

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF020819\
 Data File : VF061562.D
 Acq On : 8 Feb 2019 17:19
 Operator : VA/AP
 Sample : VF0208SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Quant Time: Feb 09 04:31:18 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	171947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	274080	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	266759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	137081	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	106487	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
35) Dibromofluoromethane	4.11	113	116583	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
50) Toluene-d8	7.55	98	306392	51.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.42%	
62) 4-Bromofluorobenzene	11.41	95	153107	55.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.95	85	58820	17.410	ug/l	88
3) Chloromethane	1.08	50	43718	17.648	ug/l	96
4) Vinyl Chloride	1.13	62	40733	18.484	ug/l	99
5) Bromomethane	1.33	94	28326	19.712	ug/l	94
6) Chloroethane	1.37	64	19897	20.377	ug/l	100
7) Trichlorofluoromethane	1.47	101	81942	19.128	ug/l	95
8) Diethyl Ether	1.63	74	11204	20.411	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.81	101	39396	19.139	ug/l	94
10) Methyl Iodide	1.89	142	58755	18.412	ug/l	94
11) Tert butyl alcohol	2.57	59	8052	89.607	ug/l	93
12) 1,1-Dichloroethene	1.78	96	29905	19.555	ug/l	86
13) Acrolein	1.87	56	133	11.984	ug/l	97
14) Allyl chloride	2.10	41	53137	31.721	ug/l	98
15) Acrylonitrile	2.94	53	23431	101.797	ug/l	97
16) Acetone	2.24	43	49533	116.307	ug/l	97
17) Carbon Disulfide	1.82	76	83375	17.485	ug/l	99
18) Methyl Acetate	2.35	43	16134	19.103	ug/l	95
19) Methyl tert-butyl Ether	2.42	73	63359	18.481	ug/l	96
20) Methylene Chloride	2.18	84	11811	6.646	ug/l	88
21) trans-1,2-Dichloroethene	2.31	96	30553	18.158	ug/l	90
22) Diisopropyl ether	2.80	45	103354	18.991	ug/l	99
23) Vinyl Acetate	3.18	43	236406	100.691	ug/l	98
24) 1,1-Dichloroethane	2.87	63	61173	17.909	ug/l	98
25) 2-Butanone	4.34	43	73636	103.973	ug/l	97
26) 2,2-Dichloropropane	3.60	77	41176	19.621	ug/l	99
27) cis-1,2-Dichloroethene	3.47	96	46846	18.861	ug/l	98
28) Bromochloromethane	3.72	49	30248	19.701	ug/l	87
29) Tetrahydrofuran	4.07	42	27859	91.355	ug/l	98
30) Chloroform	3.85	83	88864	19.278	ug/l	97
31) Cyclohexane	3.70	56	61678	18.077	ug/l	91
32) 1,1,1-Trichloroethane	4.09	97	68379	20.231	ug/l	96
36) 1,1-Dichloropropene	4.28	75	67036	21.095	ug/l	94
37) Ethyl Acetate	4.12	43	26053	20.510	ug/l #	73
38) Carbon Tetrachloride	3.99	117	62950	22.659	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	69975	20.319	ug/l	97
40) Benzene	4.63	78	143789	20.334	ug/l	97
41) Methacrylonitrile	4.74	41	16717	24.732	ug/l #	91
42) 1,2-Dichloroethane	4.94	62	55909	22.188	ug/l	99
43) Isopropyl Acetate	6.96	43	32107	20.139	ug/l #	98
44) Trichloroethene	5.50	130	46575	21.471	ug/l	93
45) 1,2-Dichloropropane	6.23	63	37124	20.004	ug/l	100
46) Dibromomethane	6.08	93	25495	20.660	ug/l	91
47) Bromodichloromethane	6.38	83	66079	21.642	ug/l	99
48) Methyl methacrylate	6.72	41	21555	20.134	ug/l	95
49) 1,4-Dioxane	6.71	88	3048	363.703	ug/l #	86
51) 4-Methyl-2-Pentanone	8.25	43	126711	108.110	ug/l	99
52) Toluene	7.62	92	92592	19.884	ug/l	98
53) t-1,3-Dichloropropene	8.27	75	53117	21.909	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	63234	20.866	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	27601	20.873	ug/l	96
56) Ethyl methacrylate	8.62	69	31887	20.727	ug/l	94
57) 1,3-Dichloropropane	8.86	76	51922	20.948	ug/l #	88
58) 2-Chloroethyl Vinyl ether	7.30	63	21558	146.439	ug/l	99
59) 2-Hexanone	9.50	43	101240	123.872	ug/l	100
60) Dibromochloromethane	8.71	129	41777	21.610	ug/l	95
61) 1,2-Dibromoethane	8.98	107	29873	19.734	ug/l	96
64) Tetrachloroethene	8.16	164	38077	18.981	ug/l	97
65) Chlorobenzene	9.79	112	109534	20.192	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.93	131	45022	20.834	ug/l	99
67) Ethyl Benzene	9.90	91	201793	20.360	ug/l	99
68) m/p-Xylenes	10.13	106	144214	40.456	ug/l	96
69) o-Xylene	10.71	106	80036	20.716	ug/l	98
70) Styrene	10.79	104	110105	20.819	ug/l	98
71) Bromoform	10.77	173	20527	21.141	ug/l #	95
73) Isopropylbenzene	11.12	105	241556	21.666	ug/l	98
74) N-amyl acetate	11.37	43	58376	22.143	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	39458	19.866	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	29103	20.392	ug/l	100
77) Bromobenzene	11.49	156	49715	21.114	ug/l	83
78) n-propylbenzene	11.59	91	283901	19.526	ug/l	93
79) 2-Chlorotoluene	11.72	91	158809	20.530	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	186777	20.759	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.86	75	16799	27.078	ug/l	94
82) 4-Chlorotoluene	11.89	91	165648	21.221	ug/l	97
83) tert-Butylbenzene	12.13	119	198870	21.355	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	193211	20.847	ug/l	94
85) sec-Butylbenzene	12.31	105	267157	21.125	ug/l	97
86) p-Isopropyltoluene	12.46	119	220830	21.271	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	92497	18.670	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	92873	20.873	ug/l	98
89) n-Butylbenzene	12.84	91	228810	21.371	ug/l	95
90) Hexachloroethane	12.92	117	50804	20.760	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	92066	20.902	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	6806	19.320	ug/l	63

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QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

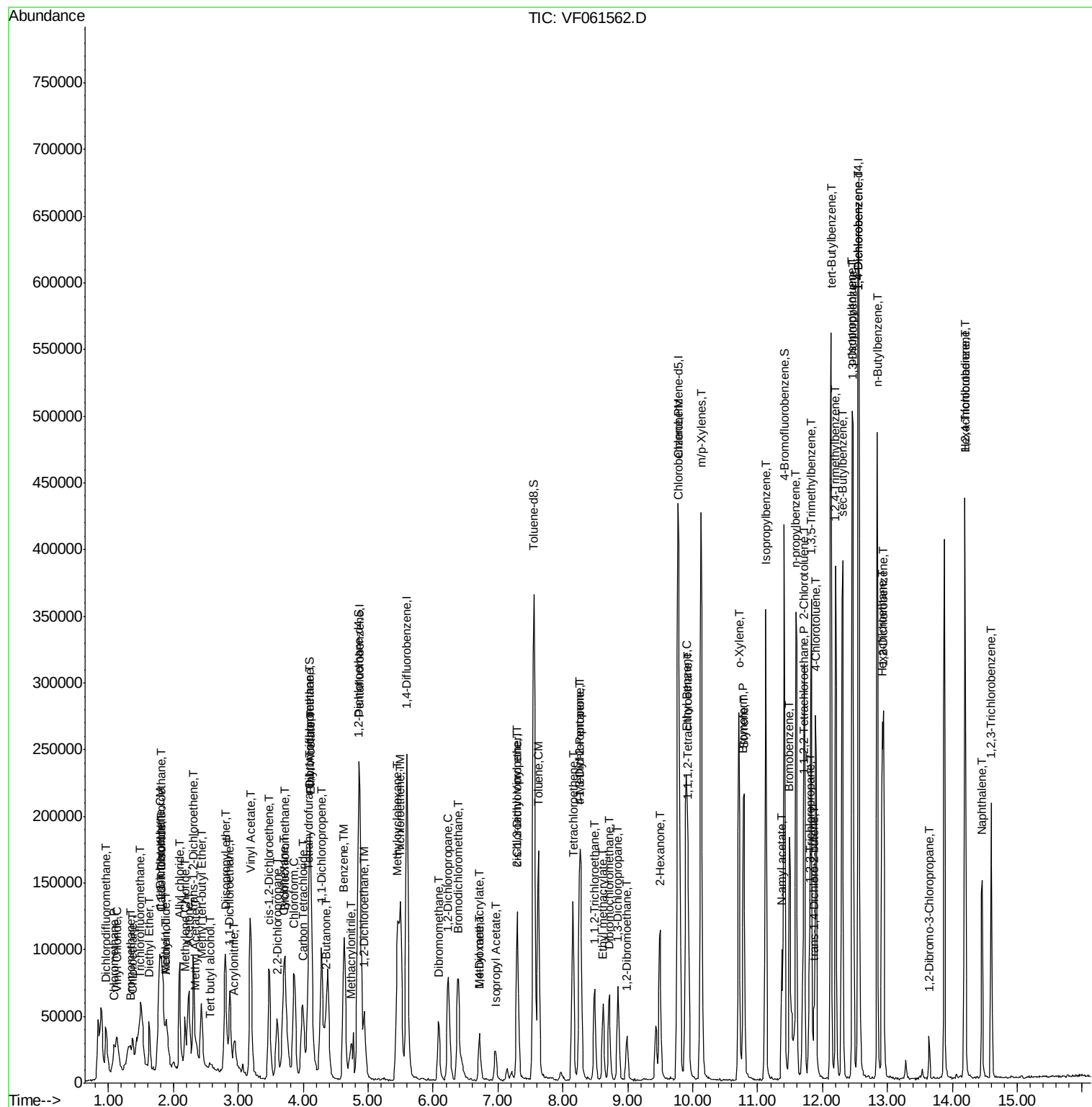
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	61883	20.056	ug/l	97
94) Hexachlorobutadiene	14.19	225	38412	20.062	ug/l	99
95) Naphthalene	14.46	128	110870	18.912	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	55661	19.487	ug/l	98

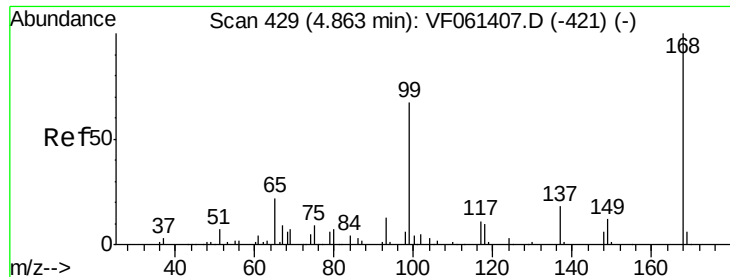
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

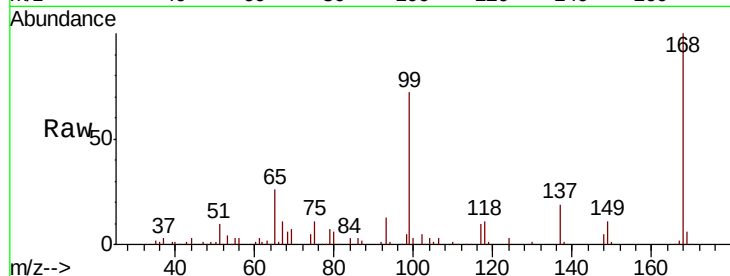
VF0208SBSD01

Tgt Ion:168 Resp: 171947

Ion Ratio Lower Upper

168 100

99 72.1 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

30000

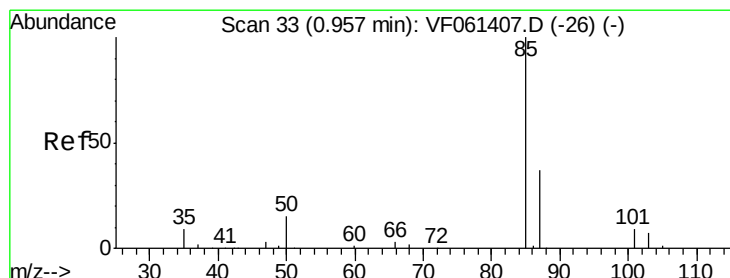
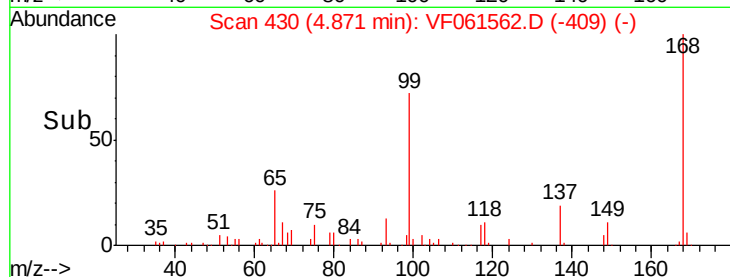
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 17.410 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061562.D

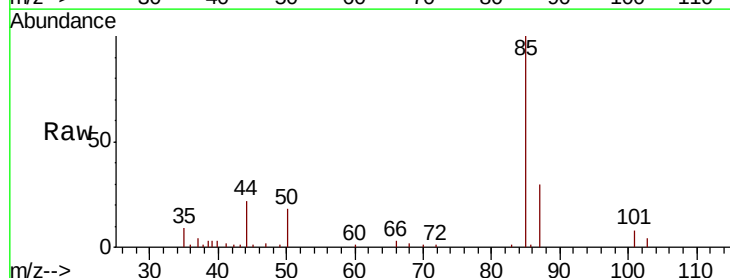
Acq: 8 Feb 2019 17:19

Tgt Ion: 85 Resp: 58820

Ion Ratio Lower Upper

85 100

87 29.8 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

20000

15000

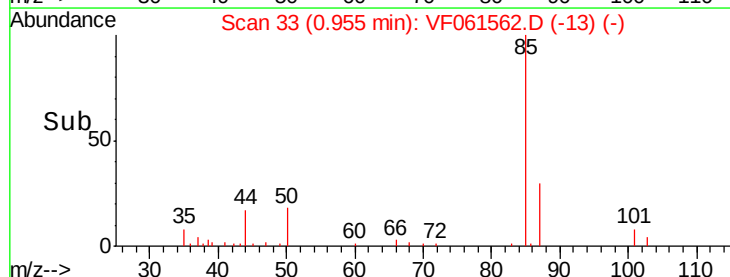
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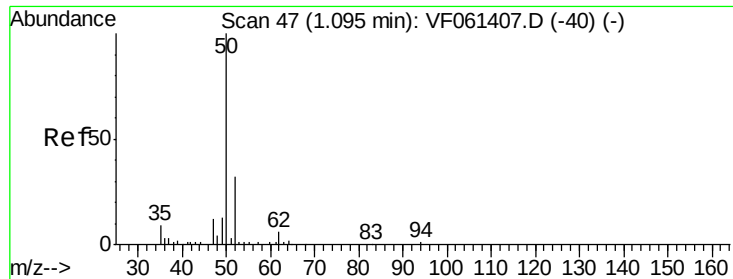
5000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 17.648 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

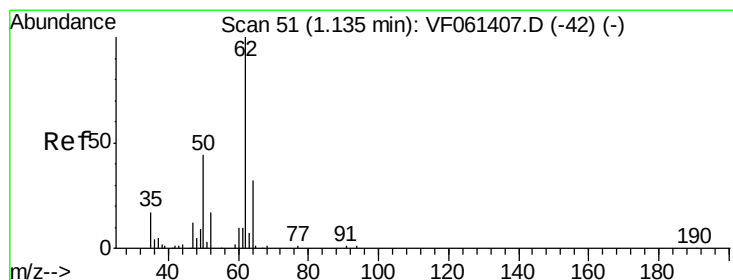
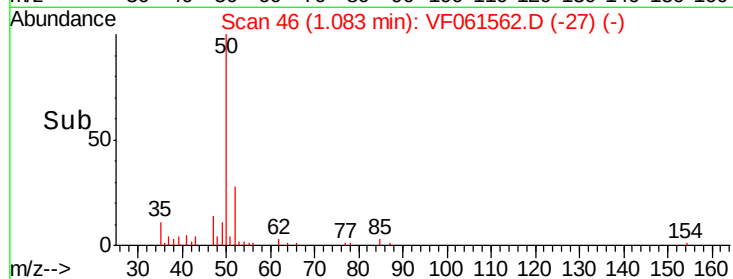
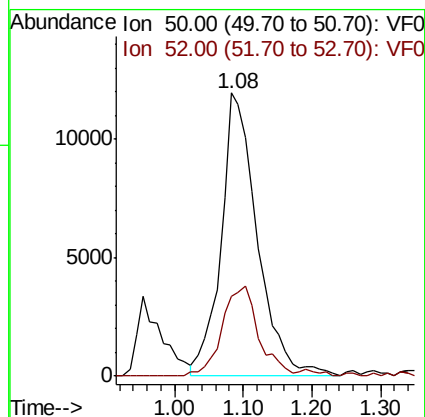
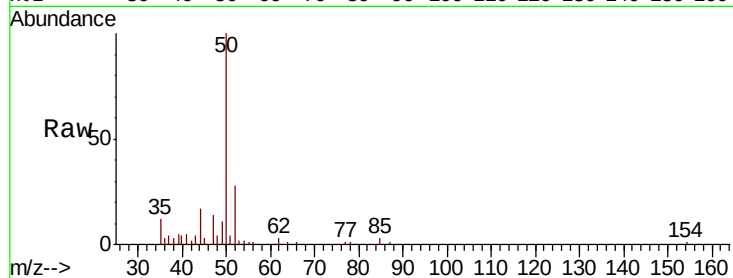
VF0208SBSD01

Tgt Ion: 50 Resp: 43718

Ion Ratio Lower Upper

50 100

52 28.3 24.6 36.8



#4

Vinyl Chloride

Concen: 18.484 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061562.D

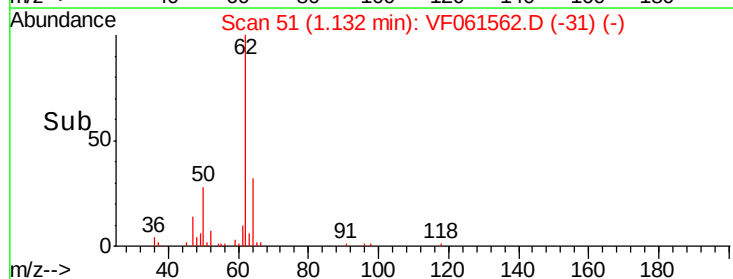
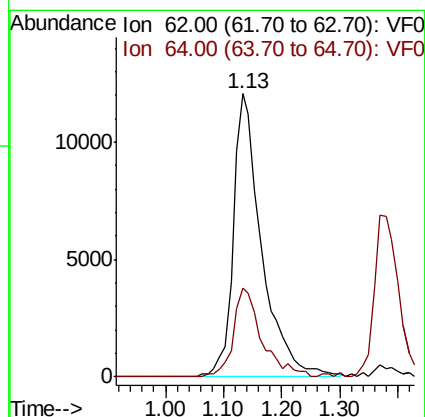
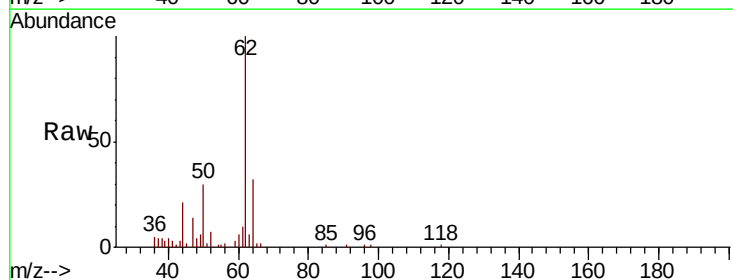
Acq: 8 Feb 2019 17:19

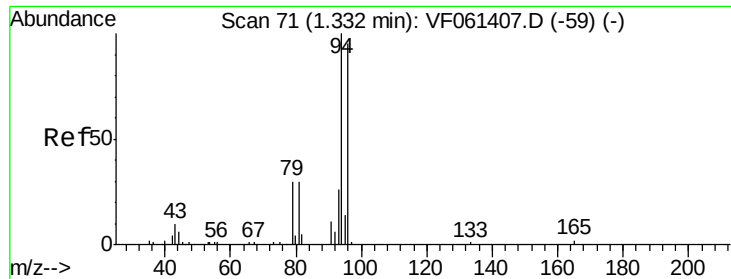
Tgt Ion: 62 Resp: 40733

Ion Ratio Lower Upper

62 100

64 31.5 25.6 38.4





#5

Bromomethane

Concen: 19.712 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

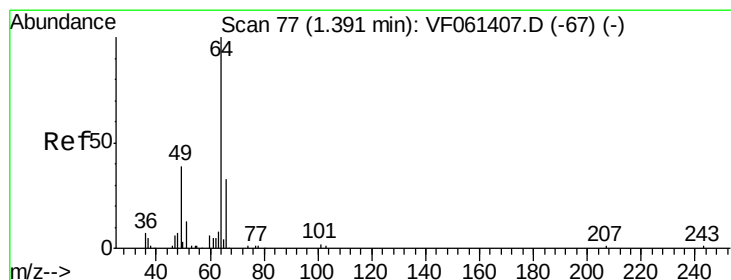
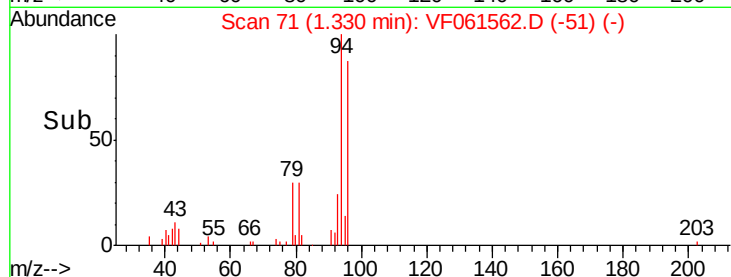
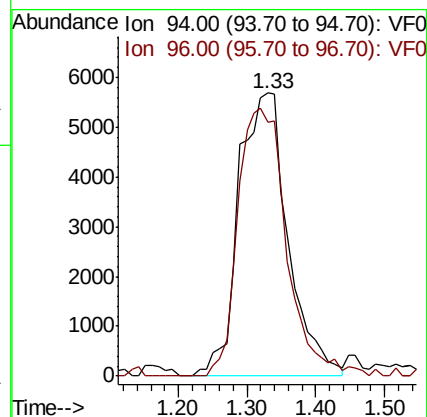
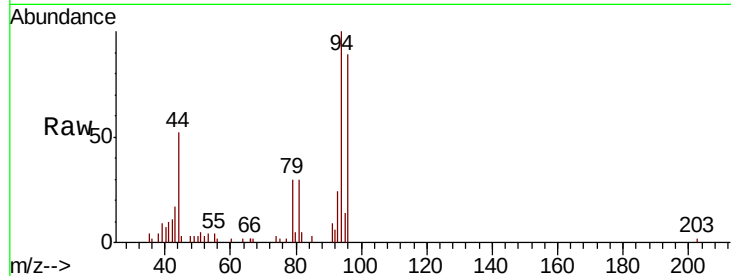
VF0208SBSD01

Tgt Ion: 94 Resp: 28326

Ion Ratio Lower Upper

94 100

96 89.5 76.0 114.0



#6

Chloroethane

Concen: 20.377 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF061562.D

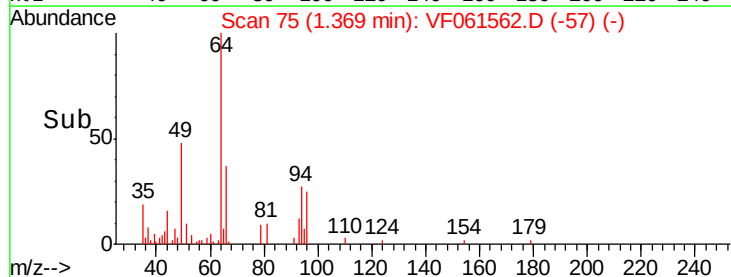
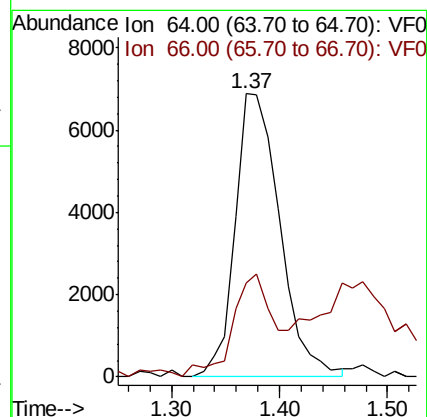
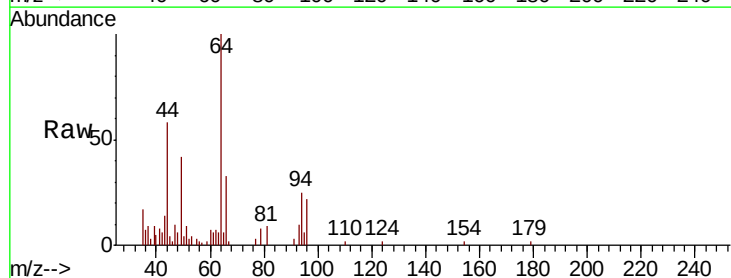
Acq: 8 Feb 2019 17:19

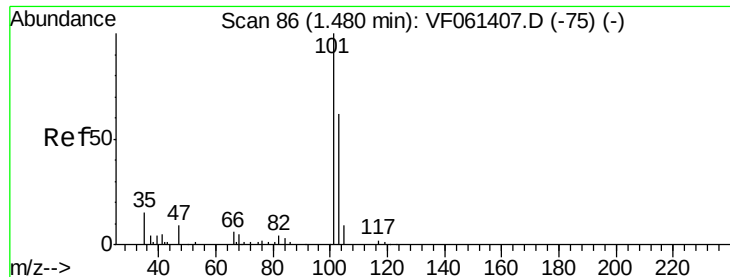
Tgt Ion: 64 Resp: 19897

Ion Ratio Lower Upper

64 100

66 33.0 26.6 40.0





#7

Trichlorofluoromethane

Concen: 19.128 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

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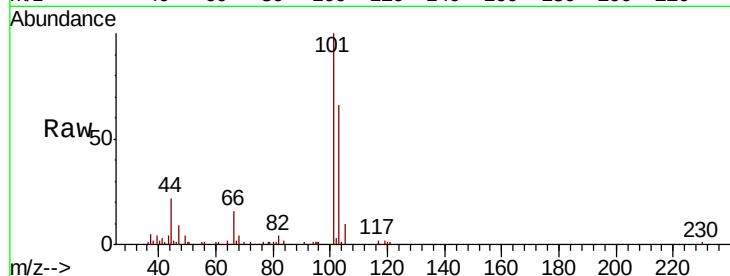
VF0208SBSD01

Tgt Ion:101 Resp: 81942

Ion Ratio Lower Upper

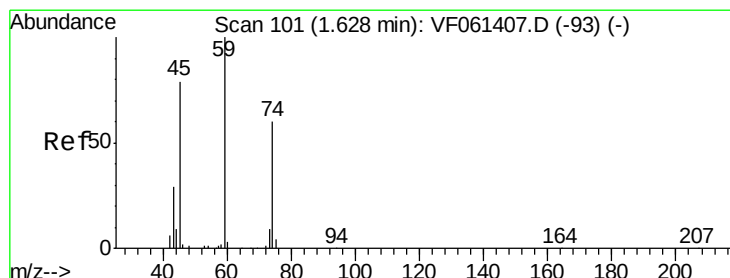
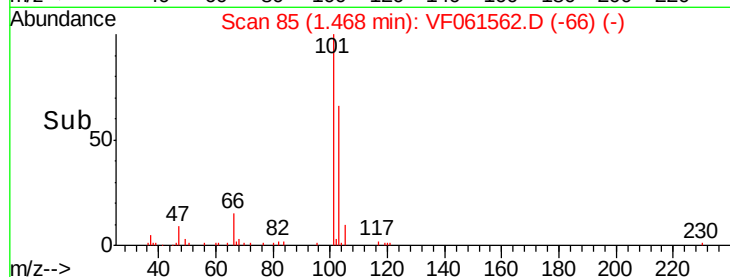
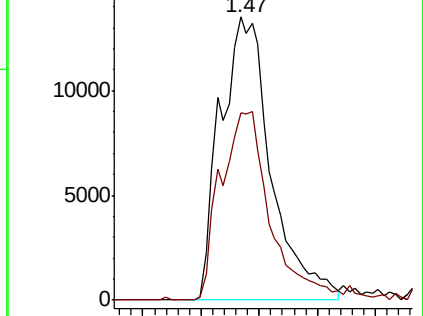
101 100

103 66.3 49.7 74.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 20.411 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061562.D

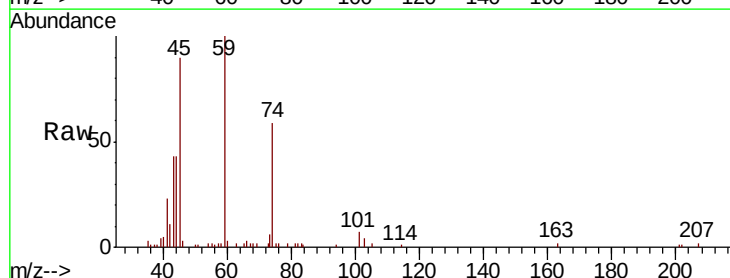
Acq: 8 Feb 2019 17:19

Tgt Ion: 74 Resp: 11204

Ion Ratio Lower Upper

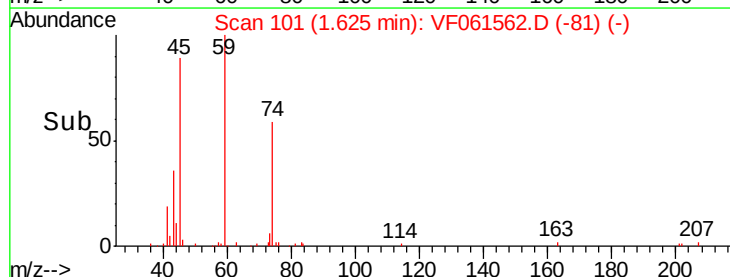
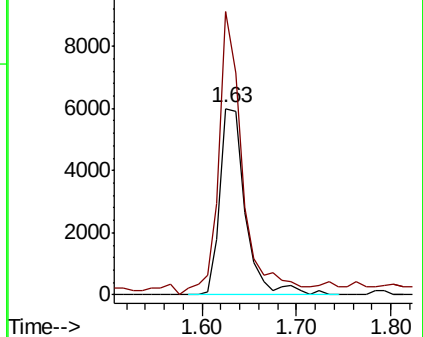
74 100

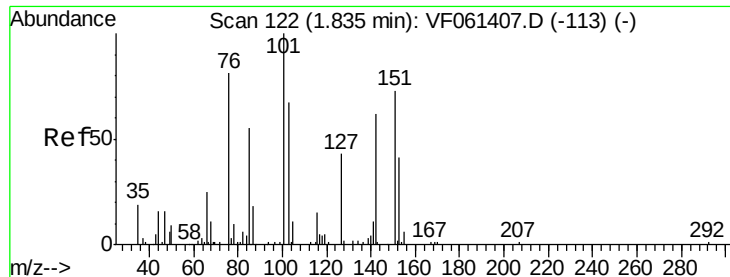
45 152.1 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.139 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

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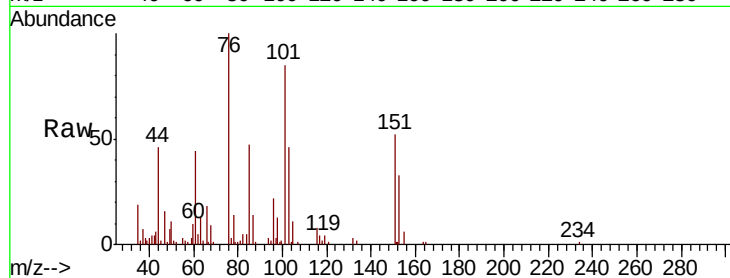
Tgt Ion:101 Resp: 39396

Ion Ratio Lower Upper

101 100

85 55.8 41.9 62.9

151 63.1 55.1 82.7

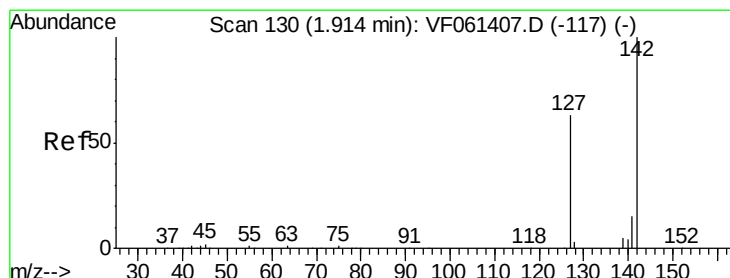
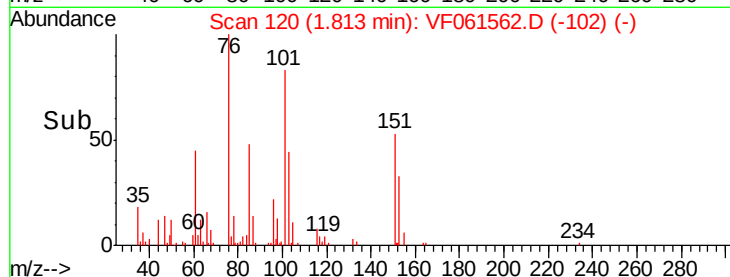
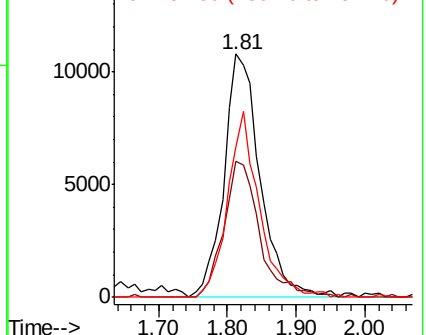


Abundance

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: 18.412 ug/l

RT: 1.89 min Scan# 128

Delta R.T. -0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

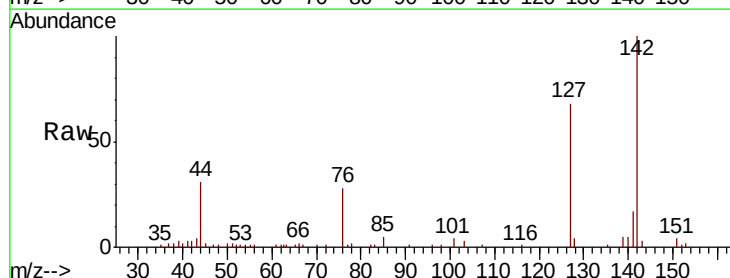
Tgt Ion:142 Resp: 58755

Ion Ratio Lower Upper

142 100

127 67.9 50.7 76.1

141 16.9 11.8 17.6

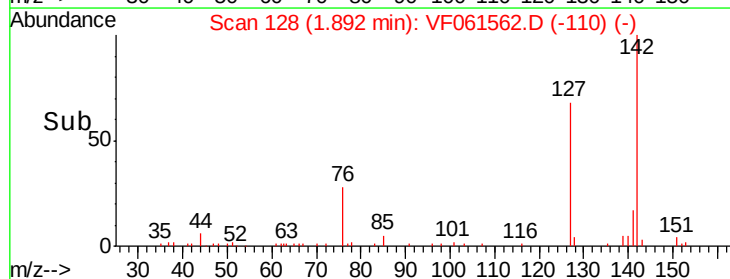
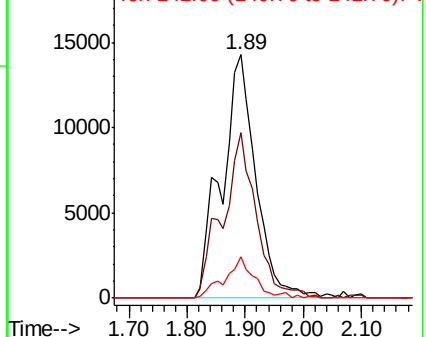


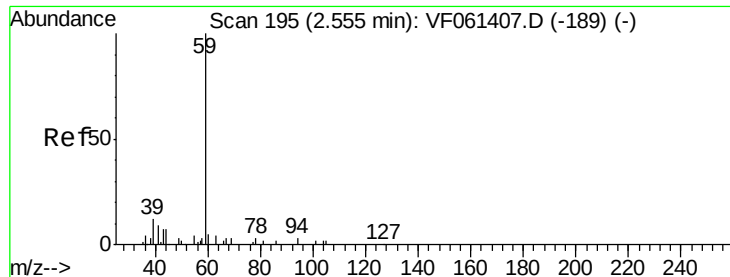
Abundance

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

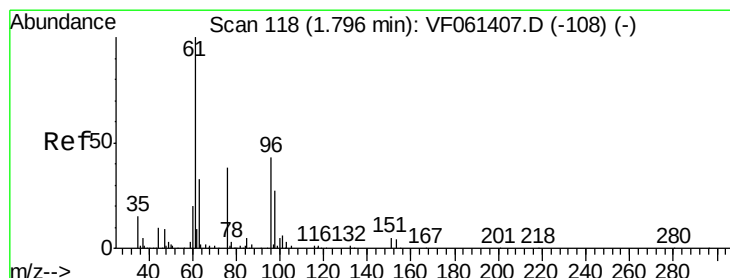
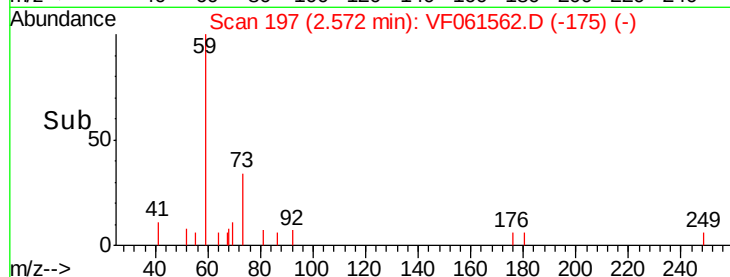
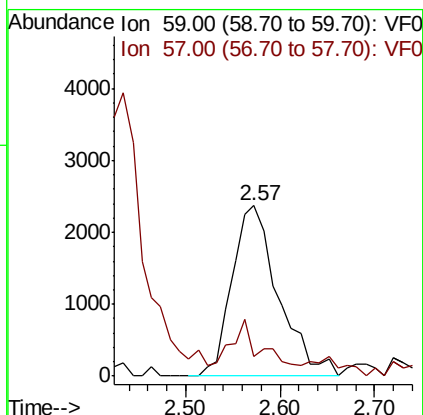
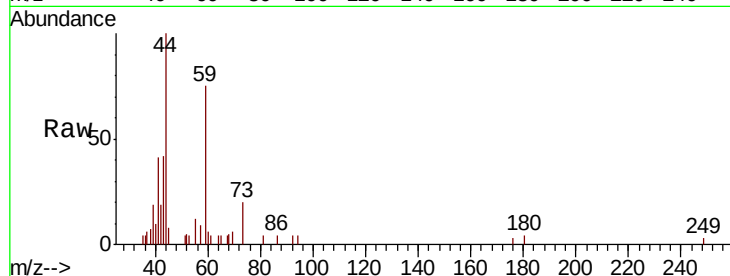




#11
Tert butyl alcohol
Concen: 89.607 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

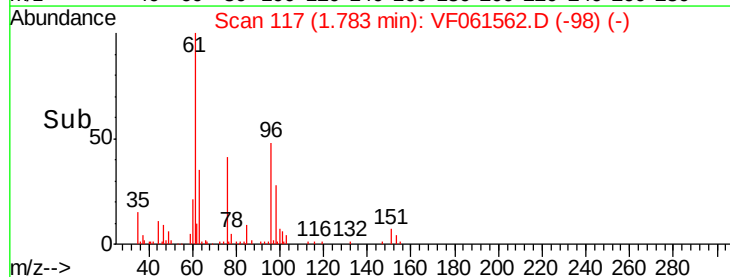
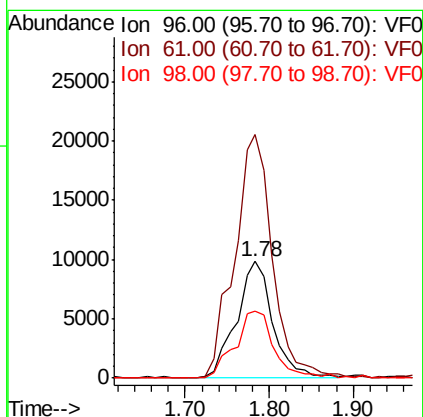
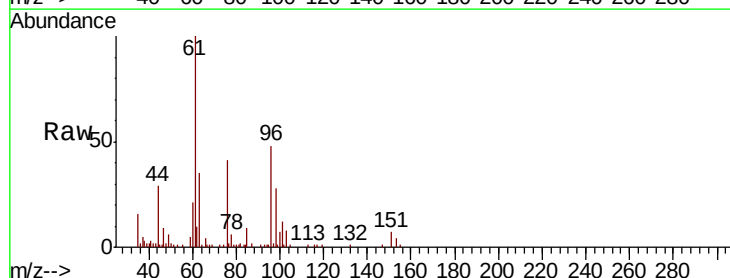
Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

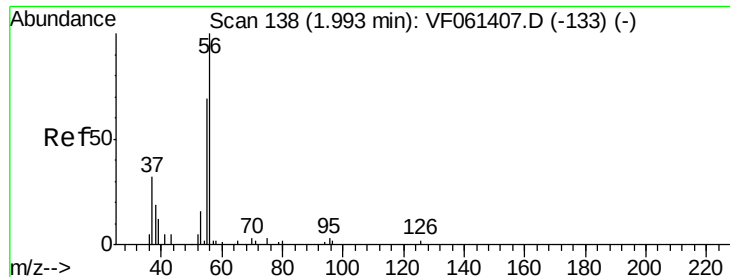
Tgt Ion: 59 Resp: 8052
Ion Ratio Lower Upper
59 100
57 12.0 11.9 17.9



#12
1,1-Dichloroethene
Concen: 19.555 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion: 96 Resp: 29905
Ion Ratio Lower Upper
96 100
61 208.9 186.9 280.3
98 57.8 53.0 79.4

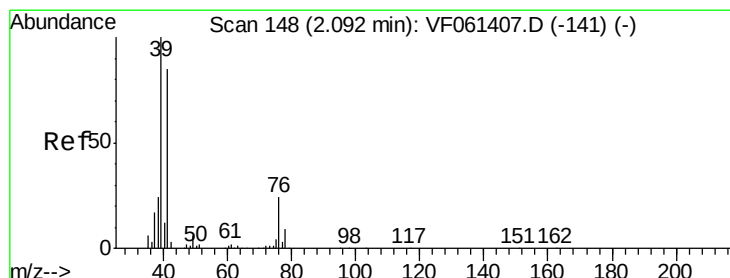
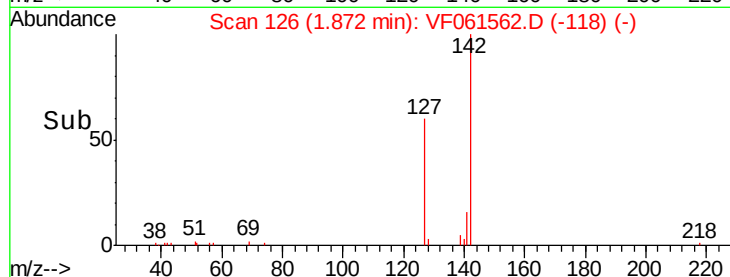
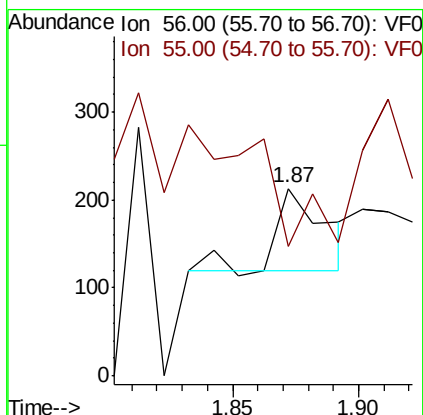
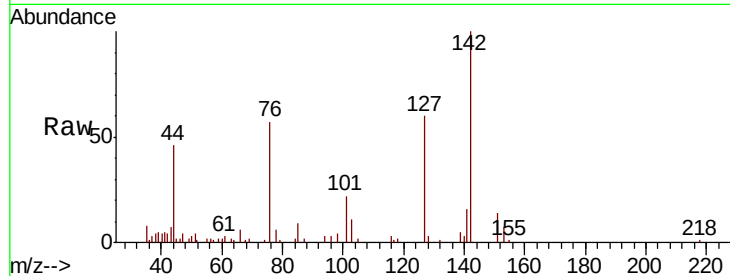




#13
Acrolein
Concen: 11.984 ug/l
RT: 1.87 min Scan# 126
Delta R.T. -0.12 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

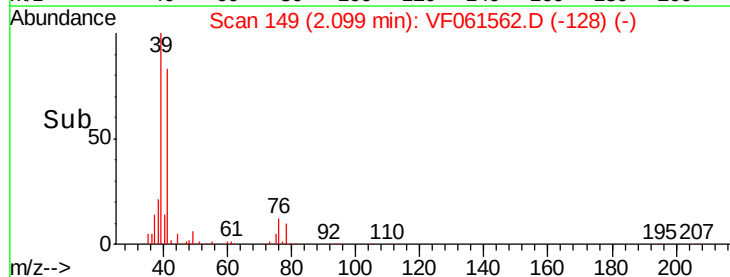
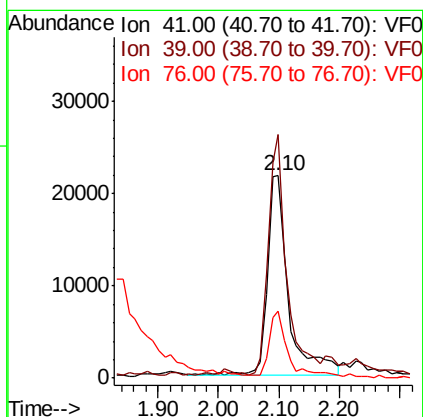
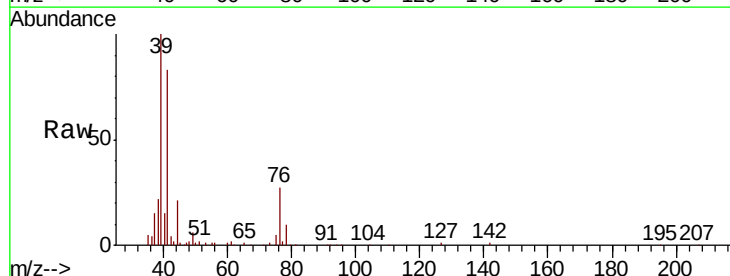
Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

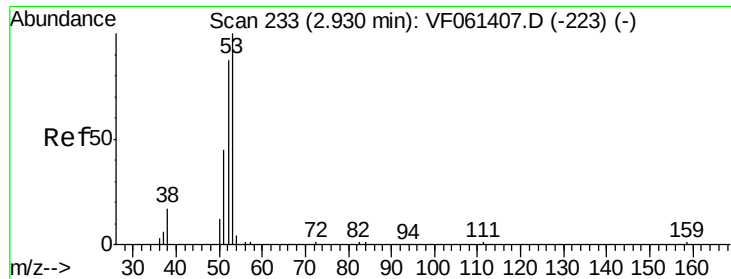
Tgt Ion: 56 Resp: 133
Ion Ratio Lower Upper
56 100
55 69.0 57.5 86.3



#14
Allyl chloride
Concen: 31.721 ug/l
RT: 2.10 min Scan# 149
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion: 41 Resp: 53137
Ion Ratio Lower Upper
41 100
39 120.2 94.6 141.8
76 33.0 25.9 38.9





#15

Acrylonitrile

Concen: 101.797 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

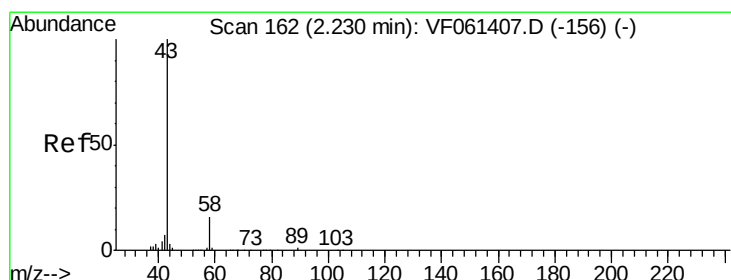
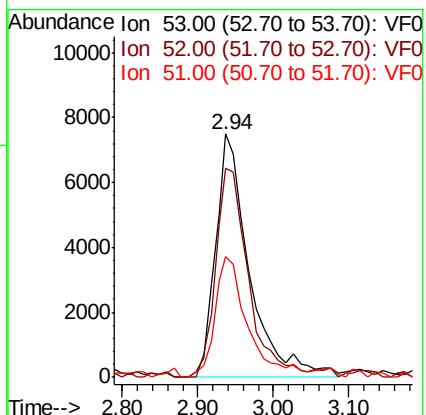
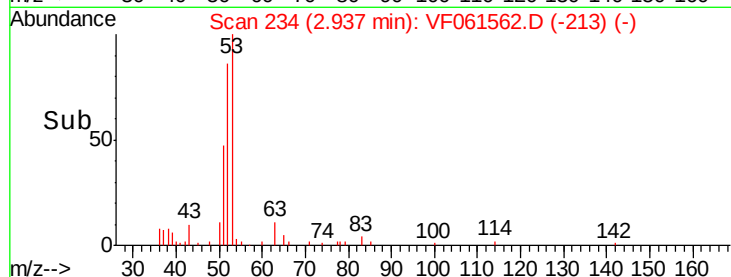
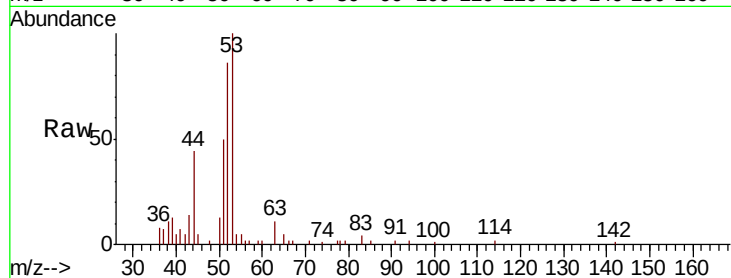
Tgt Ion: 53 Resp: 23431

Ion Ratio Lower Upper

53 100

52 86.0 69.6 104.4

51 49.7 36.8 55.2



#16

Acetone

Concen: 116.307 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061562.D

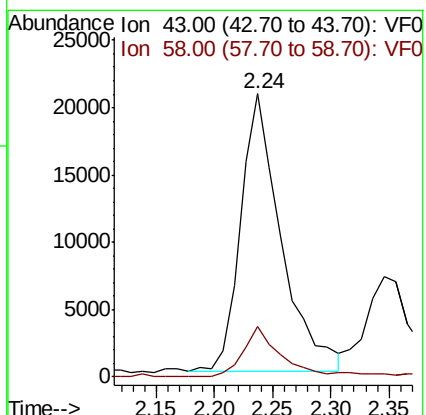
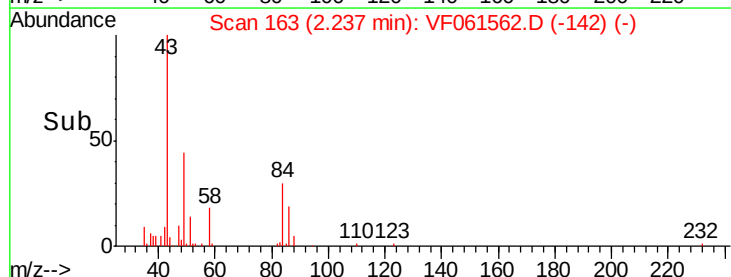
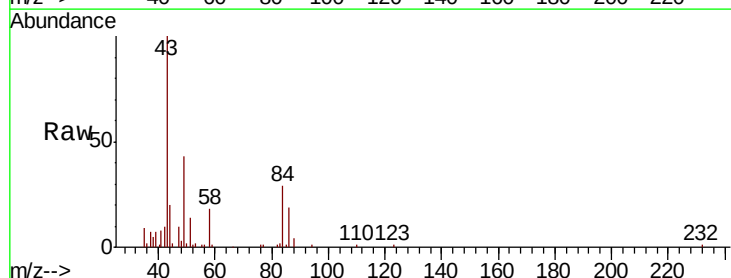
Acq: 8 Feb 2019 17:19

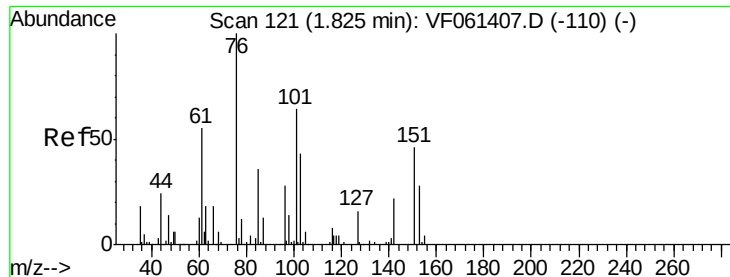
Tgt Ion: 43 Resp: 49533

Ion Ratio Lower Upper

43 100

58 17.8 13.3 19.9





#17

Carbon Disulfide

Concen: 17.485 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

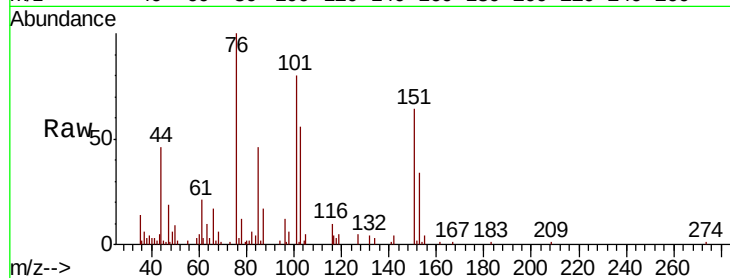
VF0208SBSD01

Tgt Ion: 76 Resp: 83375

Ion Ratio Lower Upper

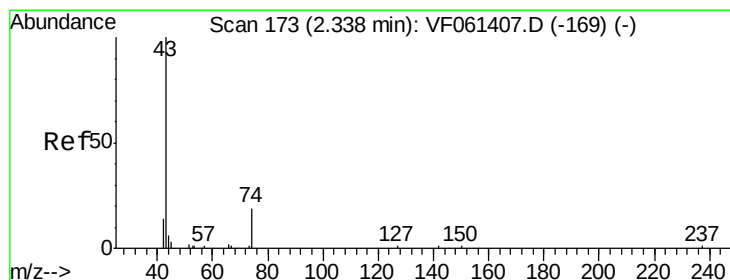
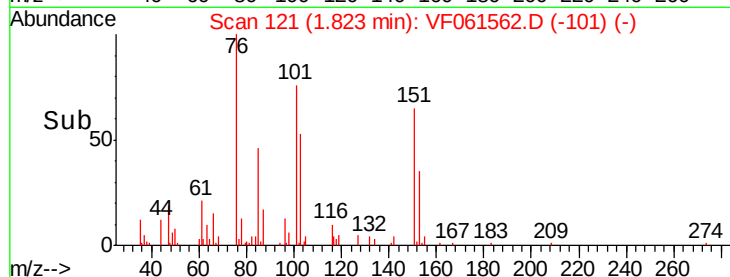
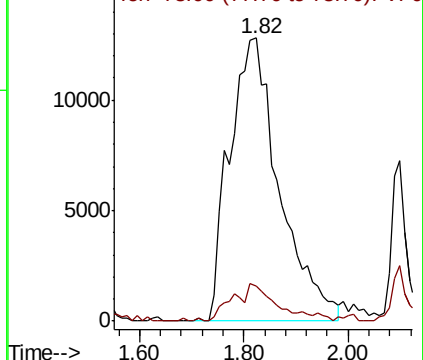
76 100

78 12.4 9.6 14.4



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 19.103 ug/l

RT: 2.35 min Scan# 174

Delta R.T. 0.01 min

Lab File: VF061562.D

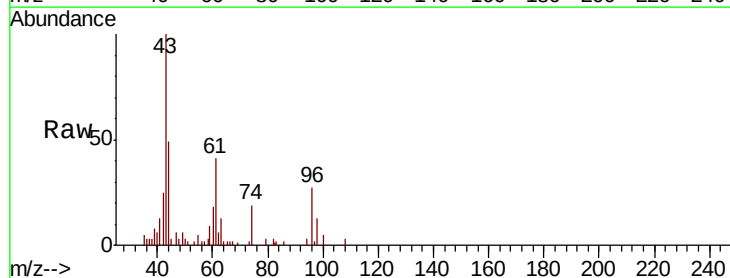
Acq: 8 Feb 2019 17:19

Tgt Ion: 43 Resp: 16134

Ion Ratio Lower Upper

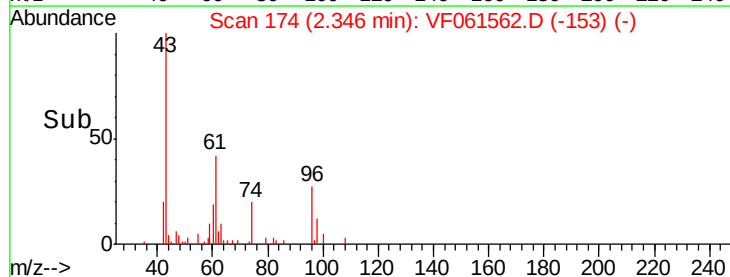
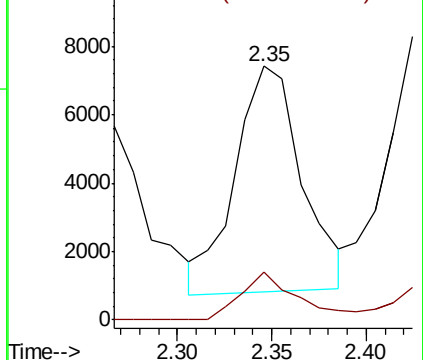
43 100

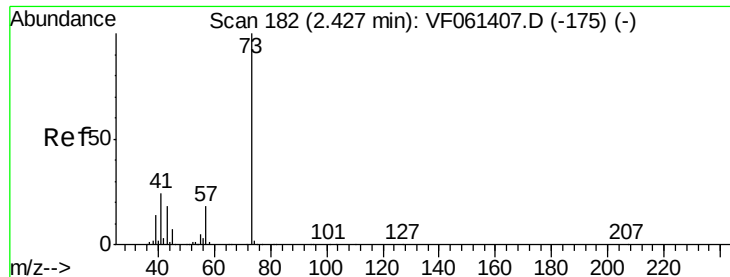
74 18.8 13.4 20.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#19

Methyl tert-butyl Ether

Concen: 18.481 ug/l

RT: 2.42 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

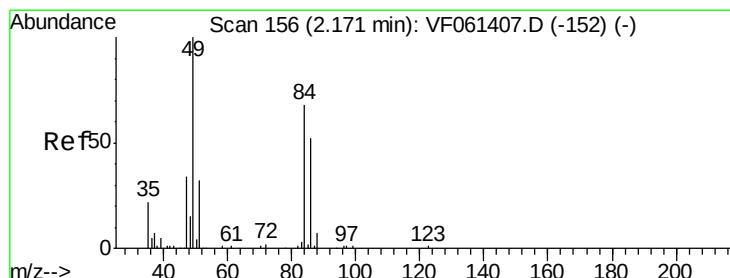
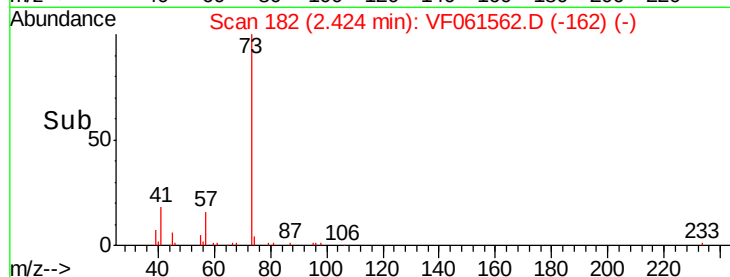
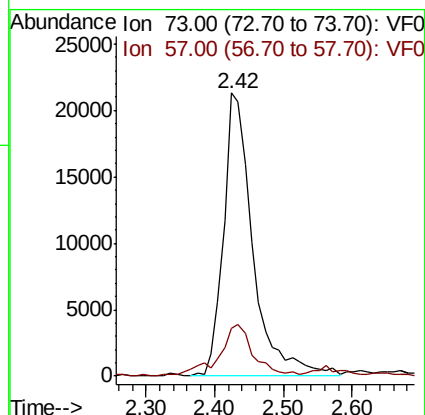
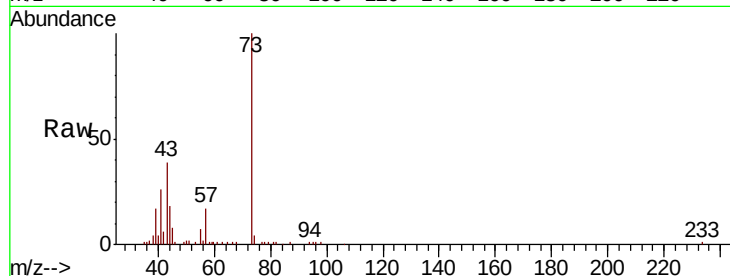
VF0208SBSD01

Tgt Ion: 73 Resp: 63359

Ion Ratio Lower Upper

73 100

57 16.9 14.8 22.2



#20

Methylene Chloride

Concen: 6.646 ug/l

RT: 2.18 min Scan# 157

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion: 84 Resp: 11811

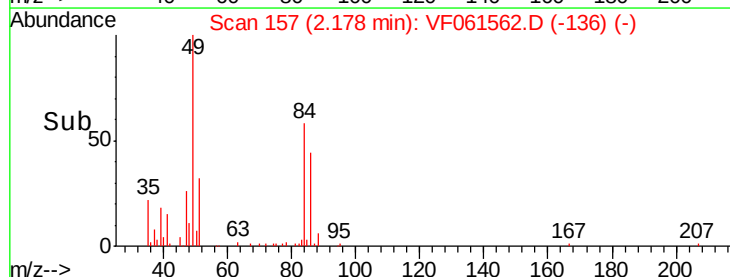
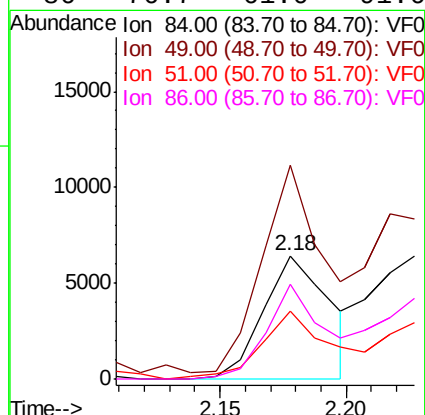
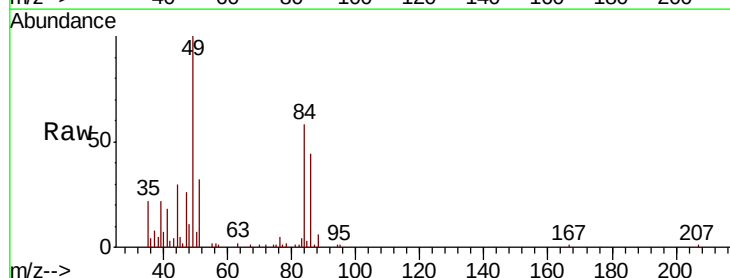
Ion Ratio Lower Upper

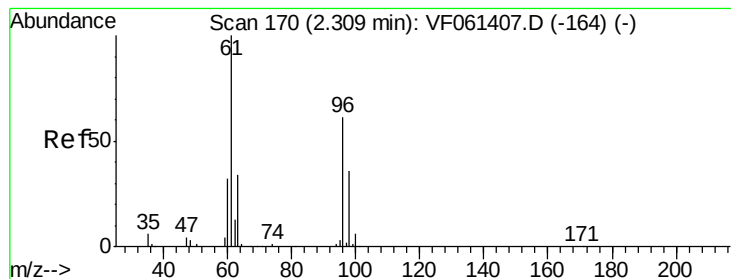
84 100

49 173.6 120.0 180.0

51 55.4 38.6 58.0

86 76.7 61.0 91.6





#21

trans-1,2-Dichloroethene

Concen: 18.158 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

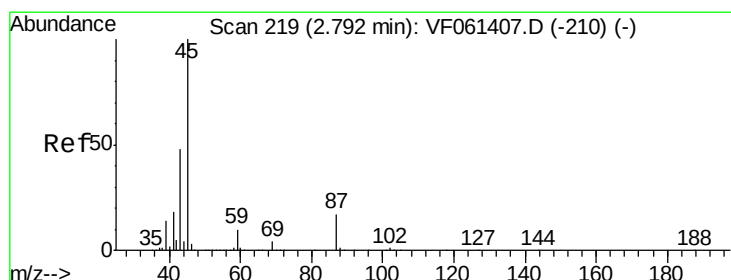
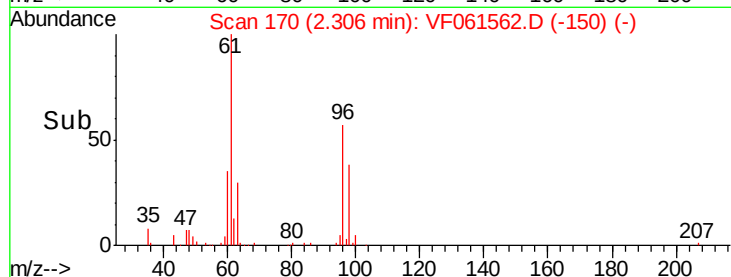
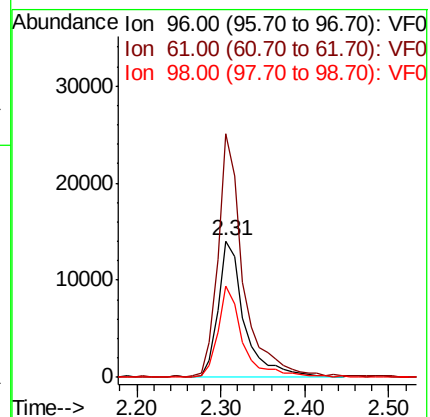
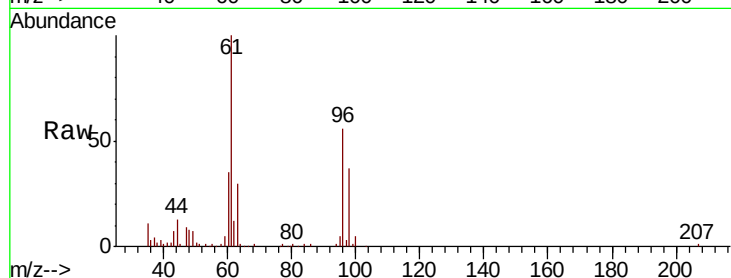
Tgt Ion: 96 Resp: 30553

Ion Ratio Lower Upper

96 100

61 178.5 131.8 197.8

98 66.5 47.4 71.0



#22

Diisopropyl ether

Concen: 18.991 ug/l

RT: 2.80 min Scan# 220

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion: 45 Resp: 103354

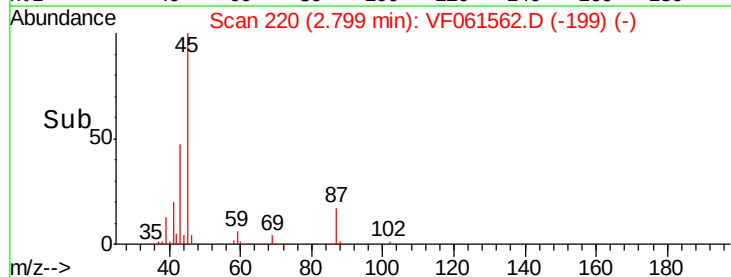
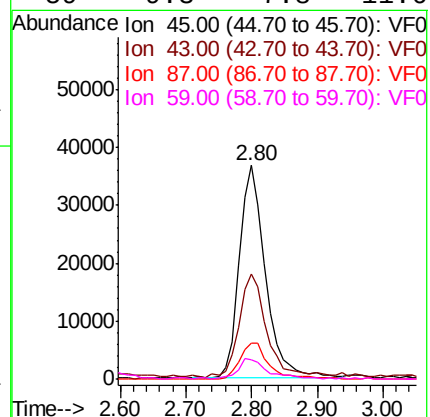
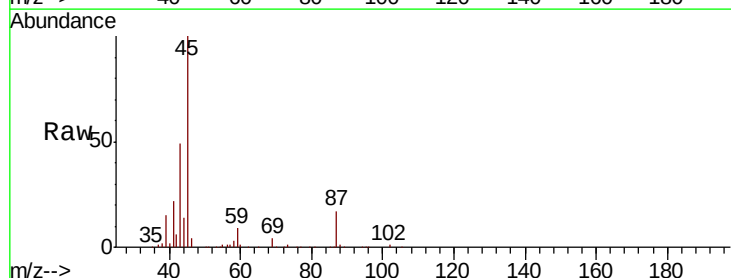
Ion Ratio Lower Upper

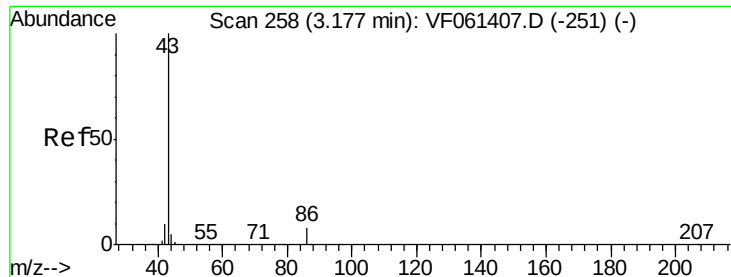
45 100

43 49.2 39.0 58.6

87 17.1 13.9 20.9

59 9.3 7.8 11.6





#23

Vinyl Acetate

Concen: 100.691 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

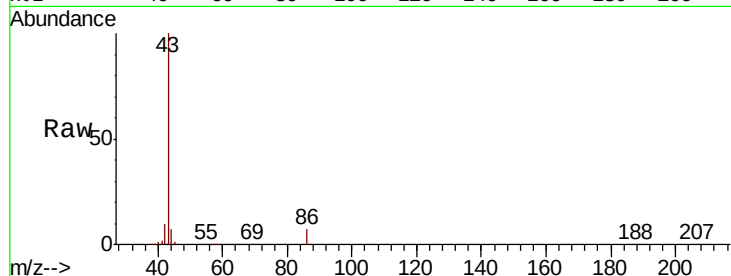
VF0208SBSD01

Tgt Ion: 43 Resp: 236406

Ion Ratio Lower Upper

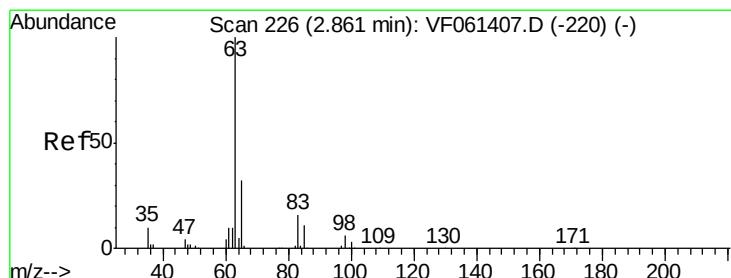
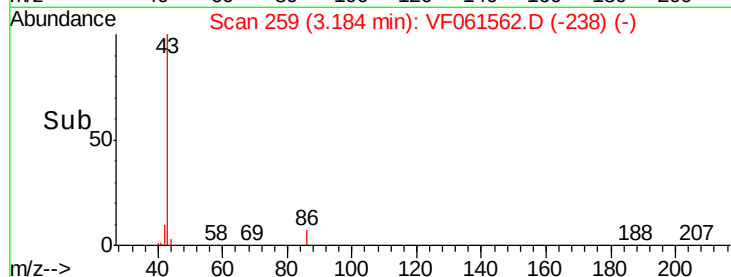
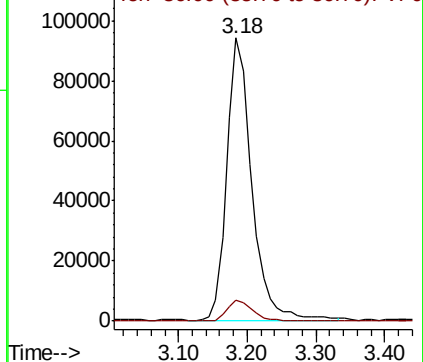
43 100

86 7.2 6.2 9.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 17.909 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

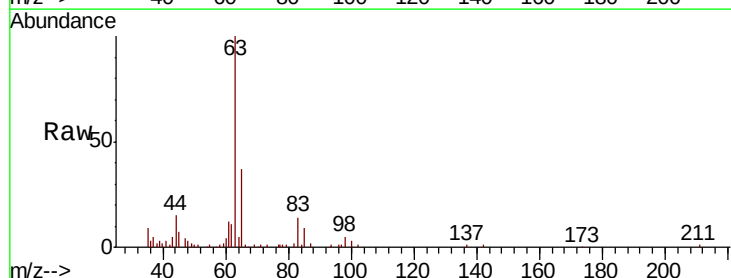
Tgt Ion: 63 Resp: 61173

Ion Ratio Lower Upper

63 100

98 4.9 2.9 8.8

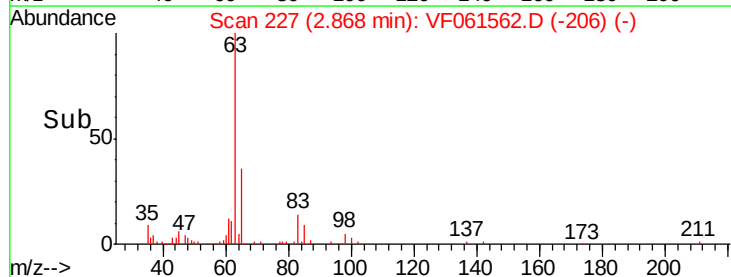
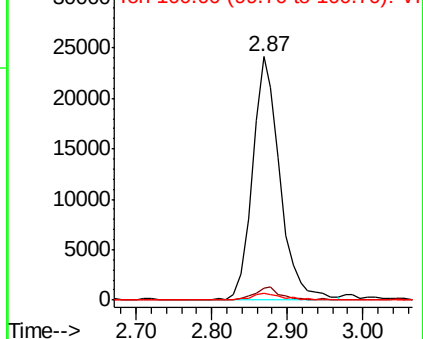
100 3.0 1.6 4.8

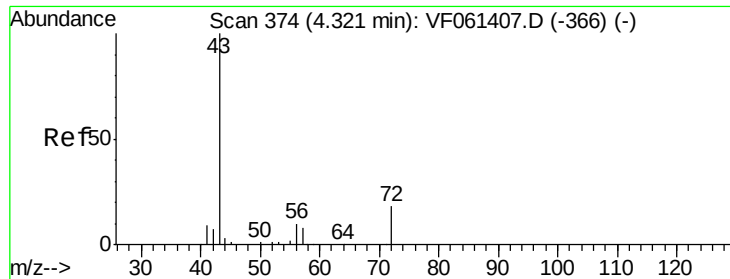


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 103.973 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

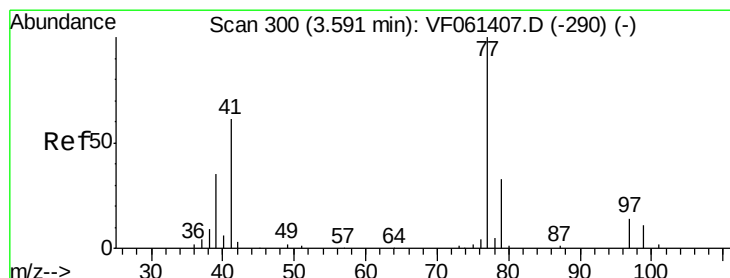
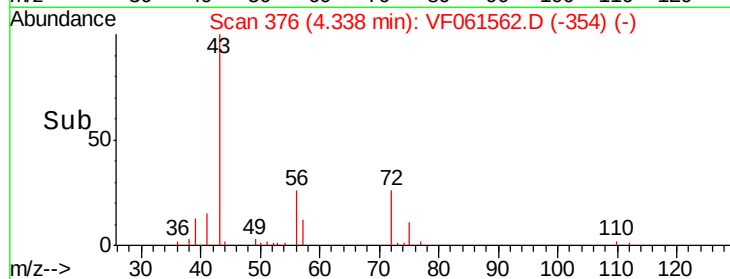
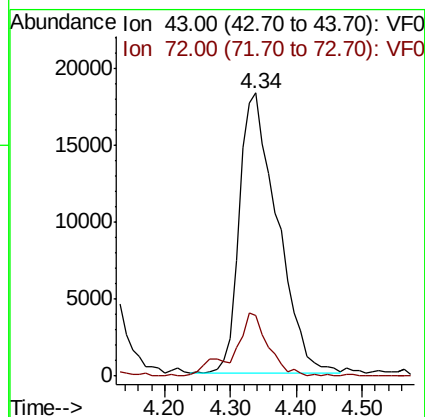
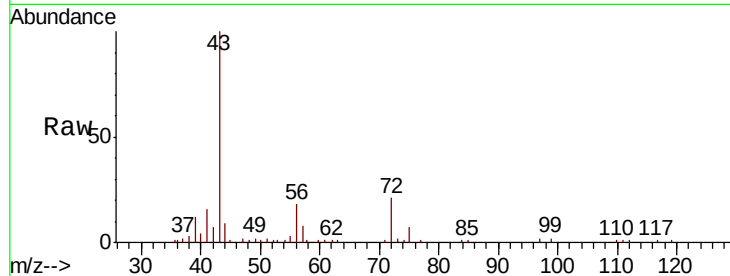
VF0208SBSD01

Tgt Ion: 43 Resp: 73636

Ion Ratio Lower Upper

43 100

72 21.3 15.8 23.6



#26

2,2-Dichloropropane

Concen: 19.621 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061562.D

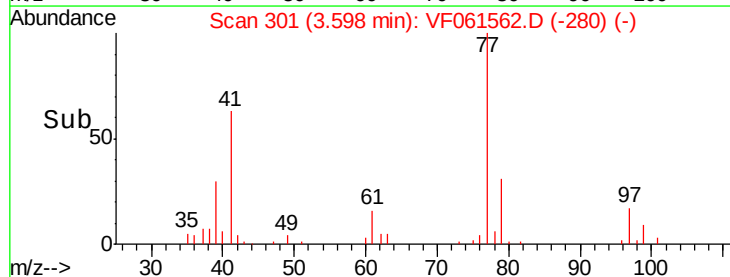
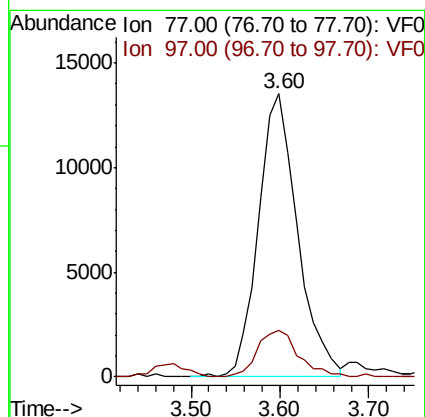
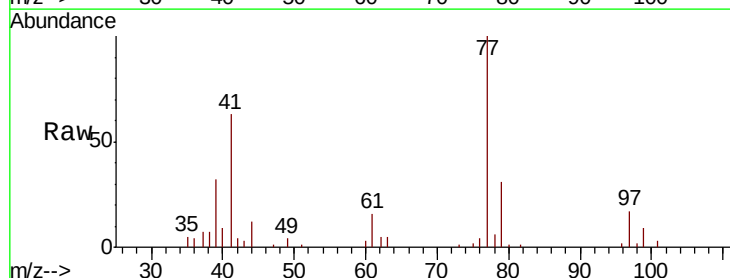
Acq: 8 Feb 2019 17:19

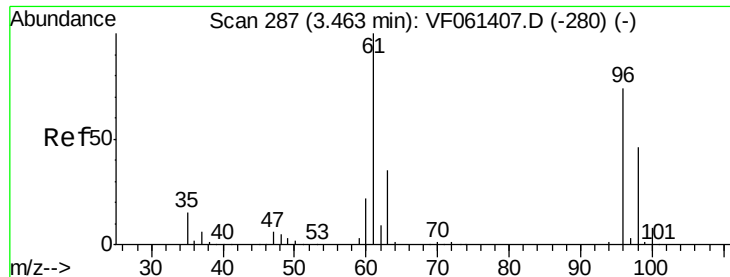
Tgt Ion: 77 Resp: 41176

Ion Ratio Lower Upper

77 100

97 16.5 8.5 25.5



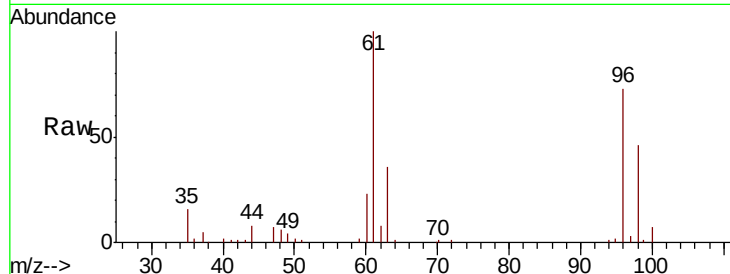


#27

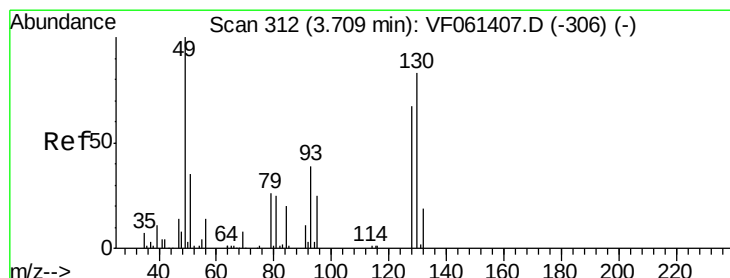
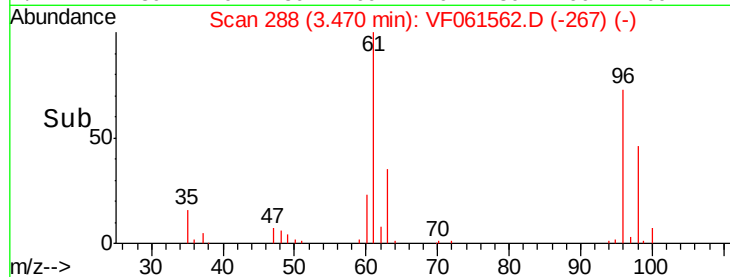
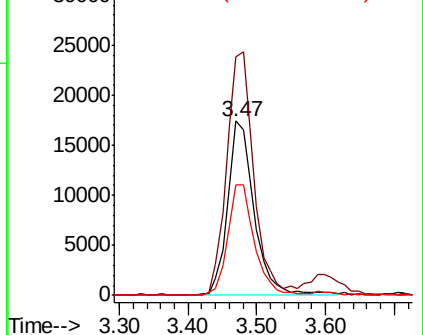
cis-1,2-Dichloroethene
Concen: 18.861 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tgt Ion: 96 Resp: 46846
Ion Ratio Lower Upper
96 100
61 136.9 0.0 270.2
98 63.4 0.0 124.0



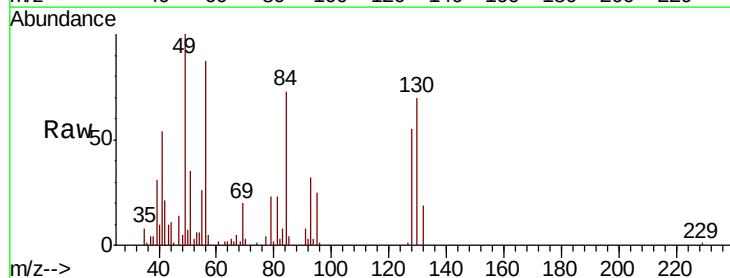
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



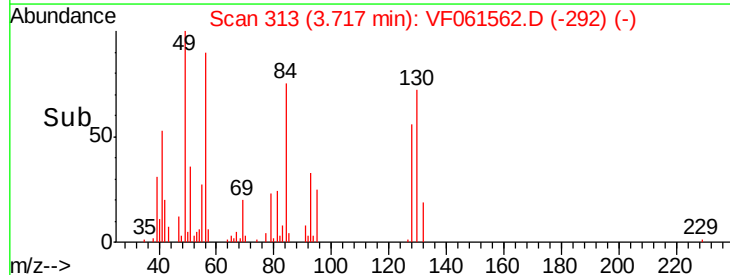
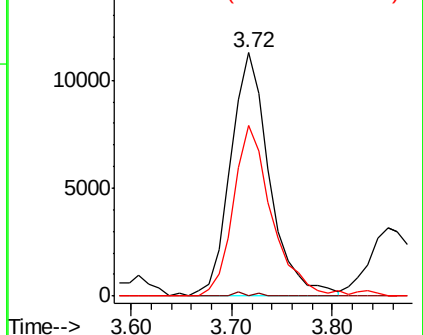
#28

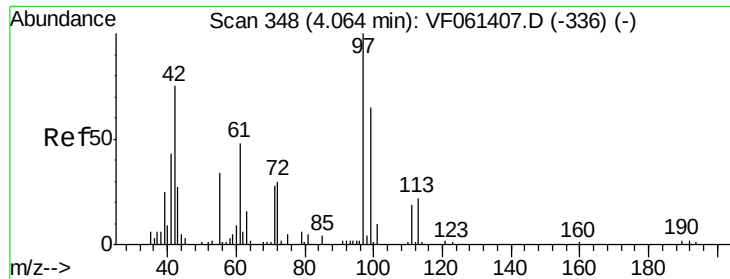
Bromochloromethane
Concen: 19.701 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion: 49 Resp: 30248
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 69.9 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: 91.355 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

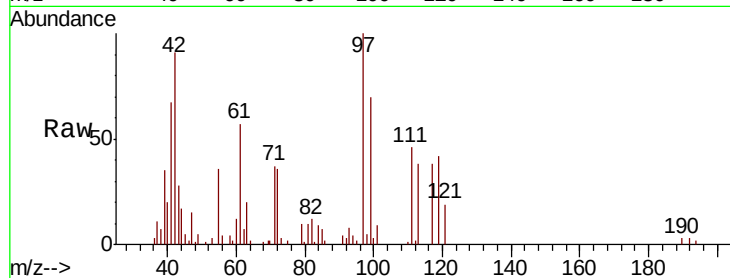
Tgt Ion: 42 Resp: 27859

Ion Ratio Lower Upper

42 100

72 36.7 28.9 43.3

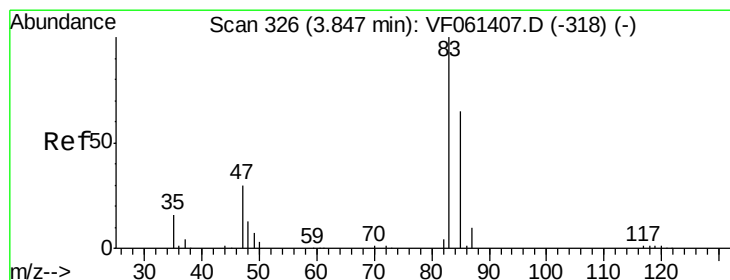
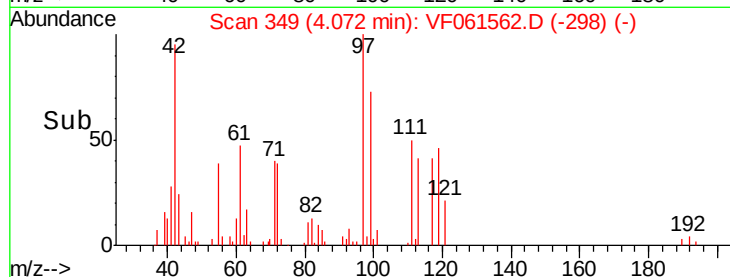
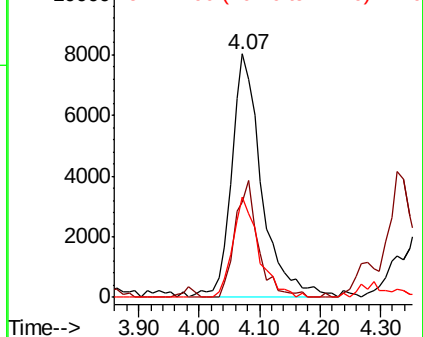
71 35.2 29.6 44.4



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 19.278 ug/l

RT: 3.85 min Scan# 327

Delta R.T. 0.01 min

Lab File: VF061562.D

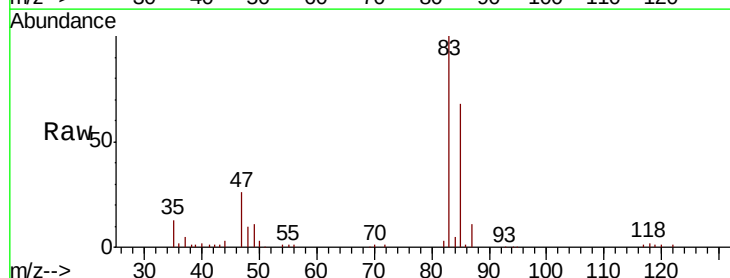
Acq: 8 Feb 2019 17:19

Tgt Ion: 83 Resp: 88864

Ion Ratio Lower Upper

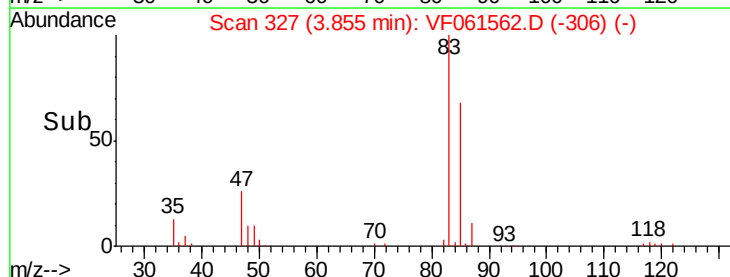
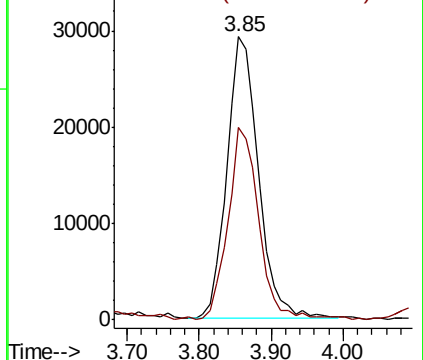
83 100

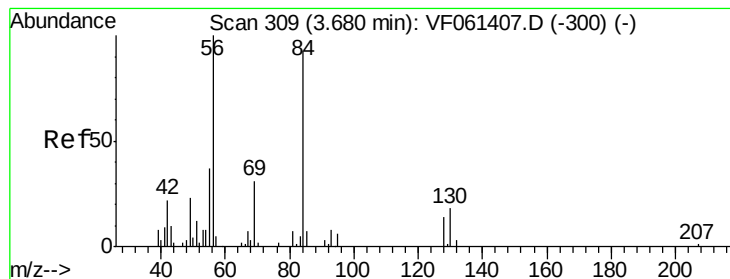
85 68.0 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 18.077 ug/l

RT: 3.70 min Scan# 311

Delta R.T. 0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

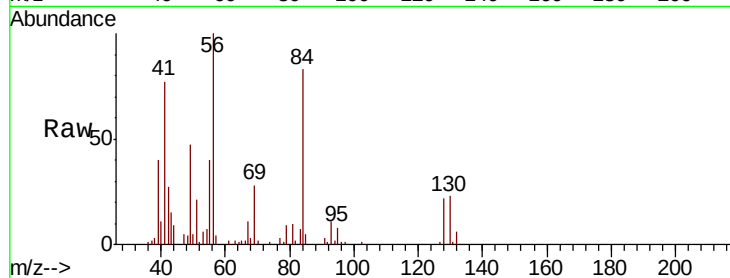
Tgt Ion: 56 Resp: 61678

Ion Ratio Lower Upper

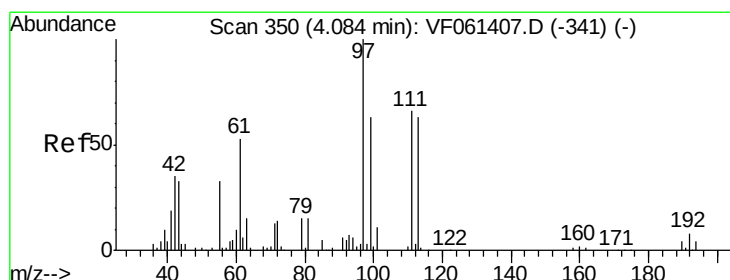
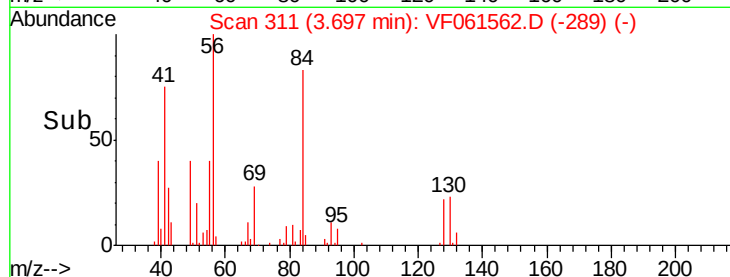
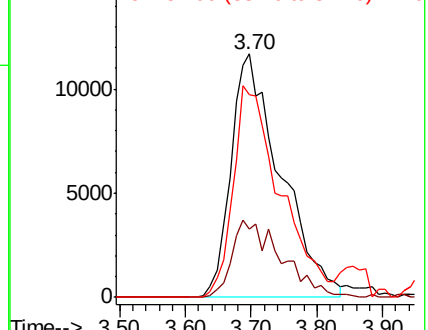
56 100

69 28.3 24.6 36.8

84 83.2 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: 20.231 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

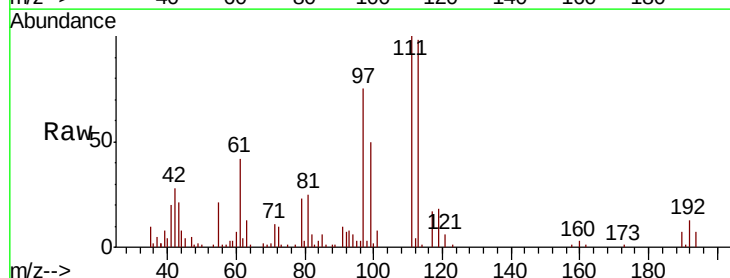
Tgt Ion: 97 Resp: 68379

Ion Ratio Lower Upper

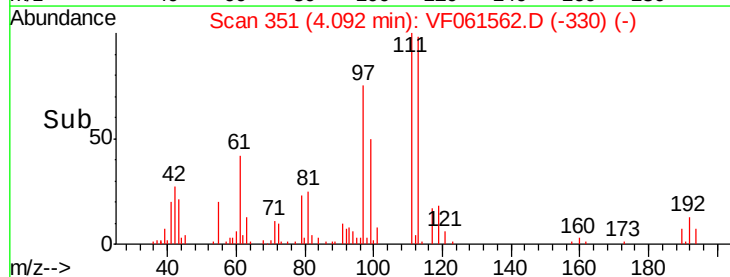
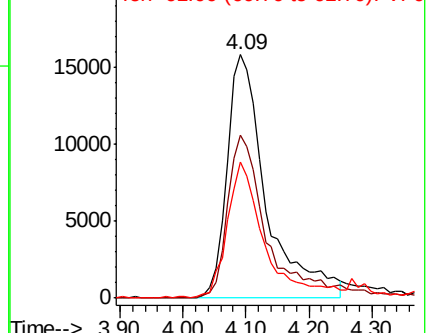
97 100

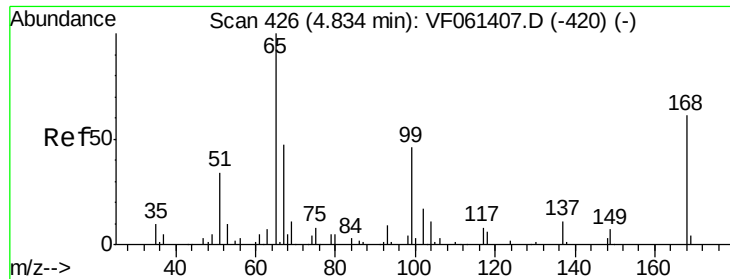
99 66.9 50.1 75.1

61 55.8 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

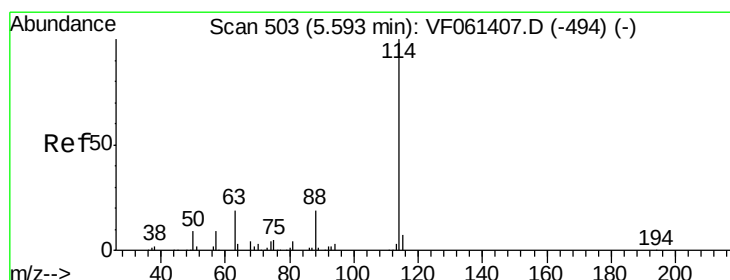
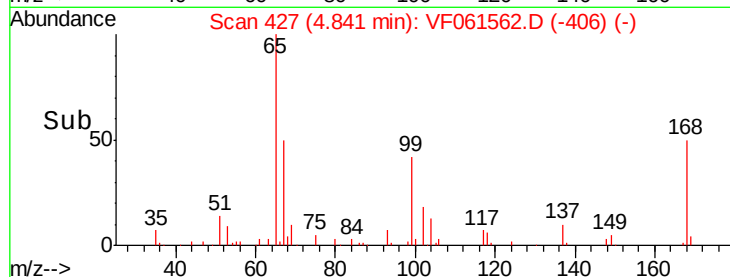
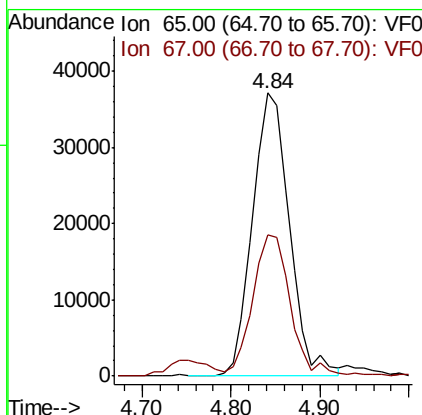
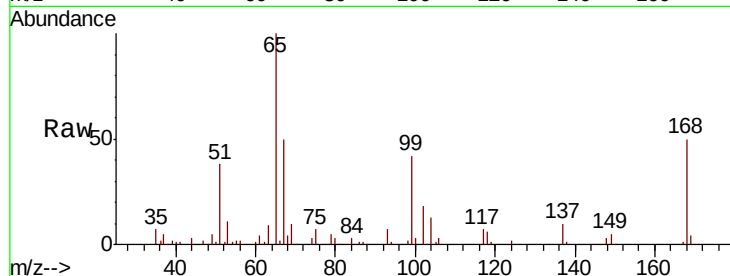




#33
 1,2-Dichloroethane-d4
 Concen: 50.161 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

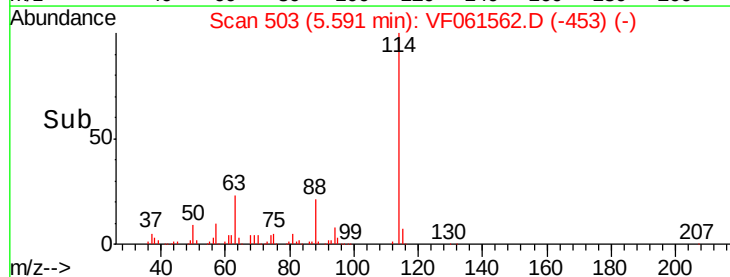
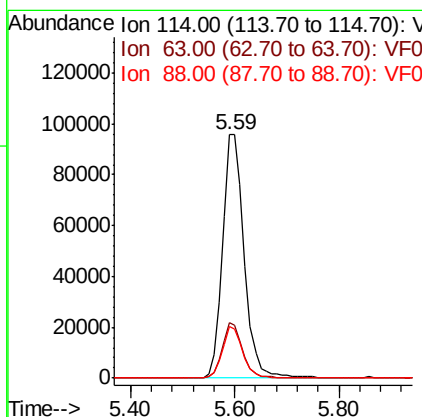
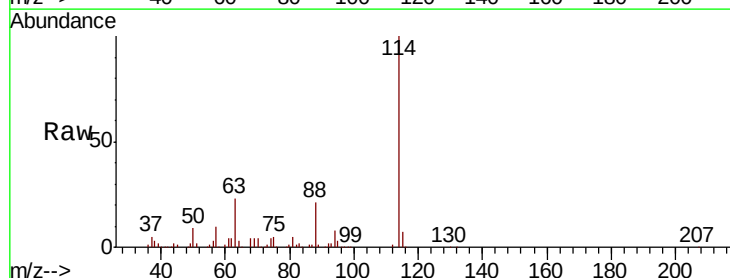
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

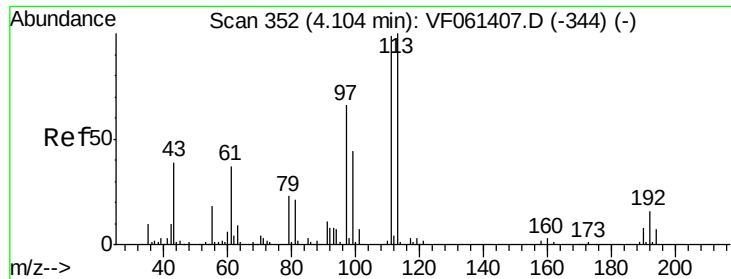
Tgt Ion: 65 Resp: 106487
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion: 114 Resp: 274080
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 39.0
 88 21.0 0.0 37.4

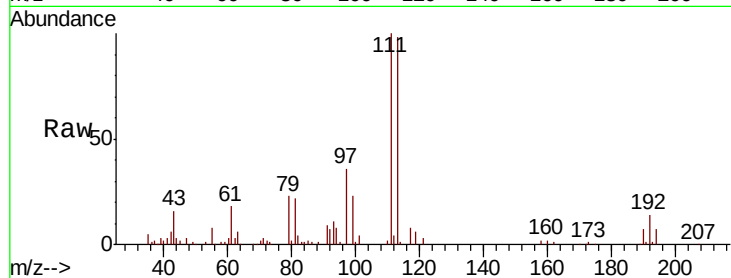




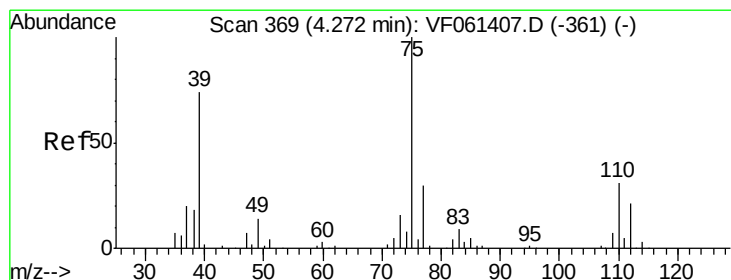
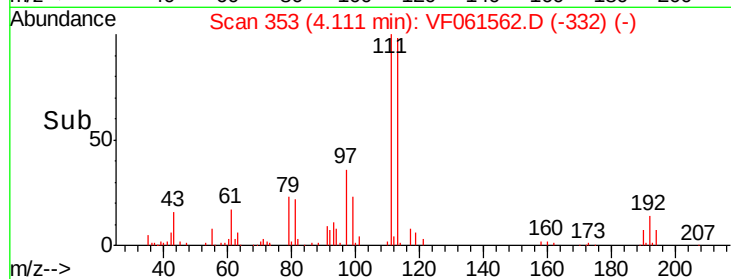
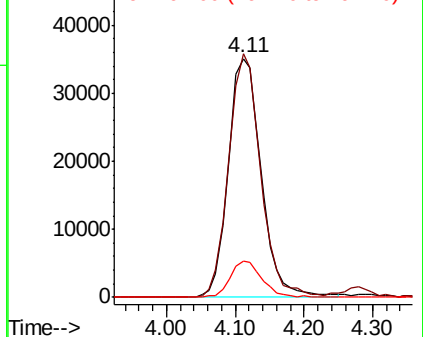
#35
 Dibromofluoromethane
 Concen: 53.906 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tgt Ion: 113 Resp: 116583
 Ion Ratio Lower Upper
 113 100
 111 101.9 79.4 119.0
 192 15.0 12.4 18.6

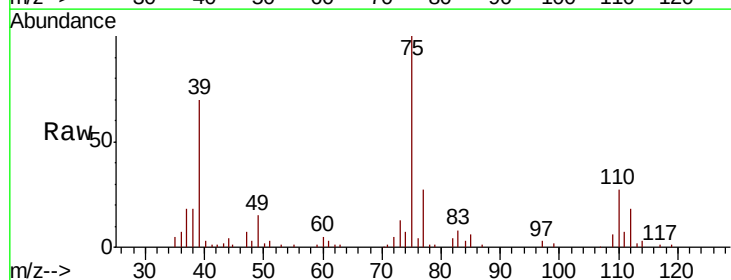


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

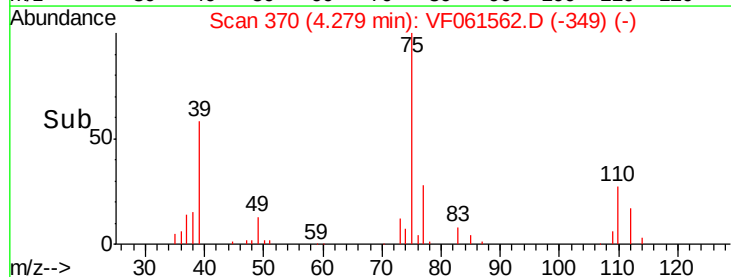
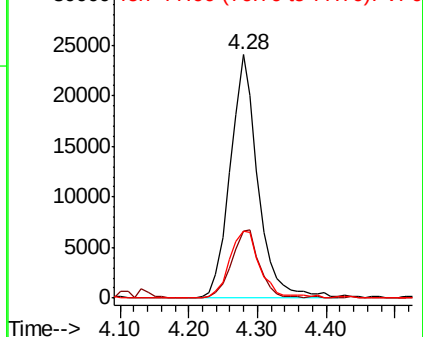


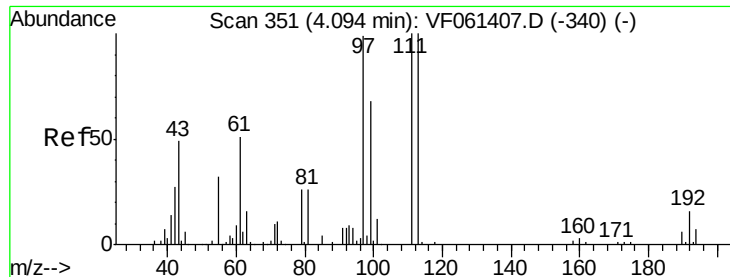
#36
 1,1-Dichloropropene
 Concen: 21.095 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion: 75 Resp: 67036
 Ion Ratio Lower Upper
 75 100
 110 27.3 15.8 47.3
 77 27.5 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: 20.510 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.03 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

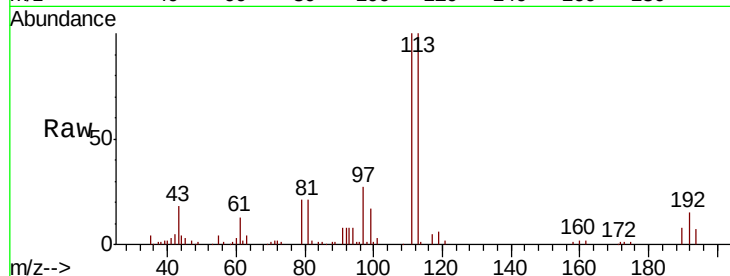
Tgt Ion: 43 Resp: 26053

Ion Ratio Lower Upper

43 100

61 73.0 81.7 122.5#

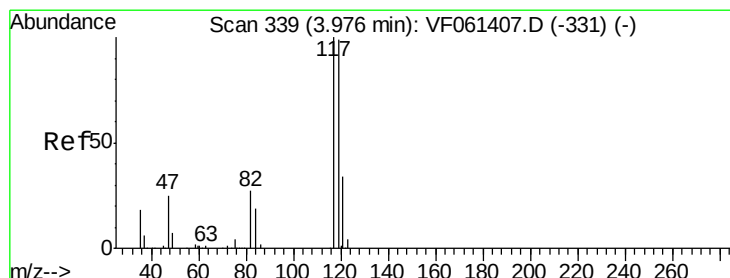
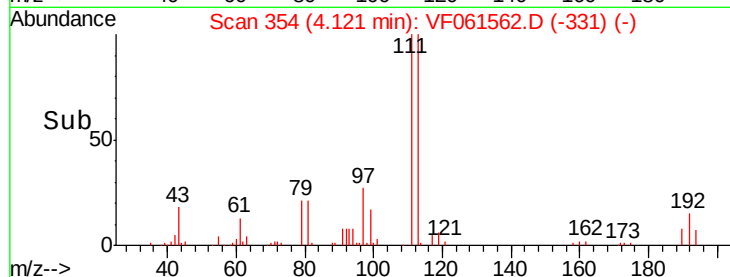
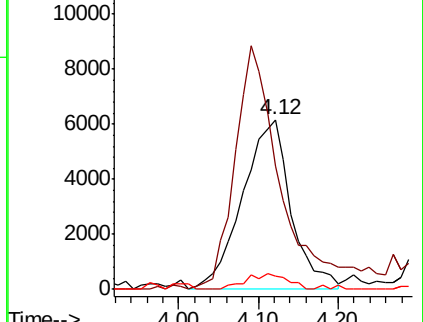
70 8.0 6.2 9.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 22.659 ug/l

RT: 3.99 min Scan# 341

Delta R.T. 0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

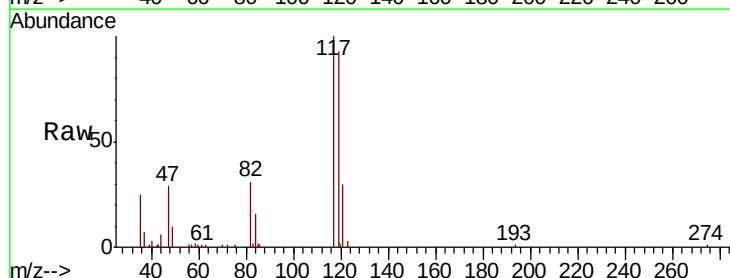
Tgt Ion: 117 Resp: 62950

Ion Ratio Lower Upper

117 100

119 93.4 79.0 118.6

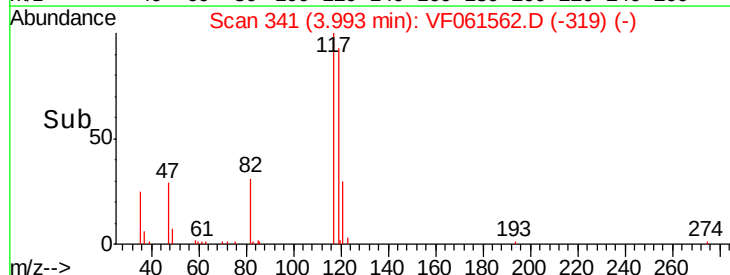
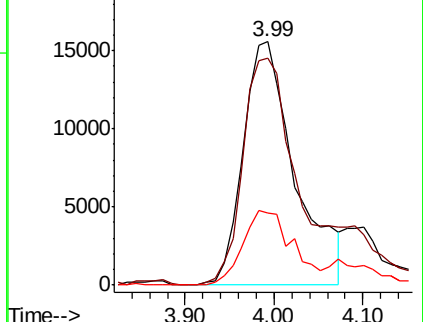
121 29.9 27.0 40.6

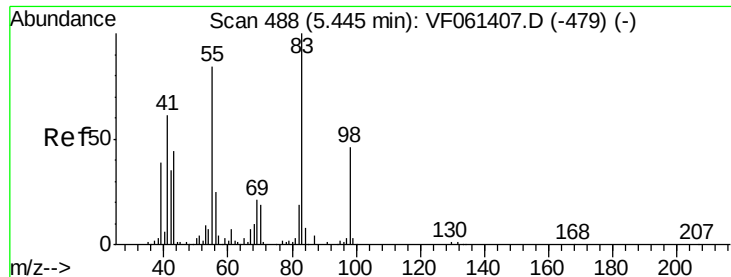


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

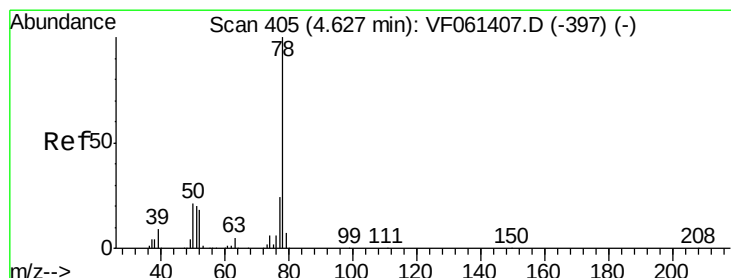
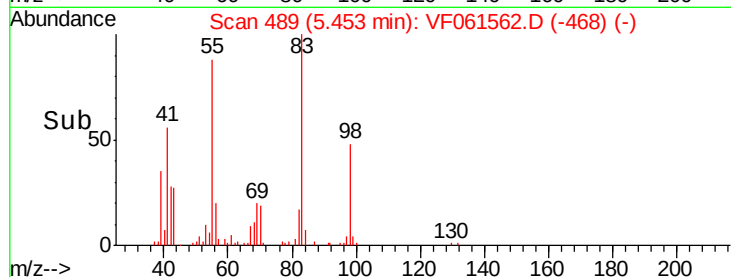
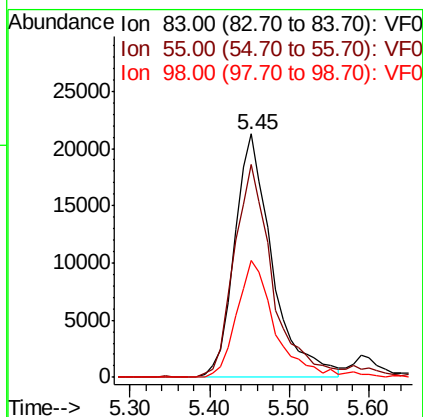
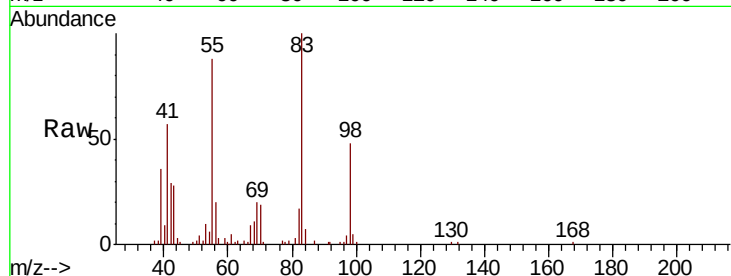




#39
Methylcyclohexane
Concen: 20.319 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

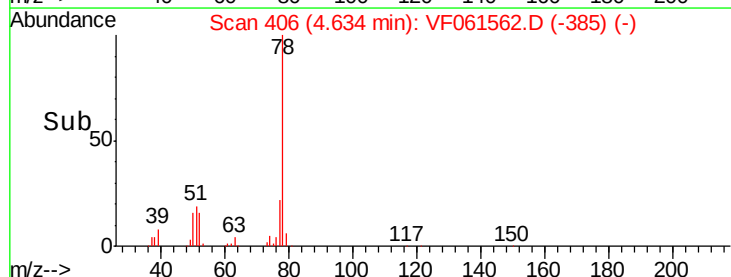
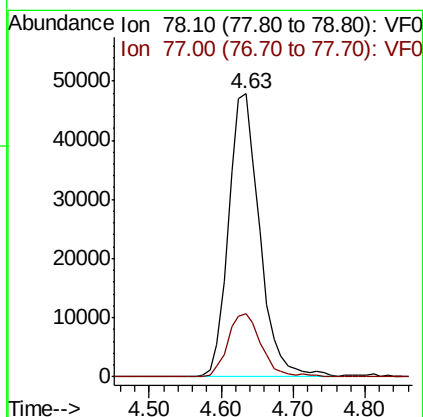
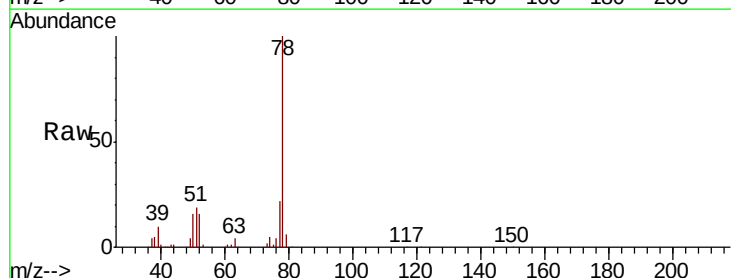
Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

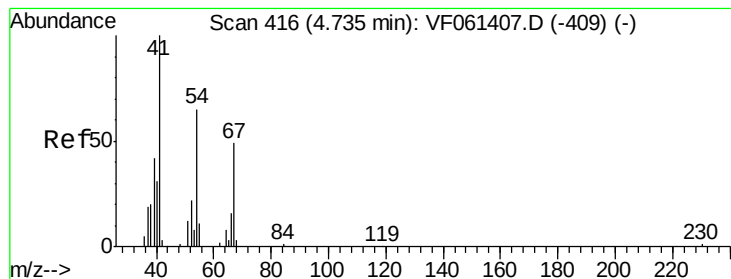
Tgt Ion: 83 Resp: 69975
Ion Ratio Lower Upper
83 100
55 87.6 67.4 101.2
98 47.9 36.7 55.1



#40
Benzene
Concen: 20.334 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion: 78 Resp: 143789
Ion Ratio Lower Upper
78 100
77 22.4 19.0 28.6





#41

Methacrylonitrile

Concen: 24.732 ug/l

RT: 4.74 min Scan# 417

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

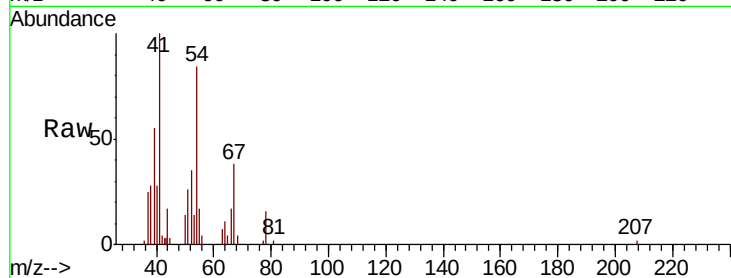
MSVOA_F

ClientSampleId :

VF0208SBSD01

Tgt Ion: 41 Resp: 16717

Ion	Ratio	Lower	Upper
41	100		
39	55.5	43.1	64.7
67	38.2	38.8	58.2#
52	34.6	33.2	49.8



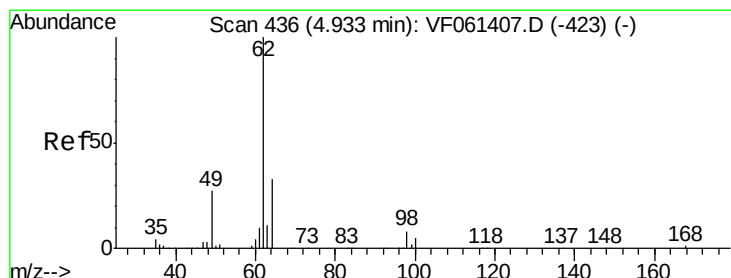
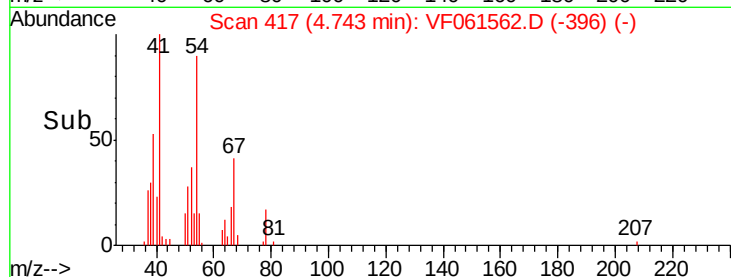
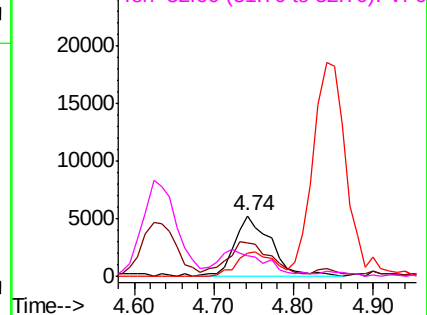
Abundance

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 22.188 ug/l

RT: 4.94 min Scan# 437

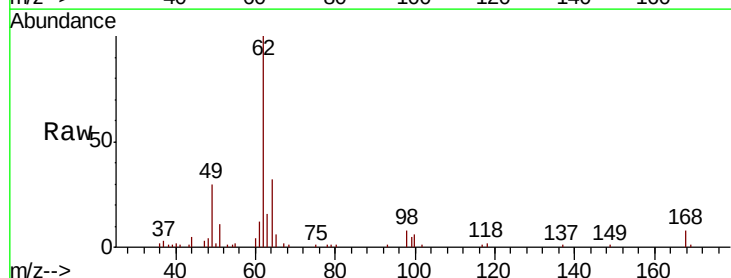
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion: 62 Resp: 55909

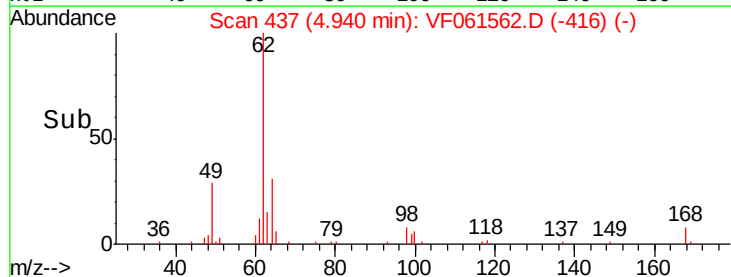
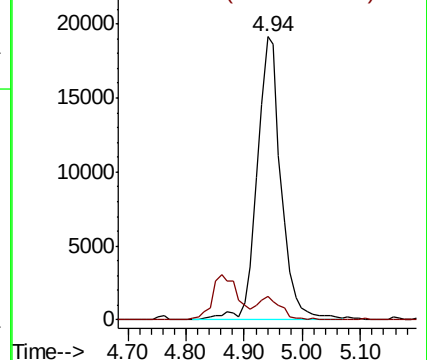
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0

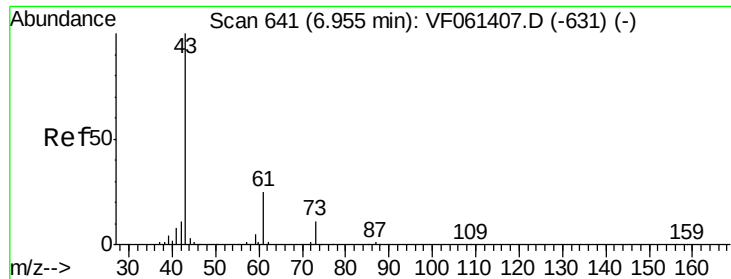


Abundance

Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



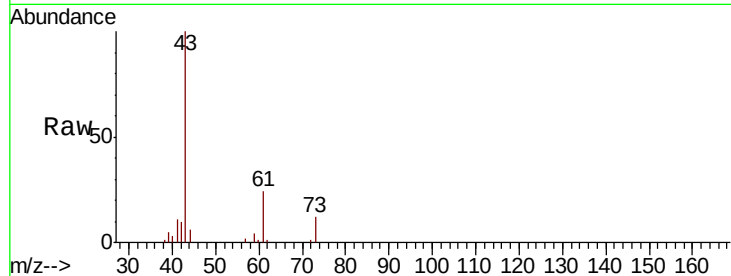


#43

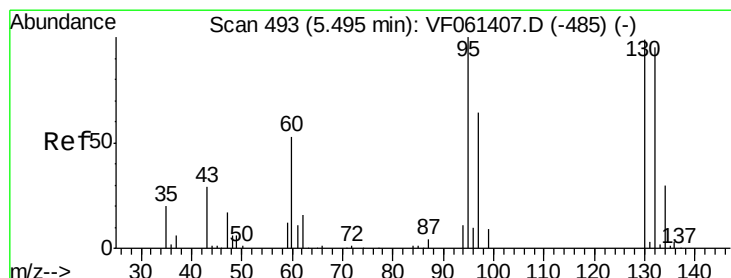
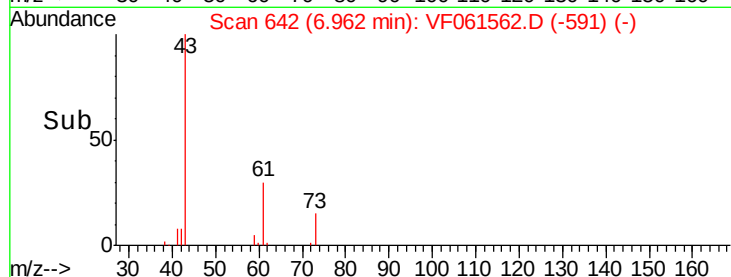
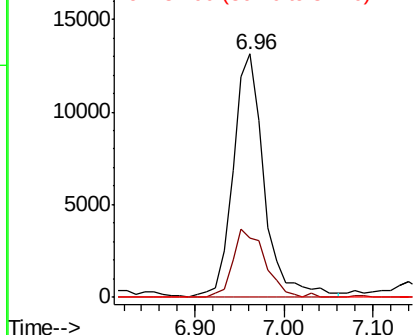
Isopropyl Acetate
 Concen: 20.139 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tgt Ion: 43 Resp: 32107
 Ion Ratio Lower Upper
 43 100
 61 24.4 20.3 30.5
 87 0.0 0.5 0.7#



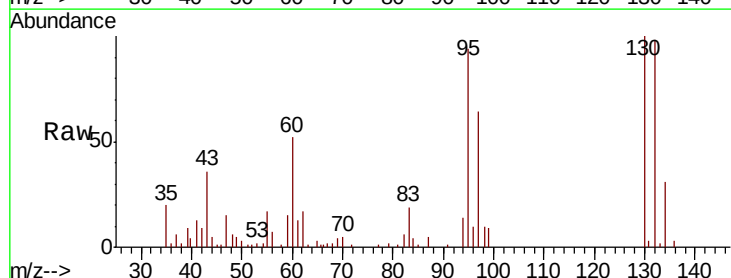
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



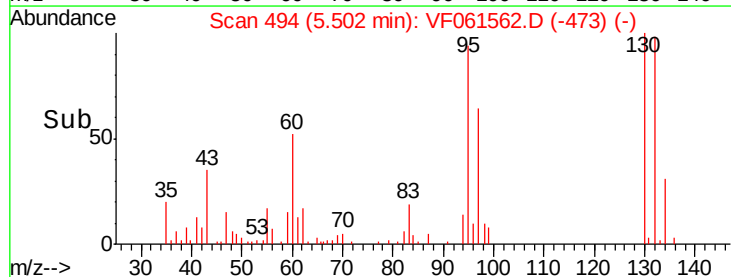
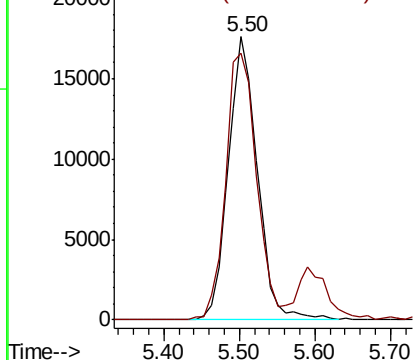
#44

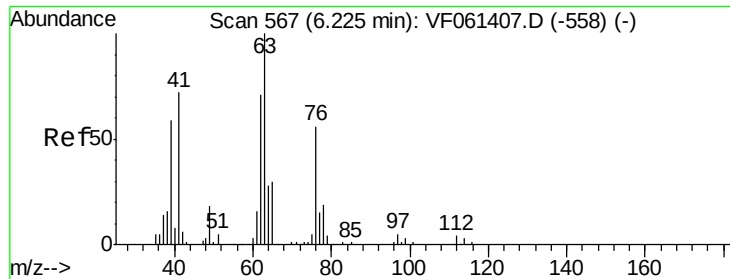
Trichloroethene
 Concen: 21.471 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion: 130 Resp: 46575
 Ion Ratio Lower Upper
 130 100
 95 94.4 0.0 202.8



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 20.004 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

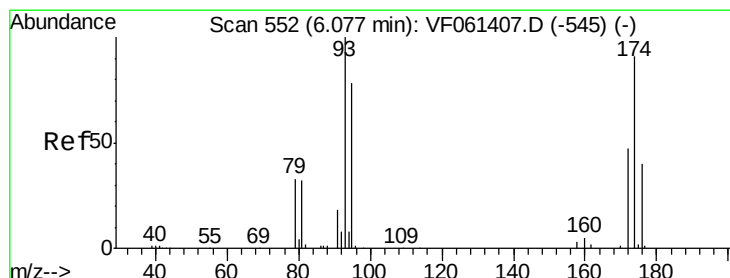
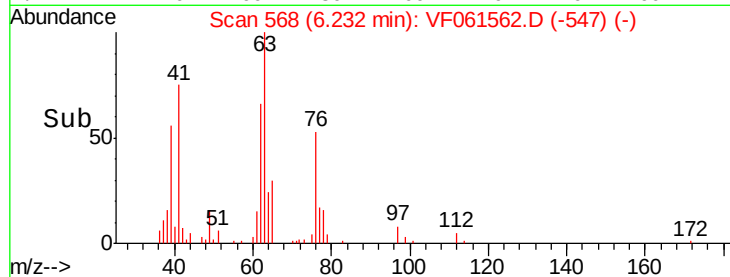
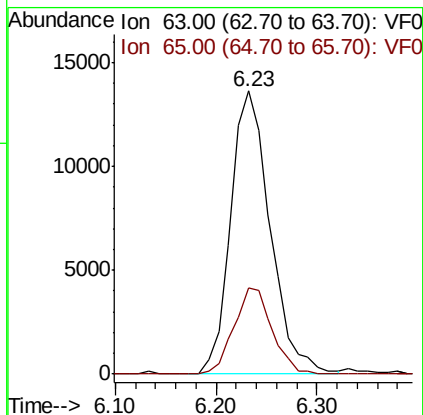
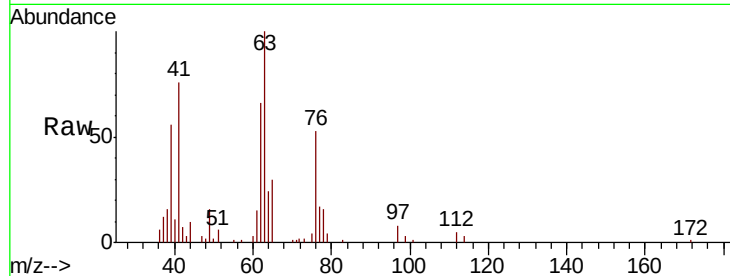
VF0208SBSD01

Tgt Ion: 63 Resp: 37124

Ion Ratio Lower Upper

63 100

65 30.3 24.4 36.6



#46

Dibromomethane

Concen: 20.660 ug/l

RT: 6.08 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

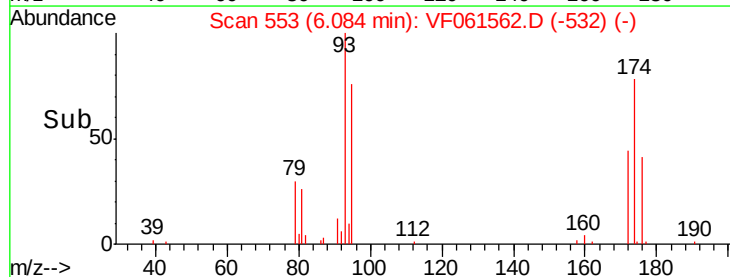
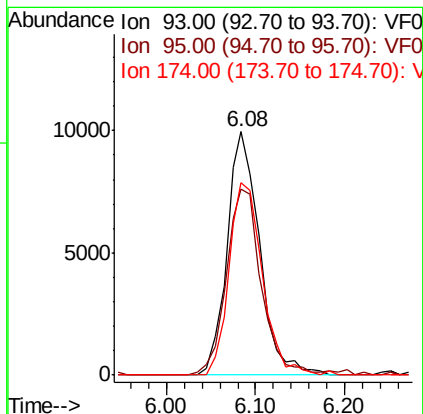
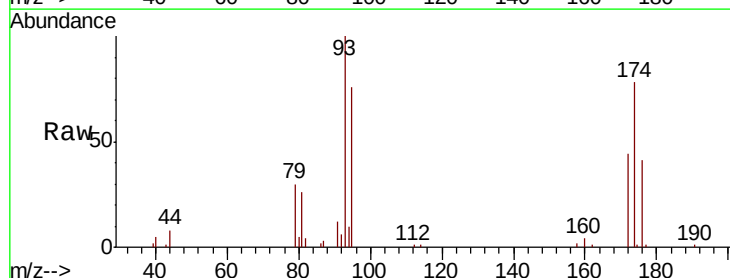
Tgt Ion: 93 Resp: 25495

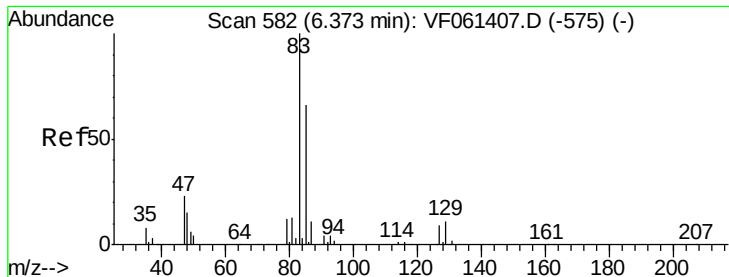
Ion Ratio Lower Upper

93 100

95 76.4 62.1 93.1

174 79.1 74.6 111.8





#47

Bromodichloromethane

Concen: 21.642 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

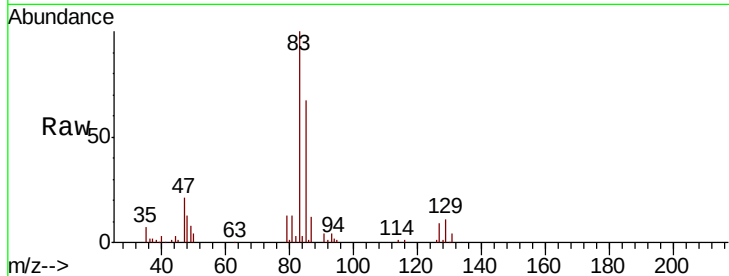
Tgt Ion: 83 Resp: 66079

Ion Ratio Lower Upper

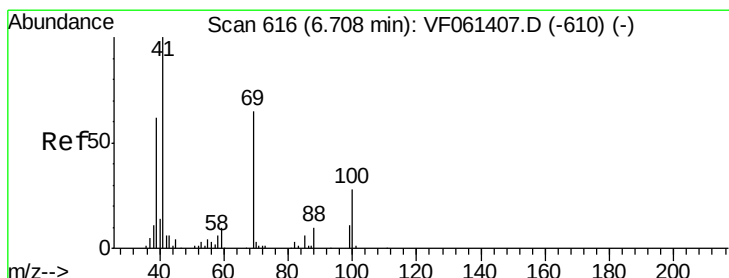
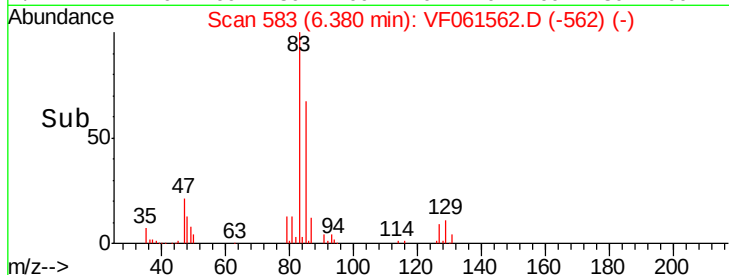
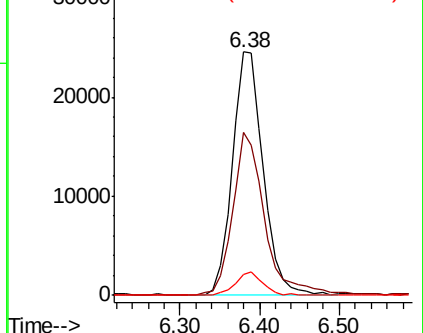
83 100

85 67.2 53.0 79.4

127 8.6 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: 20.134 ug/l

RT: 6.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

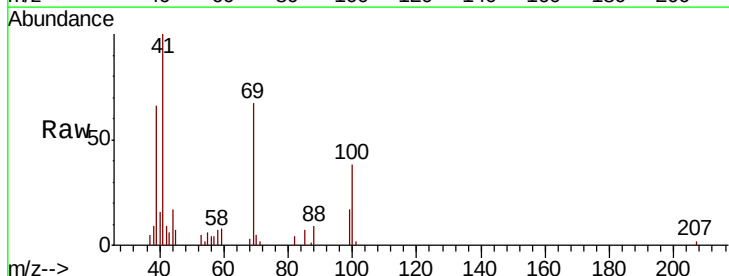
Tgt Ion: 41 Resp: 21555

Ion Ratio Lower Upper

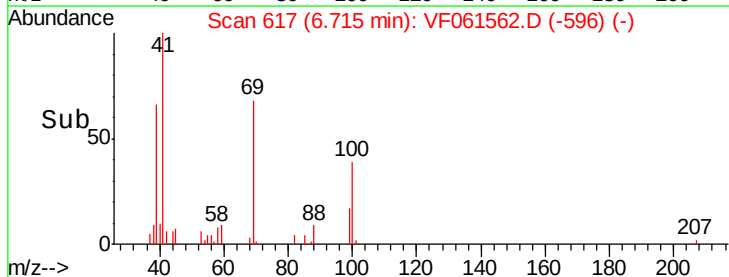
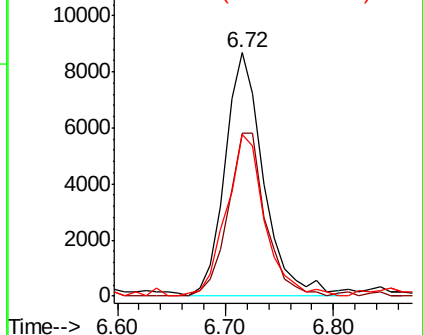
41 100

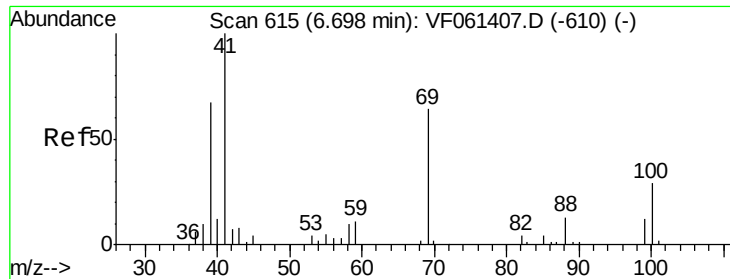
69 66.8 51.7 77.5

39 66.5 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: 363.703 ug/l

RT: 6.71 min Scan# 616

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

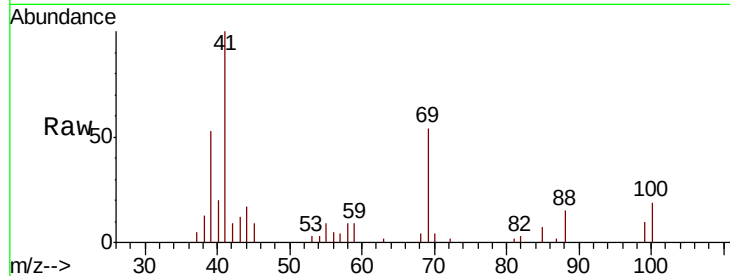
Tgt Ion: 88 Resp: 3048

Ion Ratio Lower Upper

88 100

43 77.1 55.5 83.3

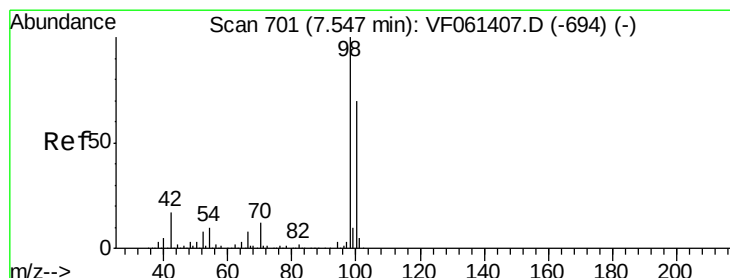
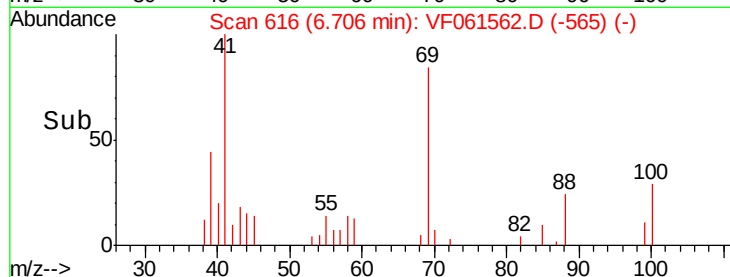
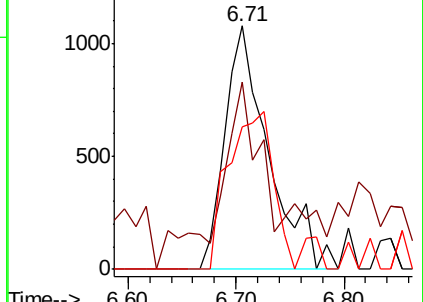
58 58.6 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.708 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061562.D

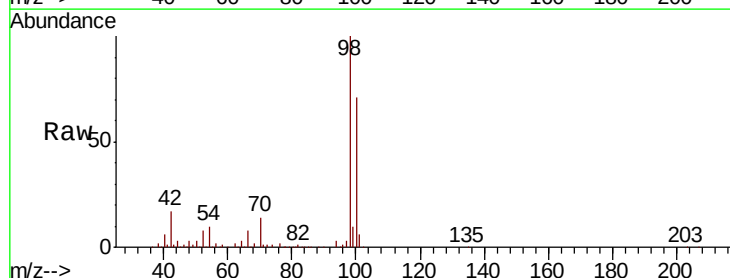
Acq: 8 Feb 2019 17:19

Tgt Ion: 98 Resp: 306392

Ion Ratio Lower Upper

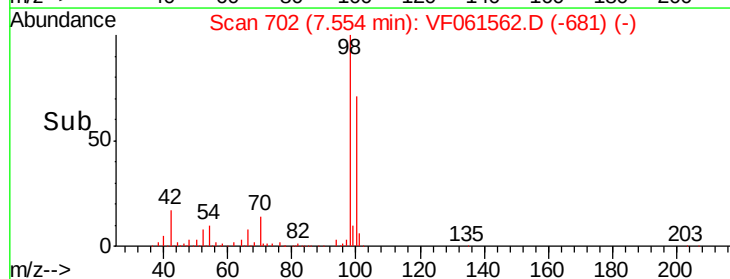
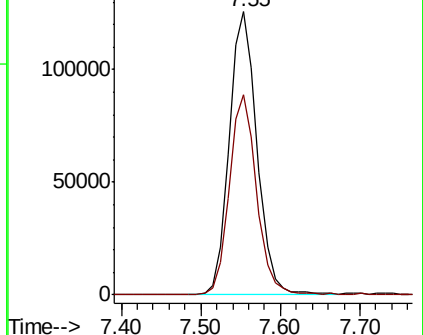
98 100

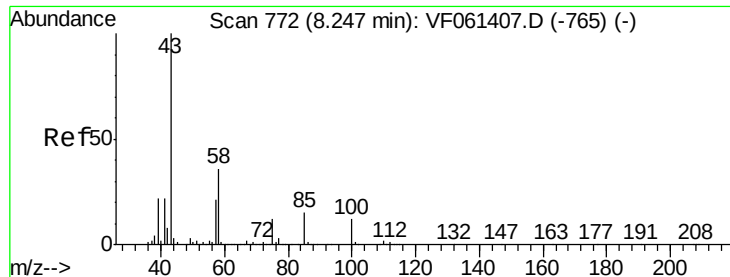
100 70.7 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 108.110 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

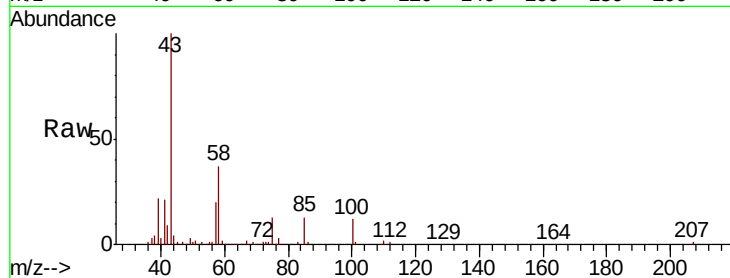
VF0208SBSD01

Tgt Ion: 43 Resp: 126711

Ion Ratio Lower Upper

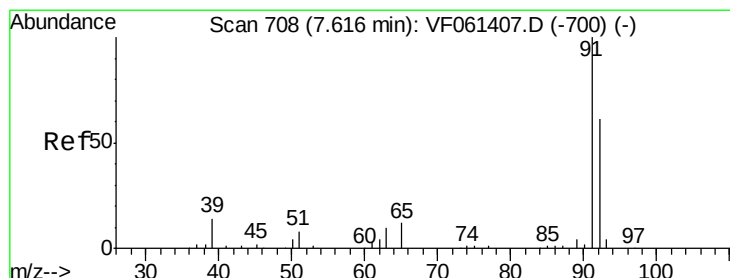
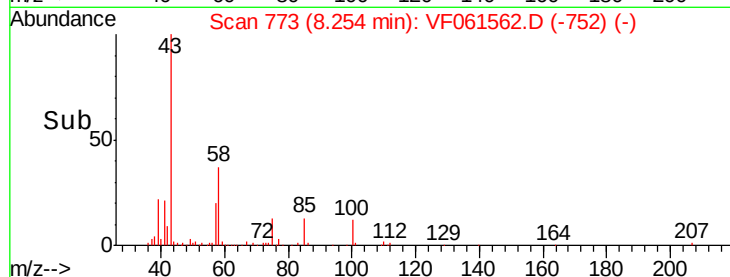
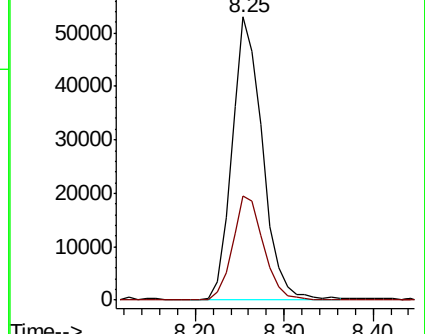
43 100

58 36.7 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: 19.884 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061562.D

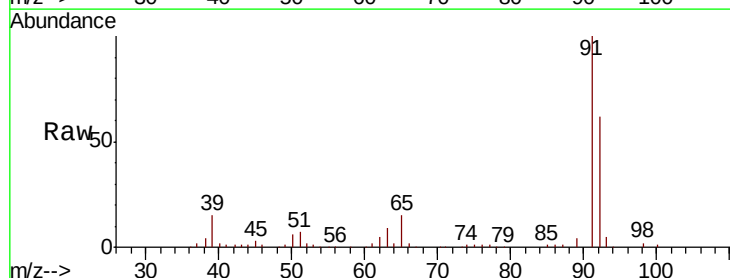
Acq: 8 Feb 2019 17:19

Tgt Ion: 92 Resp: 92592

Ion Ratio Lower Upper

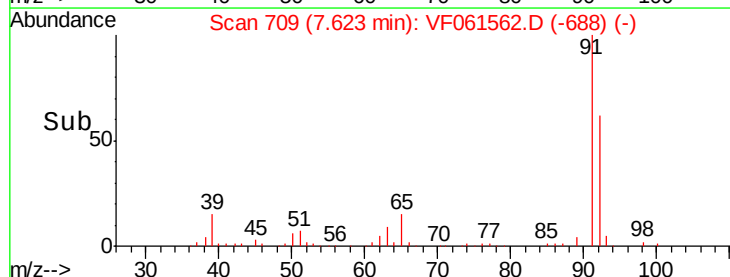
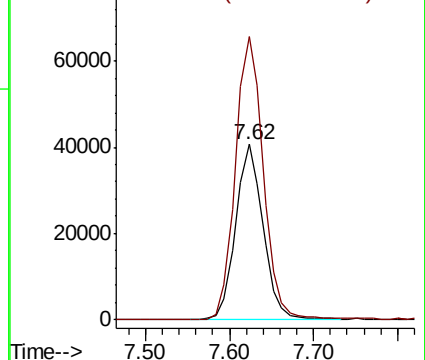
92 100

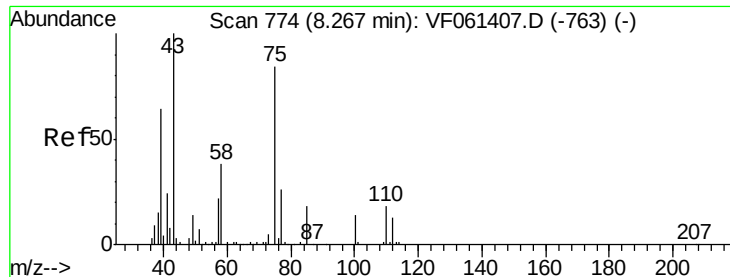
91 161.1 131.2 196.8



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: 21.909 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

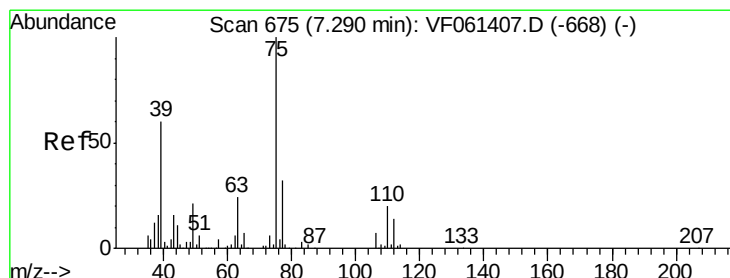
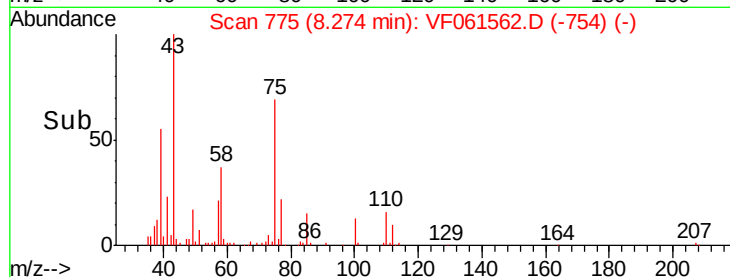
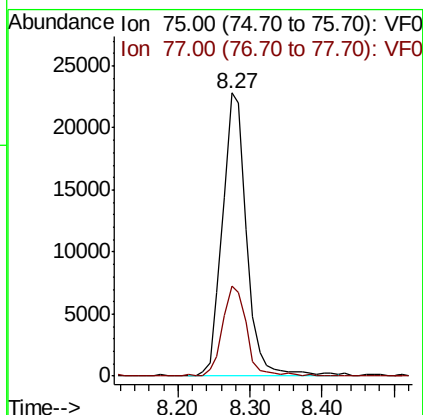
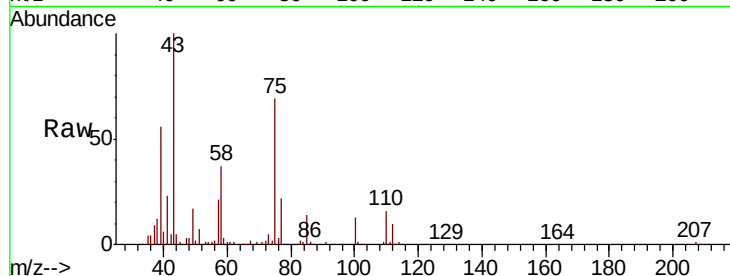
VF0208SBSD01

Tgt Ion: 75 Resp: 53117

Ion Ratio Lower Upper

75 100

77 31.6 24.4 36.6



#54

cis-1,3-Dichloropropene

Concen: 20.866 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

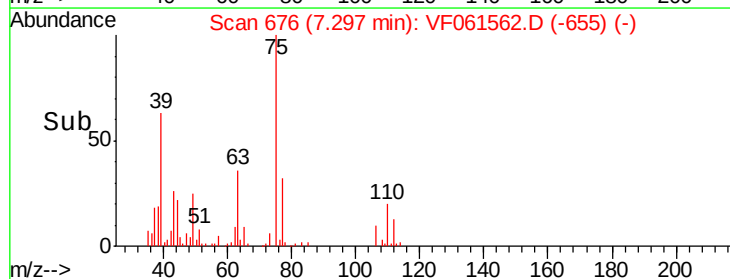
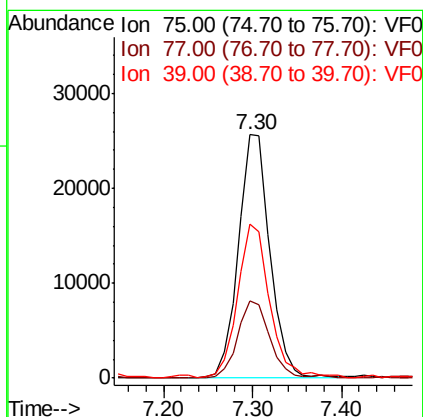
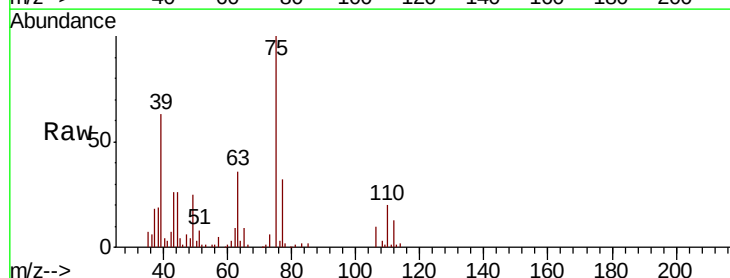
Tgt Ion: 75 Resp: 63234

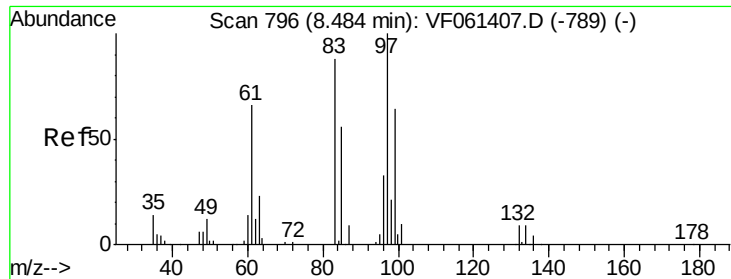
Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.0

39 63.5 47.8 71.8

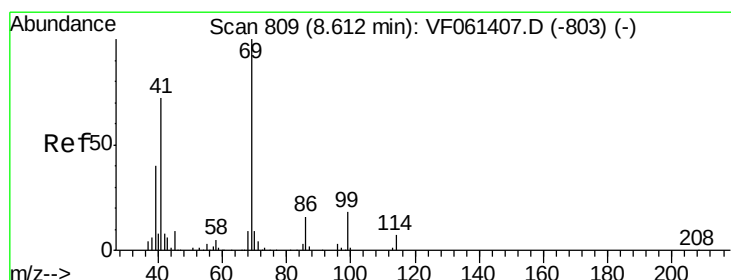
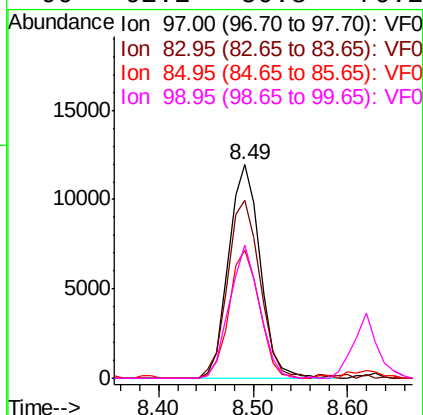
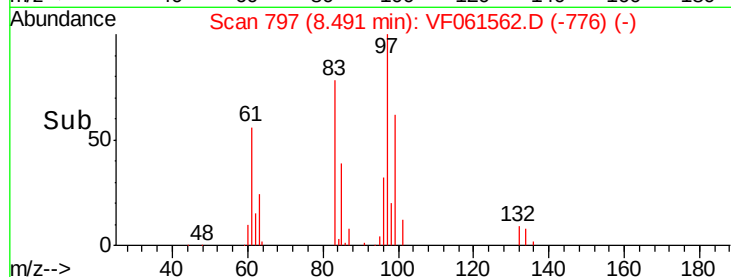
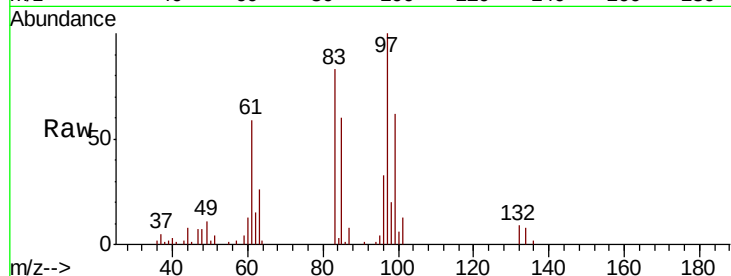




#55
 1,1,2-Trichloroethane
 Concen: 20.873 ug/l
 RT: 8.49 min Scan# 797
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

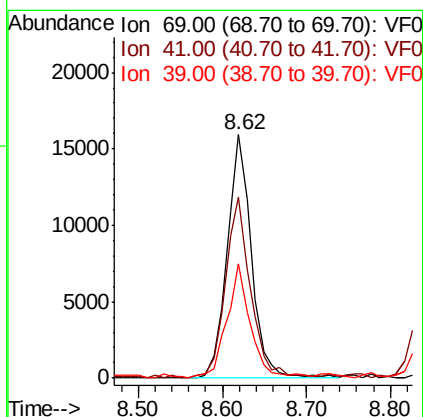
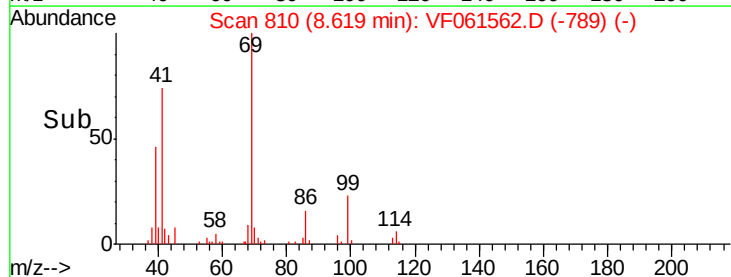
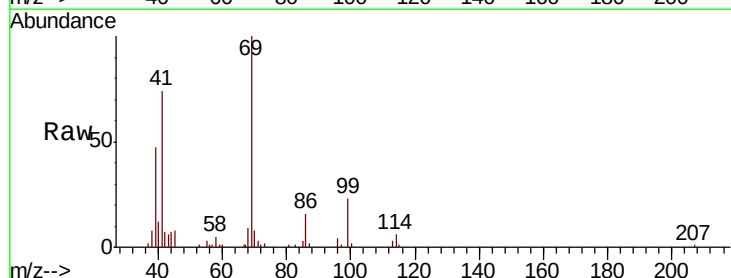
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

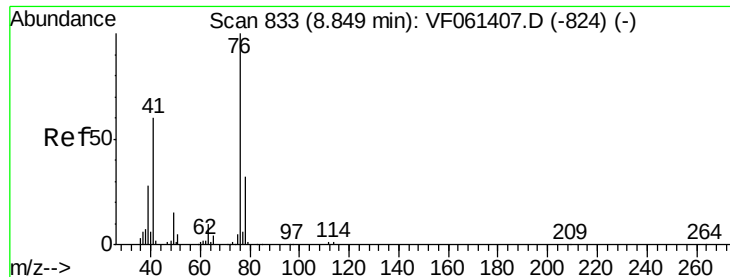
Tgt Ion: 97 Resp: 27601
 Ion Ratio Lower Upper
 97 100
 83 83.2 70.4 105.6
 85 60.1 44.7 67.1
 99 62.2 50.8 76.2



#56
 Ethyl methacrylate
 Concen: 20.727 ug/l
 RT: 8.62 min Scan# 810
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion: 69 Resp: 31887
 Ion Ratio Lower Upper
 69 100
 41 74.3 57.5 86.3
 39 47.2 32.0 48.0





#57

1,3-Dichloropropane

Concen: 20.948 ug/l

RT: 8.86 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

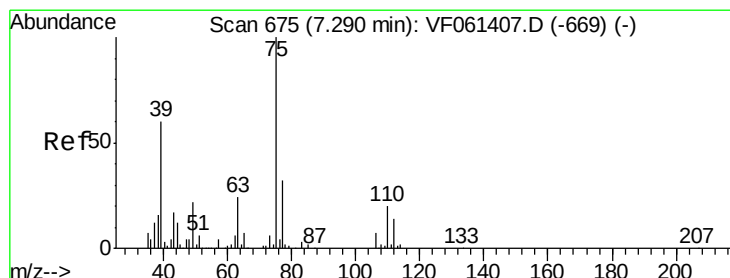
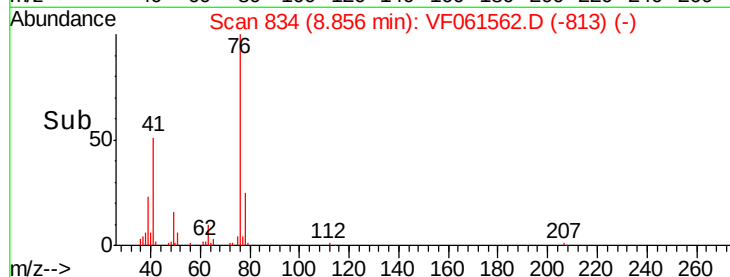
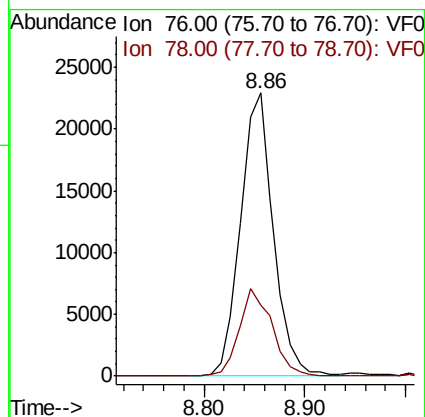
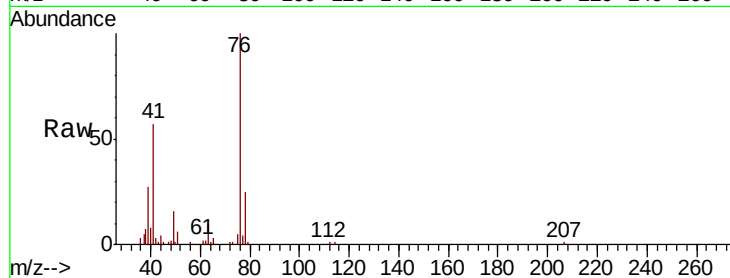
VF0208SBSD01

Tgt Ion: 76 Resp: 51922

Ion Ratio Lower Upper

76 100

78 24.9 25.3 37.9#



#58

2-Chloroethyl Vinyl ether

Concen: 146.439 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061562.D

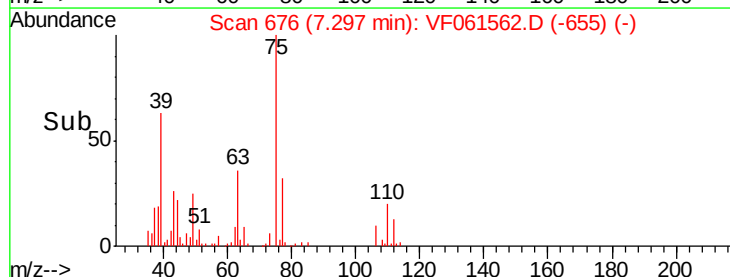
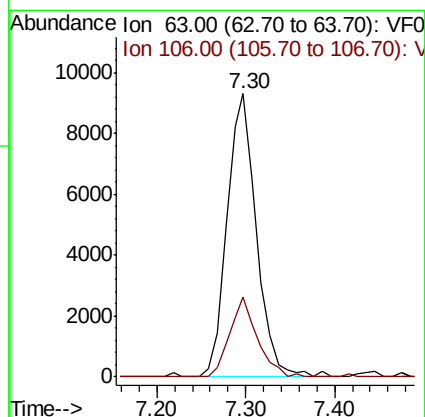
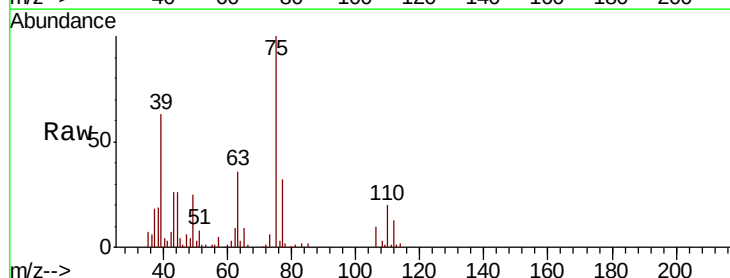
Acq: 8 Feb 2019 17:19

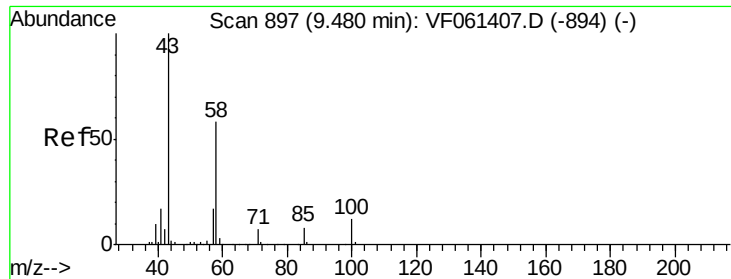
Tgt Ion: 63 Resp: 21558

Ion Ratio Lower Upper

63 100

106 28.2 21.9 32.9

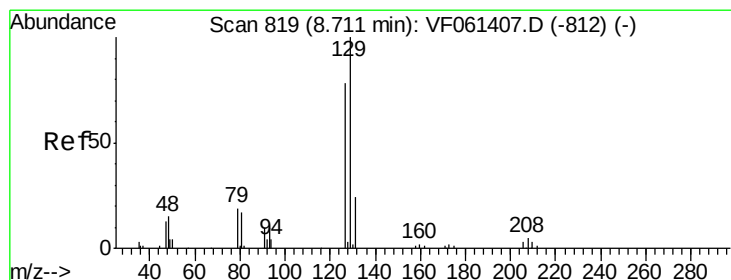
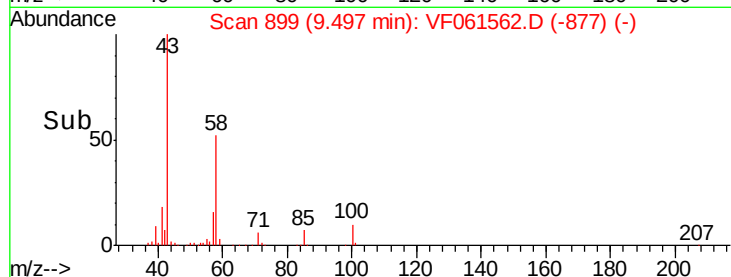
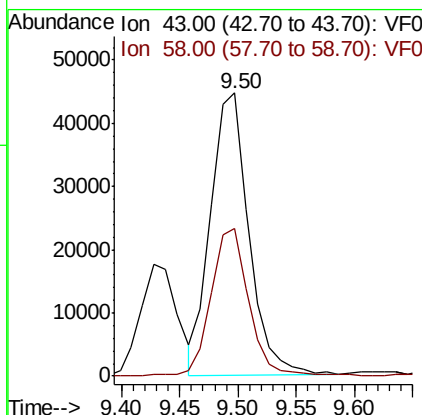
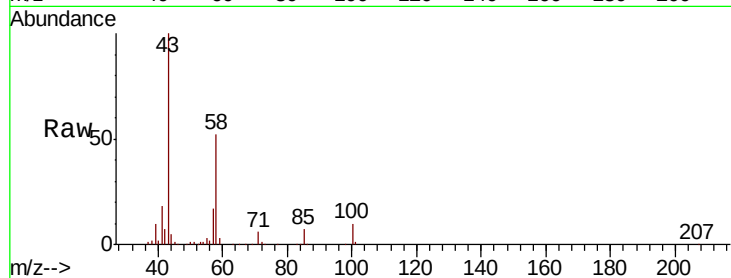




#59
2-Hexanone
Concen: 123.872 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.02 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

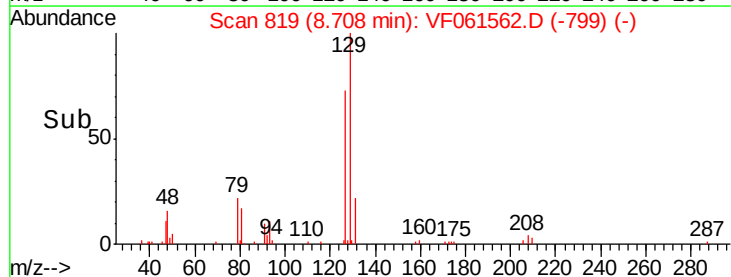
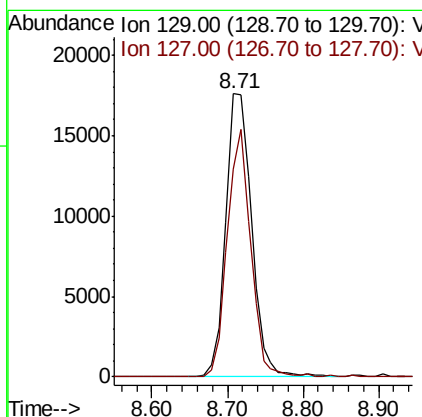
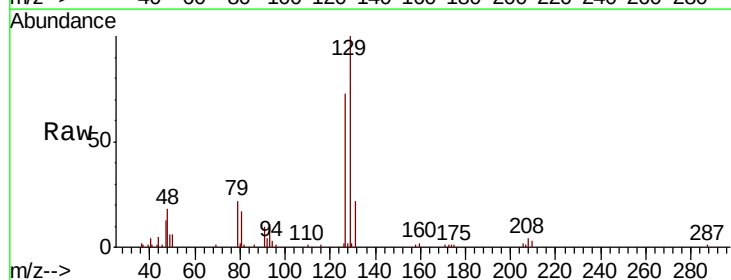
Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

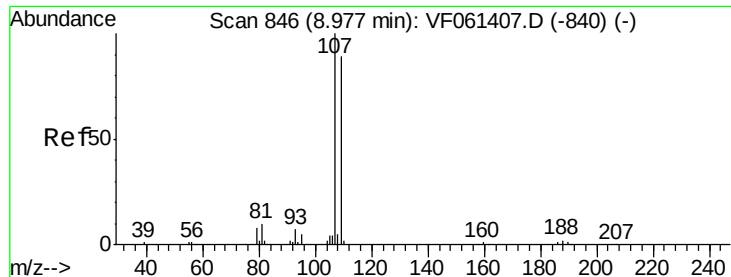
Tgt Ion: 43 Resp: 101240
Ion Ratio Lower Upper
43 100
58 52.0 25.9 77.6



#60
Dibromochloromethane
Concen: 21.610 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.00 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion: 129 Resp: 41777
Ion Ratio Lower Upper
129 100
127 73.4 39.1 117.2





#61

1,2-Dibromoethane

Concen: 19.734 ug/l

RT: 8.98 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

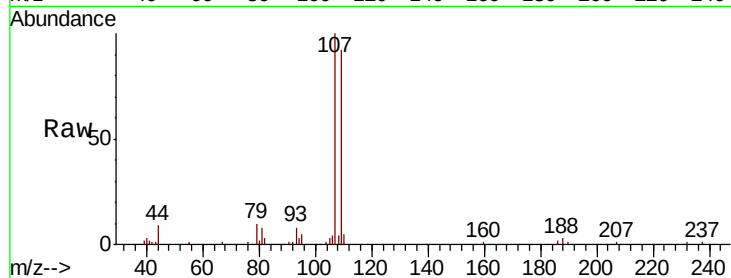
VF0208SBSD01

Tgt Ion: 107 Resp: 29873

Ion Ratio Lower Upper

107 100

109 92.0 70.8 106.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

15000

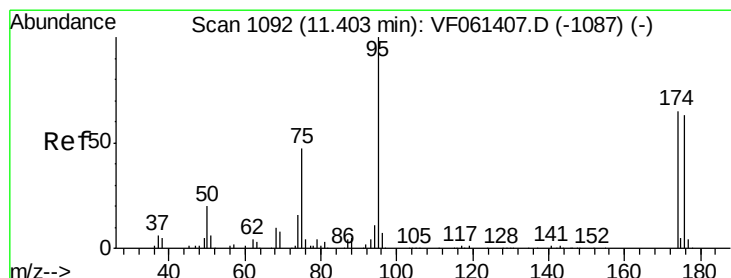
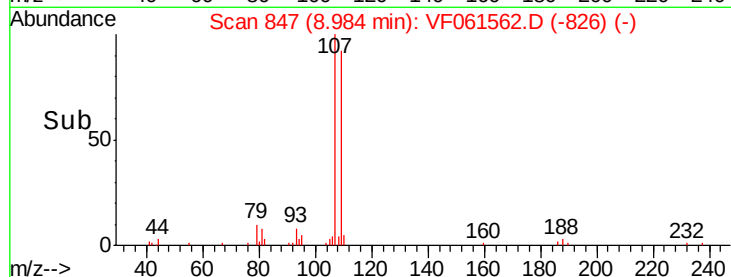
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 55.302 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

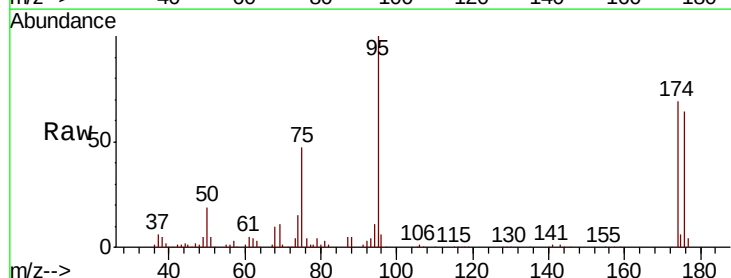
Tgt Ion: 95 Resp: 153107

Ion Ratio Lower Upper

95 100

174 69.4 0.0 130.4

176 63.8 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

120000

100000

80000

60000

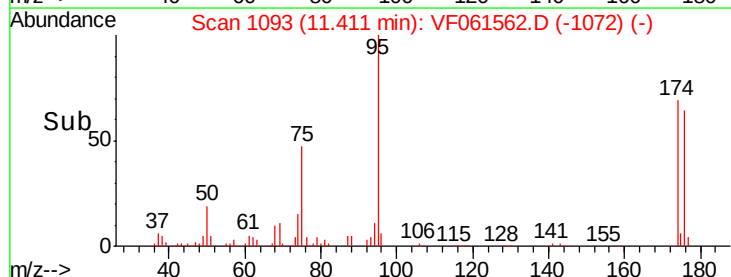
40000

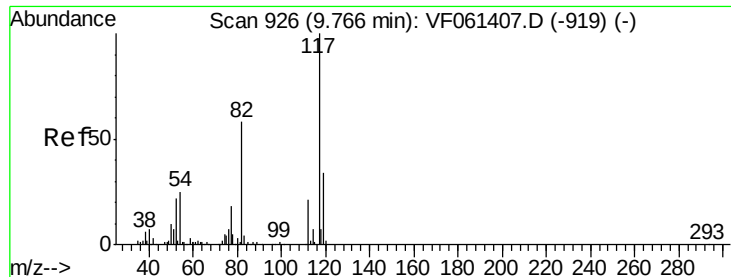
20000

0

Time-->

11.30 11.40 11.50 11.60





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

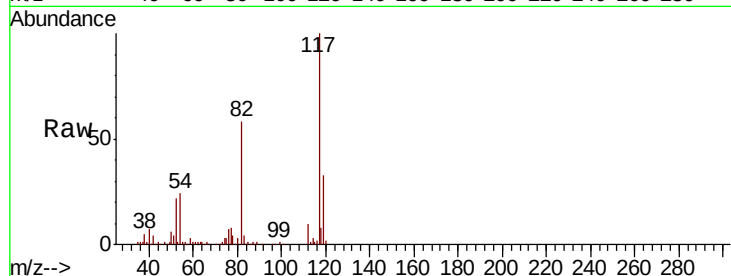
Tgt Ion:117 Resp: 266759

Ion Ratio Lower Upper

117 100

82 57.7 46.4 69.6

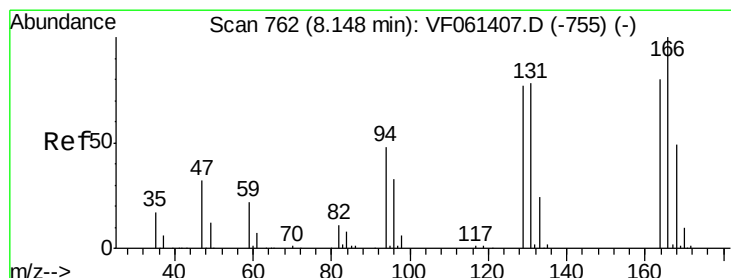
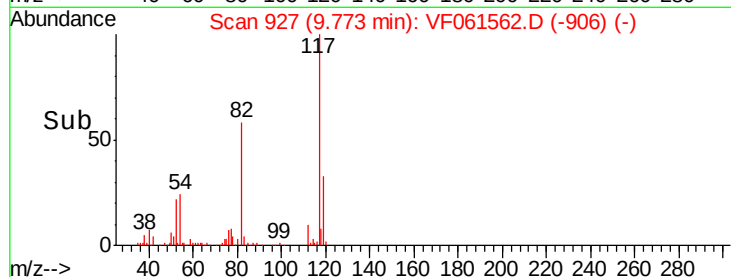
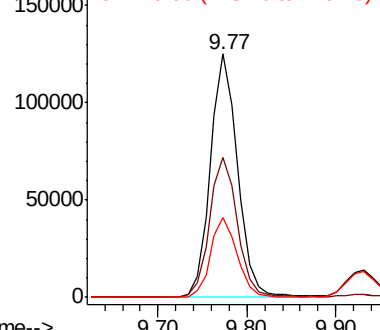
119 32.8 27.2 40.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 18.981 ug/l

RT: 8.16 min Scan# 763

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:164 Resp: 38077

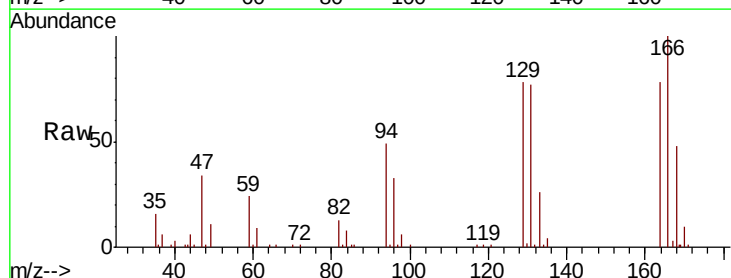
Ion Ratio Lower Upper

164 100

166 127.9 99.6 149.4

129 99.3 76.4 114.6

131 98.0 77.9 116.9

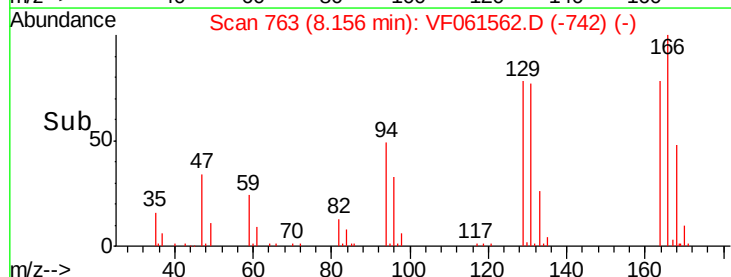
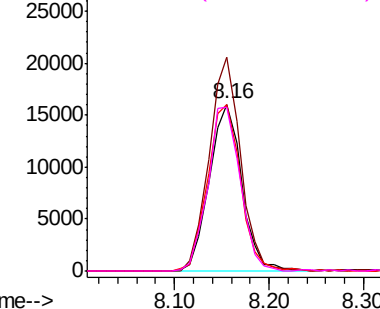


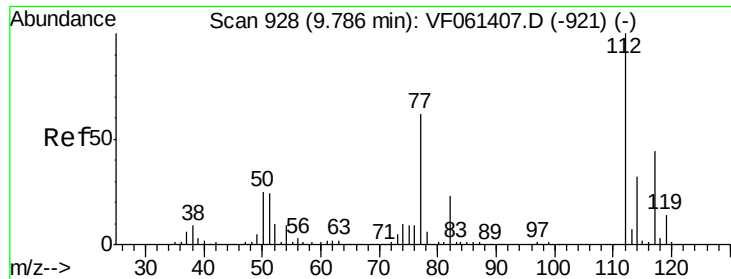
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

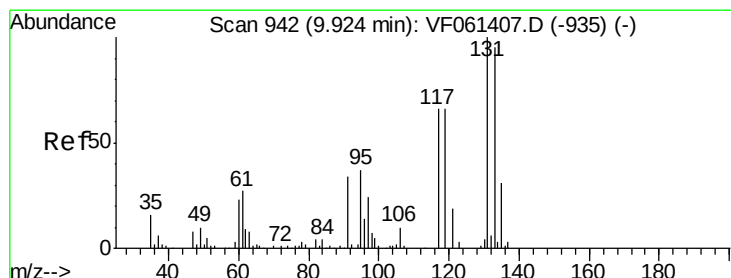
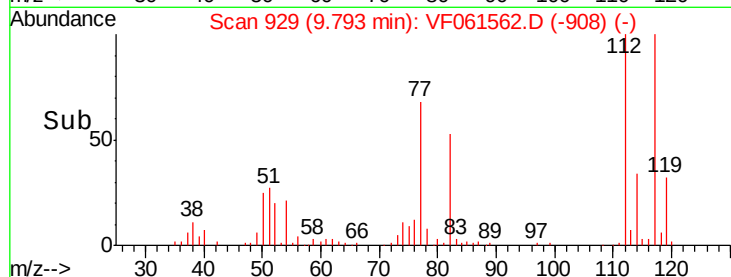
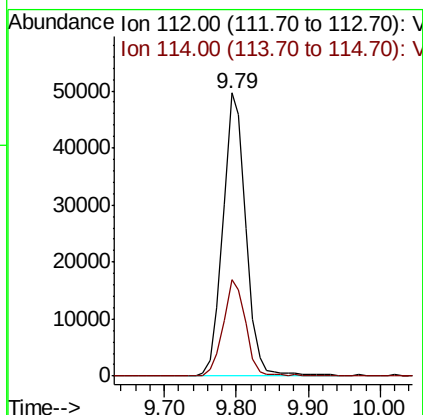
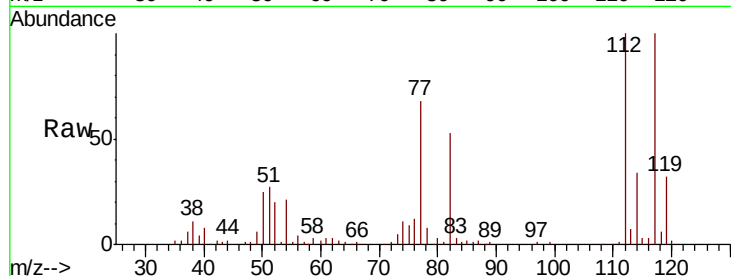




#65
Chlorobenzene
Concen: 20.192 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

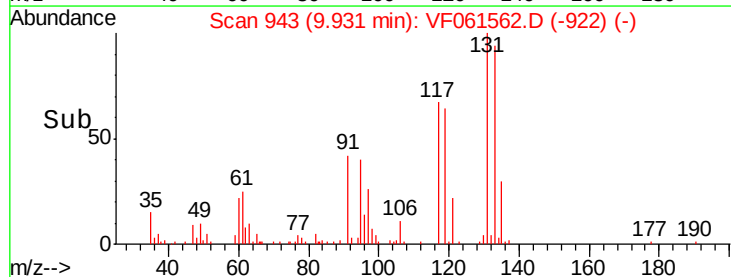
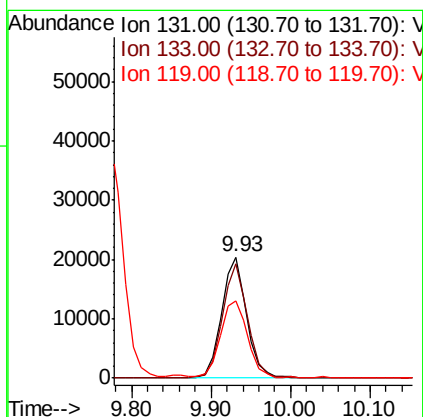
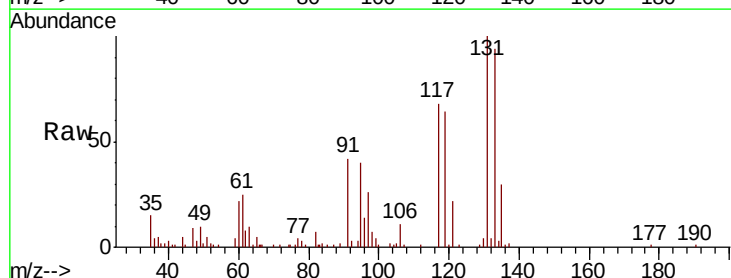
Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

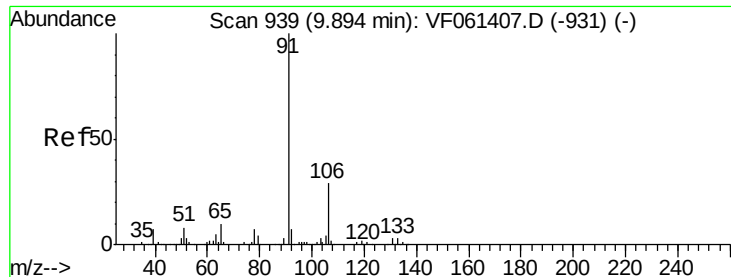
Tgt Ion:112 Resp: 109534
Ion Ratio Lower Upper
112 100
114 33.9 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 20.834 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion:131 Resp: 45022
Ion Ratio Lower Upper
131 100
133 94.3 47.4 142.2
119 64.2 33.1 99.3





#67

Ethyl Benzene

Concen: 20.360 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

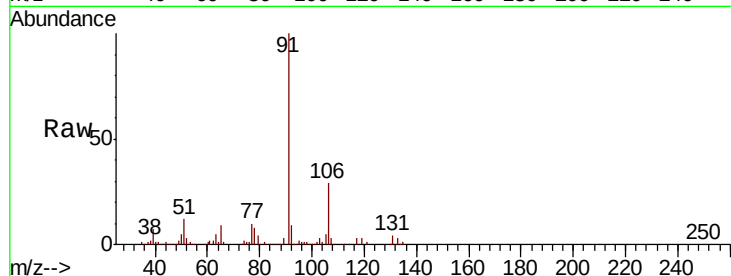
VF0208SBSD01

Tgt Ion: 91 Resp: 201793

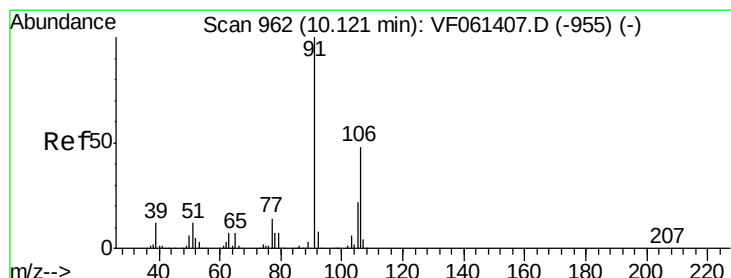
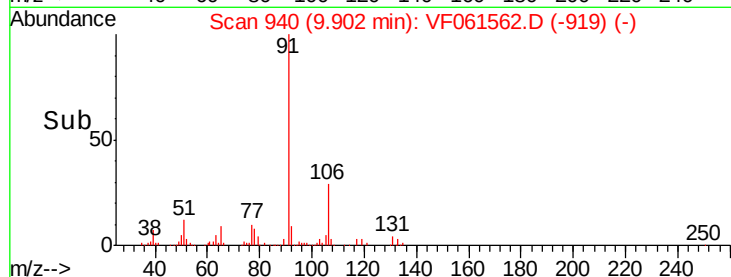
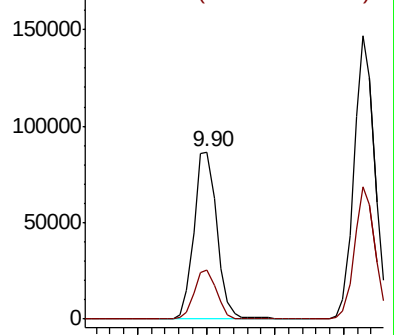
Ion Ratio Lower Upper

91 100

106 29.4 23.1 34.7



Abundance Ion 91.00 (90.70 to 91.70): VF0



#68

m/p-Xylenes

Concen: 40.456 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.01 min

Lab File: VF061562.D

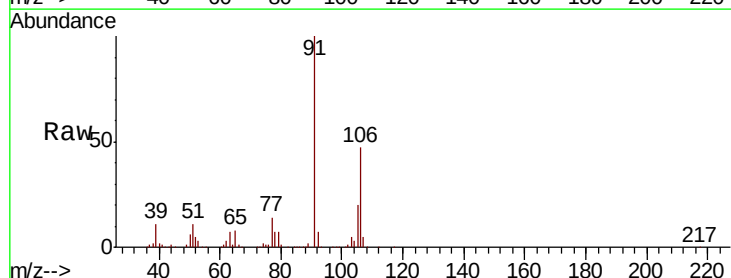
Acq: 8 Feb 2019 17:19

Tgt Ion: 106 Resp: 144214

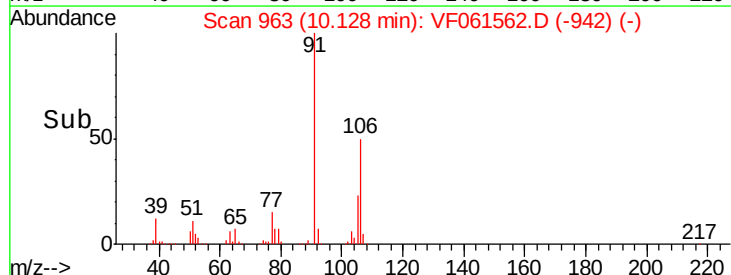
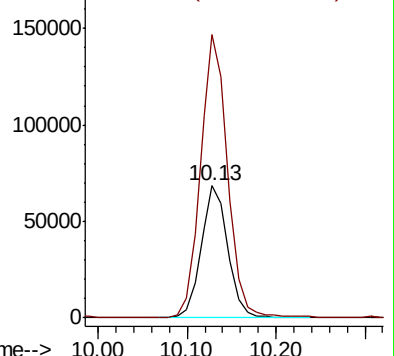
Ion Ratio Lower Upper

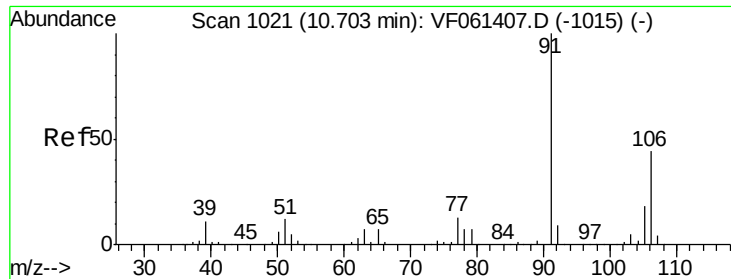
106 100

91 214.0 166.2 249.4



Abundance Ion 106.00 (105.70 to 106.70): V

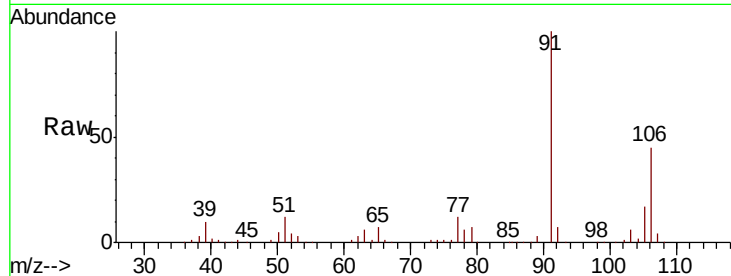




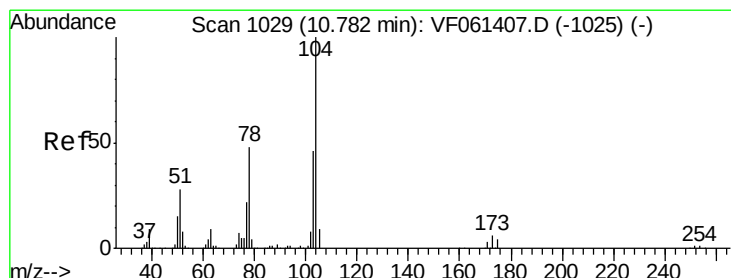
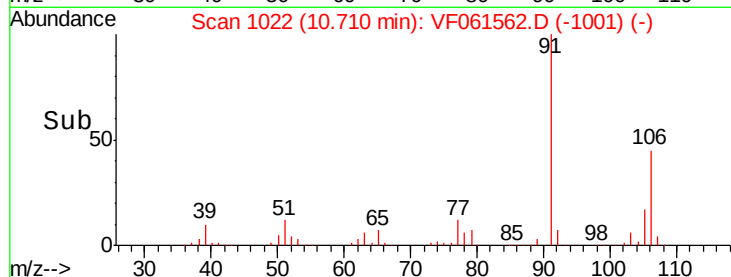
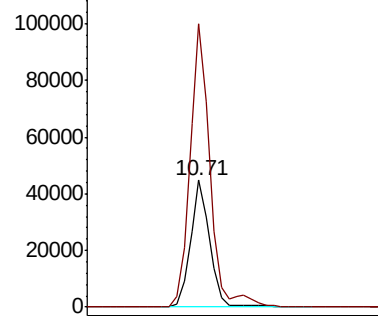
#69
o-Xylene
Concen: 20.716 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tgt Ion:106 Resp: 80036
Ion Ratio Lower Upper
106 100
91 223.2 113.3 339.8

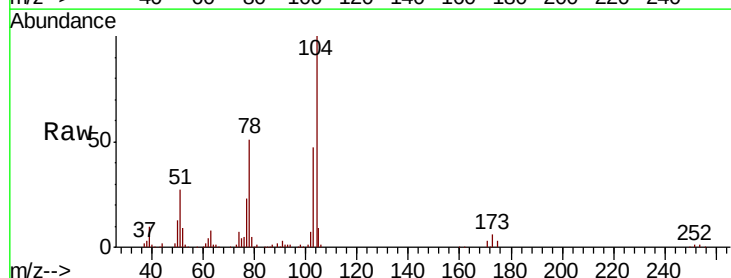


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

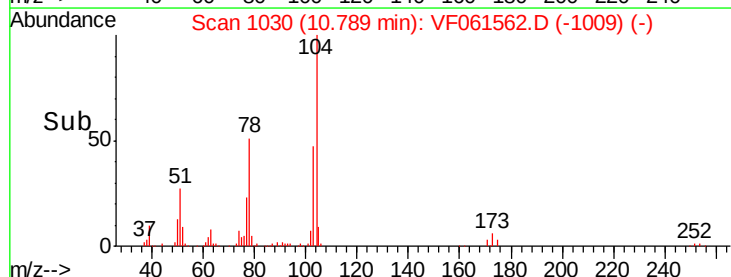
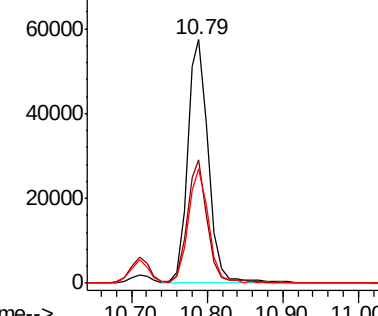


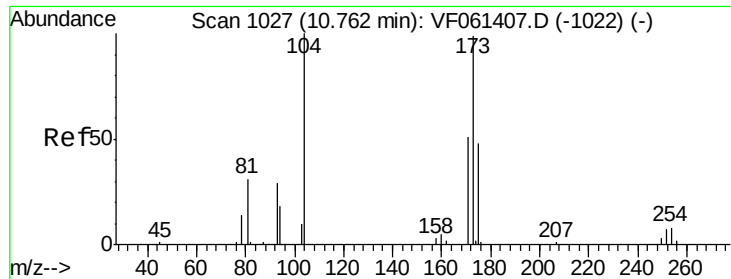
#70
Styrene
Concen: 20.819 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion:104 Resp: 110105
Ion Ratio Lower Upper
104 100
78 50.9 38.8 58.2
103 46.8 37.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 21.141 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

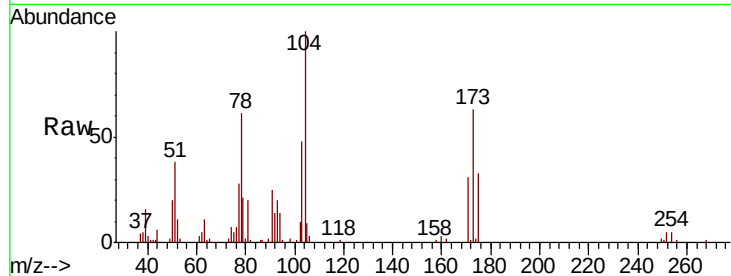
Tgt Ion:173 Resp: 20527

Ion Ratio Lower Upper

173 100

175 51.6 24.1 72.4

254 8.3 0.0 0.0#

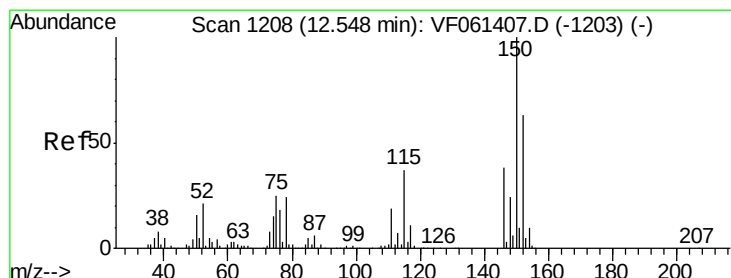
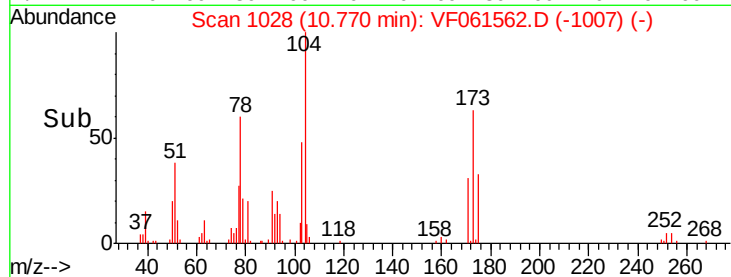
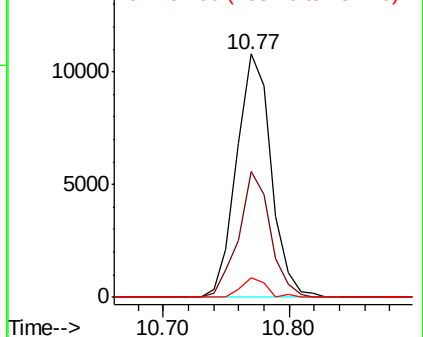


Abundance

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: VF061562.D

Acq: 8 Feb 2019 17:19

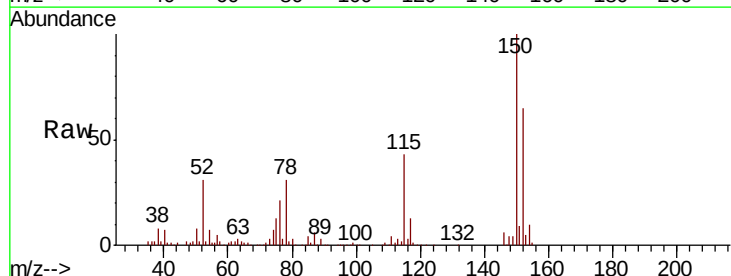
Tgt Ion:152 Resp: 137081

Ion Ratio Lower Upper

152 100

115 65.6 30.0 90.0

150 152.8 0.0 321.4

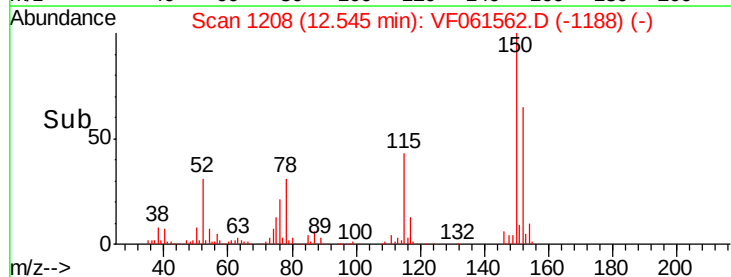
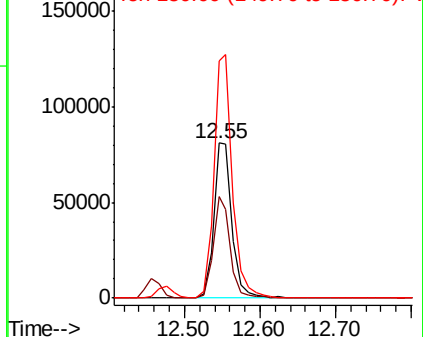


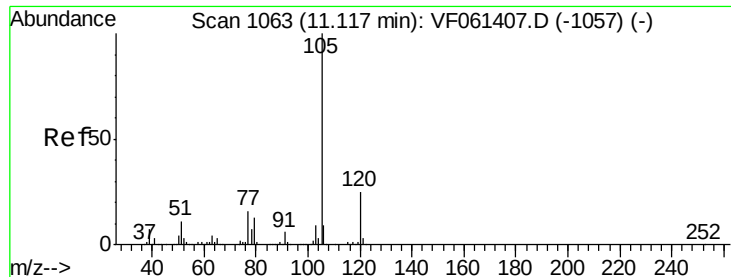
Abundance

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: 21.666 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

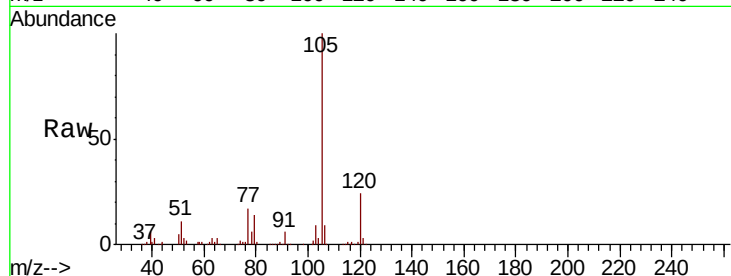
VF0208SBSD01

Tgt Ion:105 Resp: 241556

Ion Ratio Lower Upper

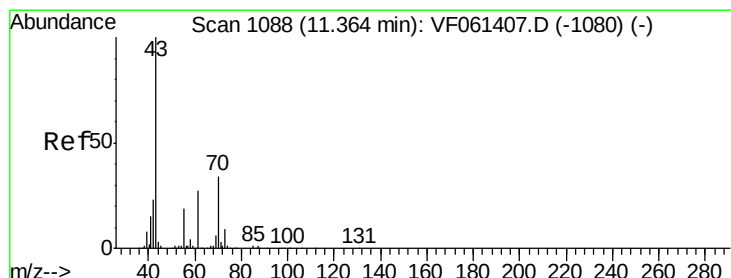
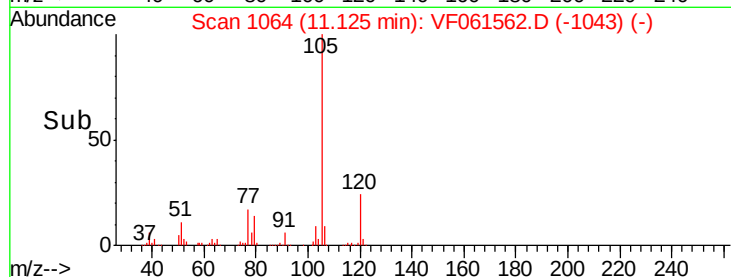
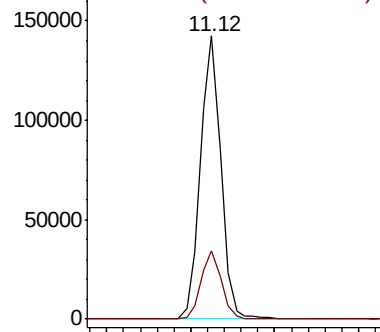
105 100

120 24.2 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.143 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion: 43 Resp: 58376

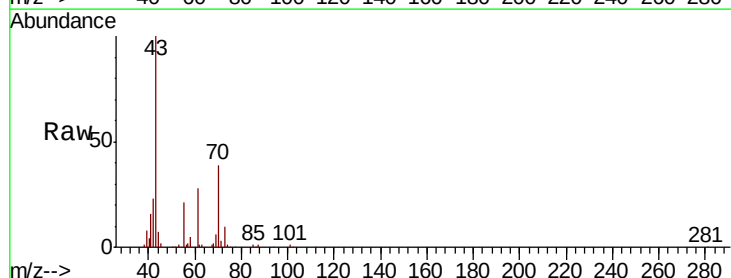
Ion Ratio Lower Upper

43 100

70 38.9 27.6 41.4

55 21.5 15.4 23.2

61 28.3 21.8 32.6

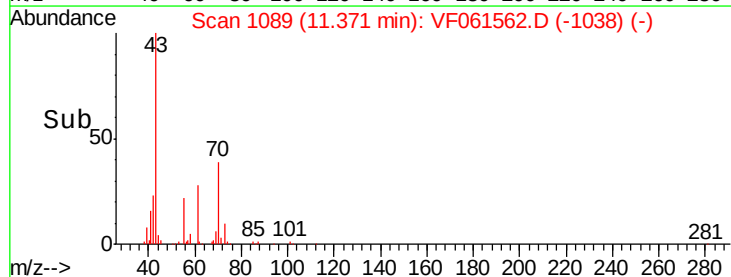
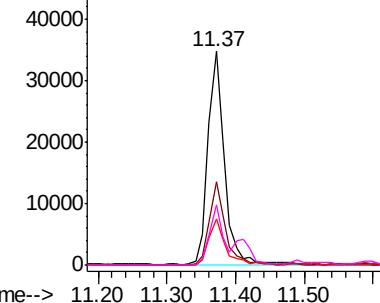


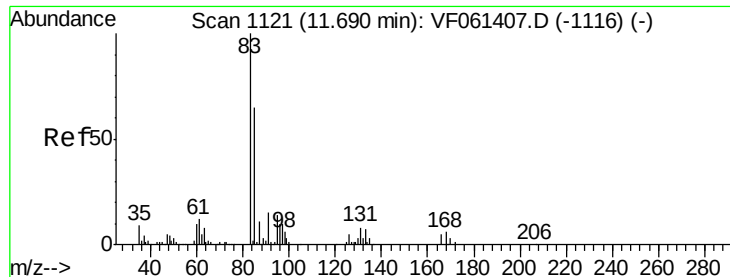
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 19.866 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

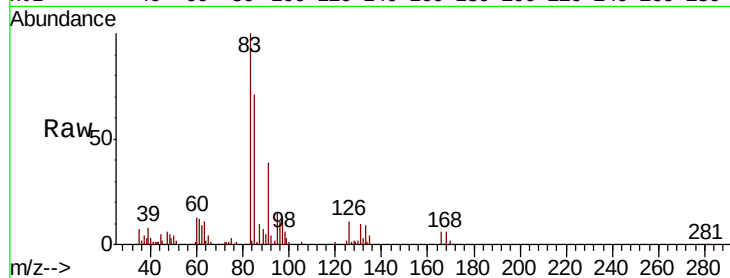
Tgt Ion: 83 Resp: 39458

Ion Ratio Lower Upper

83 100

131 9.9 4.0 12.2

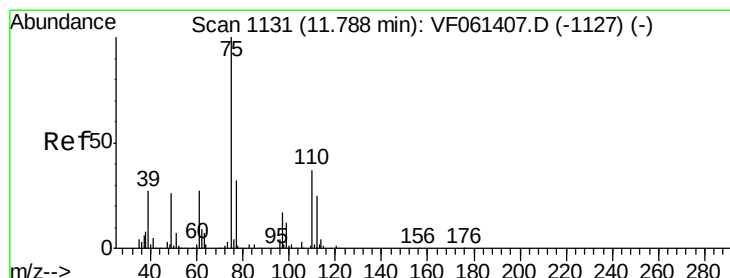
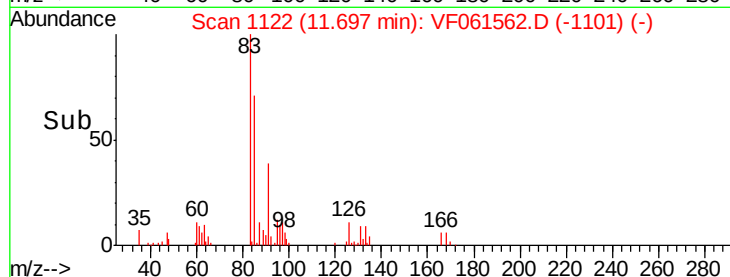
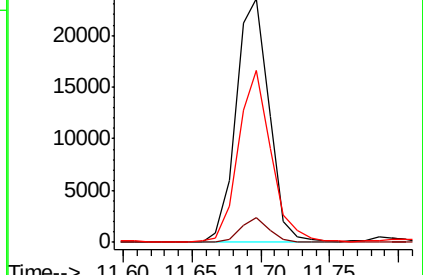
85 70.8 32.7 98.1



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: 20.392 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF061562.D

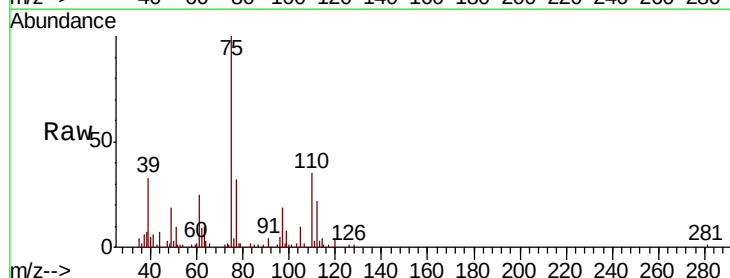
Acq: 8 Feb 2019 17:19

Tgt Ion: 75 Resp: 29103

Ion Ratio Lower Upper

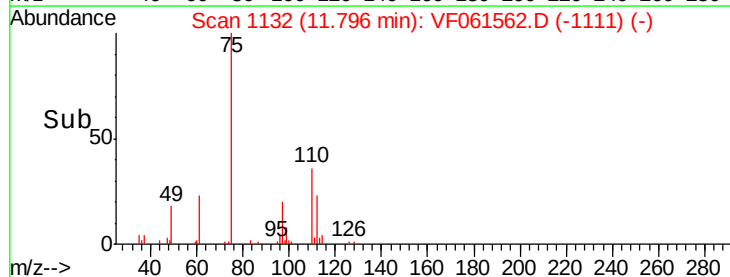
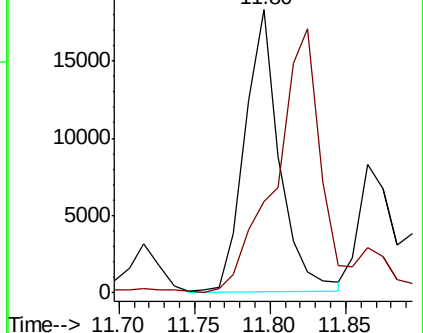
75 100

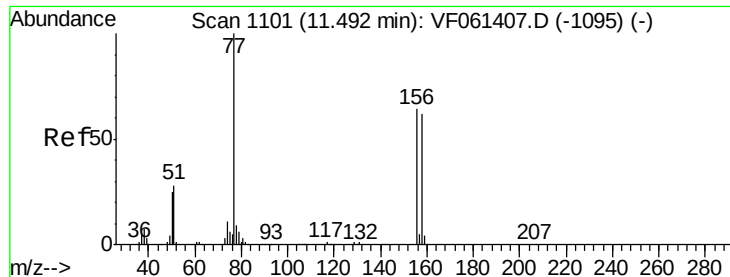
77 32.3 16.1 48.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.114 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

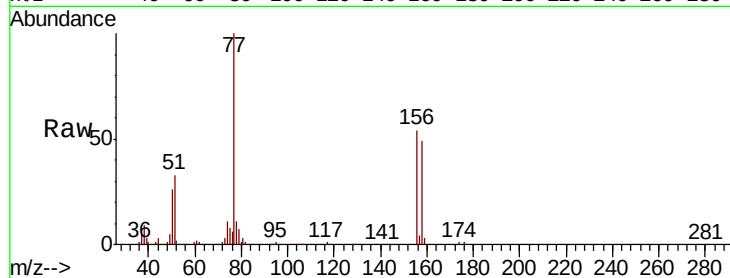
Tgt Ion:156 Resp: 49715

Ion Ratio Lower Upper

156 100

77 186.9 78.3 234.9

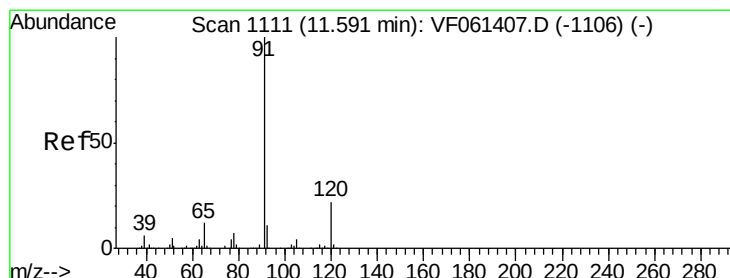
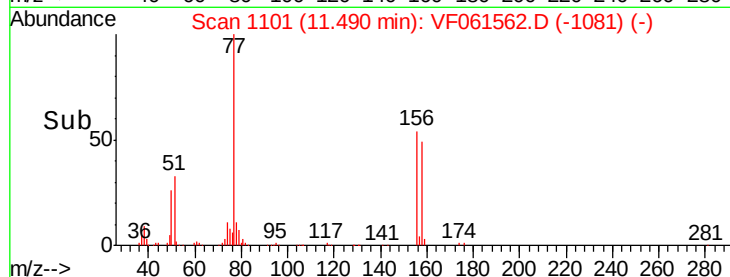
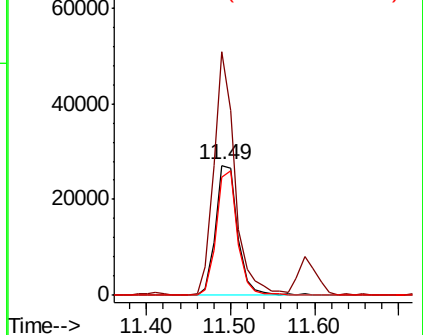
158 90.9 48.9 146.7



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: 19.526 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF061562.D

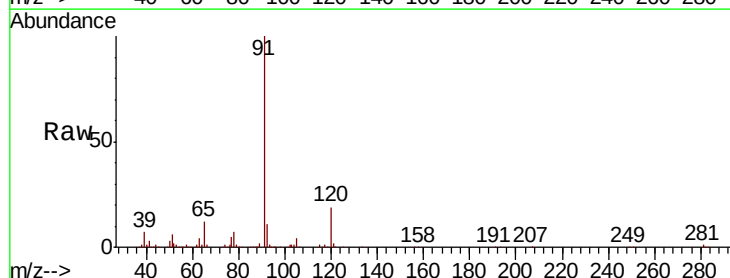
Acq: 8 Feb 2019 17:19

Tgt Ion: 91 Resp: 283901

Ion Ratio Lower Upper

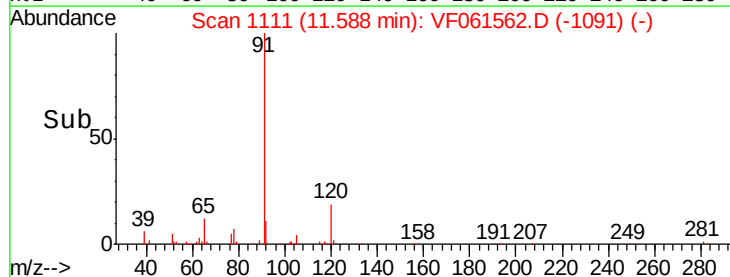
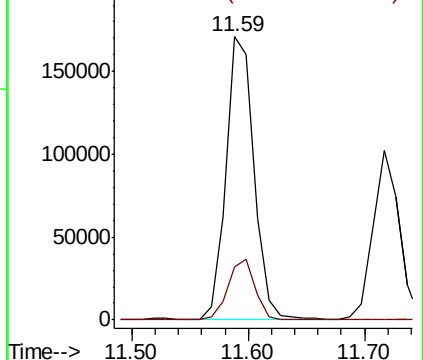
91 100

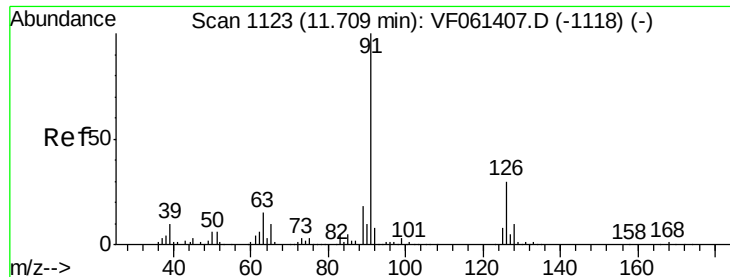
120 18.5 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

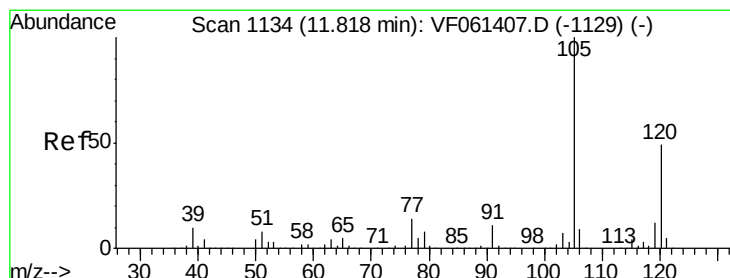
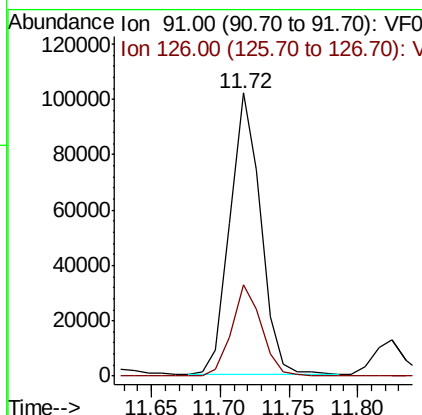
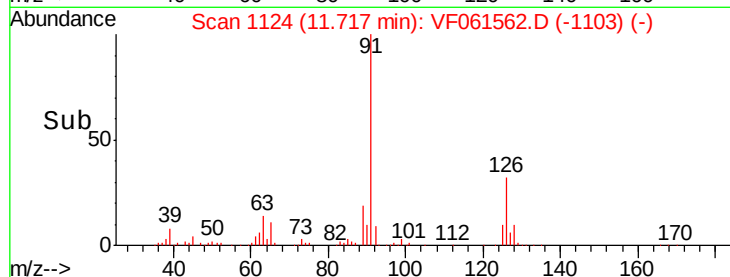
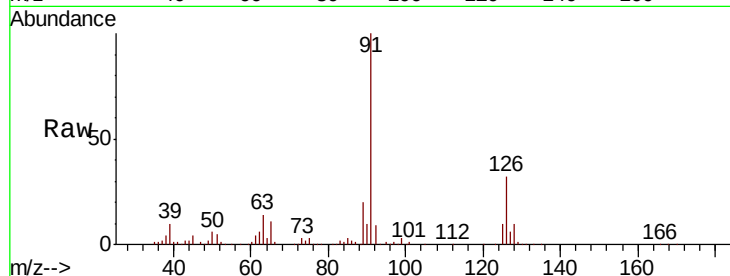




#79
 2-Chlorotoluene
 Concen: 20.530 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

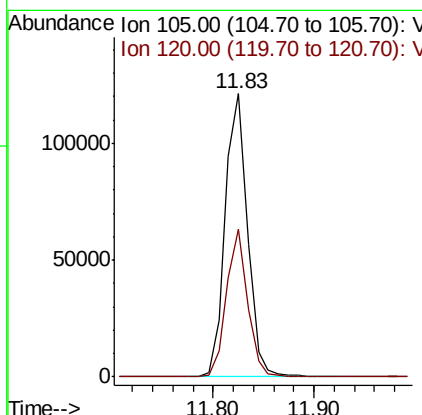
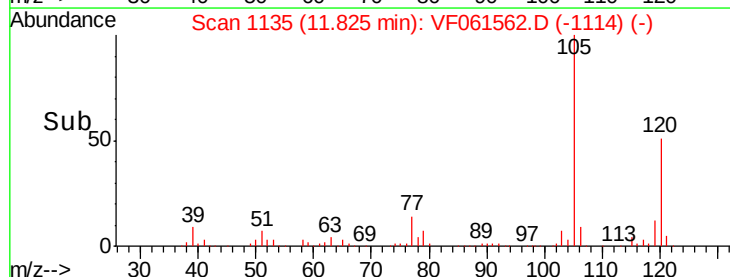
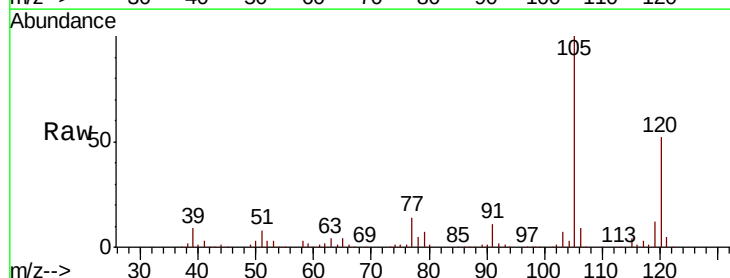
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

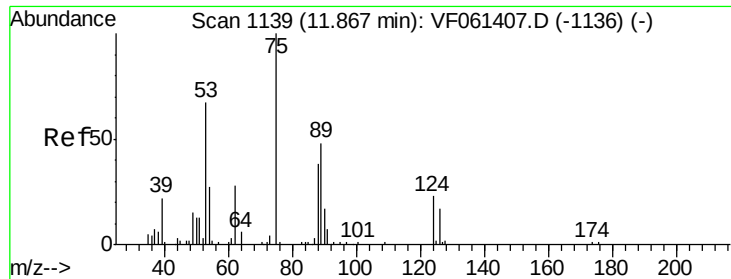
Tgt Ion: 91 Resp: 158809
 Ion Ratio Lower Upper
 91 100
 126 32.2 15.0 45.1



#80
 1,3,5-Trimethylbenzene
 Concen: 20.759 ug/l
 RT: 11.83 min Scan# 1135
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion: 105 Resp: 186777
 Ion Ratio Lower Upper
 105 100
 120 52.2 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 27.078 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

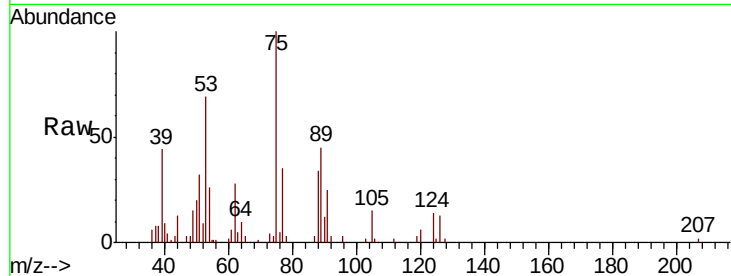
Tgt Ion: 75 Resp: 16799

Ion Ratio Lower Upper

75 100

53 68.9 57.8 86.6

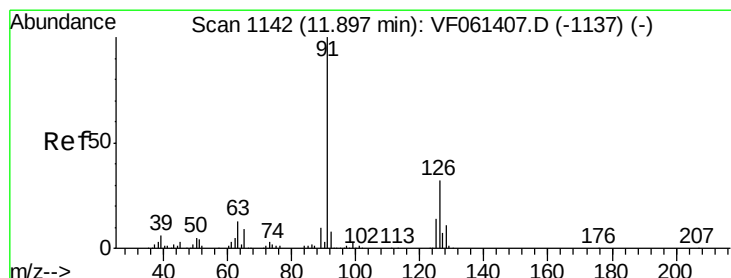
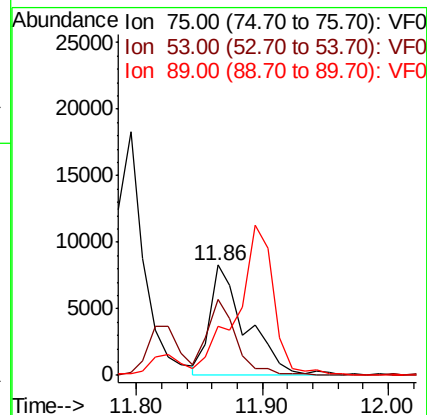
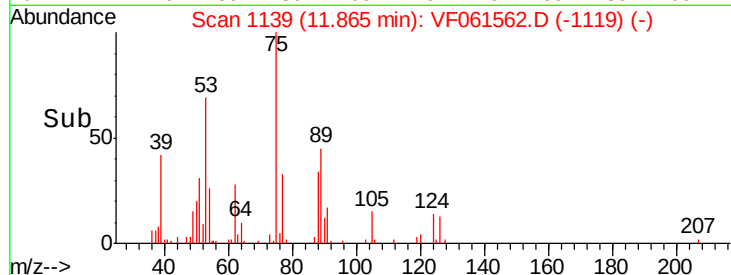
89 45.0 40.7 61.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 21.221 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF061562.D

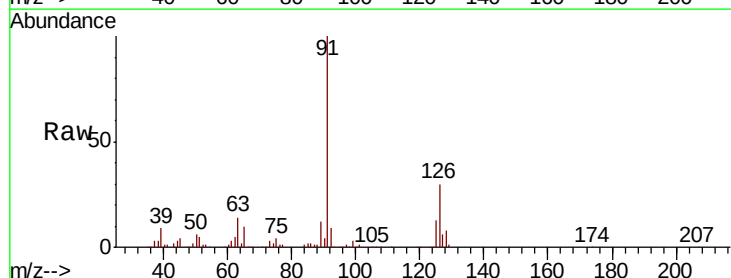
Acq: 8 Feb 2019 17:19

Tgt Ion: 91 Resp: 165648

Ion Ratio Lower Upper

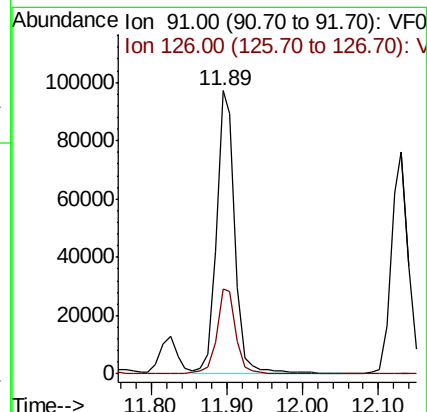
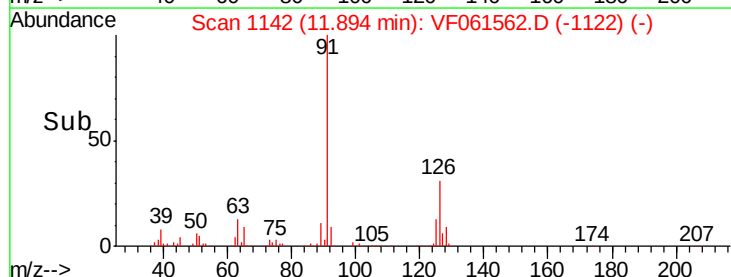
91 100

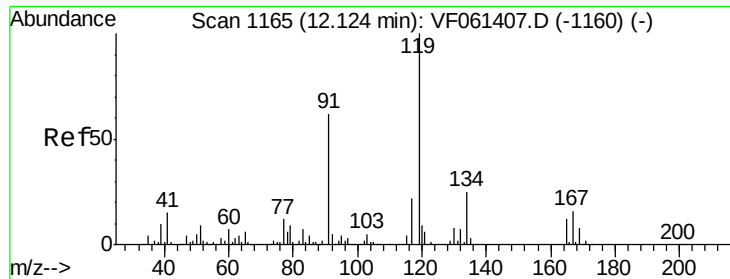
126 30.2 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

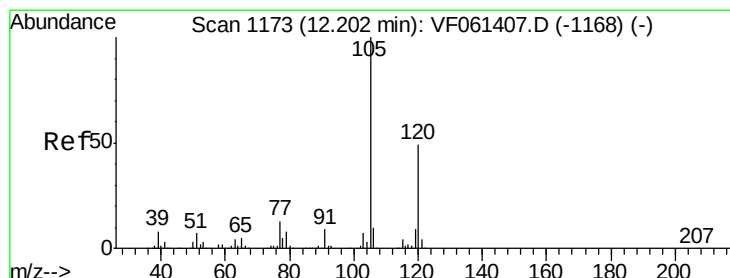
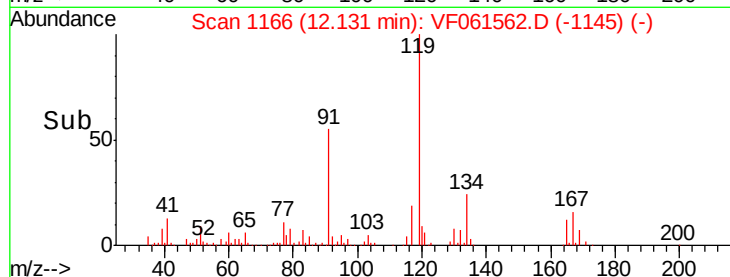
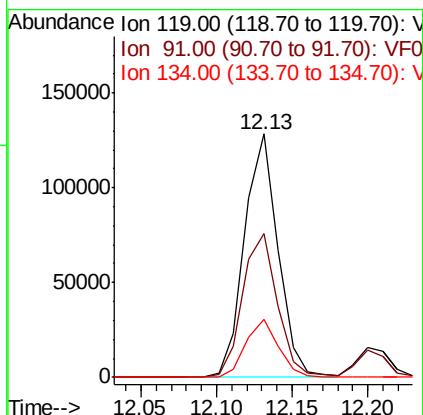
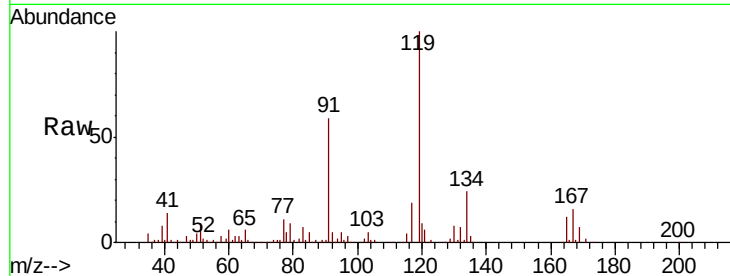




#83
 tert-Butylbenzene
 Concen: 21.355 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

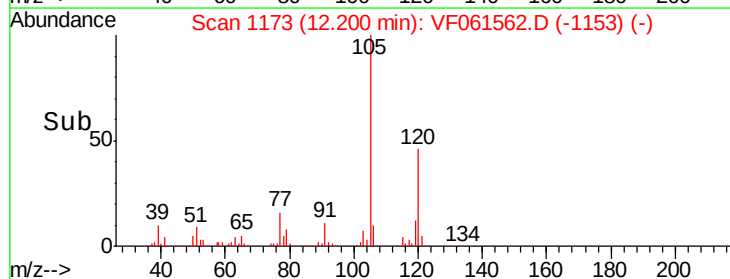
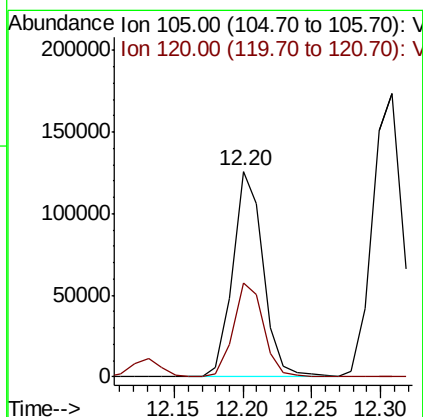
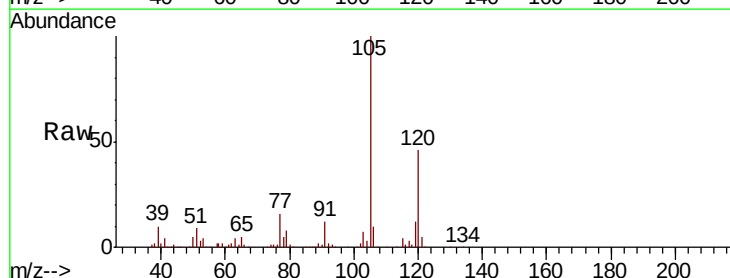
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

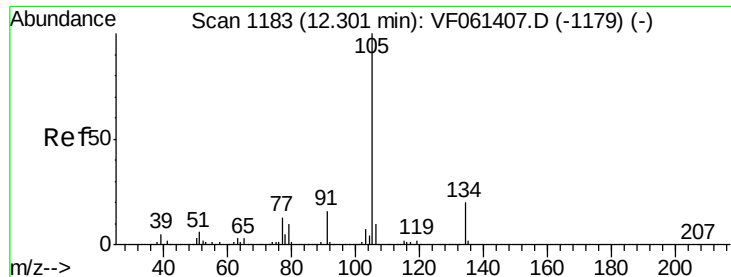
Tgt Ion:119 Resp: 198870
 Ion Ratio Lower Upper
 119 100
 91 59.2 31.3 93.8
 134 24.1 12.4 37.0



#84
 1,2,4-Trimethylbenzene
 Concen: 20.847 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion:105 Resp: 193211
 Ion Ratio Lower Upper
 105 100
 120 45.7 24.9 74.6





#85

sec-Butylbenzene

Concen: 21.125 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

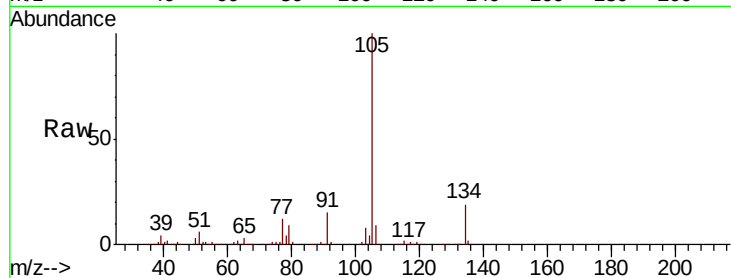
VF0208SBSD01

Tgt Ion:105 Resp: 267157

Ion Ratio Lower Upper

105 100

134 18.7 10.0 30.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

200000

150000

100000

50000

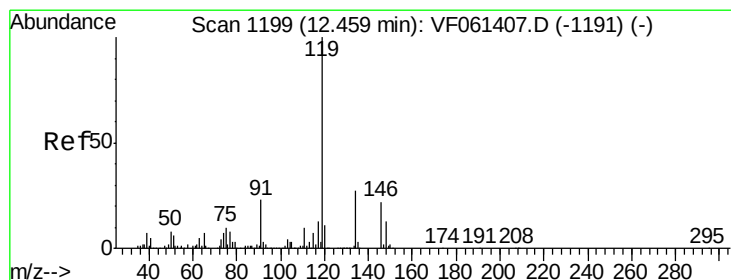
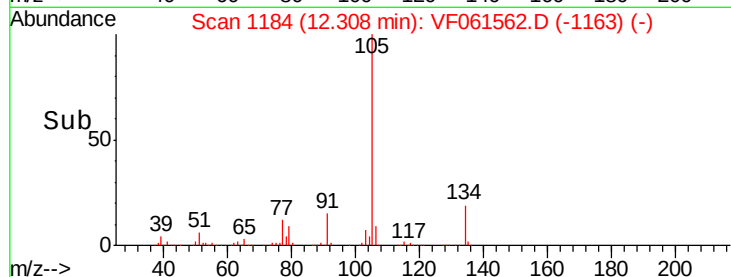
0

12.20

12.30

12.40

Time-->



#86

p-Isopropyltoluene

Concen: 21.271 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

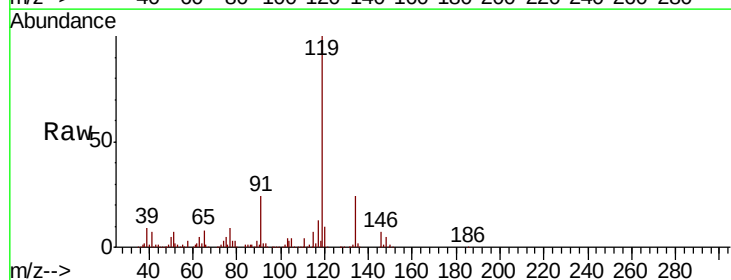
Tgt Ion:119 Resp: 220830

Ion Ratio Lower Upper

119 100

134 24.4 13.4 40.2

91 24.3 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): V

200000

150000

100000

50000

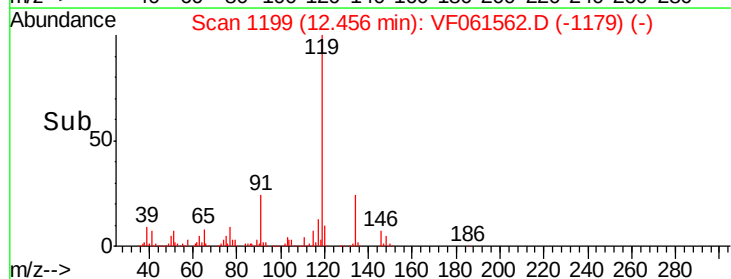
0

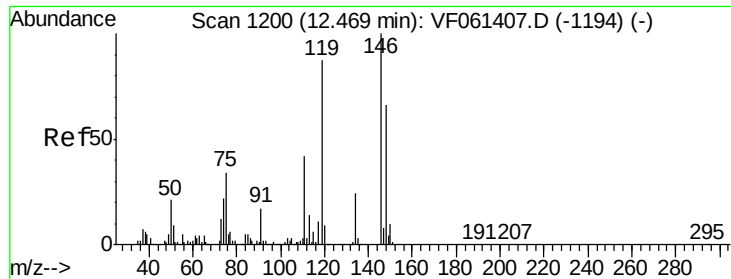
12.40

12.50

12.60

Time-->

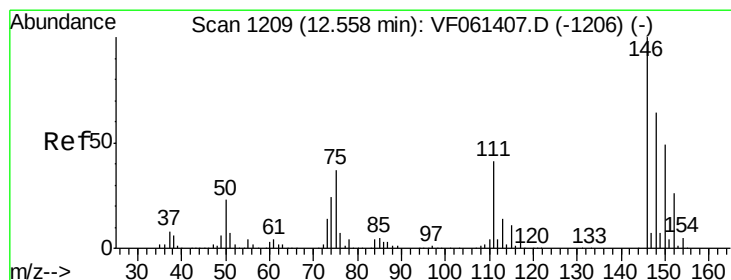
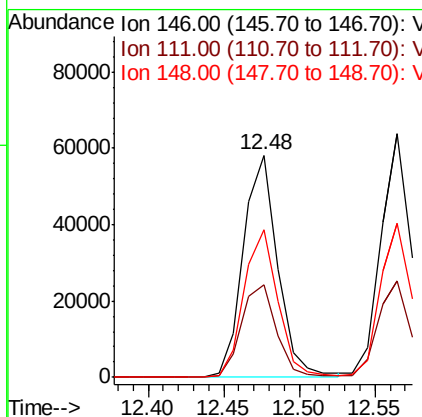
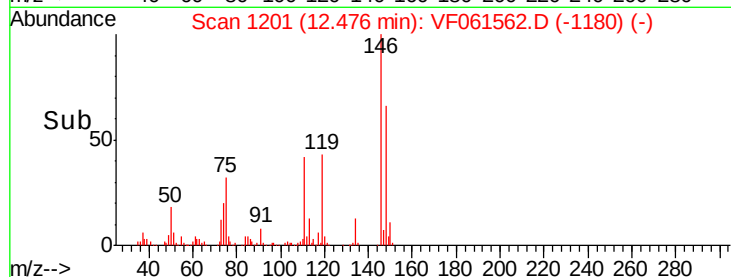
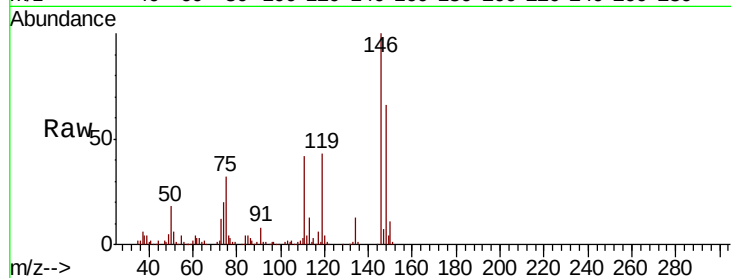




#87
 1,3-Dichlorobenzene
 Concen: 18.670 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

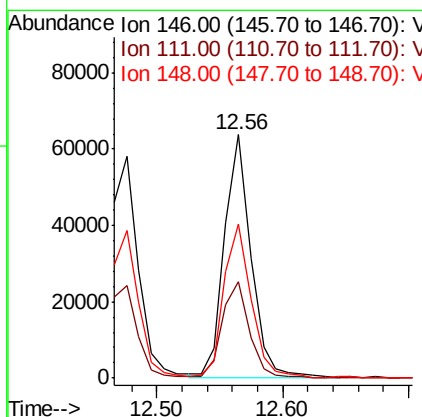
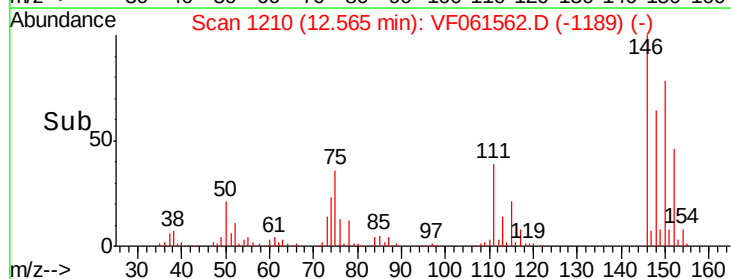
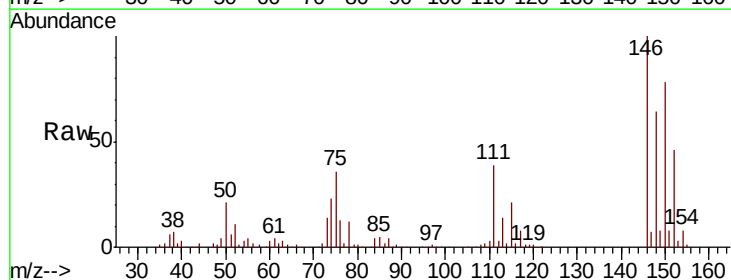
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

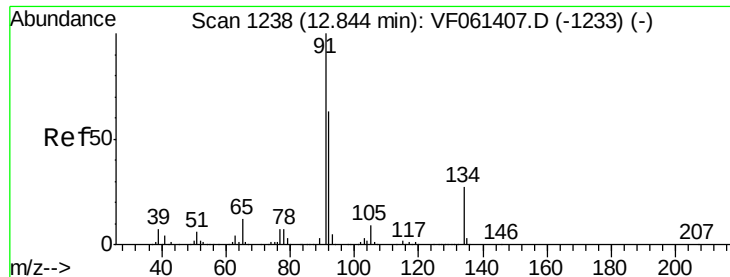
Tgt Ion:146 Resp: 92497
 Ion Ratio Lower Upper
 146 100
 111 41.7 21.1 63.4
 148 66.3 32.9 98.6



#88
 1,4-Dichlorobenzene
 Concen: 20.873 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion:146 Resp: 92873
 Ion Ratio Lower Upper
 146 100
 111 39.4 20.8 62.2
 148 63.5 32.1 96.5





#89

n-Butylbenzene

Concen: 21.371 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

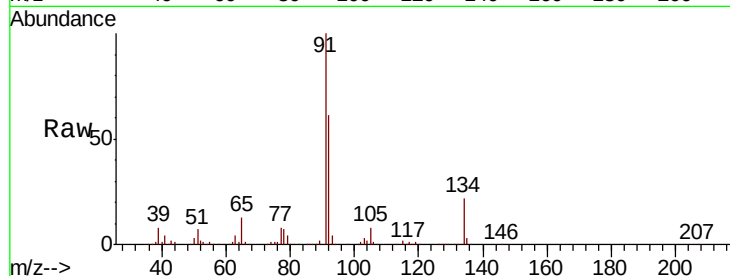
Tgt Ion: 91 Resp: 228810

Ion Ratio Lower Upper

91 100

92 61.1 31.6 94.7

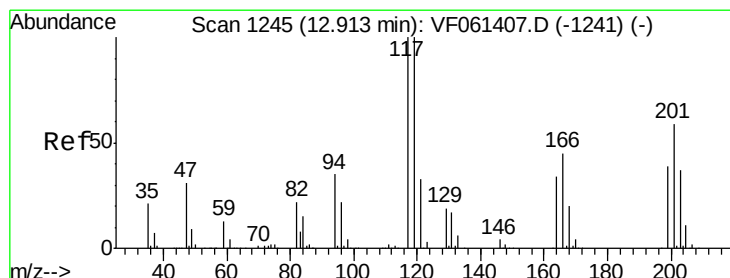
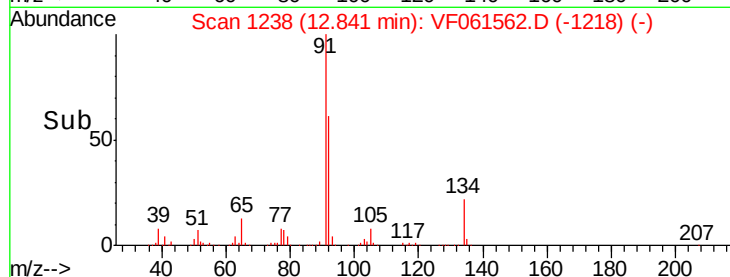
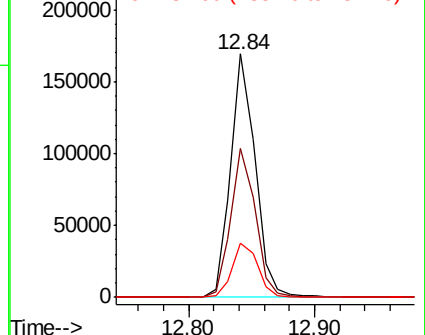
134 22.1 13.6 40.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.760 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. 0.01 min

Lab File: VF061562.D

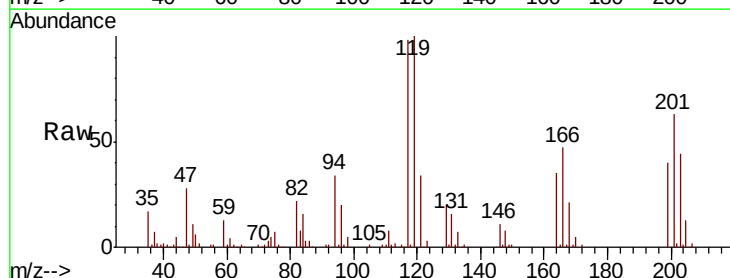
Acq: 8 Feb 2019 17:19

Tgt Ion: 117 Resp: 50804

Ion Ratio Lower Upper

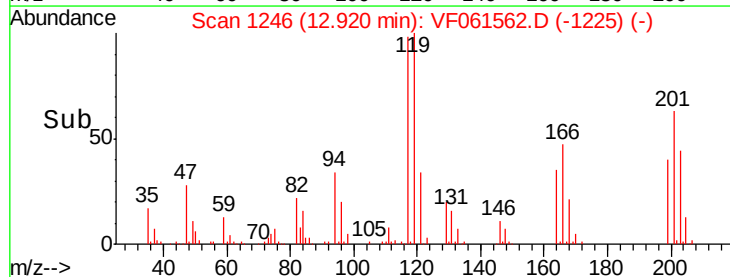
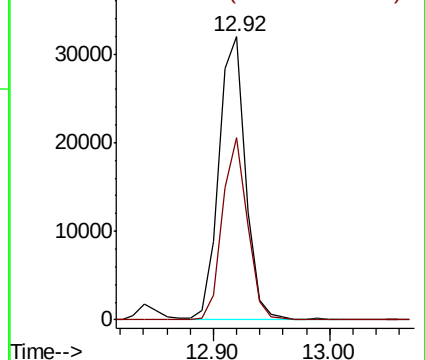
117 100

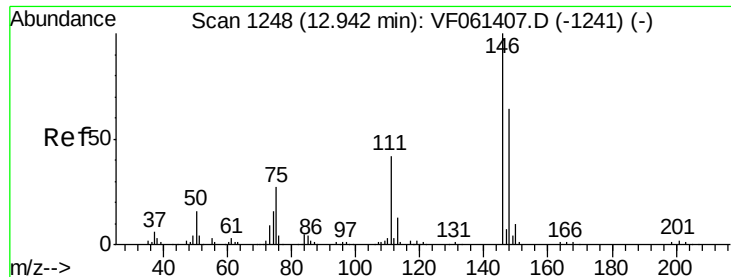
201 64.2 29.3 87.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 20.902 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

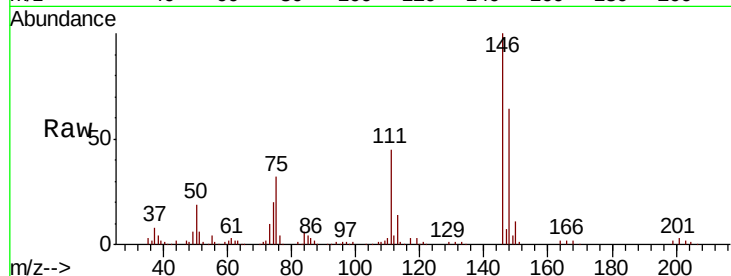
Tgt Ion:146 Resp: 92066

Ion Ratio Lower Upper

146 100

111 44.5 21.1 63.3

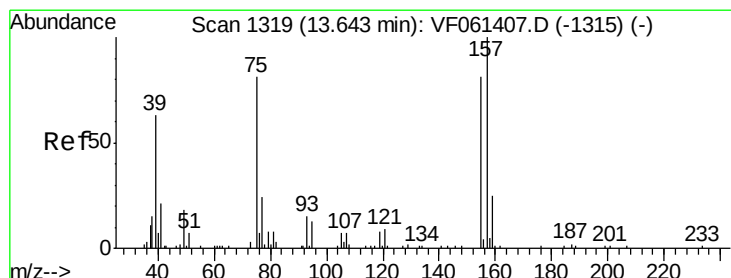
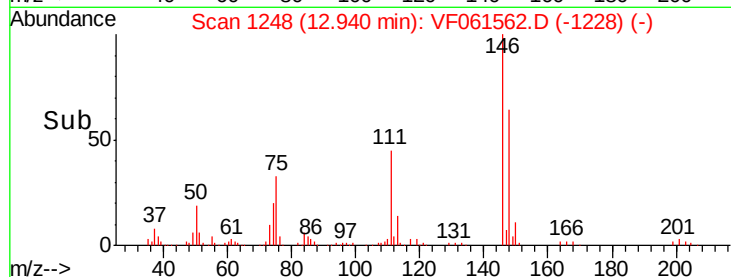
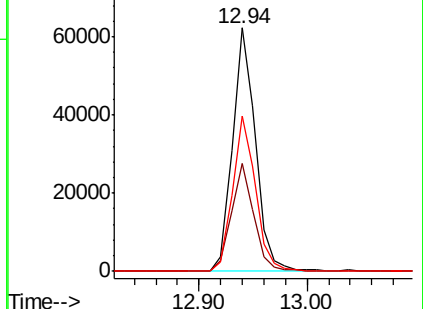
148 64.0 31.9 95.7



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: 19.320 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

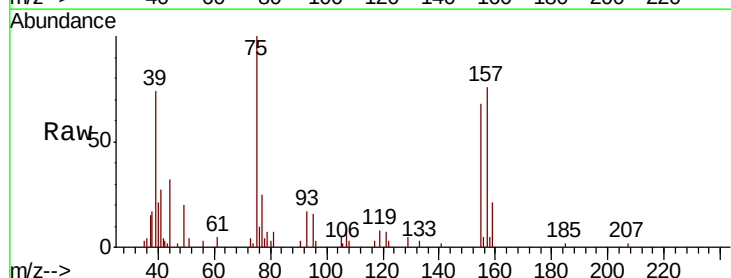
Tgt Ion: 75 Resp: 6806

Ion Ratio Lower Upper

75 100

155 68.4 49.7 149.1

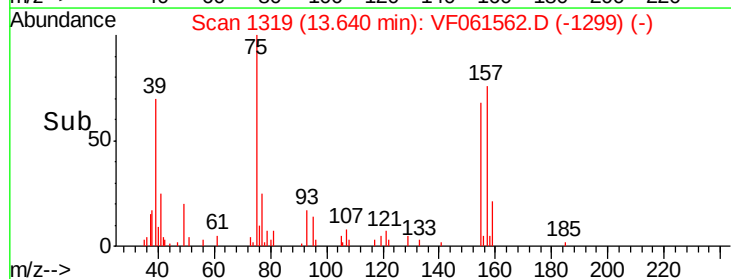
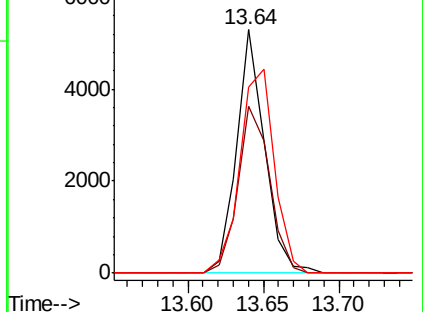
157 76.4 61.4 184.1

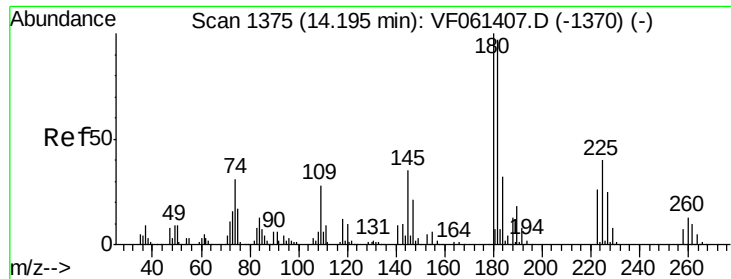


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

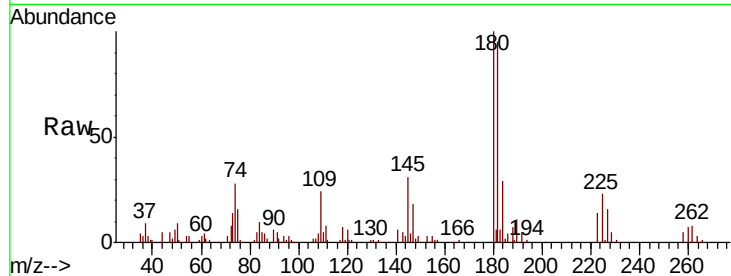




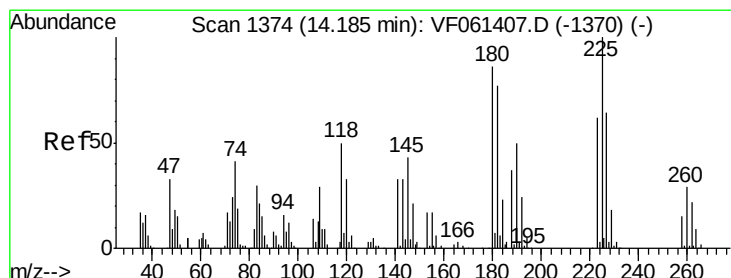
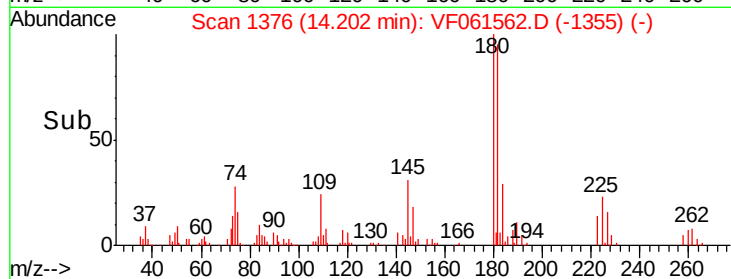
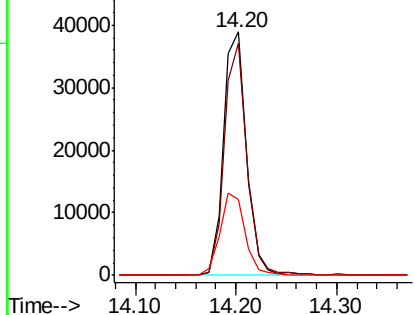
#93
 1,2,4-Trichlorobenzene
 Concen: 20.056 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tgt Ion:180 Resp: 61883
 Ion Ratio Lower Upper
 180 100
 182 95.1 48.5 145.6
 145 31.2 17.5 52.6

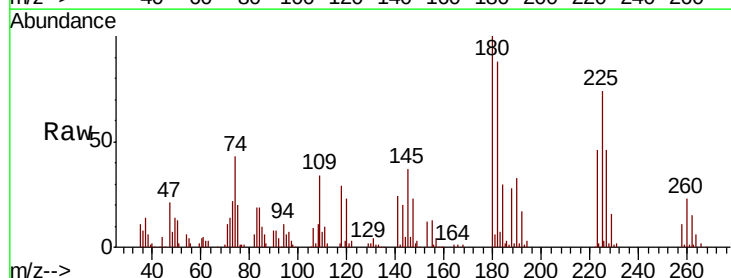


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

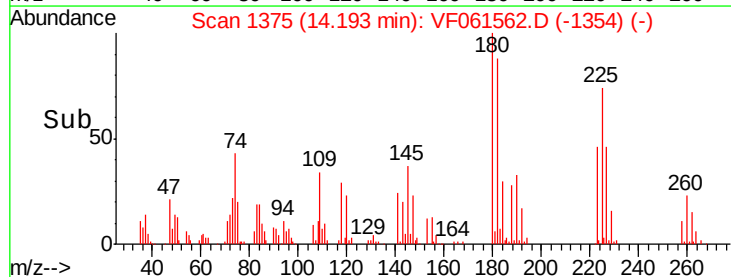
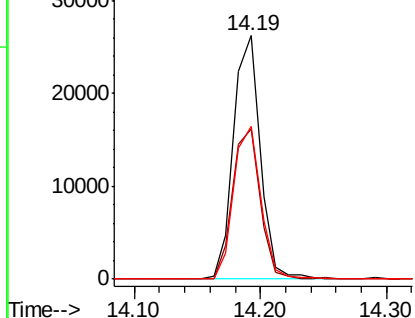


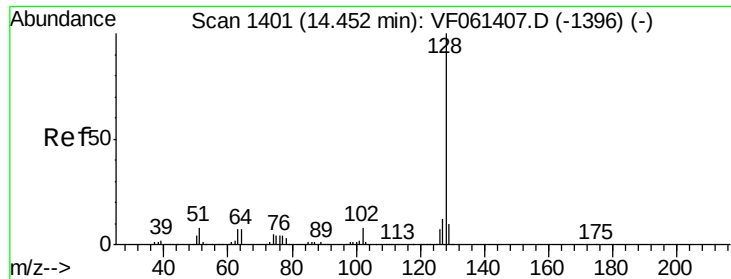
#94
 Hexachlorobutadiene
 Concen: 20.062 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion:225 Resp: 38412
 Ion Ratio Lower Upper
 225 100
 223 61.7 31.1 93.2
 227 62.5 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

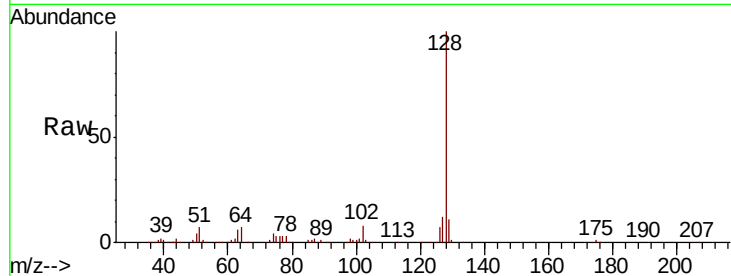




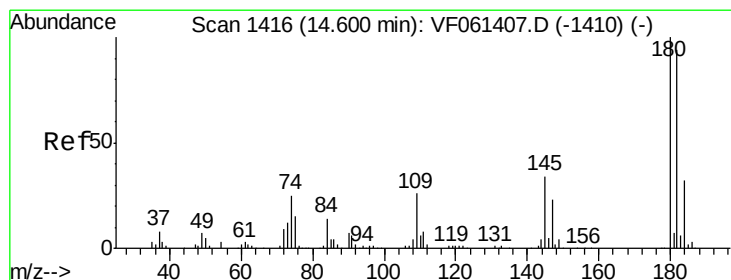
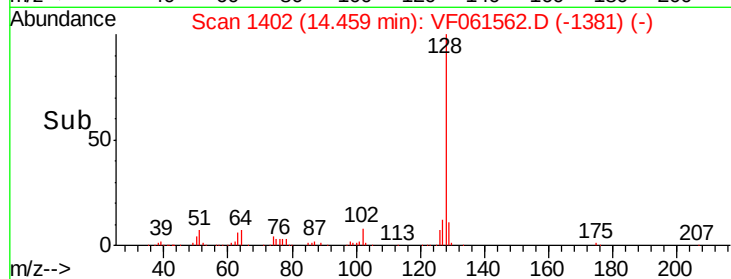
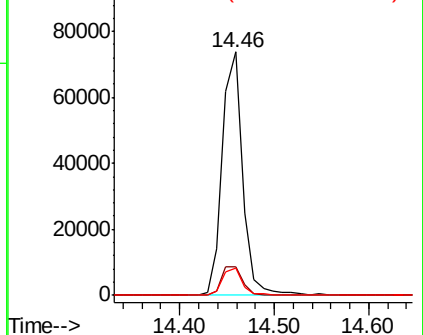
#95
Naphthalene
Concen: 18.912 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tgt Ion:128 Resp: 110870
Ion Ratio Lower Upper
128 100
127 12.0 9.5 14.3
129 11.1 8.4 12.6

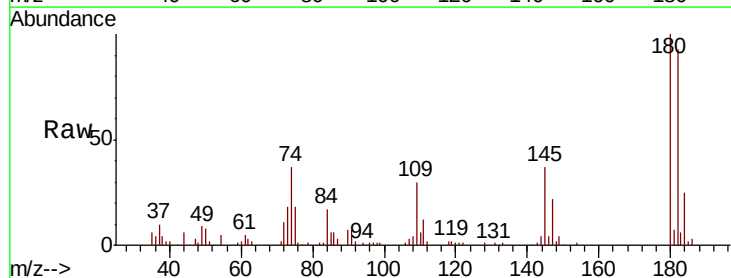


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.487 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion:180 Resp: 55661
Ion Ratio Lower Upper
180 100
182 92.5 47.0 141.2
145 36.9 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

