

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF022719\
 Data File : VF061765.D
 Acq On : 27 Feb 2019 14:40
 Operator : VA/AP
 Sample : VF0227SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 28 00:30:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	320787	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	452396	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	409125	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	231417	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	136420	57.99	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	115.98%	
35) Dibromofluoromethane	4.10	113	192819	57.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	114.78%	
50) Toluene-d8	7.54	98	551883	57.14	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	114.28%	
62) 4-Bromofluorobenzene	11.40	95	221769	56.75	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	88462	24.013	ug/l	97
3) Chloromethane	1.09	50	85755	22.186	ug/l	98
4) Vinyl Chloride	1.13	62	82234	22.886	ug/l	99
5) Bromomethane	1.33	94	52123	21.077	ug/l	96
6) Chloroethane	1.39	64	37565	21.214	ug/l	99
7) Trichlorofluoromethane	1.49	101	100207	23.122	ug/l	99
8) Diethyl Ether	1.62	74	22388	20.498	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.83	101	65720	21.020	ug/l #	87
10) Methyl Iodide	1.90	142	101454	16.988	ug/l	98
11) Tert butyl alcohol	2.56	59	14078	103.408	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	58551	21.300	ug/l	95
13) Acrolein	1.99	56	12800	74.808	ug/l	95
14) Allyl chloride	2.09	41	67486	20.007	ug/l	100
15) Acrylonitrile	2.93	53	41600	86.147	ug/l	96
16) Acetone	2.24	43	56172	111.294	ug/l	99
17) Carbon Disulfide	1.75	76	27161	3.143	ug/l	95
18) Methyl Acetate	2.34	43	26729	23.508	ug/l	95
19) Methyl tert-butyl Ether	2.42	73	96081	20.452	ug/l	99
20) Methylene Chloride	2.25	84	34877	10.926	ug/l	97
21) trans-1,2-Dichloroethene	2.30	96	63119	21.123	ug/l	100
22) Diisopropyl ether	2.79	45	171856	21.225	ug/l	97
23) Vinyl Acetate	3.17	43	392879	99.343	ug/l	98
24) 1,1-Dichloroethane	2.86	63	104545	21.336	ug/l	97
25) 2-Butanone	4.32	43	109429	99.259	ug/l	100
26) 2,2-Dichloropropane	3.59	77	48816	23.520	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	82194	20.956	ug/l	99
28) Bromochloromethane	3.69	49	45769	19.467	ug/l	93
29) Tetrahydrofuran	4.05	42	46589	92.978	ug/l	99
30) Chloroform	3.84	83	120034	21.541	ug/l	100
31) Cyclohexane	3.68	56	67491	12.723	ug/l	97
32) 1,1,1-Trichloroethane	4.08	97	74986	20.543	ug/l	98
36) 1,1-Dichloropropene	4.26	75	94463	21.078	ug/l	90
37) Ethyl Acetate	4.09	43	39285	18.873	ug/l #	56
38) Carbon Tetrachloride	3.97	117	71569	23.127	ug/l	95

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Quant Time: Feb 28 00:30:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	108294	20.432	ug/l	92
40) Benzene	4.62	78	264381	22.554	ug/l	97
41) Methacrylonitrile	4.73	41	23081	21.682	ug/l	93
42) 1,2-Dichloroethane	4.93	62	61101	21.791	ug/l	93
43) Isopropyl Acetate	6.94	43	50485	20.490	ug/l #	98
44) Trichloroethene	5.49	130	82739	21.827	ug/l	97
45) 1,2-Dichloropropane	6.22	63	64097	22.621	ug/l	99
46) Dibromomethane	6.07	93	37845	21.693	ug/l	94
47) Bromodichloromethane	6.37	83	84065	22.004	ug/l	96
48) Methyl methacrylate	6.70	41	31529	21.264	ug/l	91
49) 1,4-Dioxane	6.70	88	5568	399.464	ug/l #	86
51) 4-Methyl-2-Pentanone	8.24	43	178002	101.106	ug/l	99
52) Toluene	7.61	92	154763	21.769	ug/l	99
53) t-1,3-Dichloropropene	8.26	75	73310	23.056	ug/l	96
54) cis-1,3-Dichloropropene	7.28	75	96914	22.883	ug/l	94
55) 1,1,2-Trichloroethane	8.48	97	43717	20.929	ug/l	92
56) Ethyl methacrylate	8.61	69	50725	21.812	ug/l	99
57) 1,3-Dichloropropane	8.83	76	75374	21.619	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.27	63	39042	97.302	ug/l #	87
59) 2-Hexanone	9.47	43	133139	107.884	ug/l	99
60) Dibromochloromethane	8.70	129	63524	21.850	ug/l	95
61) 1,2-Dibromoethane	8.97	107	49178	21.707	ug/l	96
64) Tetrachloroethene	8.14	164	71639	21.422	ug/l	95
65) Chlorobenzene	9.78	112	178537	21.505	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.91	131	69188	21.268	ug/l	97
67) Ethyl Benzene	9.89	91	302068	21.879	ug/l	98
68) m/p-Xylenes	10.11	106	230797	43.680	ug/l	96
69) o-Xylene	10.70	106	120582	21.387	ug/l	90
70) Styrene	10.78	104	172883	21.675	ug/l	98
71) Bromoform	10.76	173	35976	20.365	ug/l	98
73) Isopropylbenzene	11.11	105	352864	21.416	ug/l	100
74) N-amyl acetate	11.36	43	79700	20.153	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	57522	19.487	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	39820	19.842	ug/l	99
77) Bromobenzene	11.48	156	85496	21.004	ug/l	98
78) n-propylbenzene	11.58	91	416259	22.016	ug/l	100
79) 2-Chlorotoluene	11.70	91	225680	21.313	ug/l	92
80) 1,3,5-Trimethylbenzene	11.81	105	292042	22.177	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.86	75	23571	24.499	ug/l	96
82) 4-Chlorotoluene	11.89	91	229811	20.909	ug/l	95
83) tert-Butylbenzene	12.12	119	317603	21.775	ug/l	97
84) 1,2,4-Trimethylbenzene	12.19	105	293166	22.408	ug/l	98
85) sec-Butylbenzene	12.29	105	396954	21.046	ug/l	98
86) p-Isopropyltoluene	12.45	119	327852	20.711	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	162521	20.481	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	164077	21.500	ug/l	99
89) n-Butylbenzene	12.84	91	332660	22.255	ug/l	98
90) Hexachloroethane	12.90	117	80650	21.907	ug/l	89
91) 1,2-Dichlorobenzene	12.93	146	157824	20.910	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8470	18.098	ug/l	62

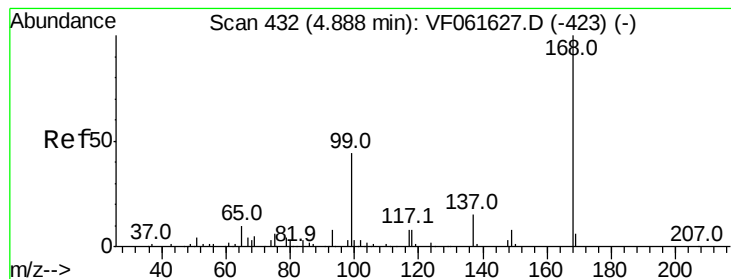
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022719\
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Quant Time: Feb 28 00:30:58 2019
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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	110190	20.368	ug/l	96
94) Hexachlorobutadiene	14.18	225	71293	21.337	ug/l	99
95) Naphthalene	14.44	128	178994	18.910	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	98767	19.890	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

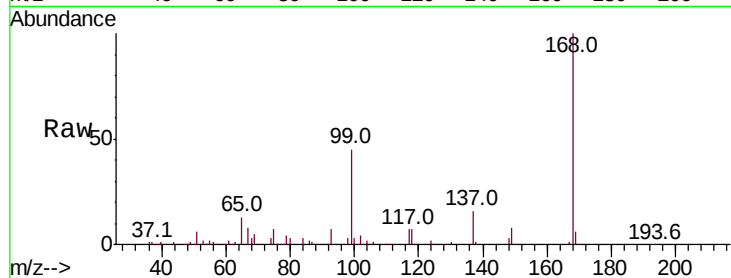
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 320787

Ion Ratio Lower Upper

168 100

99 44.8 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

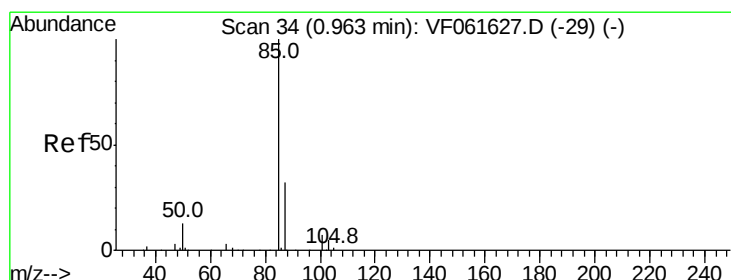
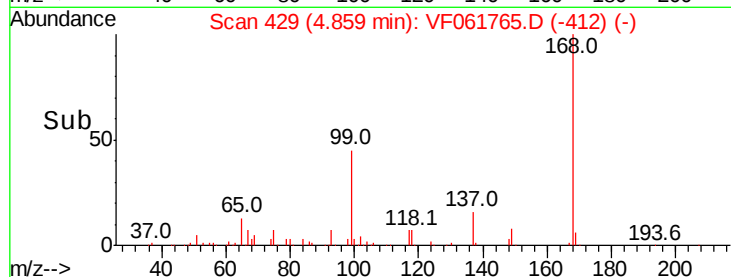
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 24.013 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061765.D

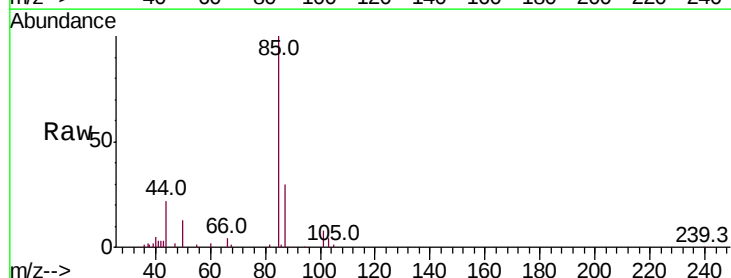
Acq: 27 Feb 2019 14:40

Tgt Ion: 85 Resp: 88462

Ion Ratio Lower Upper

85 100

87 30.3 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

30000

25000

20000

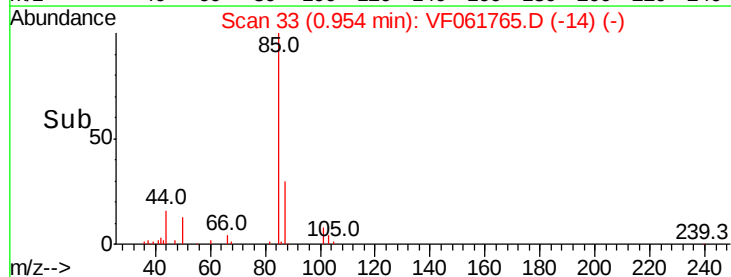
15000

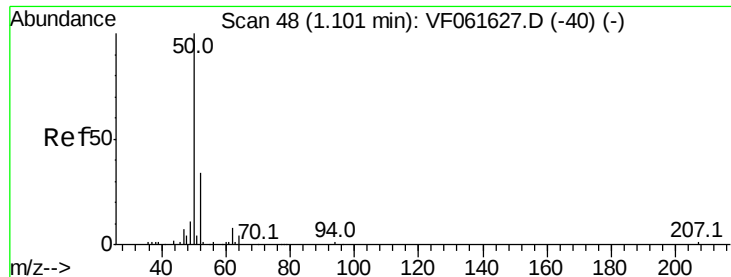
10000

5000

0

Time-->





#3

Chloromethane

Concen: 22.186 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

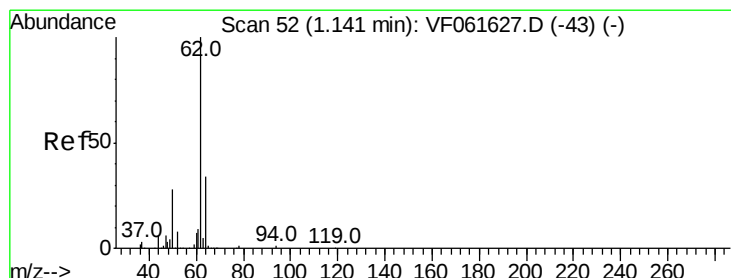
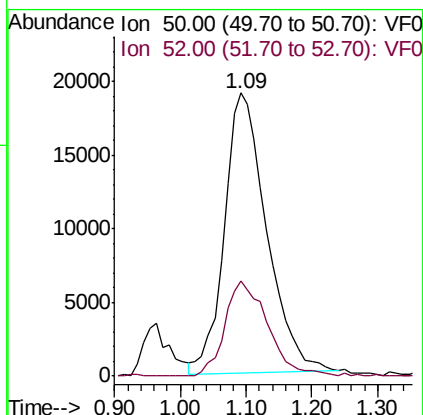
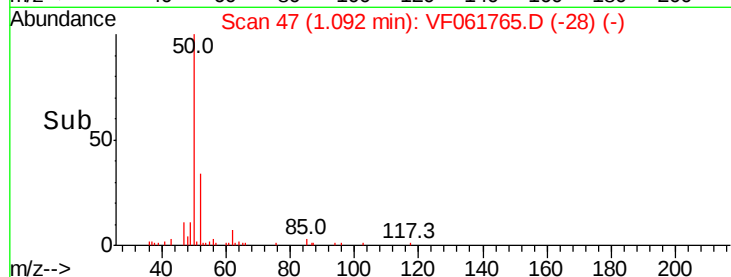
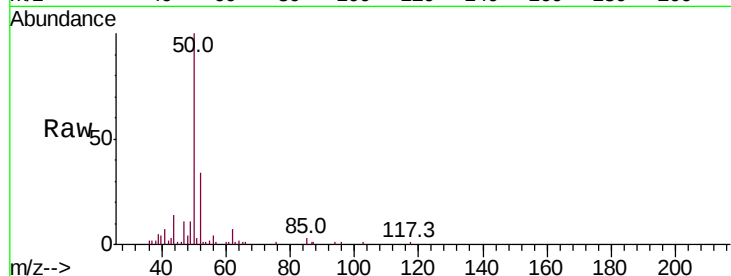
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 85755

Ion Ratio Lower Upper

50 100

52 33.8 26.2 39.4



#4

Vinyl Chloride

Concen: 22.886 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061765.D

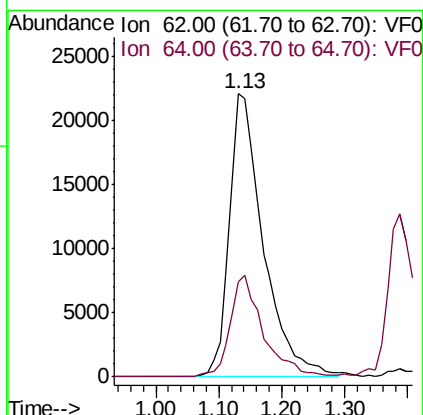
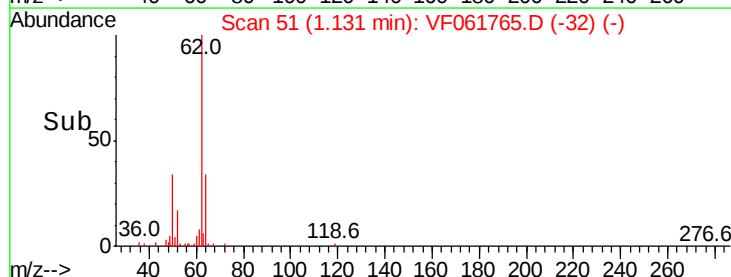
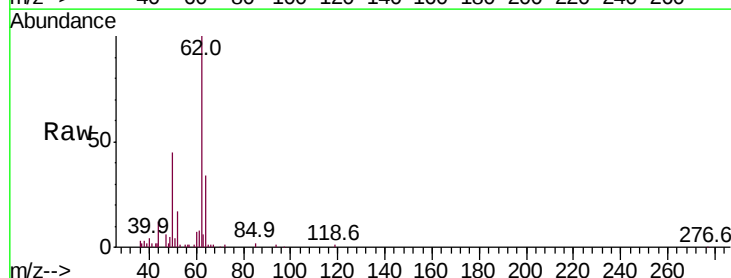
Acq: 27 Feb 2019 14:40

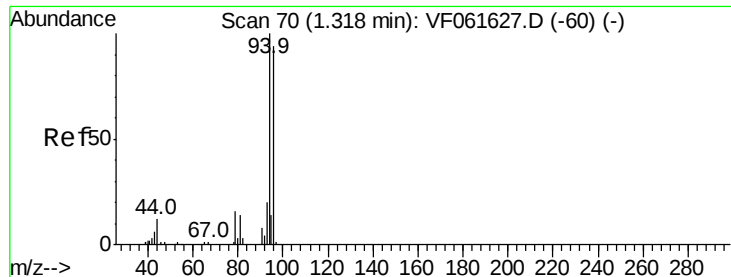
Tgt Ion: 62 Resp: 82234

Ion Ratio Lower Upper

62 100

64 33.8 27.5 41.3





#5

Bromomethane

Concen: 21.077 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

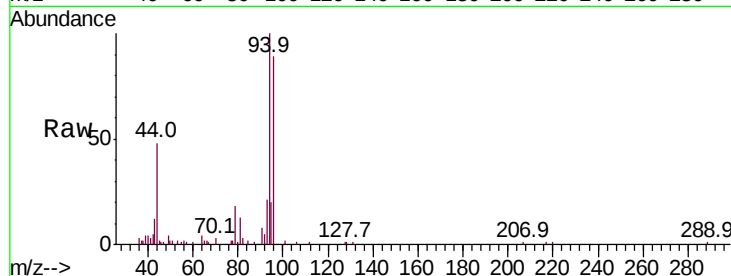
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 52123

Ion Ratio Lower Upper

94 100

96 89.3 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.33

10000

8000

6000

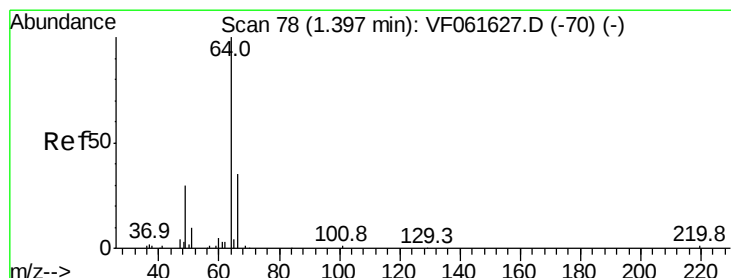
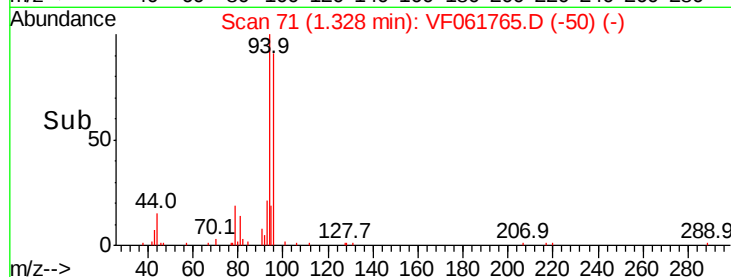
4000

2000

0

1.20 1.30 1.40 1.50

Time-->



#6

Chloroethane

Concen: 21.214 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061765.D

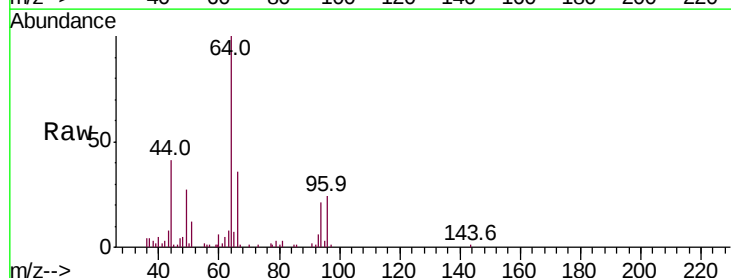
Acq: 27 Feb 2019 14:40

Tgt Ion: 64 Resp: 37565

Ion Ratio Lower Upper

64 100

66 35.7 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.39

15000

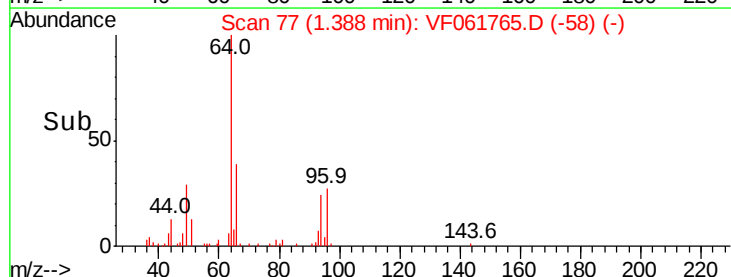
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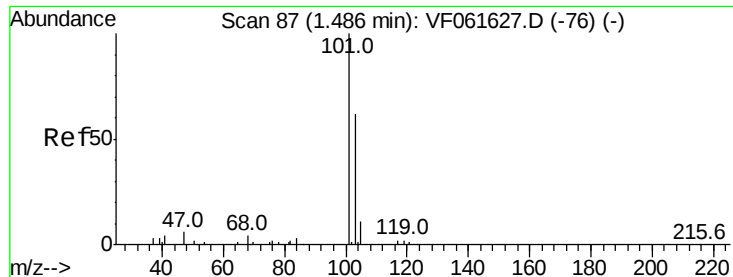
5000

0

1.30 1.40 1.50

Time-->





#7

Trichlorofluoromethane

Concen: 23.122 ug/l

RT: 1.49 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

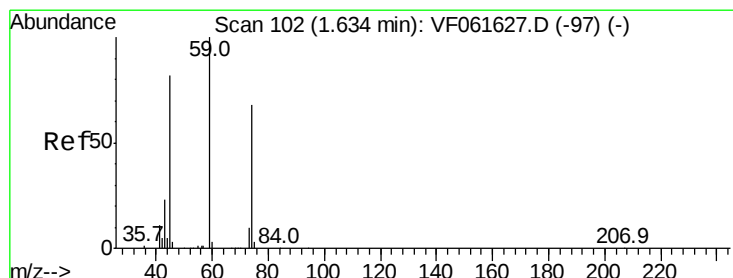
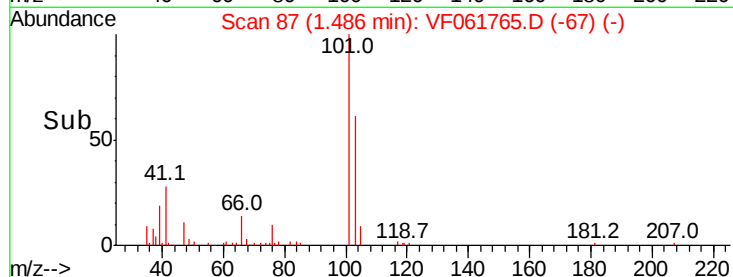
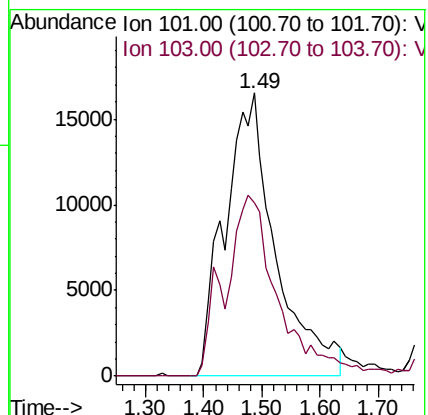
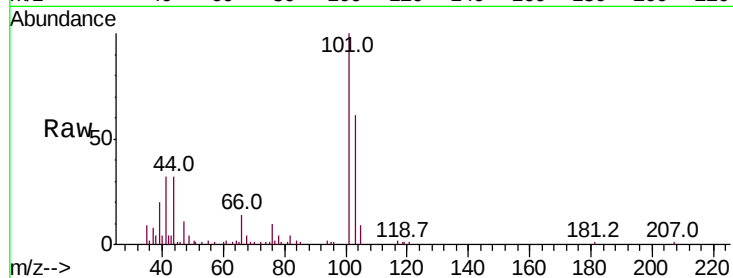
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:101 Resp: 100207

Ion Ratio Lower Upper

101 100

103 61.1 49.3 73.9



#8

Diethyl Ether

Concen: 20.498 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061765.D

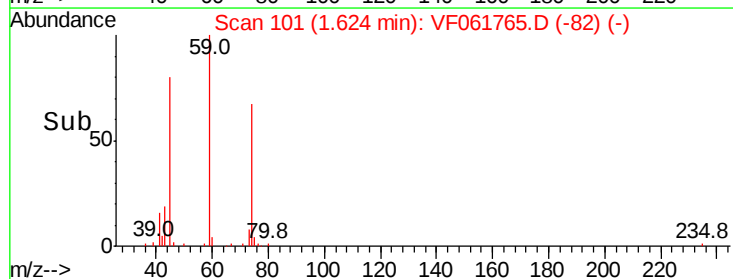
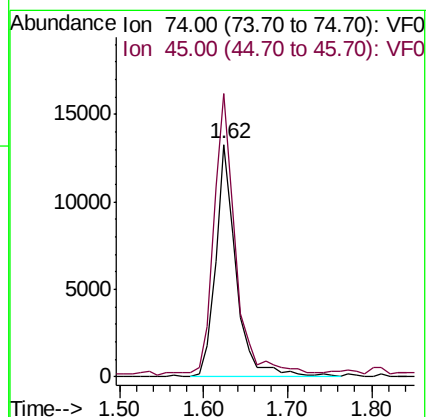
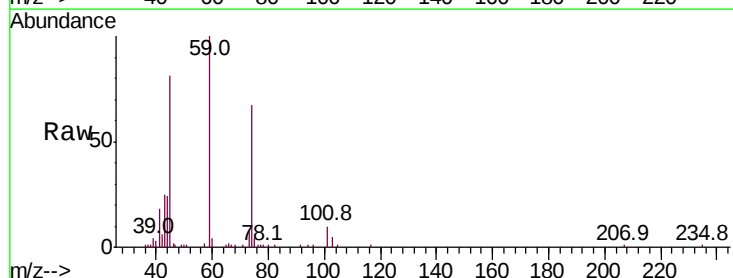
Acq: 27 Feb 2019 14:40

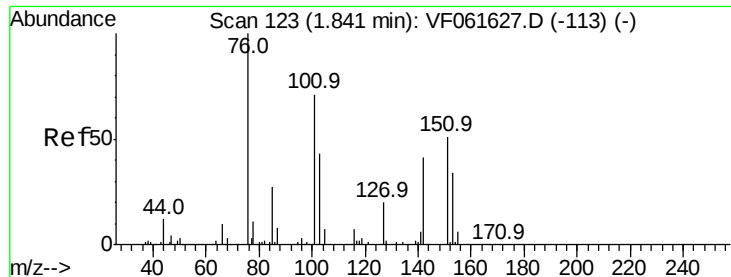
Tgt Ion: 74 Resp: 22388

Ion Ratio Lower Upper

74 100

45 121.8 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.020 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

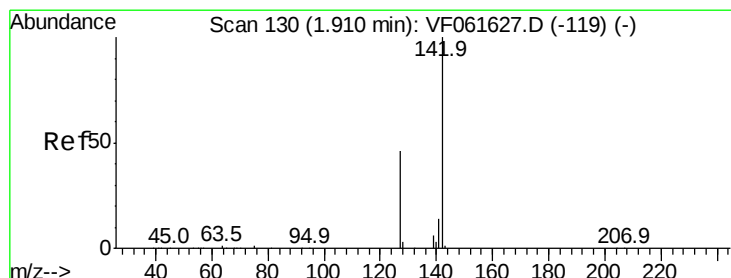
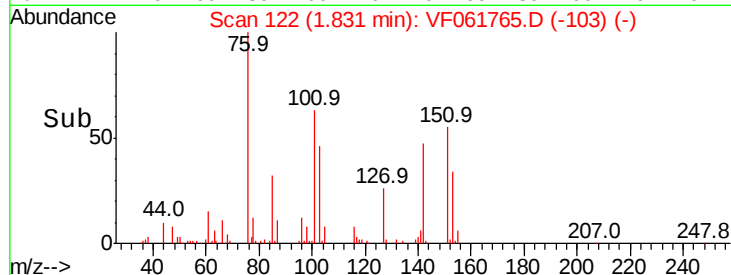
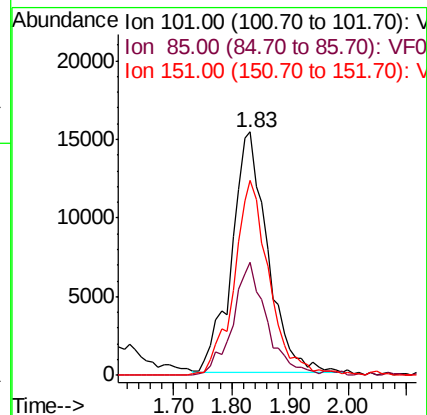
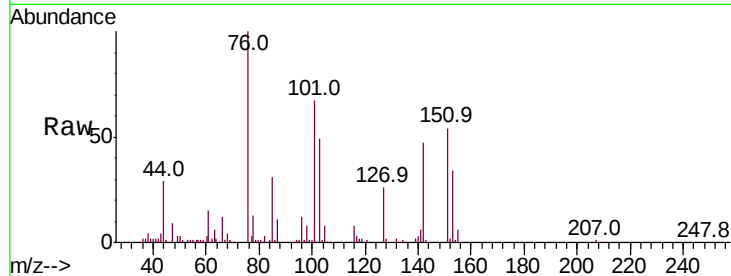
Tot Ion:101 Resp: 65720

Ion Ratio Lower Upper

101 100

85 46.5 29.8 44.6#

151 80.3 56.3 84.5



#10

Methyl Iodide

Concen: 16.988 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

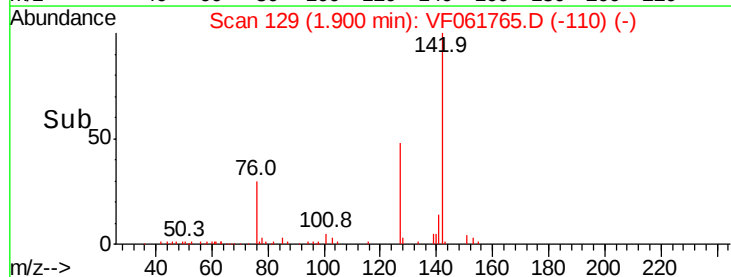
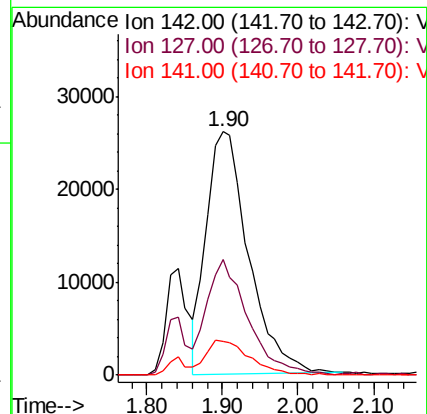
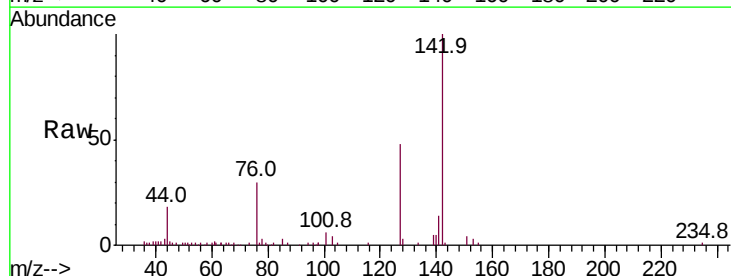
Tgt Ion:142 Resp: 101454

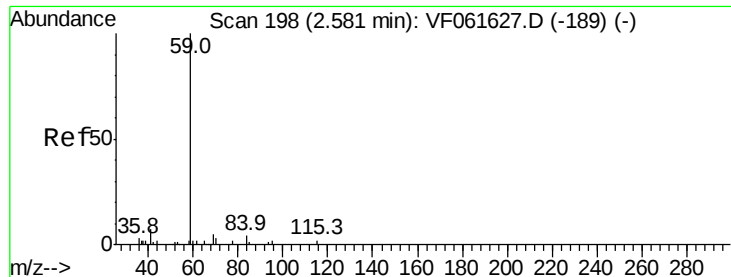
Ion Ratio Lower Upper

142 100

127 47.6 36.6 55.0

141 14.0 11.0 16.6



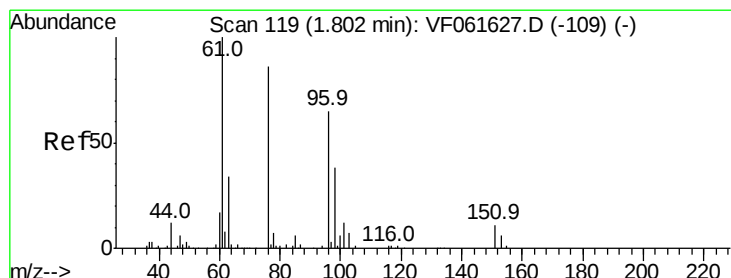
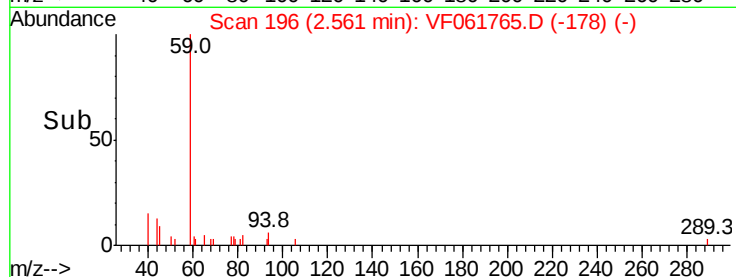
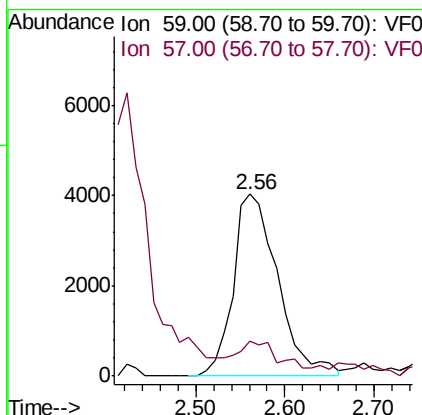
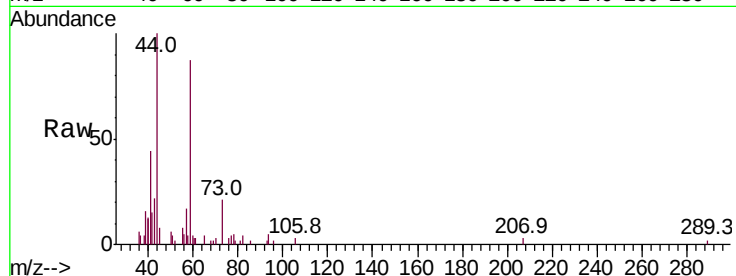


#11

Tert butyl alcohol
 Concen: 103.408 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.02 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

Instrument :
 MSVOA_F
 ClientSampleId :

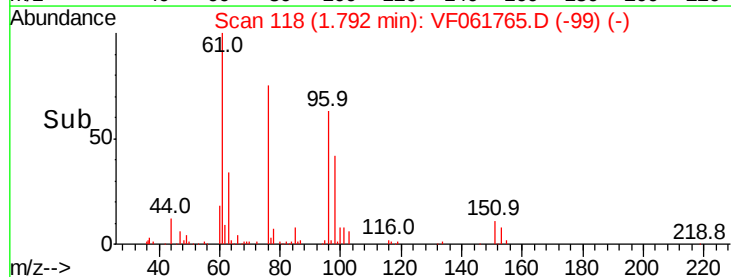
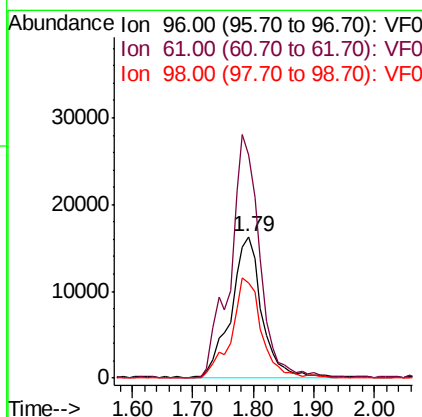
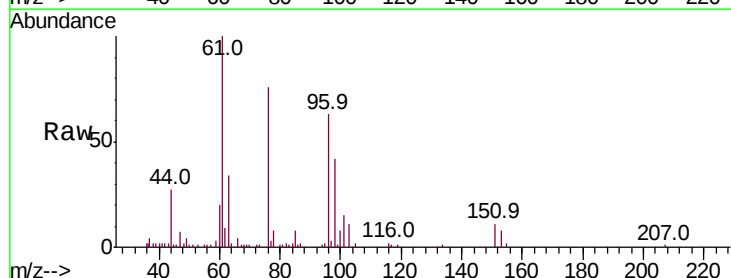
Tot Ion: 59 Resp: 14078
 Ion Ratio Lower Upper
 59 100
 57 19.2 12.5 18.7#

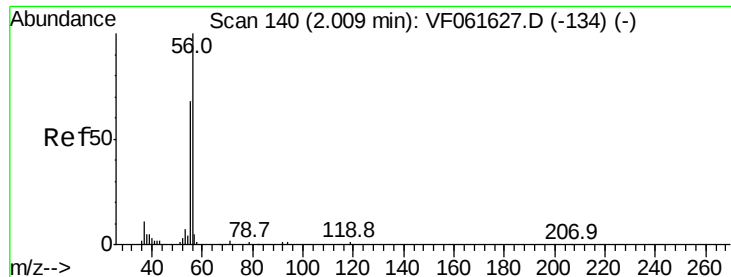


#12

1,1-Dichloroethene
 Concen: 21.300 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

Tgt Ion: 96 Resp: 58551
 Ion Ratio Lower Upper
 96 100
 61 157.8 122.6 184.0
 98 66.8 47.2 70.8





#13

Acrolein

Concen: 74.808 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

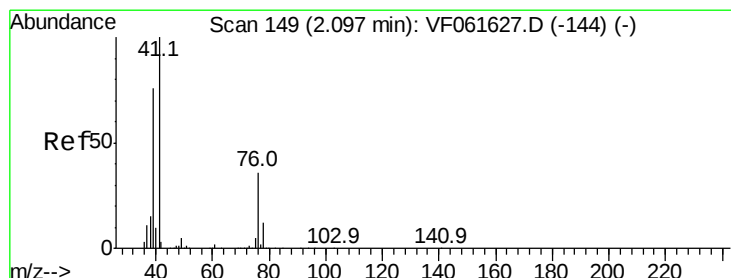
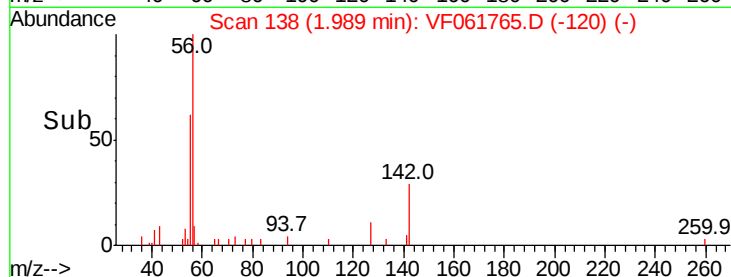
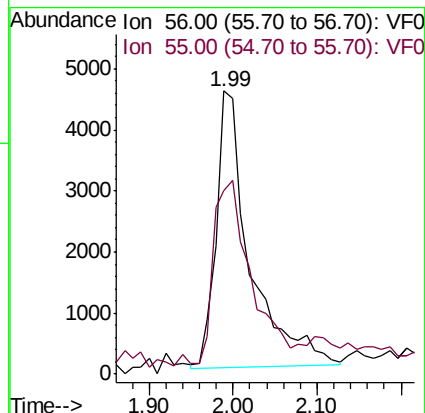
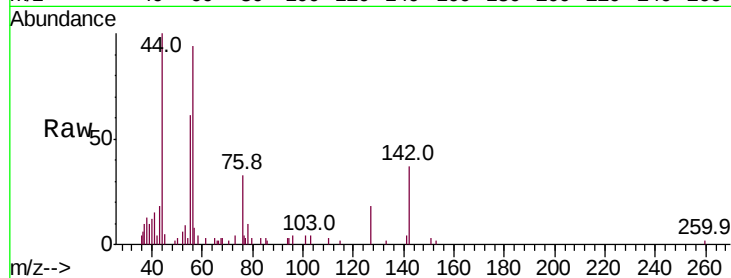
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 12800

Ion Ratio Lower Upper

56 100

55 64.7 55.0 82.6



#14

Allyl chloride

Concen: 20.007 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

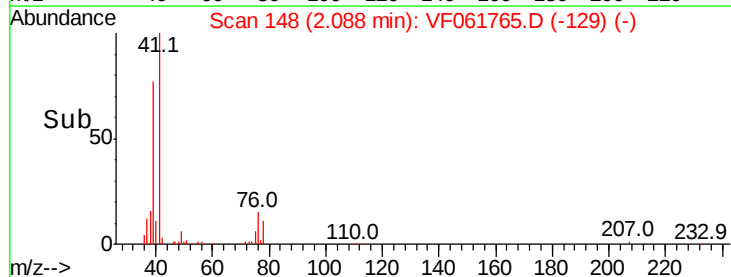
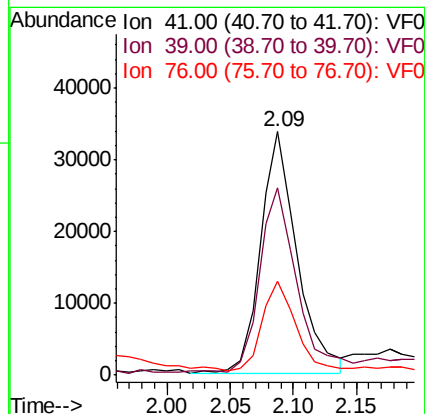
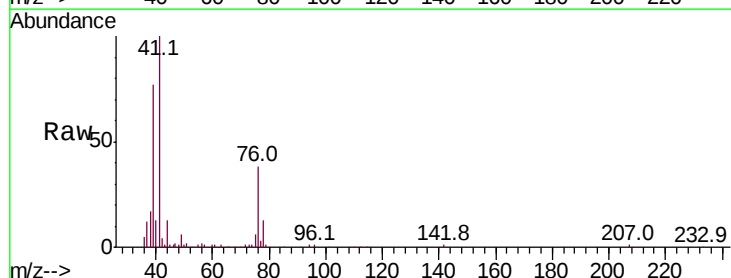
Tgt Ion: 41 Resp: 67486

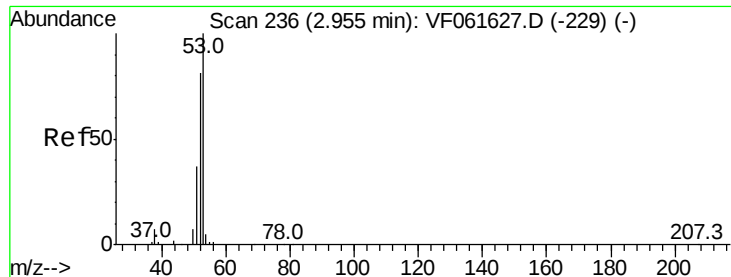
Ion Ratio Lower Upper

41 100

39 77.1 61.6 92.4

76 38.4 30.3 45.5





#15

Acrylonitrile

Concen: 86.147 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

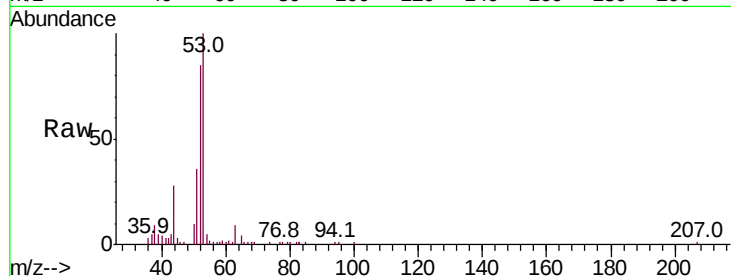
Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 53 Resp: 41600

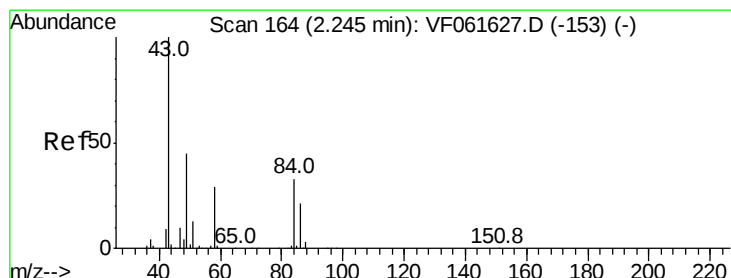
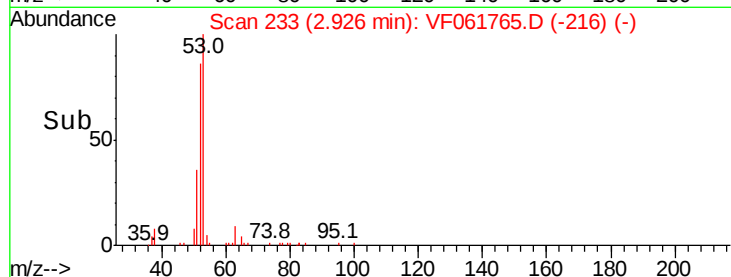
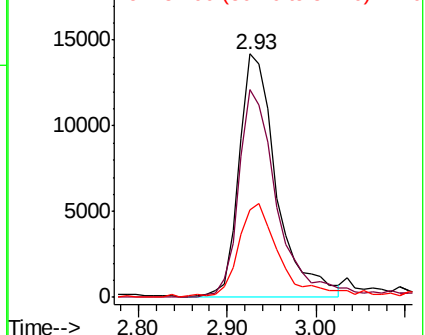
Ion	Ratio	Lower	Upper
53	100		
52	85.3	64.6	97.0
51	36.2	29.8	44.8



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 111.294 ug/l

RT: 2.24 min Scan# 163

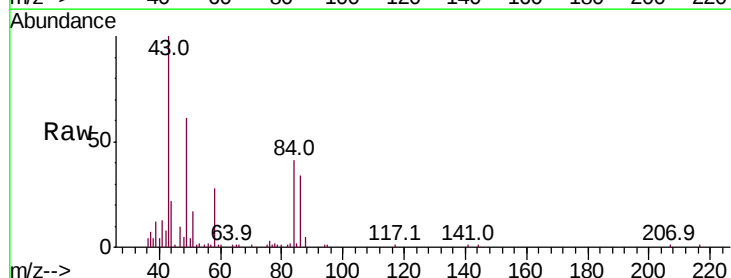
Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

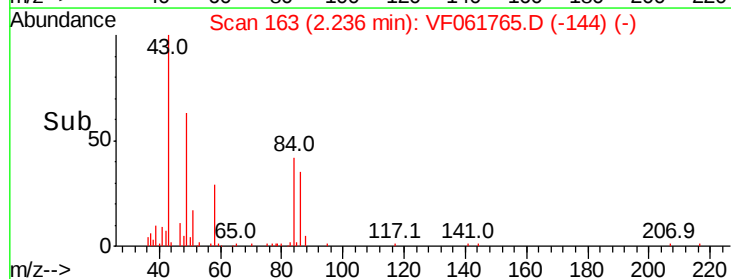
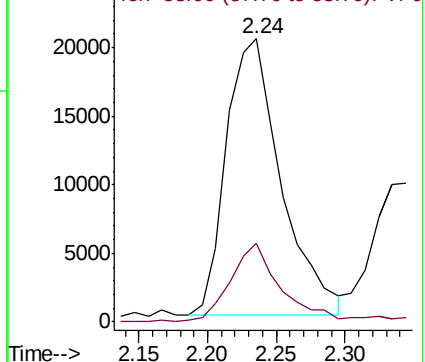
Tgt Ion: 43 Resp: 56172

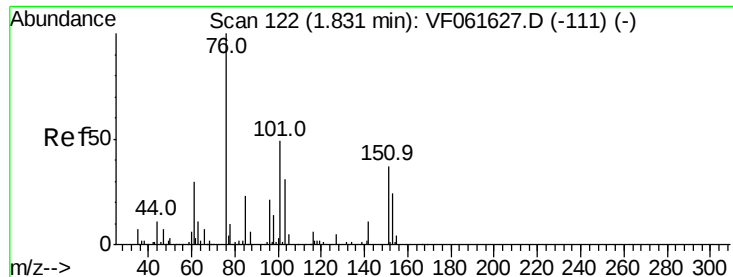
Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.9	34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

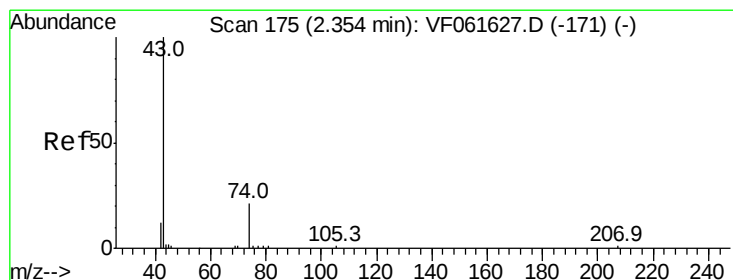
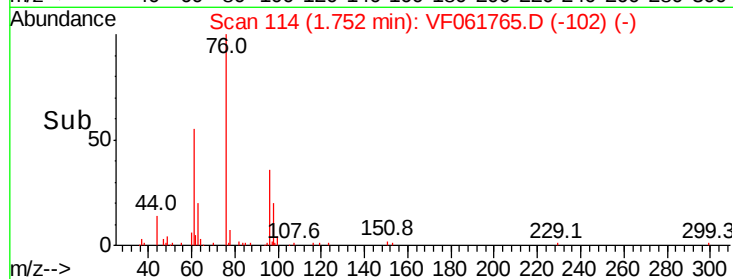
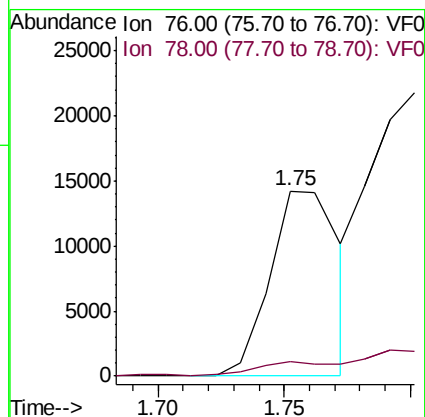
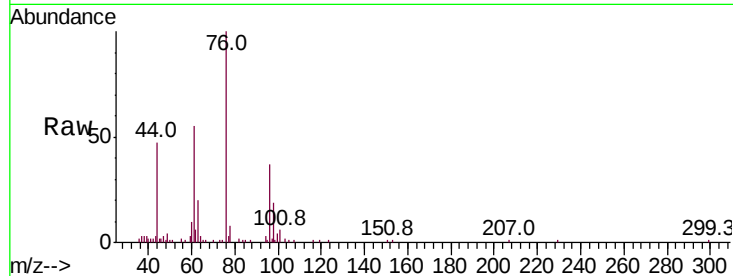




#17
Carbon Disulfide
Concen: 3.143 ug/l
RT: 1.75 min Scan# 114
Delta R.T. -0.08 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

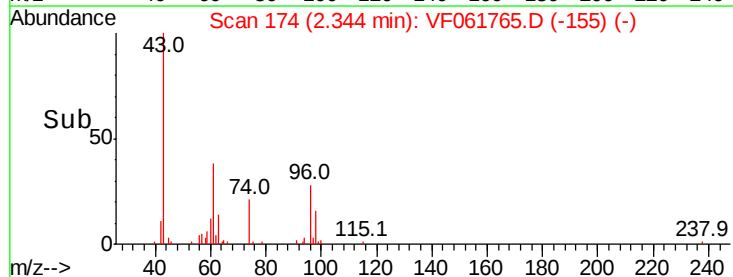
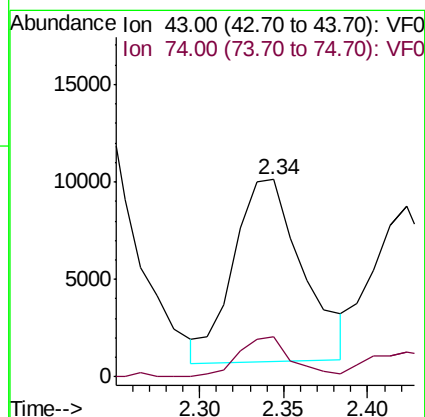
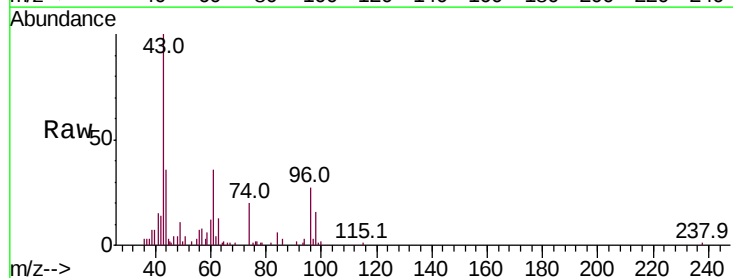
Instrument :
MSVOA_F
ClientSampleId :

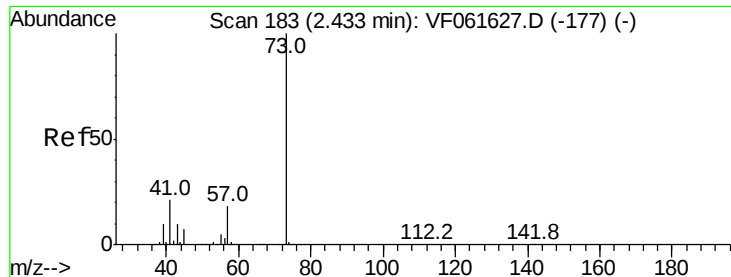
Tot Ion: 76 Resp: 27161
Ion Ratio Lower Upper
76 100
78 8.0 7.9 11.9



#18
Methyl Acetate
Concen: 23.508 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion: 43 Resp: 26729
Ion Ratio Lower Upper
43 100
74 20.3 14.6 21.8

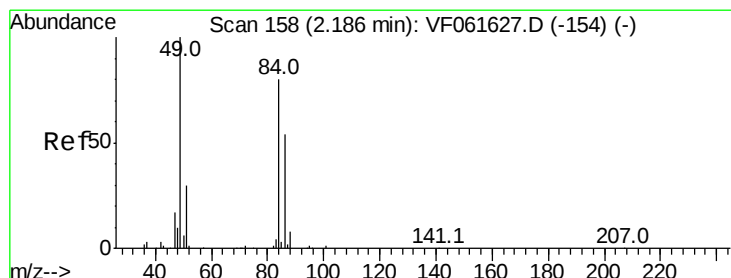
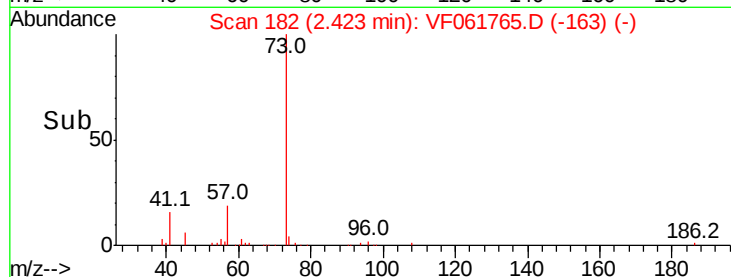
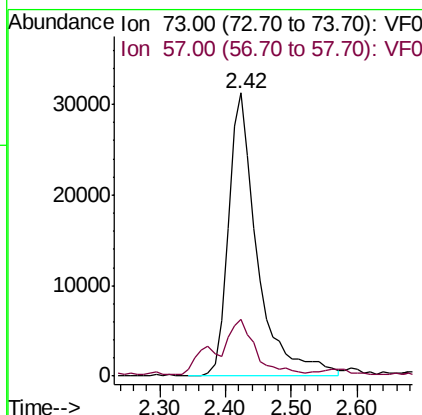
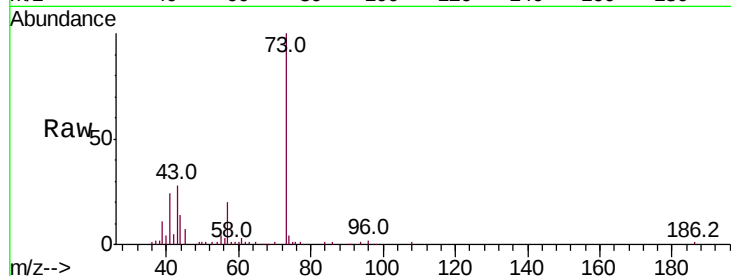




#19
Methvl tert-butvl Ether
Concen: 20.452 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

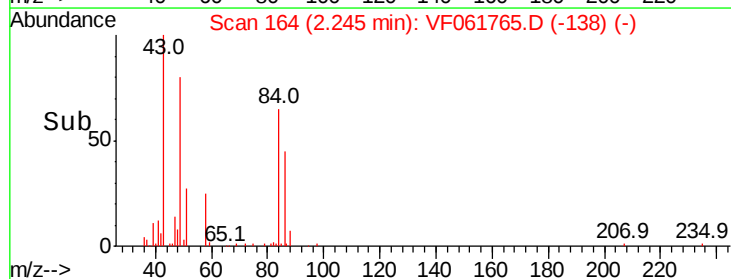
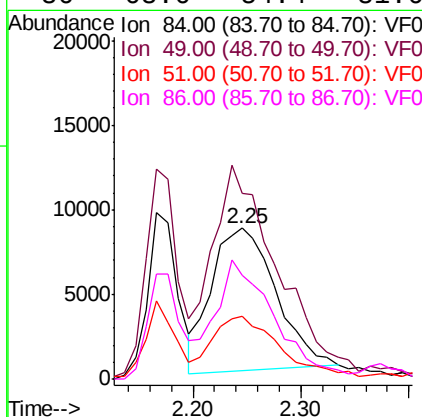
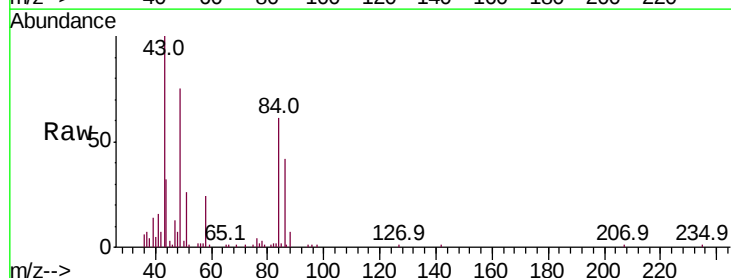
Instrument :
MSVOA_F
ClientSampleId :

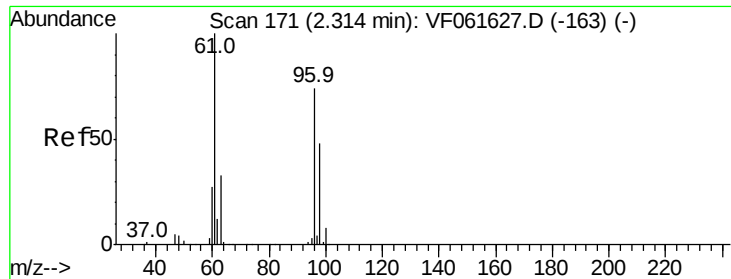
Tot Ion: 73 Resp: 96081
Ion Ratio Lower Upper
73 100
57 20.1 15.8 23.8



#20
Methylene Chloride
Concen: 10.926 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.06 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion: 84 Resp: 34877
Ion Ratio Lower Upper
84 100
49 122.9 101.8 152.8
51 41.9 31.1 46.7
86 68.6 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 21.123 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

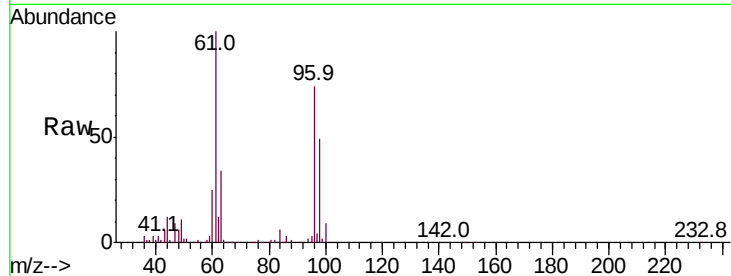
Tot Ion: 96 Resp: 63119

Ion Ratio Lower Upper

96 100

61 134.9 108.2 162.4

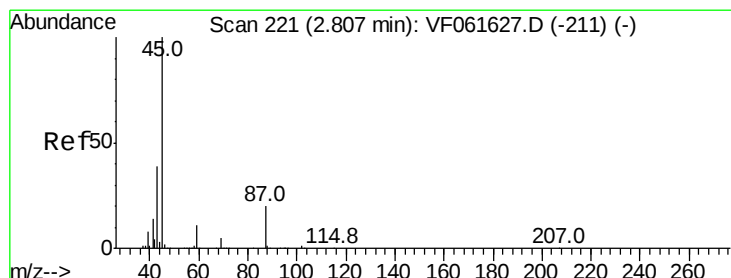
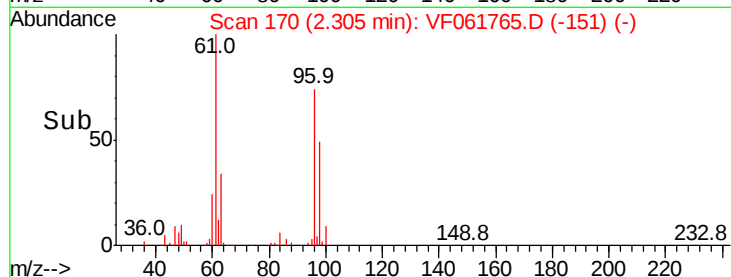
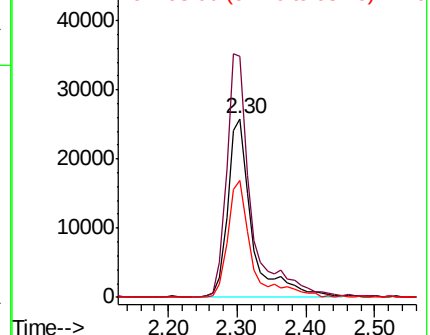
98 65.5 52.2 78.2



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



#22

Diisopropyl ether

Concen: 21.225 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Tgt Ion: 45 Resp: 171856

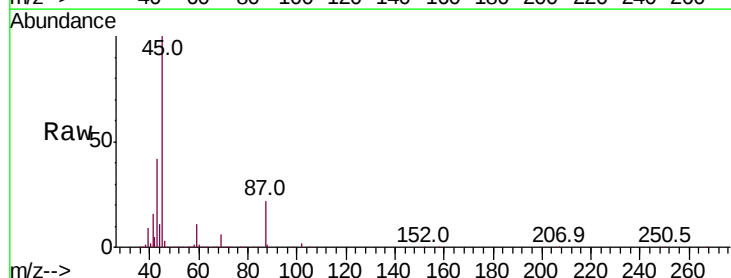
Ion Ratio Lower Upper

45 100

43 41.9 31.4 47.2

87 22.0 16.3 24.5

59 10.5 8.7 13.1

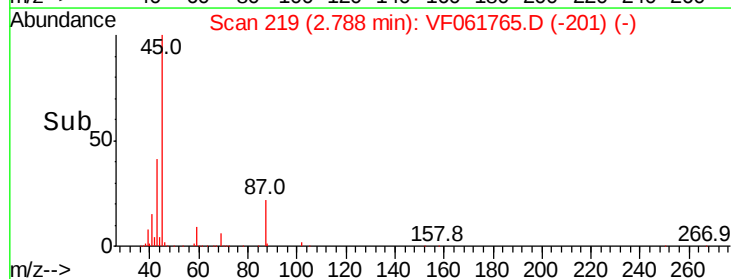
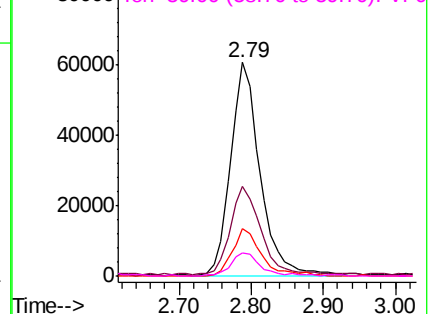


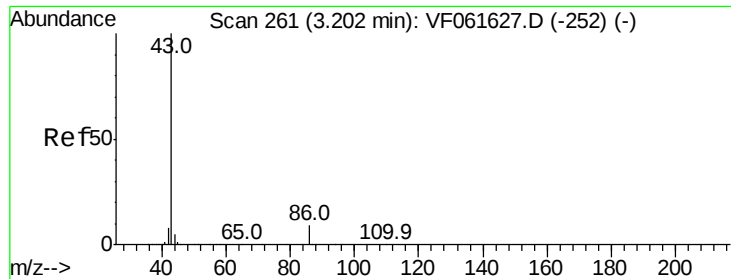
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 99.343 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

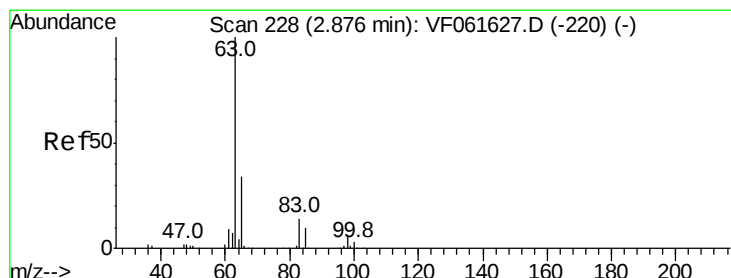
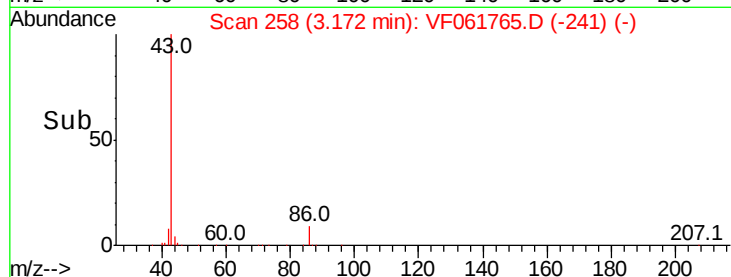
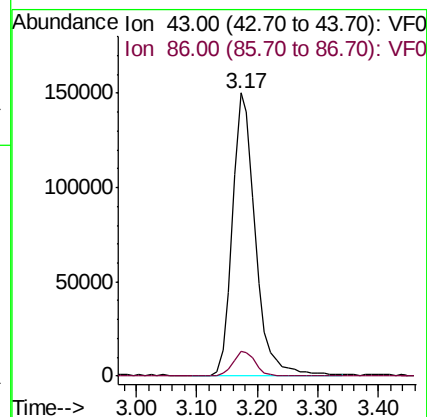
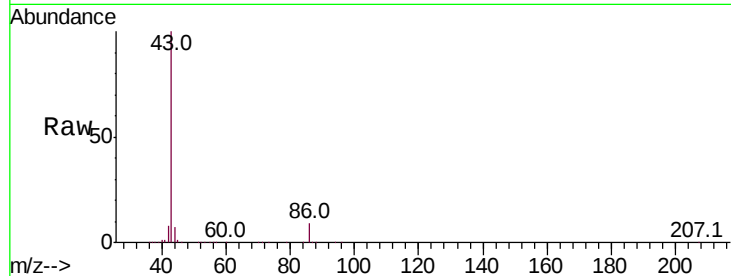
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 392879

Ion Ratio Lower Upper

43 100

86 8.7 7.5 11.3



#24

1,1-Dichloroethane

Concen: 21.336 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

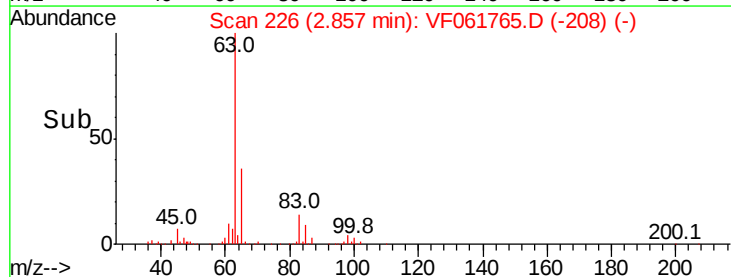
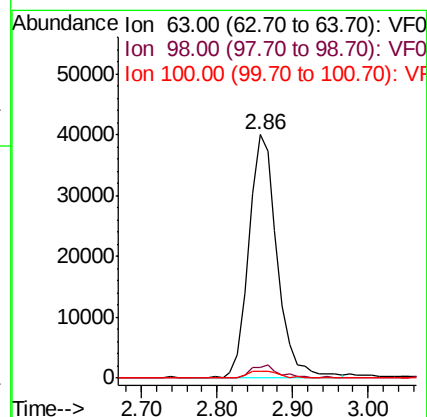
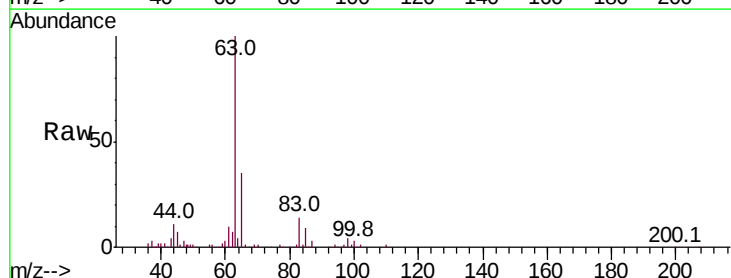
Tgt Ion: 63 Resp: 104545

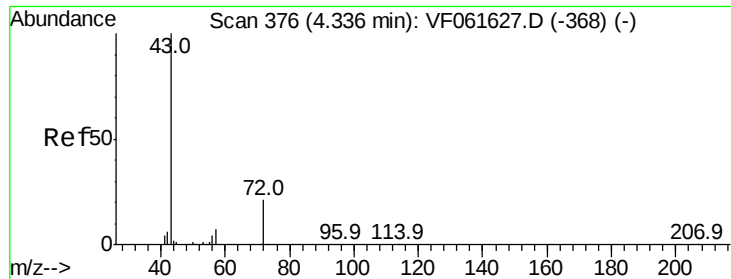
Ion Ratio Lower Upper

63 100

98 4.4 2.8 8.3

100 2.9 1.8 5.4





#25

2-Butanone

Concen: 99.259 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

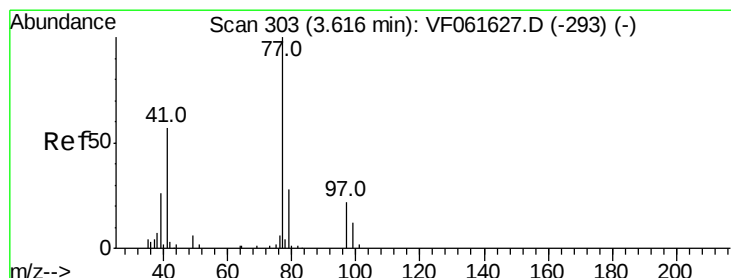
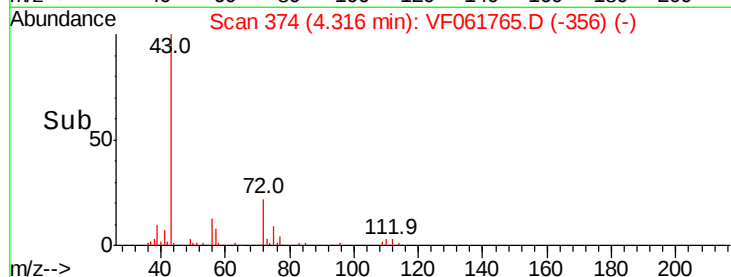
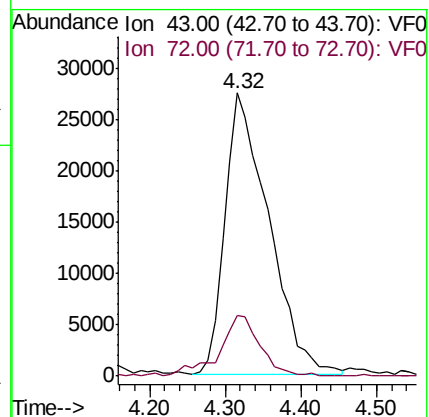
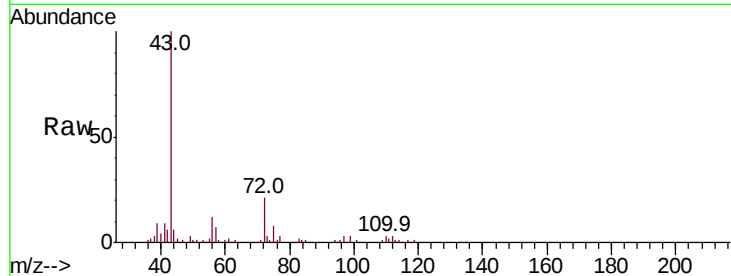
ClientSampleId :

Tot Ion: 43 Resp: 109429

Ion Ratio Lower Upper

43 100

72 21.2 17.1 25.7



#26

2,2-Dichloropropane

Concen: 23.520 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.03 min

Lab File: VF061765.D

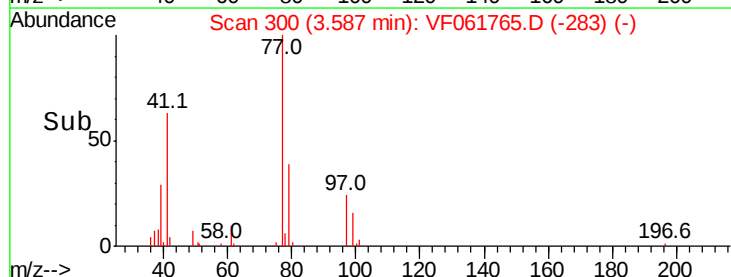
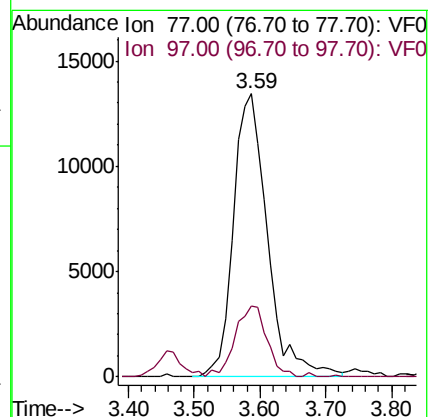
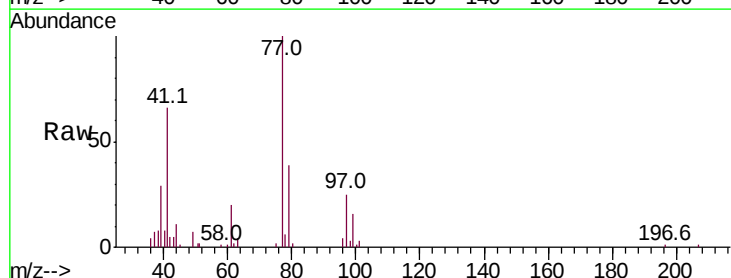
Acq: 27 Feb 2019 14:40

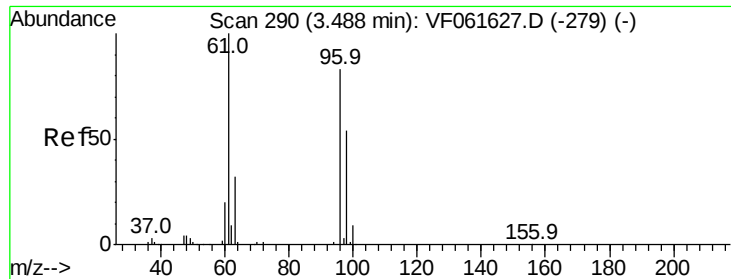
Tgt Ion: 77 Resp: 48816

Ion Ratio Lower Upper

77 100

97 25.0 11.7 35.0



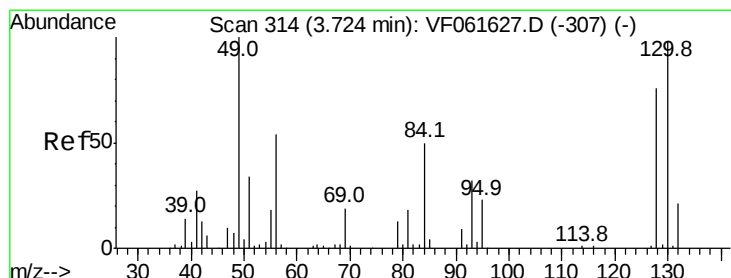
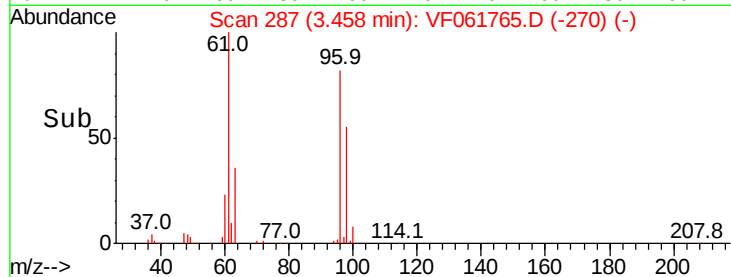
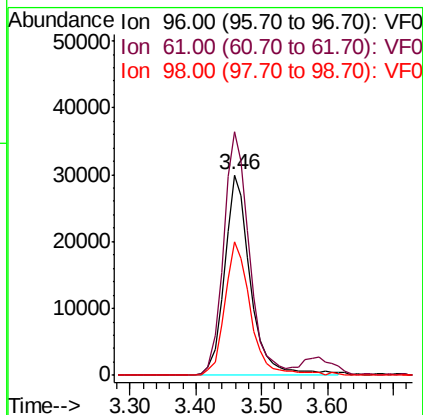
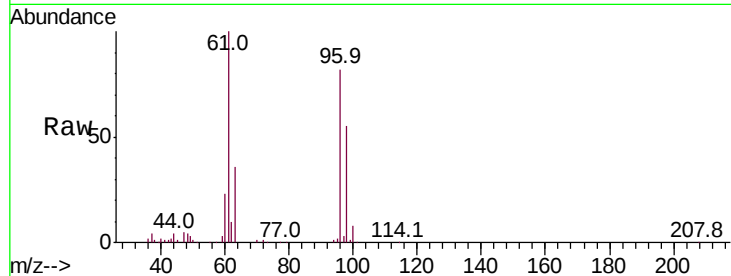


#27

cis-1,2-Dichloroethene
Concen: 20.956 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

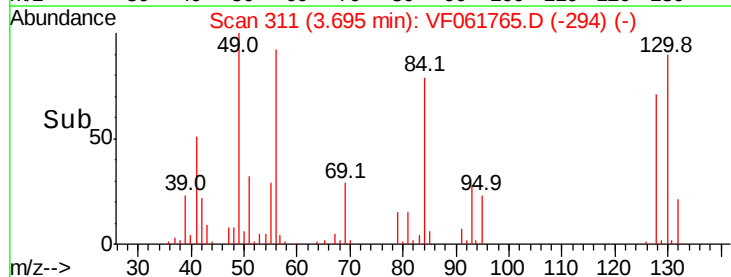
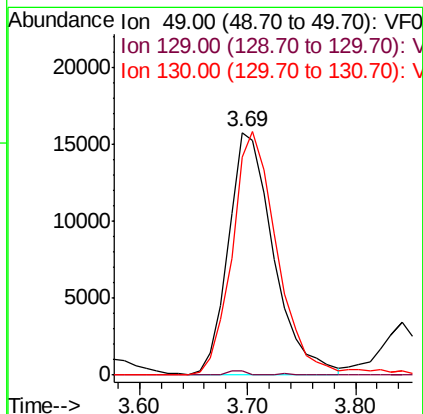
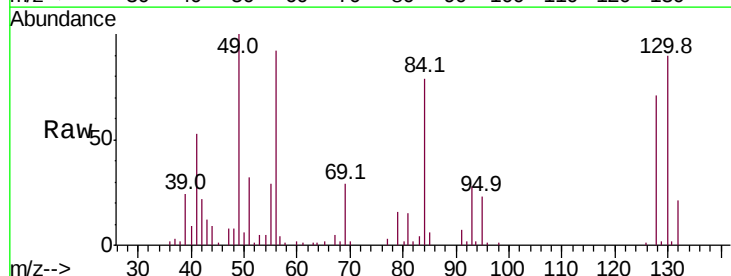
Tot Ion: 96 Resp: 82194
Ion Ratio Lower Upper
96 100
61 121.5 0.0 241.6
98 66.6 0.0 130.2

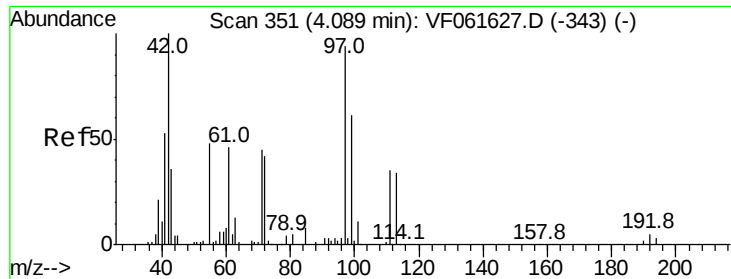


#28

Bromochloromethane
Concen: 19.467 ug/l
RT: 3.69 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion: 49 Resp: 45769
Ion Ratio Lower Upper
49 100
129 1.6 0.0 3.4
130 90.1 77.7 116.5

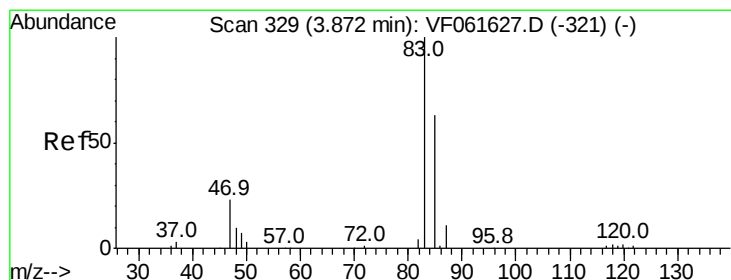
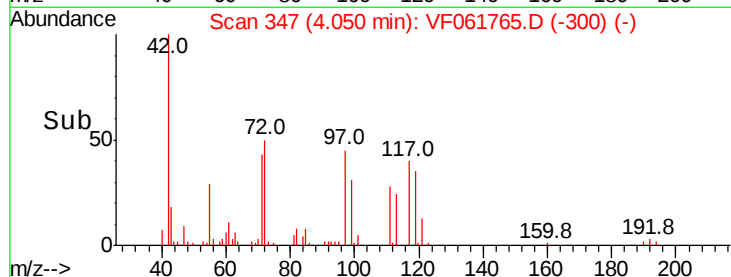
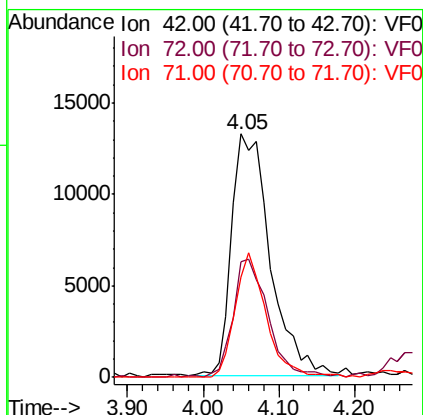
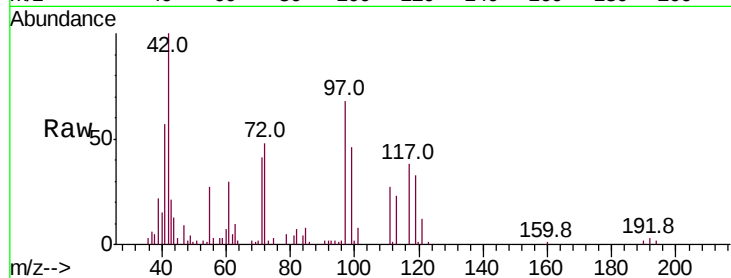




#29
Tetrahydrofuran
Concen: 92.978 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

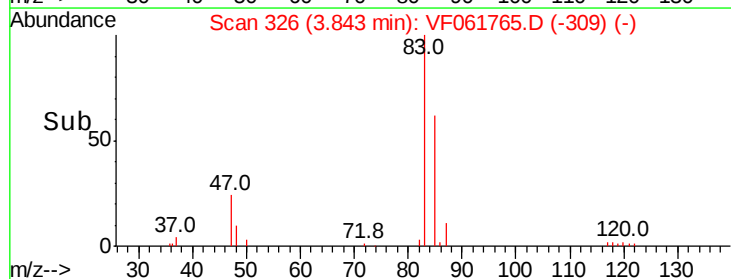
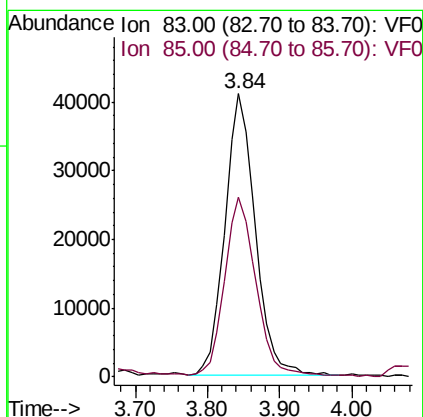
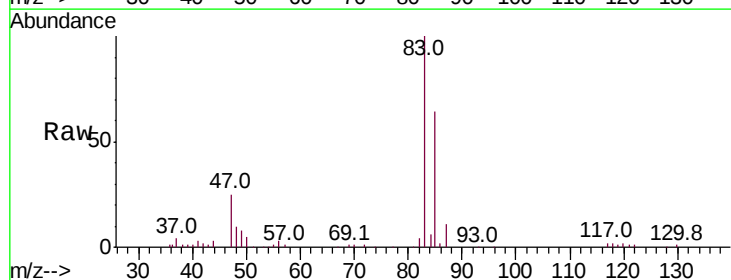
Instrument :
MSVOA_F
ClientSampleId :

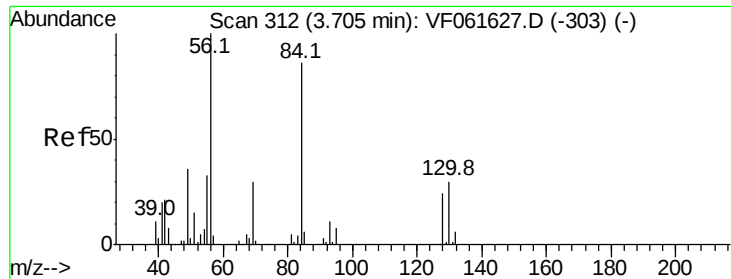
Tot Ion: 42 Resp: 46589
Ion Ratio Lower Upper
42 100
72 45.2 35.2 52.8
71 41.7 32.9 49.3



#30
Chloroform
Concen: 21.541 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion: 83 Resp: 120034
Ion Ratio Lower Upper
83 100
85 63.6 51.1 76.7

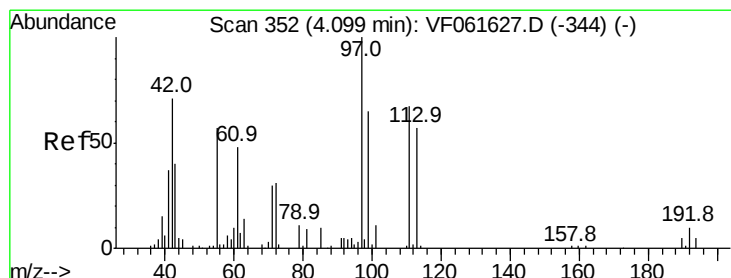
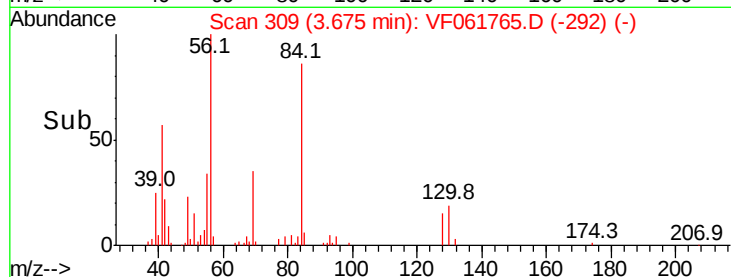
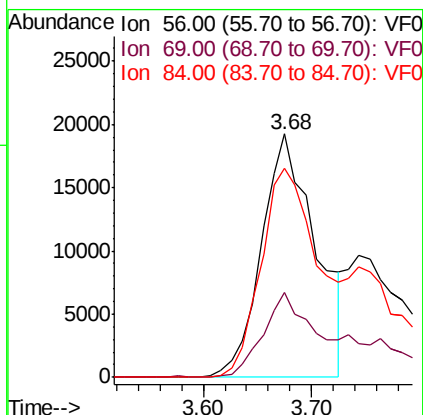
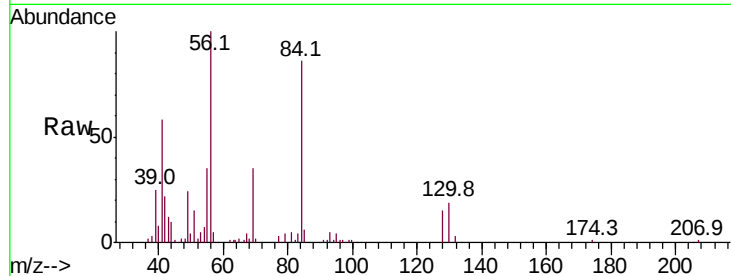




#31
Cyclohexane
Concen: 12.723 ug/l
RT: 3.68 min Scan# 309
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

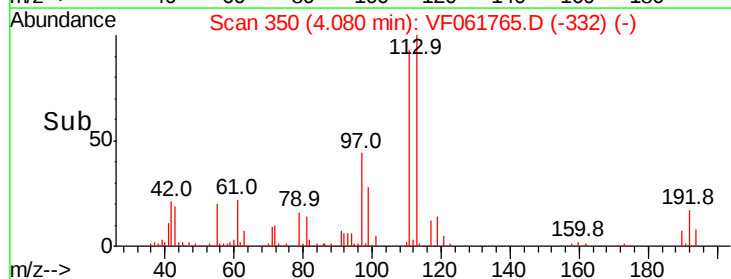
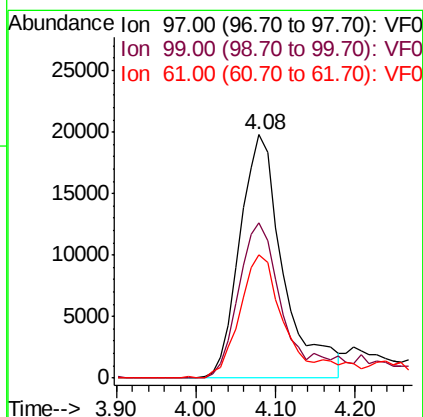
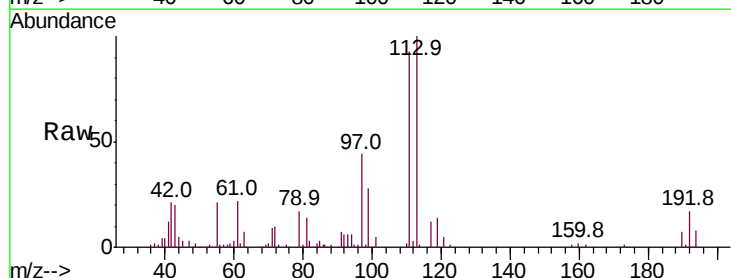
Instrument :
MSVOA_F
ClientSampled :

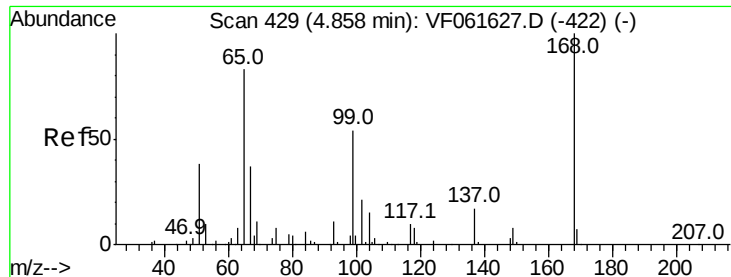
Tot Ion: 56 Resp: 67491
Ion Ratio Lower Upper
56 100
69 34.8 23.8 35.8
84 86.1 68.6 103.0



#32
1,1,1-Trichloroethane
Concen: 20.543 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion: 97 Resp: 74986
Ion Ratio Lower Upper
97 100
99 63.9 52.2 78.2
61 50.8 39.2 58.8





#33

1,2-Dichloroethane-d4

Concen: 57.992 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

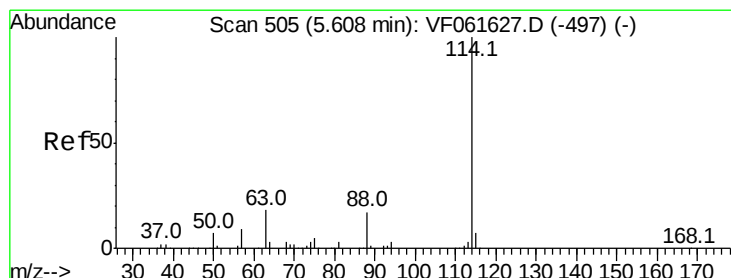
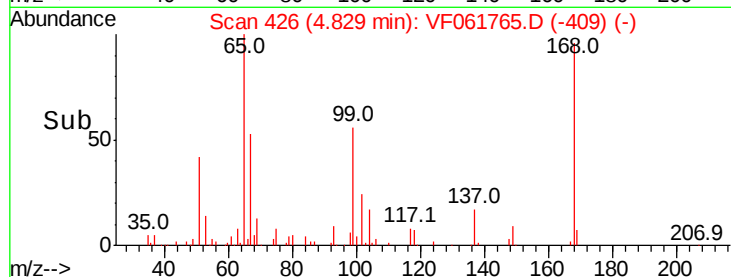
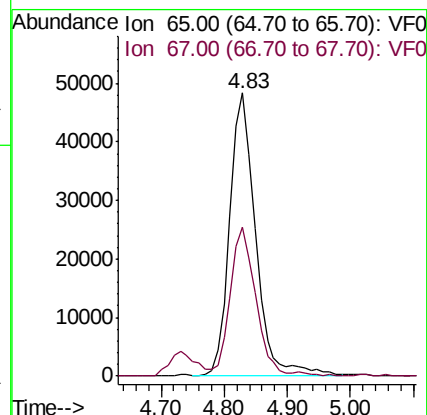
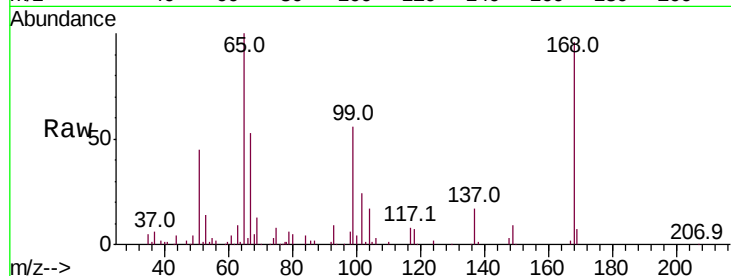
ClientSampleId :

Tot Ion: 65 Resp: 136420

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

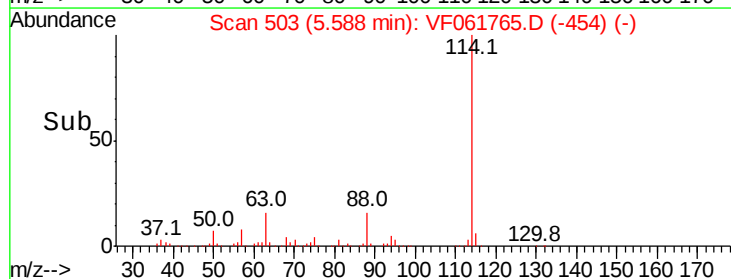
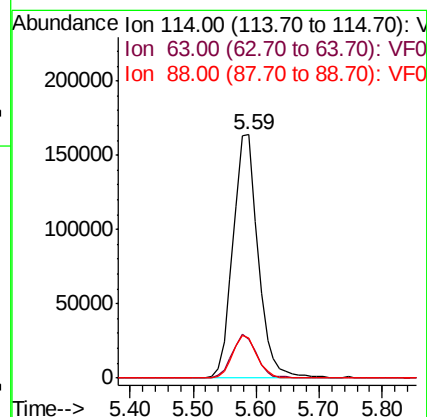
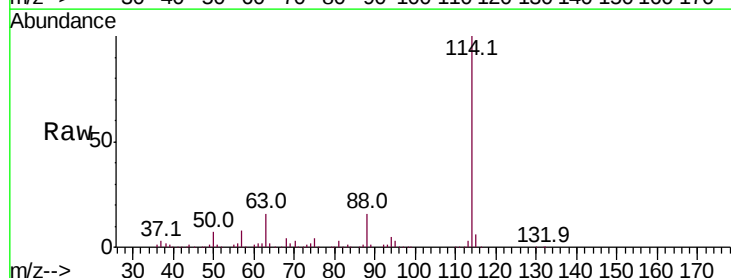
Tgt Ion: 114 Resp: 452396

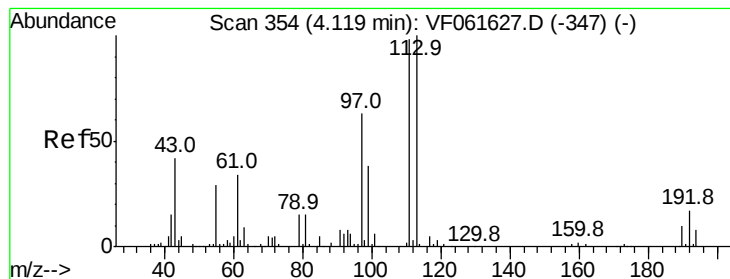
Ion Ratio Lower Upper

114 100

63 16.0 0.0 36.6

88 16.4 0.0 34.4





#35

Dibromofluoromethane

Concen: 57.395 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampled :

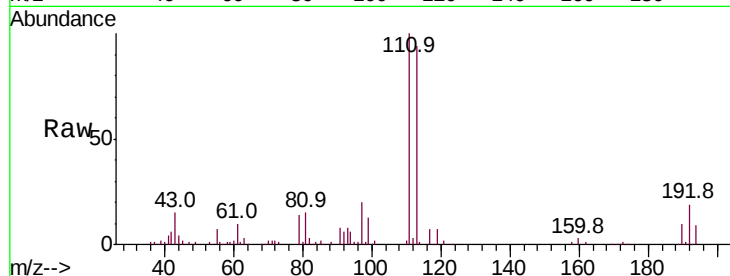
Tot Ion:113 Resp: 192819

Ion Ratio Lower Upper

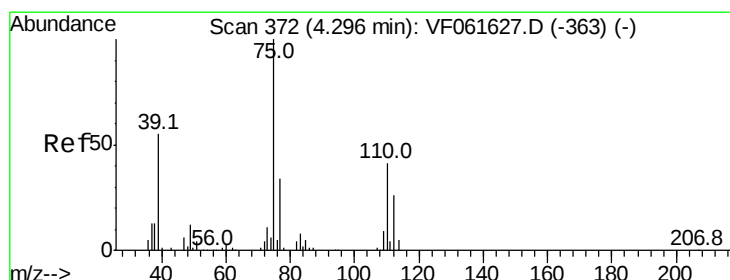
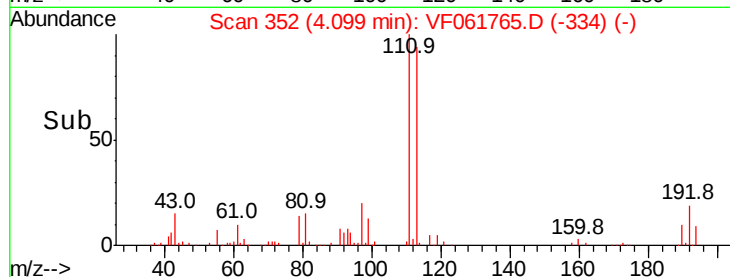
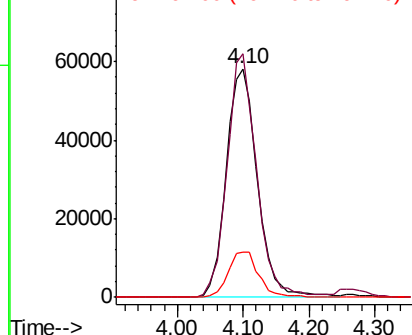
113 100

111 106.4 78.8 118.2

192 20.3 13.4 20.0#



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



#36

1,1-Dichloropropene

Concen: 21.078 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.04 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

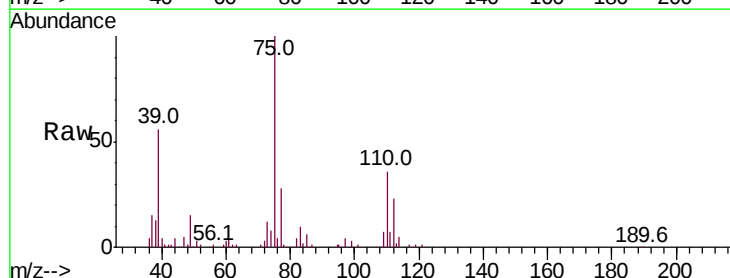
Tgt Ion: 75 Resp: 94463

Ion Ratio Lower Upper

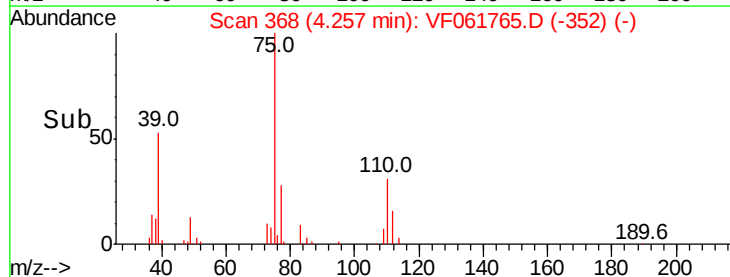
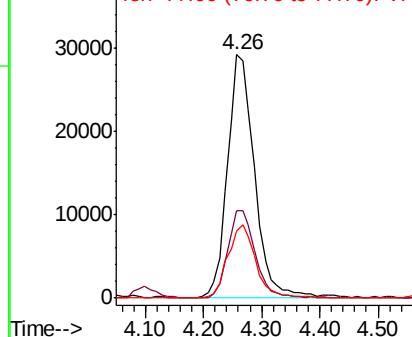
75 100

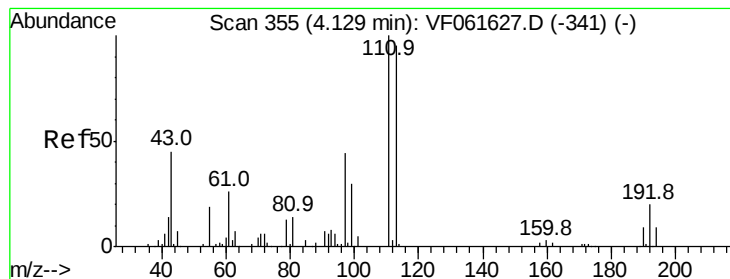
110 35.7 20.5 61.6

77 27.6 27.0 40.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 18.873 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

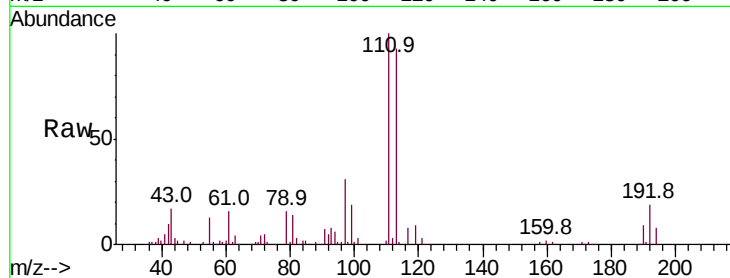
Tot Ion: 43 Resp: 39285

Ion Ratio Lower Upper

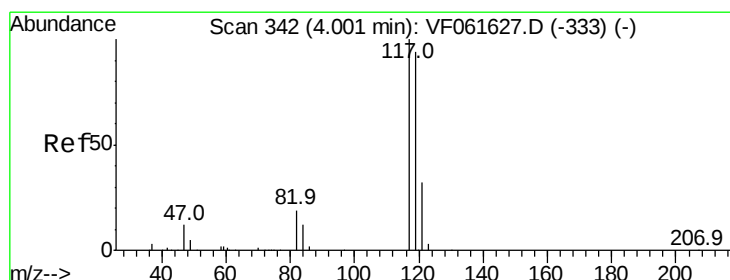
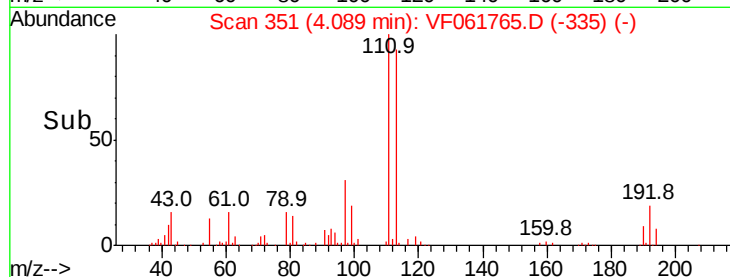
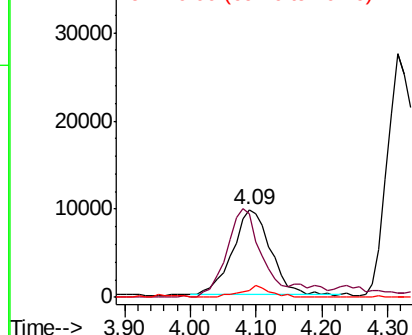
43 100

61 94.7 45.7 68.5#

70 7.4 8.5 12.7#



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: 23.127 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

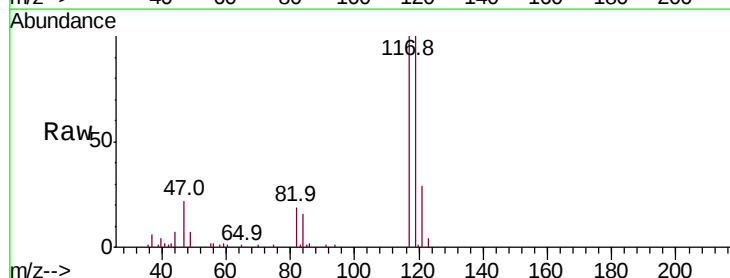
Tgt Ion: 117 Resp: 71569

Ion Ratio Lower Upper

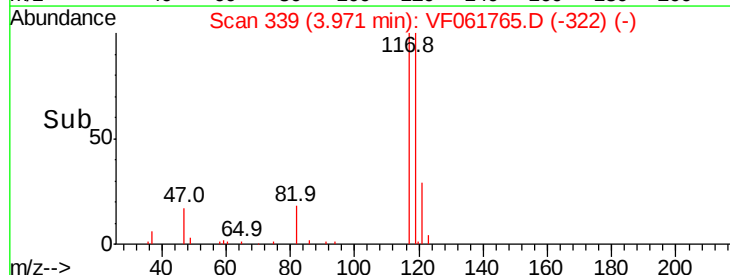
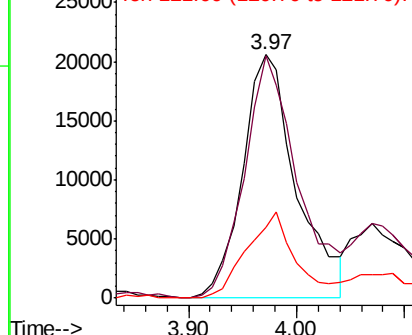
117 100

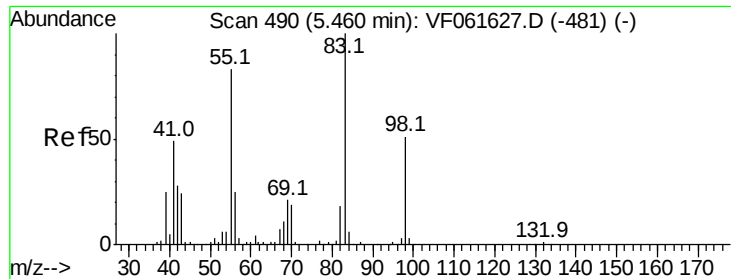
119 99.6 75.6 113.4

121 29.0 25.2 37.8



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

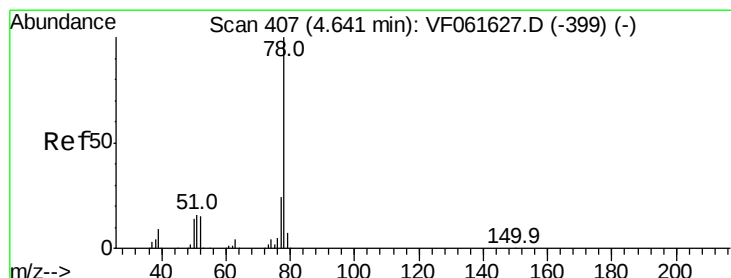
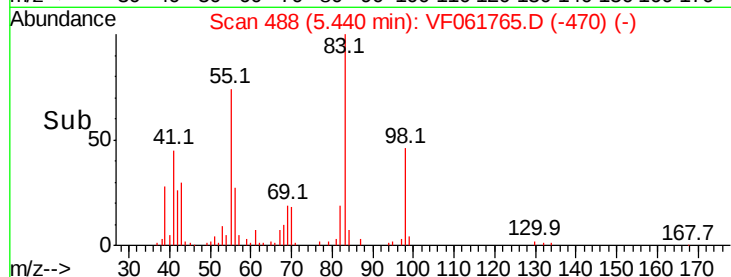
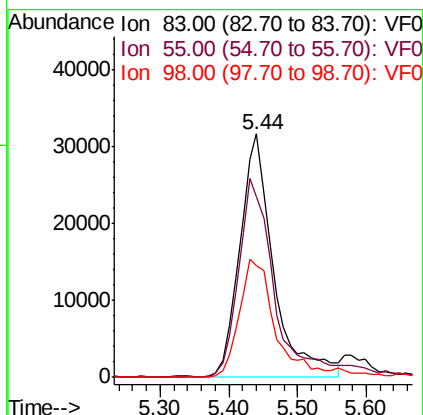
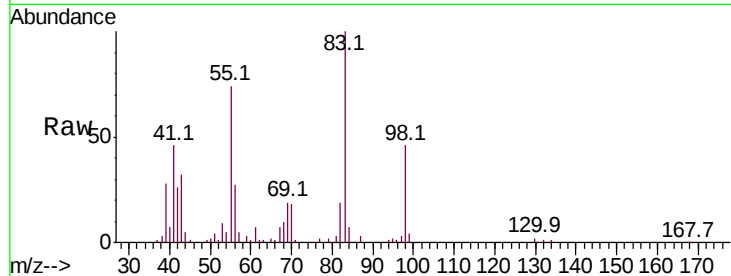




#39
Methvlcvclohexane
Concen: 20.432 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

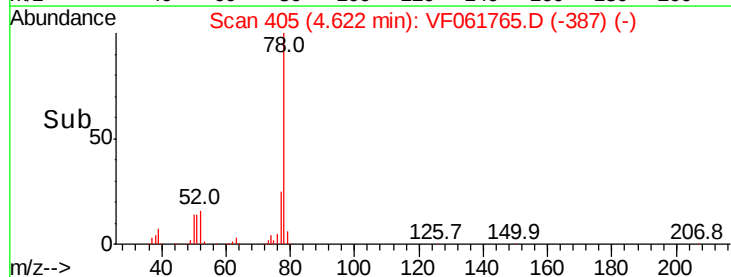
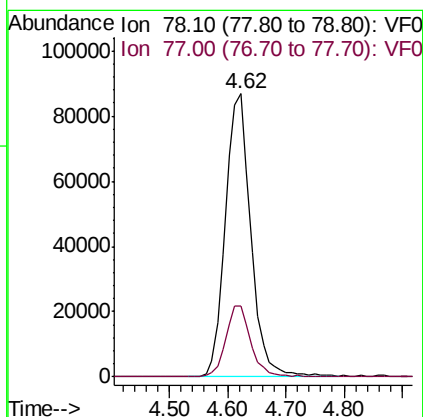
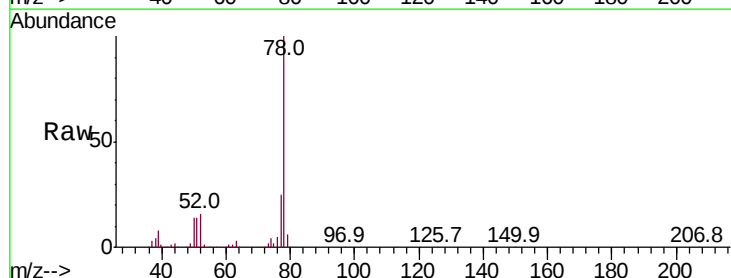
Instrument :
MSVOA_F
ClientSampleId :

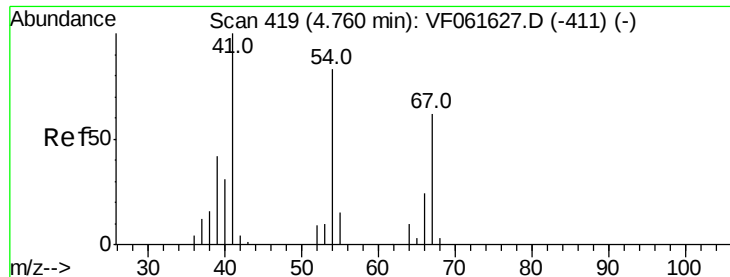
Tot Ion: 83 Resp: 108294
Ion Ratio Lower Upper
83 100
55 74.5 66.6 99.8
98 46.1 40.4 60.6



#40
Benzene
Concen: 22.554 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion: 78 Resp: 264381
Ion Ratio Lower Upper
78 100
77 25.2 19.0 28.6

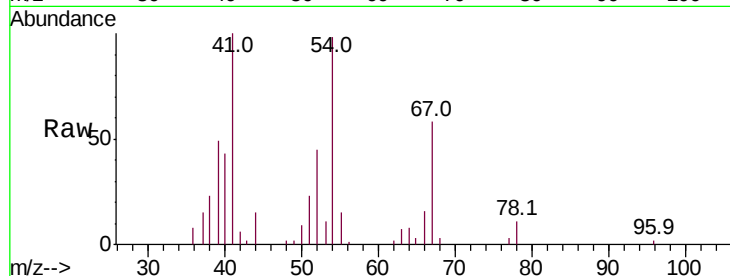




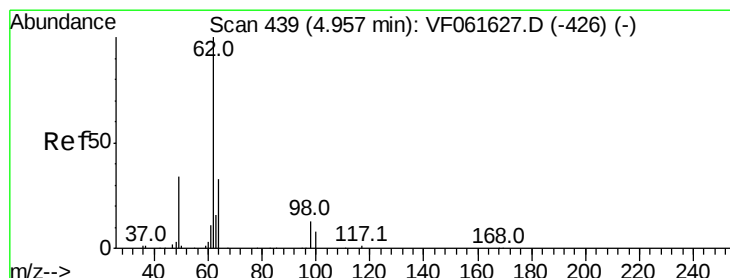
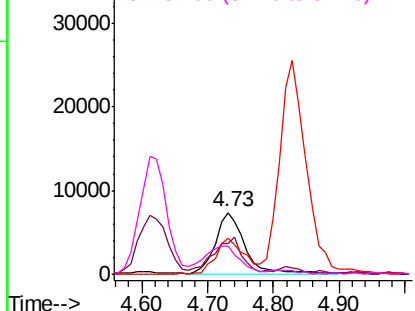
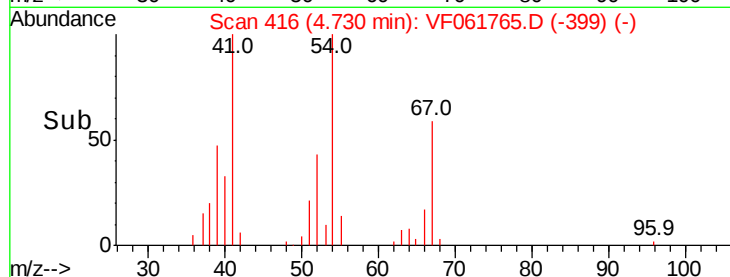
#41
Methacrylonitrile
Concen: 21.682 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	23081
Ion	Ratio	Lower	Upper
41	100		
39	49.1	45.3	67.9
67	58.1	49.3	73.9
52	45.0	32.6	49.0

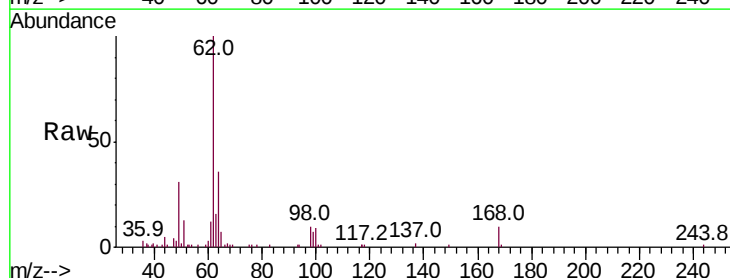


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

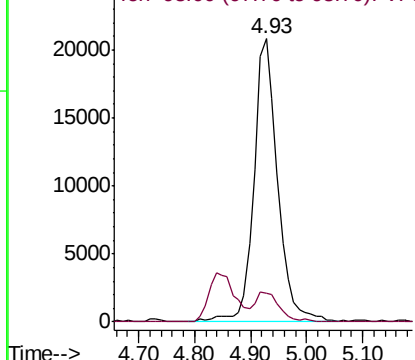
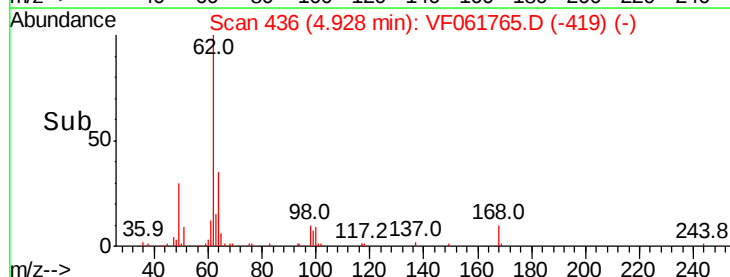


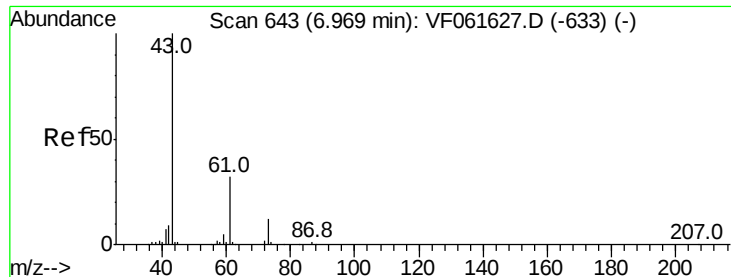
#42
1,2-Dichloroethane
Concen: 21.791 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion:	62	Resp:	61101
Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



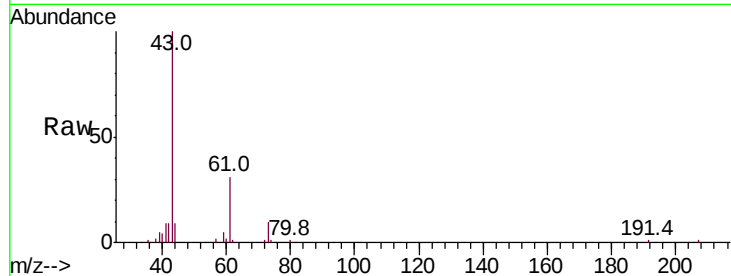


#43

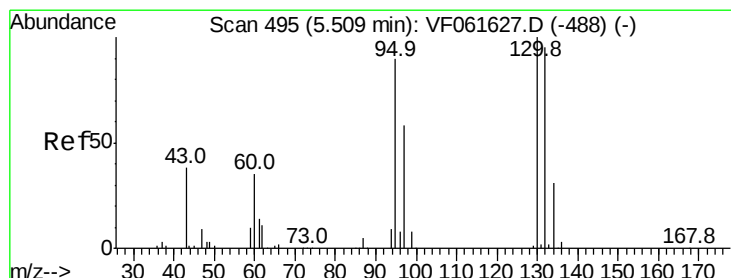
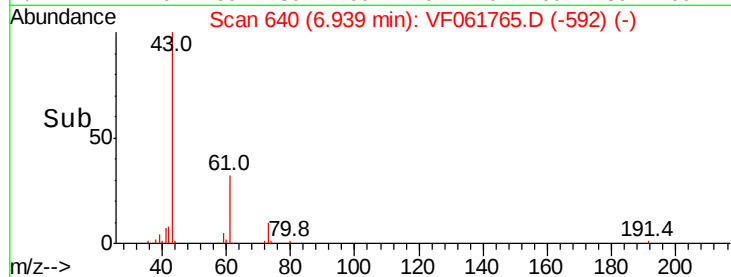
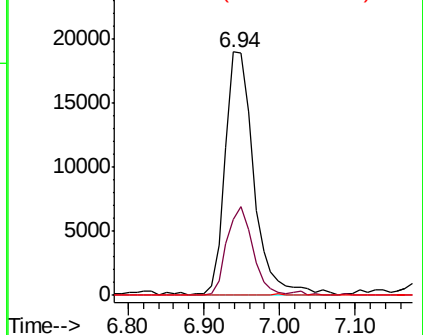
Isopropyl Acetate
 Concen: 20.490 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.03 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 50485
 Ion Ratio Lower Upper
 43 100
 61 31.3 25.8 38.6
 87 0.0 0.4 0.6#



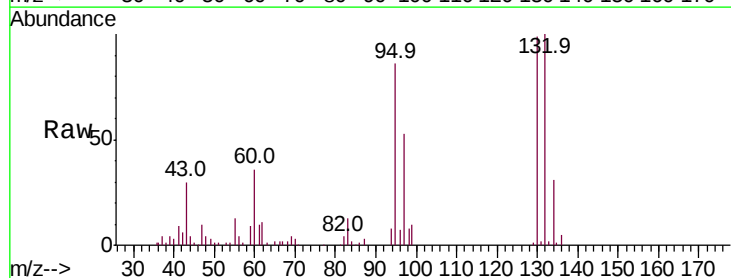
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



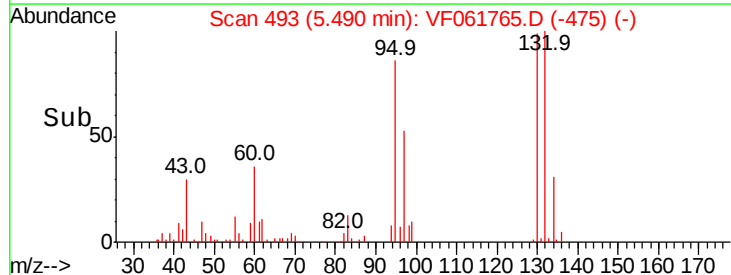
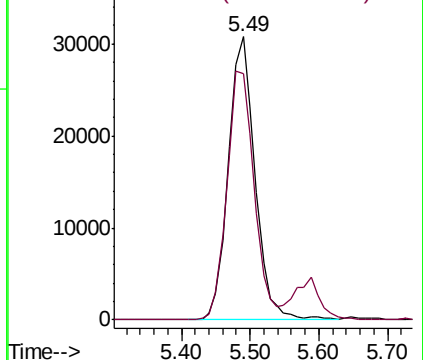
#44

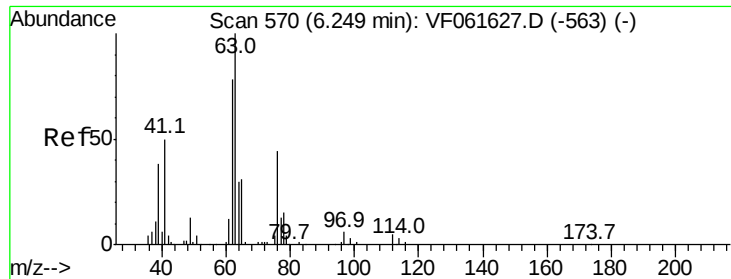
Trichloroethene
 Concen: 21.827 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.02 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

Tgt Ion:130 Resp: 82739
 Ion Ratio Lower Upper
 130 100
 95 87.2 0.0 179.4



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





#45

1,2-Dichloropropane

Concen: 22.621 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

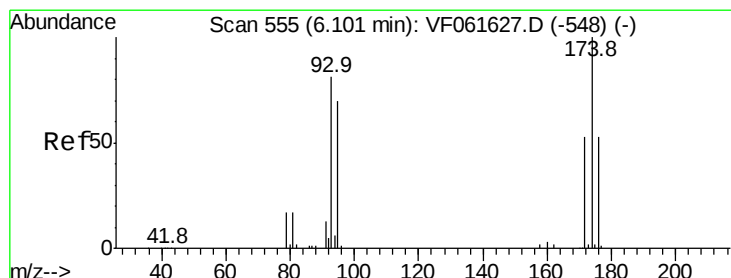
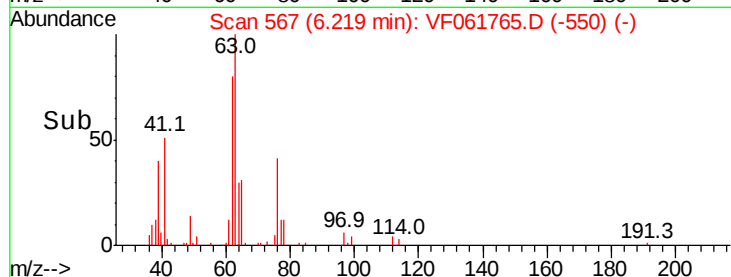
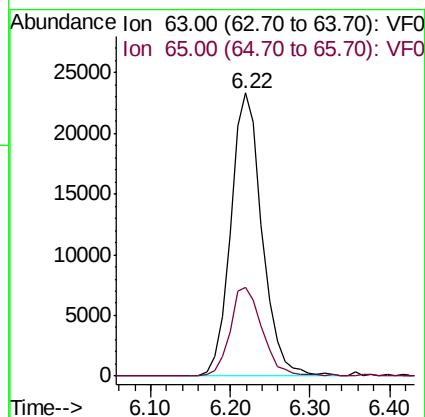
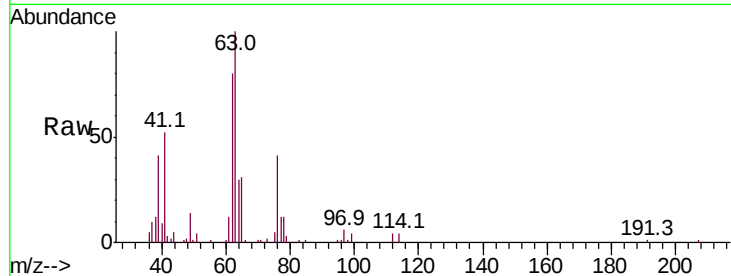
ClientSampleId :

Tot Ion: 63 Resp: 64097

Ion Ratio Lower Upper

63 100

65 31.5 24.9 37.3



#46

Dibromomethane

Concen: 21.693 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

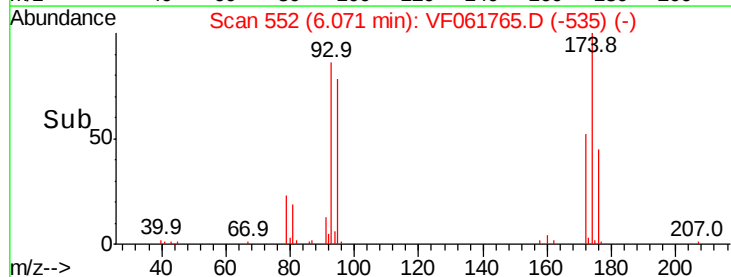
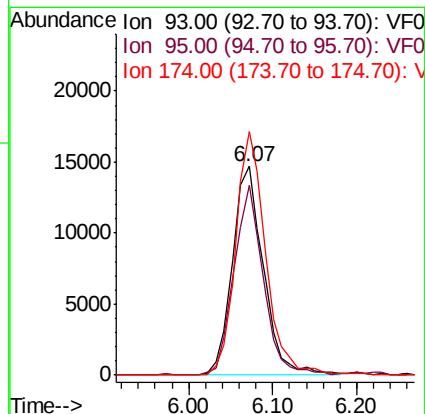
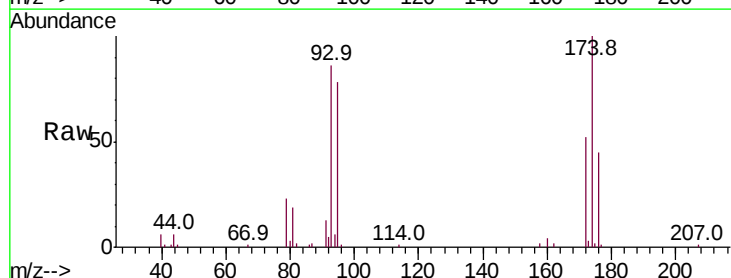
Tgt Ion: 93 Resp: 37845

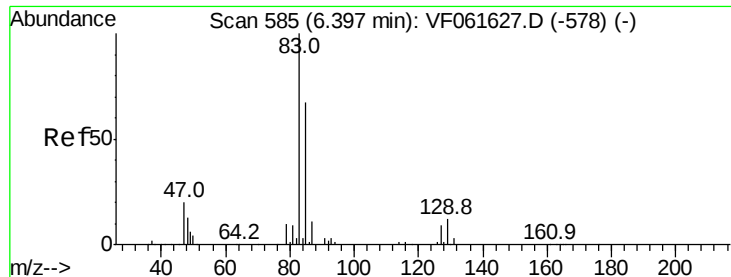
Ion Ratio Lower Upper

93 100

95 90.9 69.0 103.6

174 116.6 99.3 148.9





#47

Bromodichloromethane

Concen: 22.004 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

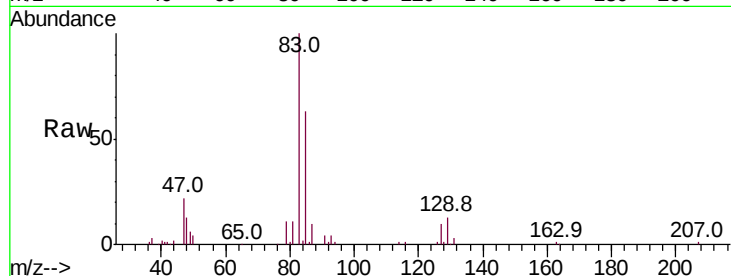
Tot Ion: 83 Resp: 84065

Ion Ratio Lower Upper

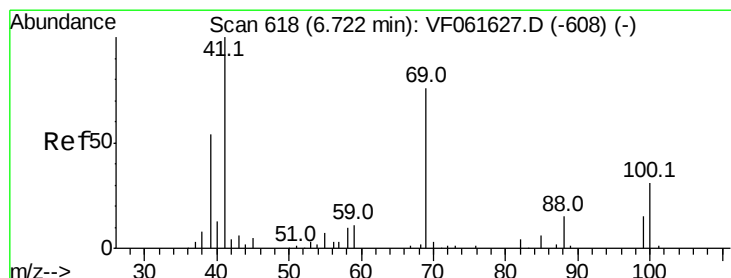
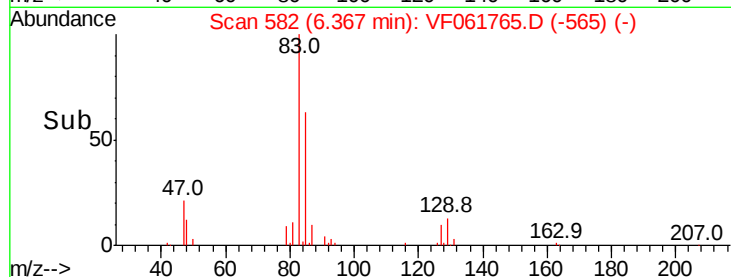
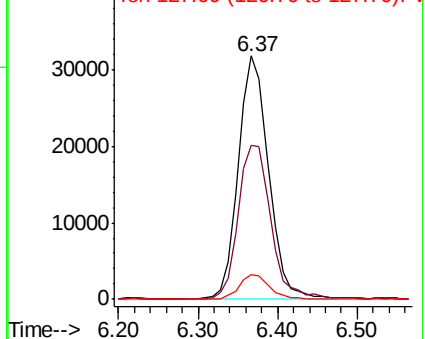
83 100

85 63.1 53.4 80.2

127 9.9 7.5 11.3



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



#48

Methyl methacrylate

Concen: 21.264 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

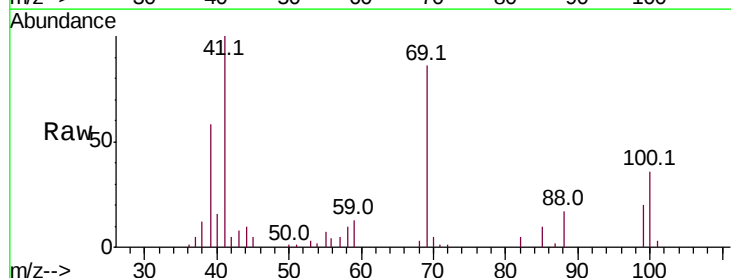
Tgt Ion: 41 Resp: 31529

Ion Ratio Lower Upper

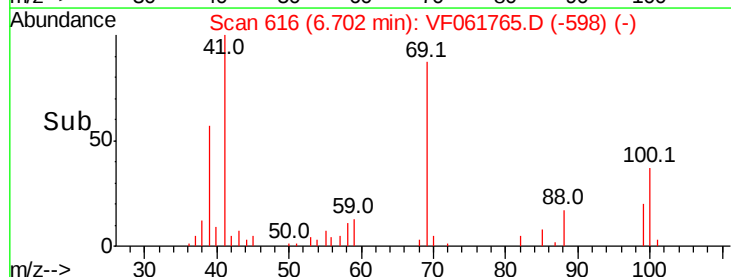
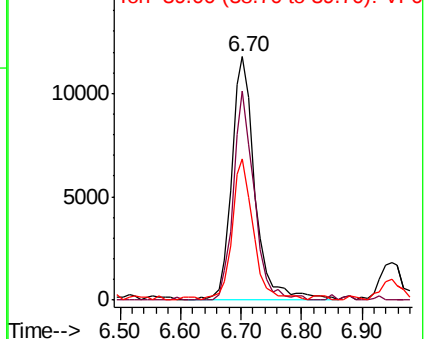
41 100

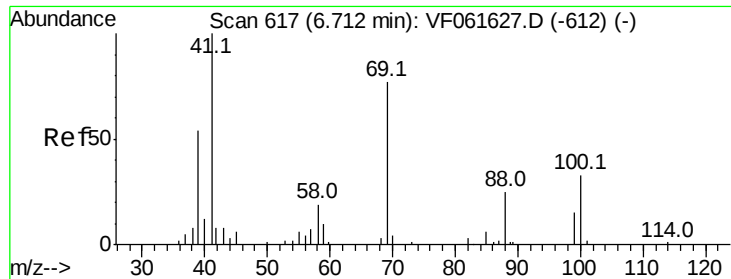
69 85.6 60.4 90.6

39 57.8 43.7 65.5



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 399.464 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

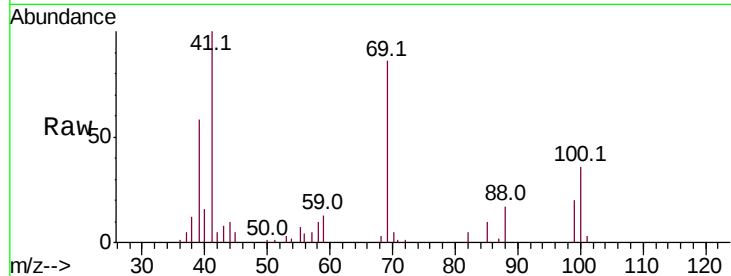
Tot Ion: 88 Resp: 5568

Ion Ratio Lower Upper

88 100

43 49.2 32.3 48.5#

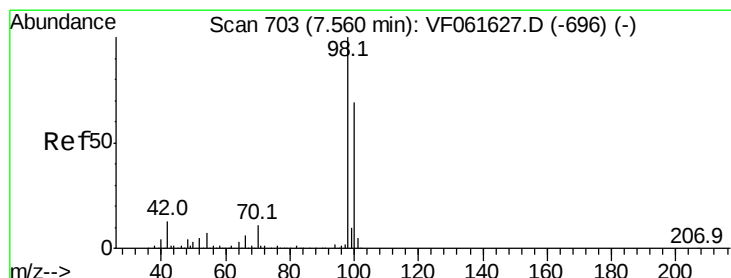
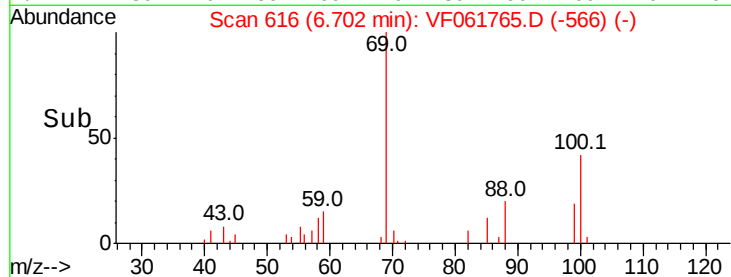
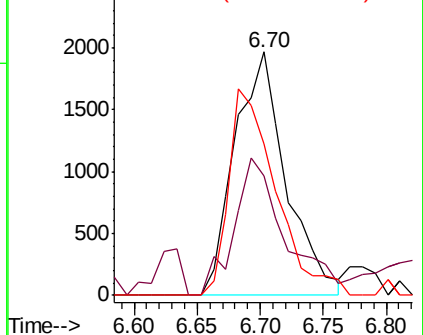
58 62.3 59.4 89.2



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: 57.145 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061765.D

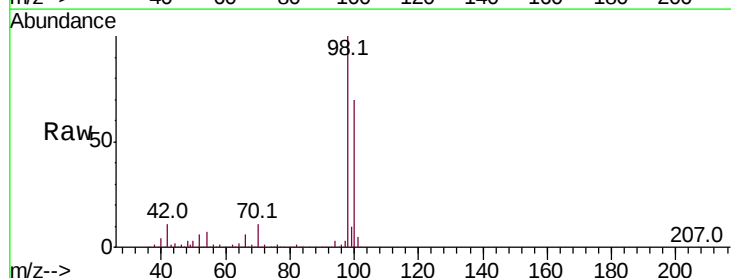
Acq: 27 Feb 2019 14:40

Tgt Ion: 98 Resp: 551883

Ion Ratio Lower Upper

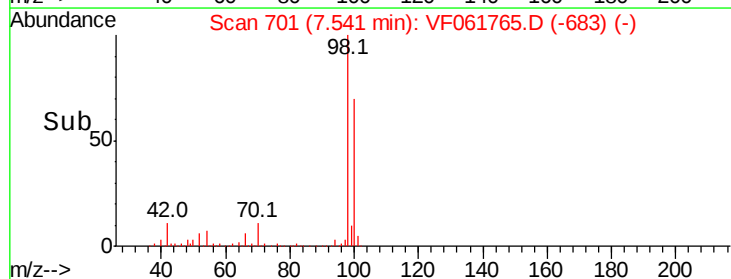
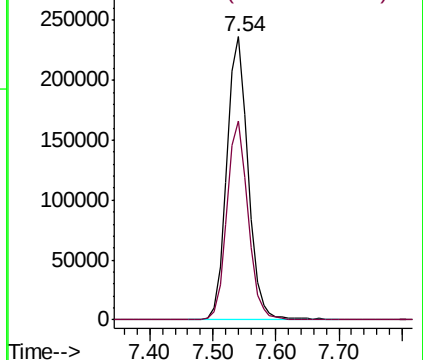
98 100

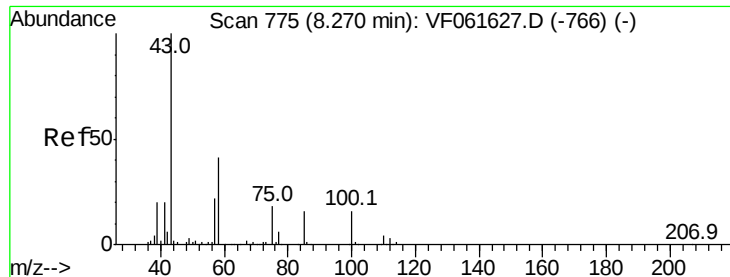
100 70.2 55.4 83.2



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: 101.106 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

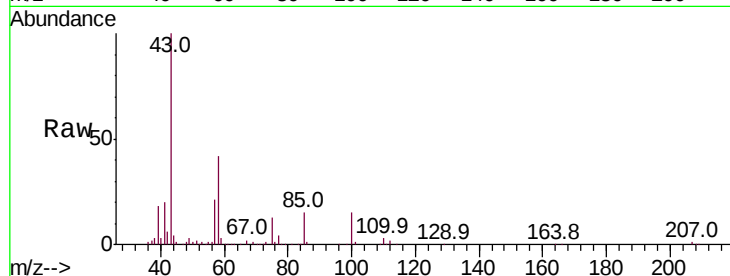
ClientSampleId :

Tot Ion: 43 Resp: 178002

Ion Ratio Lower Upper

43 100

58 42.3 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

60000

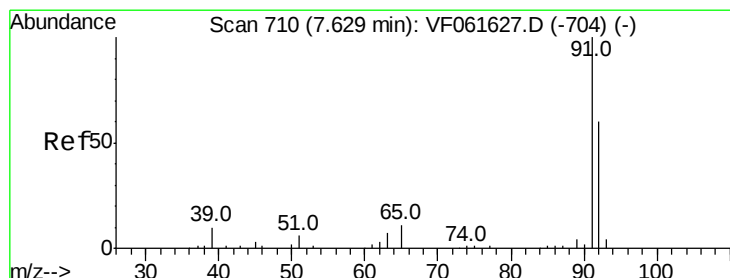
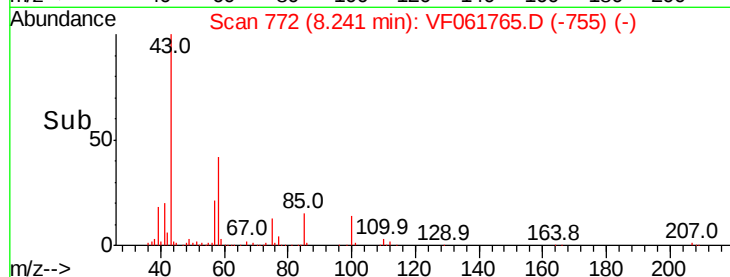
40000

20000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 21.769 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061765.D

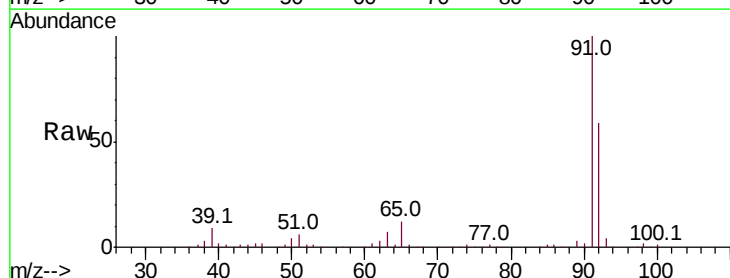
Acq: 27 Feb 2019 14:40

Tgt Ion: 92 Resp: 154763

Ion Ratio Lower Upper

92 100

91 169.1 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.61

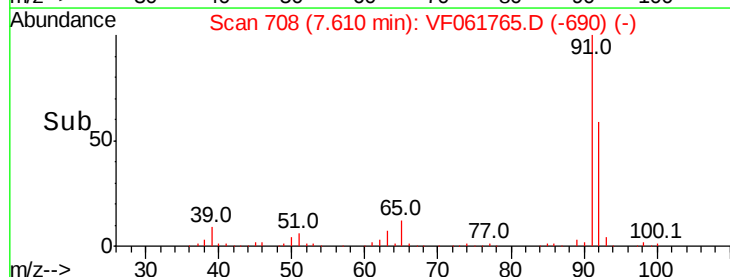
100000

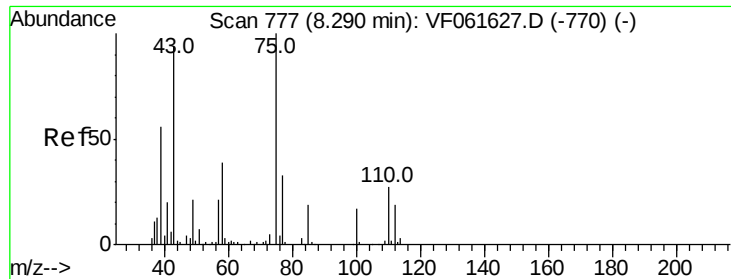
50000

0

7.50 7.60 7.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 23.056 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

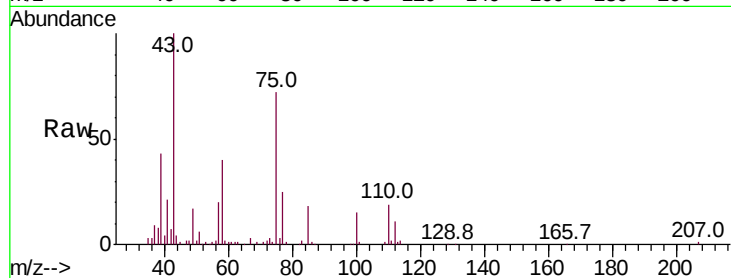
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 73310

Ion Ratio Lower Upper

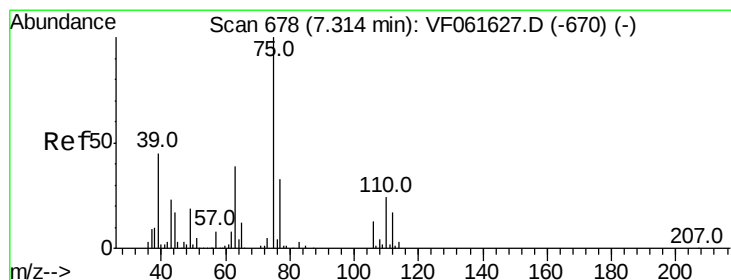
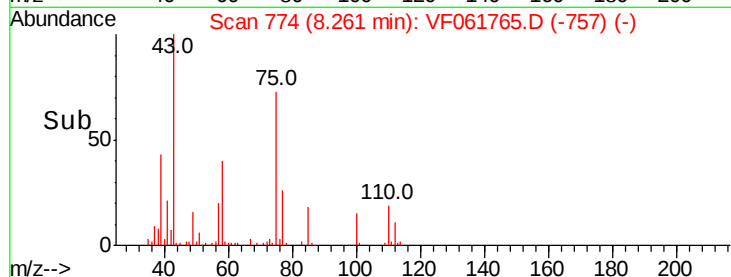
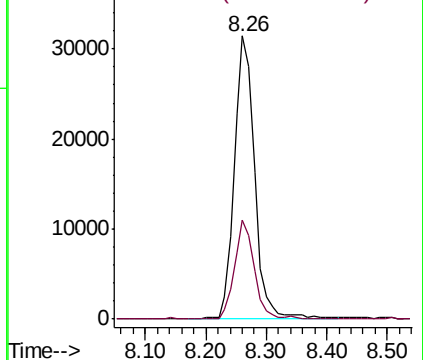
75 100

77 35.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 22.883 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

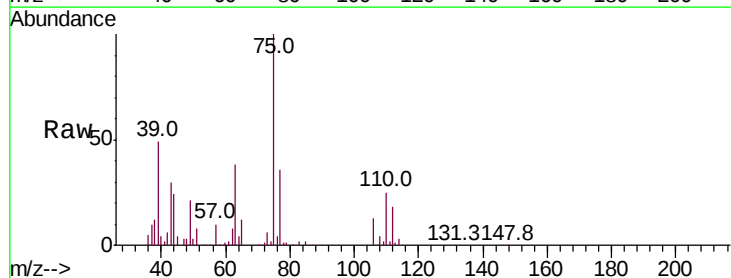
Tgt Ion: 75 Resp: 96914

Ion Ratio Lower Upper

75 100

77 36.5 26.4 39.6

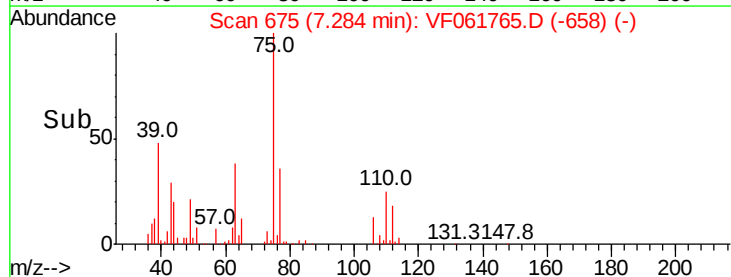
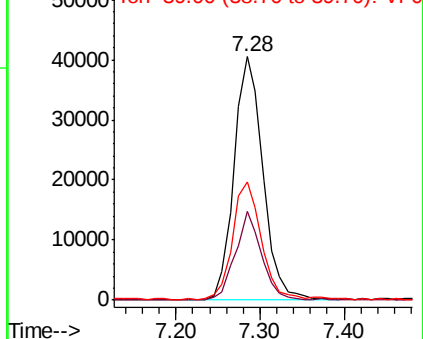
39 48.6 36.0 54.0

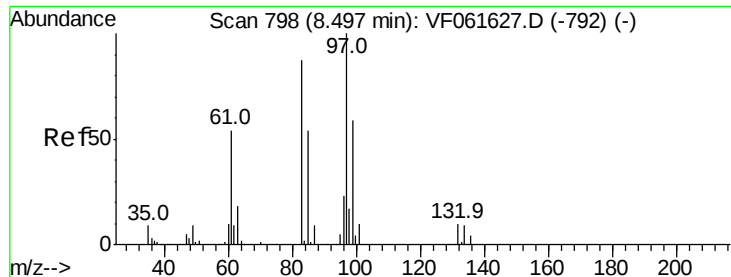


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 20.929 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 97 Resp: 43717

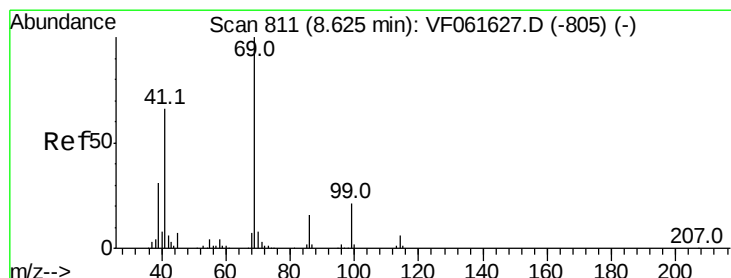
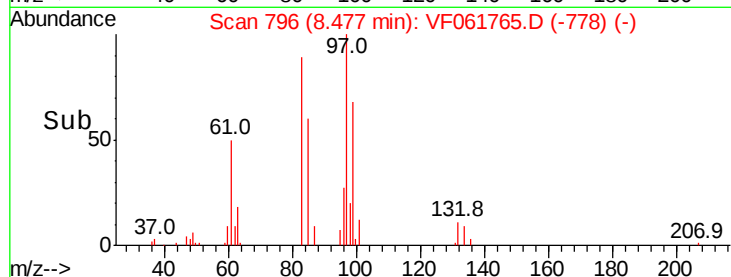
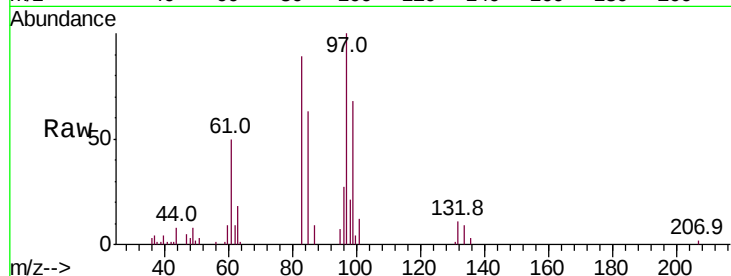
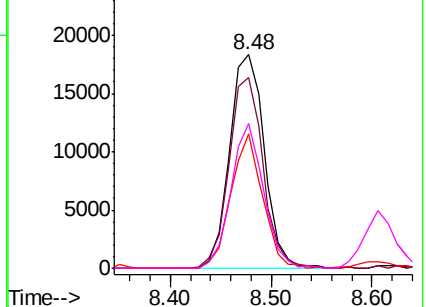
Ion	Ratio	Lower	Upper
97	100		
83	89.2	69.2	103.8
85	62.8	43.0	64.4
99	67.9	47.2	70.8

Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 21.812 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

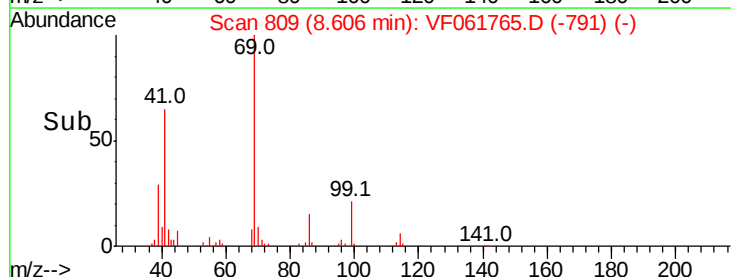
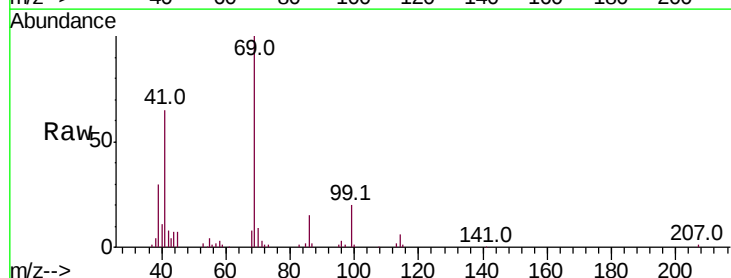
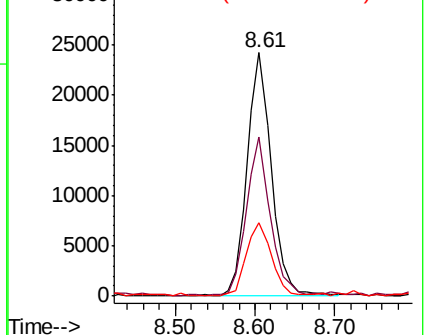
Tgt Ion: 69 Resp: 50725

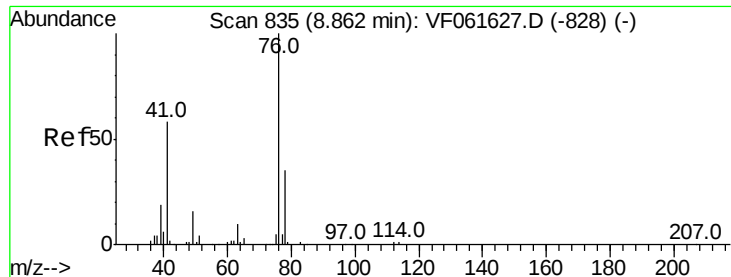
Ion	Ratio	Lower	Upper
69	100		
41	65.4	52.9	79.3
39	30.4	24.5	36.7

Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.619 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

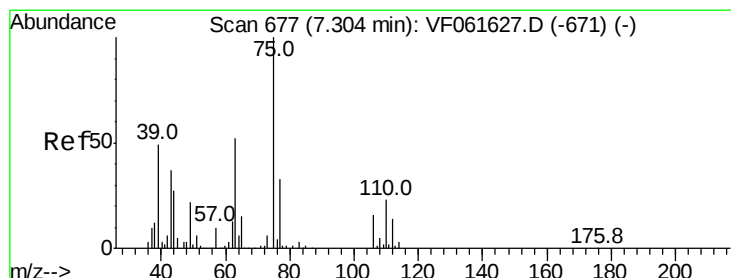
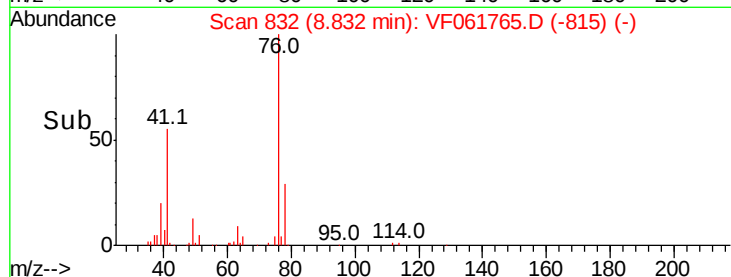
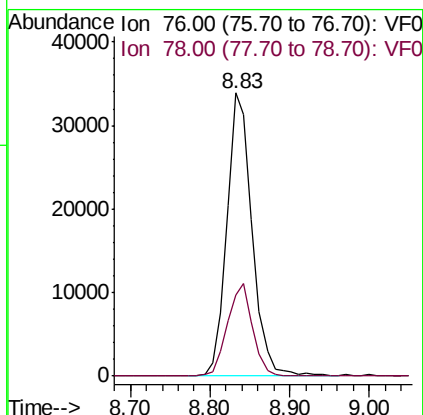
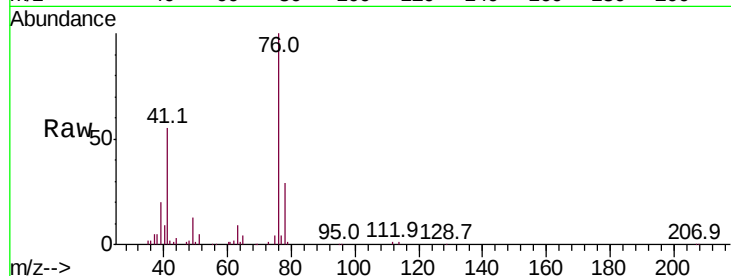
ClientSampleId :

Tot Ion: 76 Resp: 75374

Ion Ratio Lower Upper

76 100

78 28.5 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 97.302 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061765.D

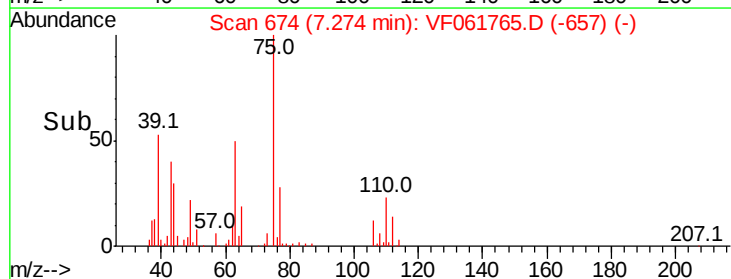
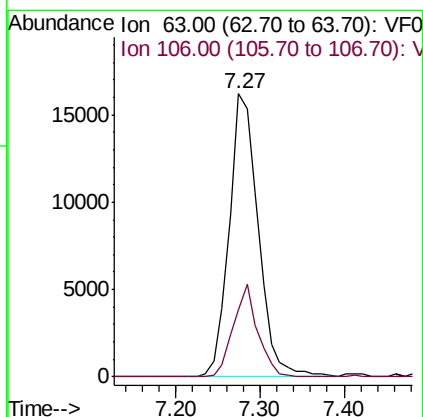
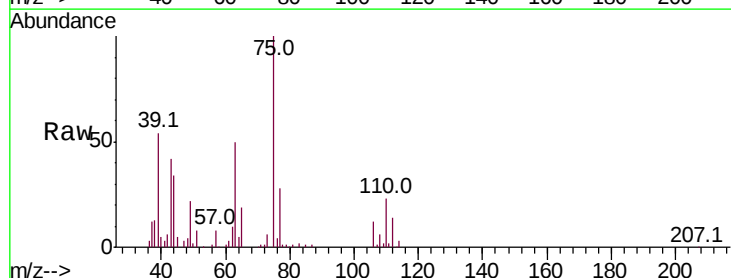
Acq: 27 Feb 2019 14:40

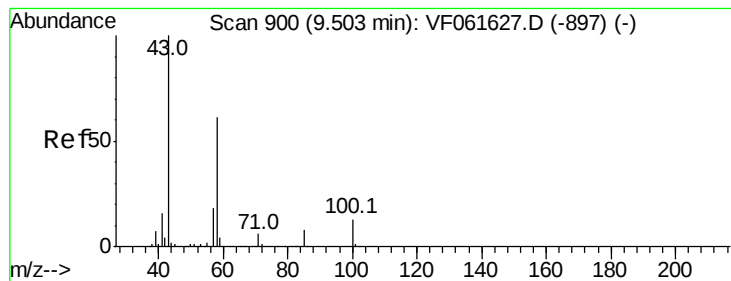
Tgt Ion: 63 Resp: 39042

Ion Ratio Lower Upper

63 100

106 23.5 24.6 36.8#





#59

2-Hexanone

Concen: 107.884 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

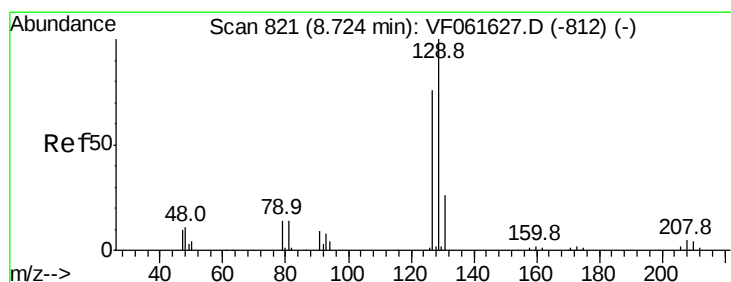
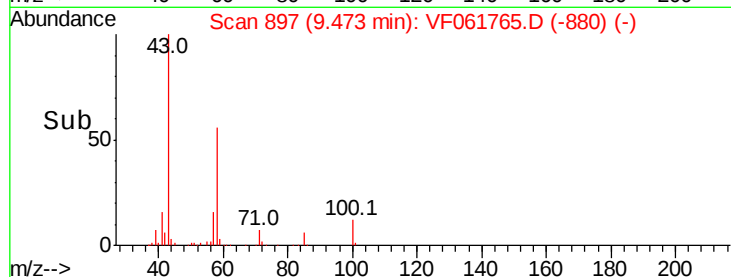
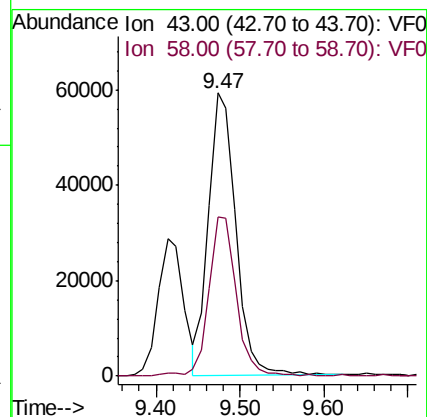
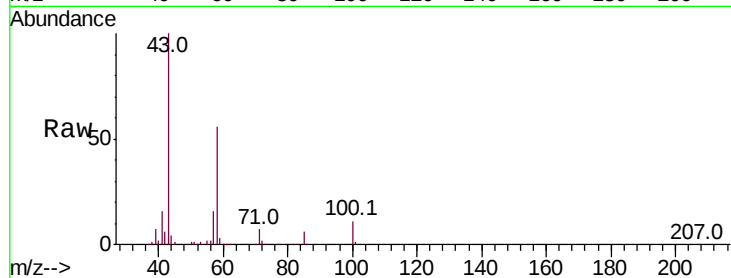
ClientSampleId :

Tot Ion: 43 Resp: 133139

Ion Ratio Lower Upper

43 100

58 56.4 28.5 85.5



#60

Dibromochloromethane

Concen: 21.850 ug/l

RT: 8.70 min Scan# 819

Delta R.T. -0.02 min

Lab File: VF061765.D

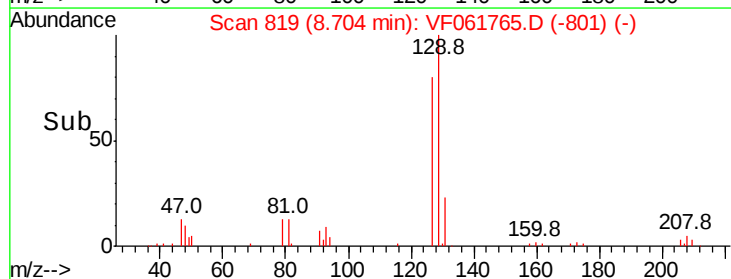
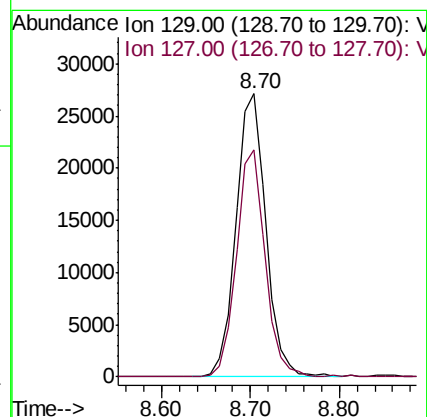
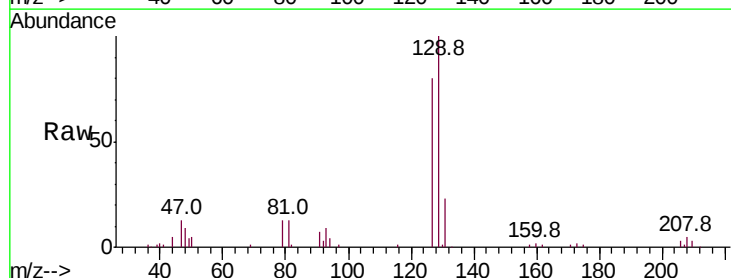
Acq: 27 Feb 2019 14:40

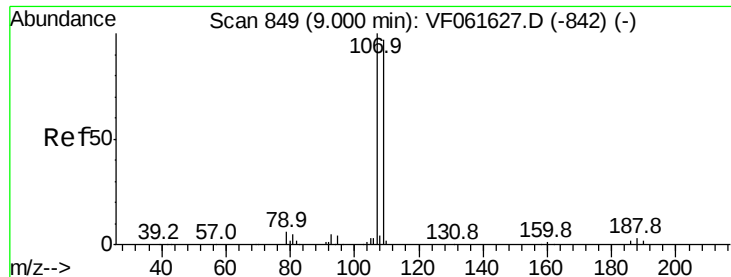
Tgt Ion: 129 Resp: 63524

Ion Ratio Lower Upper

129 100

127 80.2 37.8 113.4





#61

1,2-Dibromoethane

Concen: 21.707 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

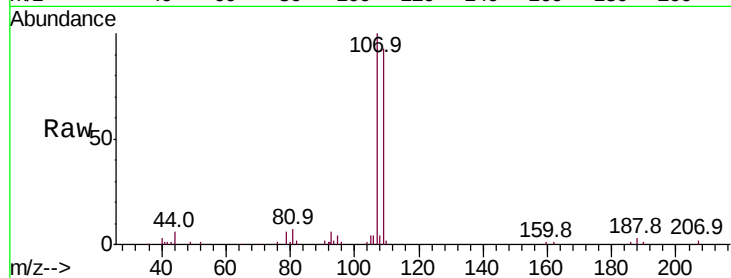
ClientSampleId :

Tot Ion:107 Resp: 49178

Ion Ratio Lower Upper

107 100

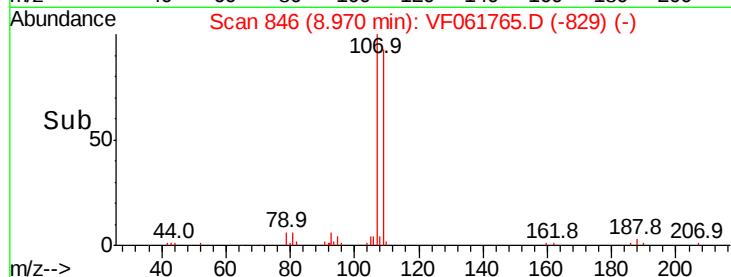
109 92.6 77.4 116.0



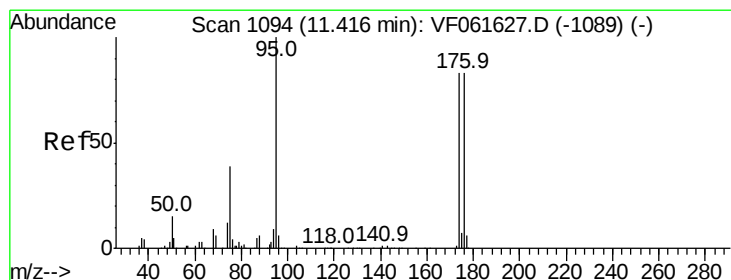
Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97



Time-->



#62

4-Bromofluorobenzene

Concen: 56.752 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

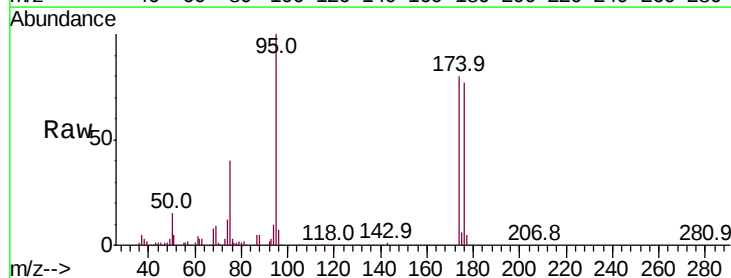
Tgt Ion: 95 Resp: 221769

Ion Ratio Lower Upper

95 100

174 80.2 0.0 165.8

176 76.9 0.0 167.0

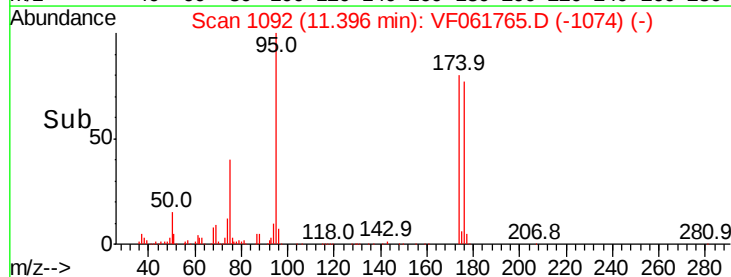


Abundance Ion 95.00 (94.70 to 95.70): VF0

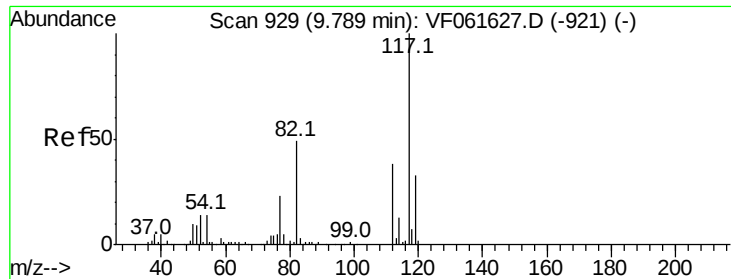
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.40



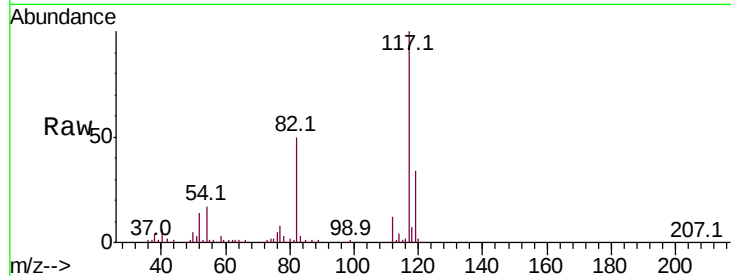
Time-->



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.1	39.3	58.9
119	33.7	26.6	40.0

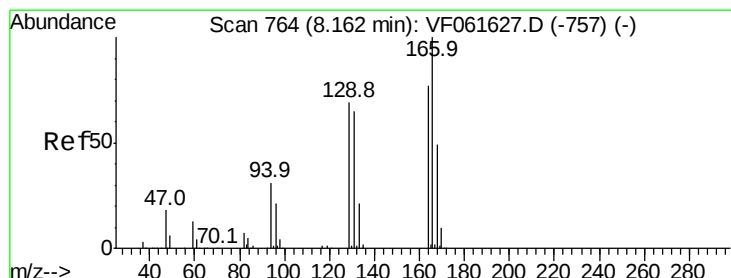
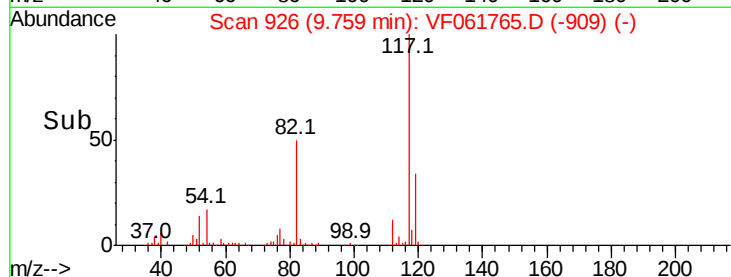
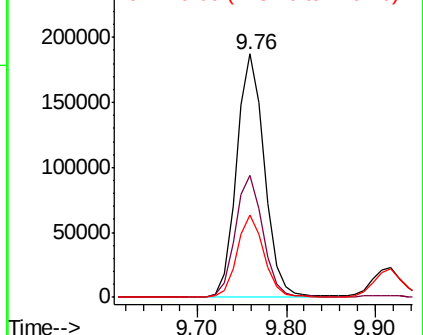


Abundance

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: 21.422 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.6	103.9	155.9
129	87.0	71.3	106.9
131	82.0	67.1	100.7

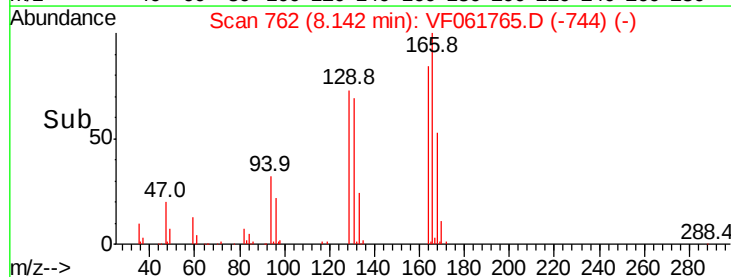
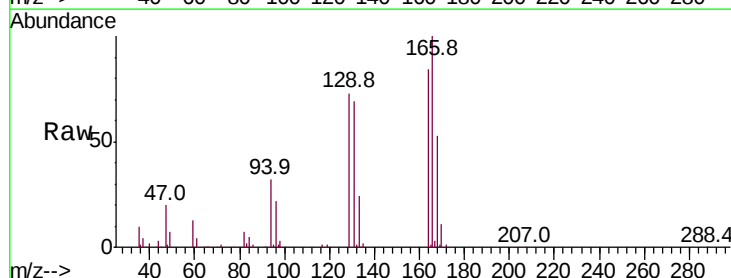
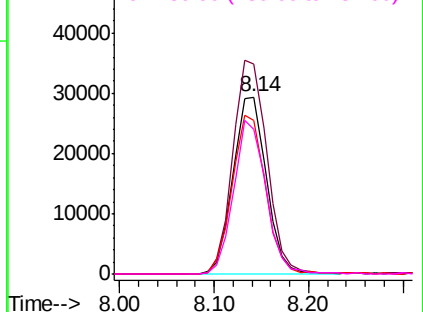
Abundance

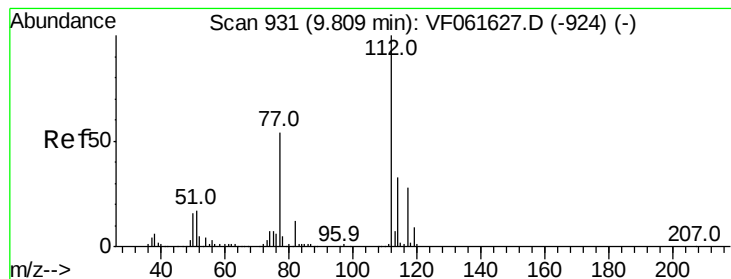
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 21.505 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

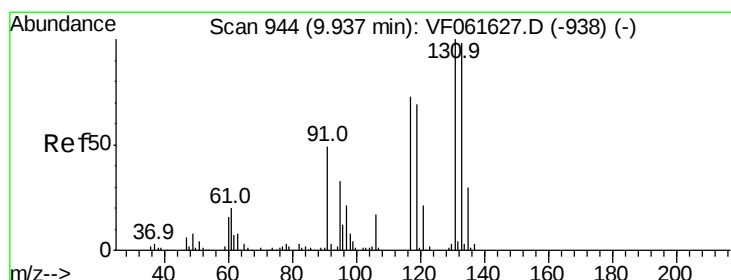
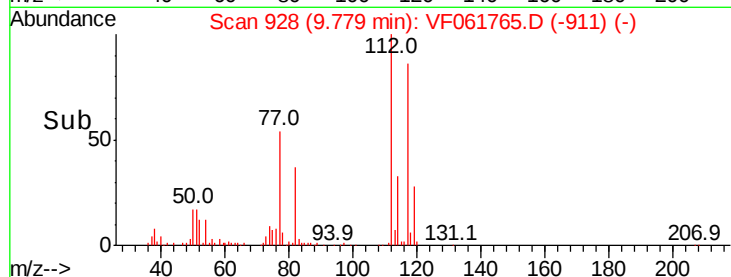
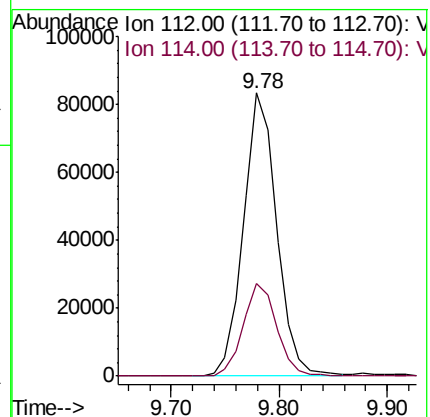
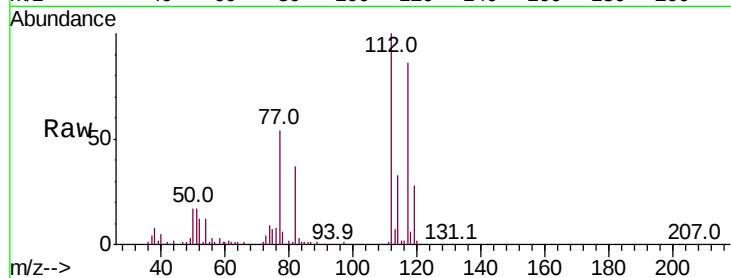
ClientSampleId :

Tot Ion:112 Resp: 178537

Ion Ratio Lower Upper

112 100

114 32.6 26.2 39.2



#66

1,1,1,2-Tetrachloroethane

Concen: 21.268 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

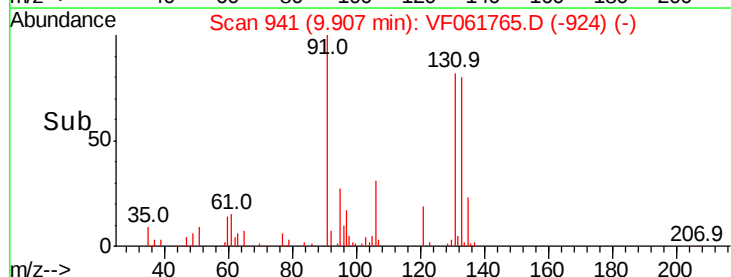
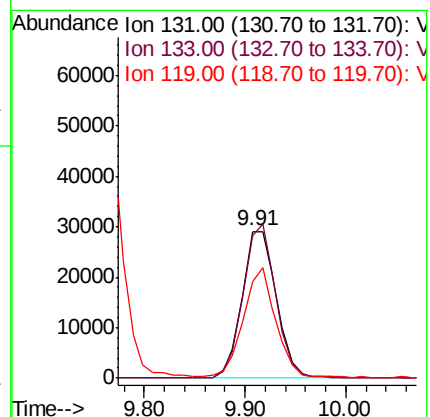
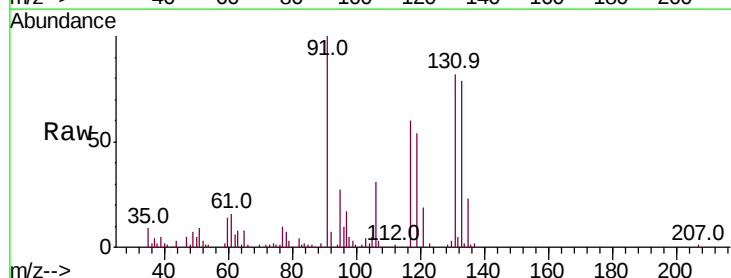
Tgt Ion:131 Resp: 69188

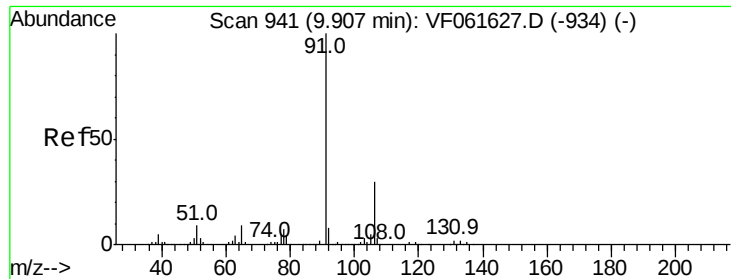
Ion Ratio Lower Upper

131 100

133 96.8 48.9 146.6

119 65.5 34.8 104.3





#67

Ethyl Benzene

Concen: 21.879 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

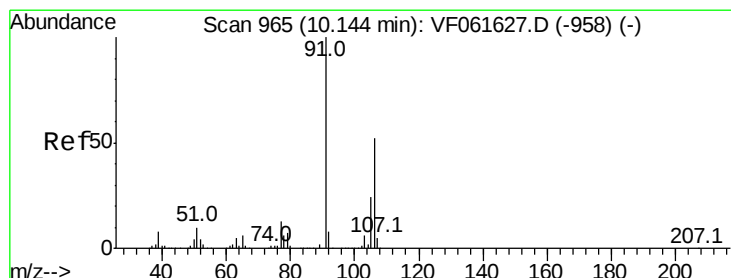
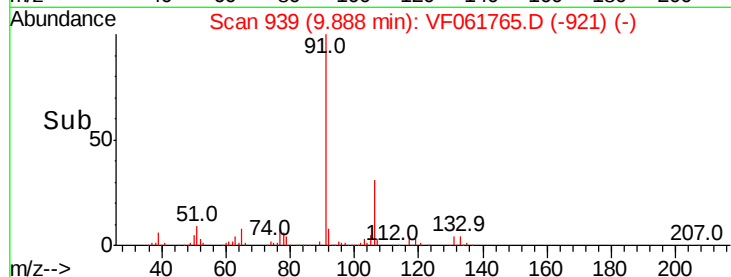
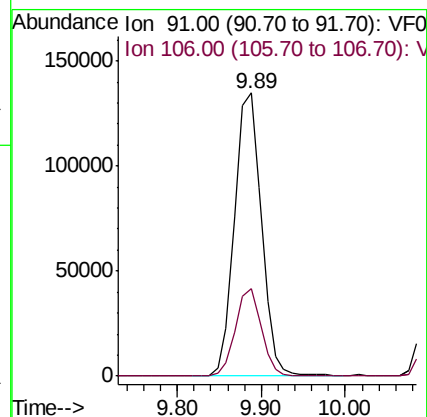
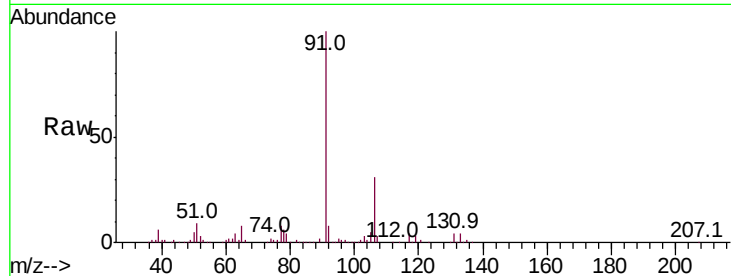
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 302068

Ion Ratio Lower Upper

91 100

106 31.0 24.1 36.1



#68

m/p-Xylenes

Concen: 43.680 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061765.D

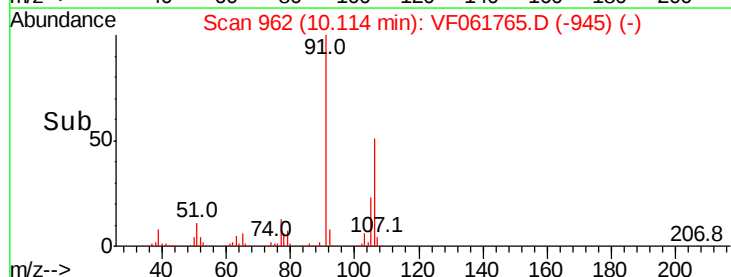
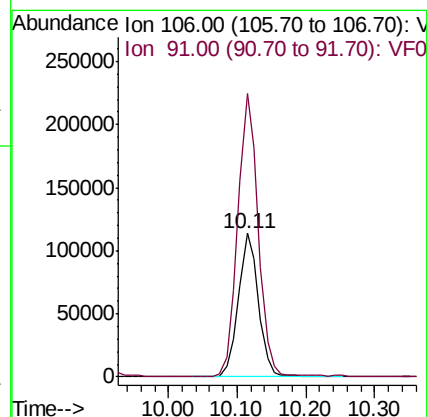
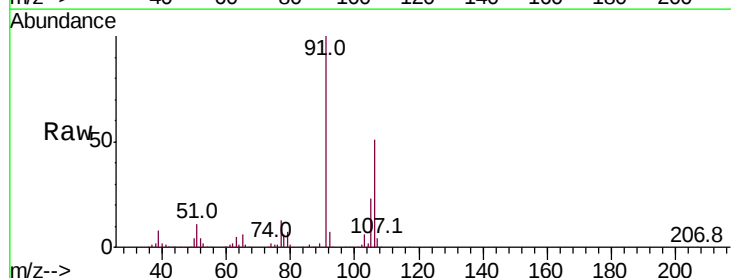
Acq: 27 Feb 2019 14:40

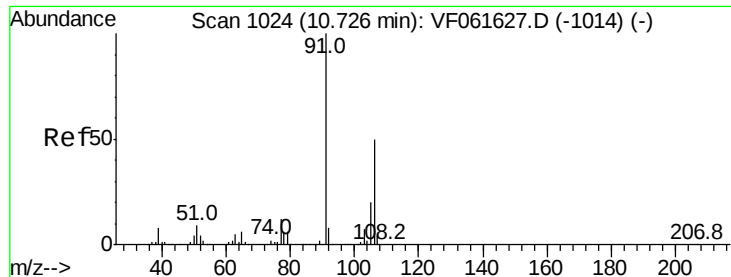
Tgt Ion:106 Resp: 230797

Ion Ratio Lower Upper

106 100

91 197.4 153.0 229.6

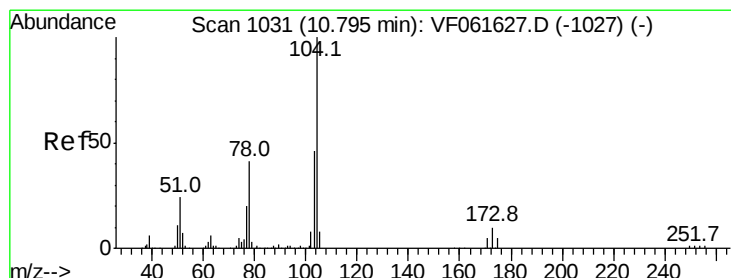
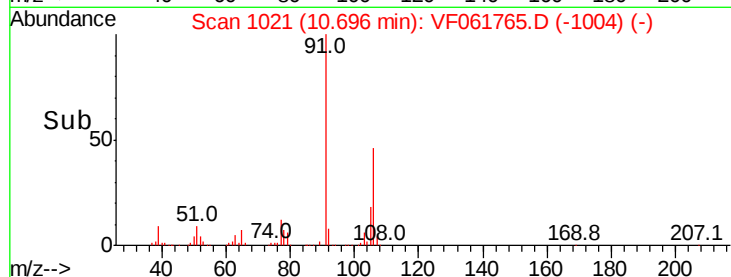
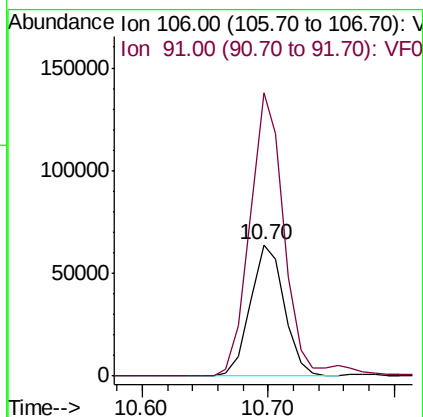
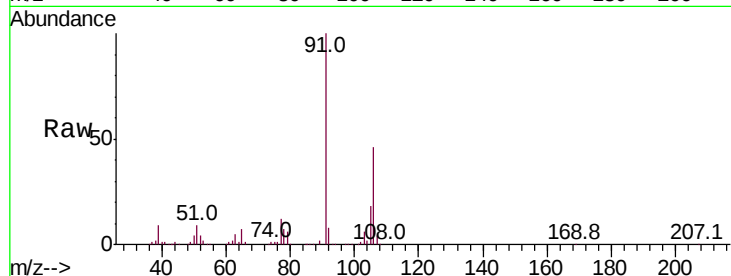




#69
o-Xylene
Concen: 21.387 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

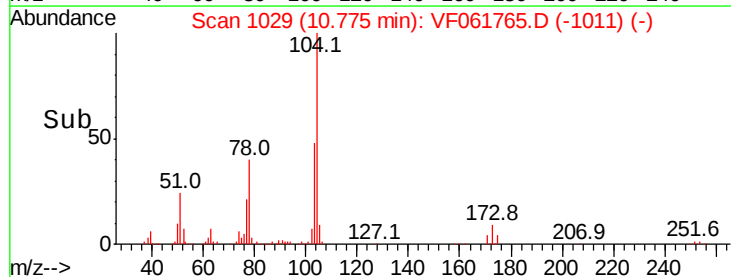
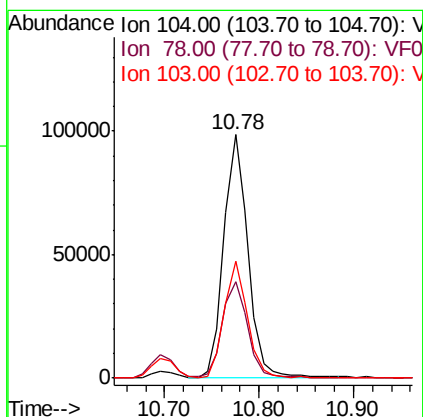
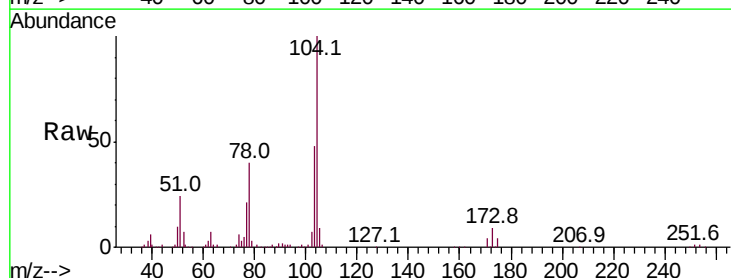
Instrument :
MSVOA_F
ClientSampleId :

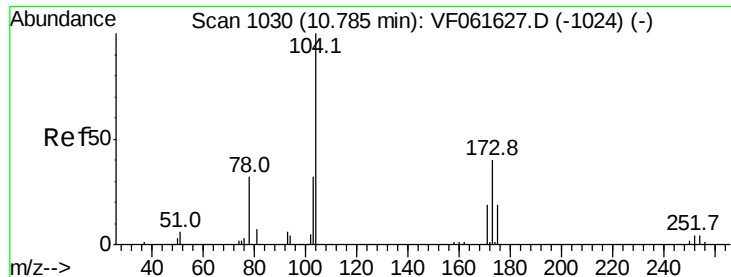
Tot Ion:106 Resp: 120582
Ion Ratio Lower Upper
106 100
91 215.5 100.1 300.1



#70
Styrene
Concen: 21.675 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion:104 Resp: 172883
Ion Ratio Lower Upper
104 100
78 39.7 33.2 49.8
103 47.9 37.2 55.8





#71

Bromoform

Concen: 20.365 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

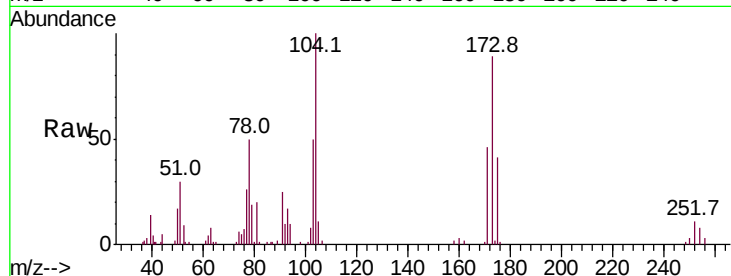
Tot Ion:173 Resp: 35976

Ion Ratio Lower Upper

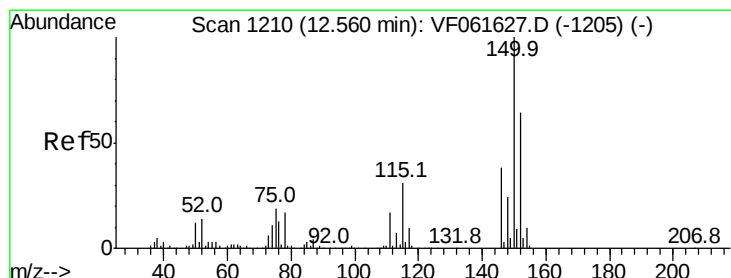
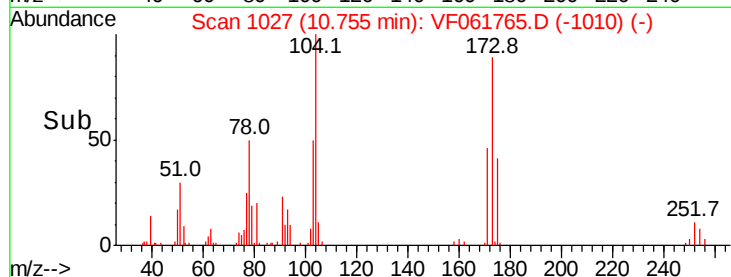
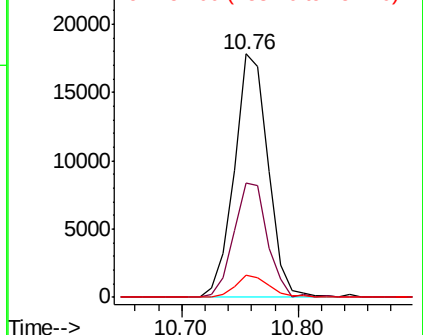
173 100

175 47.1 24.0 72.0

254 8.9 8.2 12.2



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

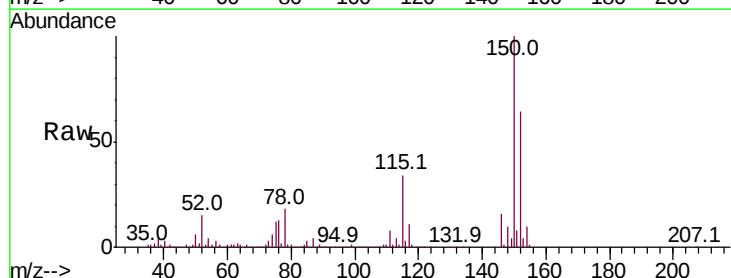
Tgt Ion:152 Resp: 231417

Ion Ratio Lower Upper

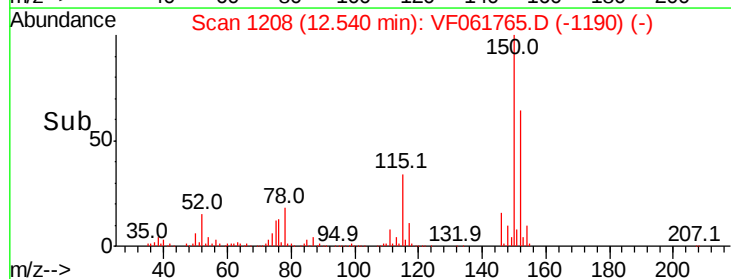
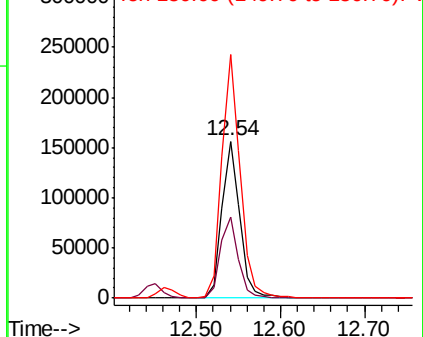
152 100

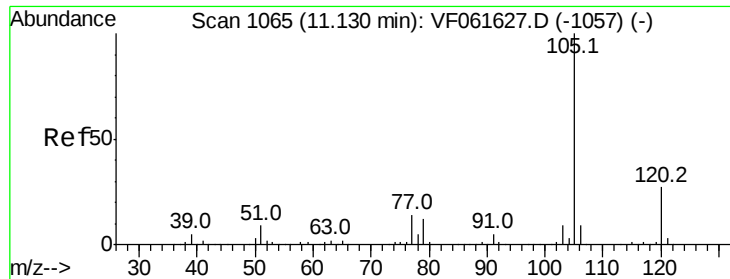
115 52.0 24.3 72.8

150 155.2 0.0 312.0



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.416 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

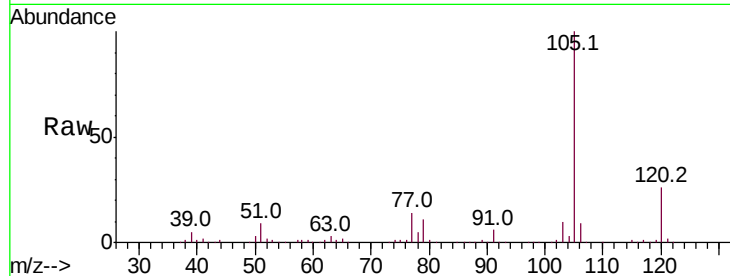
ClientSampleId :

Tot Ion:105 Resp: 352864

Ion Ratio Lower Upper

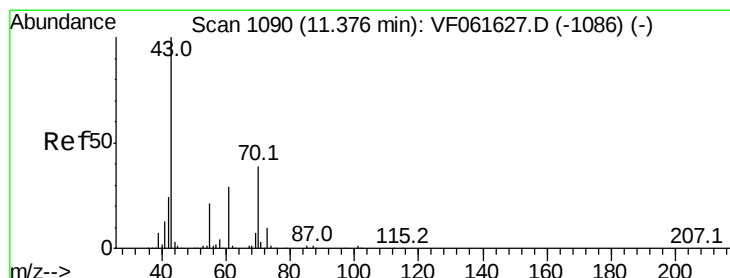
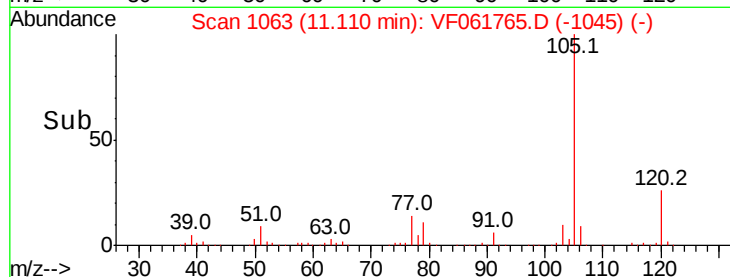
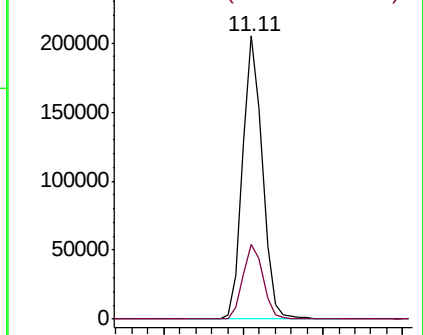
105 100

120 26.5 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.153 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Tgt Ion: 43 Resp: 79700

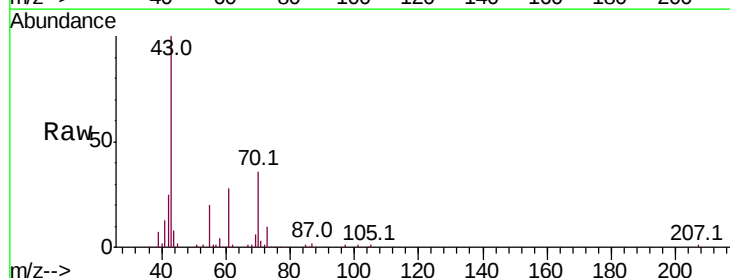
Ion Ratio Lower Upper

43 100

70 36.0 31.5 47.3

55 19.6 16.7 25.1

61 28.4 23.0 34.6

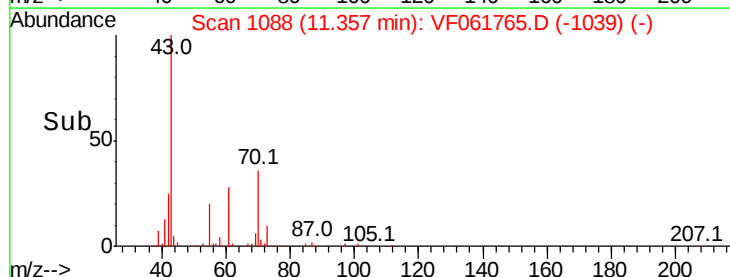
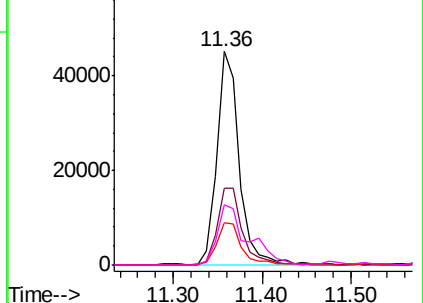


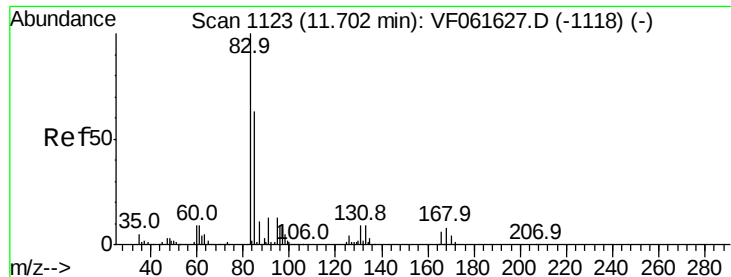
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.487 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

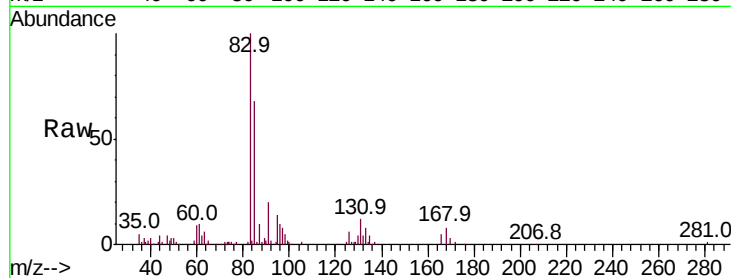
Tot Ion: 83 Resp: 57522

Ion Ratio Lower Upper

83 100

131 11.6 4.4 13.2

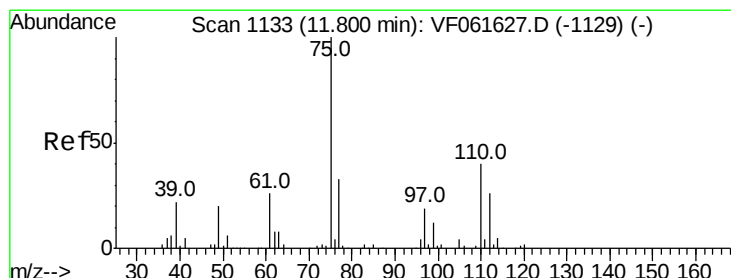
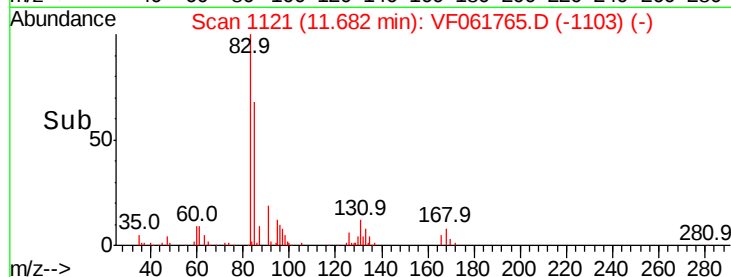
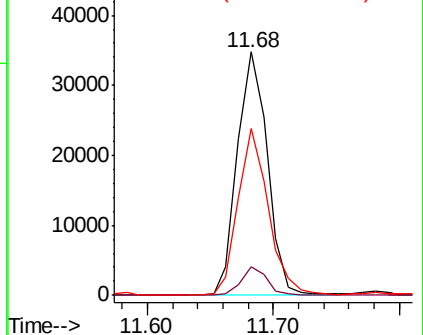
85 68.4 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.842 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061765.D

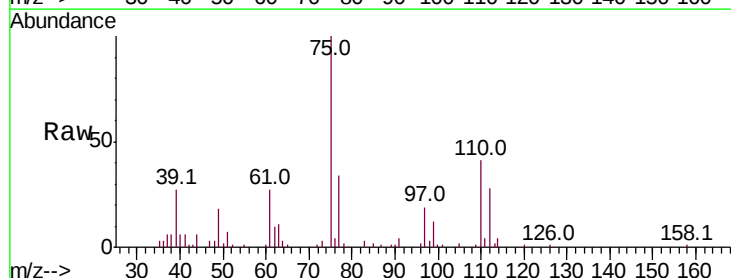
Acq: 27 Feb 2019 14:40

Tgt Ion: 75 Resp: 39820

Ion Ratio Lower Upper

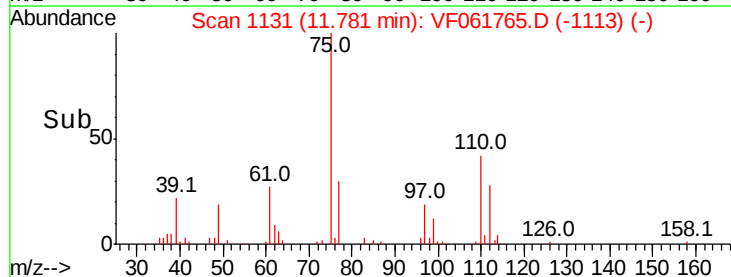
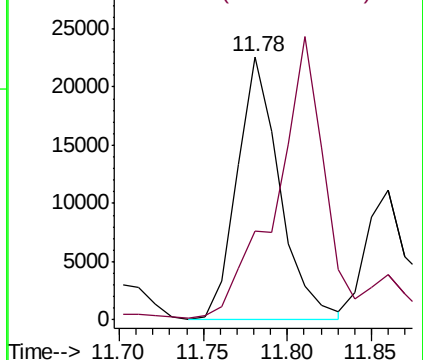
75 100

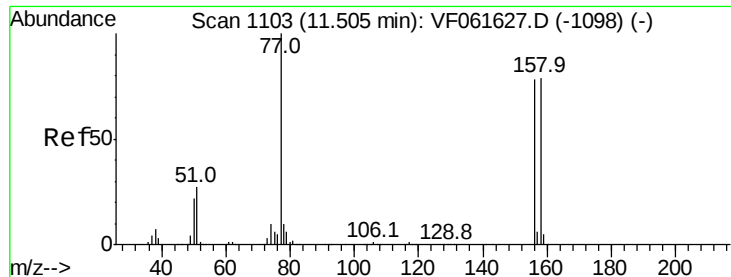
77 33.8 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.004 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

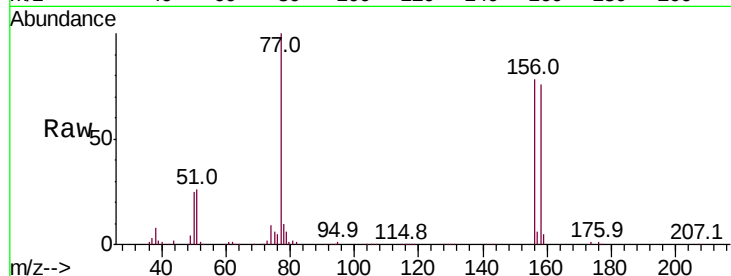
Tot Ion:156 Resp: 85496

Ion Ratio Lower Upper

156 100

77 128.4 64.3 192.7

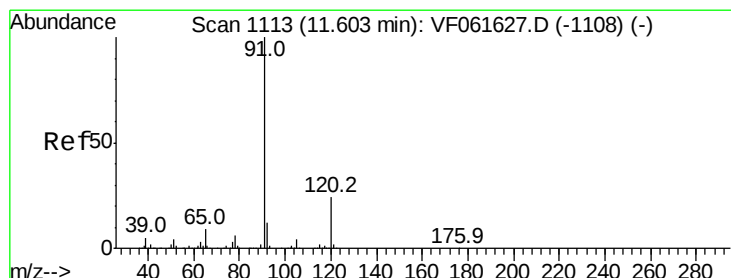
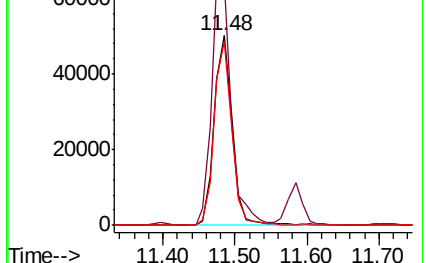
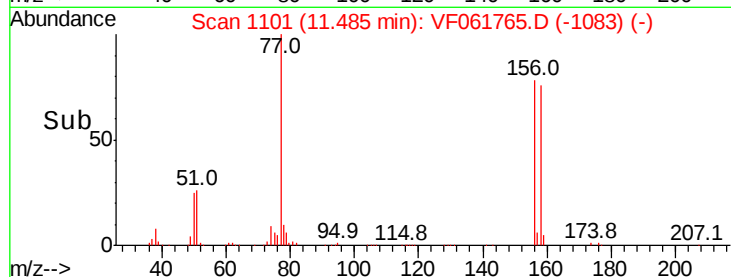
158 97.2 50.9 152.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 22.016 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF061765.D

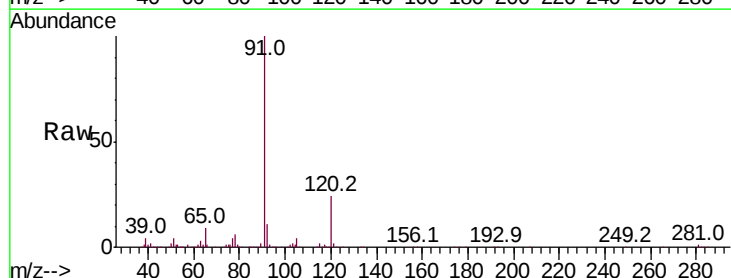
Acq: 27 Feb 2019 14:40

Tgt Ion: 91 Resp: 416259

Ion Ratio Lower Upper

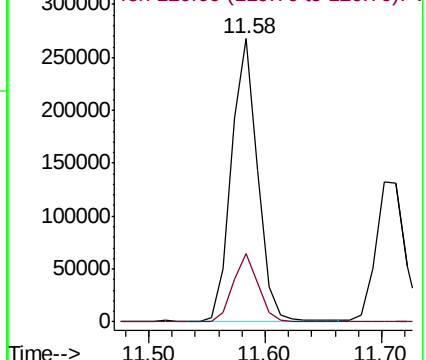
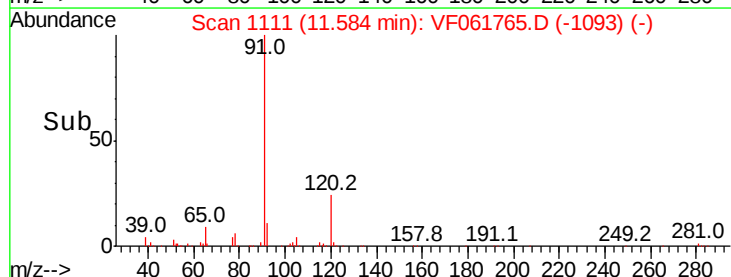
91 100

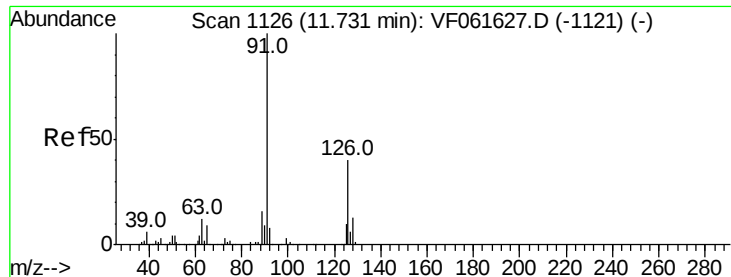
120 24.1 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.313 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

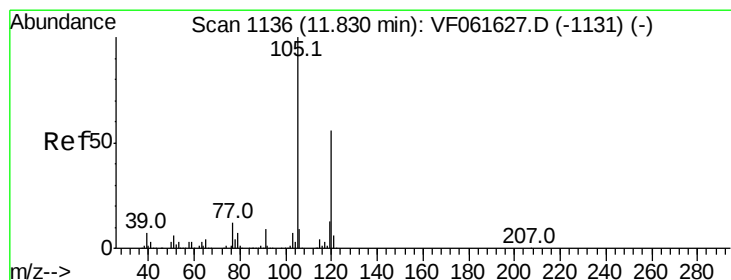
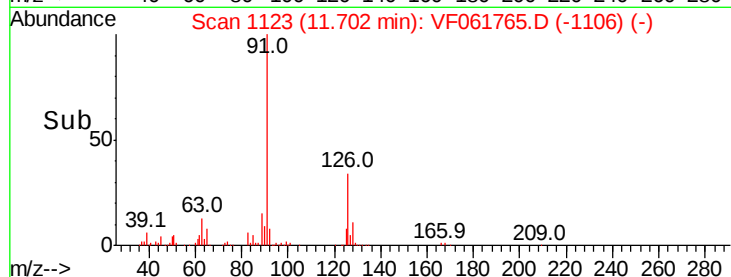
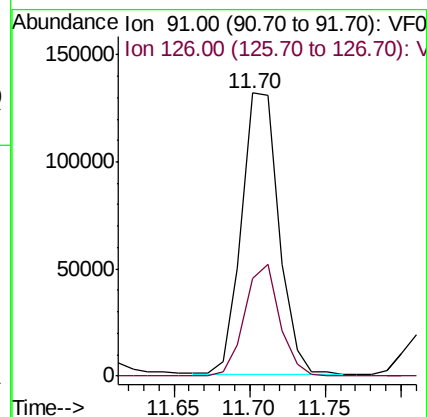
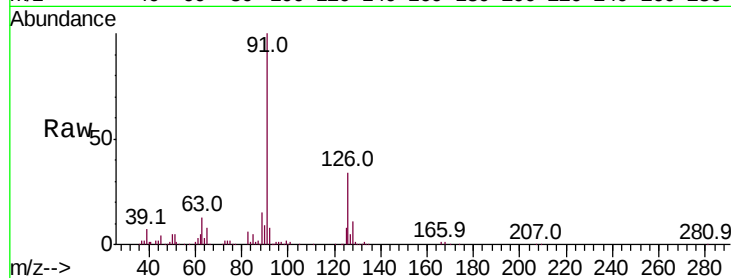
ClientSampleId :

Tot Ion: 91 Resp: 225680

Ion Ratio Lower Upper

91 100

126 34.5 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 22.177 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061765.D

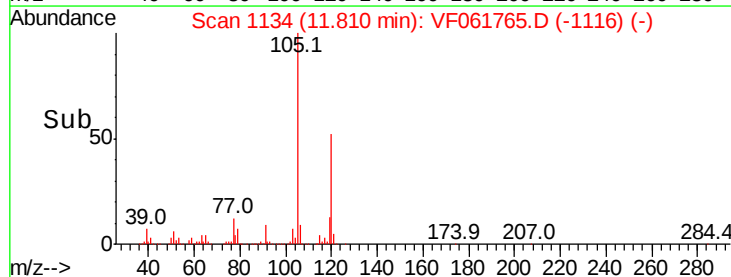
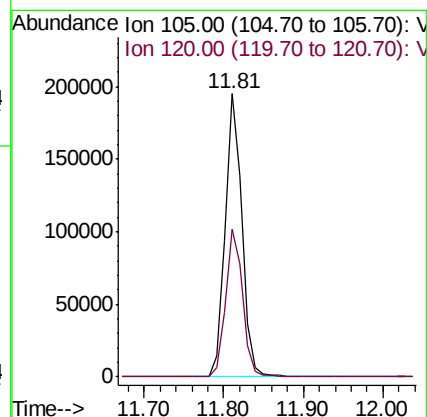
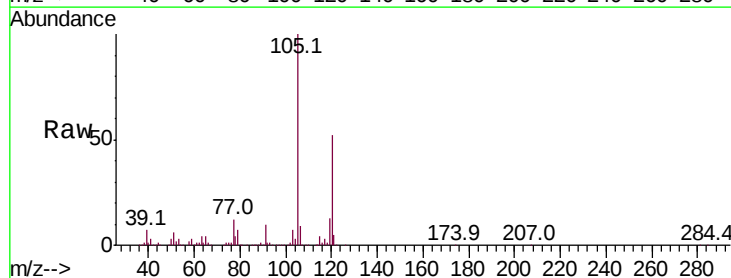
Acq: 27 Feb 2019 14:40

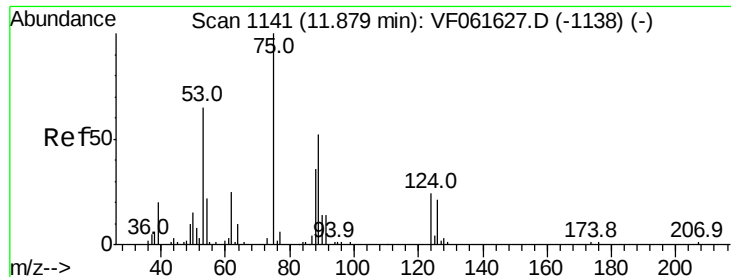
Tgt Ion:105 Resp: 292042

Ion Ratio Lower Upper

105 100

120 52.4 27.9 83.6

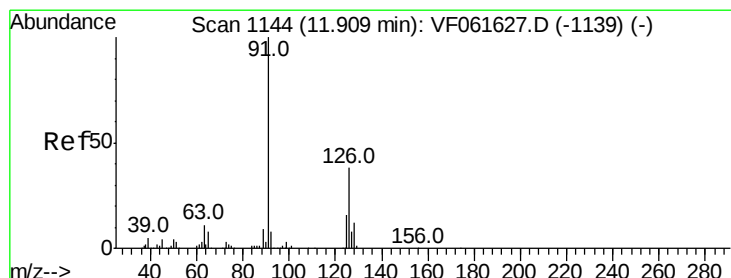
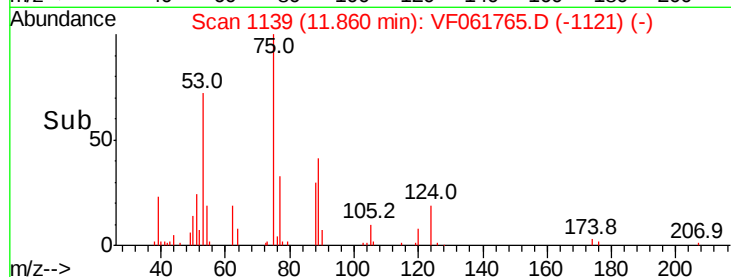
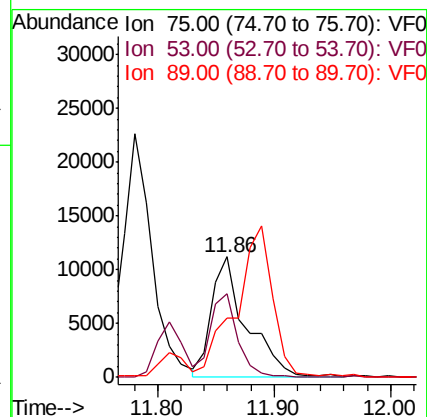
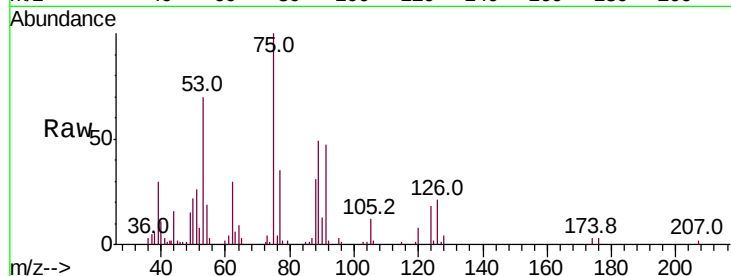




#81
trans-1,4-Dichloro-2-butene
Concen: 24.499 ug/l
RT: 11.86 min Scan# 1139
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

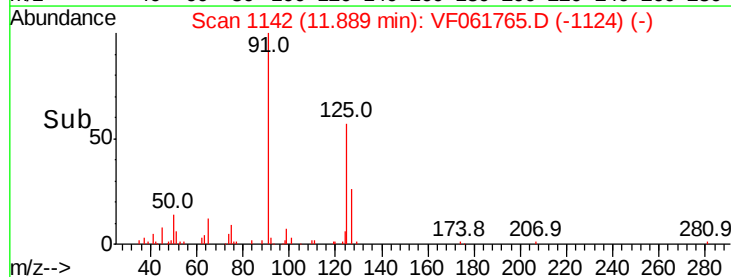
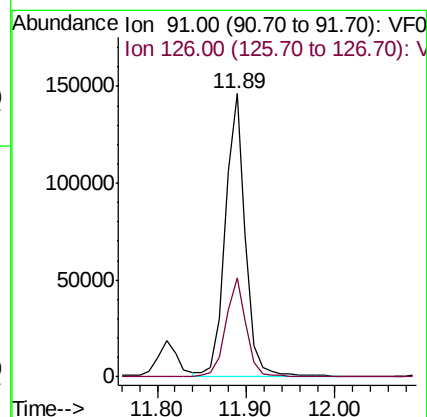
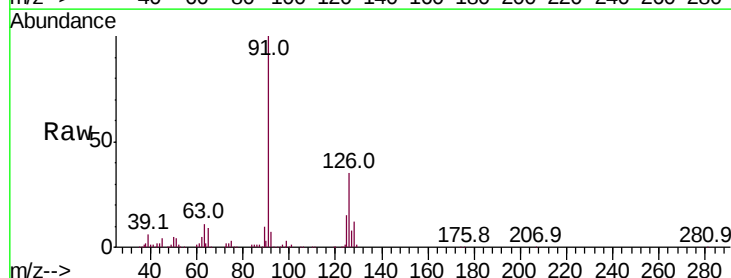
Instrument :
MSVOA_F
ClientSampleId :

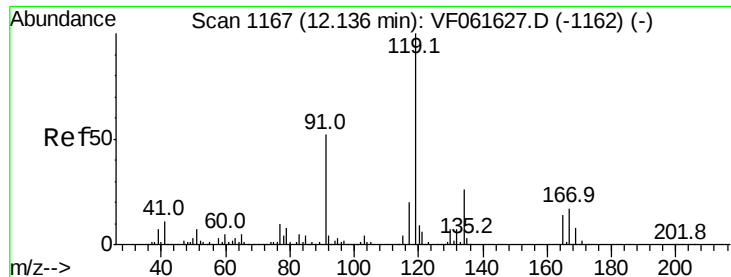
Tot Ion: 75 Resp: 23571
Ion Ratio Lower Upper
75 100
53 69.9 53.7 80.5
89 49.1 41.6 62.4



#82
4-Chlorotoluene
Concen: 20.909 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion: 91 Resp: 229811
Ion Ratio Lower Upper
91 100
126 35.1 19.1 57.1

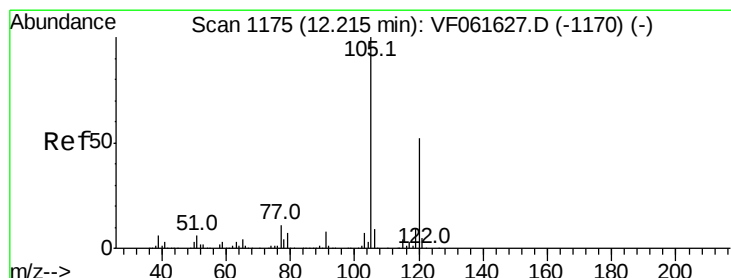
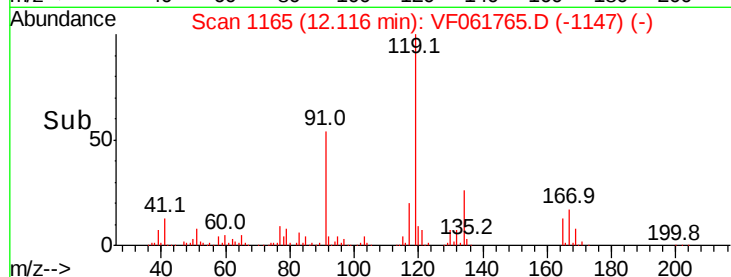
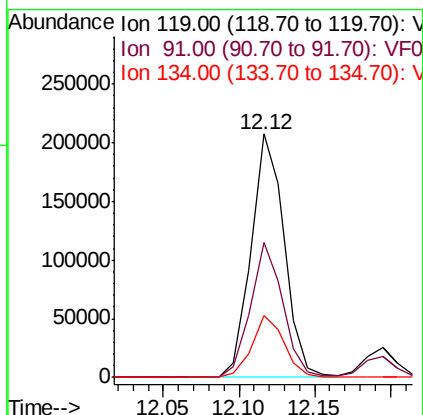
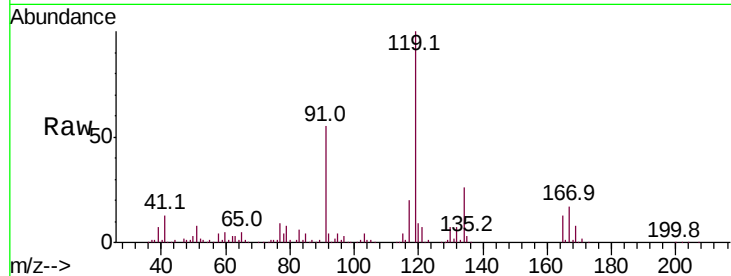




#83
 tert-Butylbenzene
 Concen: 21.775 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

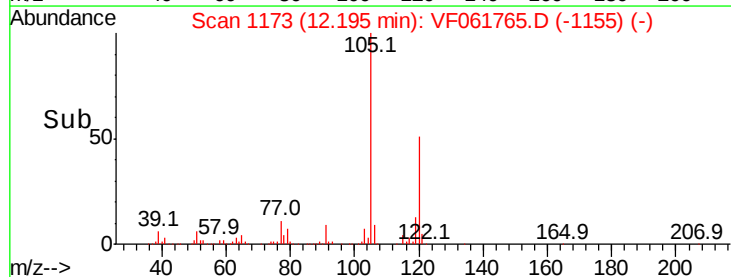
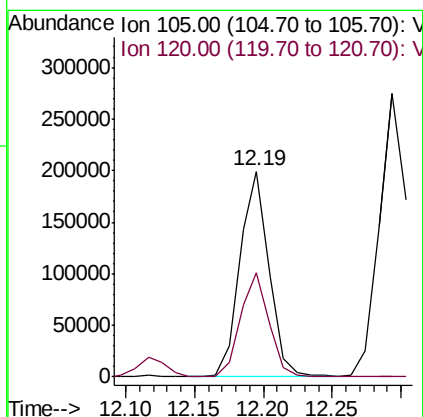
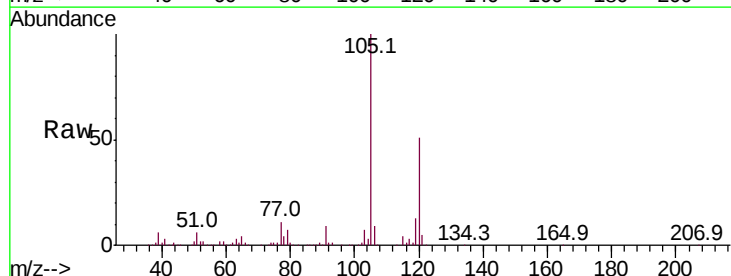
Instrument :
 MSVOA_F
 ClientSampleId :

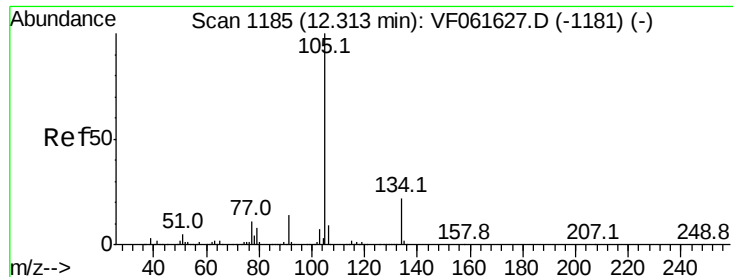
Tot Ion:119 Resp: 317603
 Ion Ratio Lower Upper
 119 100
 91 55.2 26.3 78.8
 134 25.5 12.9 38.7



#84
 1,2,4-Trimethylbenzene
 Concen: 22.408 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

Tgt Ion:105 Resp: 293166
 Ion Ratio Lower Upper
 105 100
 120 50.7 26.1 78.3





#85

sec-Butylbenzene

Concen: 21.046 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

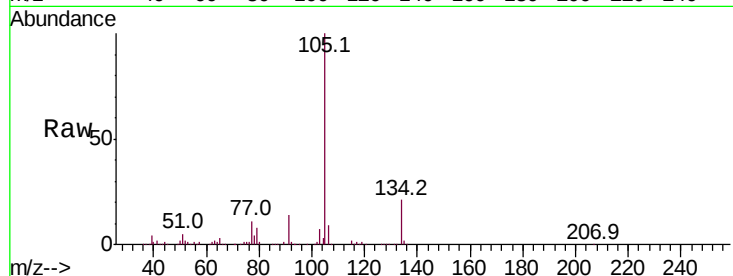
ClientSampleId :

Tot Ion:105 Resp: 396954

Ion Ratio Lower Upper

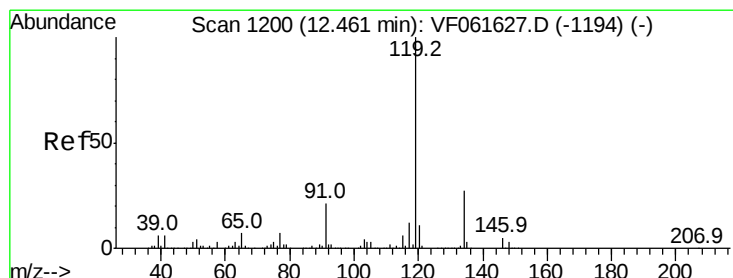
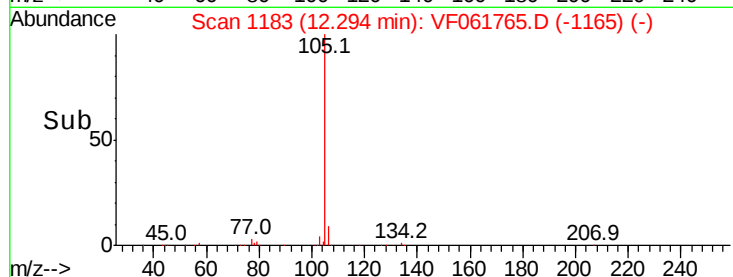
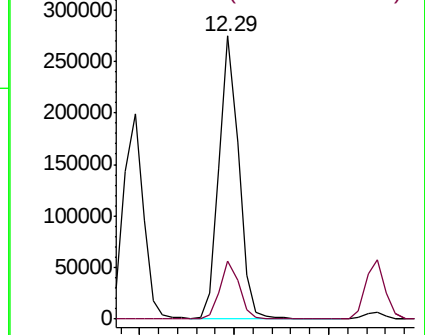
105 100

134 20.7 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.711 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

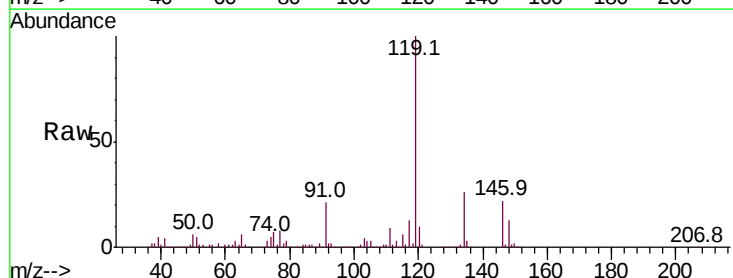
Tgt Ion:119 Resp: 327852

Ion Ratio Lower Upper

119 100

134 26.4 13.7 41.1

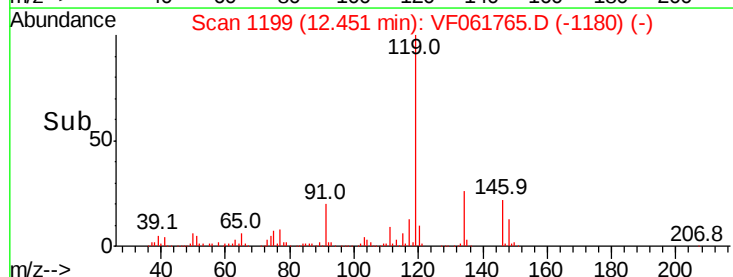
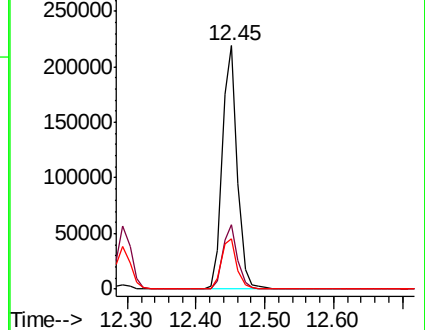
91 20.6 10.8 32.4

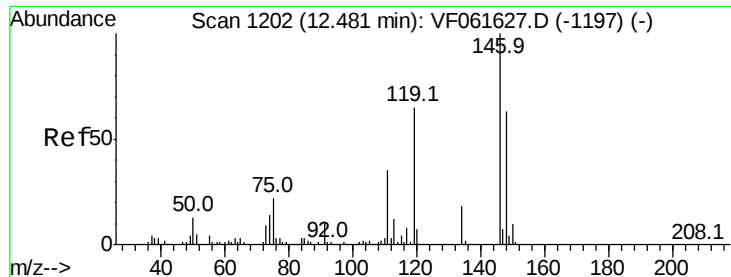


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 20.481 ug/l

RT: 12.46 min Scan# 1200

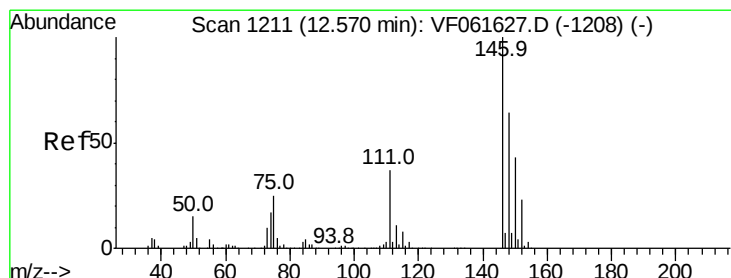
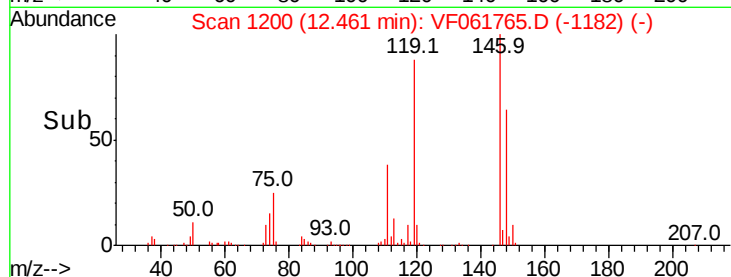
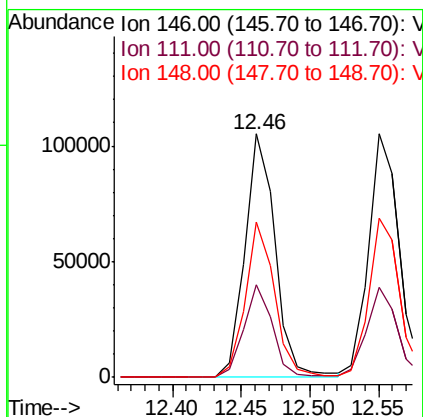
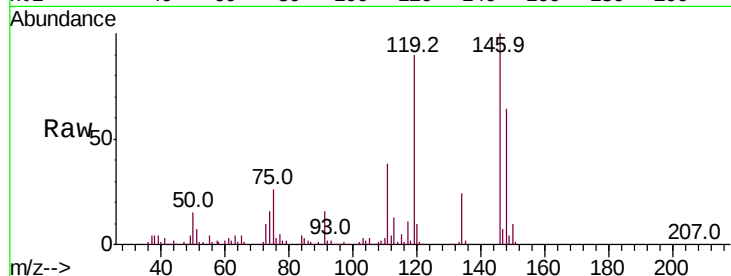
Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	17.5	52.6
148	64.1	31.4	94.3



#88

1,4-Dichlorobenzene

Concen: 21.500 ug/l

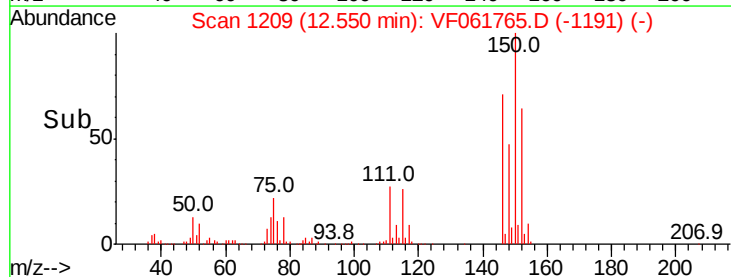
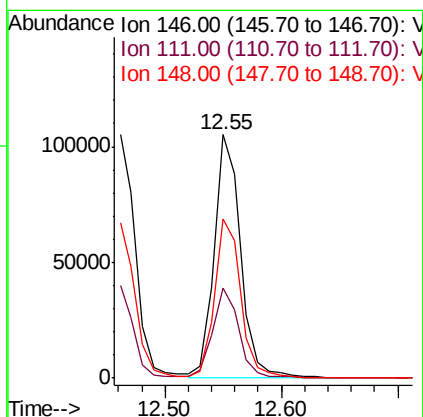
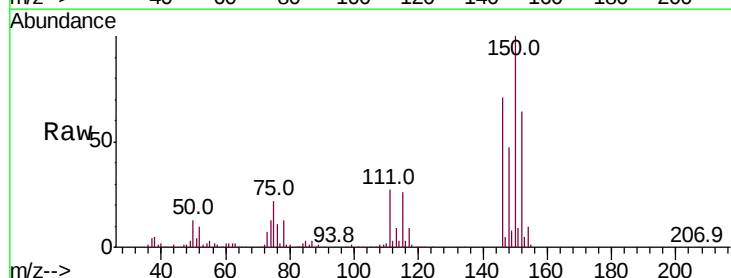
RT: 12.55 min Scan# 1209

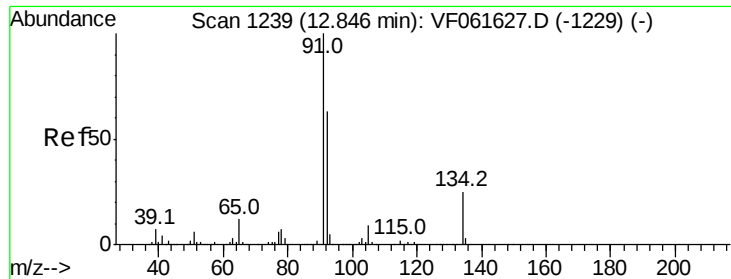
Delta R.T. -0.02 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.4	55.4
148	65.2	32.2	96.6





#89

n-Butylbenzene

Concen: 22.255 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

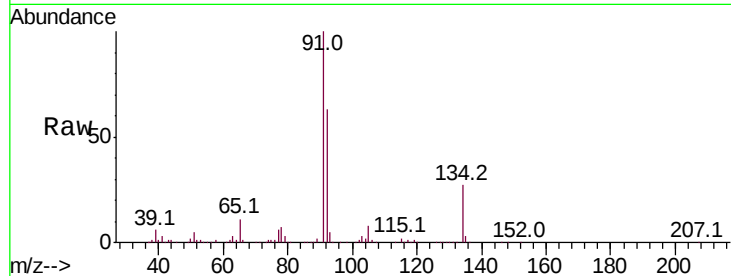
Tot Ion: 91 Resp: 332660

Ion Ratio Lower Upper

91 100

92 62.8 31.4 94.3

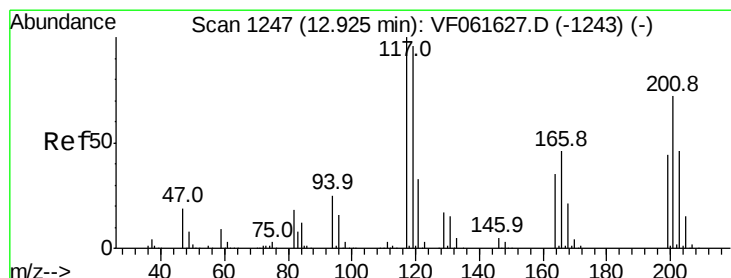
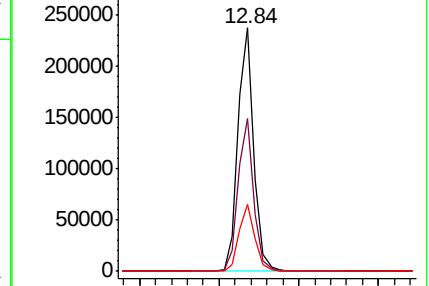
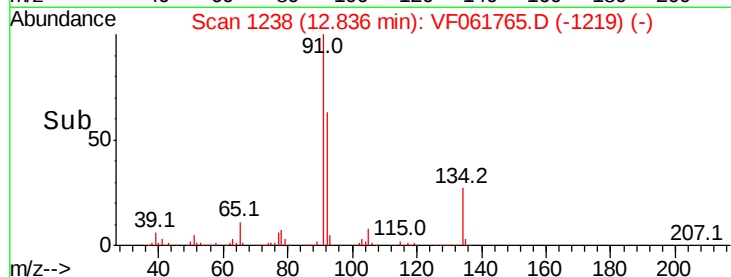
134 27.4 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 21.907 ug/l

RT: 12.90 min Scan# 1245

Delta R.T. -0.02 min

Lab File: VF061765.D

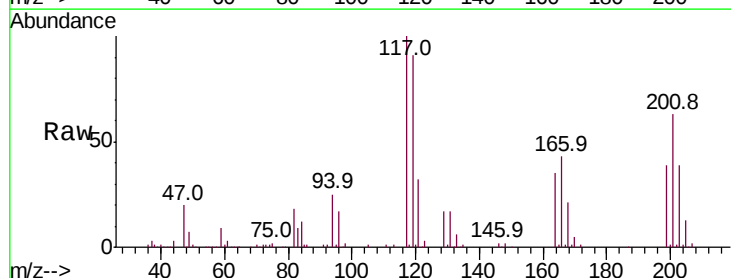
Acq: 27 Feb 2019 14:40

Tgt Ion: 117 Resp: 80650

Ion Ratio Lower Upper

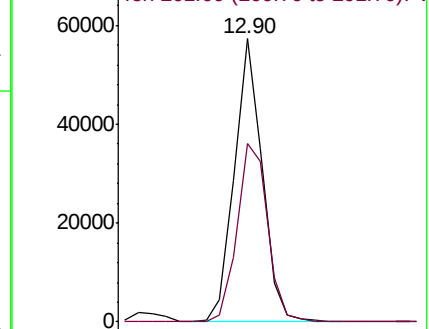
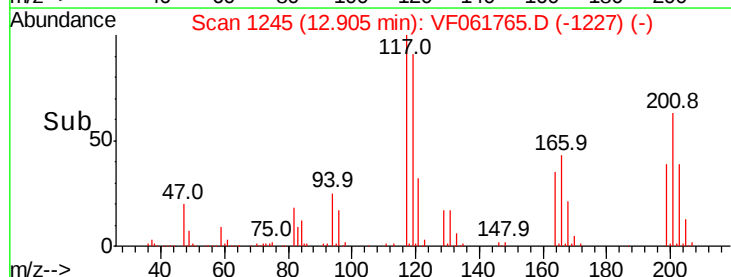
117 100

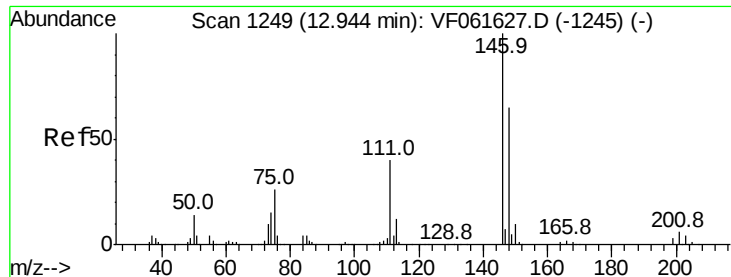
201 63.1 36.2 108.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 20.910 ug/l

RT: 12.93 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampled :

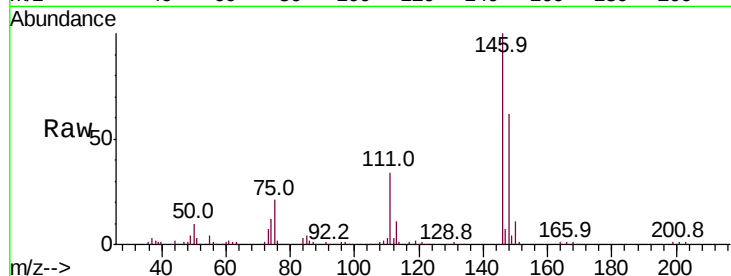
Tot Ion:146 Resp: 157824

Ion Ratio Lower Upper

146 100

111 34.4 20.2 60.5

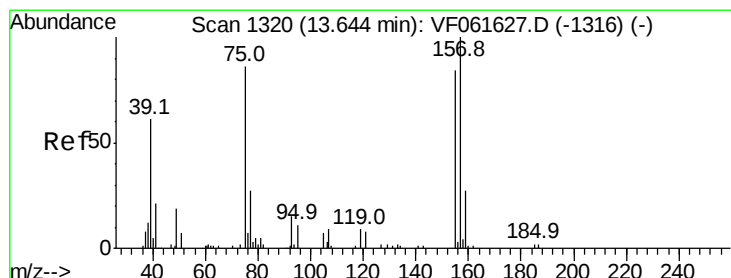
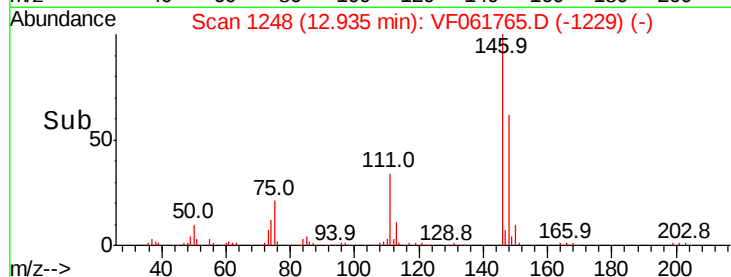
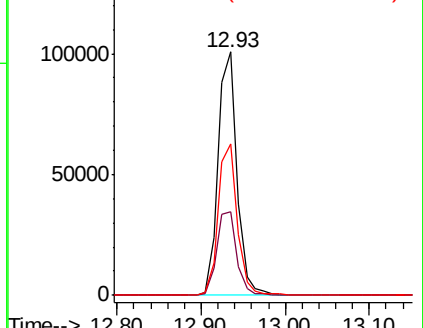
148 62.3 32.3 96.9



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: 18.098 ug/l

RT: 13.63 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VF061765.D

Acq: 27 Feb 2019 14:40

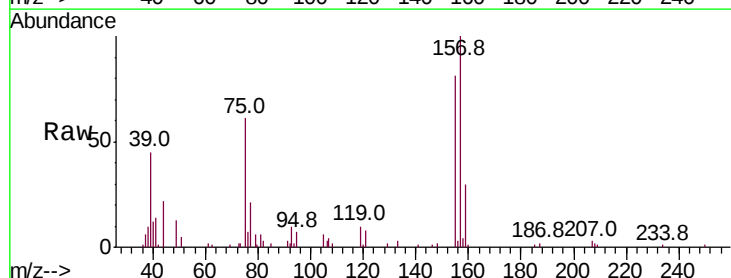
Tgt Ion: 75 Resp: 8470

Ion Ratio Lower Upper

75 100

155 130.9 48.9 146.8

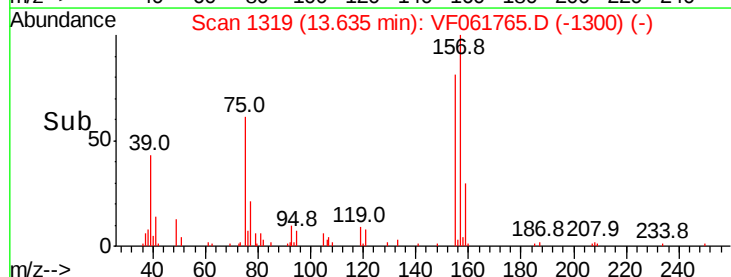
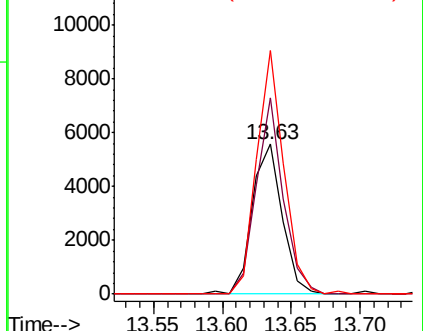
157 162.6 58.3 174.8

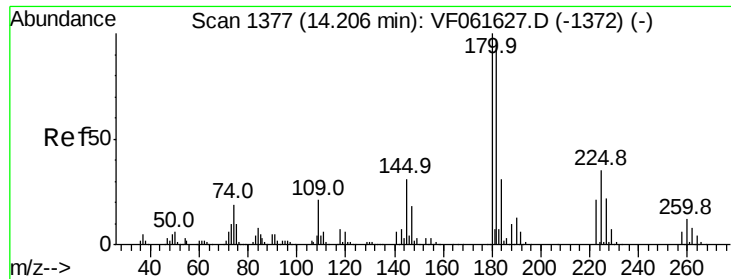


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

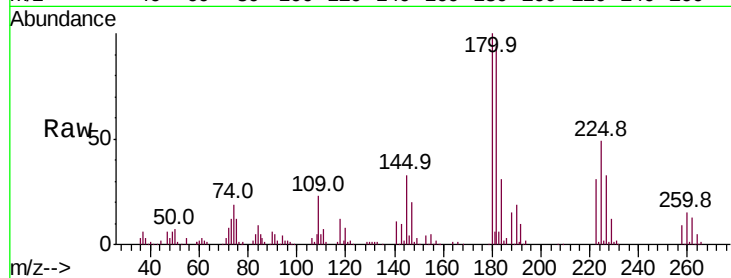




#93
 1,2,4-Trichlorobenzene
 Concen: 20.368 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.9	48.6	145.9
145	33.1	15.3	45.9

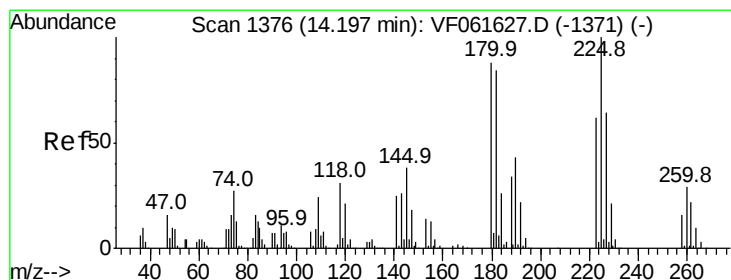
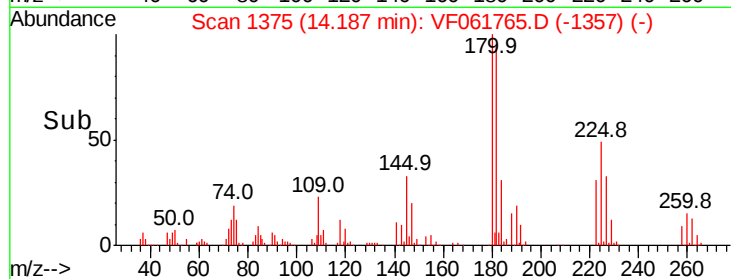
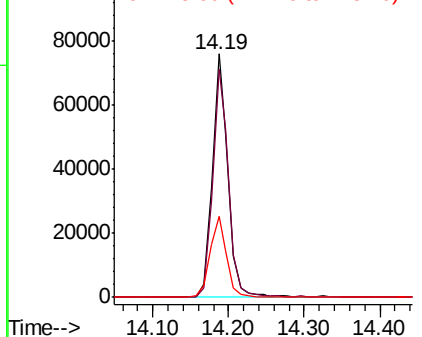


Abundance

Ion 180.00 (179.70 to 180.70): V

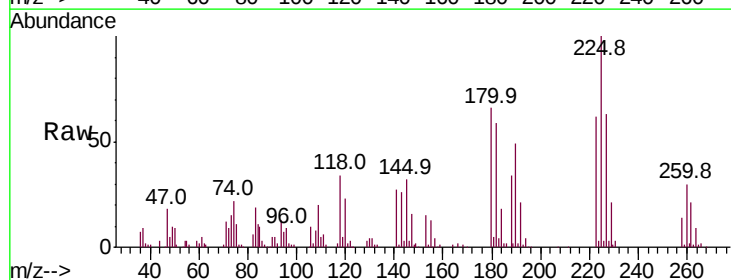
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 21.337 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061765.D
 Acq: 27 Feb 2019 14:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	30.9	92.7
227	62.7	32.1	96.3

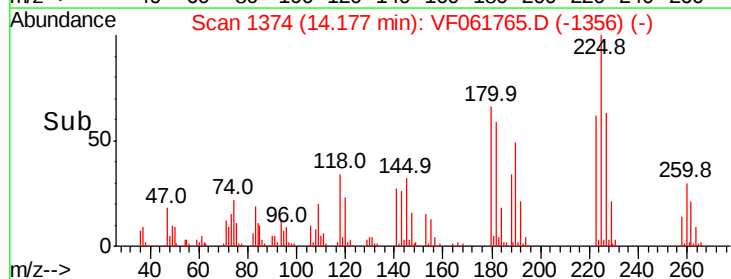
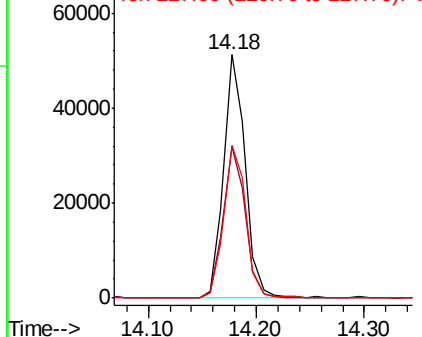


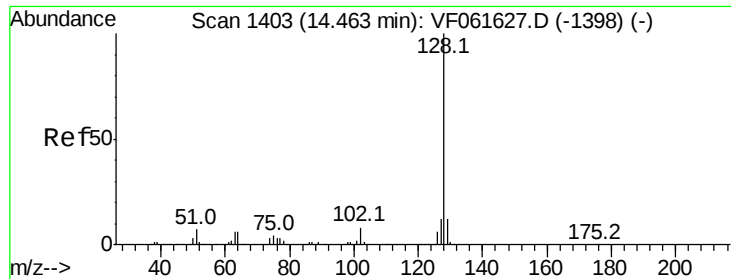
Abundance

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

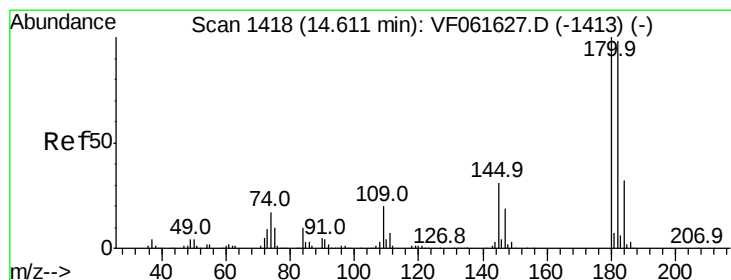
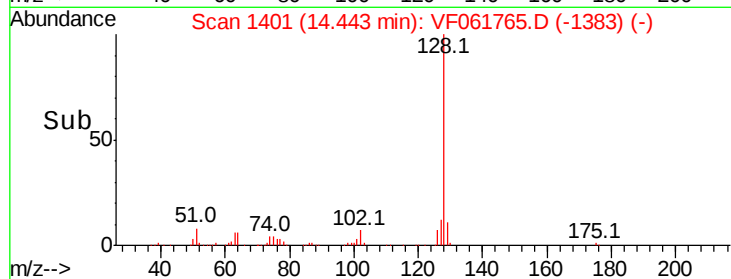
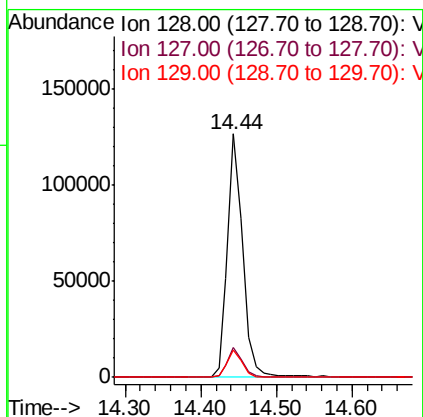
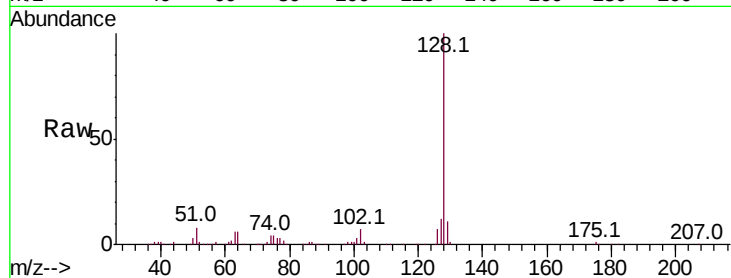




#95
Naphthalene
Concen: 18.910 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 178994
Ion Ratio Lower Upper
128 100
127 12.1 9.8 14.6
129 11.4 9.4 14.2



#96
1,2,3-Trichlorobenzene
Concen: 19.890 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061765.D
Acq: 27 Feb 2019 14:40

Tgt Ion:180 Resp: 98767
Ion Ratio Lower Upper
180 100
182 92.7 49.0 147.2
145 29.4 15.4 46.1

