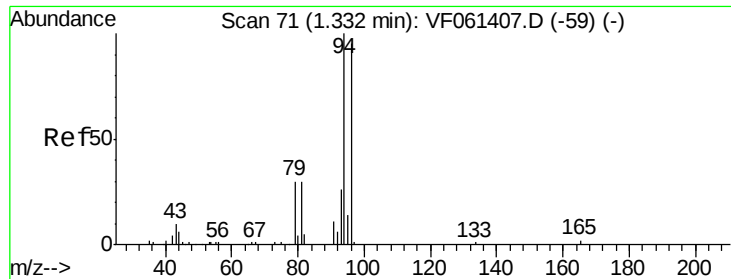
Tgt Ion: 62 Resp: 111469

Ion Ratio Lower Upper

62 100

64 32.7 25.6 38.4





#5

Bromomethane

Concen: 48.727 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

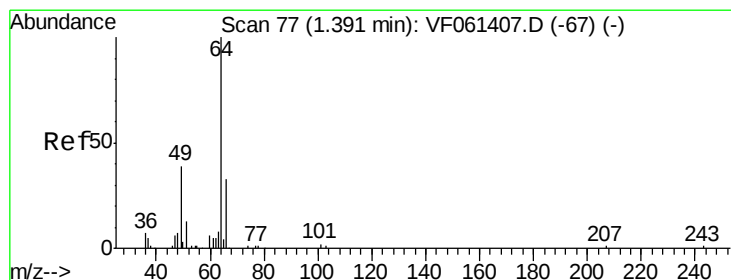
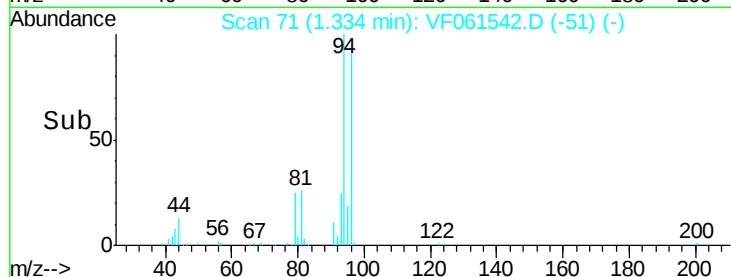
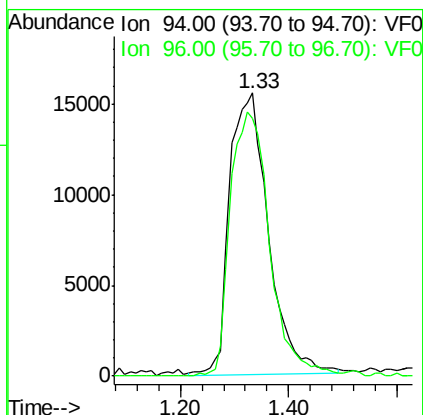
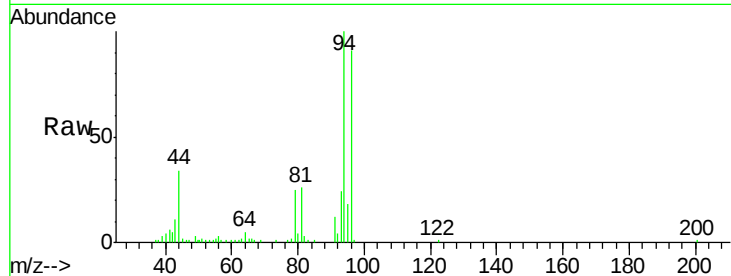
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 77049

Ion Ratio Lower Upper

94 100

96 91.0 76.0 114.0



#6

Chloroethane

Concen: 50.726 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061542.D

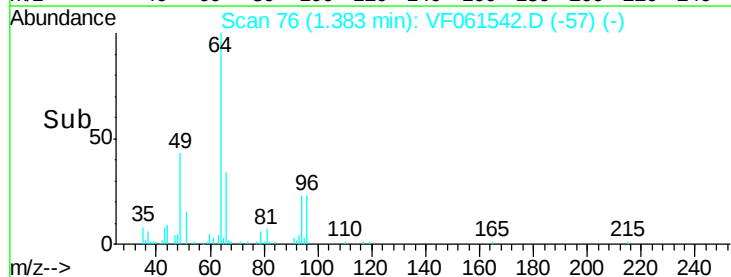
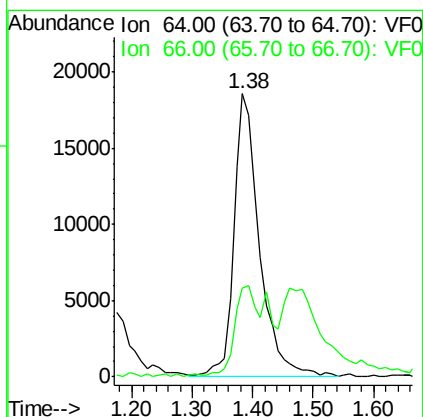
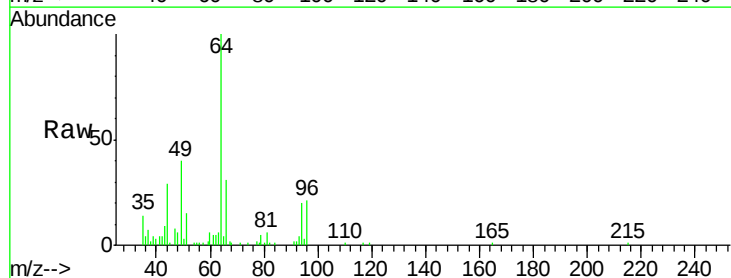
Acq: 7 Feb 2019 13:28

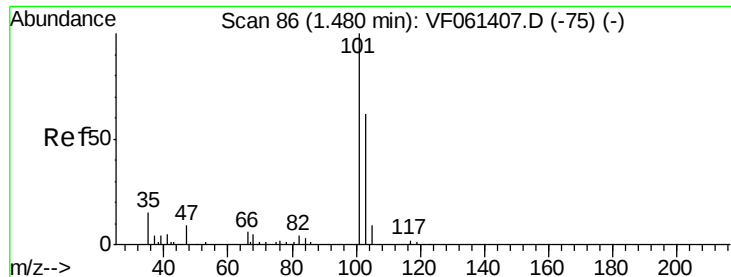
Tgt Ion: 64 Resp: 54504

Ion Ratio Lower Upper

64 100

66 31.5 26.6 40.0



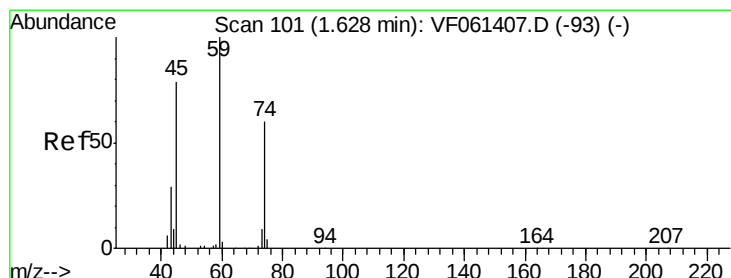
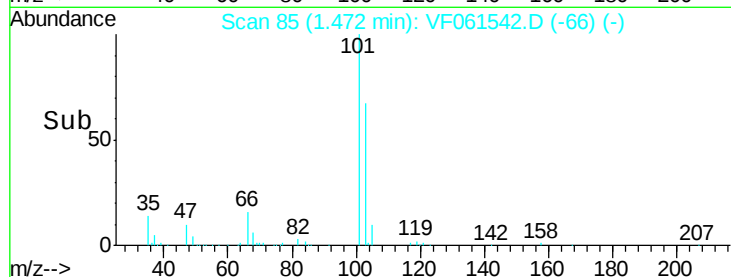
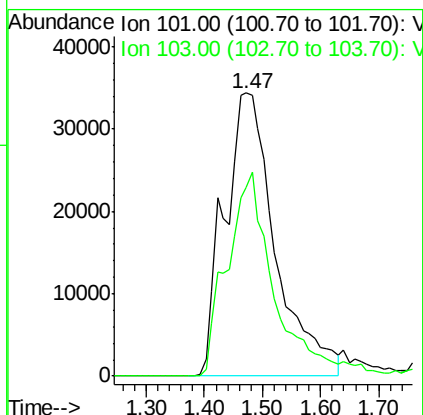
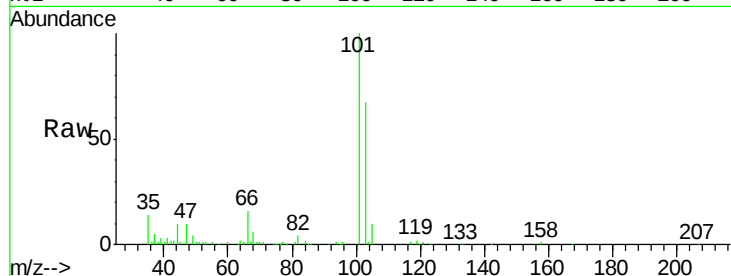


#7

Trichlorofluoromethane
 Concen: 44.562 ug/l
 RT: 1.47 min Scan# 85
 Delta R.T. -0.01 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Instrument :
 MSVOA_F
 ClientSampleId :

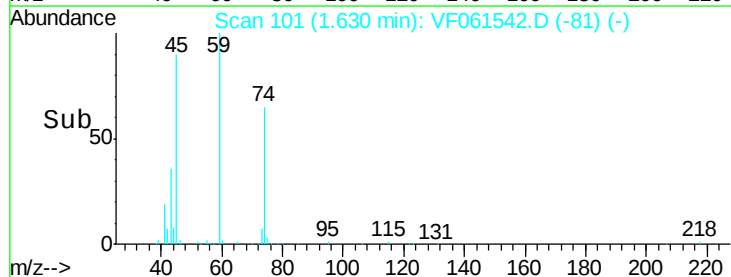
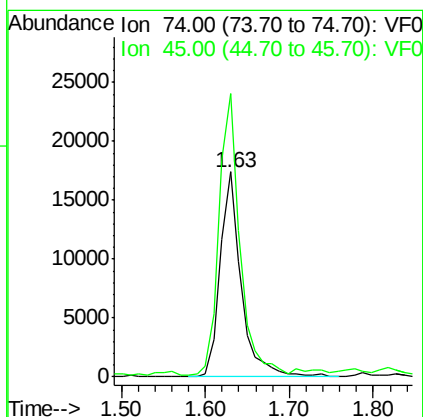
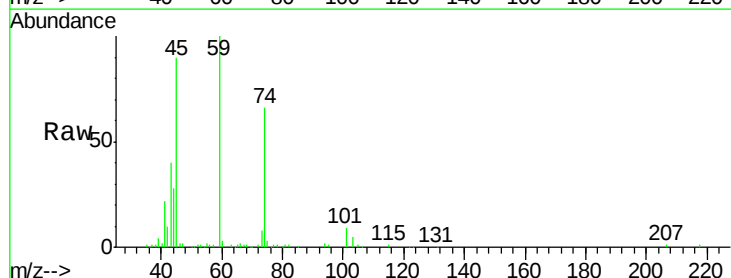
Tot Ion:101 Resp: 210066
 Ion Ratio Lower Upper
 101 100
 103 66.7 49.7 74.5



#8

Diethyl Ether
 Concen: 50.062 ug/l
 RT: 1.63 min Scan# 101
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Tgt Ion: 74 Resp: 30239
 Ion Ratio Lower Upper
 74 100
 45 137.9 65.8 197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.617 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

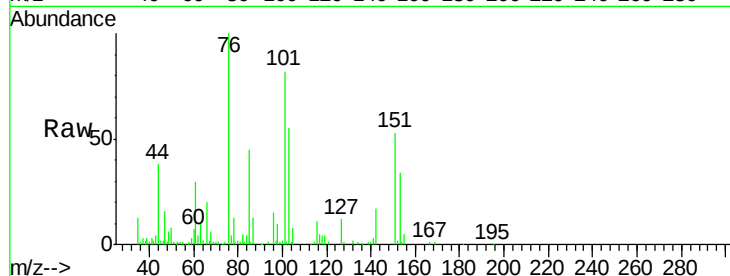
Tot Ion:101 Resp: 105591

Ion Ratio Lower Upper

101 100

85 55.2 41.9 62.9

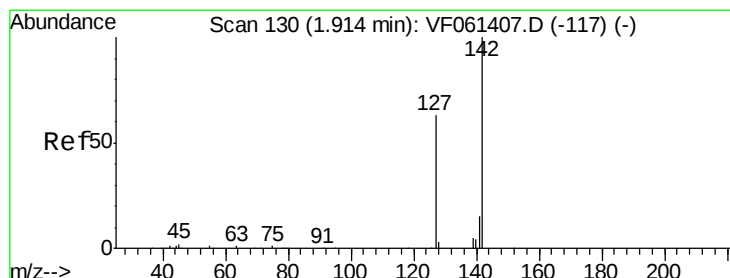
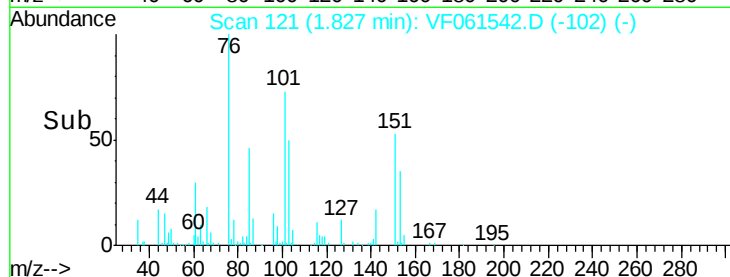
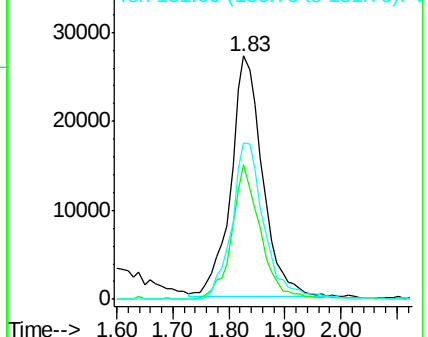
151 64.1 55.1 82.7



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: 36.129 ug/l

RT: 1.90 min Scan# 128

Delta R.T. -0.02 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

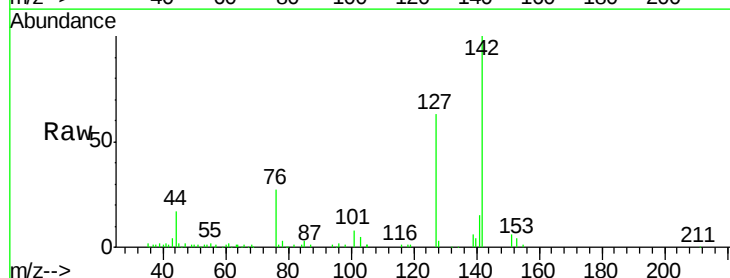
Tgt Ion:142 Resp: 126869

Ion Ratio Lower Upper

142 100

127 62.6 50.7 76.1

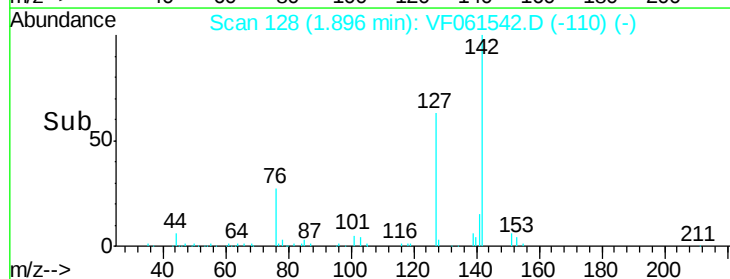
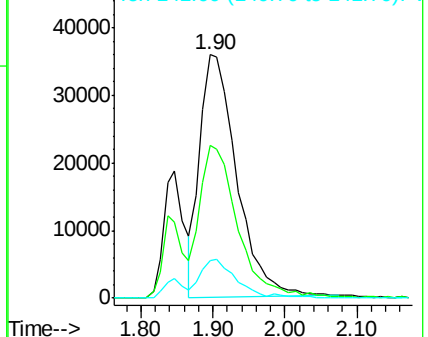
141 15.4 11.8 17.6

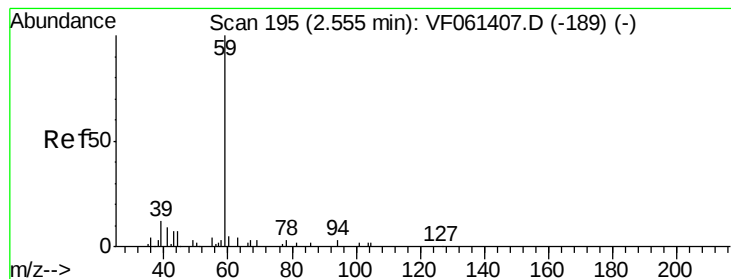


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



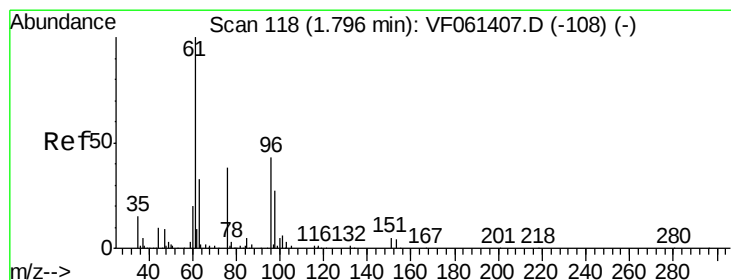
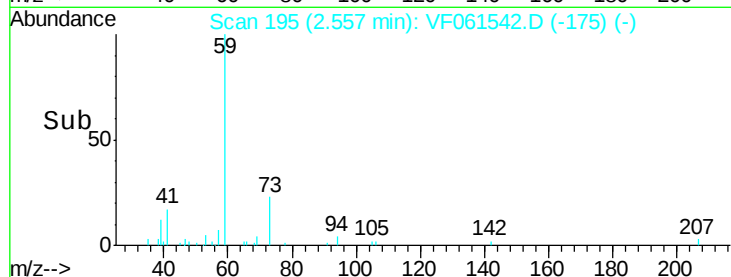
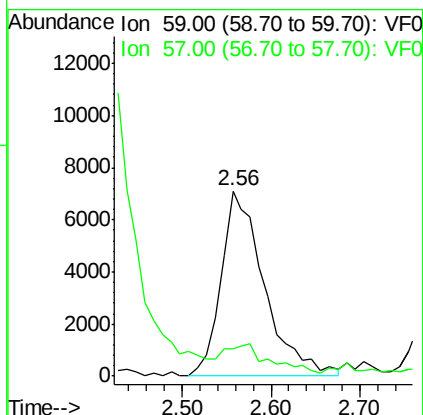
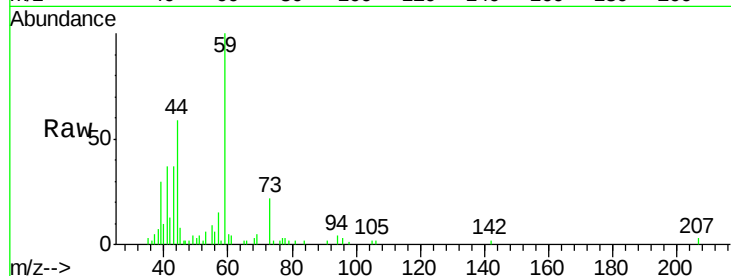


#11

Tert butyl alcohol
Concen: 244.084 ug/l
RT: 2.56 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

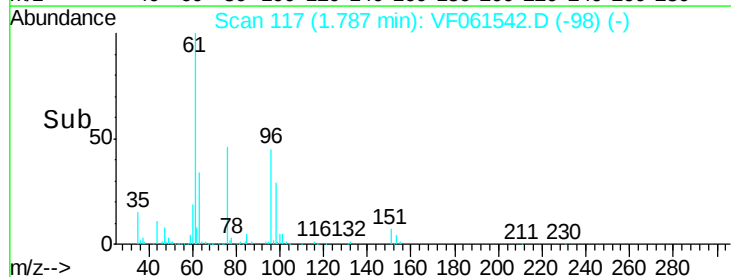
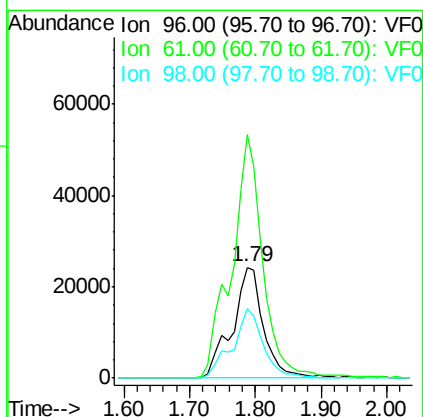
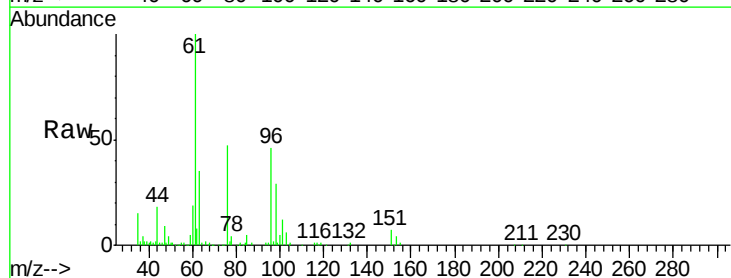
Tot Ion: 59 Resp: 24135
Ion Ratio Lower Upper
59 100
57 14.7 11.9 17.9

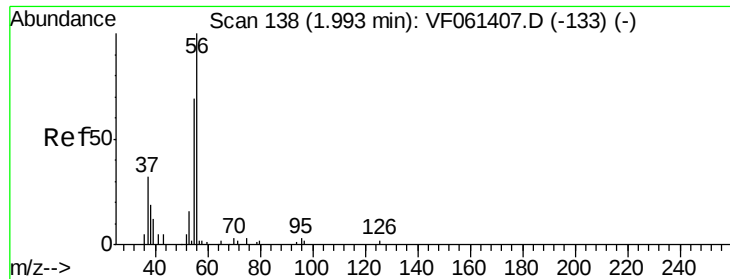


#12

1,1-Dichloroethene
Concen: 48.349 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion: 96 Resp: 81362
Ion Ratio Lower Upper
96 100
61 219.7 186.9 280.3
98 63.0 53.0 79.4

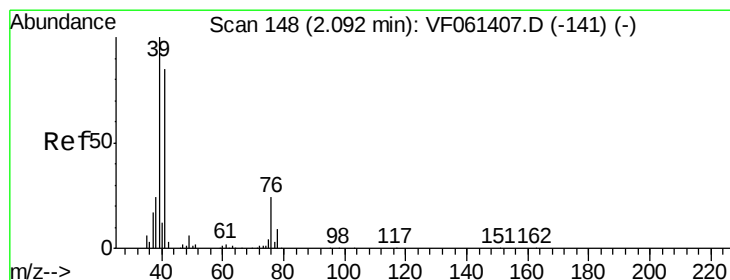
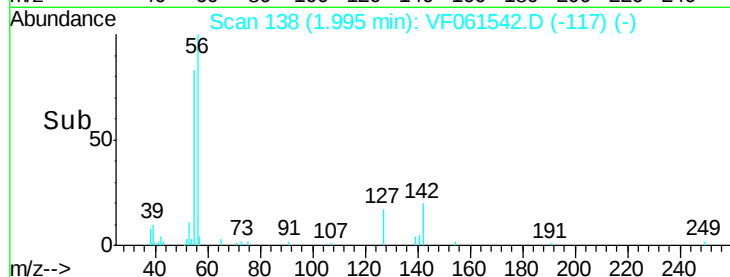
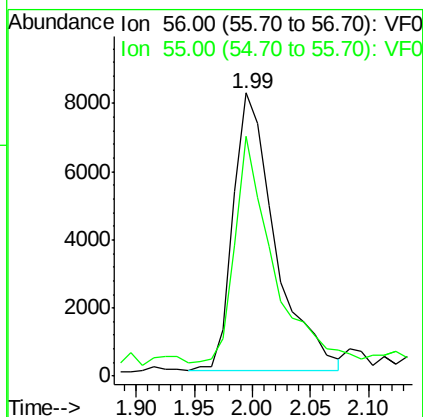
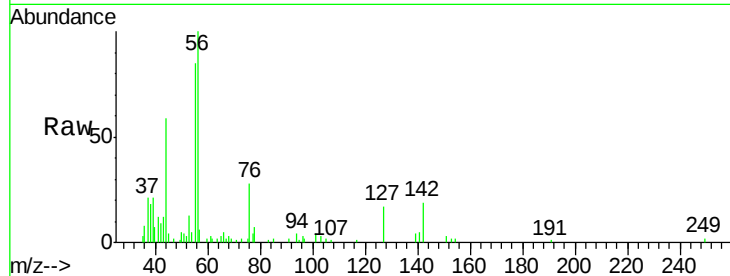




#13
Acrolein
Concen: 239.776 ug/l
RT: 1.99 min Scan# 138
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

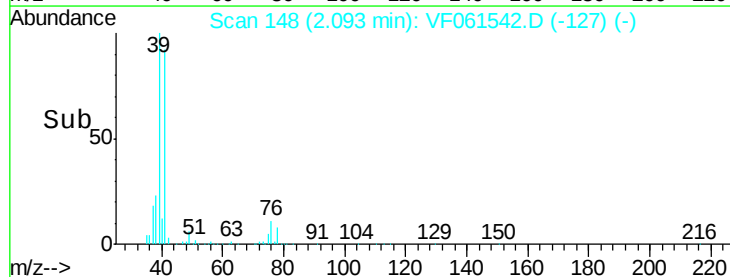
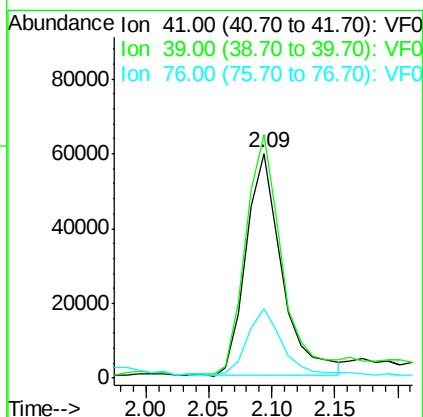
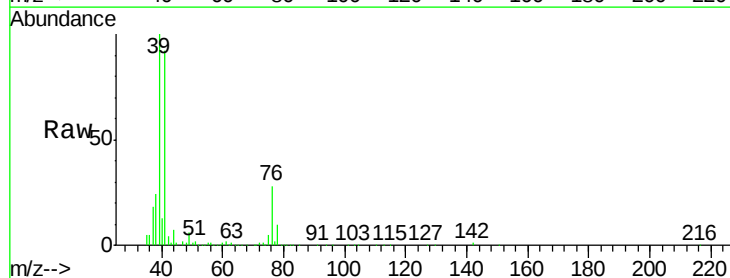
Instrument :
MSVOA_F
ClientSampleId :

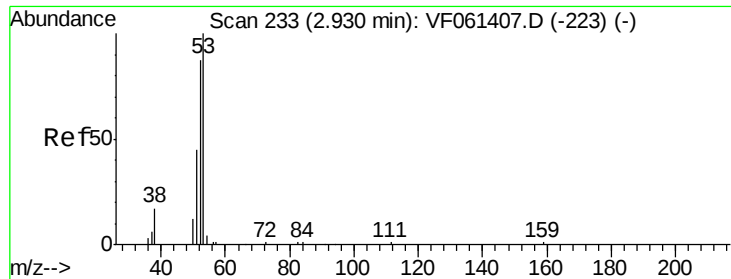
Tot Ion: 56 Resp: 20384
Ion Ratio Lower Upper
56 100
55 84.8 57.5 86.3



#14
Allyl chloride
Concen: 64.056 ug/l
RT: 2.09 min Scan# 148
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion: 41 Resp: 118741
Ion Ratio Lower Upper
41 100
39 108.4 94.6 141.8
76 30.8 25.9 38.9





#15

Acrylonitrile

Concen: 251.105 ug/l

RT: 2.93 min Scan# 233

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

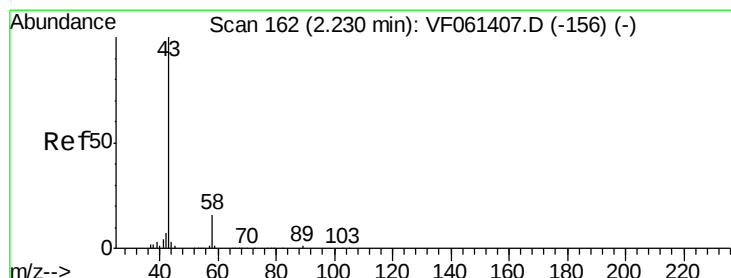
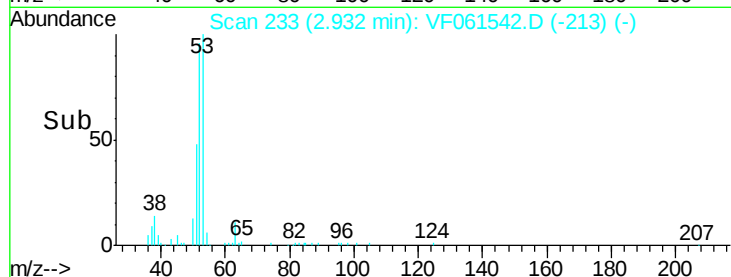
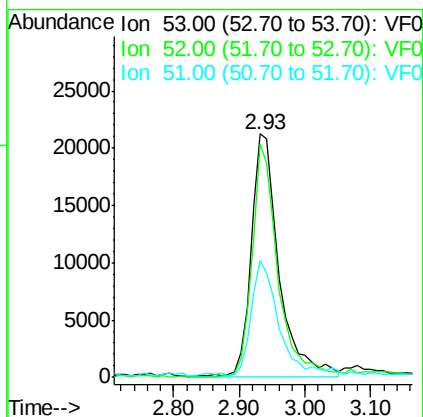
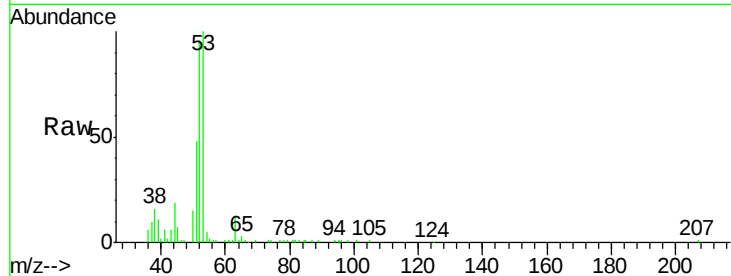
Tot Ion: 53 Resp: 63600

Ion Ratio Lower Upper

53 100

52 95.6 69.6 104.4

51 47.8 36.8 55.2



#16

Acetone

Concen: 271.595 ug/l

RT: 2.23 min Scan# 162

Delta R.T. 0.00 min

Lab File: VF061542.D

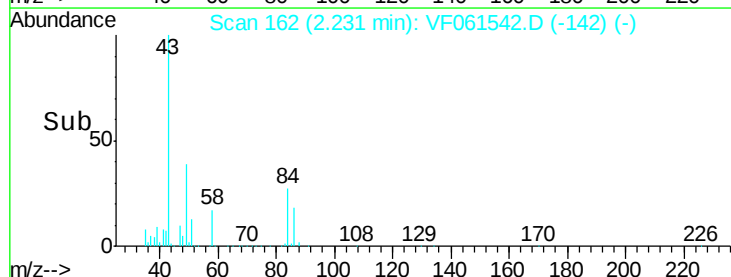
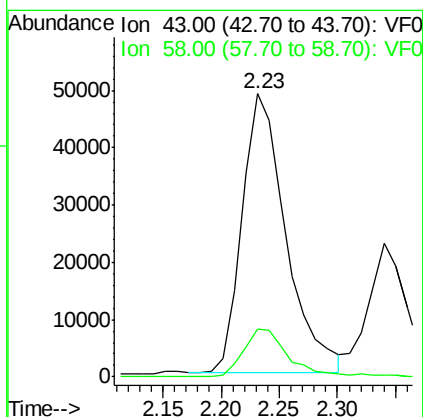
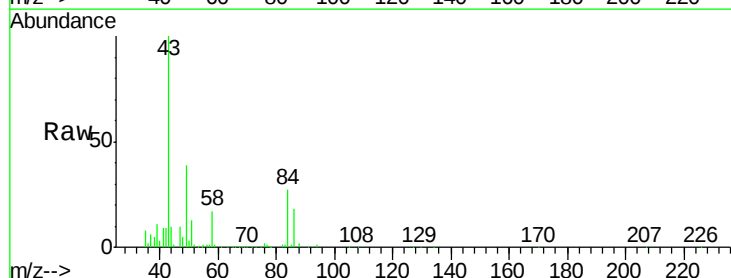
Acq: 7 Feb 2019 13:28

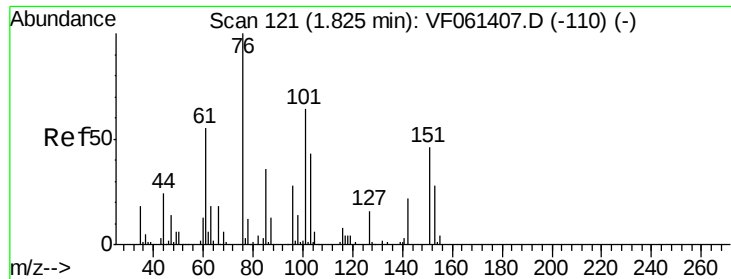
Tgt Ion: 43 Resp: 127279

Ion Ratio Lower Upper

43 100

58 17.0 13.3 19.9

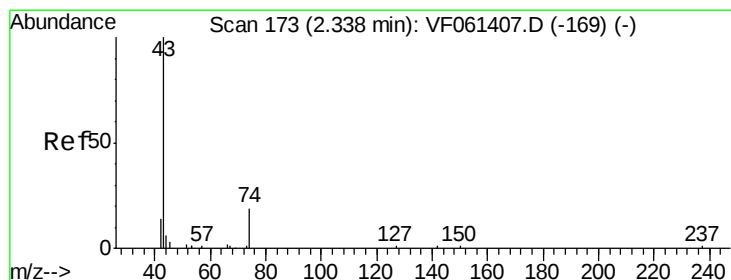
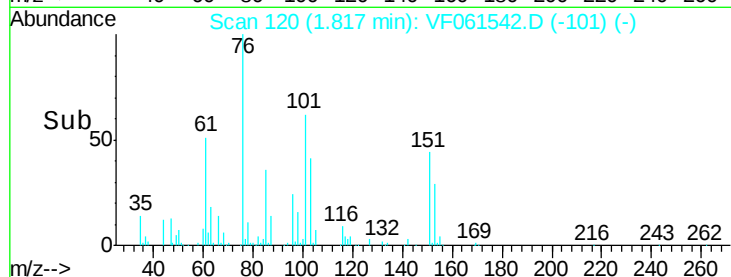
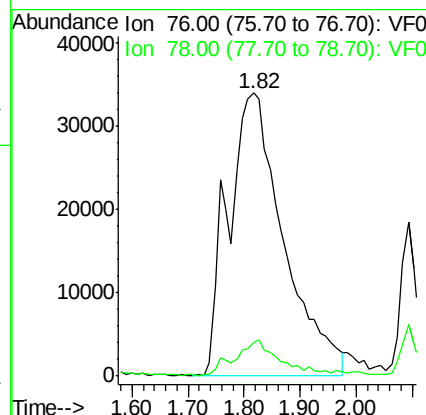
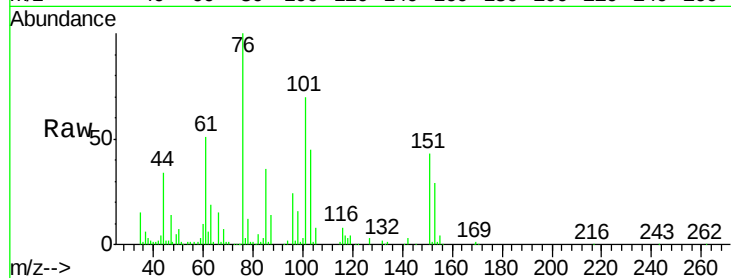




#17
Carbon Disulfide
Concen: 44.858 ug/l
RT: 1.82 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

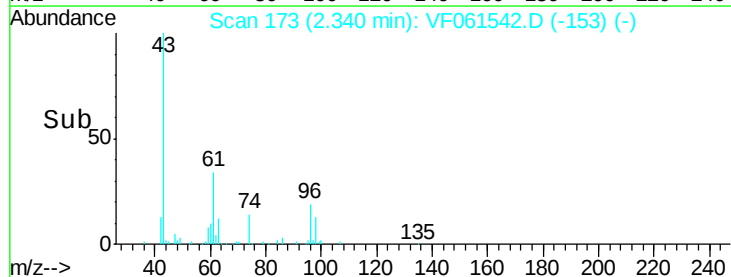
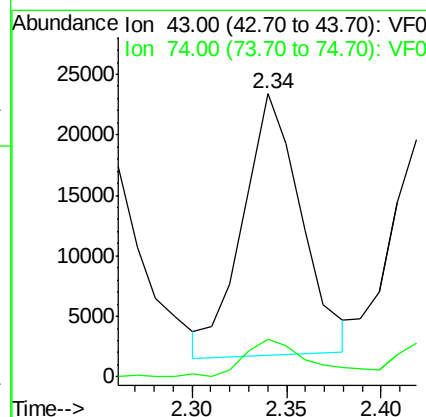
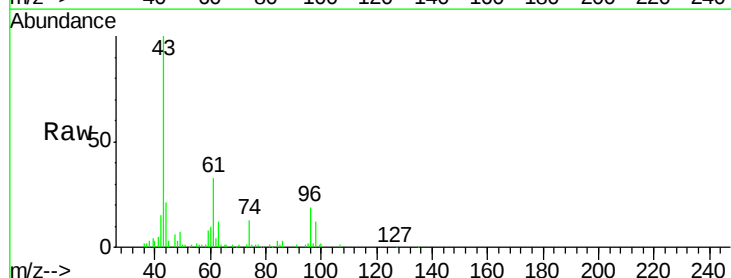
Instrument :
MSVOA_F
ClientSampleId :

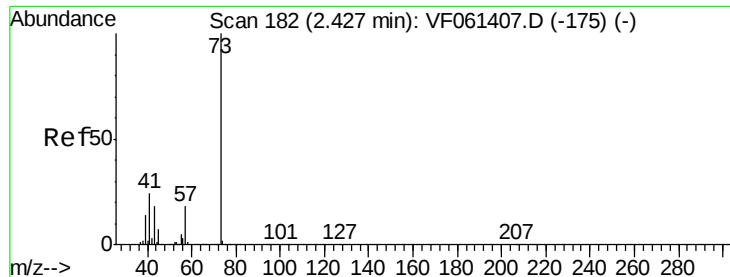
Tot Ion: 76 Resp: 235378
Ion Ratio Lower Upper
76 100
78 11.8 9.6 14.4



#18
Methyl Acetate
Concen: 49.811 ug/l
RT: 2.34 min Scan# 173
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion: 43 Resp: 46293
Ion Ratio Lower Upper
43 100
74 13.3 13.4 20.0#

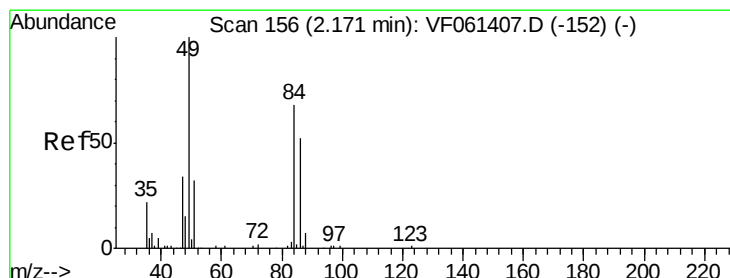
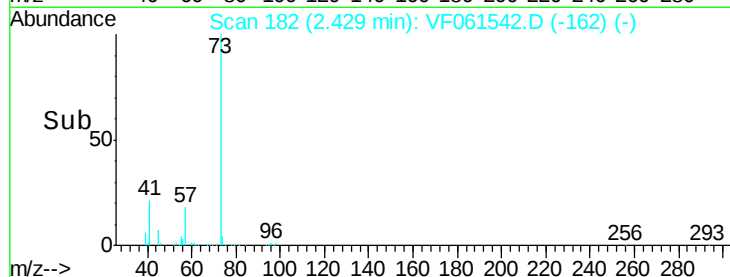
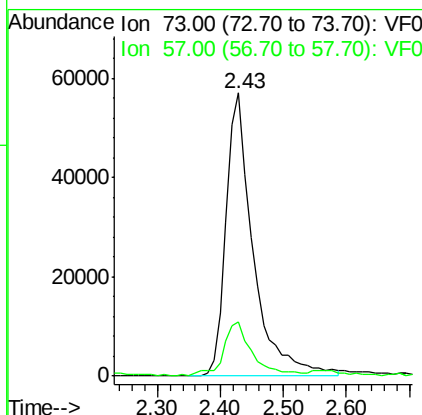
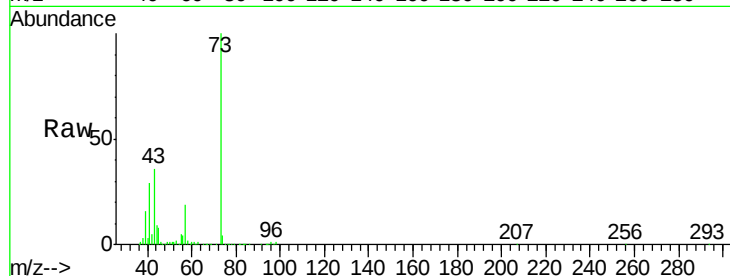




#19
Methvl tert-butvl Ether
Concen: 45.343 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

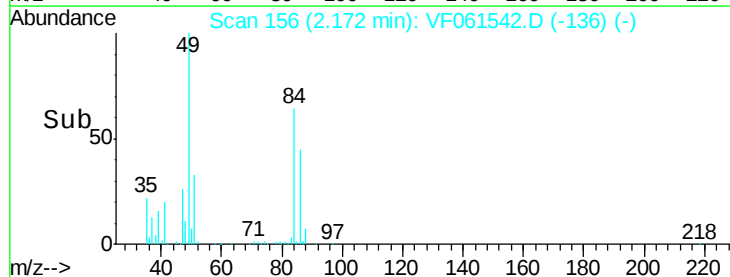
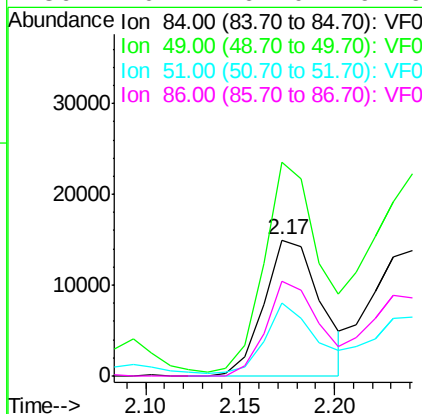
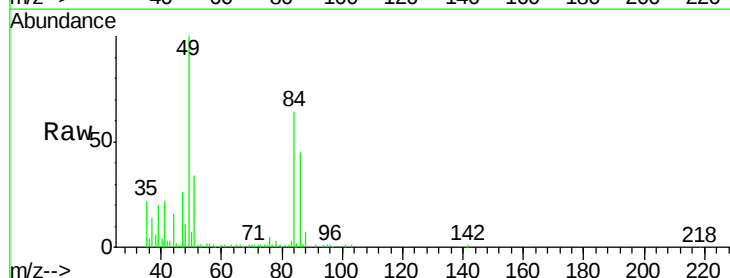
Instrument :
MSVOA_F
ClientSampleId :

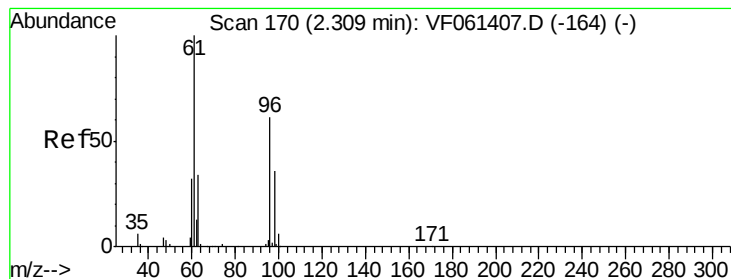
Tot Ion: 73 Resp: 171052
Ion Ratio Lower Upper
73 100
57 19.1 14.8 22.2



#20
Methylene Chloride
Concen: 18.566 ug/l
RT: 2.17 min Scan# 156
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion: 84 Resp: 31292
Ion Ratio Lower Upper
84 100
49 157.1 120.0 180.0
51 53.8 38.6 58.0
86 70.2 61.0 91.6





#21

trans-1,2-Dichloroethene

Concen: 44.608 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

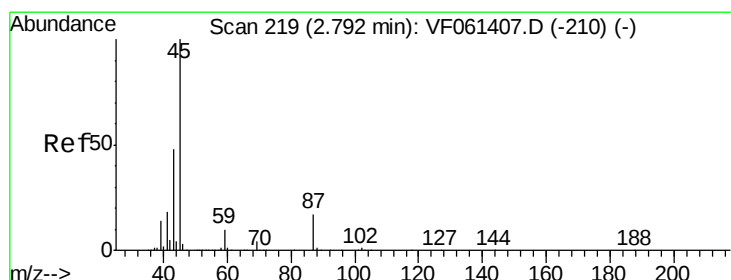
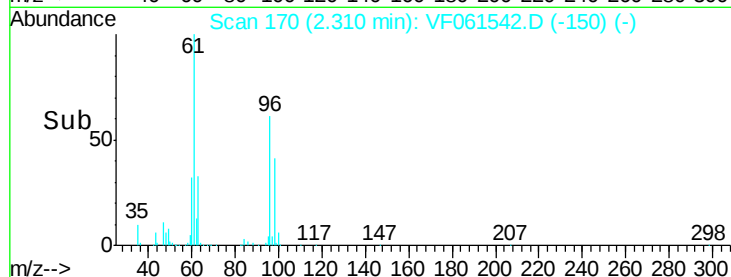
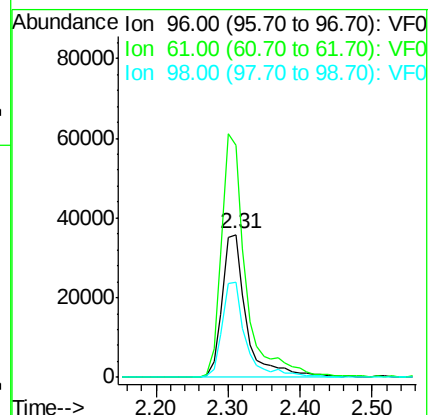
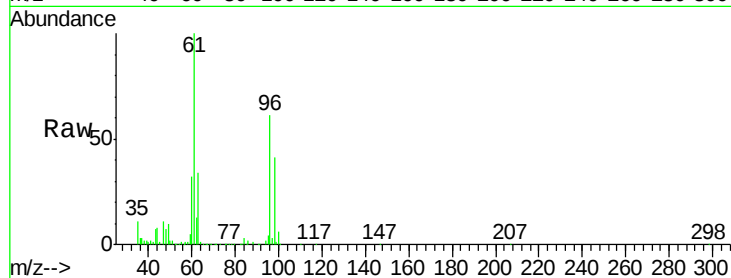
Tot Ion: 96 Resp: 82592

Ion Ratio Lower Upper

96 100

61 163.2 131.8 197.8

98 66.4 47.4 71.0



#22

Diisopropyl ether

Concen: 46.796 ug/l

RT: 2.79 min Scan# 219

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Tgt Ion: 45 Resp: 280239

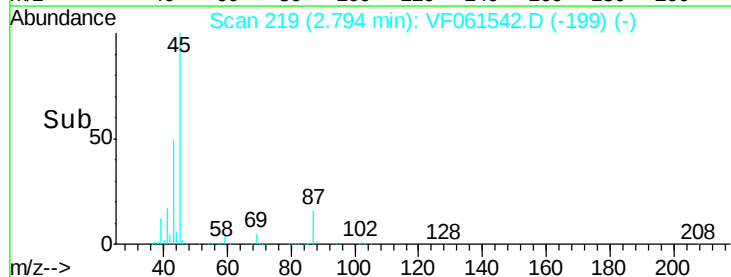
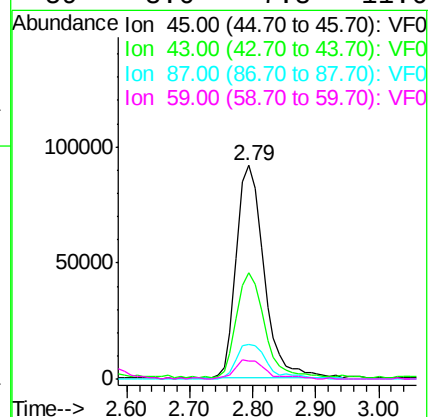
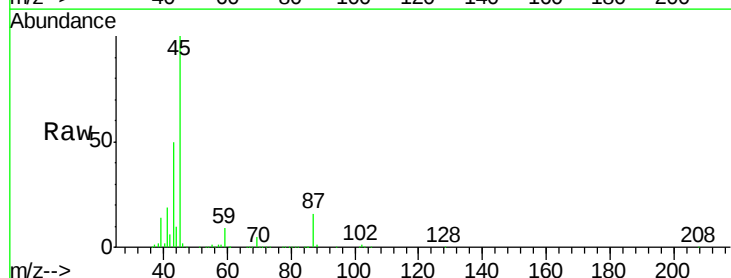
Ion Ratio Lower Upper

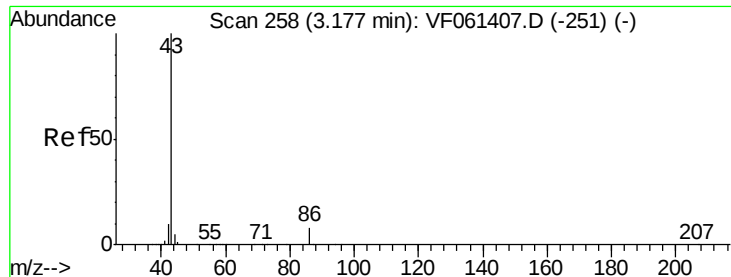
45 100

43 50.0 39.0 58.6

87 16.4 13.9 20.9

59 8.6 7.8 11.6





#23

Vinyl Acetate

Concen: 255.833 ug/l

RT: 3.18 min Scan# 258

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

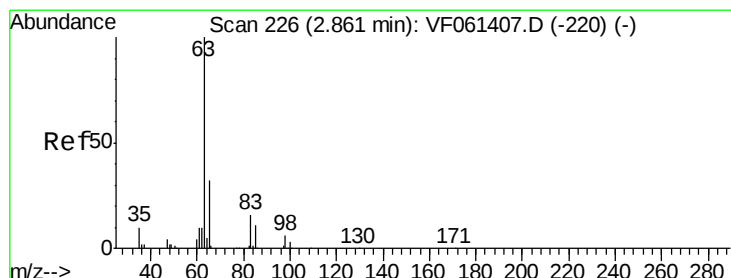
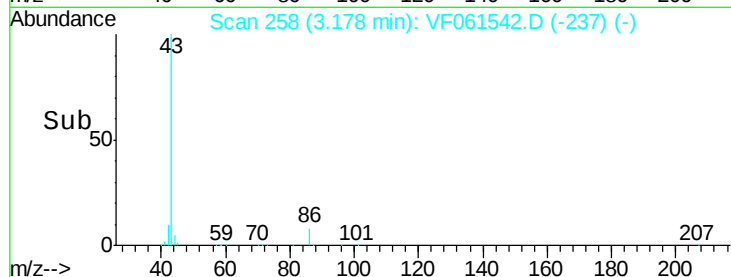
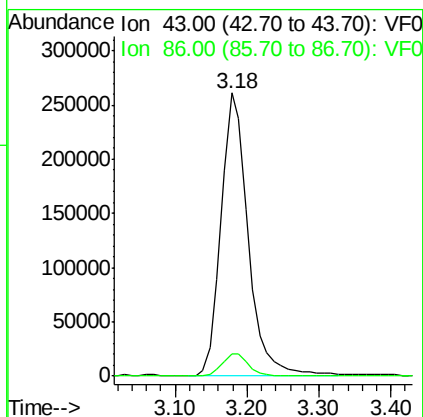
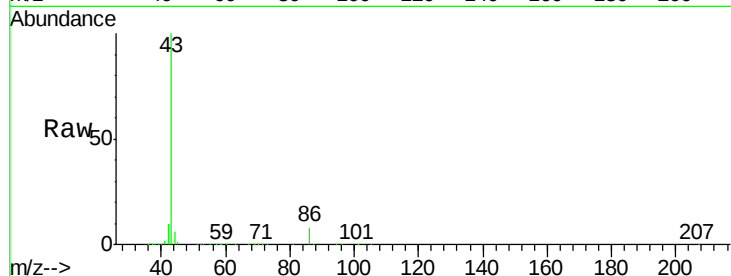
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 674081

Ion Ratio Lower Upper

43 100

86 7.9 6.2 9.4



#24

1,1-Dichloroethane

Concen: 46.460 ug/l

RT: 2.86 min Scan# 226

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

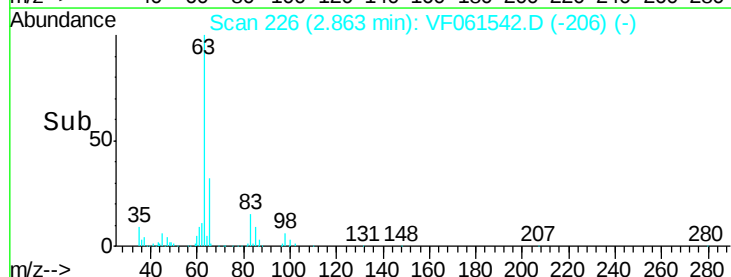
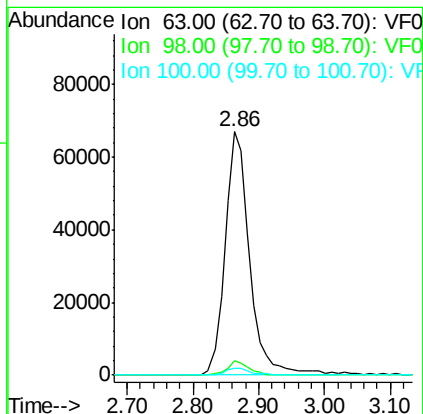
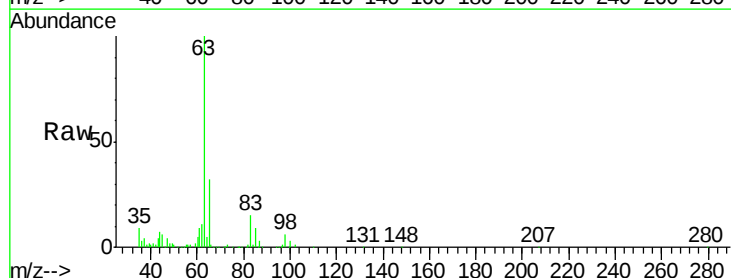
Tgt Ion: 63 Resp: 174623

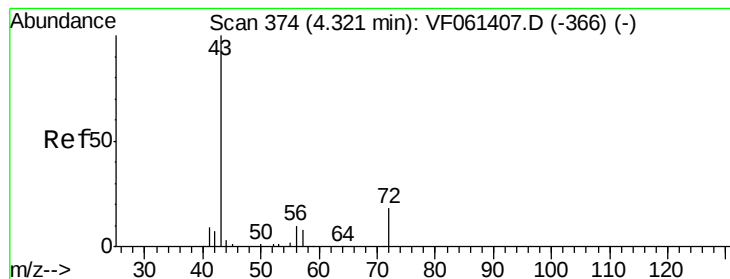
Ion Ratio Lower Upper

63 100

98 5.7 2.9 8.8

100 3.0 1.6 4.8





#25

2-Butanone

Concen: 246.960 ug/l

RT: 4.32 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

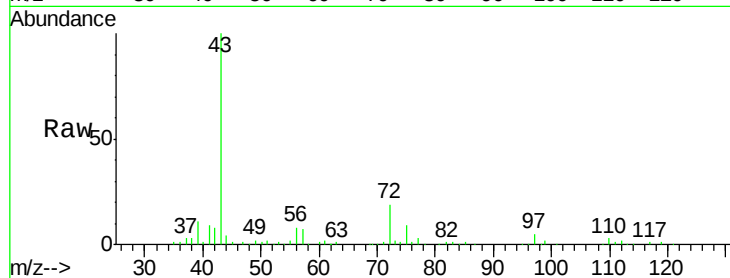
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 192461

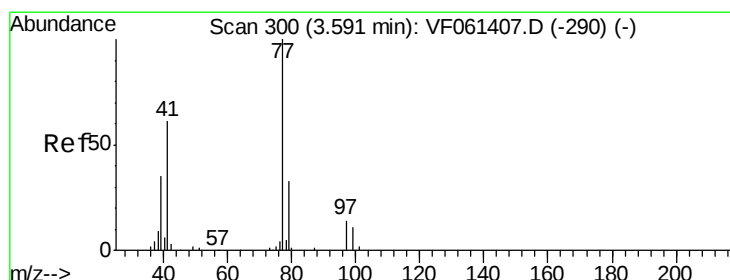
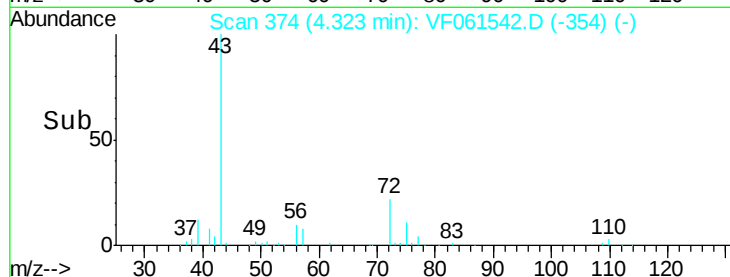
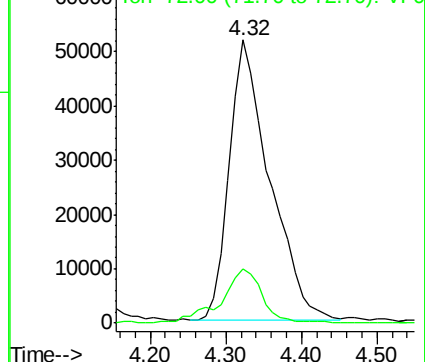
Ion Ratio Lower Upper

43 100

72 19.2 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 44.305 ug/l

RT: 3.59 min Scan# 300

Delta R.T. 0.00 min

Lab File: VF061542.D

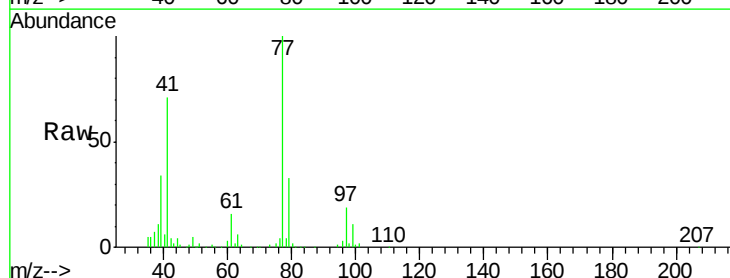
Acq: 7 Feb 2019 13:28

Tgt Ion: 77 Resp: 102311

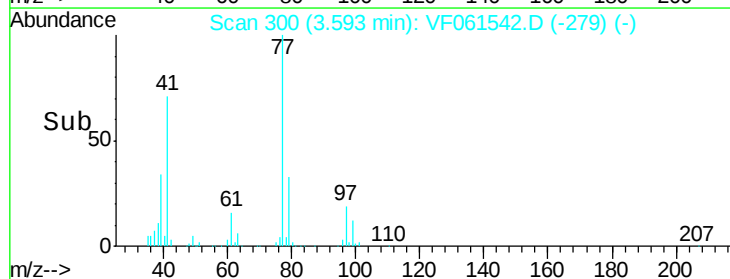
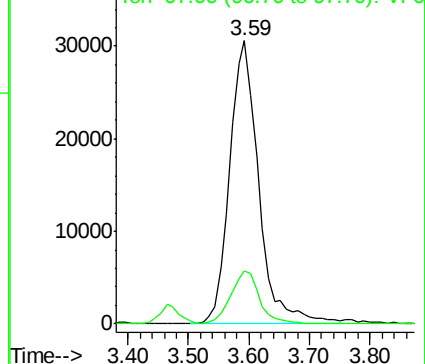
Ion Ratio Lower Upper

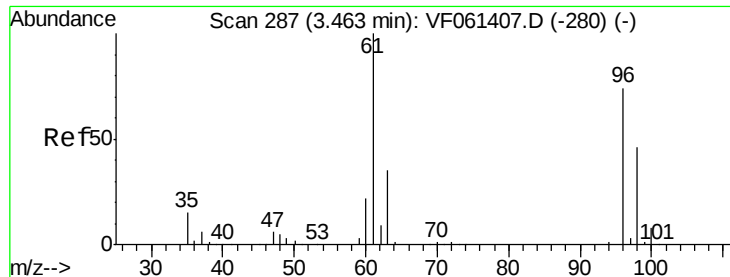
77 100

97 18.8 8.5 25.5



Abundance Ion 77.00 (76.70 to 77.70): VF0
Ion 97.00 (96.70 to 97.70): VF0



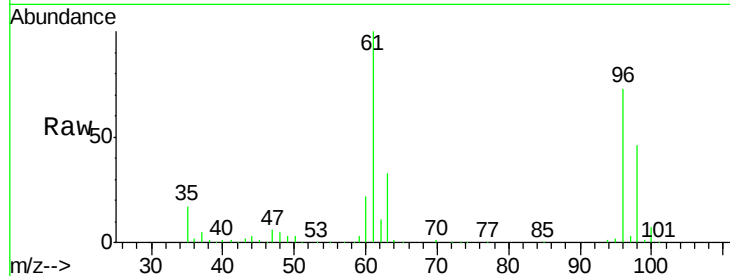


#27

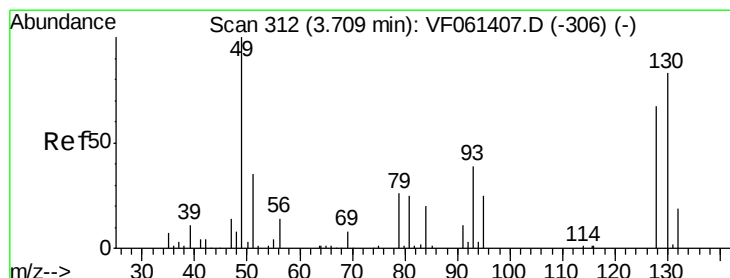
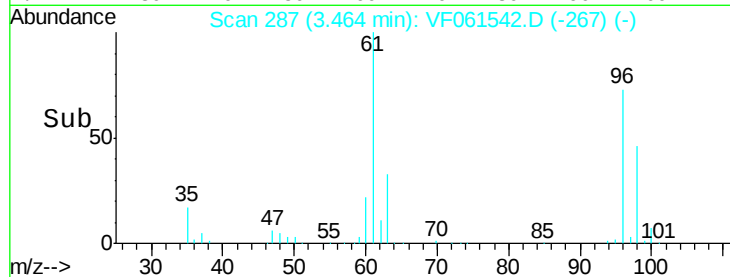
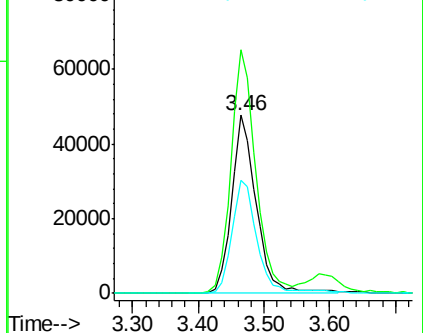
cis-1,2-Dichloroethene
Concen: 45.803 ug/l
RT: 3.46 min Scan# 287
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	96	Resp	125185
Ion	Ratio	Lower	Upper
96	100		
61	137.0	0.0	270.2
98	63.6	0.0	124.0



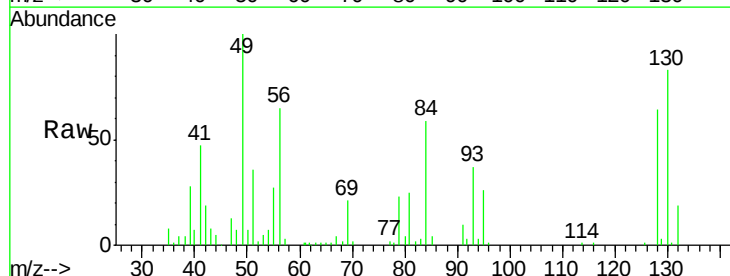
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



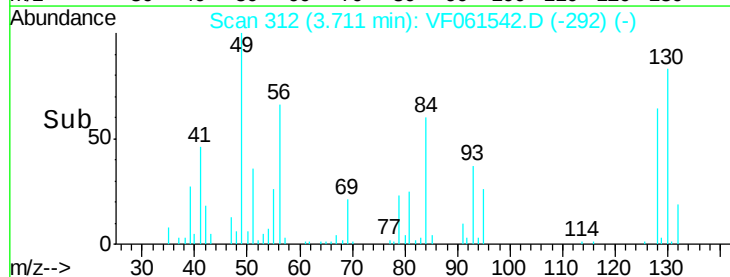
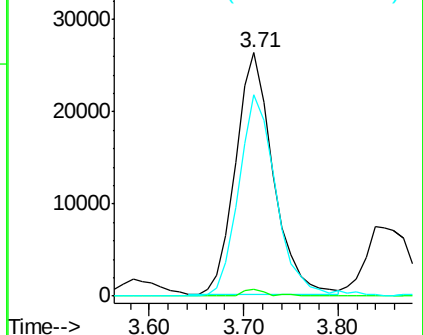
#28

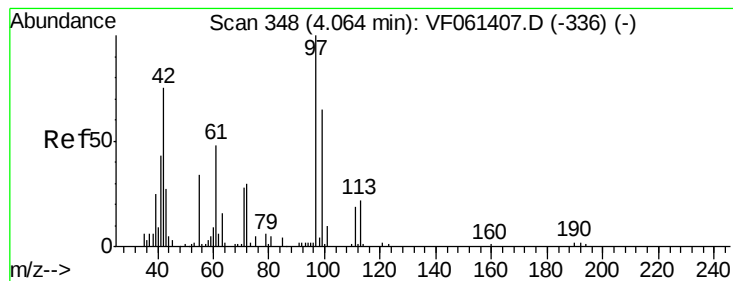
Bromochloromethane
Concen: 42.966 ug/l
RT: 3.71 min Scan# 312
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion	49	Resp	72592
Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	0.0#
130	82.6	65.4	98.2



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 231.058 ug/l

RT: 4.07 min Scan# 348

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

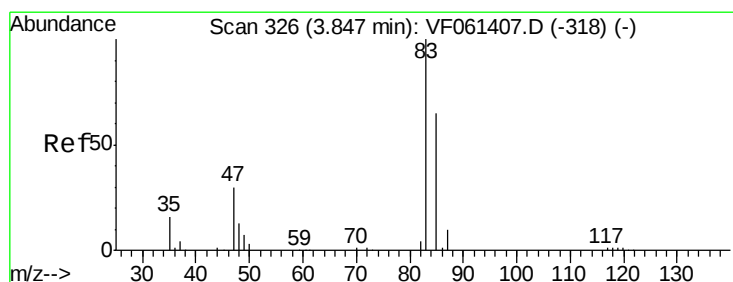
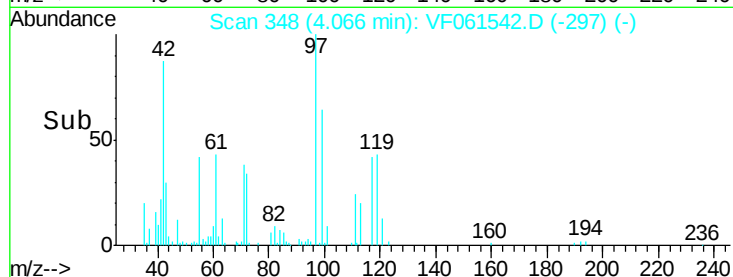
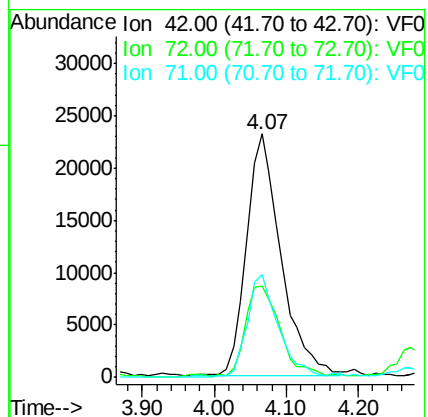
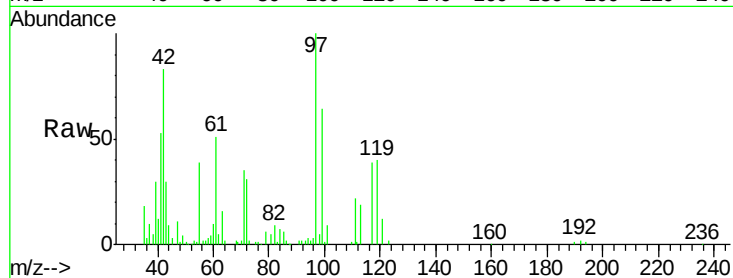
Tot Ion: 42 Resp: 77536

Ion Ratio Lower Upper

42 100

72 39.1 28.9 43.3

71 38.4 29.6 44.4



#30

Chloroform

Concen: 47.096 ug/l

RT: 3.85 min Scan# 326

Delta R.T. 0.00 min

Lab File: VF061542.D

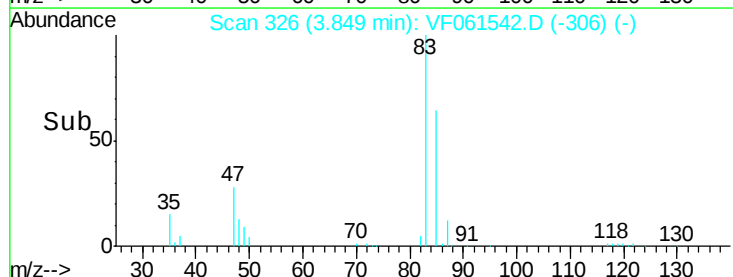
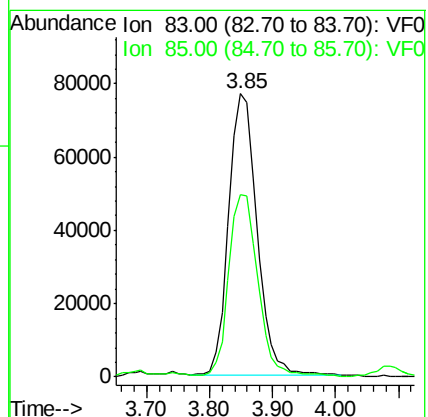
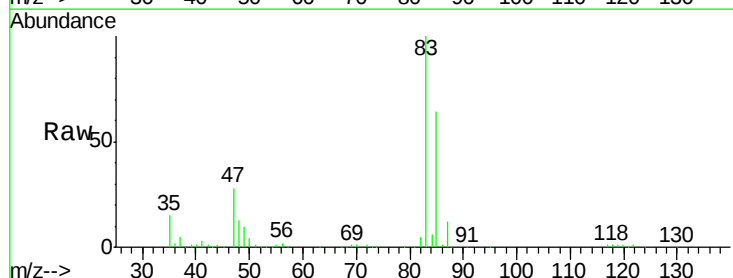
Acq: 7 Feb 2019 13:28

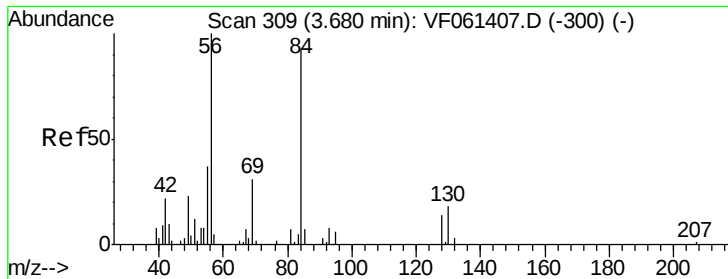
Tgt Ion: 83 Resp: 238895

Ion Ratio Lower Upper

83 100

85 64.2 52.7 79.1





#31

Cyclohexane

Concen: 24.919 ug/l

RT: 3.68 min Scan# 309

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

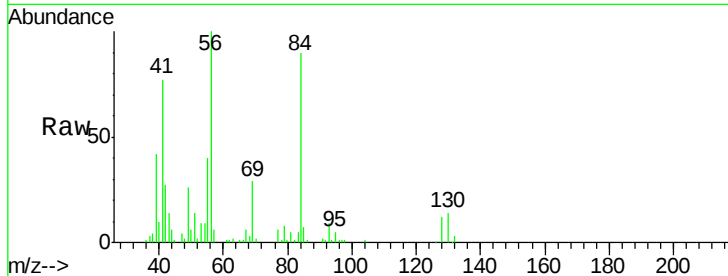
Tot Ion: 56 Resp: 93560

Ion Ratio Lower Upper

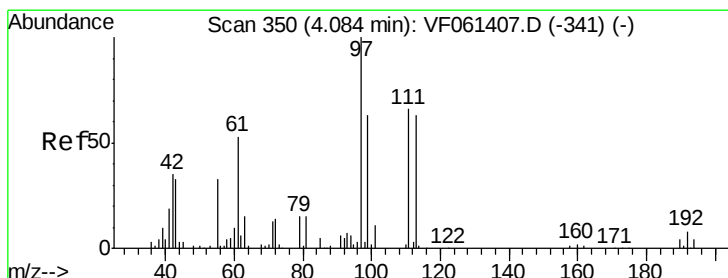
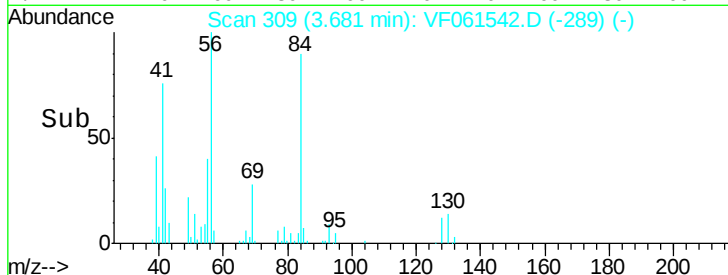
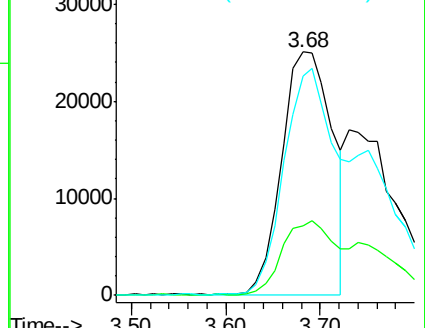
56 100

69 28.7 24.6 36.8

84 90.2 74.2 111.2



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



#32

1,1,1-Trichloroethane

Concen: 48.053 ug/l

RT: 4.09 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

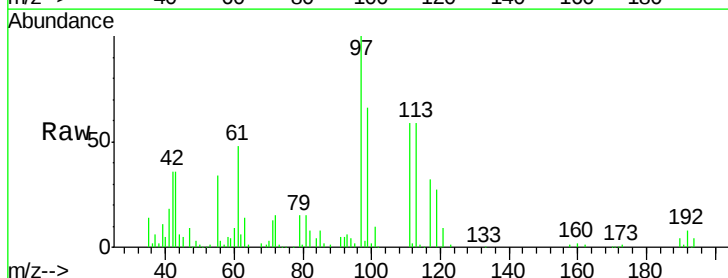
Tgt Ion: 97 Resp: 178723

Ion Ratio Lower Upper

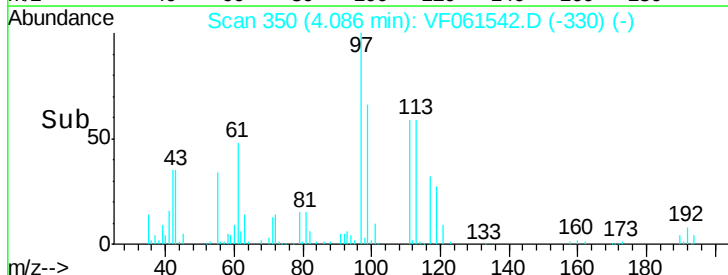
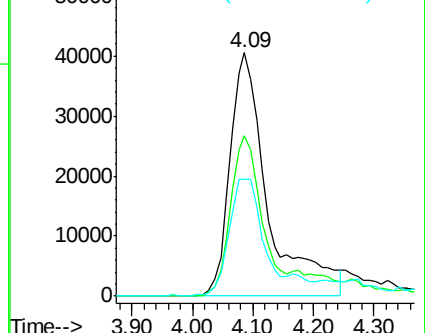
97 100

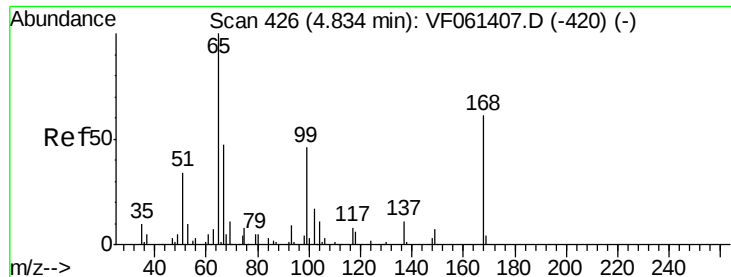
99 65.6 50.1 75.1

61 48.2 43.1 64.7



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 47.309 ug/l

RT: 4.84 min Scan# 426

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

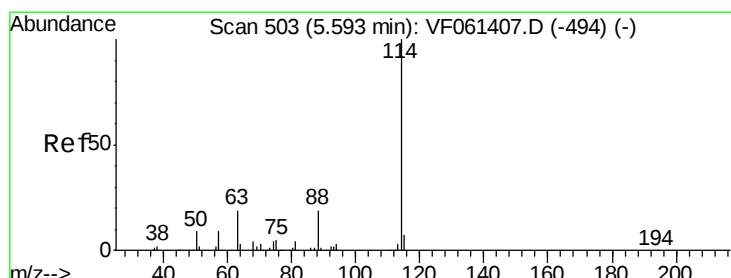
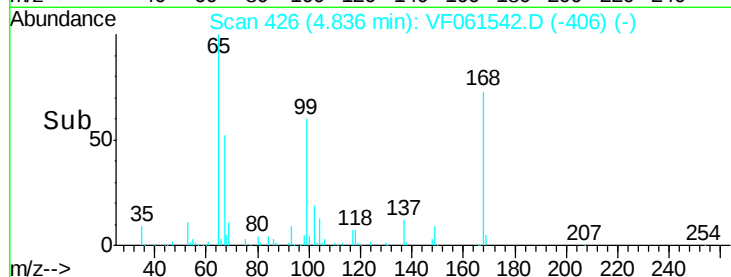
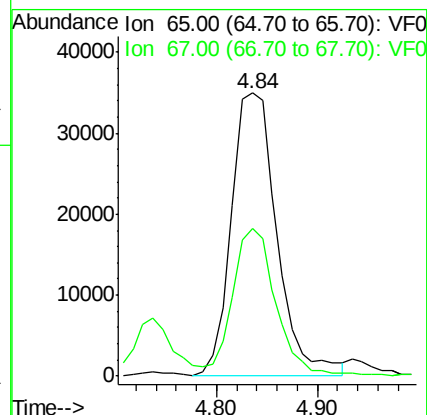
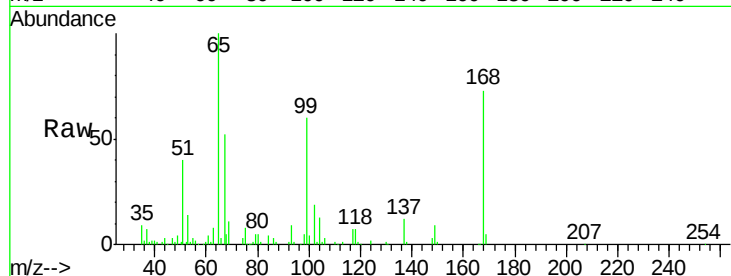
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 110516

Ion Ratio Lower Upper

65 100

67 52.1 0.0 99.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

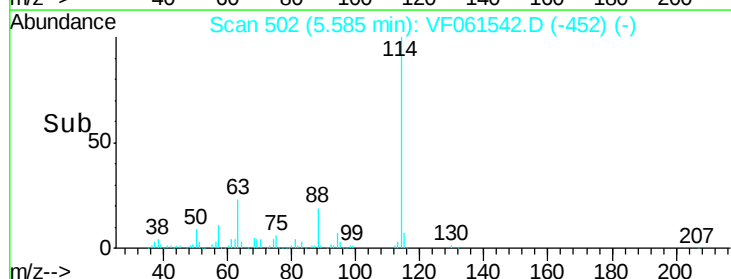
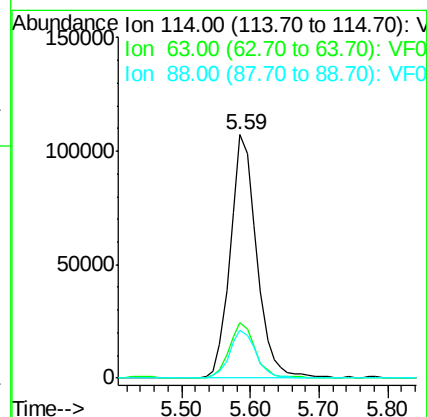
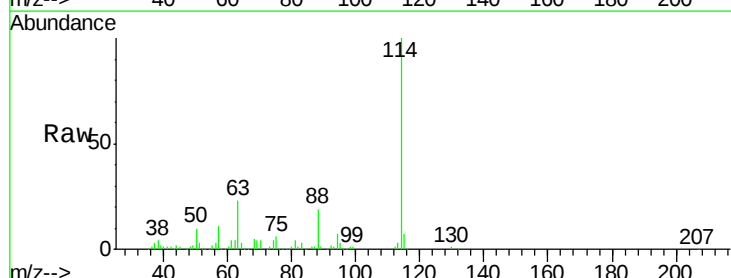
Tgt Ion: 114 Resp: 285019

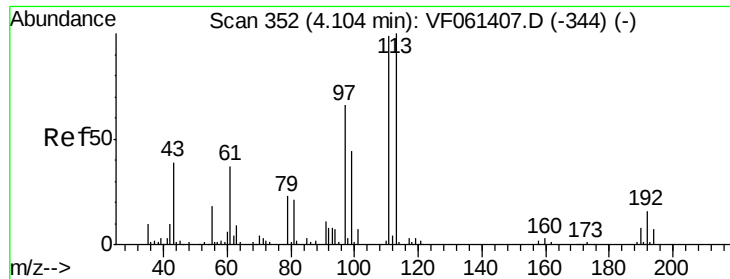
Ion Ratio Lower Upper

114 100

63 22.6 0.0 39.0

88 19.5 0.0 37.4

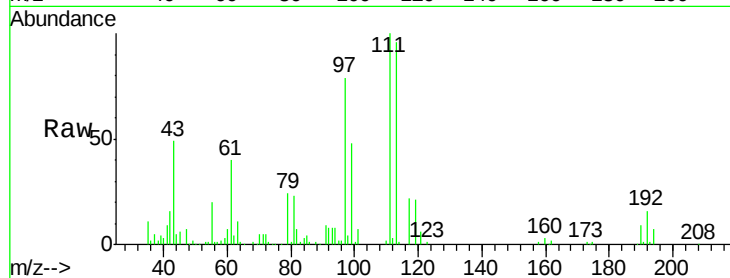




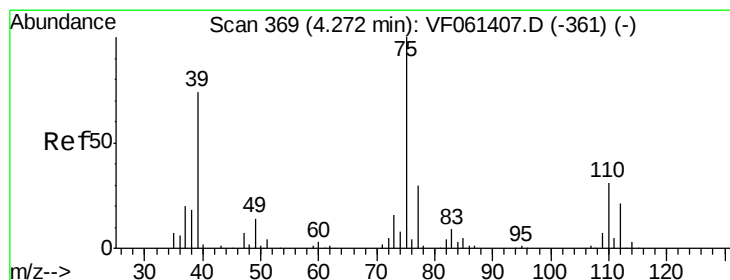
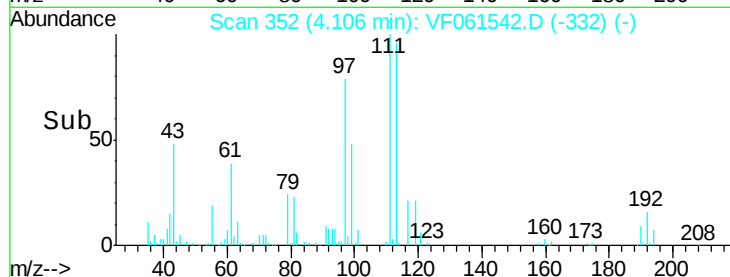
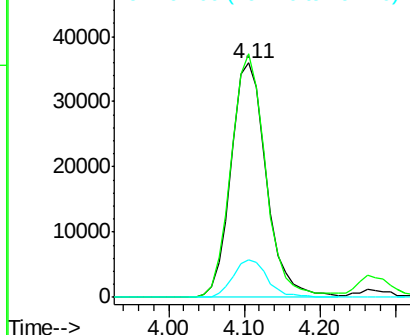
#35
 Dibromofluoromethane
 Concen: 51.718 ug/l
 RT: 4.11 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:113 Resp: 116317
 Ion Ratio Lower Upper
 113 100
 111 103.8 79.4 119.0
 192 16.1 12.4 18.6

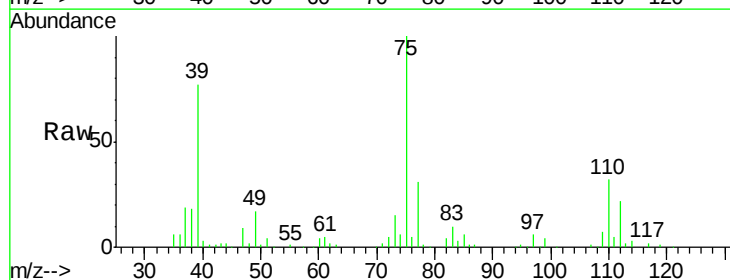


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

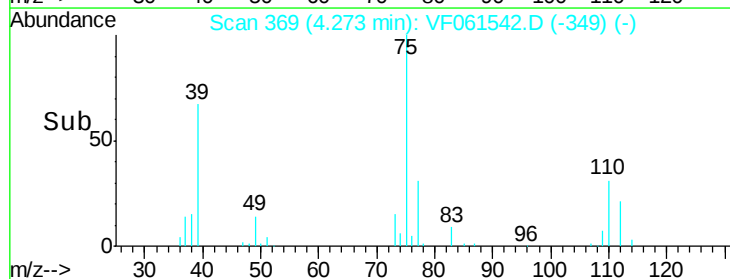
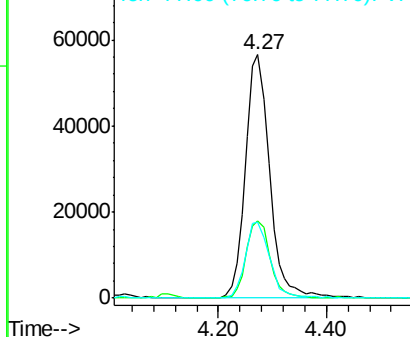


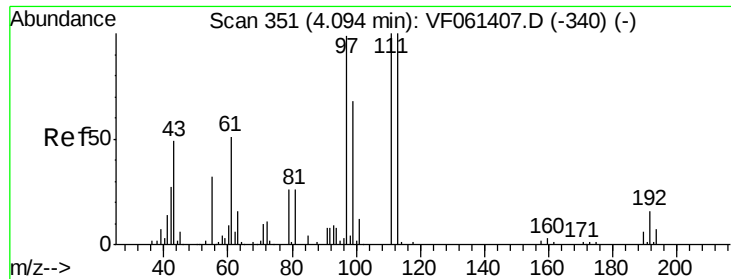
#36
 1,1-Dichloropropene
 Concen: 53.403 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Tgt Ion: 75 Resp: 176478
 Ion Ratio Lower Upper
 75 100
 110 31.7 15.8 47.3
 77 30.9 24.0 36.0



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

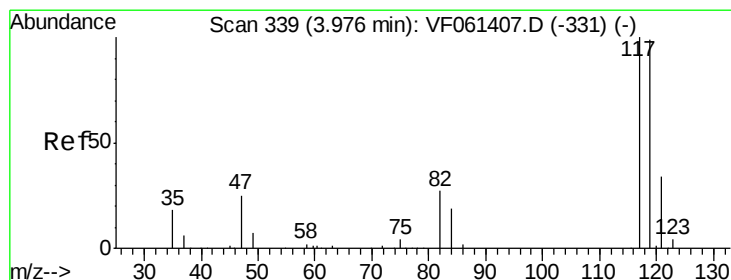
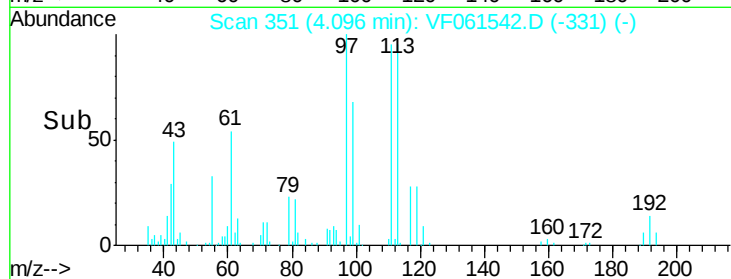
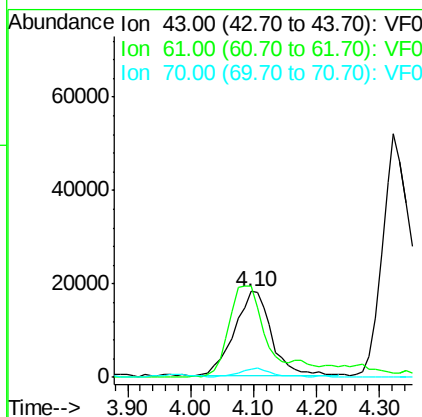
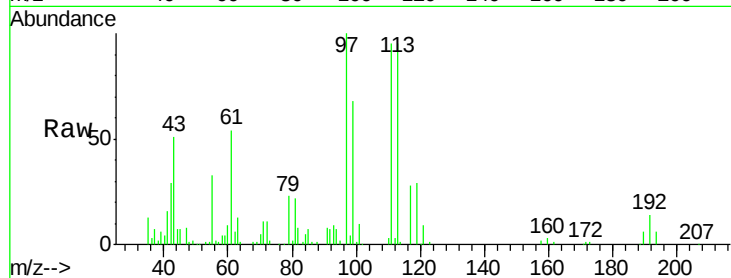




#37
Ethyl Acetate
Concen: 55.809 ug/l
RT: 4.10 min Scan# 351
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

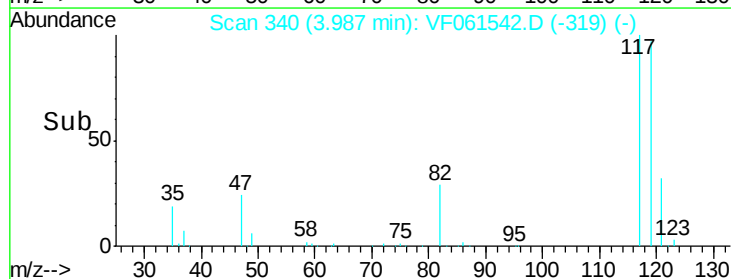
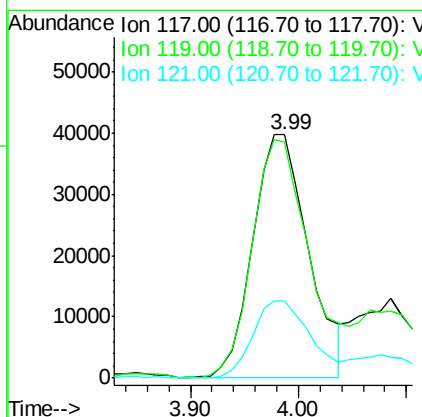
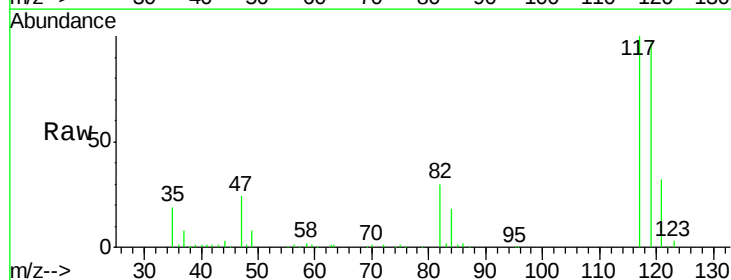
Instrument :
MSVOA_F
ClientSampleId :

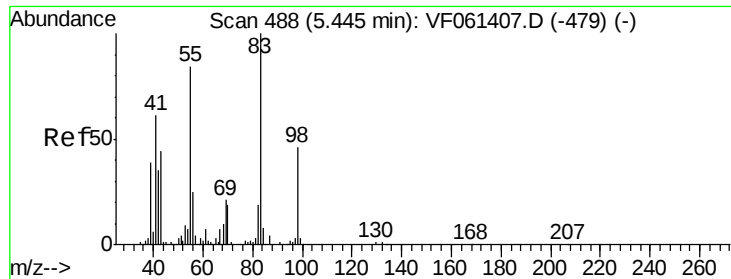
Tot Ion: 43 Resp: 73722
Ion Ratio Lower Upper
43 100
61 106.1 81.7 122.5
70 9.9 6.2 9.2#



#38
Carbon Tetrachloride
Concen: 49.534 ug/l
RT: 3.99 min Scan# 340
Delta R.T. 0.01 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion: 117 Resp: 143107
Ion Ratio Lower Upper
117 100
119 96.7 79.0 118.6
121 31.7 27.0 40.6





#39

Methvlcvclohexane

Concen: 51.493 ug/l

RT: 5.44 min Scan# 487

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

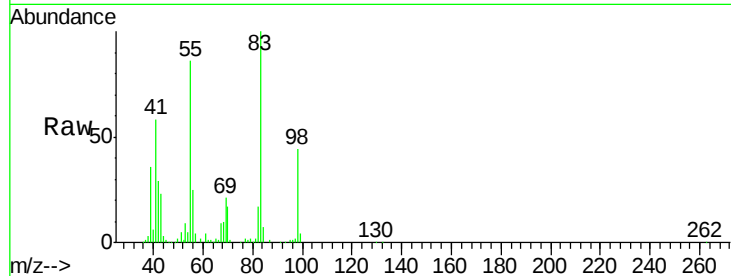
Tot Ion: 83 Resp: 184412

Ion Ratio Lower Upper

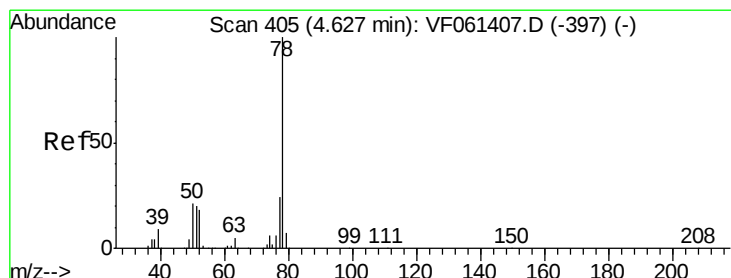
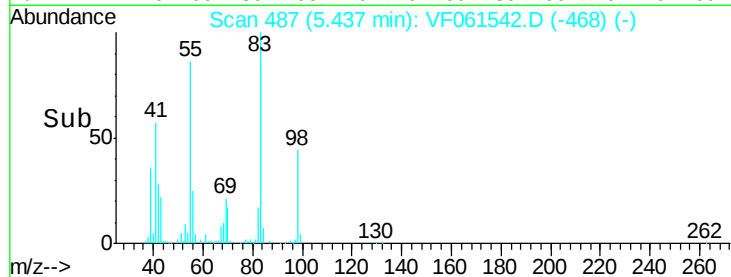
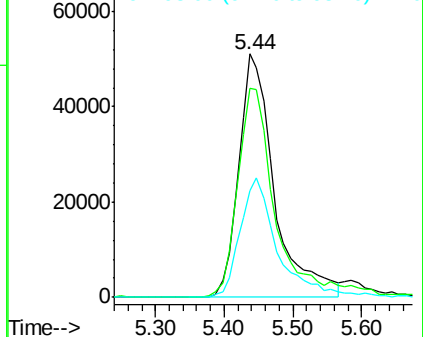
83 100

55 86.1 67.4 101.2

98 43.9 36.7 55.1



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#40

Benzene

Concen: 52.984 ug/l

RT: 4.63 min Scan# 405

Delta R.T. 0.00 min

Lab File: VF061542.D

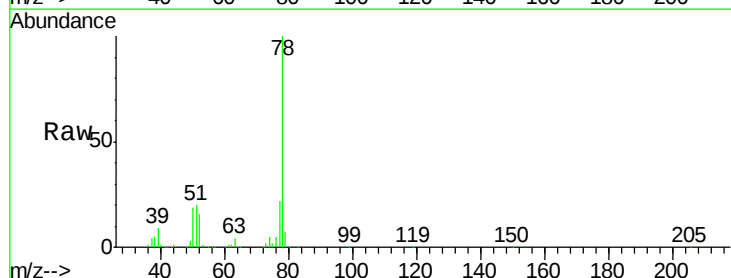
Acq: 7 Feb 2019 13:28

Tgt Ion: 78 Resp: 389614

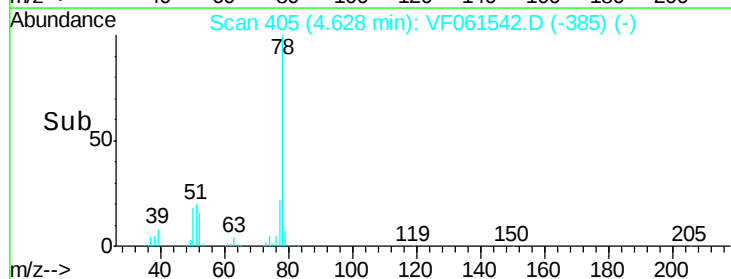
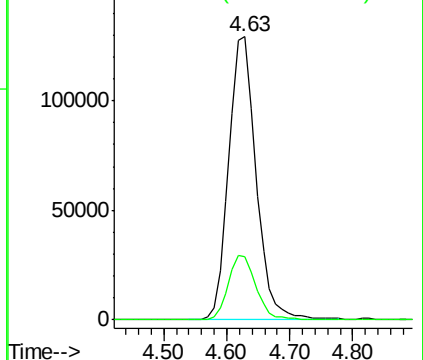
Ion Ratio Lower Upper

78 100

77 22.3 19.0 28.6



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

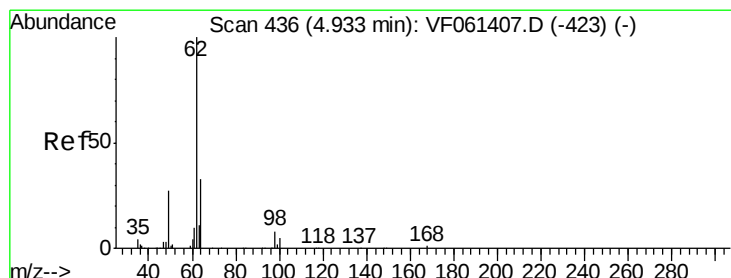
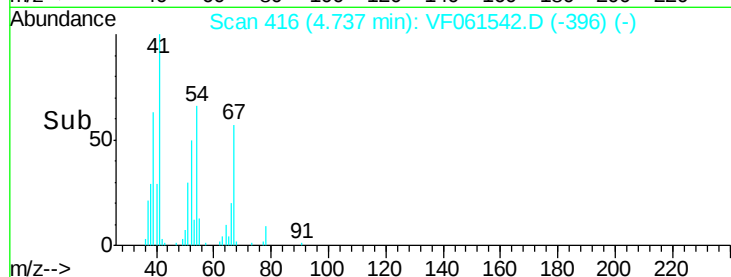
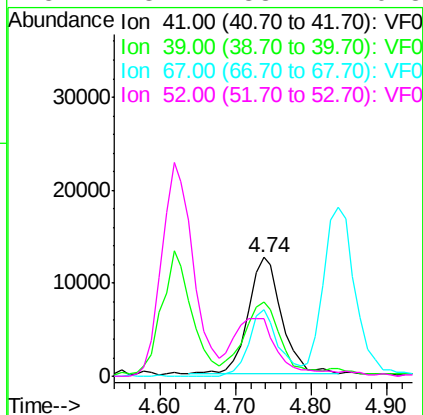
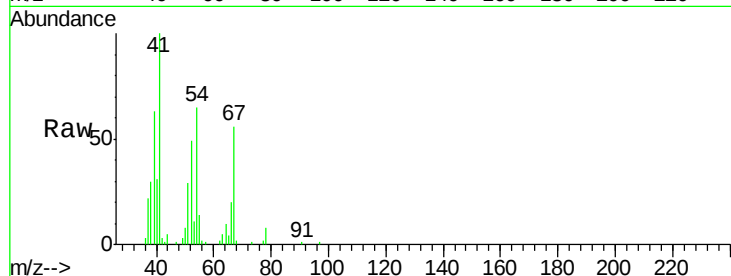




#41
Methacrylonitrile
Concen: 55.415 ug/l
RT: 4.74 min Scan# 416
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

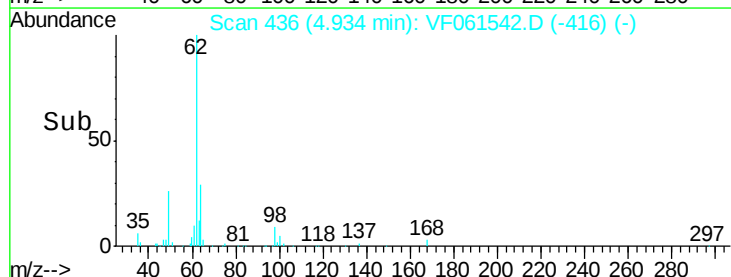
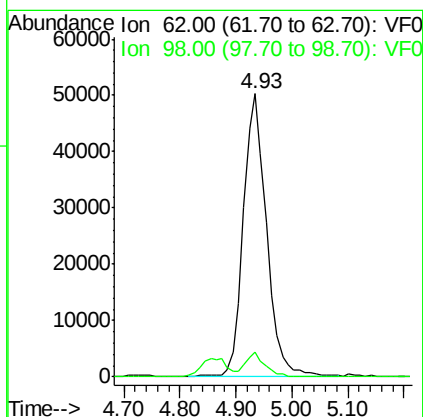
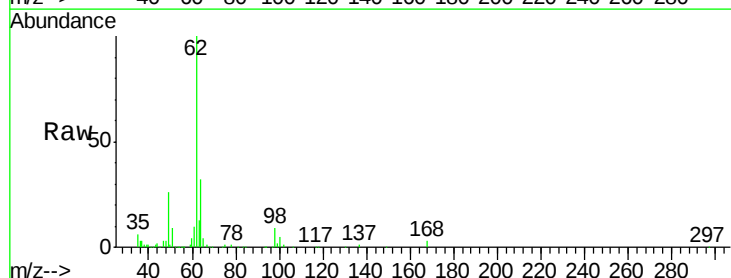
Instrument :
MSVOA_F
ClientSampleId :

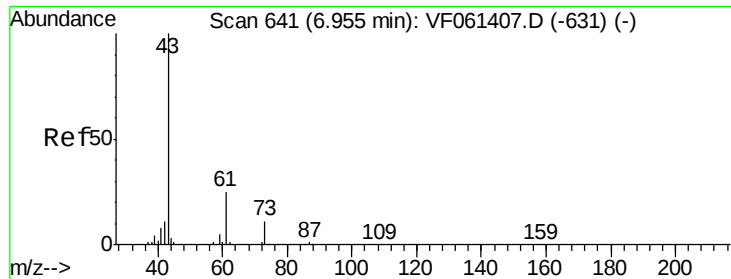
Tot Ion:	41	Resp:	38951
Ion	Ratio	Lower	Upper
41	100		
39	62.8	43.1	64.7
67	56.2	38.8	58.2
52	48.7	33.2	49.8



#42
1,2-Dichloroethane
Concen: 55.388 ug/l
RT: 4.93 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion:	62	Resp:	145136
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.0



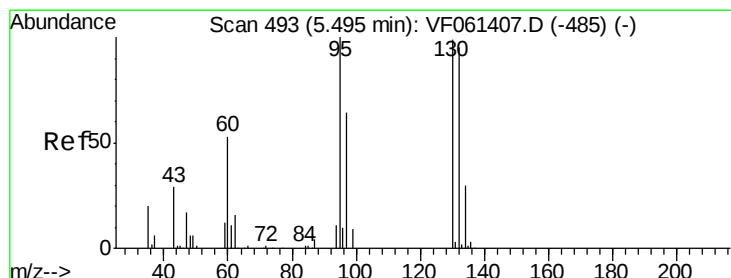
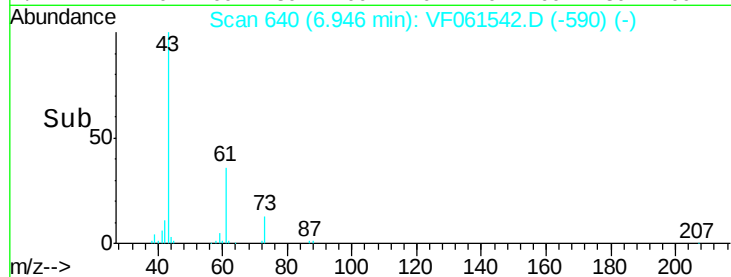
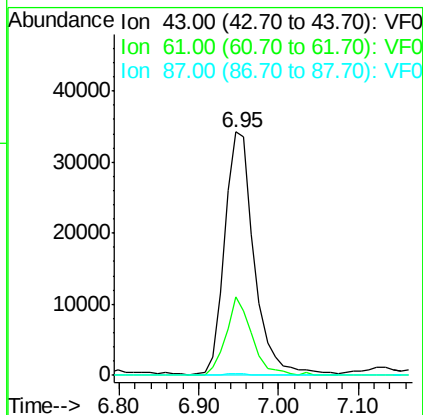
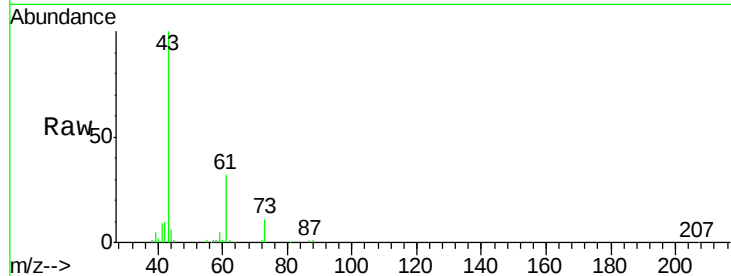


#43

Isopropyl Acetate
 Concen: 54.018 ug/l
 RT: 6.95 min Scan# 640
 Delta R.T. -0.01 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Instrument :
 MSVOA_F
 ClientSampleId :

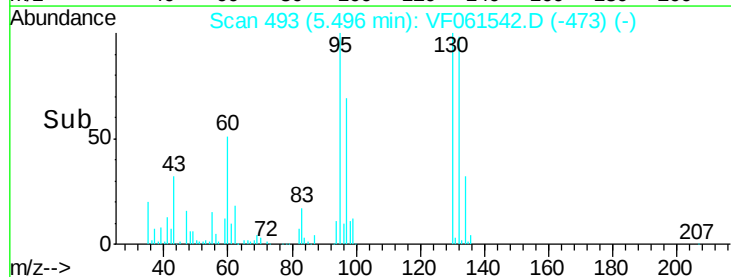
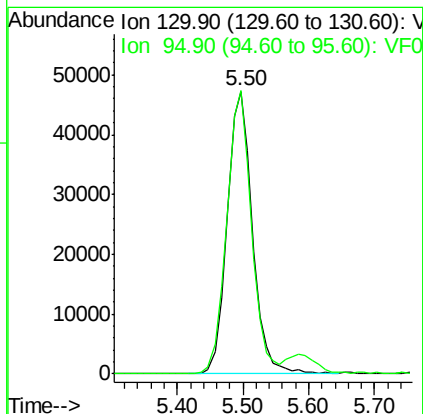
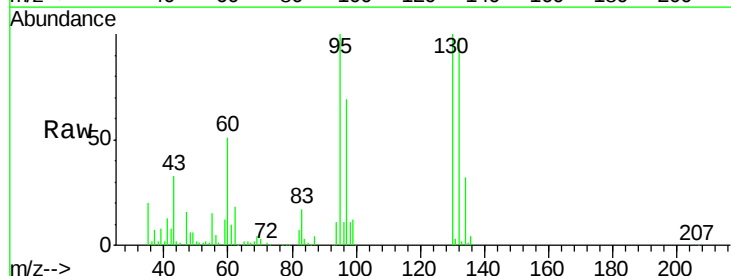
Tot Ion: 43 Resp: 89558
 Ion Ratio Lower Upper
 43 100
 61 32.4 20.3 30.5#
 87 0.9 0.5 0.7#

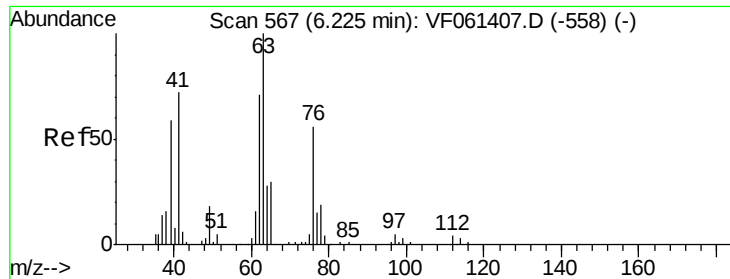


#44

Trichloroethene
 Concen: 56.293 ug/l
 RT: 5.50 min Scan# 493
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Tgt Ion:130 Resp: 126984
 Ion Ratio Lower Upper
 130 100
 95 100.3 0.0 202.8





#45

1,2-Dichloropropane

Concen: 52.036 ug/l

RT: 6.23 min Scan# 567

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

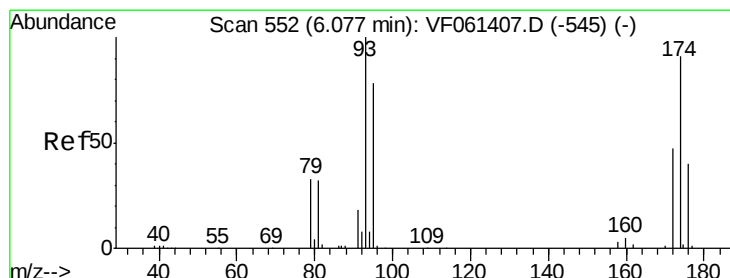
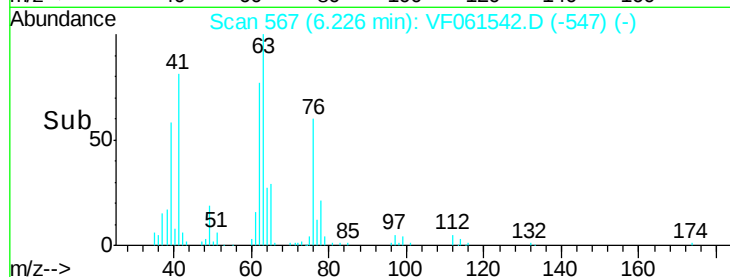
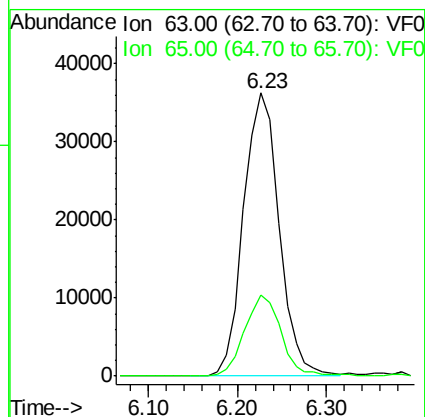
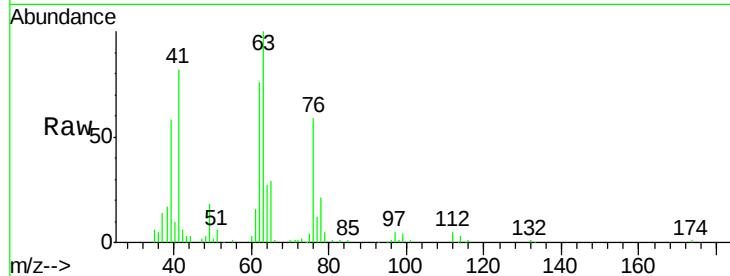
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 63 Resp: 100427

Ion Ratio Lower Upper

63 100

65 28.7 24.4 36.6



#46

Dibromomethane

Concen: 56.930 ug/l

RT: 6.08 min Scan# 552

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

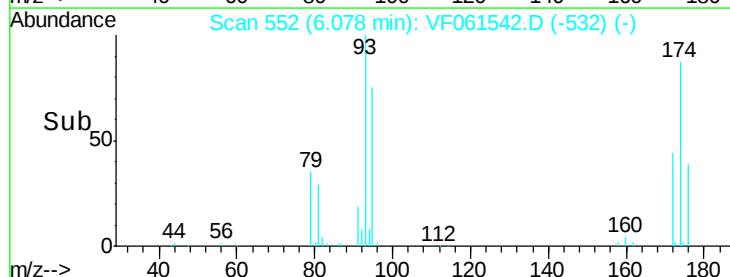
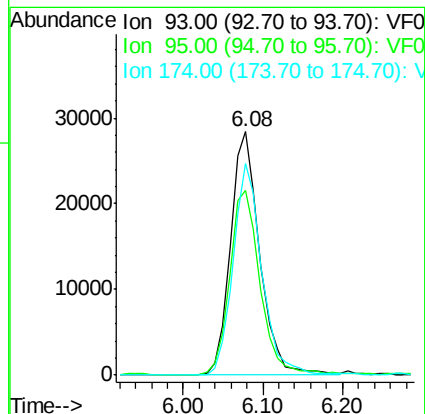
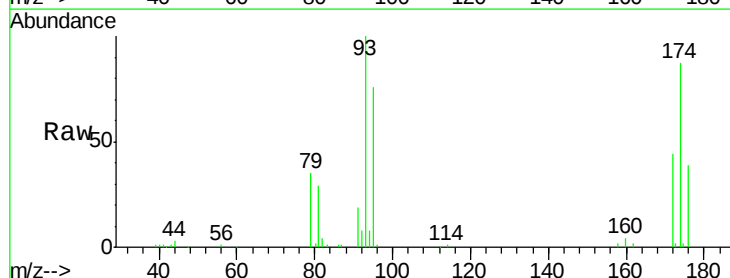
Tgt Ion: 93 Resp: 73057

Ion Ratio Lower Upper

93 100

95 75.8 62.1 93.1

174 89.2 74.6 111.8





#47

Bromodichloromethane

Concen: 58.485 ug/l

RT: 6.37 min Scan# 582

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

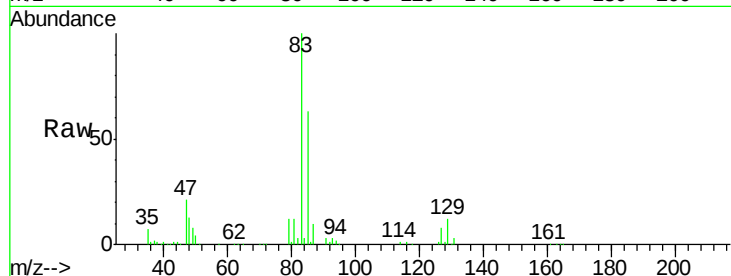
Tot Ion: 83 Resp: 185694

Ion Ratio Lower Upper

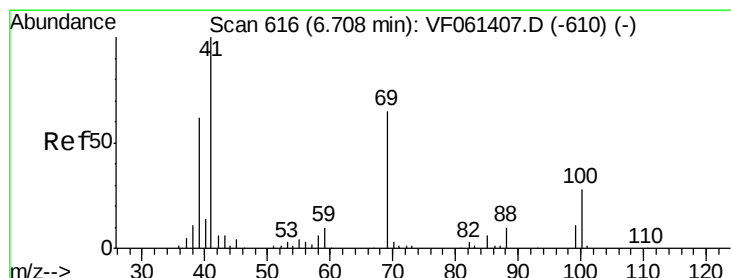
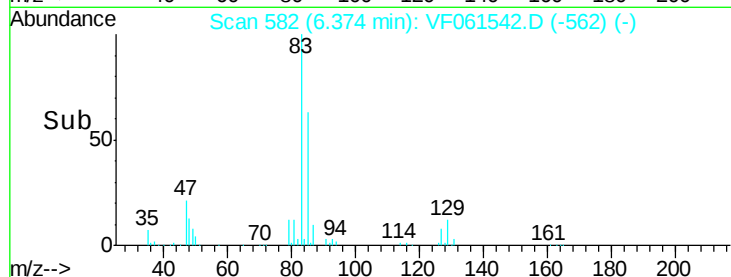
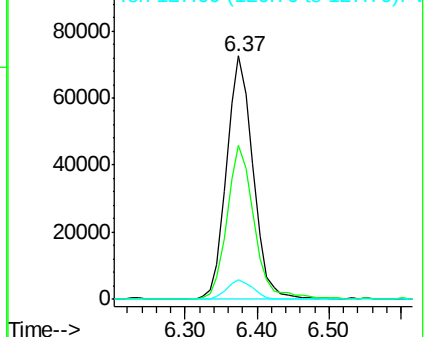
83 100

85 63.0 53.0 79.4

127 8.2 6.9 10.3



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: 56.213 ug/l

RT: 6.71 min Scan# 616

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

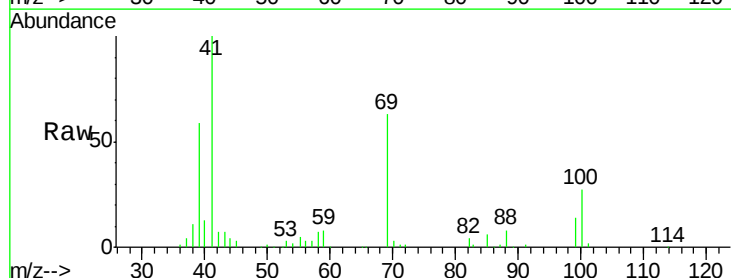
Tgt Ion: 41 Resp: 62582

Ion Ratio Lower Upper

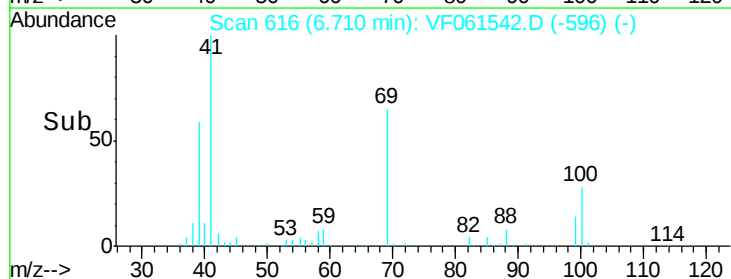
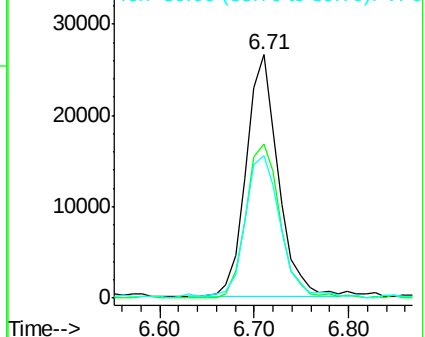
41 100

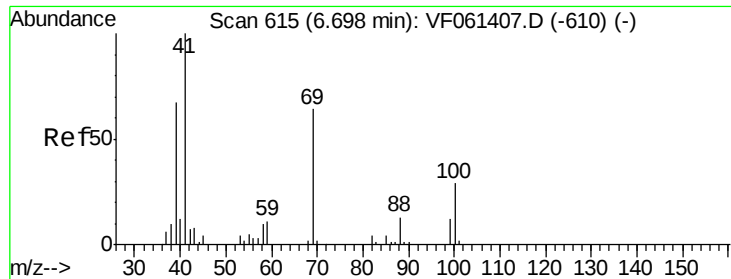
69 63.4 51.7 77.5

39 58.5 49.2 73.8



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: 1146.260 ug/l

RT: 6.70 min Scan# 615

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :
MSVOA_F
ClientSampleId :

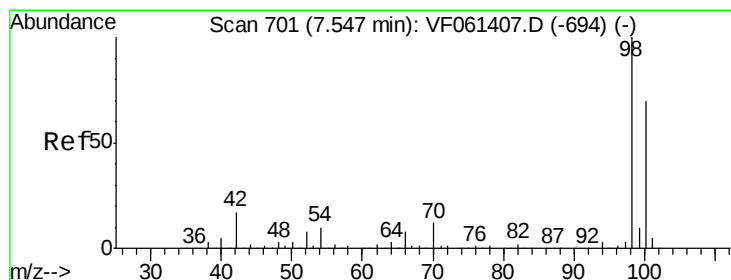
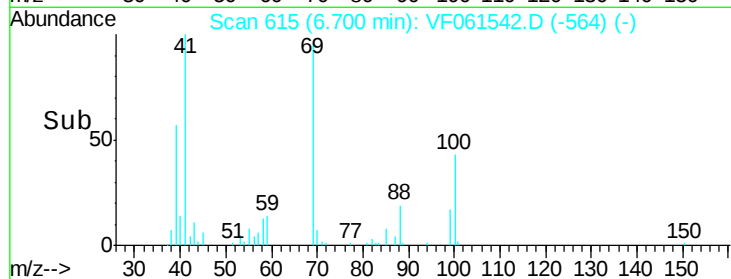
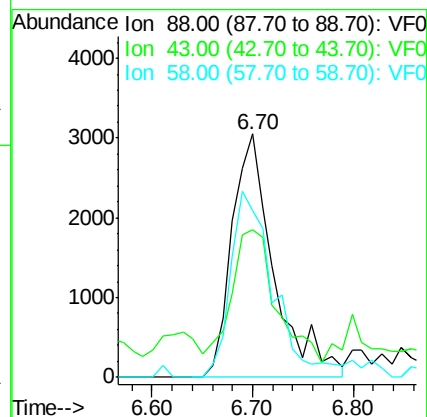
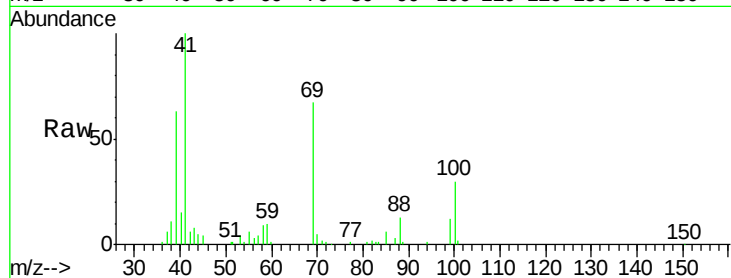
Tot Ion: 88 Resp: 8829

Ion Ratio Lower Upper

88 100

43 60.6 55.5 83.3

58 68.7 59.9 89.9



#50

Toluene-d8

Concen: 52.602 ug/l

RT: 7.55 min Scan# 701

Delta R.T. 0.00 min

Lab File: VF061542.D

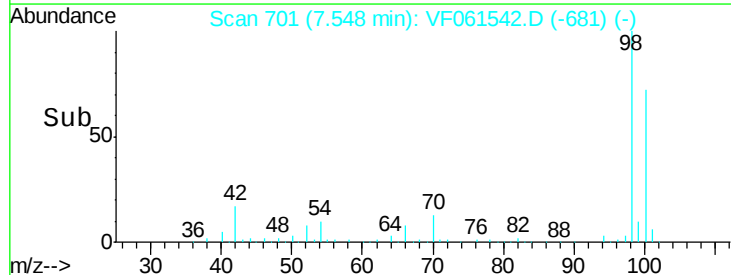
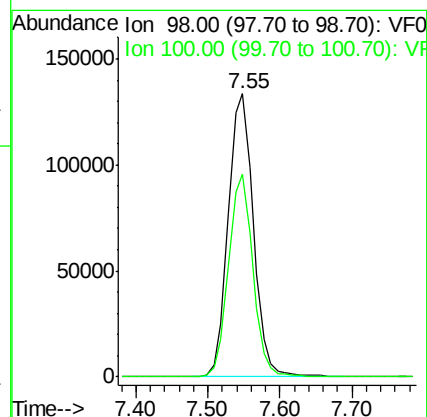
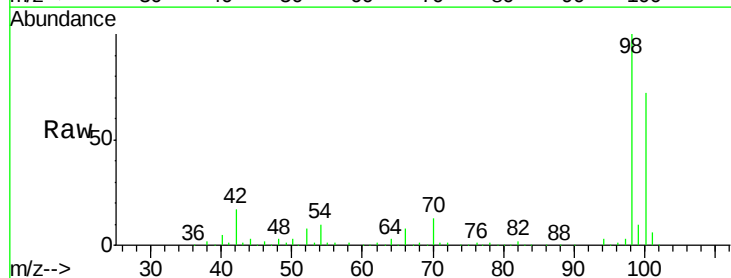
Acq: 7 Feb 2019 13:28

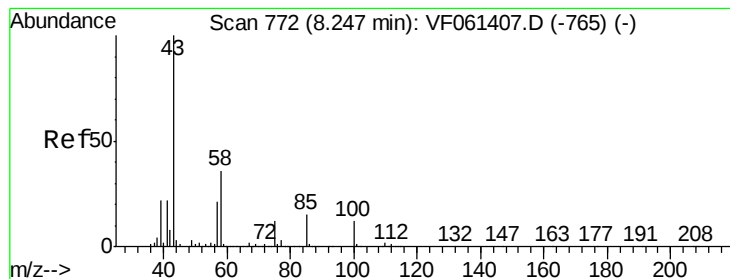
Tgt Ion: 98 Resp: 324135

Ion Ratio Lower Upper

98 100

100 71.5 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 275.570 ug/l

RT: 8.25 min Scan# 772

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

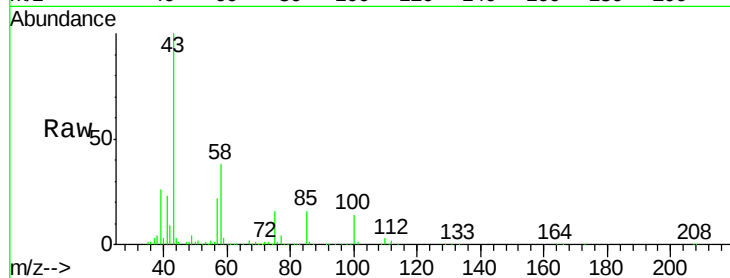
ClientSampled :

Tot Ion: 43 Resp: 335874

Ion Ratio Lower Upper

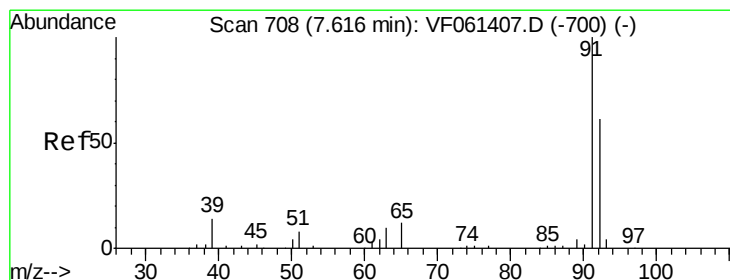
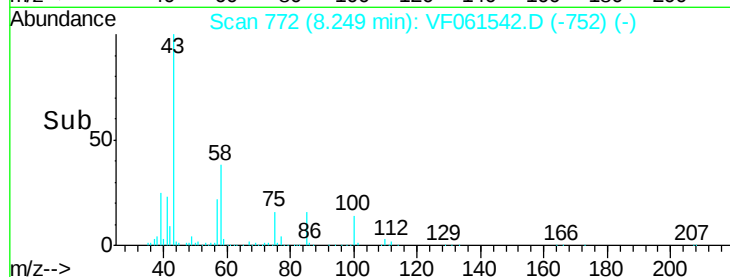
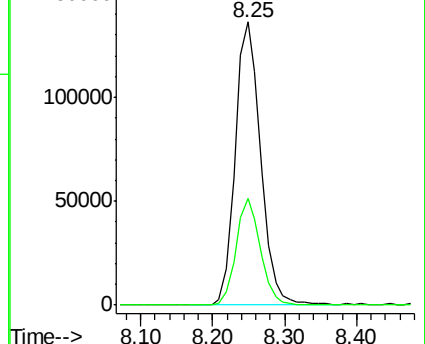
43 100

58 37.5 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 51.581 ug/l

RT: 7.62 min Scan# 708

Delta R.T. 0.00 min

Lab File: VF061542.D

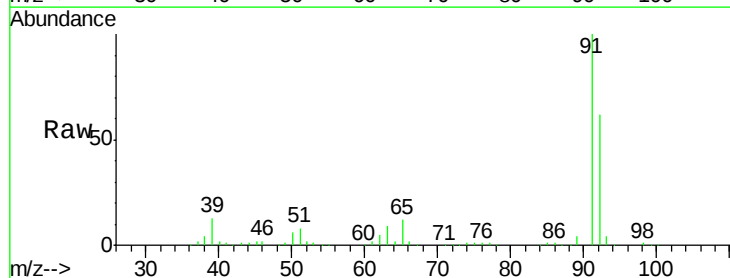
Acq: 7 Feb 2019 13:28

Tgt Ion: 92 Resp: 249780

Ion Ratio Lower Upper

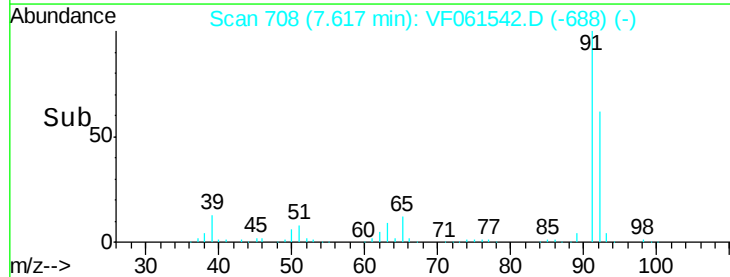
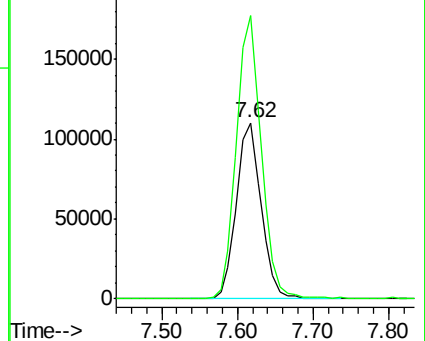
92 100

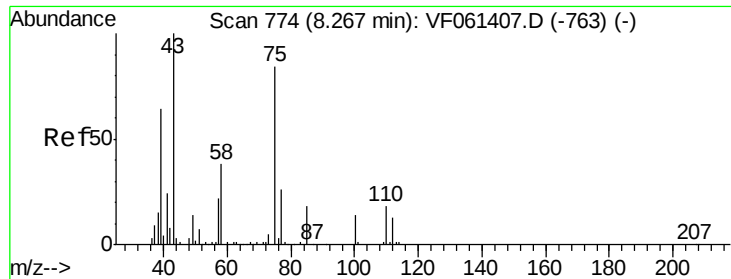
91 160.8 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

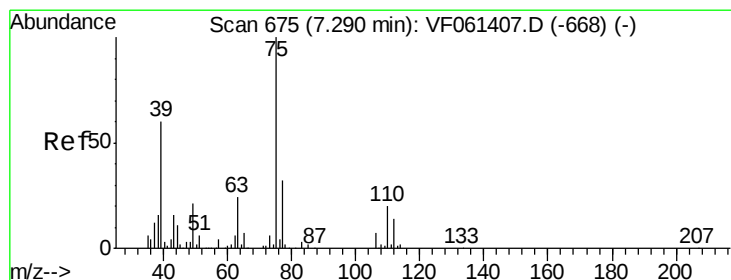
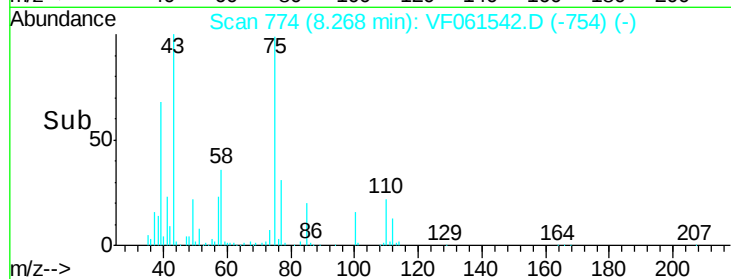
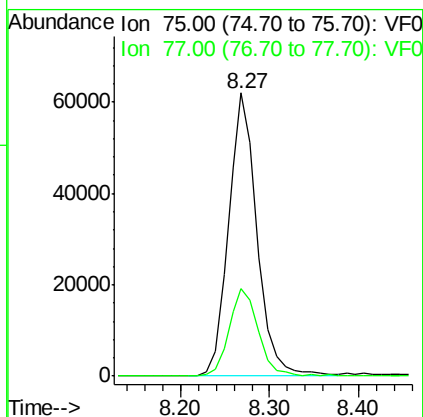
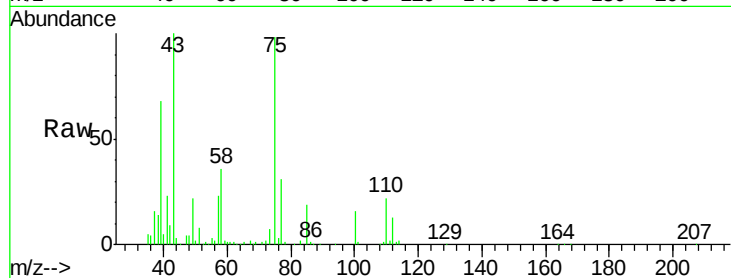




#53
 t-1,3-Dichloropropene
 Concen: 55.020 ug/l
 RT: 8.27 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

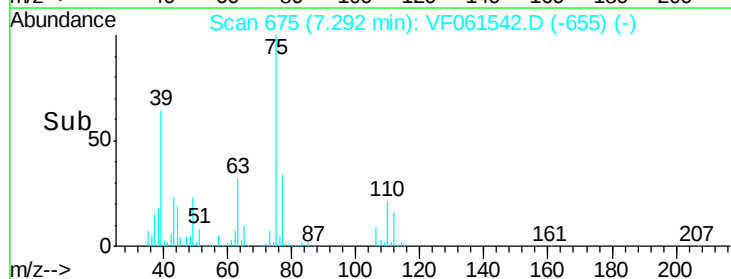
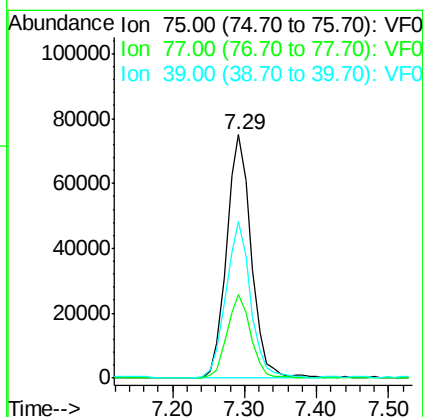
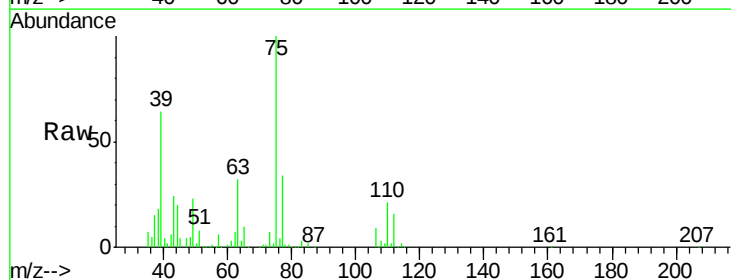
Instrument :
 MSVOA_F
 ClientSampleId :

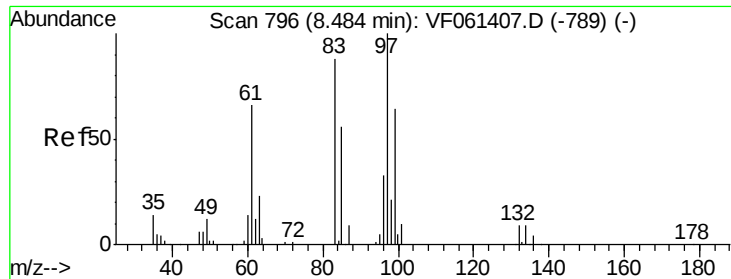
Tot Ion: 75 Resp: 138718
 Ion Ratio Lower Upper
 75 100
 77 31.1 24.4 36.6



#54
 cis-1,3-Dichloropropene
 Concen: 56.878 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Tgt Ion: 75 Resp: 179249
 Ion Ratio Lower Upper
 75 100
 77 34.2 25.4 38.0
 39 64.5 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 58.551 ug/l

RT: 8.49 min Scan# 796

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 80515

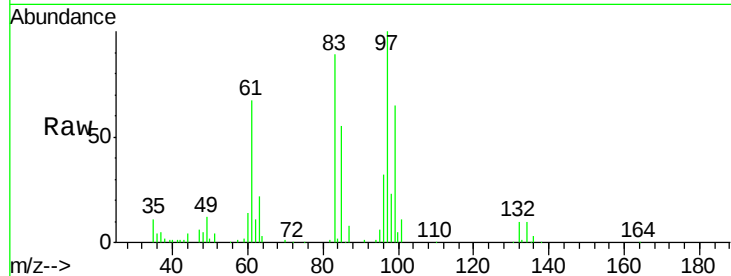
Ion Ratio Lower Upper

97 100

83 88.9 70.4 105.6

85 55.1 44.7 67.1

99 65.4 50.8 76.2

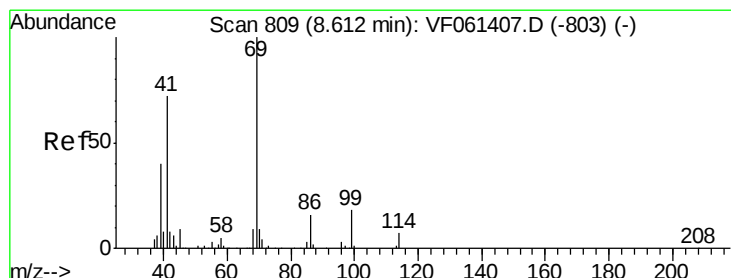
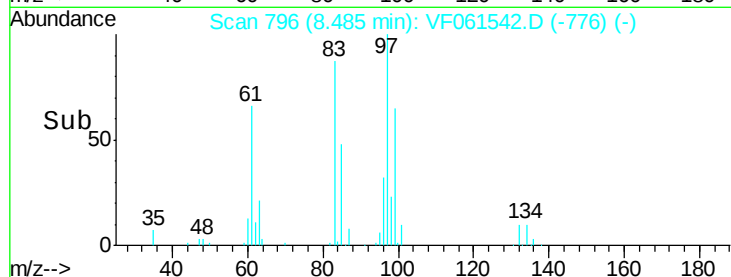
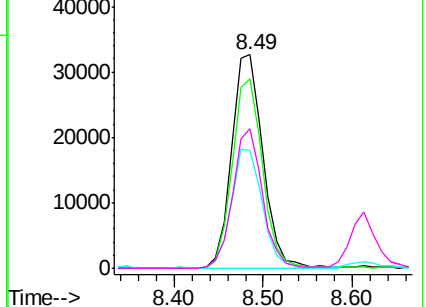


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 55.419 ug/l

RT: 8.61 min Scan# 809

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

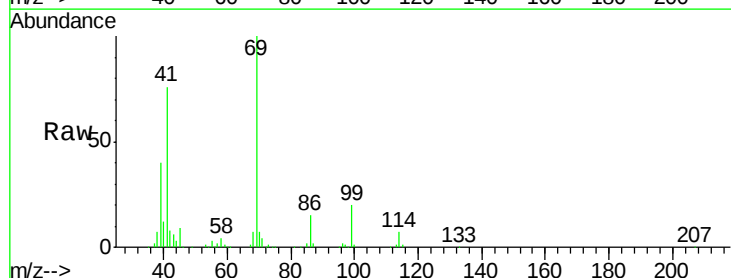
Tgt Ion: 69 Resp: 88663

Ion Ratio Lower Upper

69 100

41 76.2 57.5 86.3

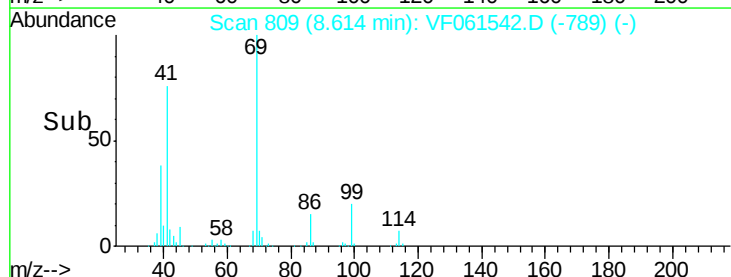
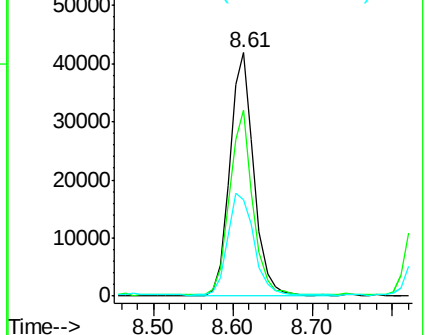
39 39.7 32.0 48.0

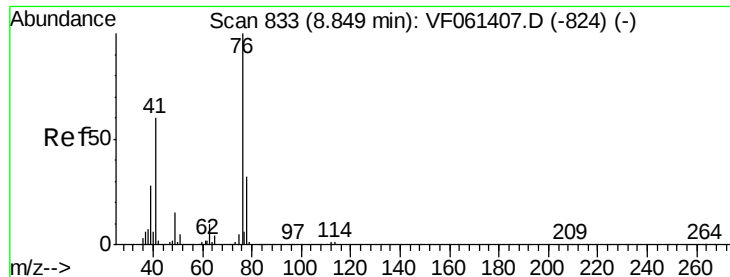


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 52.036 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

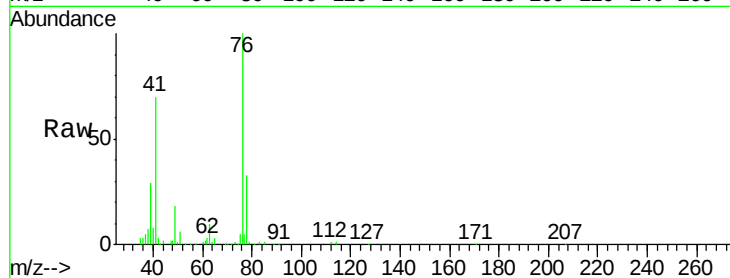
ClientSampleId :

Tot Ion: 76 Resp: 134123

Ion Ratio Lower Upper

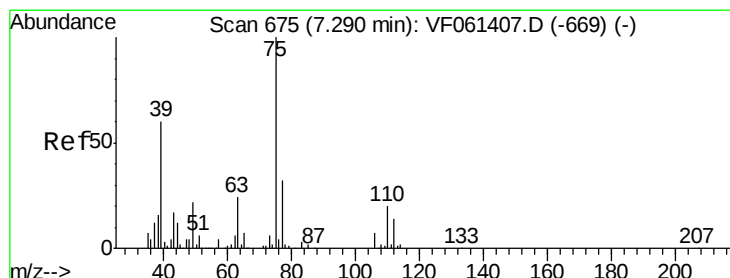
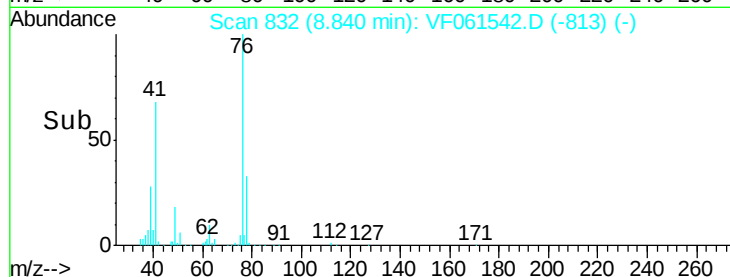
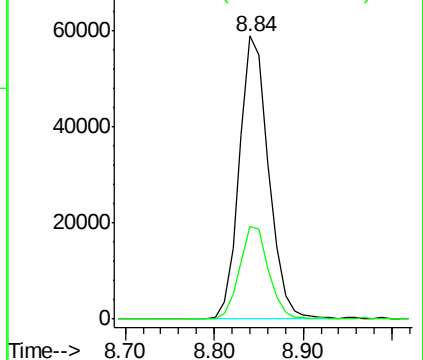
76 100

78 32.6 25.3 37.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 337.578 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061542.D

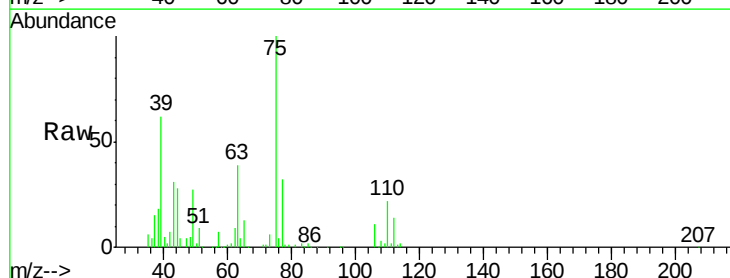
Acq: 7 Feb 2019 13:28

Tgt Ion: 63 Resp: 58451

Ion Ratio Lower Upper

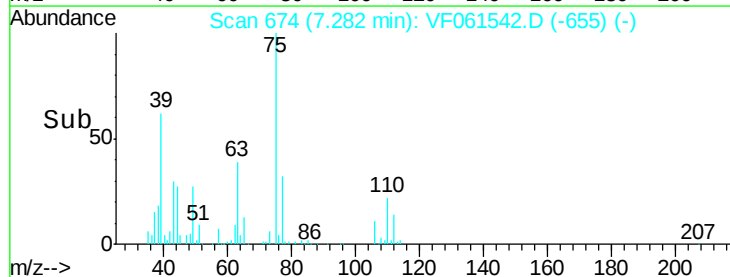
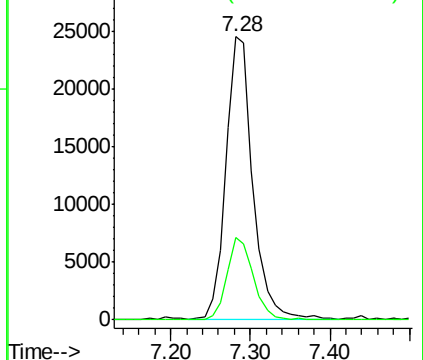
63 100

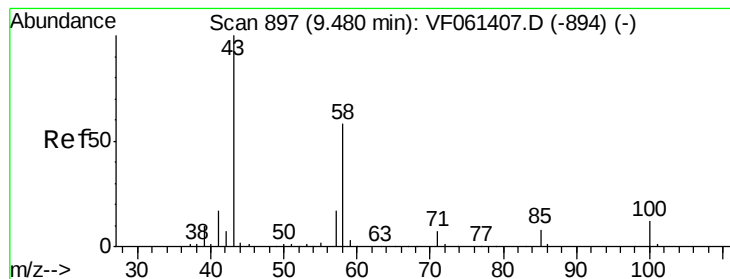
106 29.0 21.9 32.9



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 304.602 ug/l

RT: 9.48 min Scan# 897

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

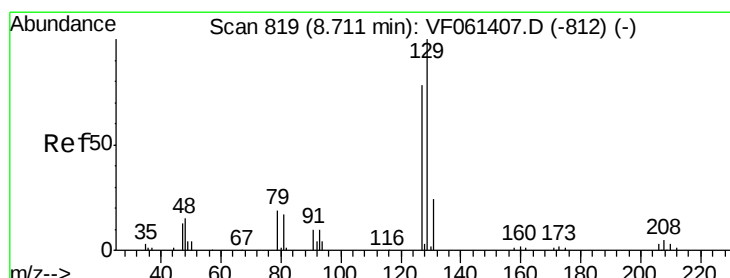
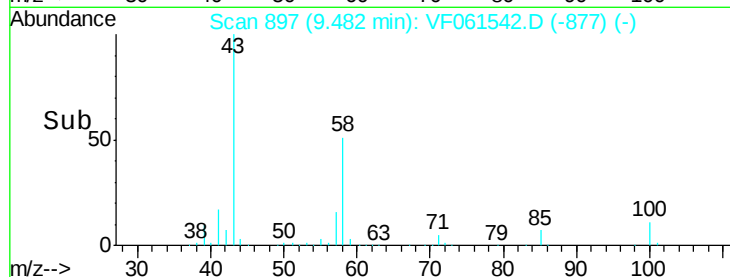
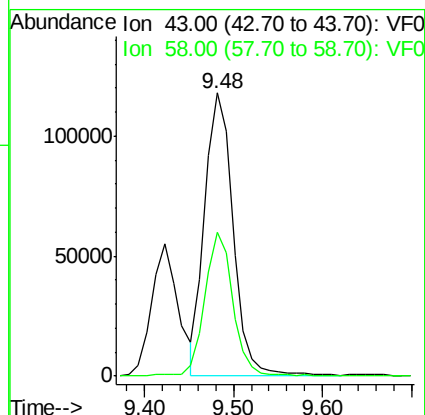
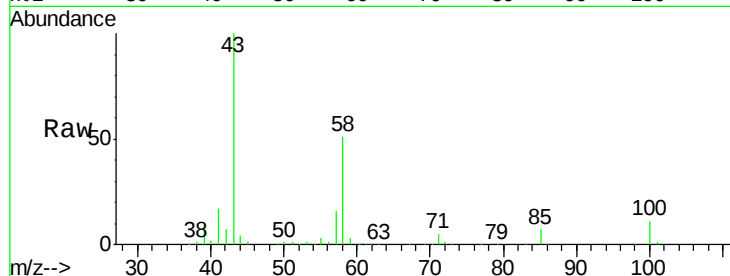
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 258886

Ion Ratio Lower Upper

43 100

58 50.7 25.9 77.6



#60

Dibromochloromethane

Concen: 55.143 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.01 min

Lab File: VF061542.D

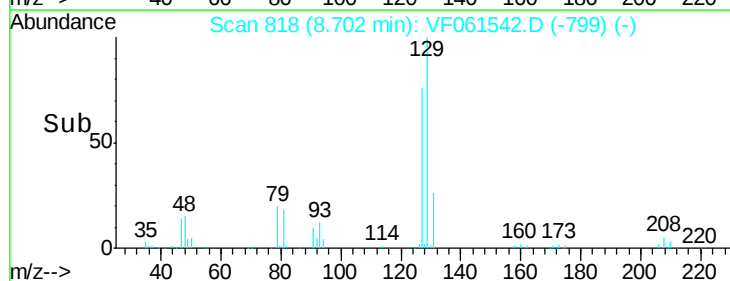
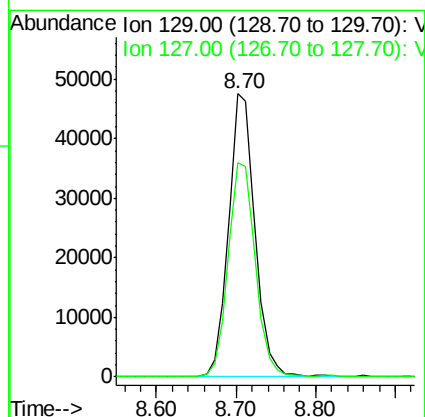
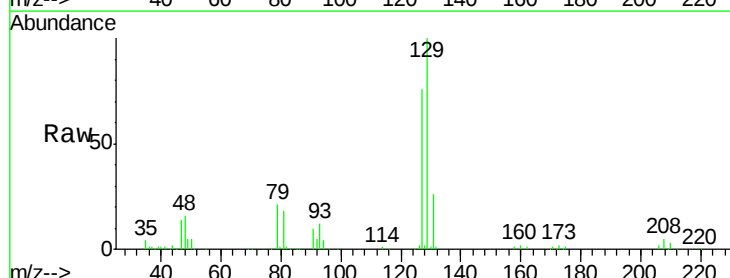
Acq: 7 Feb 2019 13:28

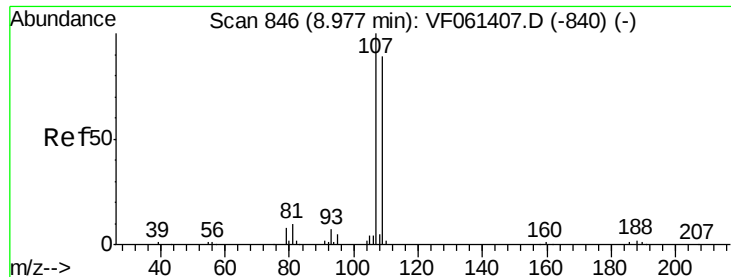
Tgt Ion:129 Resp: 110858

Ion Ratio Lower Upper

129 100

127 75.6 39.1 117.2





#61

1,2-Dibromoethane

Concen: 54.162 ug/l

RT: 8.98 min Scan# 846

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

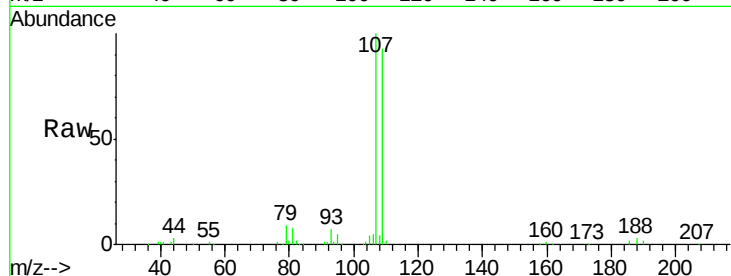
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:107 Resp: 85263

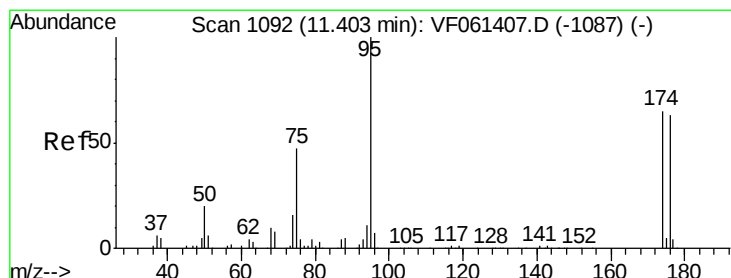
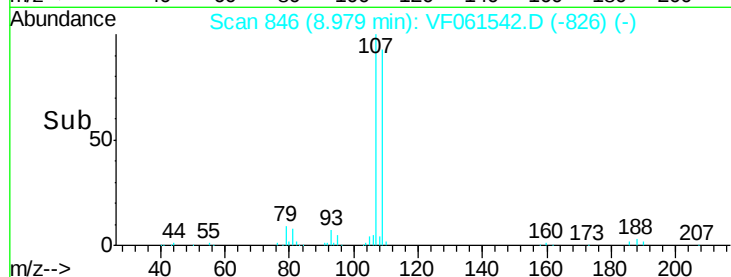
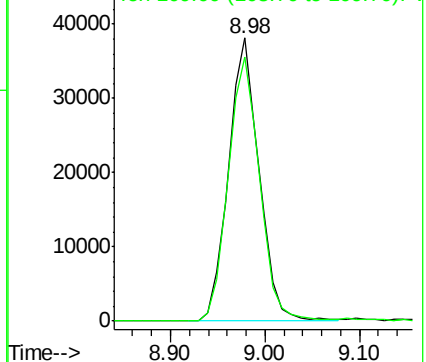
Ion Ratio Lower Upper

107 100

109 93.1 70.8 106.2



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 48.692 ug/l

RT: 11.41 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

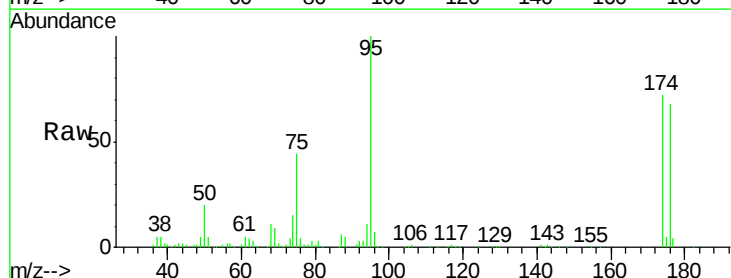
Tgt Ion: 95 Resp: 140186

Ion Ratio Lower Upper

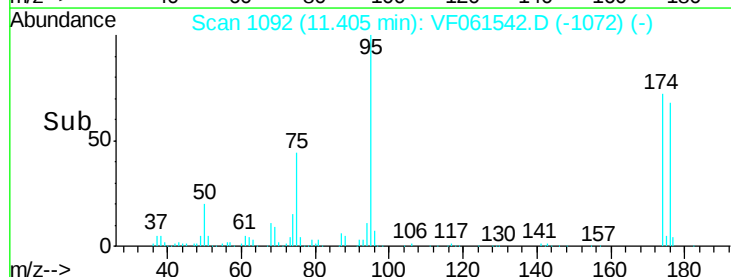
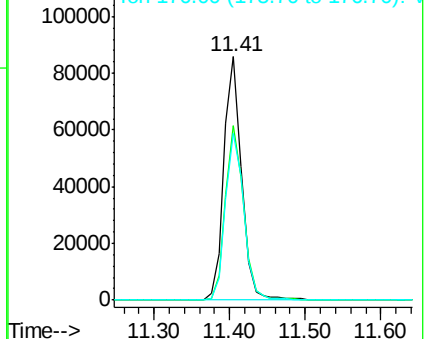
95 100

174 71.5 0.0 130.4

176 68.4 0.0 126.2



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

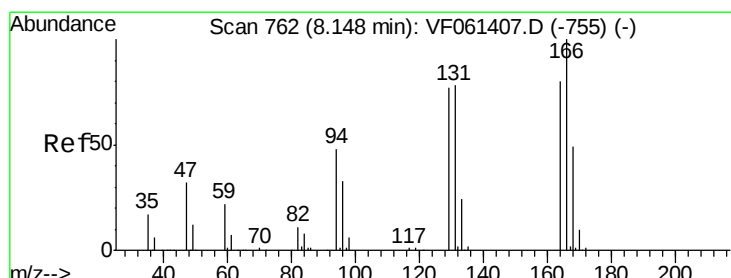
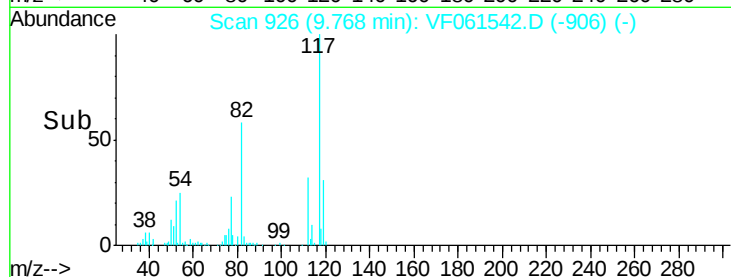
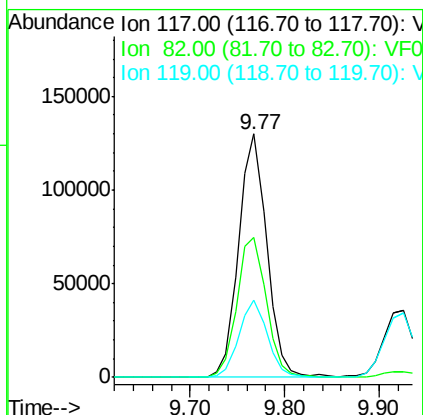
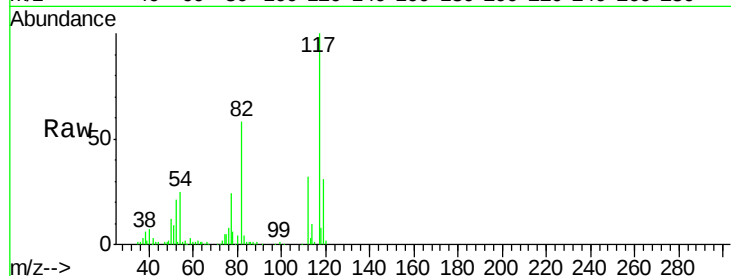




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

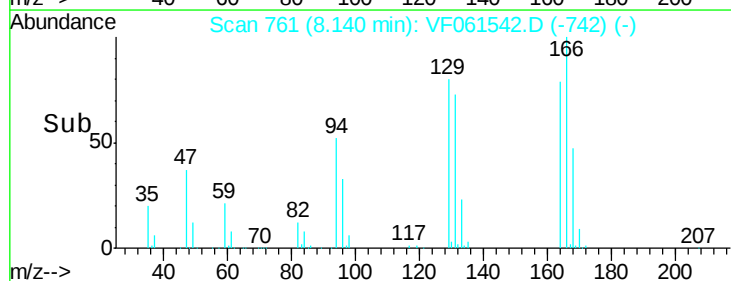
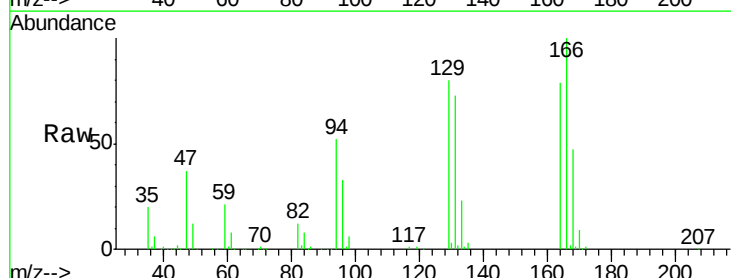
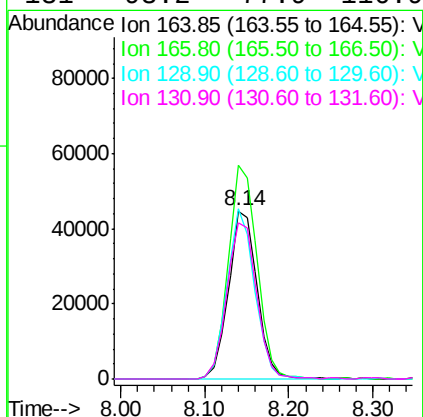
Instrument :
MSVOA_F
ClientSampleId :

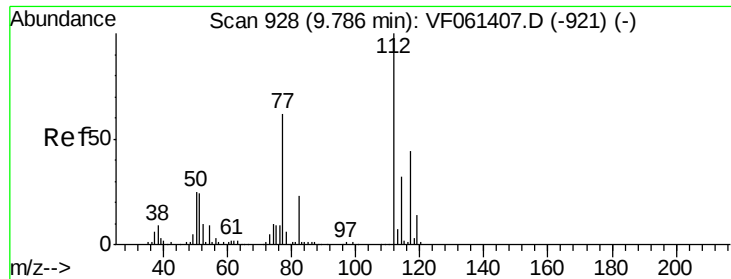
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.4	69.6
119	31.5	27.2	40.8



#64
Tetrachloroethene
Concen: 52.193 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.3	99.6	149.4
129	101.6	76.4	114.6
131	93.2	77.9	116.9





#65

Chlorobenzene

Concen: 48.721 ug/l

RT: 9.79 min Scan# 928

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

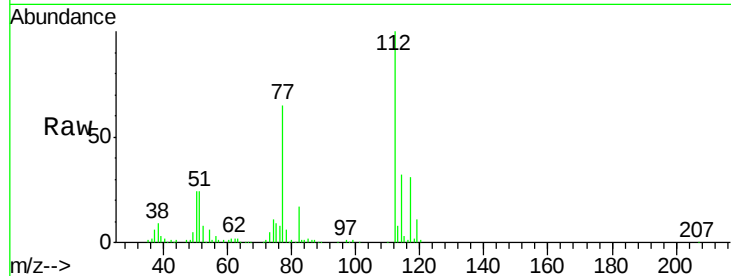
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:112 Resp: 267088

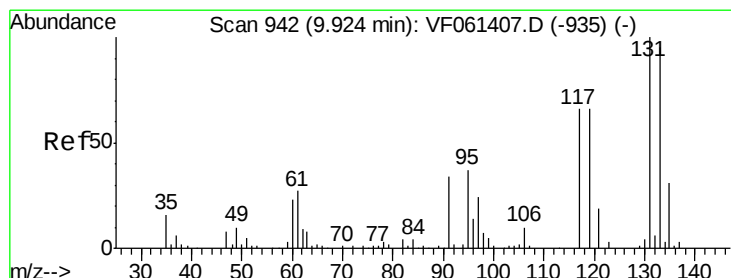
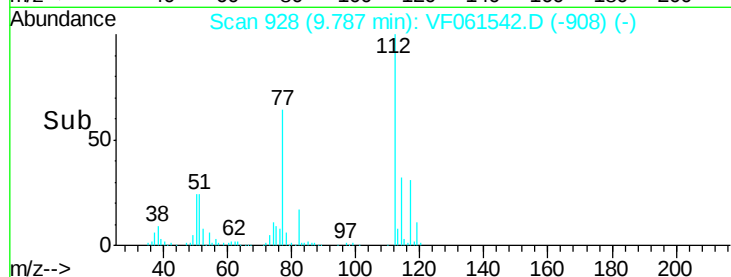
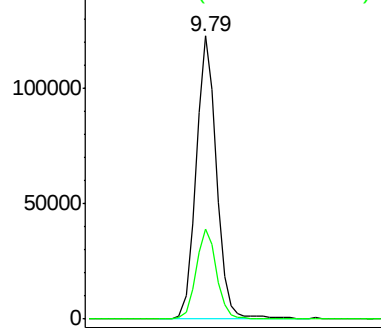
Ion Ratio Lower Upper

112 100

114 32.0 25.4 38.0



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: 52.312 ug/l

RT: 9.93 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

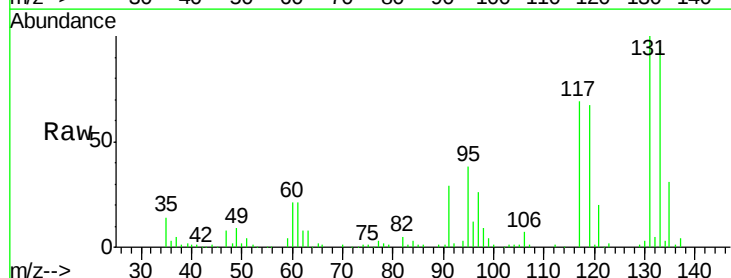
Tgt Ion:131 Resp: 114241

Ion Ratio Lower Upper

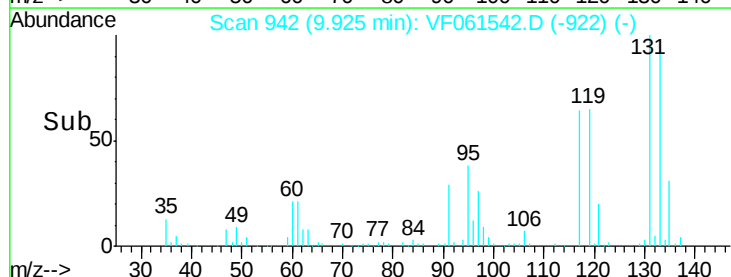
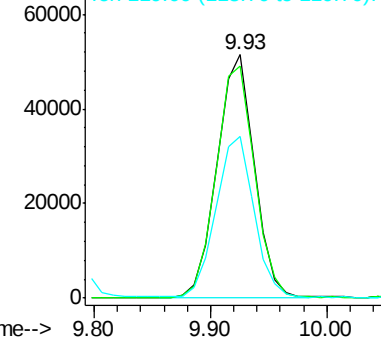
131 100

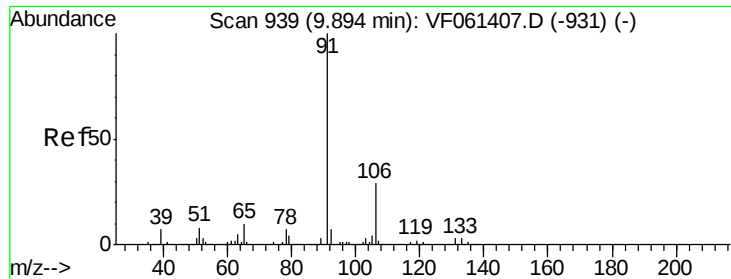
133 95.2 47.4 142.2

119 66.7 33.1 99.3



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

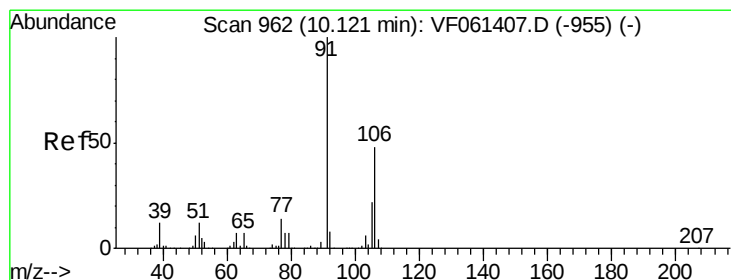
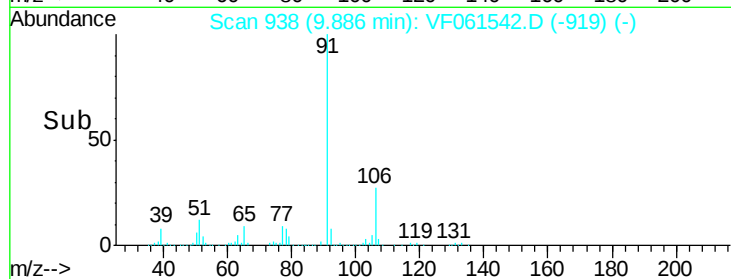
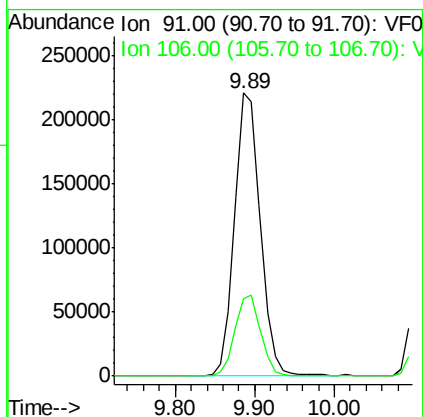
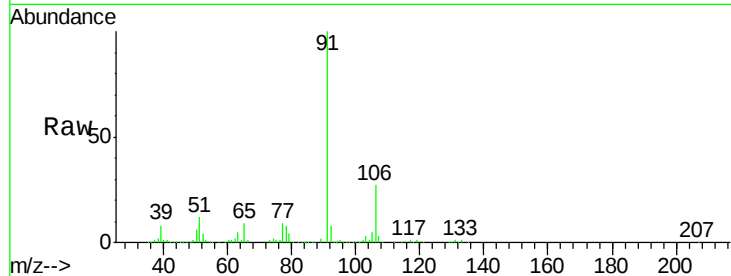




#67
Ethyl Benzene
Concen: 49.898 ug/l
RT: 9.89 min Scan# 938
Delta R.T. -0.01 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

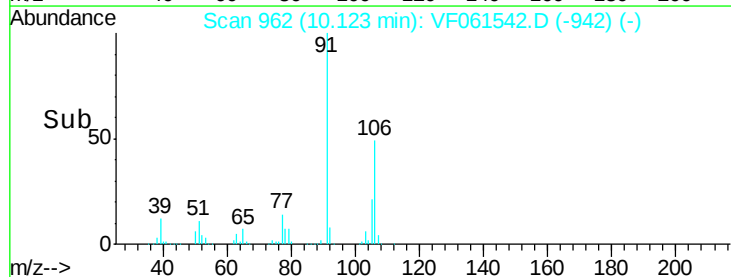
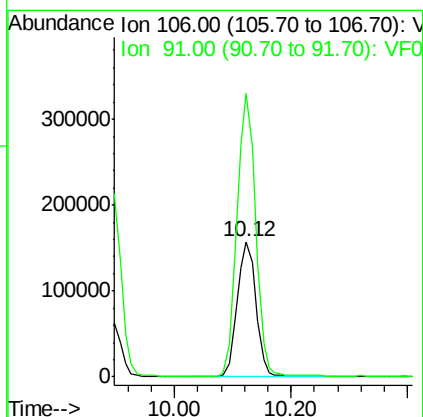
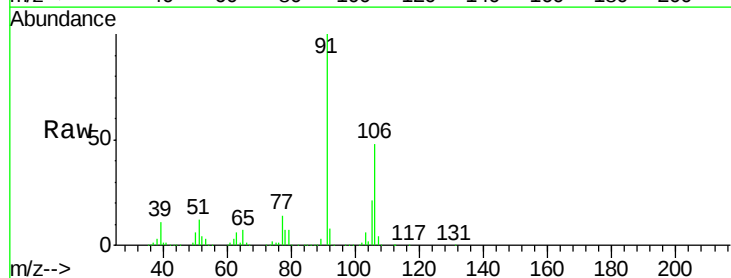
Instrument :
MSVOA_F
ClientSampleId :

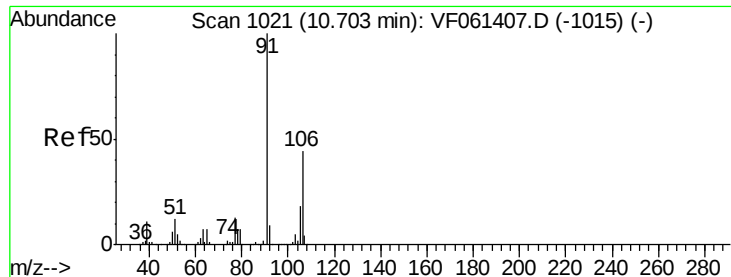
Tot Ion: 91 Resp: 499779
Ion Ratio Lower Upper
91 100
106 27.3 23.1 34.7



#68
m/p-Xylenes
Concen: 97.376 ug/l
RT: 10.12 min Scan# 962
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion: 106 Resp: 350787
Ion Ratio Lower Upper
106 100
91 209.6 166.2 249.4

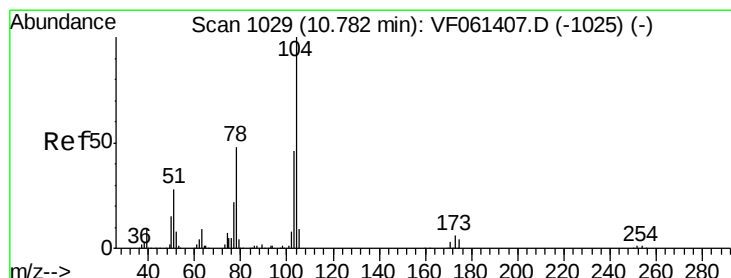
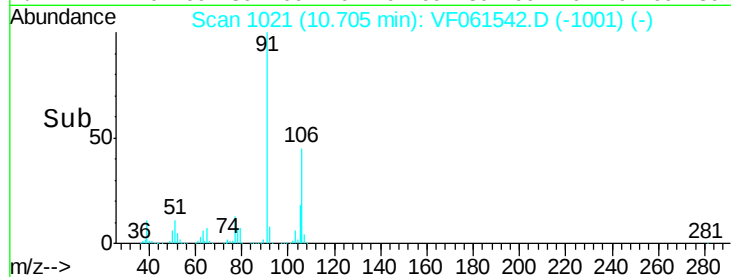
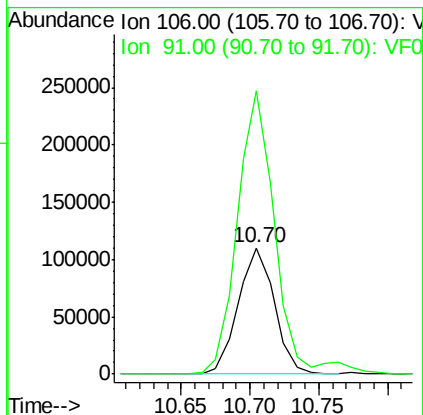
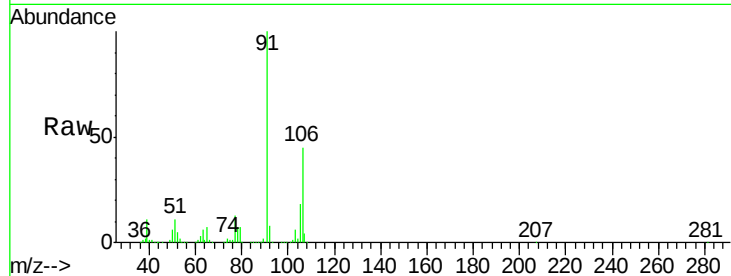




#69
o-Xylene
Concen: 52.019 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

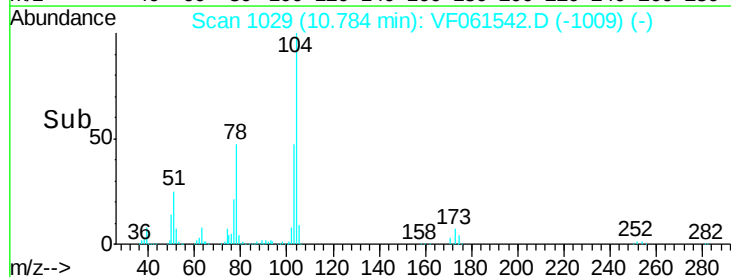
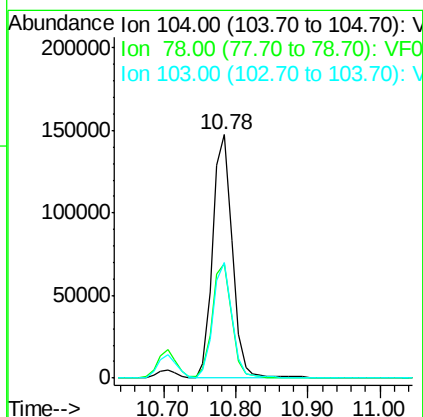
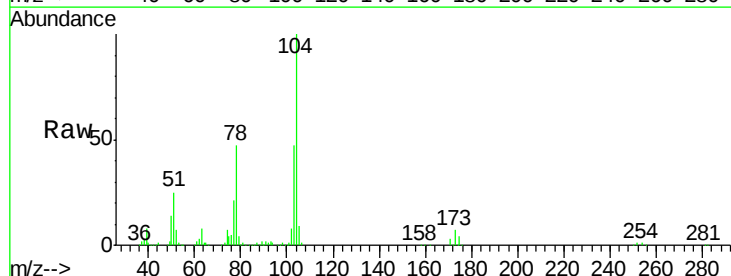
Instrument :
MSVOA_F
ClientSampleId :

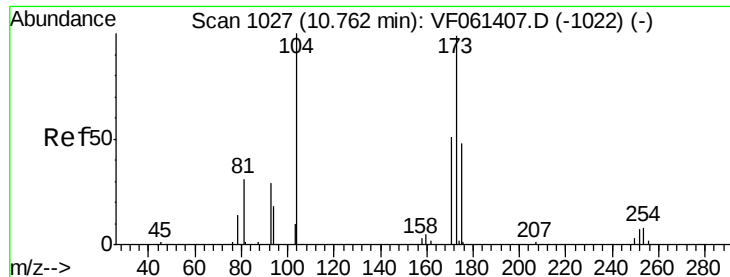
Tot Ion:106 Resp: 203099
Ion Ratio Lower Upper
106 100
91 223.9 113.3 339.8



#70
Styrene
Concen: 51.043 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion:104 Resp: 272795
Ion Ratio Lower Upper
104 100
78 47.2 38.8 58.2
103 47.3 37.0 55.6





#71

Bromoform

Concen: 60.444 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

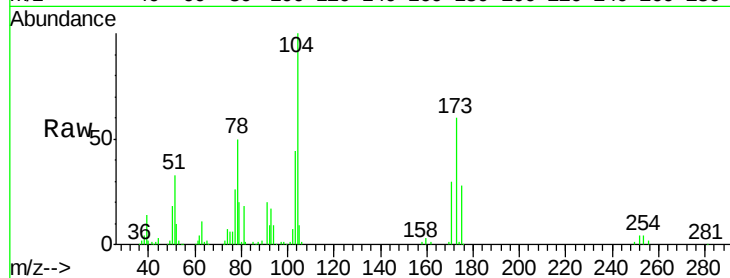
Tot Ion:173 Resp: 59309

Ion Ratio Lower Upper

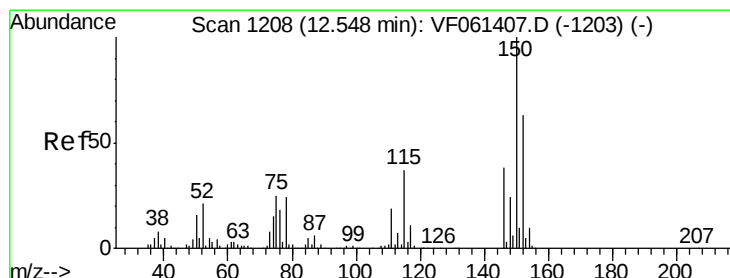
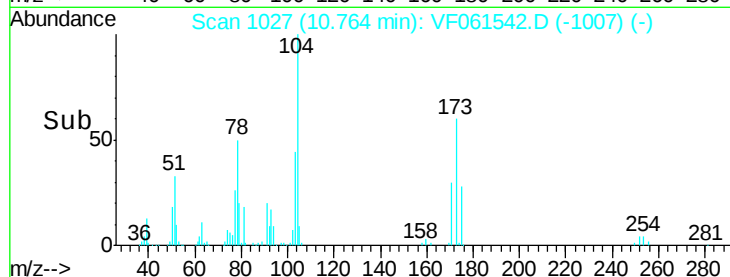
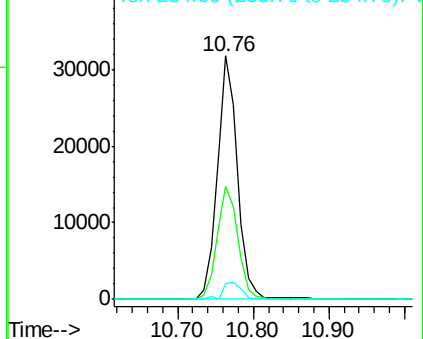
173 100

175 46.5 24.1 72.4

254 6.3 0.0 0.0#



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# 1208

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

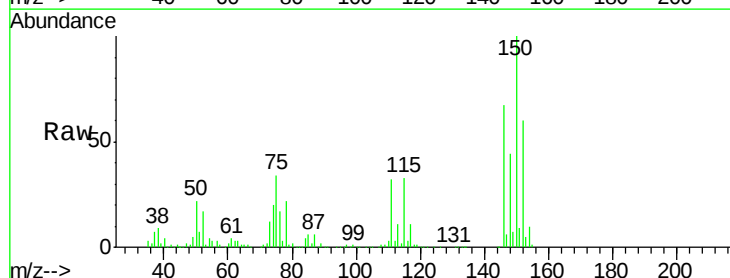
Tgt Ion:152 Resp: 138722

Ion Ratio Lower Upper

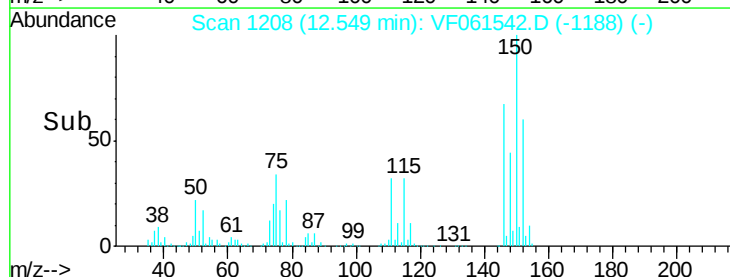
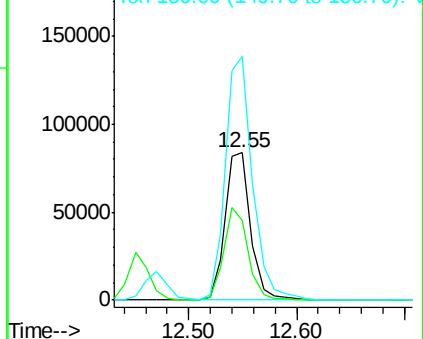
152 100

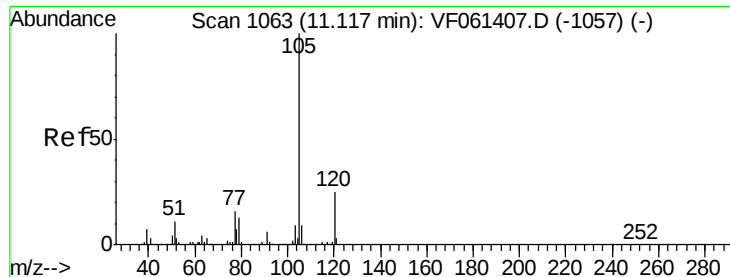
115 53.8 30.0 90.0

150 165.4 0.0 321.4



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: 53.337 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

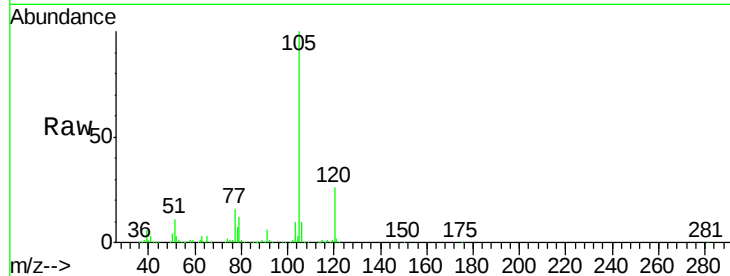
ClientSampleId :

Tot Ion: 105 Resp: 601776

Ion Ratio Lower Upper

105 100

120 25.6 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.12

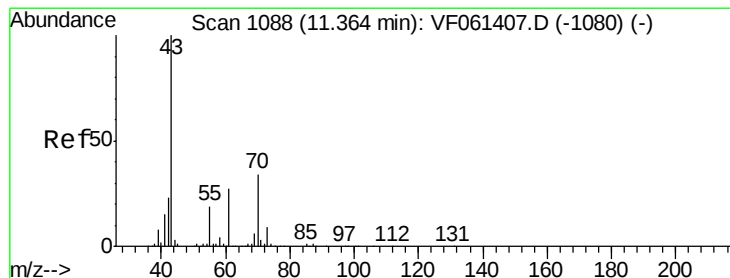
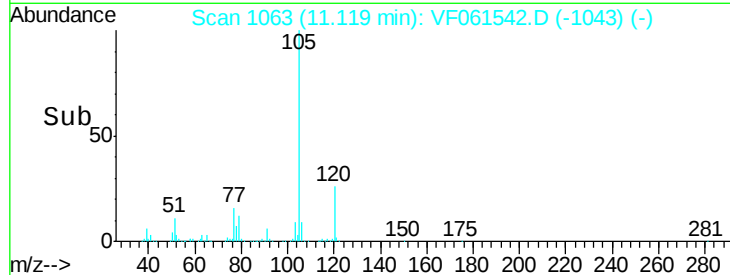
300000

200000

100000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 55.223 ug/l

RT: 11.37 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Tgt Ion: 43 Resp: 147329

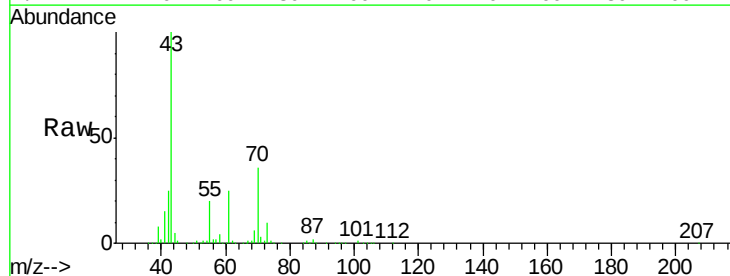
Ion Ratio Lower Upper

43 100

70 36.2 27.6 41.4

55 19.5 15.4 23.2

61 25.1 21.8 32.6



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

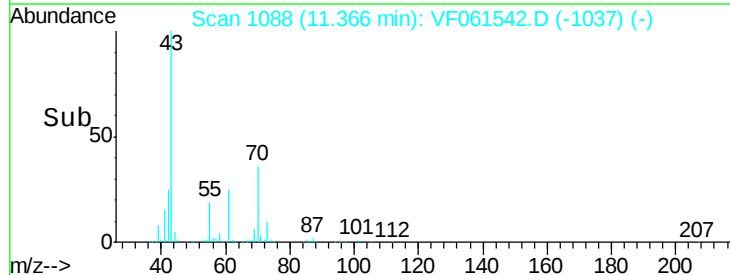
11.37

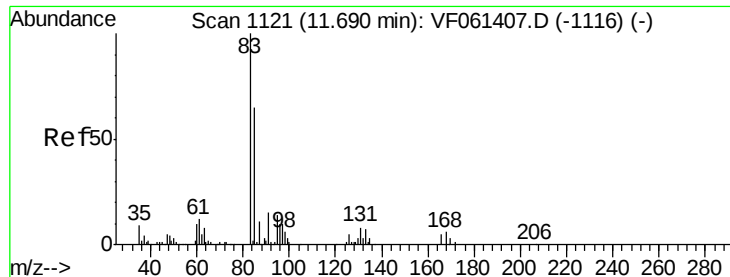
100000

50000

0

Time--> 11.20 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 49.838 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

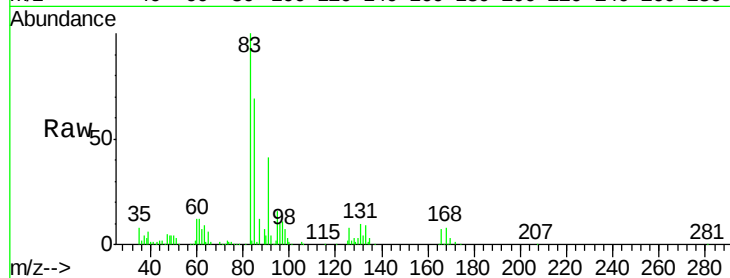
Tot Ion: 83 Resp: 100171

Ion Ratio Lower Upper

83 100

131 10.4 4.0 12.2

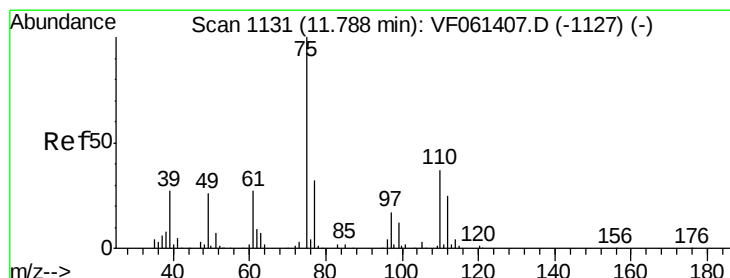
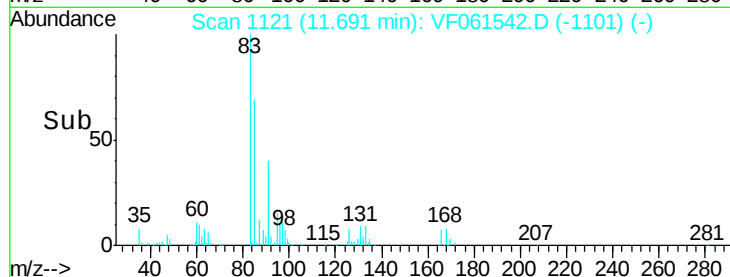
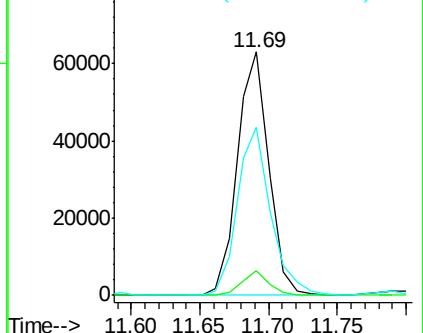
85 68.8 32.7 98.1



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: 49.783 ug/l

RT: 11.79 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VF061542.D

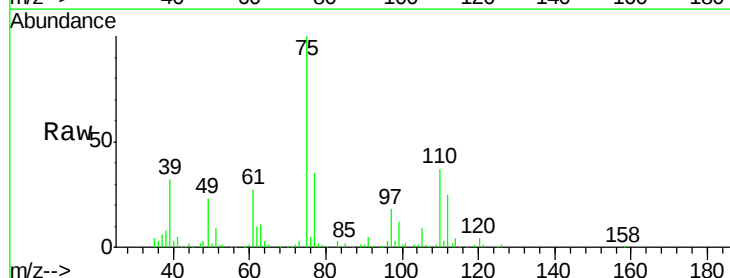
Acq: 7 Feb 2019 13:28

Tgt Ion: 75 Resp: 71899

Ion Ratio Lower Upper

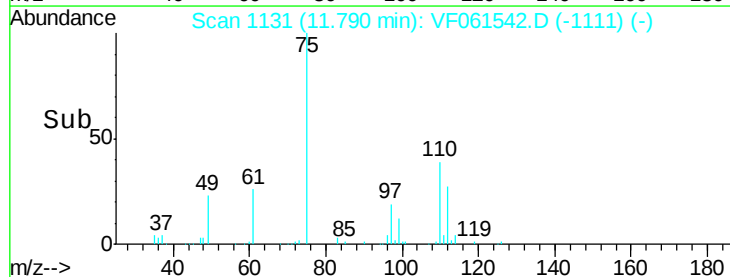
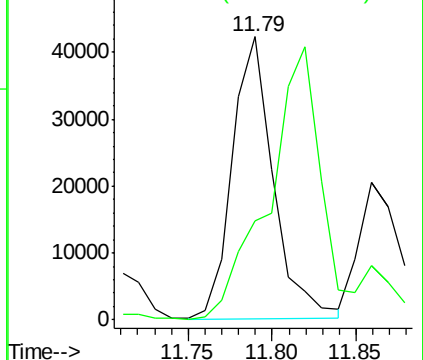
75 100

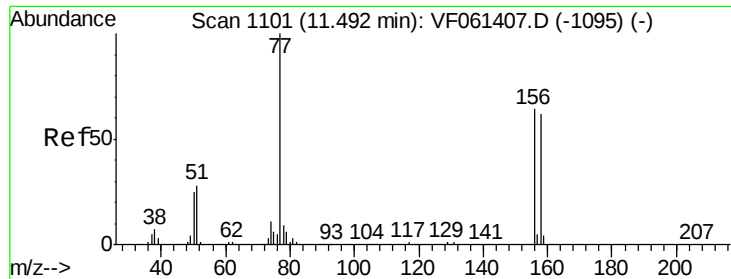
77 34.9 16.1 48.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 53.178 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

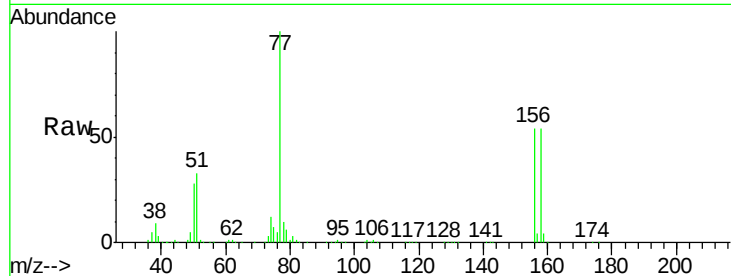
Tot Ion:156 Resp: 126710

Ion Ratio Lower Upper

156 100

77 184.9 78.3 234.9

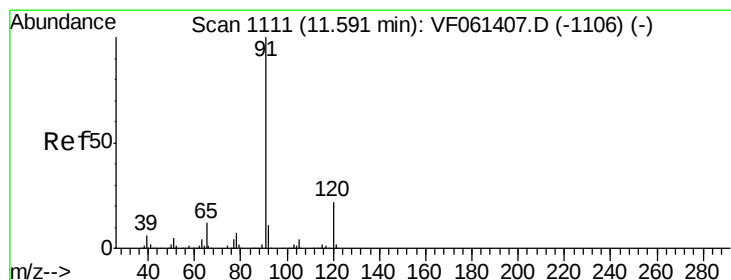
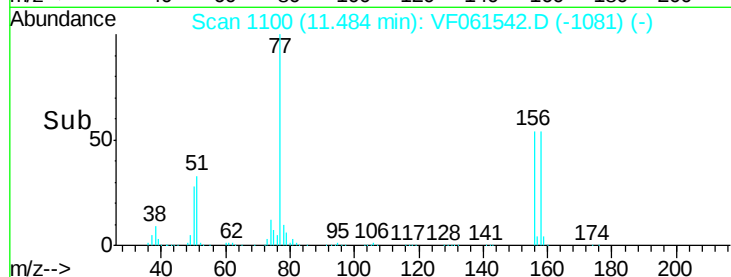
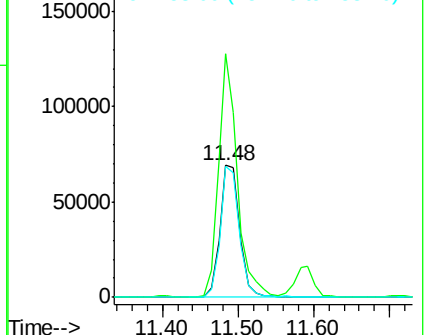
158 99.5 48.9 146.7



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: 48.324 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF061542.D

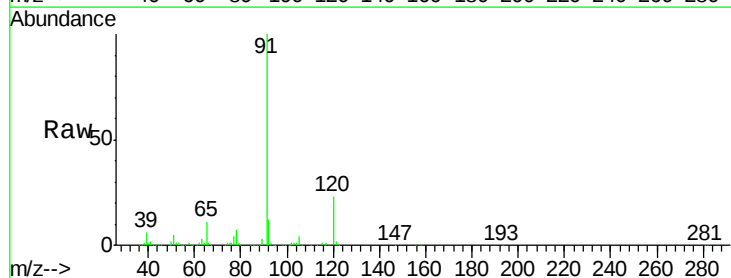
Acq: 7 Feb 2019 13:28

Tgt Ion: 91 Resp: 666808

Ion Ratio Lower Upper

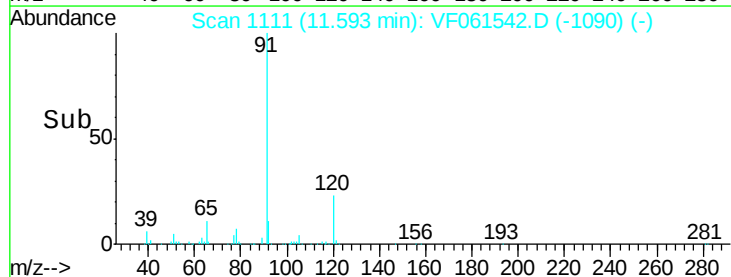
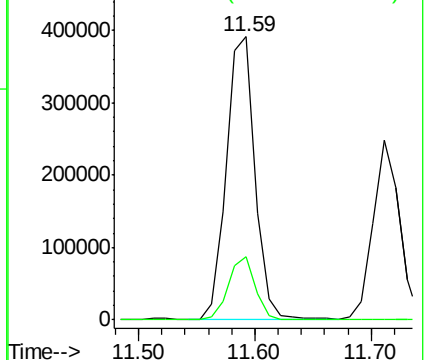
91 100

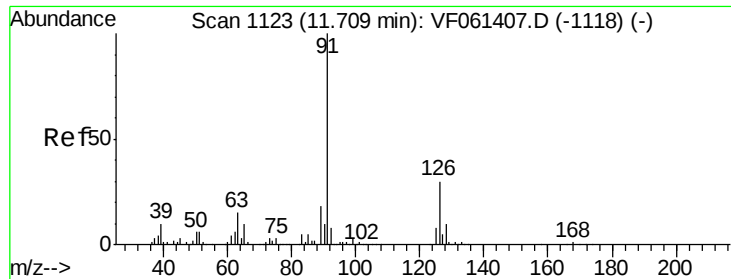
120 22.6 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.358 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

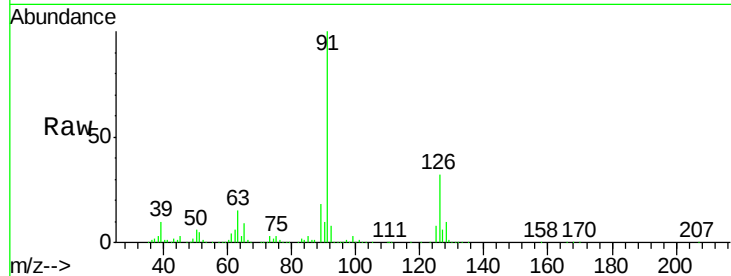
ClientSampleId :

Tot Ion: 91 Resp: 386389

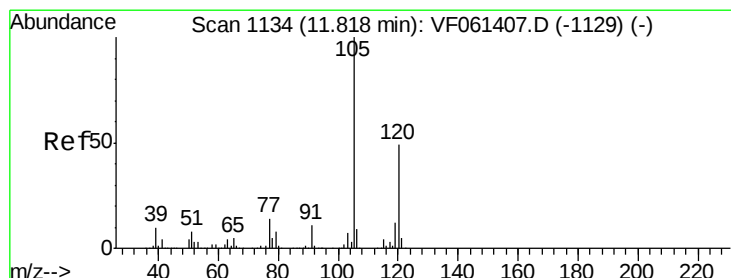
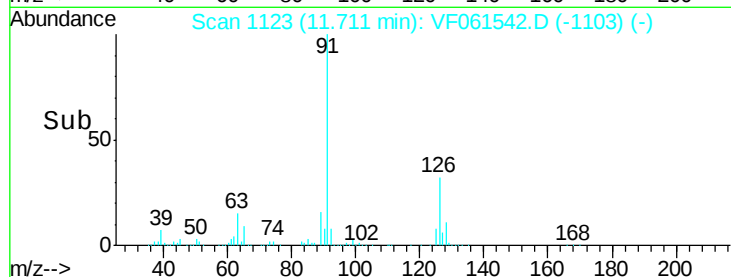
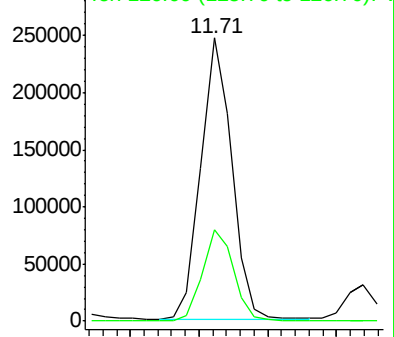
Ion Ratio Lower Upper

91 100

126 32.2 15.0 45.1



Abundance Ion 91.00 (90.70 to 91.70): VF061407.D (-1118) (-)



#80

1,3,5-Trimethylbenzene

Concen: 49.260 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VF061542.D

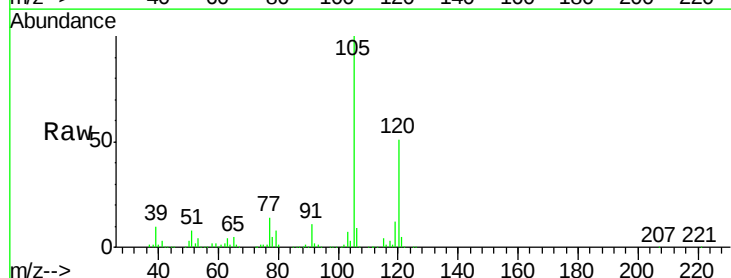
Acq: 7 Feb 2019 13:28

Tgt Ion: 105 Resp: 448524

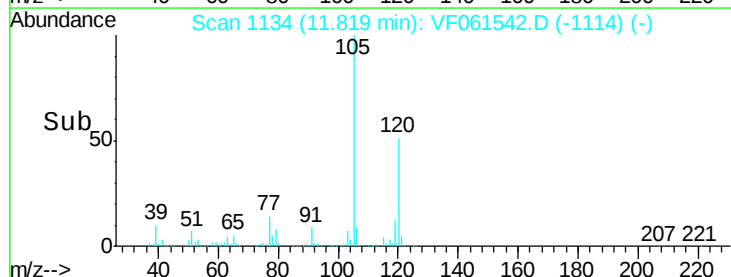
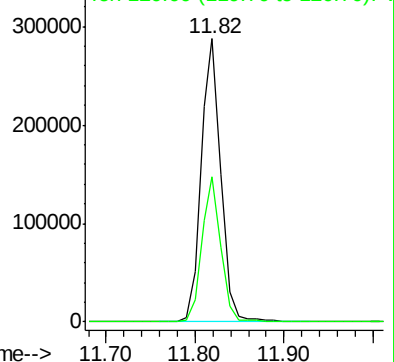
Ion Ratio Lower Upper

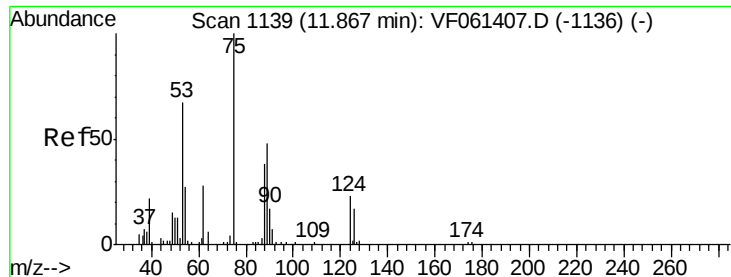
105 100

120 51.4 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VF061407.D (-1129) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 72.323 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

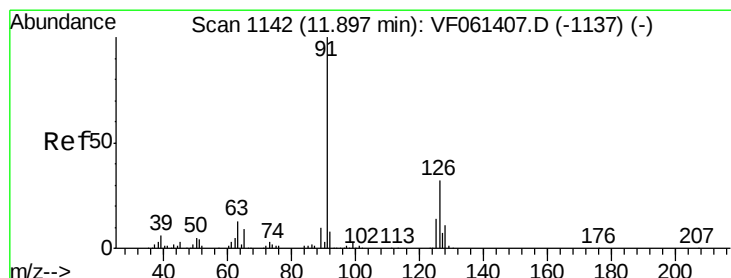
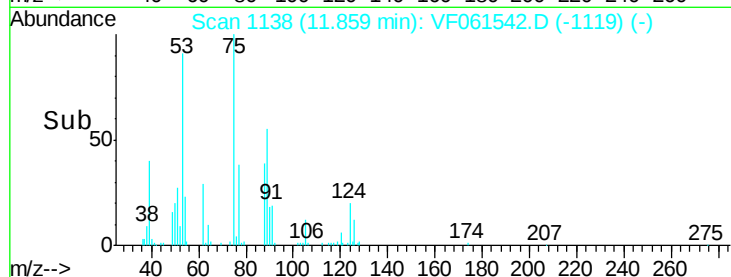
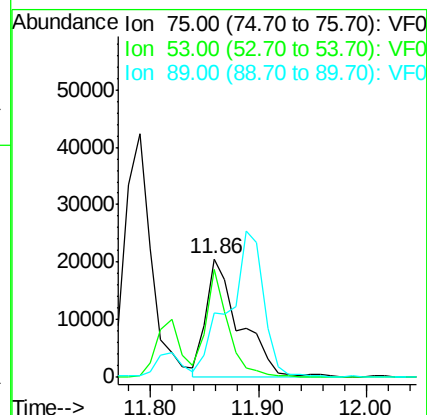
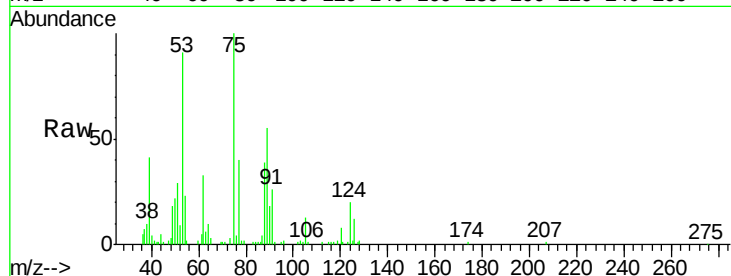
Tot Ion: 75 Resp: 45406

Ion Ratio Lower Upper

75 100

53 90.9 57.8 86.6#

89 54.6 40.7 61.1



#82

4-Chlorotoluene

Concen: 48.954 ug/l

RT: 11.89 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF061542.D

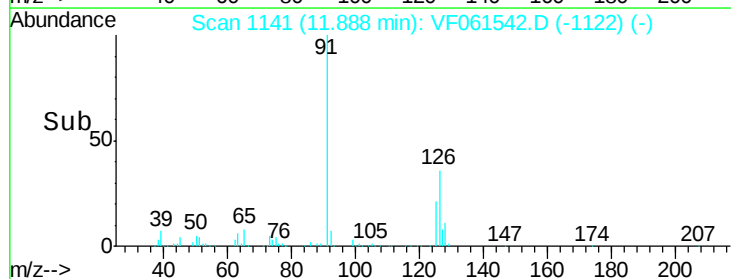
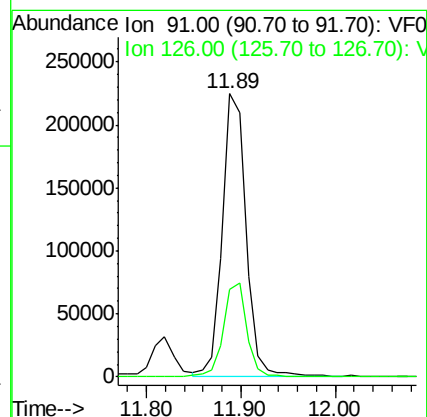
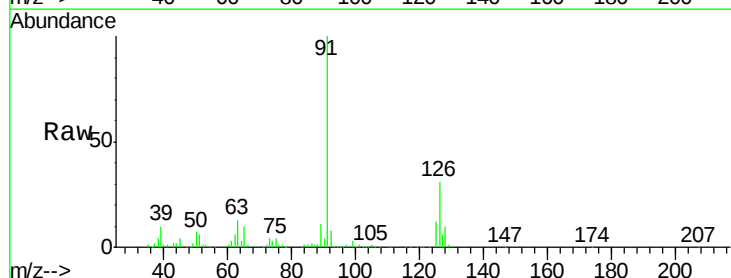
Acq: 7 Feb 2019 13:28

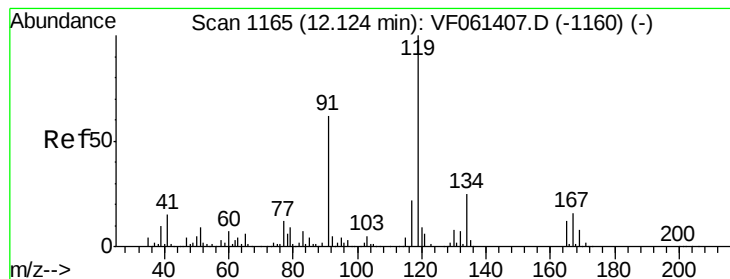
Tgt Ion: 91 Resp: 386707

Ion Ratio Lower Upper

91 100

126 30.8 16.0 47.9





#83

tert-Butylbenzene

Concen: 52.345 ug/l

RT: 12.13 min Scan# 1165

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

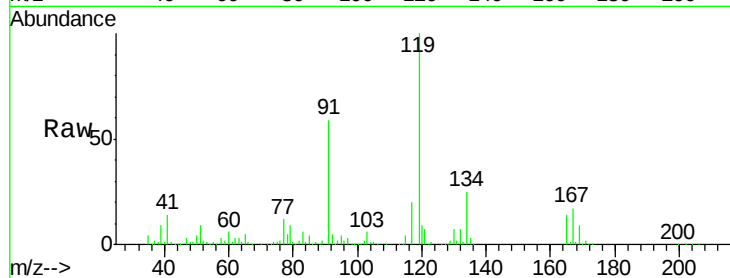
Tot Ion:119 Resp: 493301

Ion Ratio Lower Upper

119 100

91 58.8 31.3 93.8

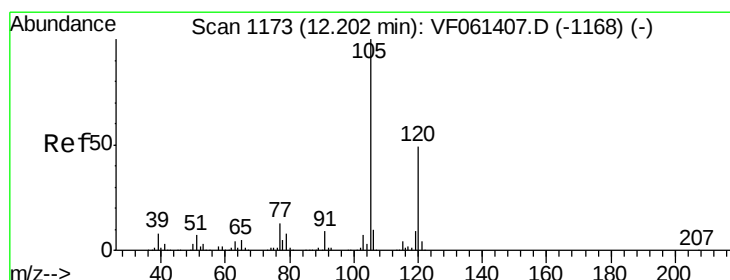
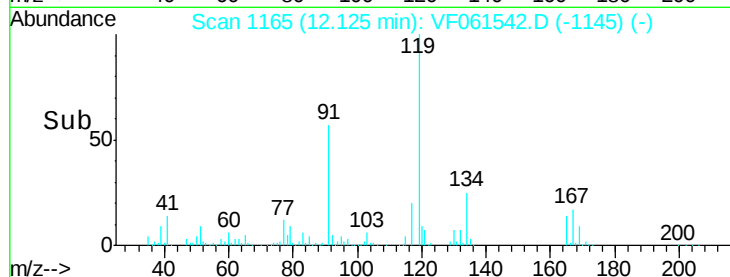
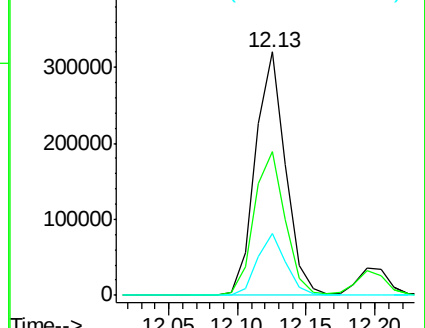
134 25.4 12.4 37.0



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: 49.307 ug/l

RT: 12.19 min Scan# 1172

Delta R.T. -0.01 min

Lab File: VF061542.D

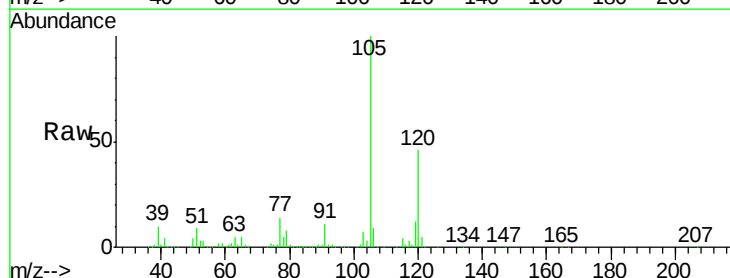
Acq: 7 Feb 2019 13:28

Tgt Ion:105 Resp: 462444

Ion Ratio Lower Upper

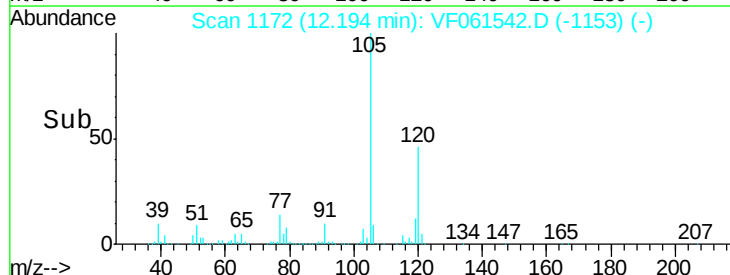
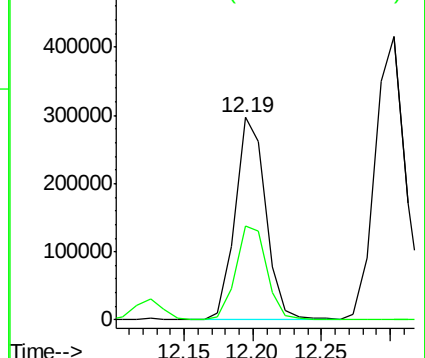
105 100

120 46.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 50.059 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

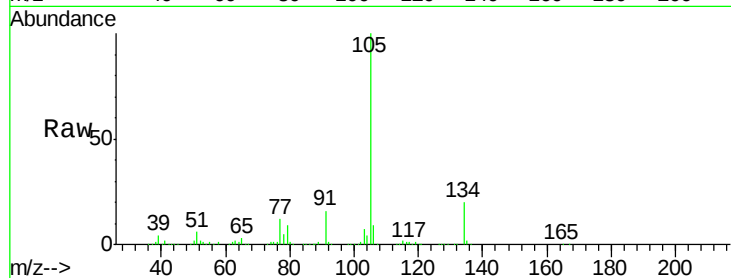
ClientSampleId :

Tot Ion:105 Resp: 640665

Ion Ratio Lower Upper

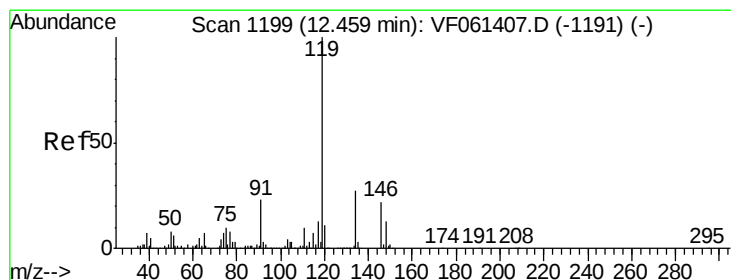
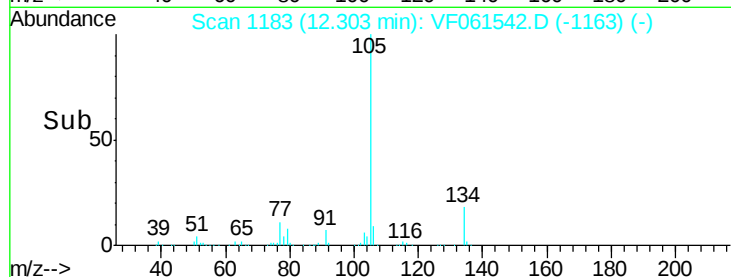
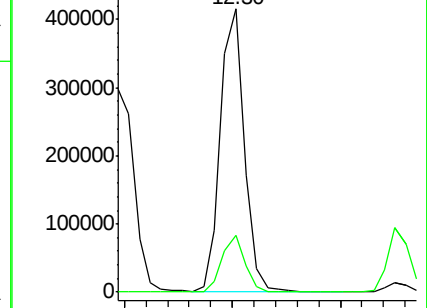
105 100

134 20.2 10.0 30.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.368 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

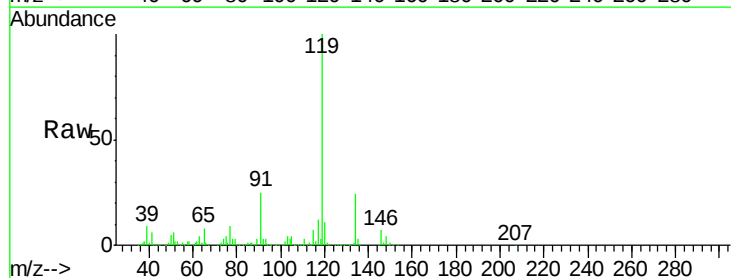
Tgt Ion:119 Resp: 539671

Ion Ratio Lower Upper

119 100

134 24.4 13.4 40.2

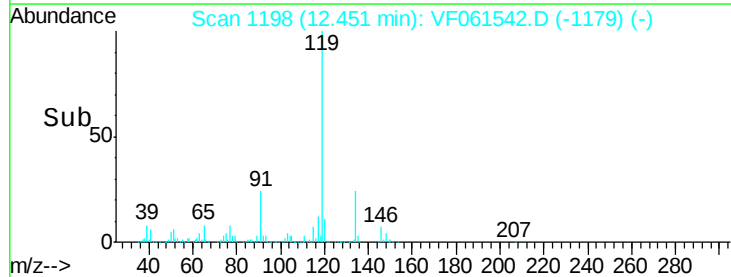
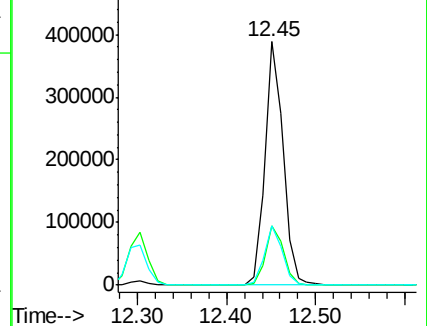
91 24.5 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

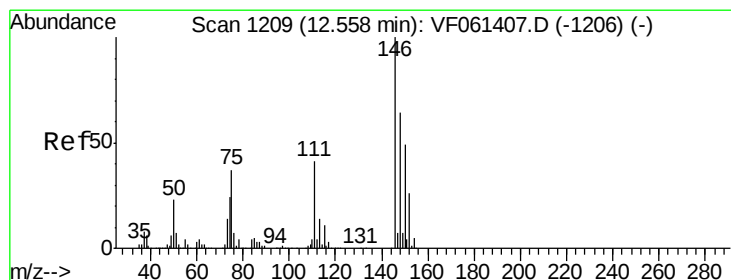
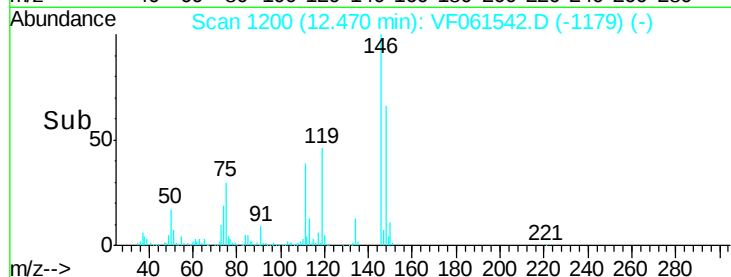
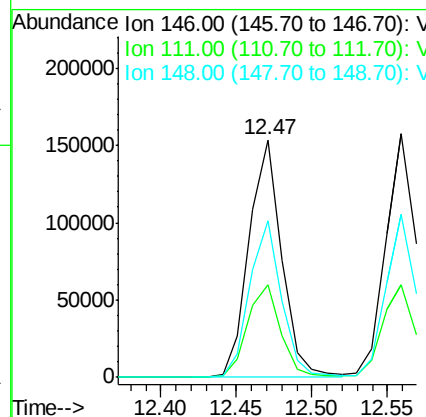
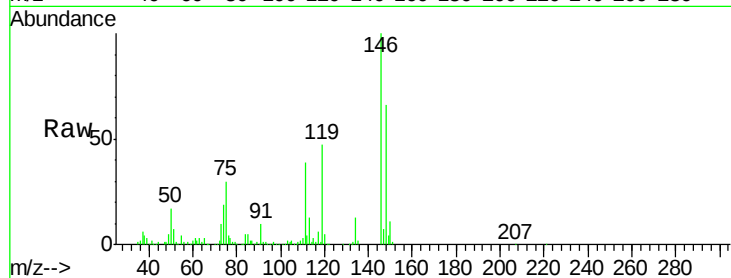




#87
 1,3-Dichlorobenzene
 Concen: 48.834 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

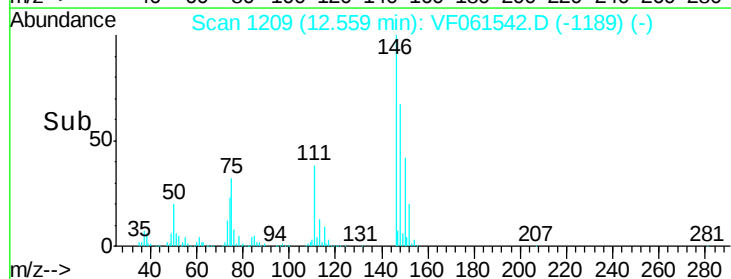
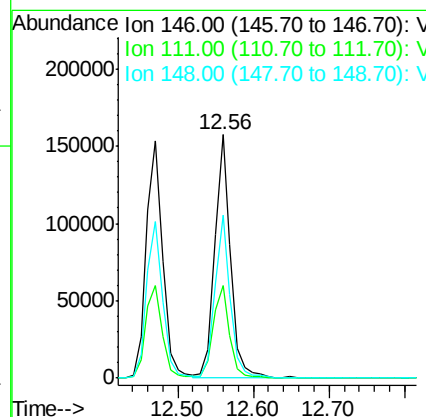
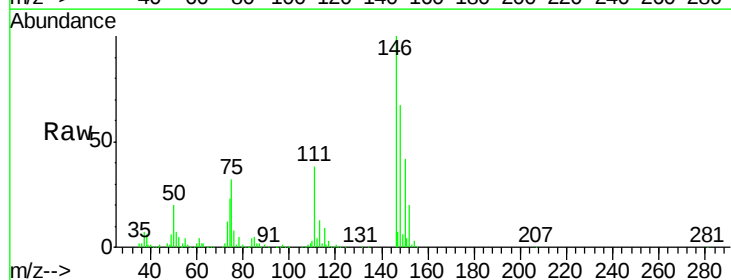
Instrument :
 MSVOA_F
 ClientSampleId :

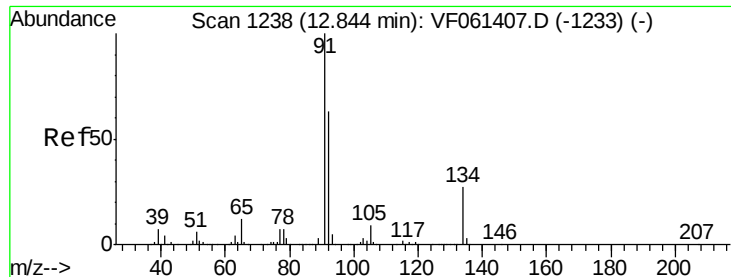
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	21.1	63.4
148	65.8	32.9	98.6



#88
 1,4-Dichlorobenzene
 Concen: 51.725 ug/l
 RT: 12.56 min Scan# 1209
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	20.8	62.2
148	67.1	32.1	96.5

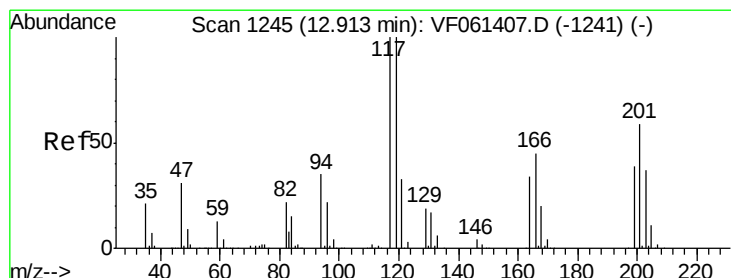
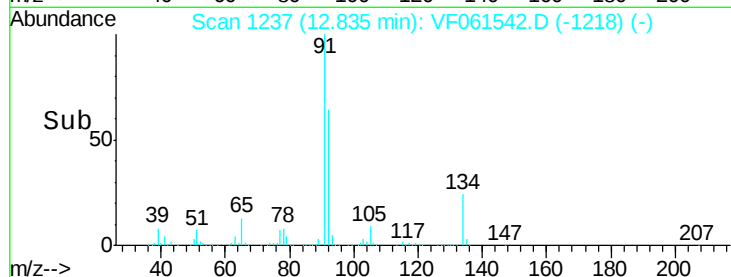
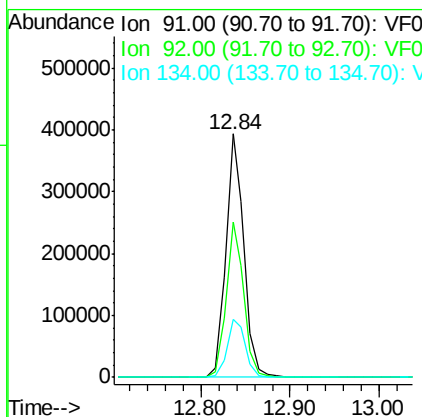
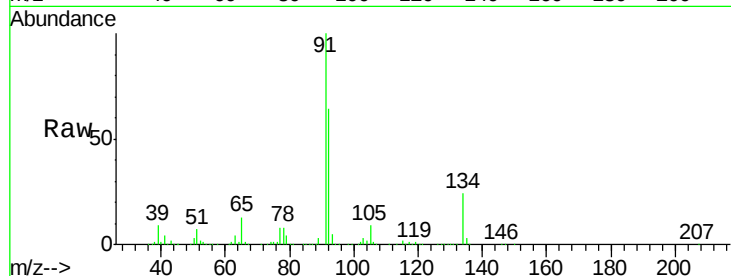




#89
n-Butylbenzene
Concen: 51.897 ug/l
RT: 12.84 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

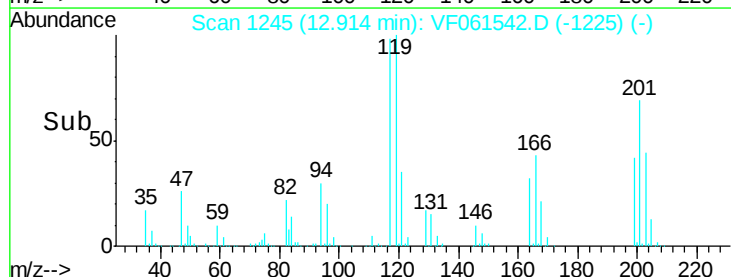
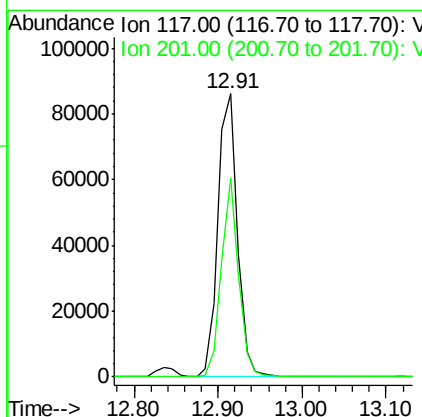
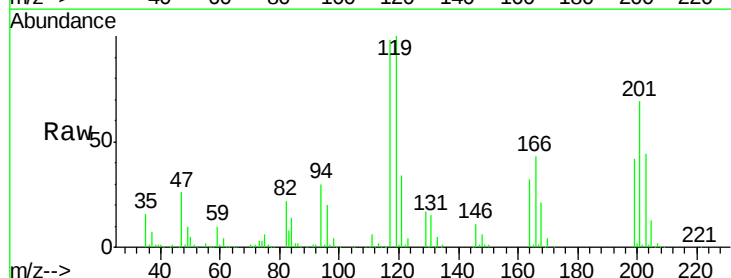
Instrument :
MSVOA_F
ClientSampleId :

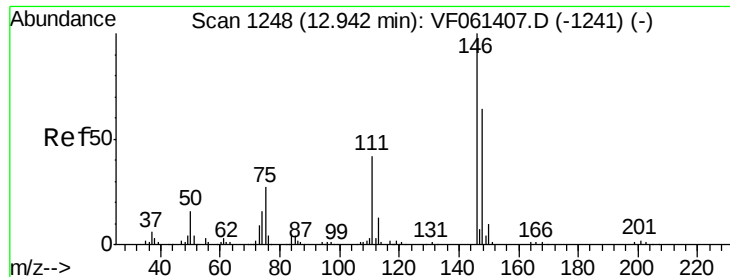
Tot Ion: 91 Resp: 562297
Ion Ratio Lower Upper
91 100
92 63.9 31.6 94.7
134 23.9 13.6 40.8



#90
Hexachloroethane
Concen: 56.144 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF061542.D
Acq: 7 Feb 2019 13:28

Tgt Ion: 117 Resp: 139041
Ion Ratio Lower Upper
117 100
201 71.7 29.3 87.8





#91

1,2-Dichlorobenzene

Concen: 50.496 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampleId :

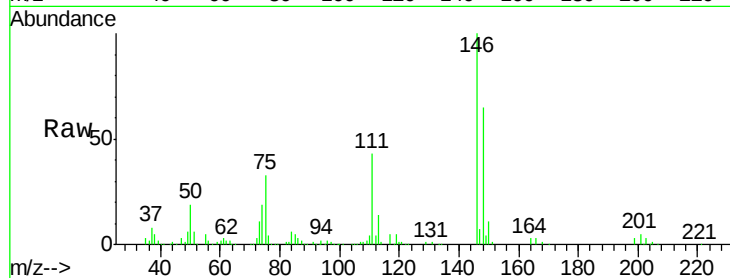
Tot Ion:146 Resp: 225079

Ion Ratio Lower Upper

146 100

111 43.4 21.1 63.3

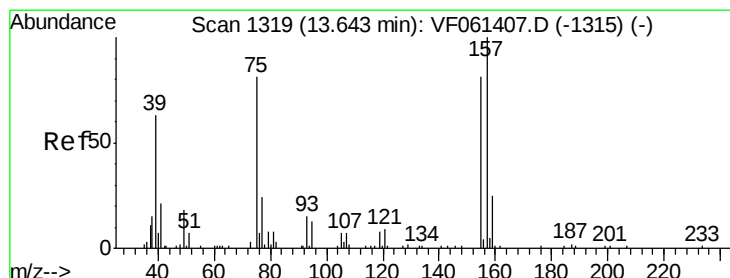
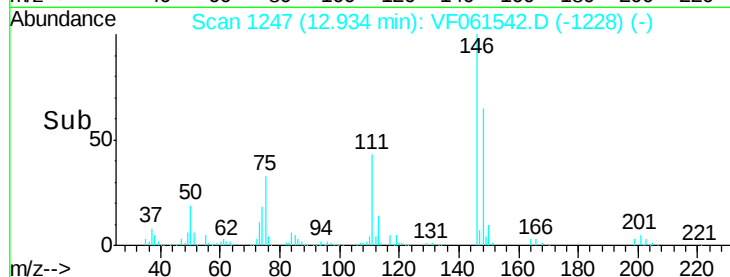
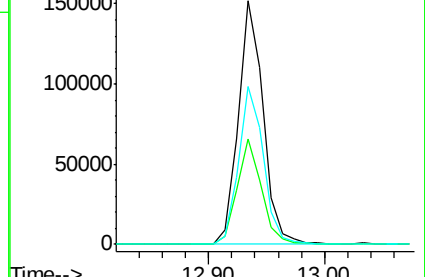
148 64.9 31.9 95.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 59.144 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

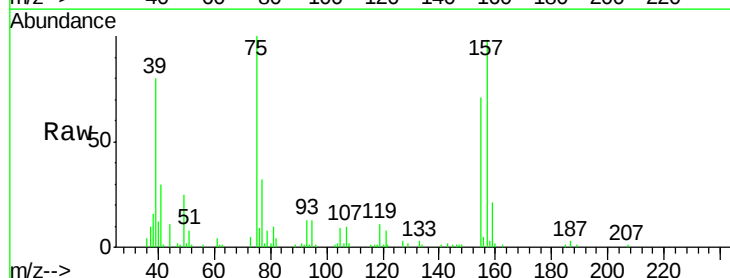
Tgt Ion: 75 Resp: 21085

Ion Ratio Lower Upper

75 100

155 71.3 49.7 149.1

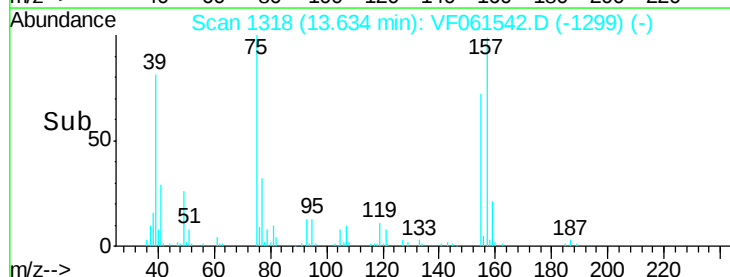
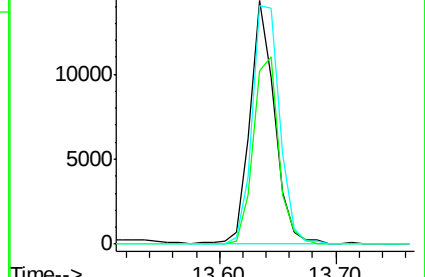
157 98.0 61.4 184.1

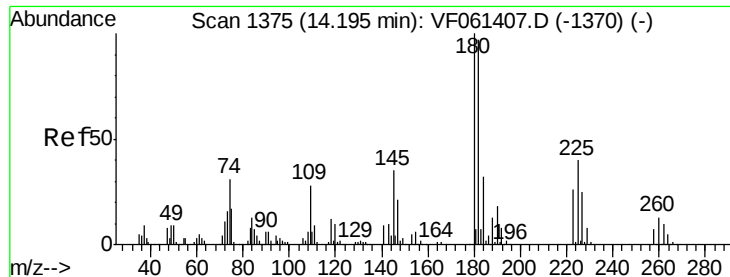


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

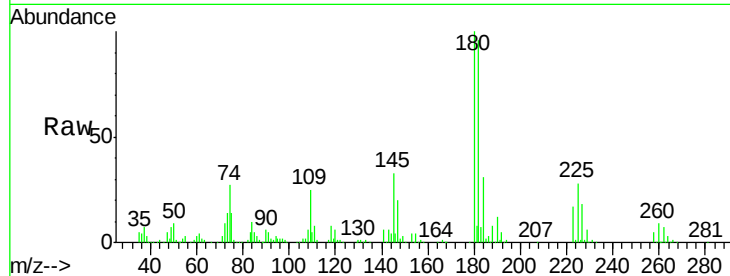




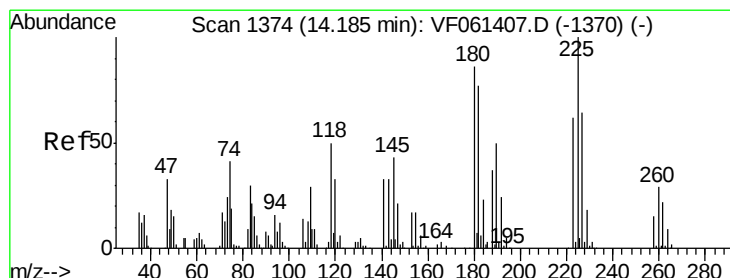
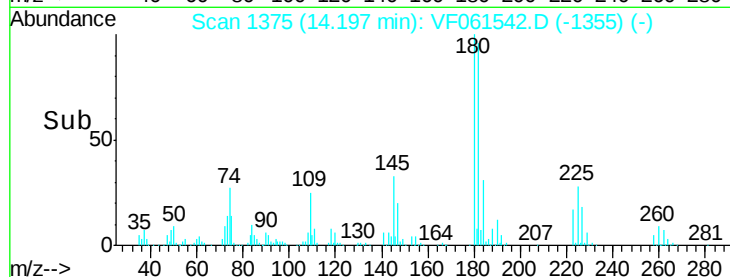
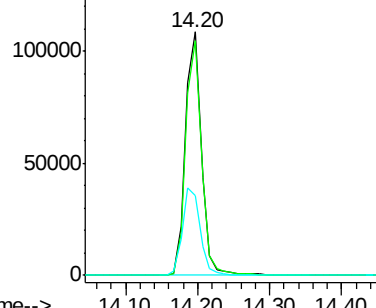
#93
 1,2,4-Trichlorobenzene
 Concen: 53.033 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion	180	Resp	165595
Ion Ratio	100	Lower	Upper
182	96.3	48.5	145.6
145	32.7	17.5	52.6

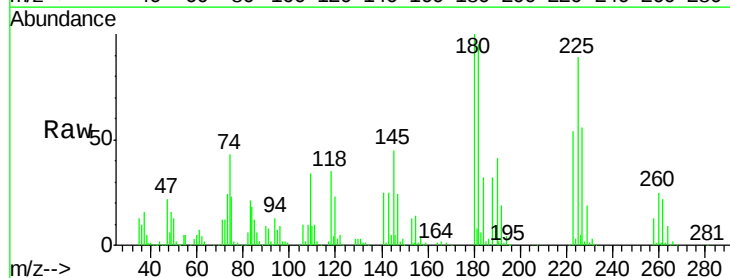


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

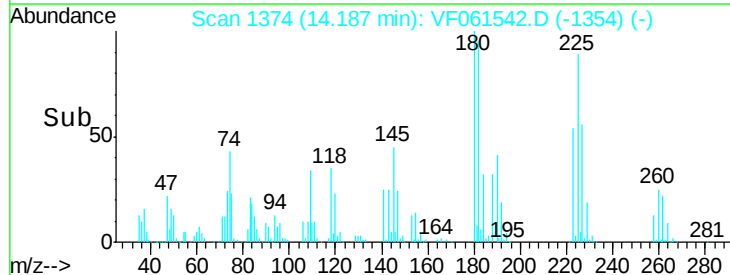
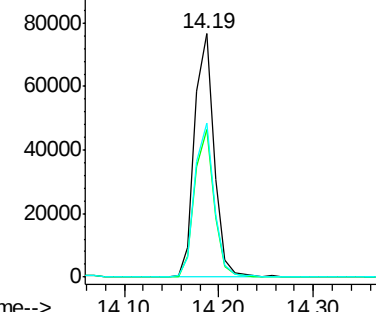


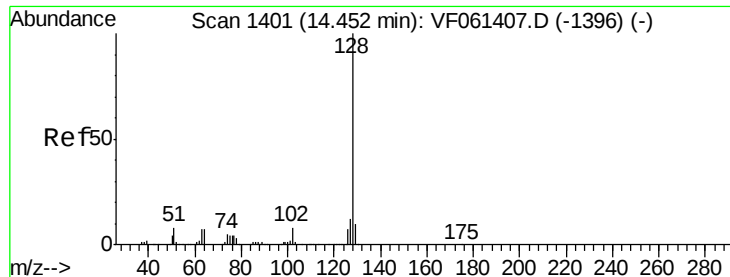
#94
 Hexachlorobutadiene
 Concen: 56.292 ug/l
 RT: 14.19 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VF061542.D
 Acq: 7 Feb 2019 13:28

Tgt Ion	225	Resp	109071
Ion Ratio	100	Lower	Upper
223	60.6	31.1	93.2
227	63.0	32.2	96.6



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 53.778 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. 0.00 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

Instrument :

MSVOA_F

ClientSampled :

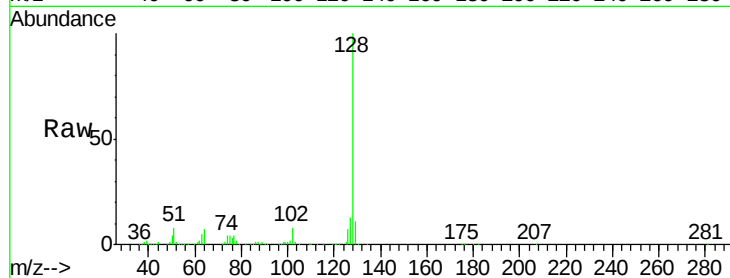
Tot Ion:128 Resp: 319037

Ion Ratio Lower Upper

128 100

127 13.3 9.5 14.3

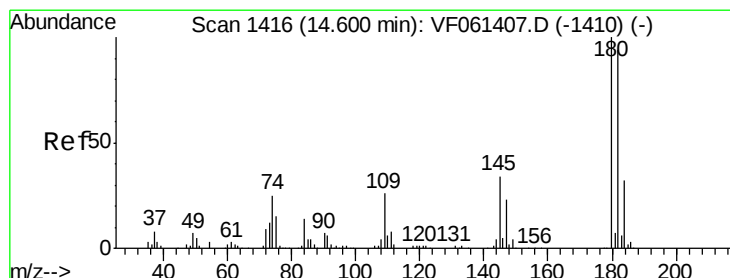
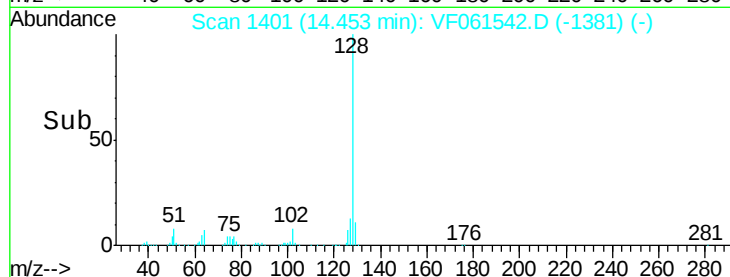
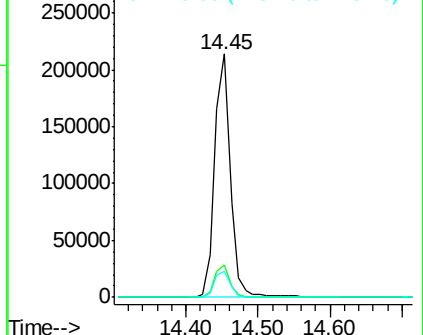
129 10.7 8.4 12.6



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: 53.049 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.01 min

Lab File: VF061542.D

Acq: 7 Feb 2019 13:28

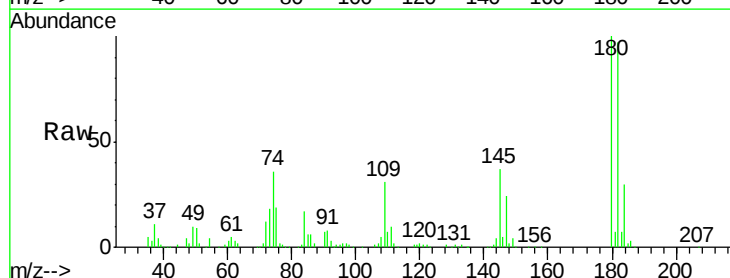
Tgt Ion:180 Resp: 153340

Ion Ratio Lower Upper

180 100

182 96.7 47.0 141.2

145 37.2 17.1 51.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

