

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121418\
 Data File : VF061022.D
 Acq On : 14 Dec 2018 16:13
 Operator : VA/AP
 Sample : J6403-17RE
 Misc : 4.7µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 15 00:06:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	118386	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	234949	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	173495	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	47030	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	92962	66.66	ug/l	-0.05
Spiked Amount			Recovery	=	133.32%	
35) Dibromofluoromethane	4.11	113	102739	55.12	ug/l	-0.04
Spiked Amount			Recovery	=	110.24%	
50) Toluene-d8	7.54	98	218117	39.73	ug/l	-0.05
Spiked Amount			Recovery	=	79.46%	
62) 4-Bromofluorobenzene	11.41	95	97143	38.93	ug/l	-0.03
Spiked Amount			Recovery	=	77.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	765	2.308	ug/l	54
11) Tert butyl alcohol	2.56	59	143	2.501	ug/l #	1
13) Acrolein	1.98	56	823	15.194	ug/l #	67
14) Allyl chloride	2.04	41	1755	1.502	ug/l #	53
15) Acrylonitrile	2.93	53	587	4.580	ug/l #	53
16) Acetone	2.24	43	21860	85.000	ug/l	94
18) Methyl Acetate	2.24	43	21653	50.192	ug/l #	61
20) Methylene Chloride	2.24	84	2829	2.999	ug/l #	82
23) Vinyl Acetate	3.18	43	1934	1.330	ug/l #	80
25) 2-Butanone	4.33	43	5703	12.821	ug/l	96
29) Tetrahydrofuran	4.09	42	789	4.184	ug/l #	45
39) Methylcyclohexane	5.44	83	6444	2.360	ug/l #	85
40) Benzene	4.62	78	19719	3.425	ug/l #	86
41) Methacrylonitrile	4.75	41	343	Below Cal	#	23
43) Isopropyl Acetate	6.94	43	231	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.27	43	9508	9.736	ug/l #	48
52) Toluene	7.62	92	26365	6.520	ug/l	93
55) 1,1,2-Trichloroethane	8.37	97	1367	1.160	ug/l #	27
56) Ethyl methacrylate	8.62	69	18496	14.130	ug/l #	79
59) 2-Hexanone	9.42	43	1382	2.017	ug/l #	27
67) Ethyl Benzene	9.89	91	287602	45.771	ug/l	96
68) m/p-Xylenes	10.13	106	44700	19.779	ug/l	93
69) o-Xylene	10.71	106	87459	35.095	ug/l	96
70) Styrene	10.79	104	15727	4.553	ug/l	100
73) Isopropylbenzene	11.12	105	202421	54.464	ug/l	98
74) N-amyl acetate	11.39	43	3225	3.758	ug/l #	19
75) 1,1,2,2-Tetrachloroethane	11.66	83	12074	19.740	ug/l #	91
76) 1,2,3-Trichloropropane	11.82	75	6053	13.615	ug/l #	1
78) n-propylbenzene	11.59	91	52697	12.108	ug/l	94
79) 2-Chlorotoluene	11.71	91	103344	41.410	ug/l #	43
80) 1,3,5-Trimethylbenzene	11.82	105	548942	181.940	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.88	75	326	1.497	ug/l #	1
82) 4-Chlorotoluene	12.02	91	108801	41.427	ug/l #	46
83) tert-Butylbenzene	12.20	119	179257	58.326	ug/l #	50

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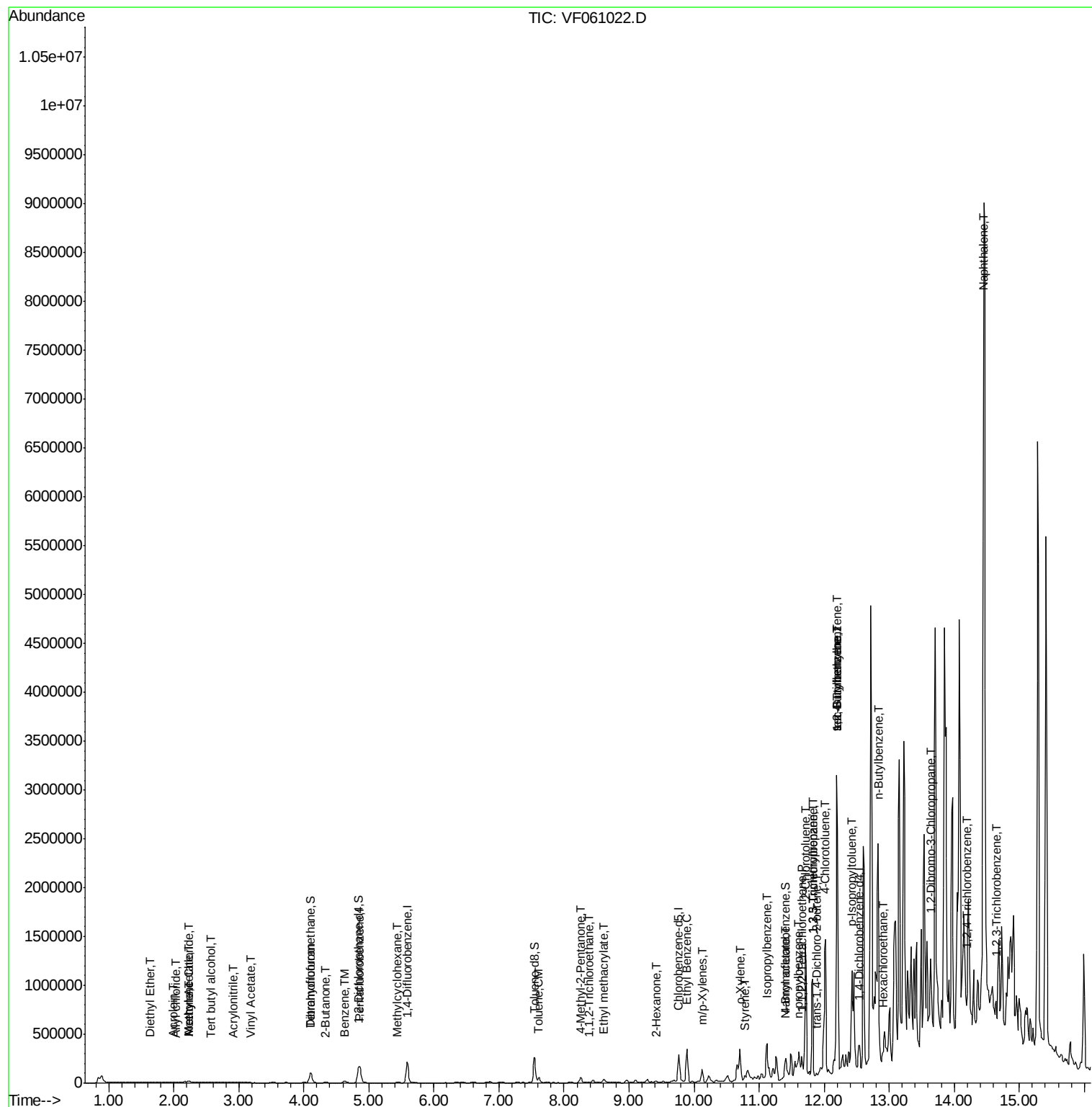
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) 1,2,4-Trimethylbenzene	12.20	105	1459633	484.734	uq/l	97
85) sec-Butylbenzene	12.20	105	1449586	344.544	uq/l #	58
86) p-Isopropyltoluene	12.42	119	552210	156.551	uq/l	96
89) n-Butylbenzene	12.83	91	348340	97.664	uq/l #	1
90) Hexachloroethane	12.90	117	24792	29.188	uq/l #	25
92) 1,2-Dibromo-3-Chloropropan	13.64	75	4159	35.169	uq/l #	1
93) 1,2,4-Trichlorobenzene	14.19	180	1052	1.026	uq/l #	1
95) Naphthalene	14.47	128	6043528	3260.832	uq/l #	81
96) 1,2,3-Trichlorobenzene	14.63	180	5557	5.836	uq/l #	1

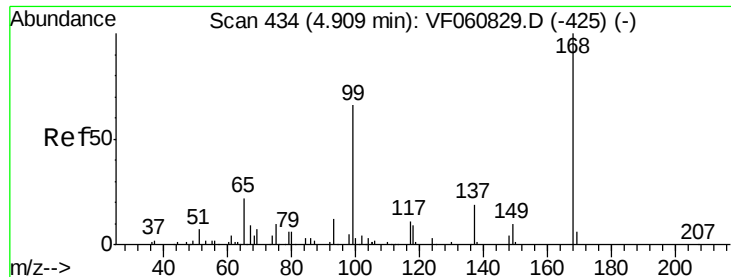
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121418\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

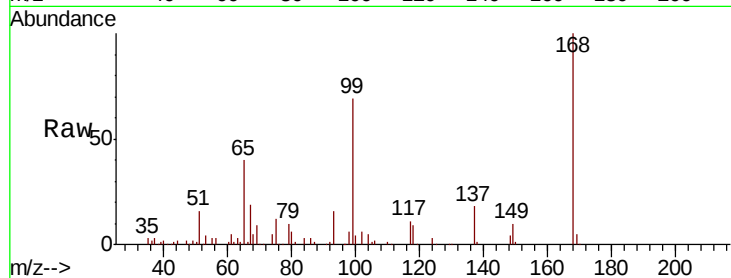
ClientSampled :

Tot Ion:168 Resp: 118386

Ion Ratio Lower Upper

168 100

99 68.7 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

40000

30000

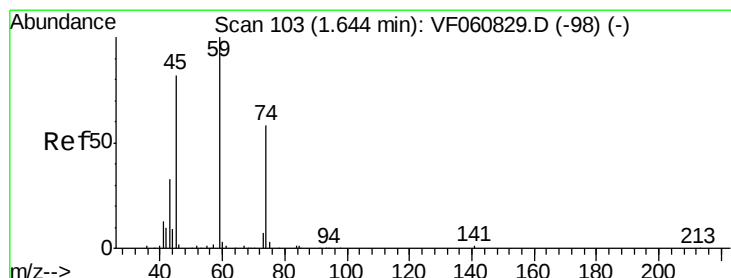
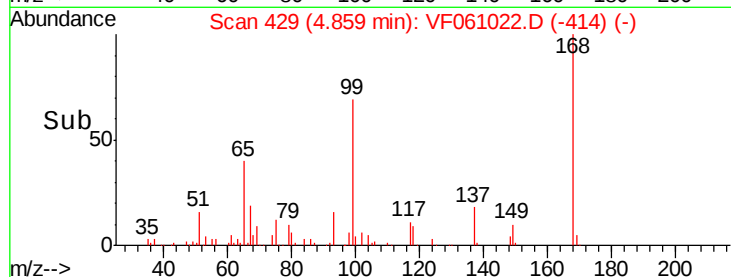
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 2.308 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF061022.D

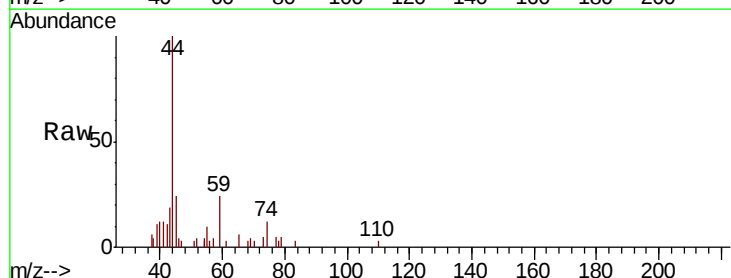
Acq: 14 Dec 2018 16:13

Tgt Ion: 74 Resp: 765

Ion Ratio Lower Upper

74 100

45 198.0 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1000

800

600

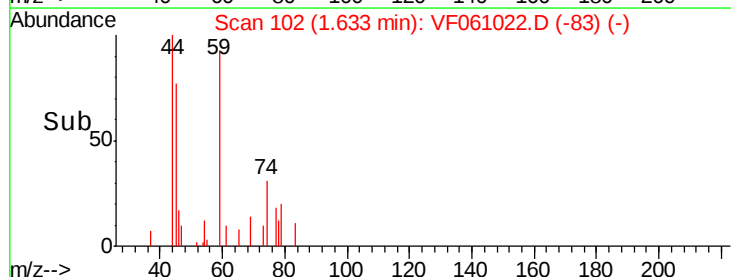
400

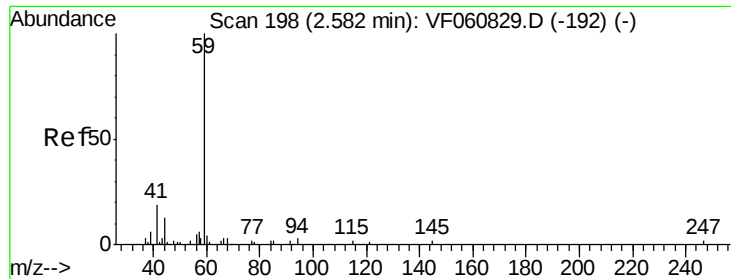
200

0

Time-->

1.60 1.65

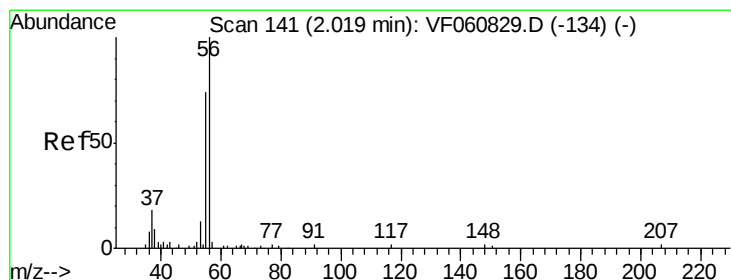
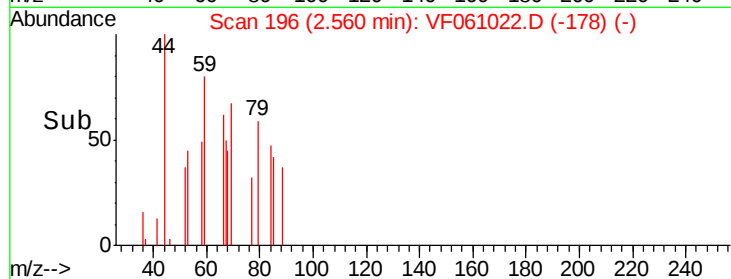
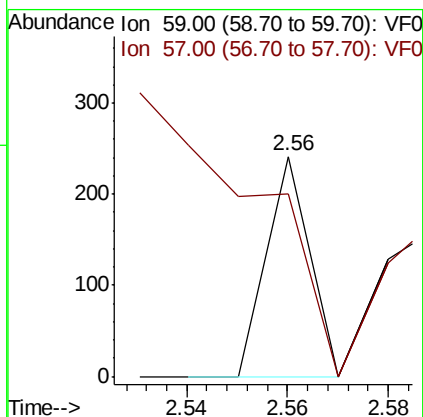
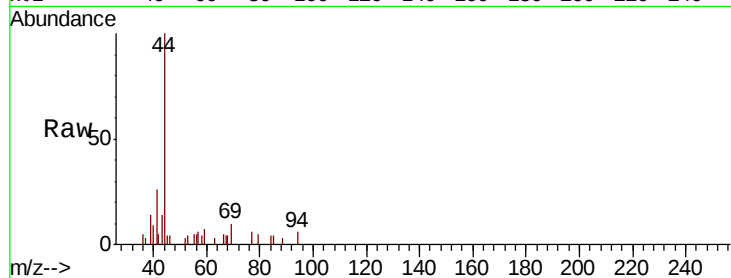




#11
Tert butyl alcohol
Concen: 2.501 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

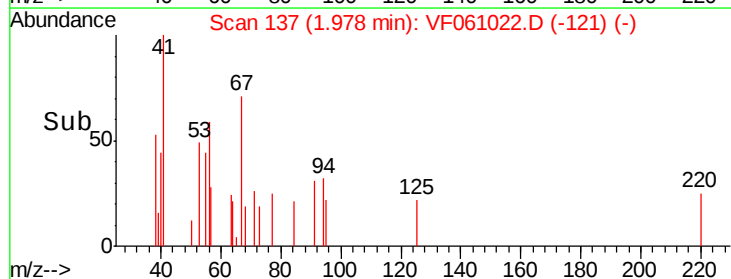
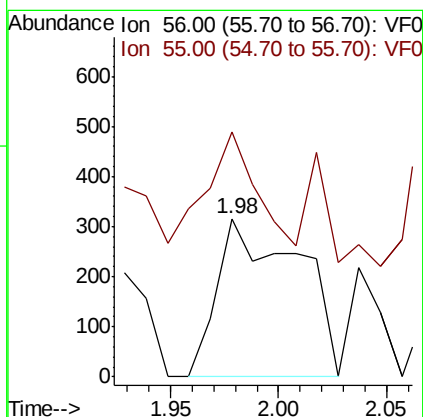
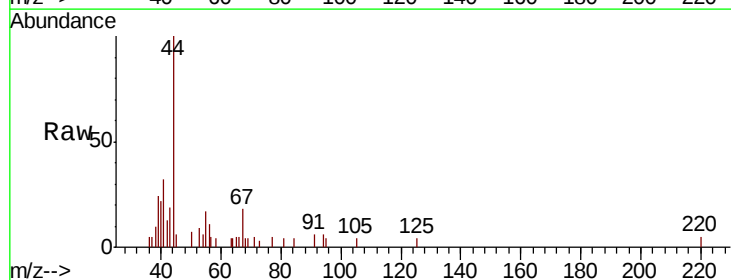
Instrument :
MSVOA_F
ClientSampleId :

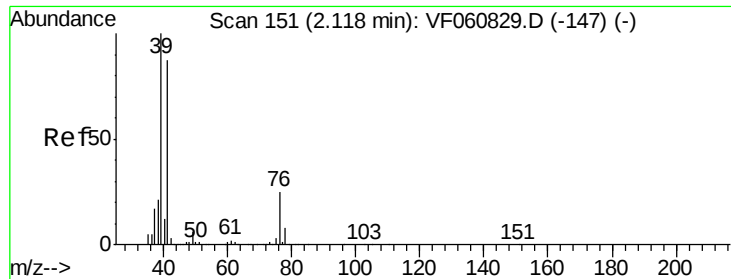
Tot Ion: 59 Resp: 143
Ion Ratio Lower Upper
59 100
57 83.0 12.7 19.1#



#13
Acrolein
Concen: 15.194 ug/l
RT: 1.98 min Scan# 137
Delta R.T. -0.04 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

Tgt Ion: 56 Resp: 823
Ion Ratio Lower Upper
56 100
55 104.9 61.2 91.8#





#14

Allvl chloride

Concen: 1.502 ug/l

RT: 2.04 min Scan# 143

Delta R.T. -0.08 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

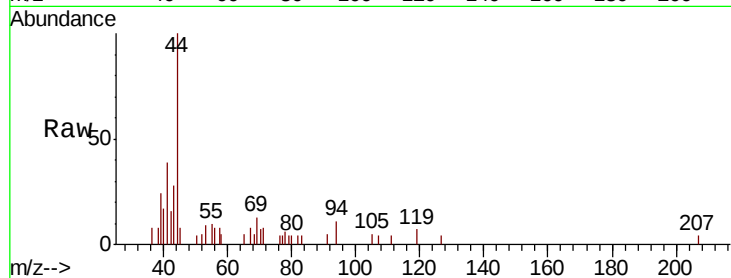
Tot Ion: 41 Resp: 1755

Ion Ratio Lower Upper

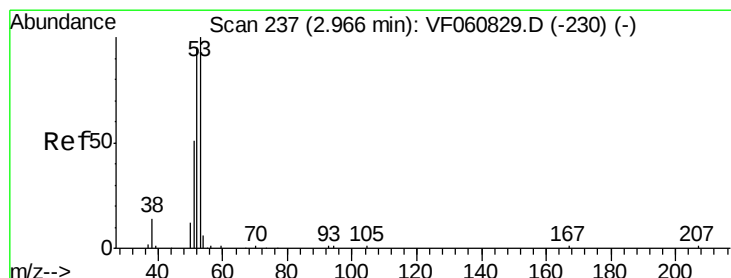
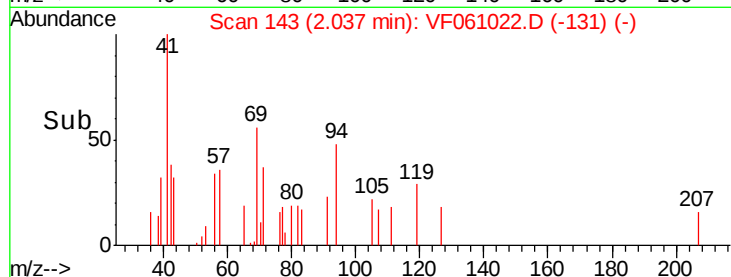
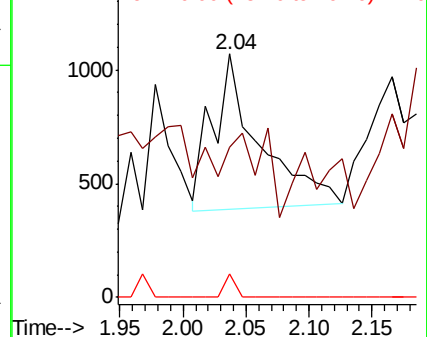
41 100

39 61.4 91.7 137.5#

76 9.4 23.5 35.3#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 76.00 (75.70 to 76.70): VF0



#15

Acrylonitrile

Concen: 4.580 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

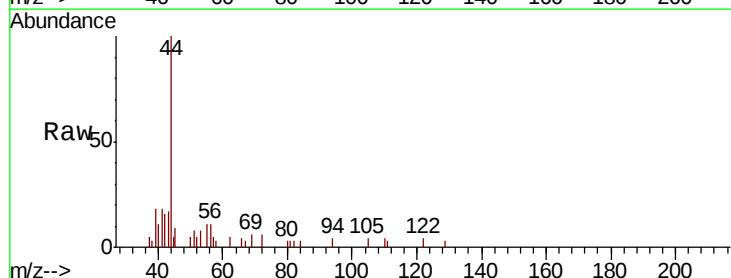
Tgt Ion: 53 Resp: 587

Ion Ratio Lower Upper

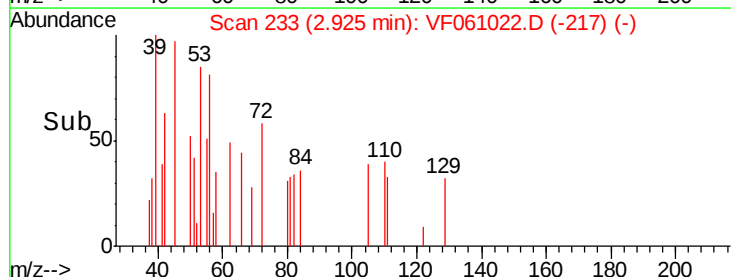
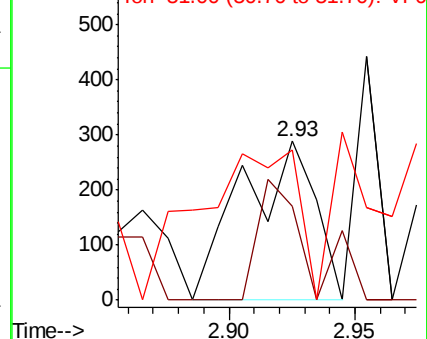
53 100

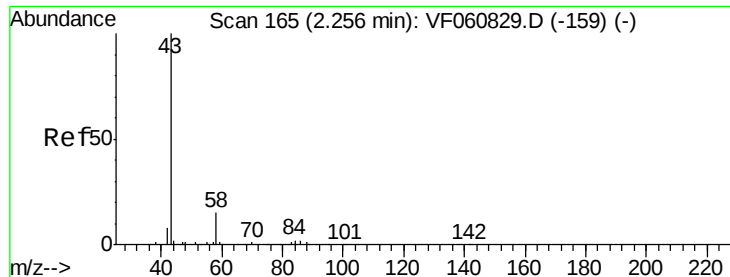
52 58.8 76.5 114.7#

51 94.8 40.7 61.1#



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: 85.000 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

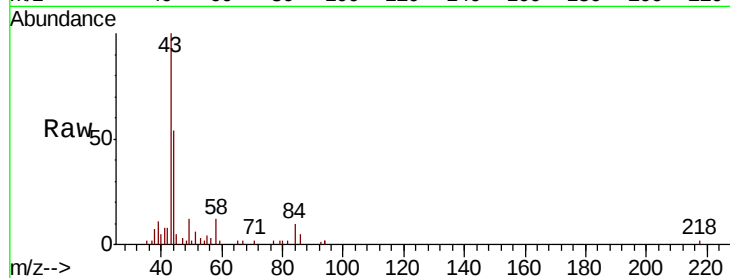
ClientSampleId :

Tot Ion: 43 Resp: 21860

Ion Ratio Lower Upper

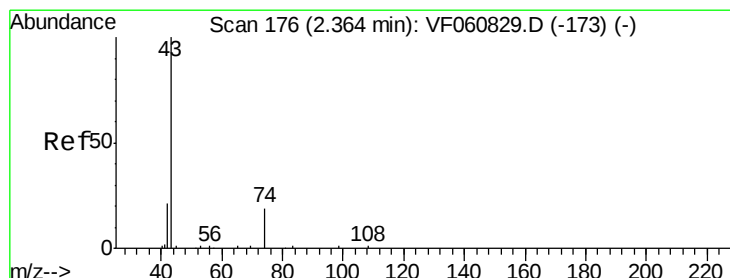
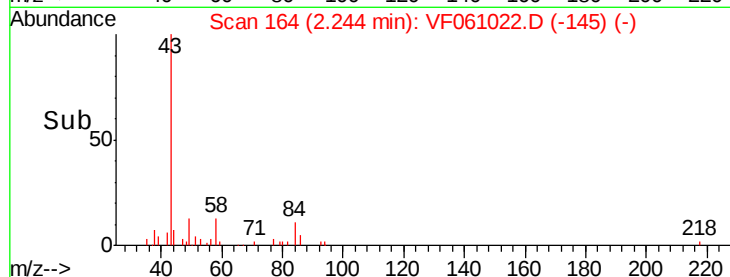
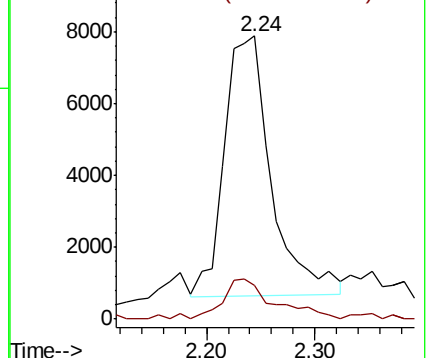
43 100

58 11.8 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 50.192 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.12 min

Lab File: VF061022.D

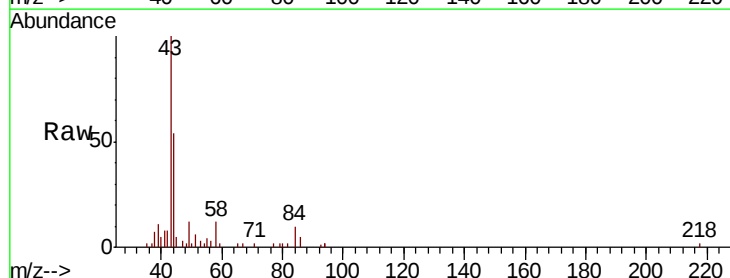
Acq: 14 Dec 2018 16:13

Tgt Ion: 43 Resp: 21653

Ion Ratio Lower Upper

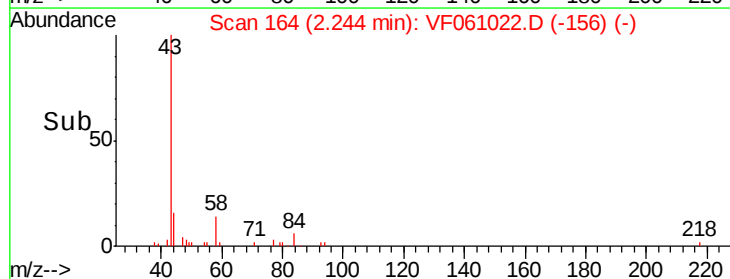
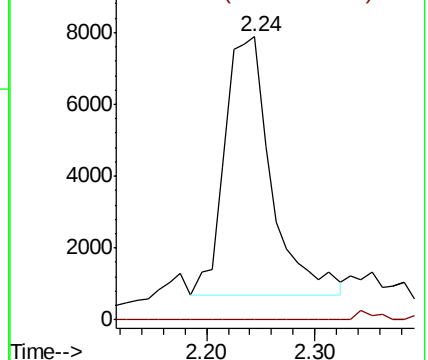
43 100

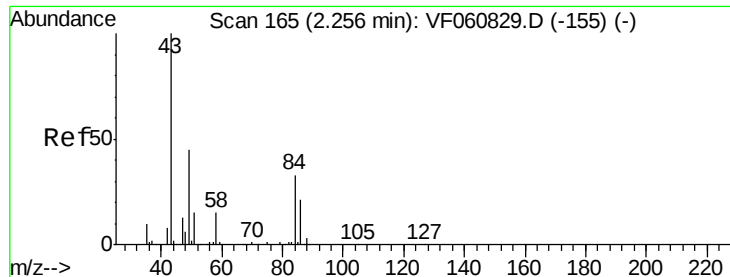
74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

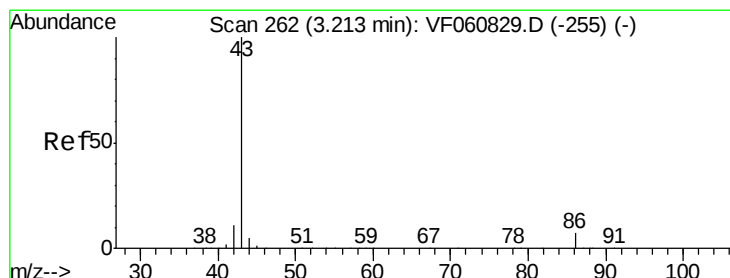
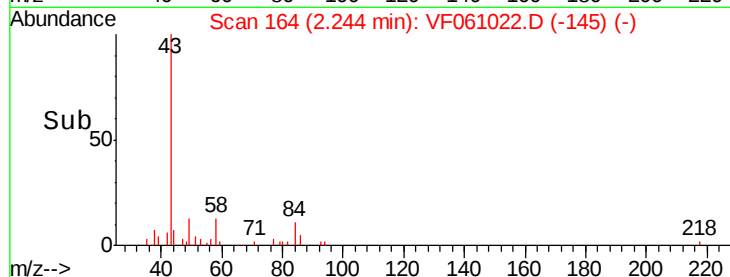
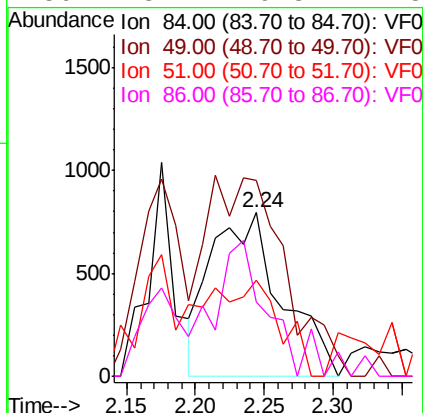
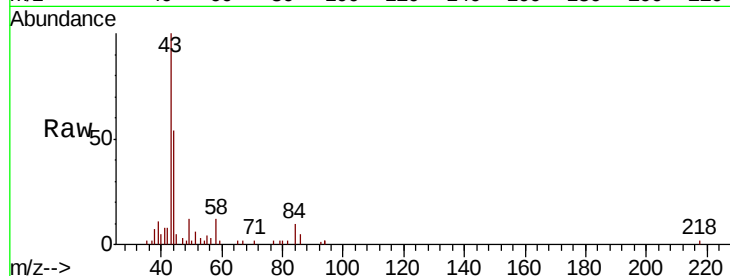




#20
Methvlene Chloride
Concen: 2.999 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

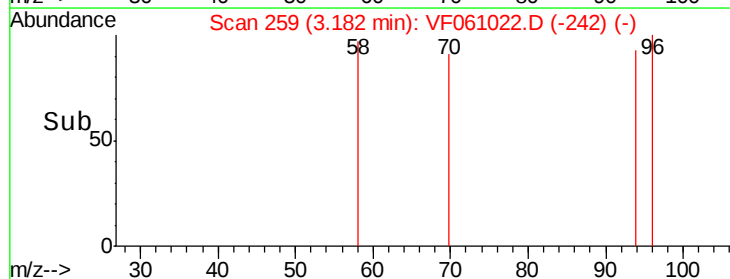
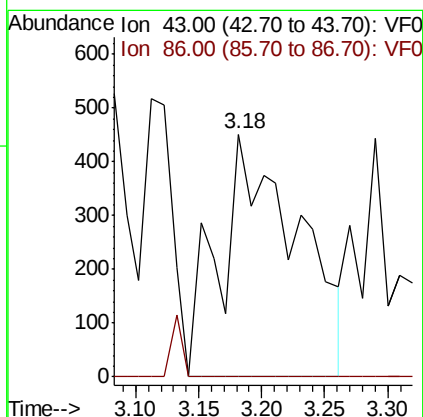
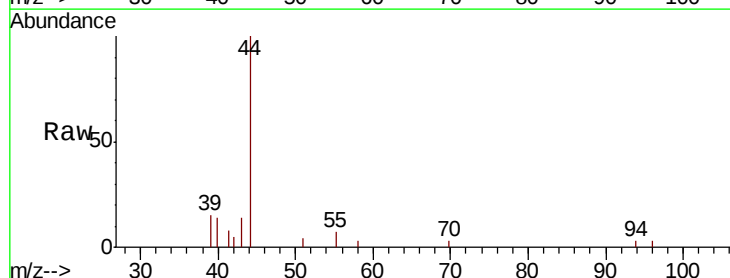
Instrument :
MSVOA_F
ClientSampleId :

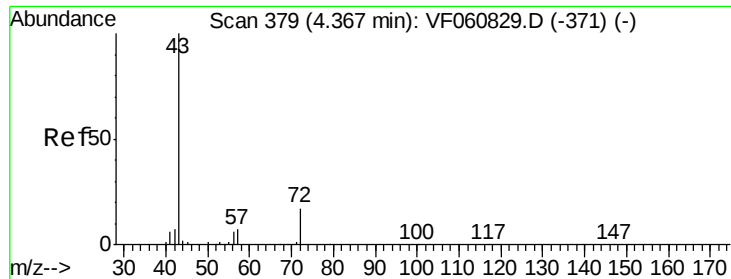
Tot Ion: 84 Resp: 2829
Ion Ratio Lower Upper
84 100
49 119.8 111.3 166.9
51 58.4 38.0 57.0#
86 45.1 49.8 74.8#



#23
Vinyl Acetate
Concen: 1.330 ug/l
RT: 3.18 min Scan# 259
Delta R.T. -0.03 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

Tgt Ion: 43 Resp: 1934
Ion Ratio Lower Upper
43 100
86 0.0 5.4 8.0#





#25

2-Butanone

Concen: 12.821 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

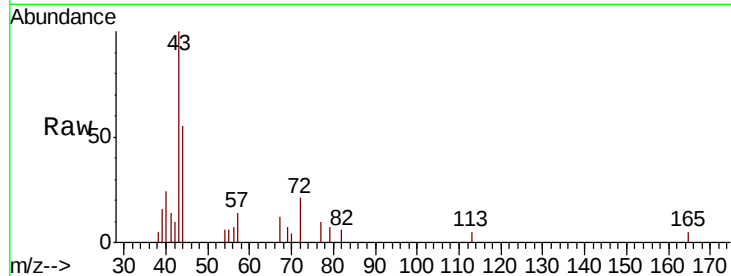
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 5703

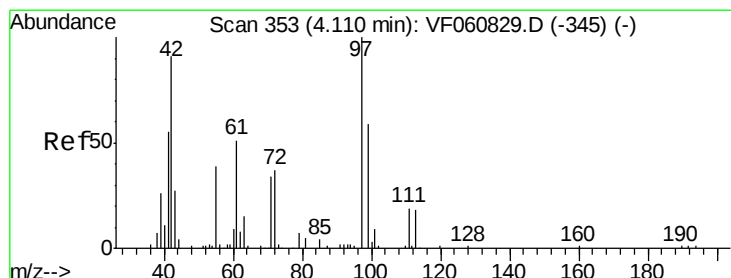
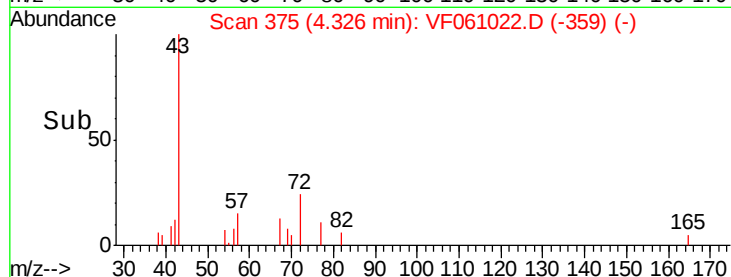
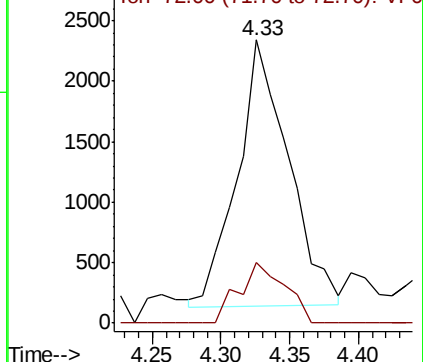
Ion Ratio Lower Upper

43 100

72 21.2 15.4 23.2



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



#29

Tetrahydrofuran

Concen: 4.184 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

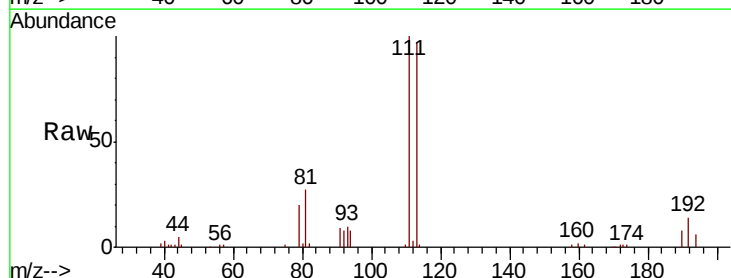
Tgt Ion: 42 Resp: 789

Ion Ratio Lower Upper

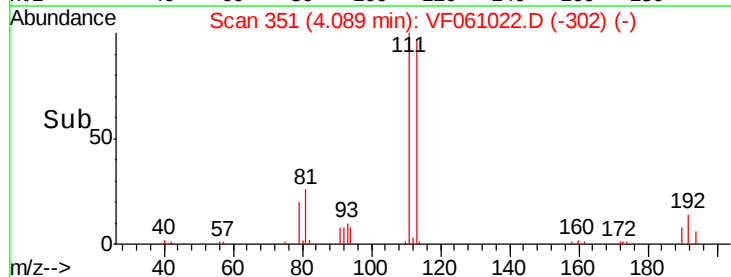
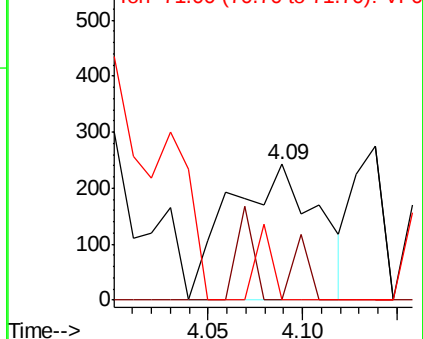
42 100

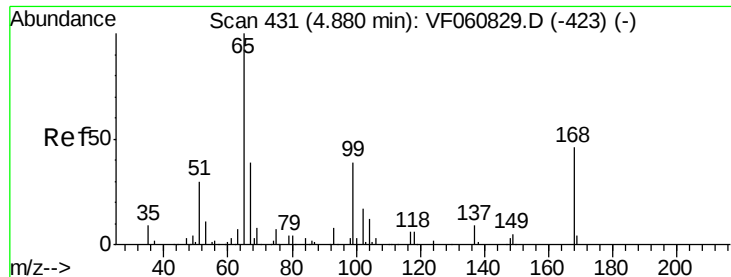
72 8.9 31.9 47.9#

71 0.0 28.7 43.1#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 66.657 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.05 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

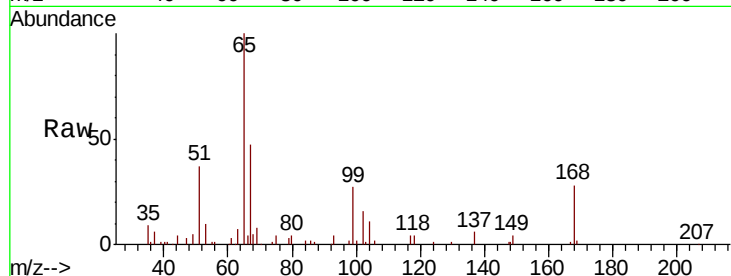
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 92962

Ion Ratio Lower Upper

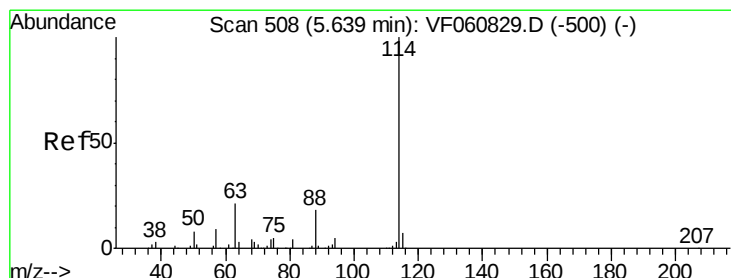
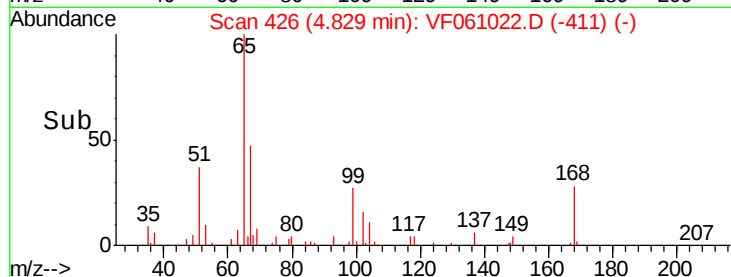
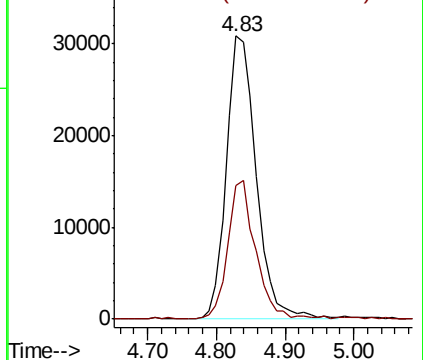
65 100

67 47.4 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

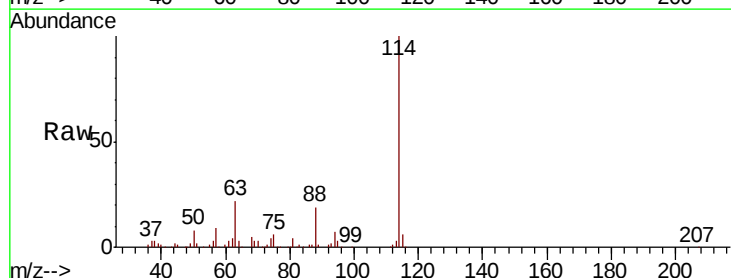
Tgt Ion: 114 Resp: 234949

Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.6

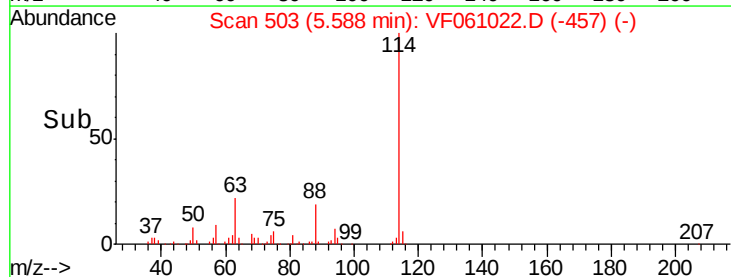
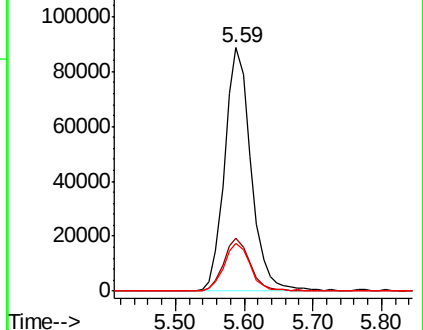
88 19.5 0.0 36.6

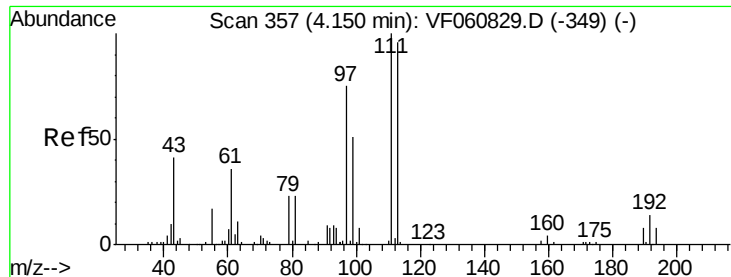


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

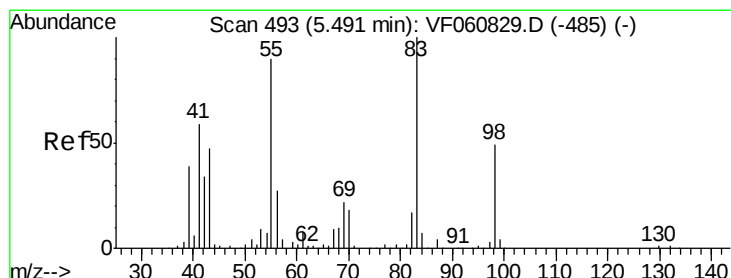
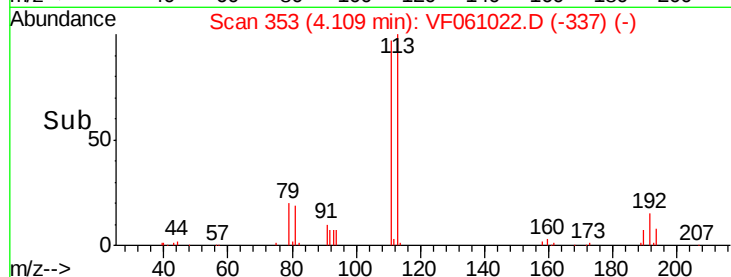
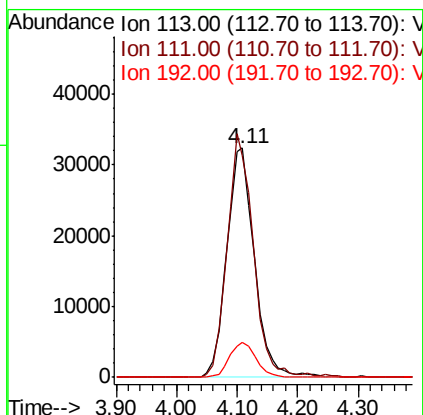
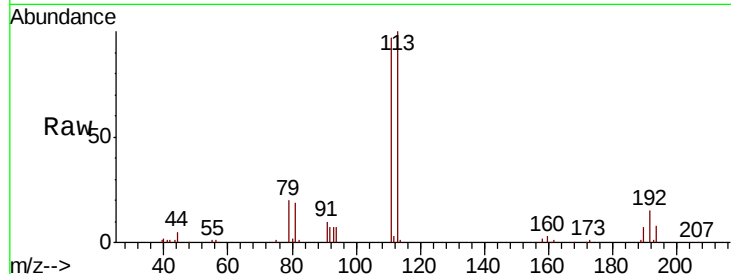




#35
 Dibromofluoromethane
 Concen: 55.120 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF061022.D
 Acq: 14 Dec 2018 16:13

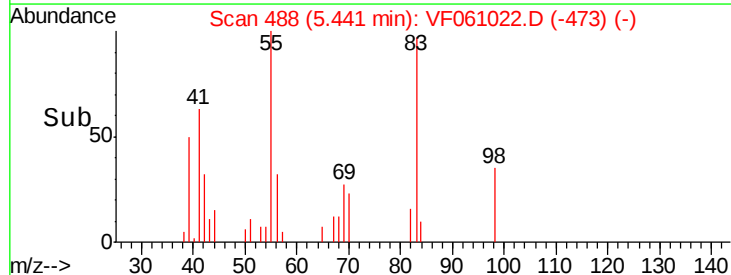
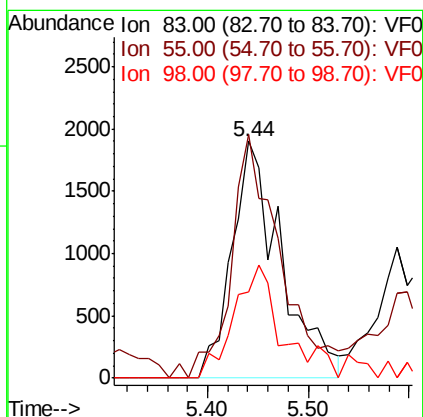
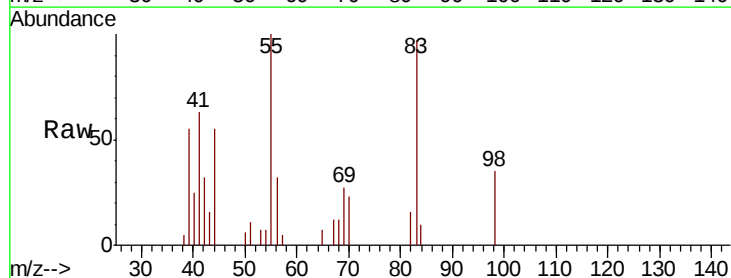
Instrument :
 MSVOA_F
 ClientSampleId :

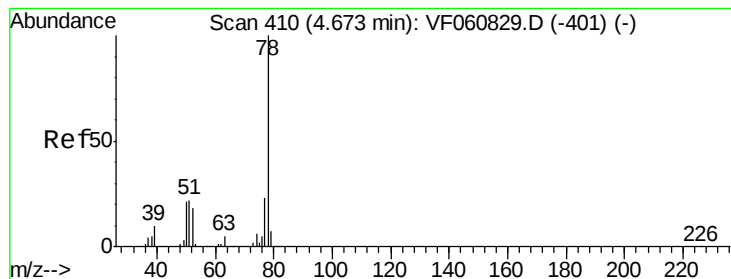
Tot Ion	Ratio	Lower	Upper
113	100		
111	97.0	83.0	124.6
192	15.4	12.3	18.5



#39
 Methylcyclohexane
 Concen: 2.360 ug/l
 RT: 5.44 min Scan# 488
 Delta R.T. -0.05 min
 Lab File: VF061022.D
 Acq: 14 Dec 2018 16:13

Tgt Ion	Ratio	Lower	Upper
83	100		
55	102.9	72.1	108.1
98	36.4	39.1	58.7#





#40

Benzene

Concen: 3.425 ug/l

RT: 4.62 min Scan# 405

Delta R.T. -0.05 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

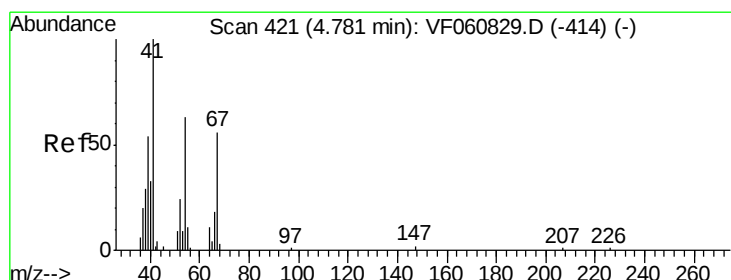
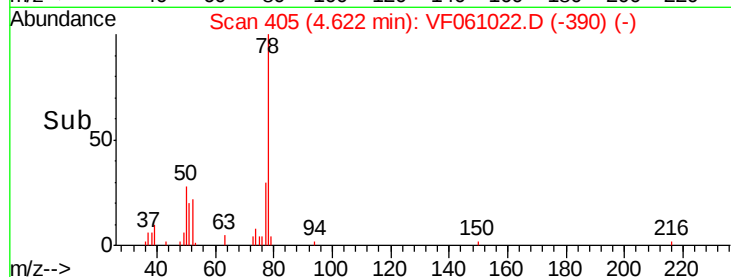
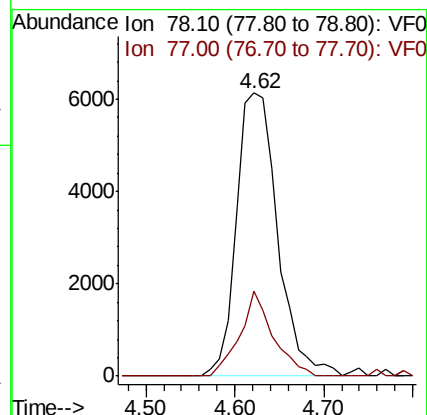
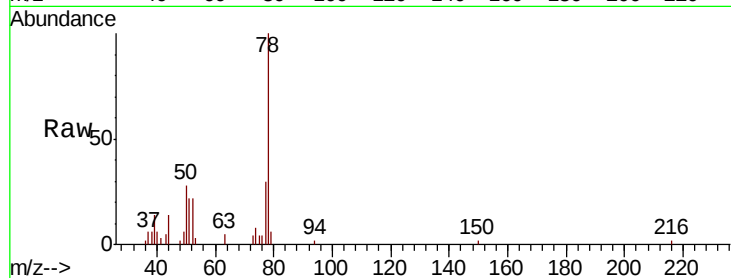
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 78 Resp: 19719

Ion Ratio Lower Upper

78 100

77 30.2 18.7 28.1#



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.75 min Scan# 418

Delta R.T. -0.03 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Tgt Ion: 41 Resp: 343

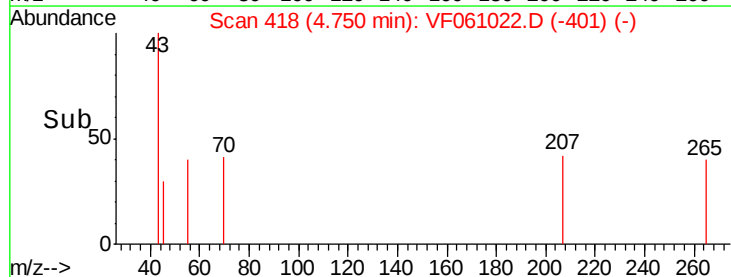
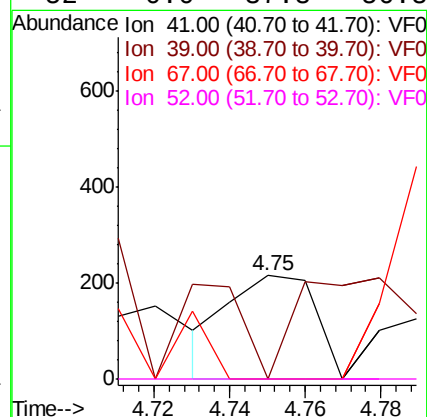
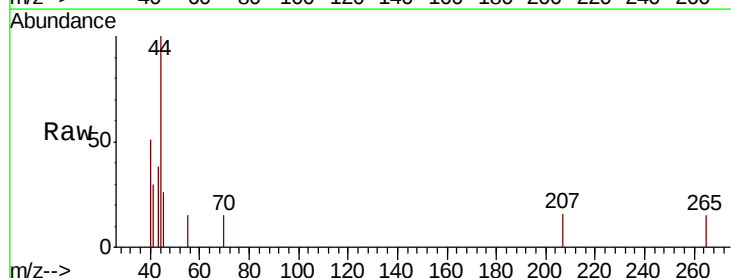
Ion Ratio Lower Upper

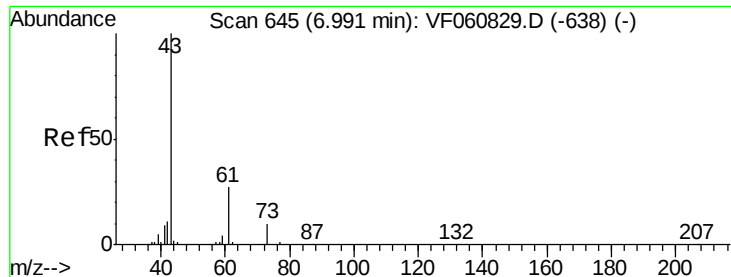
41 100

39 0.0 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#



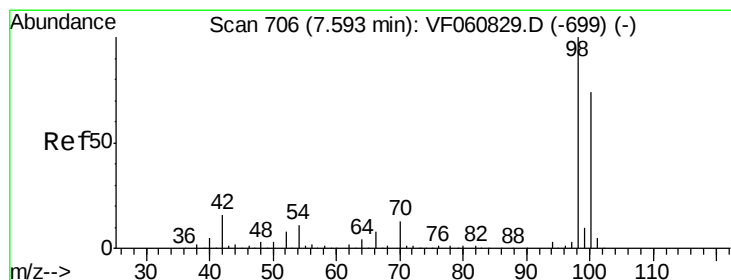
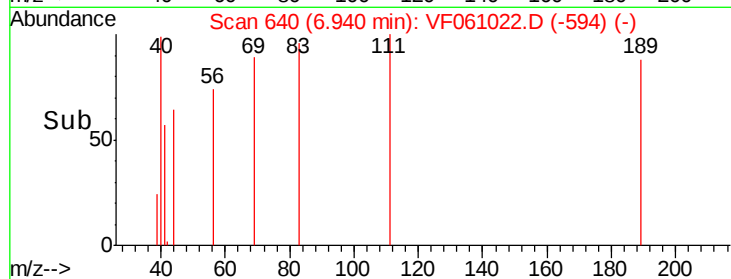
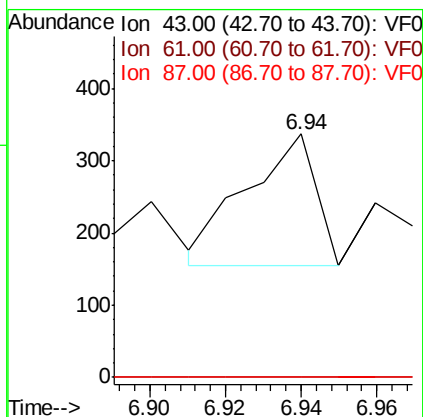
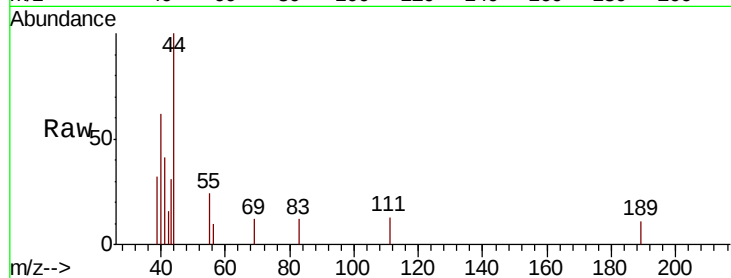


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.94 min Scan# 640
 Delta R.T. -0.05 min
 Lab File: VF061022.D
 Acq: 14 Dec 2018 16:13

Instrument :
 MSVOA_F
 ClientSampled :

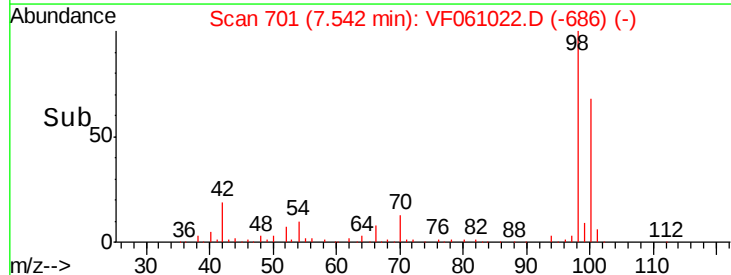
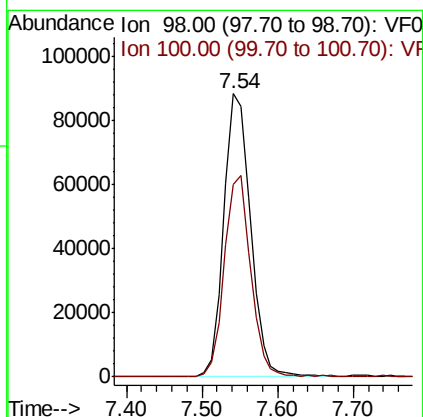
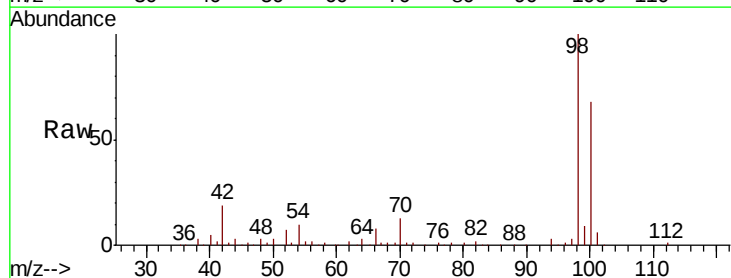
Tot Ion: 43 Resp: 231
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

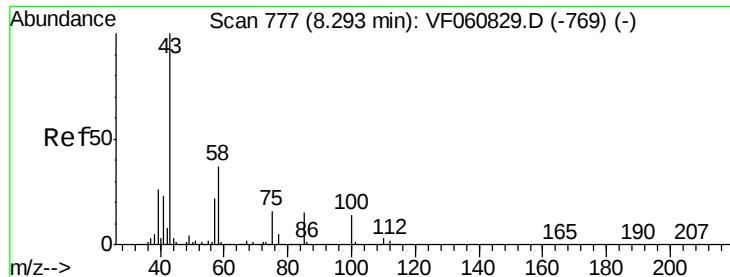


#50

Toluene-d8
 Concen: 39.726 ug/l
 RT: 7.54 min Scan# 701
 Delta R.T. -0.05 min
 Lab File: VF061022.D
 Acq: 14 Dec 2018 16:13

Tgt Ion: 98 Resp: 218117
 Ion Ratio Lower Upper
 98 100
 100 68.2 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 9.736 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

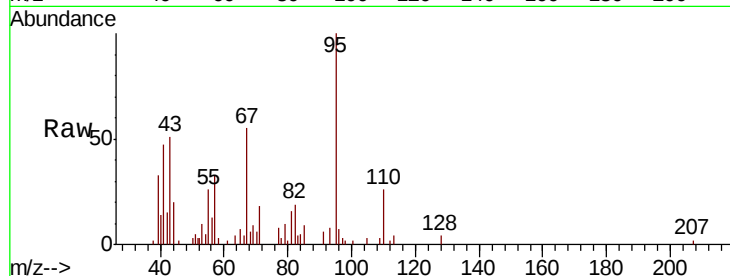
ClientSampleId :

Tot Ion: 43 Resp: 9508

Ion Ratio Lower Upper

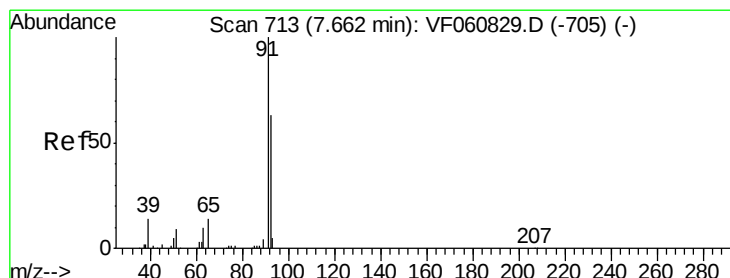
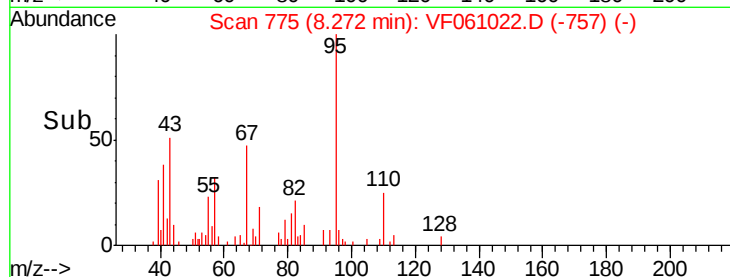
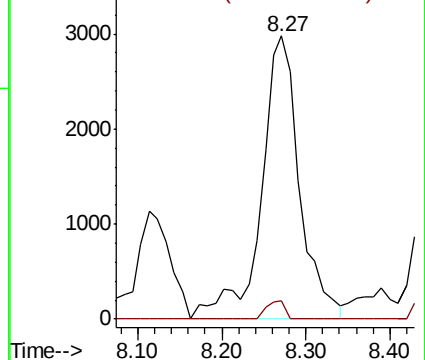
43 100

58 6.3 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 6.520 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF061022.D

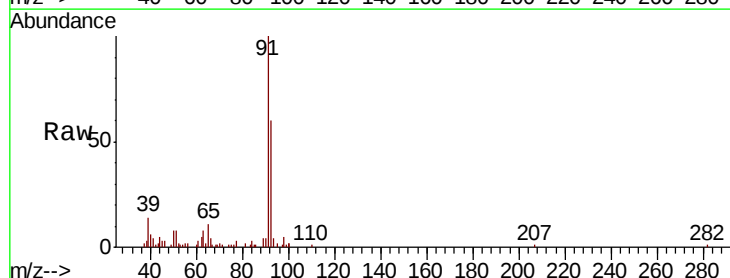
Acq: 14 Dec 2018 16:13

Tgt Ion: 92 Resp: 26365

Ion Ratio Lower Upper

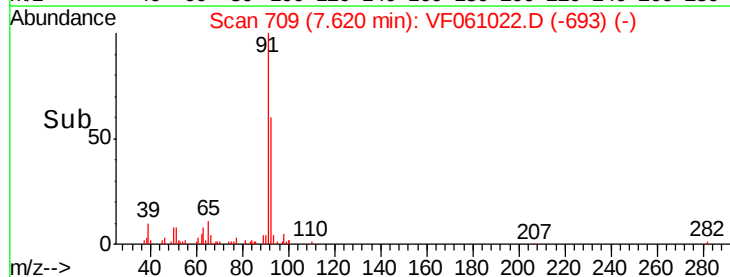
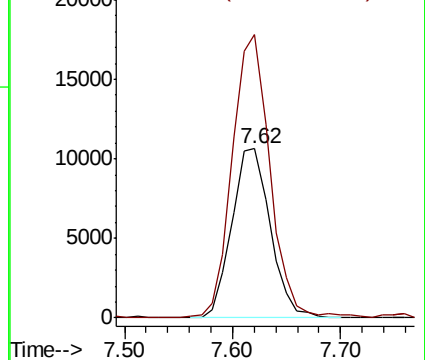
92 100

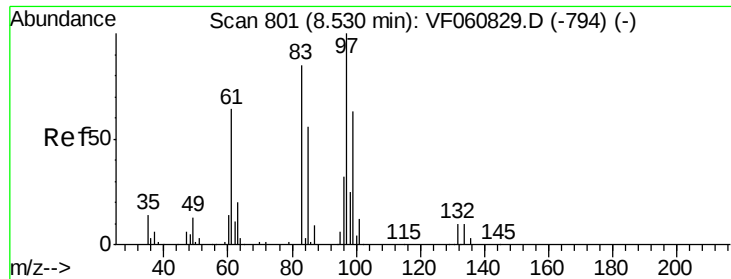
91 167.5 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#55

1,1,2-Trichloroethane

Concen: 1.160 ug/l

RT: 8.37 min Scan# 785

Delta R.T. -0.16 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 1367

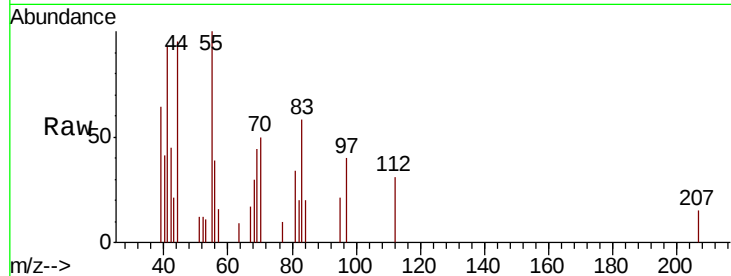
Ion Ratio Lower Upper

97 100

83 144.0 67.8 101.6#

85 0.0 45.0 67.6#

99 0.0 50.5 75.7#

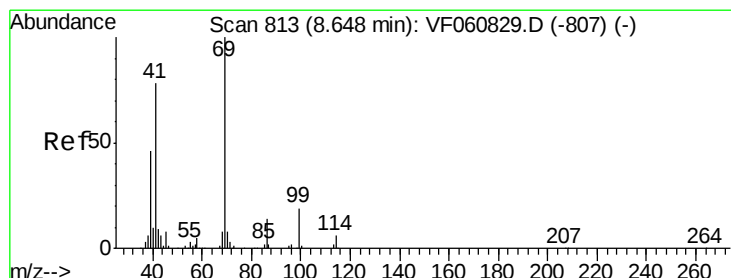
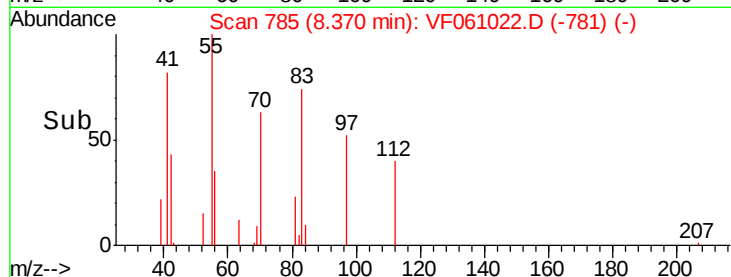
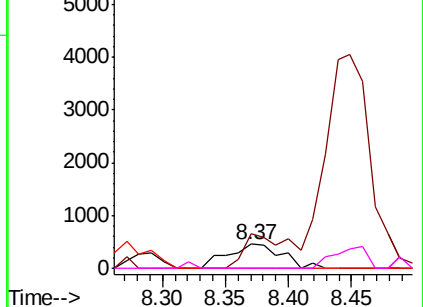


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 14.130 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.03 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

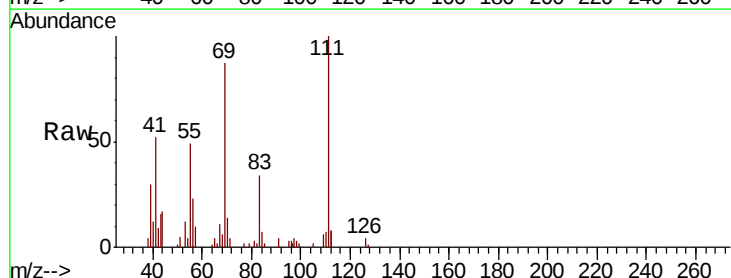
Tgt Ion: 69 Resp: 18496

Ion Ratio Lower Upper

69 100

41 59.8 62.6 94.0#

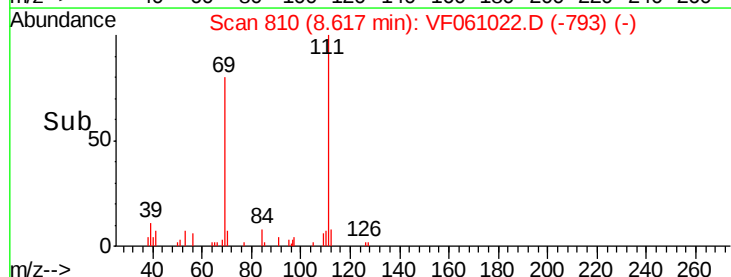
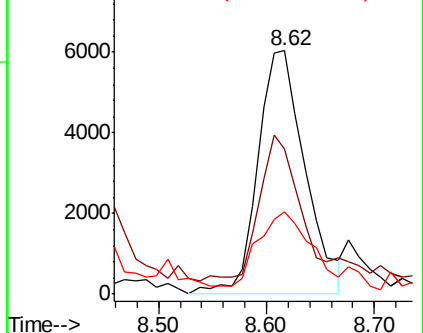
39 34.1 37.8 56.6#

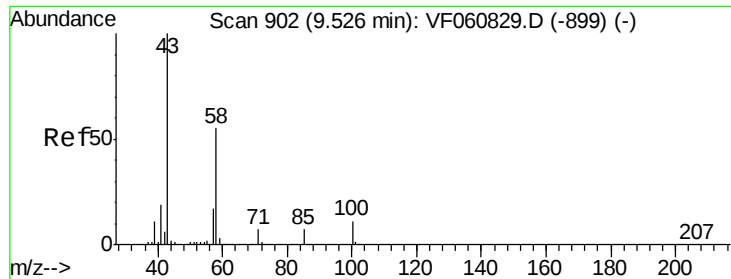


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

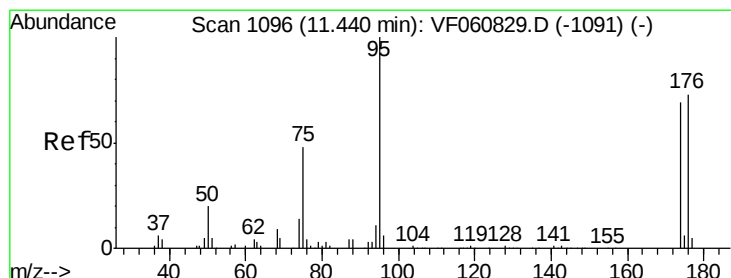
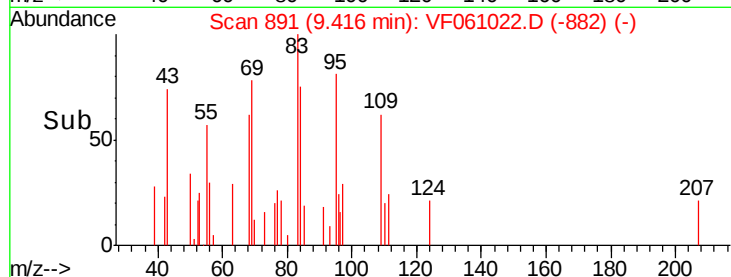
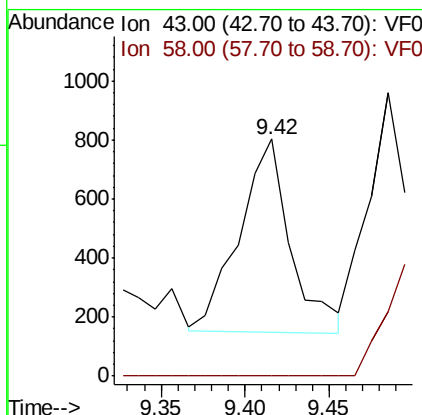
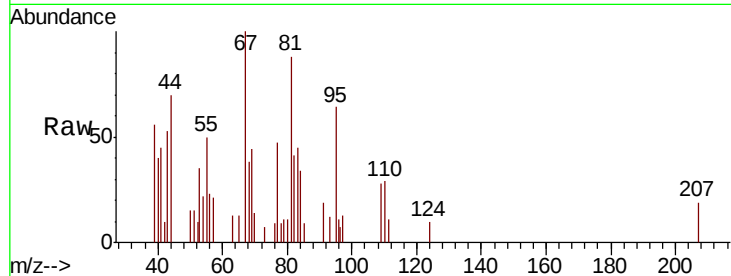




#59
2-Hexanone
Concen: 2.017 ug/l
RT: 9.42 min Scan# 891
Delta R.T. -0.11 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

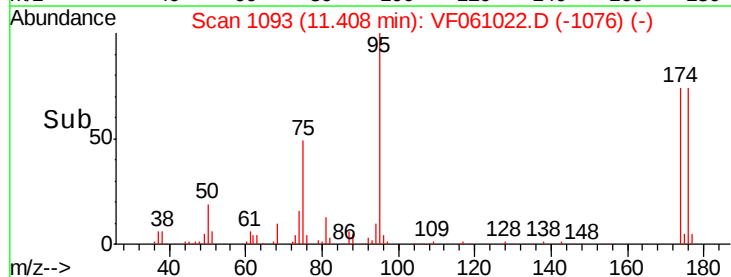
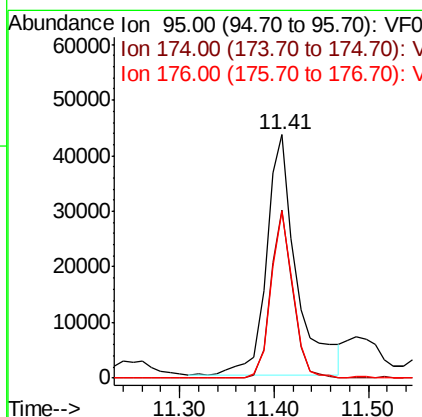
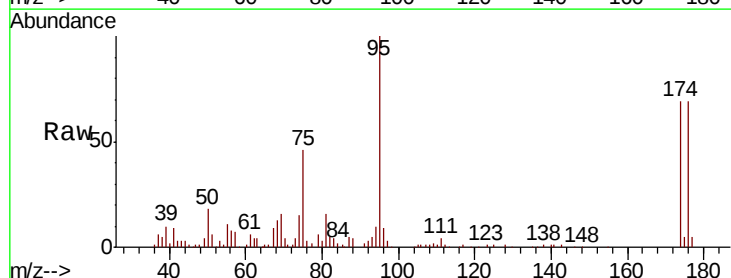
Instrument :
MSVOA_F
ClientSampleId :

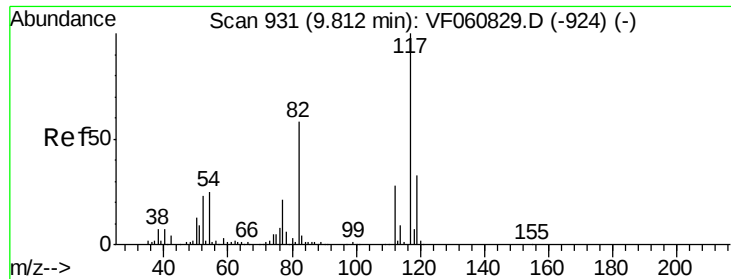
Tot Ion: 43 Resp: 1382
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 38.929 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

Tgt Ion: 95 Resp: 97143
Ion Ratio Lower Upper
95 100
174 68.9 0.0 138.2
176 68.6 0.0 146.2

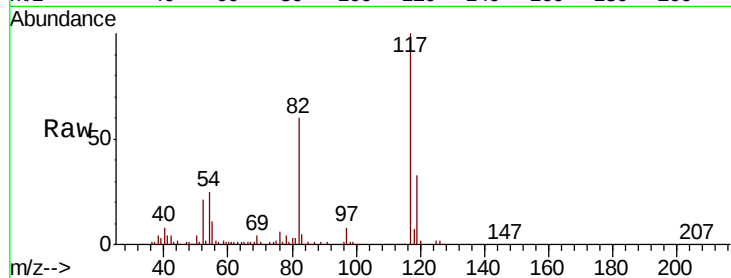




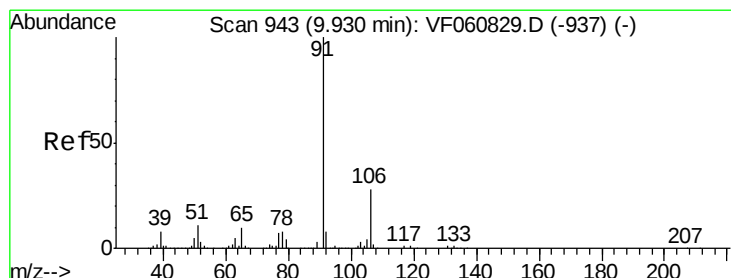
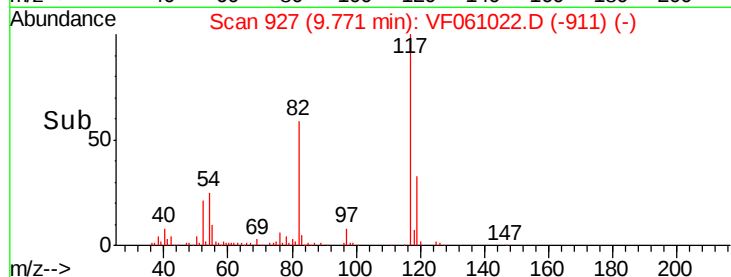
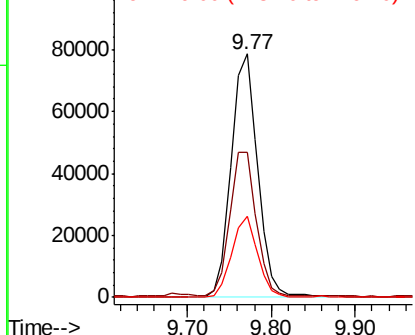
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 173495
Ion Ratio Lower Upper
117 100
82 59.6 46.6 69.8
119 33.4 26.4 39.6

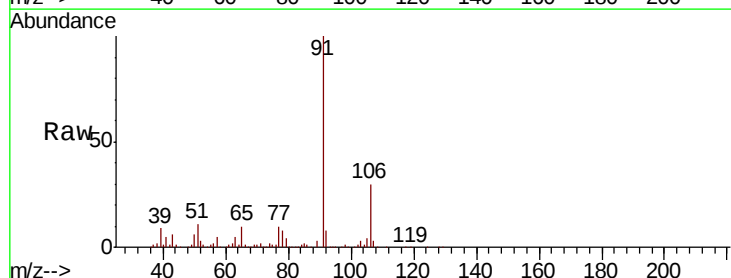


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

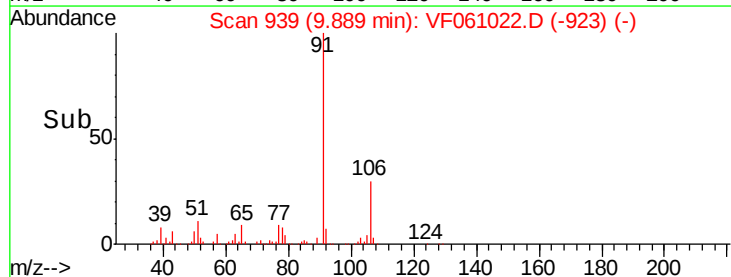
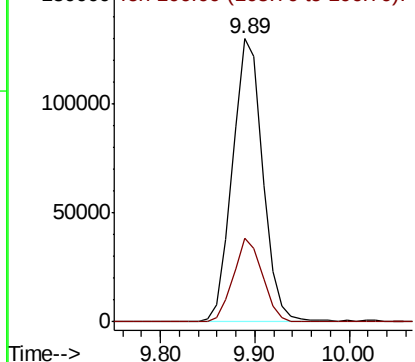


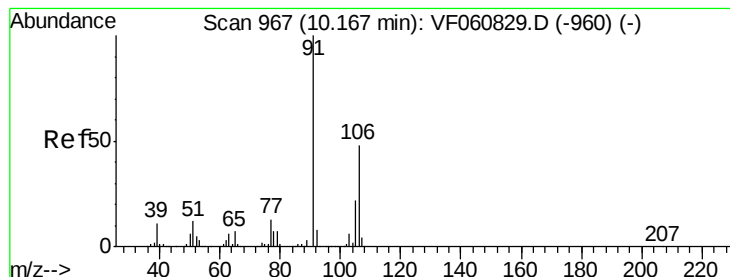
#67
Ethyl Benzene
Concen: 45.771 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.04 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

Tgt Ion: 91 Resp: 287602
Ion Ratio Lower Upper
91 100
106 29.7 22.2 33.2



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





#68

m/p-Xvlenes

Concen: 19.779 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

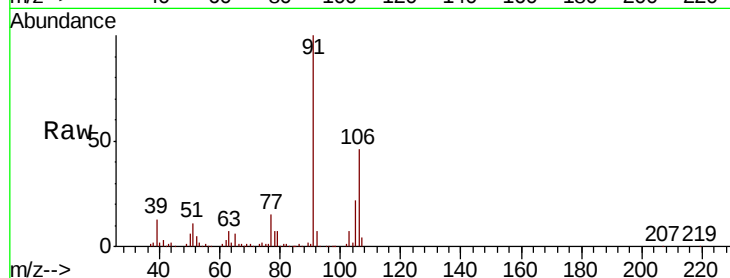
ClientSampleId :

Tot Ion:106 Resp: 44700

Ion Ratio Lower Upper

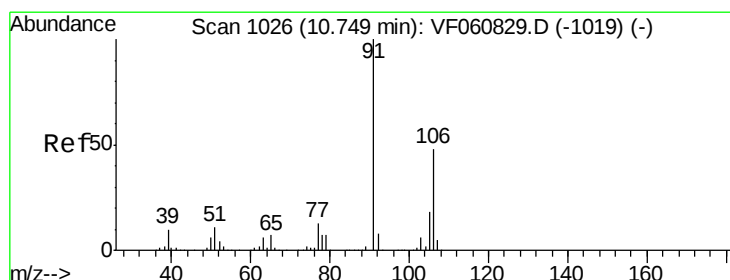
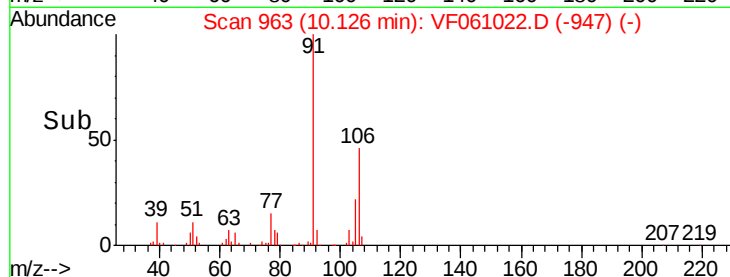
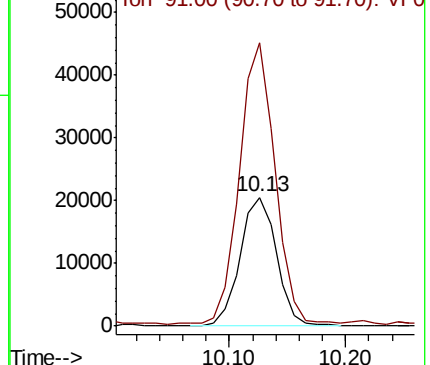
106 100

91 219.6 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 35.095 ug/l

RT: 10.71 min Scan# 1022

Delta R.T. -0.04 min

Lab File: VF061022.D

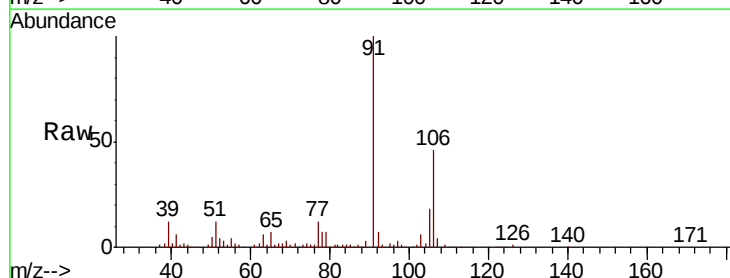
Acq: 14 Dec 2018 16:13

Tgt Ion:106 Resp: 87459

Ion Ratio Lower Upper

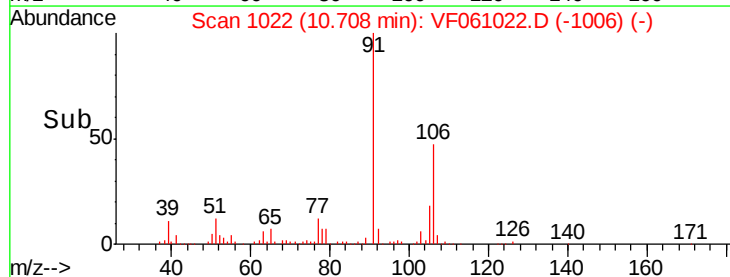
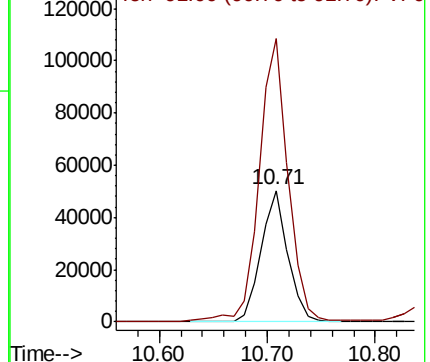
106 100

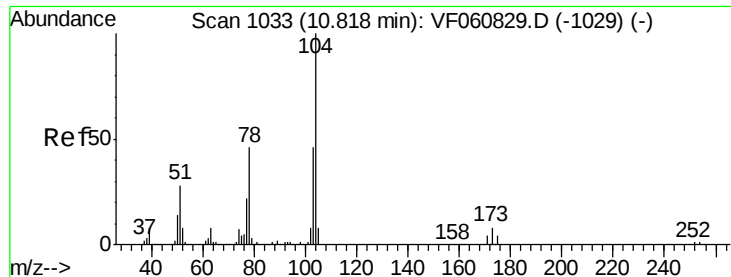
91 215.8 104.8 314.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

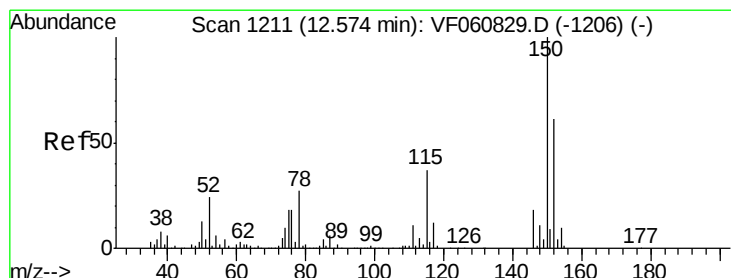
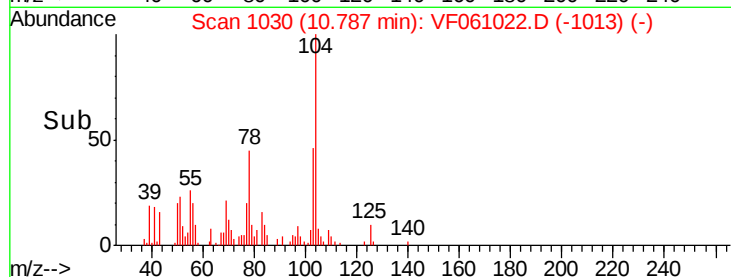
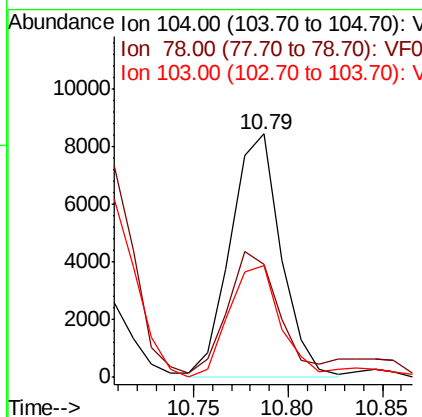
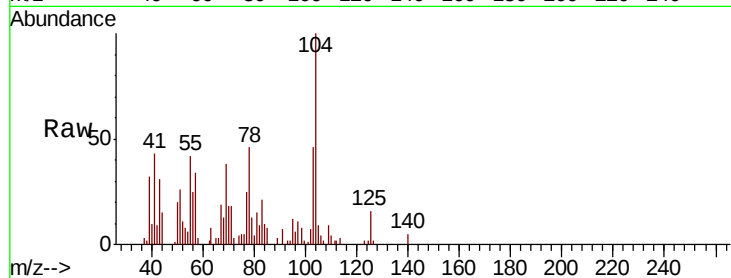




#70
Stvrene
Concen: 4.553 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

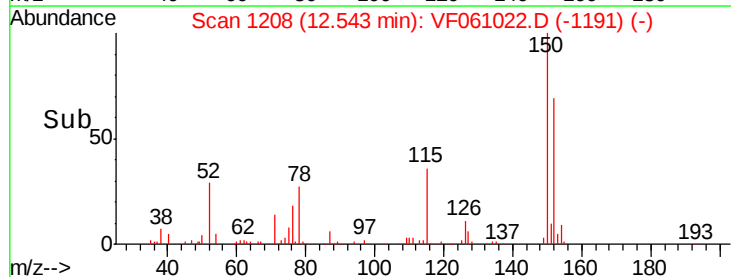
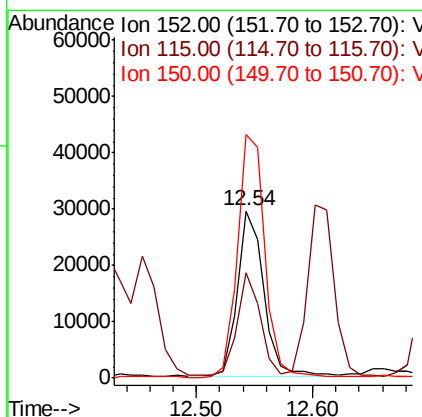
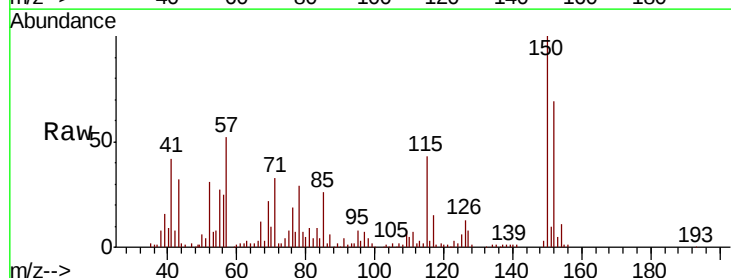
Instrument :
MSVOA_F
ClientSampled :

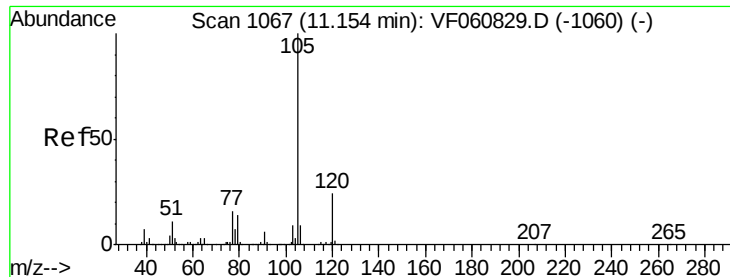
Tot Ion:104 Resp: 15727
Ion Ratio Lower Upper
104 100
78 46.5 37.3 55.9
103 45.9 36.8 55.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

Tgt Ion:152 Resp: 47030
Ion Ratio Lower Upper
152 100
115 63.0 30.1 90.5
150 145.9 0.0 327.6





#73

Isopropylbenzene

Concen: 54.464 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

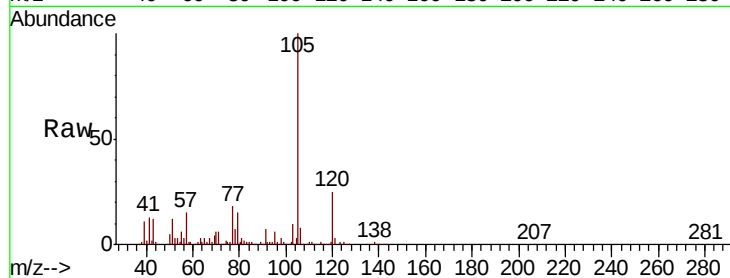
ClientSampleId :

Tot Ion:105 Resp: 202421

Ion Ratio Lower Upper

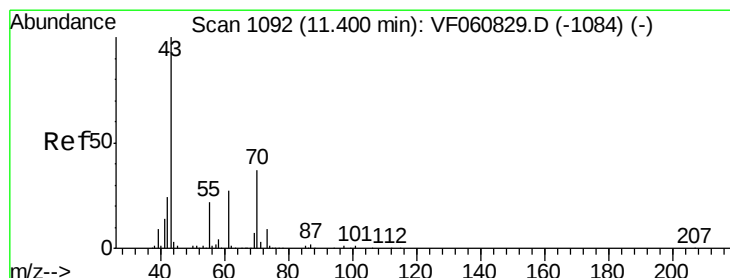
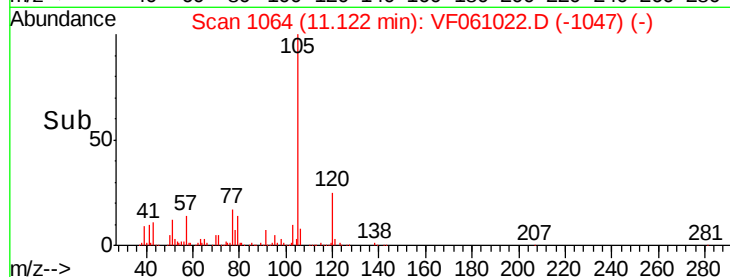
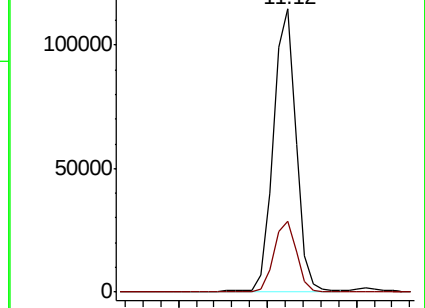
105 100

120 25.2 12.2 36.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 3.758 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Tgt Ion: 43 Resp: 3225

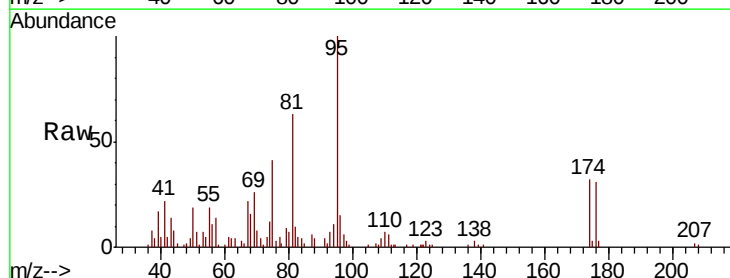
Ion Ratio Lower Upper

43 100

70 56.7 29.6 44.4#

55 134.9 17.2 25.8#

61 37.7 21.8 32.6#

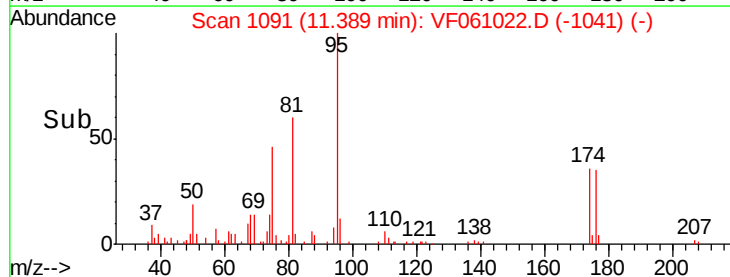
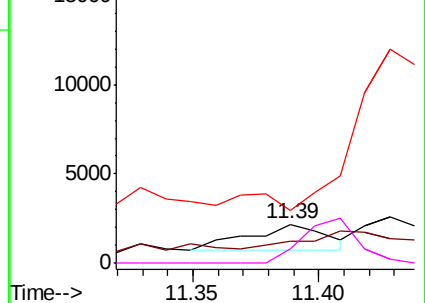


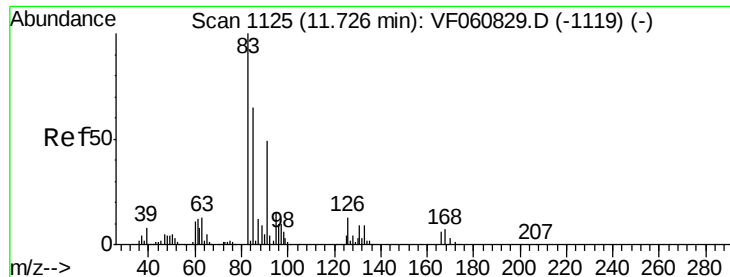
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.740 ug/l

RT: 11.66 min Scan# 1119

Delta R.T. -0.06 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

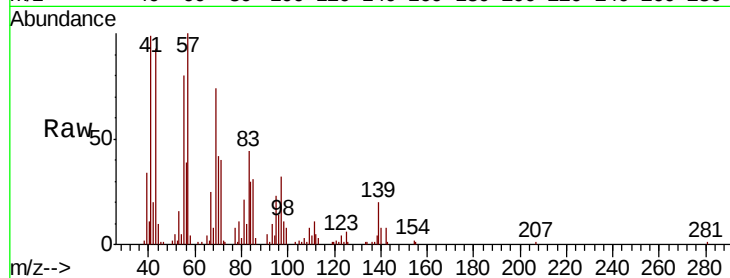
Tot Ion: 83 Resp: 12074

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

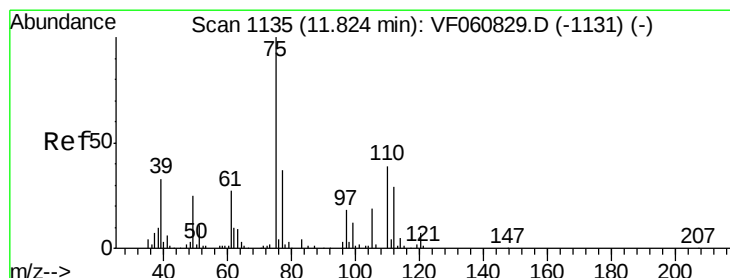
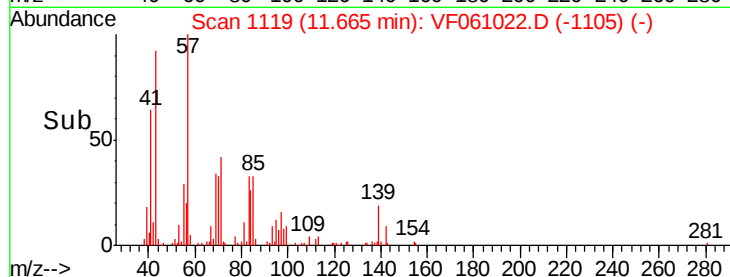
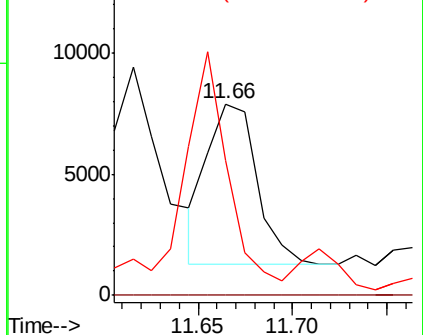
85 70.8 32.6 97.8



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: 13.615 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061022.D

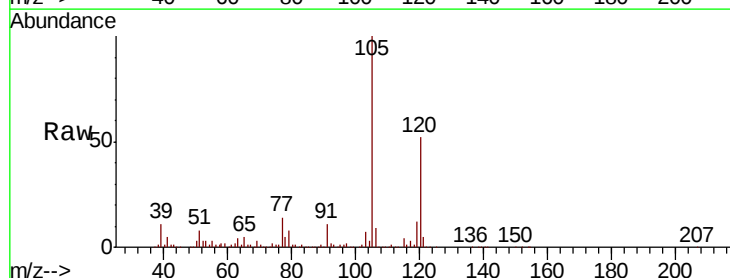
Acq: 14 Dec 2018 16:13

Tgt Ion: 75 Resp: 6053

Ion Ratio Lower Upper

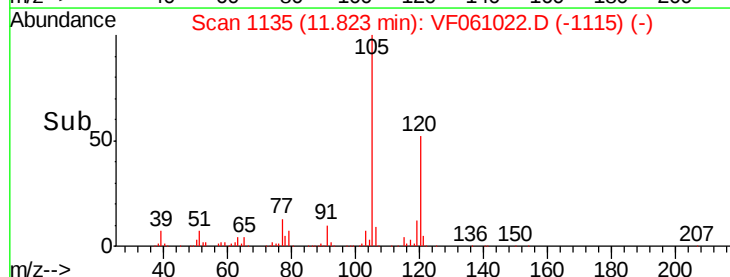
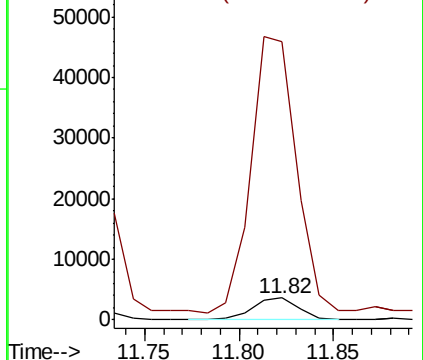
75 100

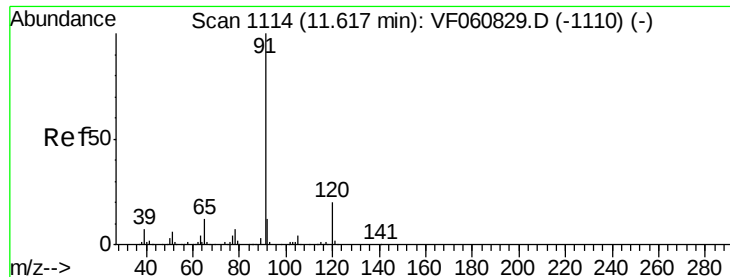
77 1280.0 18.4 55.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 12.108 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.03 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

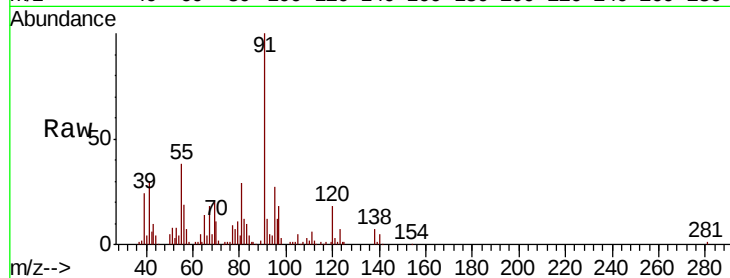
ClientSampleId :

Tot Ion: 91 Resp: 52697

Ion Ratio Lower Upper

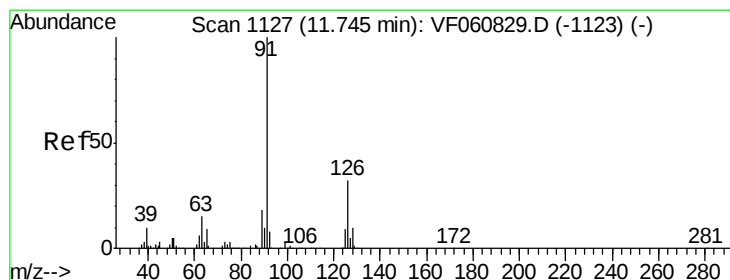
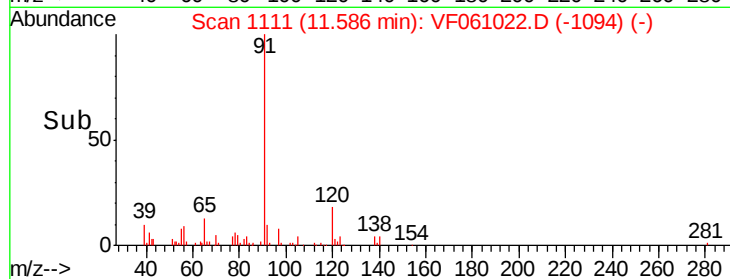
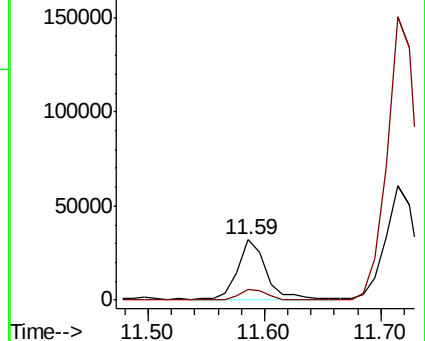
91 100

120 17.6 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 41.410 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.03 min

Lab File: VF061022.D

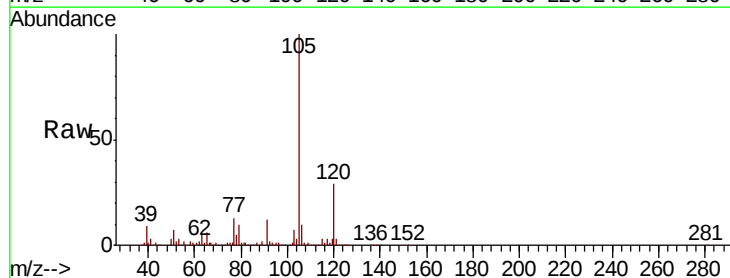
Acq: 14 Dec 2018 16:13

Tgt Ion: 91 Resp: 103344

Ion Ratio Lower Upper

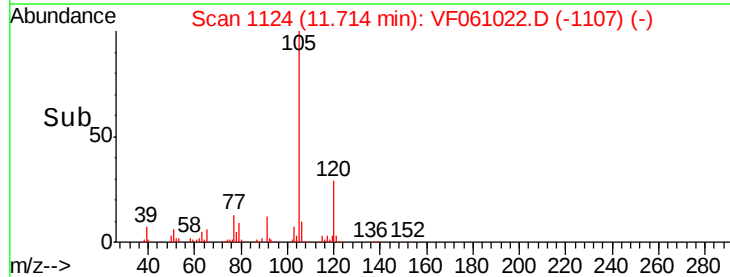
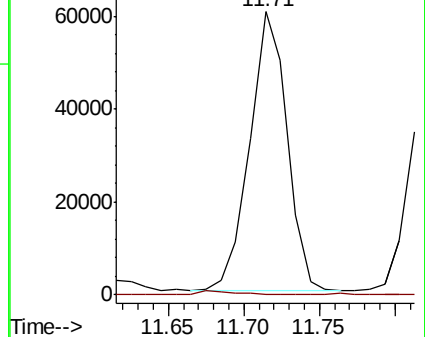
91 100

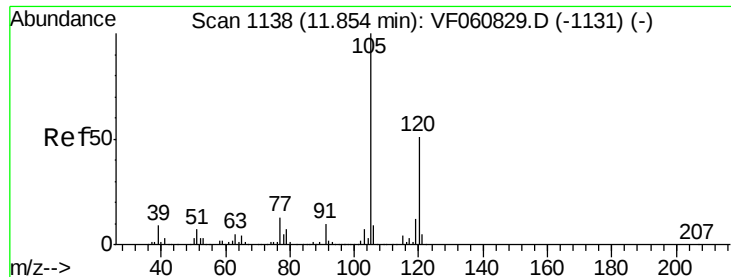
126 0.2 15.9 47.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#80

1,3,5-Trimethylbenzene

Concen: 181.940 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

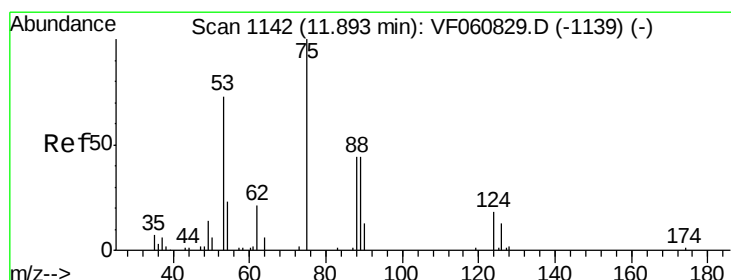
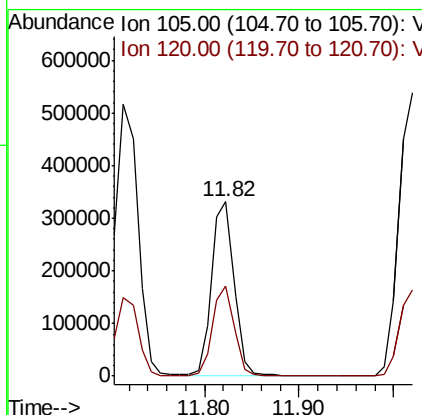
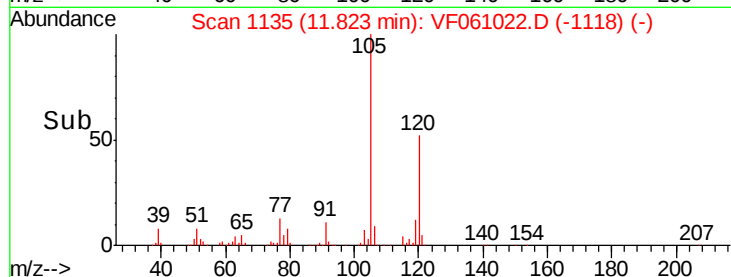
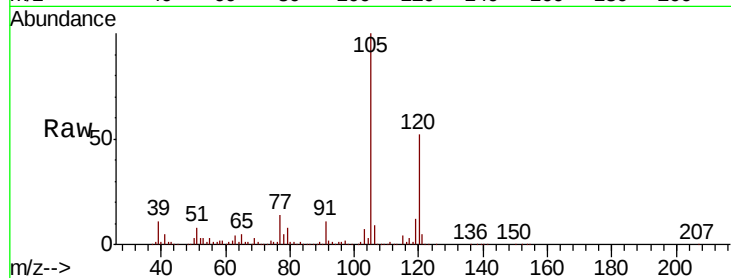
ClientSampleId :

Tot Ion:105 Resp: 548942

Ion Ratio Lower Upper

105 100

120 51.8 25.8 77.3



#81

trans-1,4-Dichloro-2-butene

Concen: 1.497 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

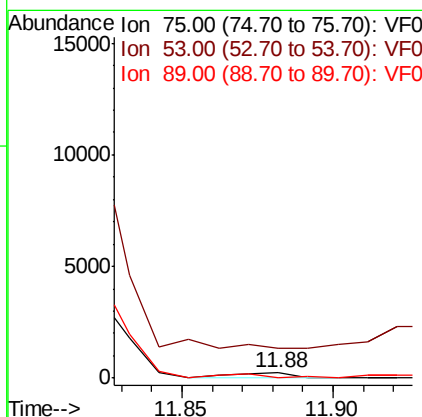
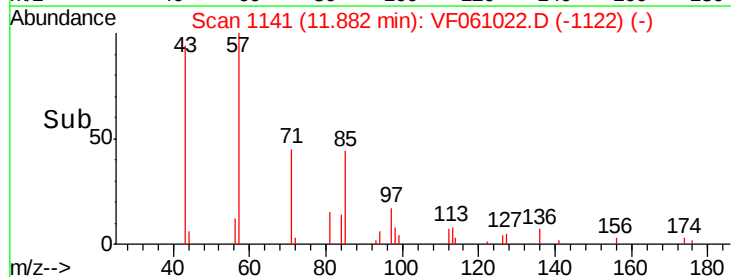
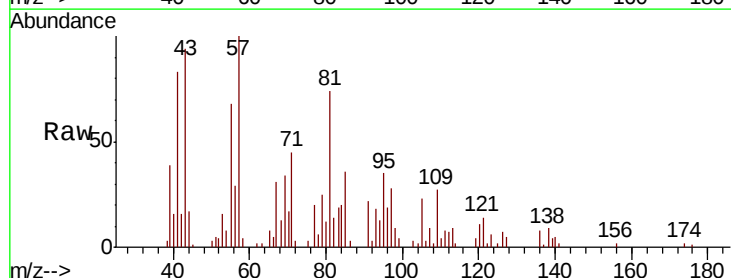
Tgt Ion: 75 Resp: 326

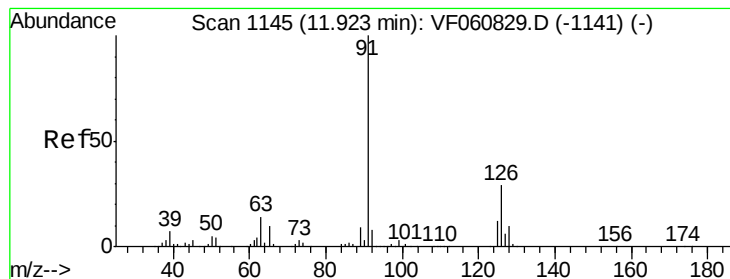
Ion Ratio Lower Upper

75 100

53 579.8 65.9 98.9#

89 0.0 38.8 58.2#





#82

4-Chlorotoluene

Concen: 41.427 ug/l

RT: 12.02 min Scan# 1155

Delta R.T. 0.10 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

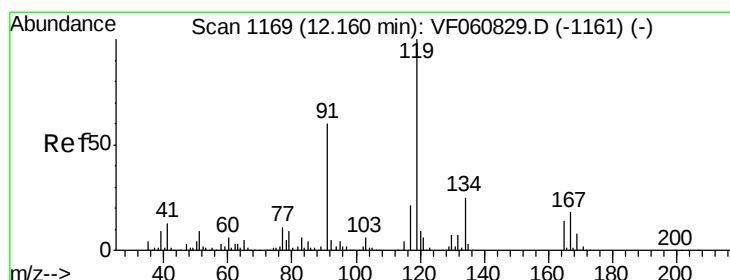
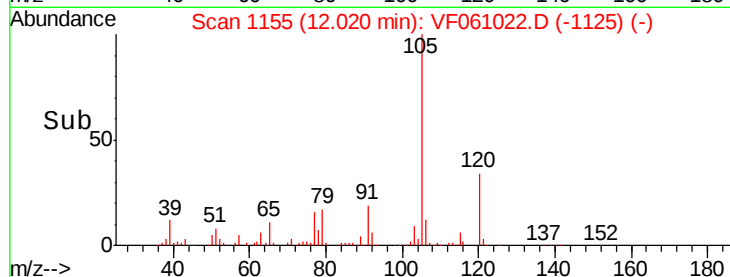
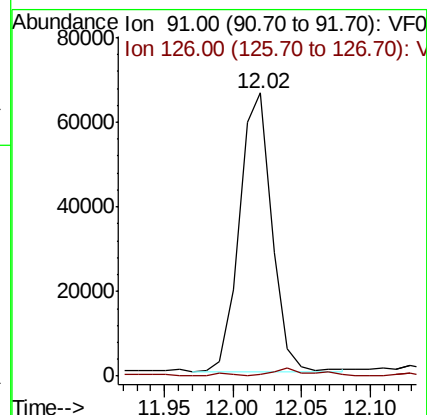
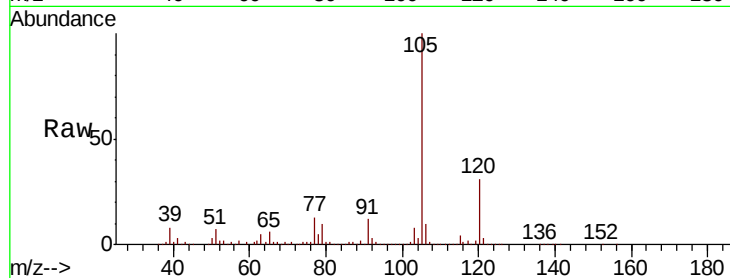
ClientSampleId :

Tot Ion: 91 Resp: 108801

Ion Ratio Lower Upper

91 100

126 0.4 14.8 44.4#



#83

tert-Butylbenzene

Concen: 58.326 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. 0.04 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

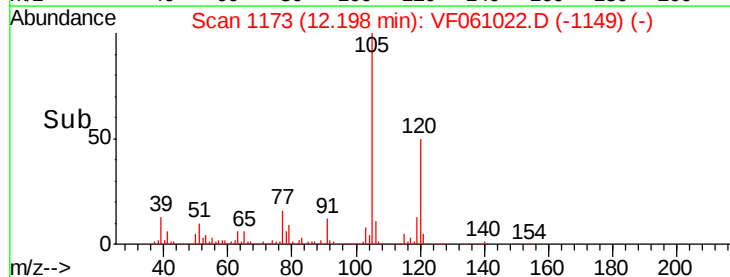
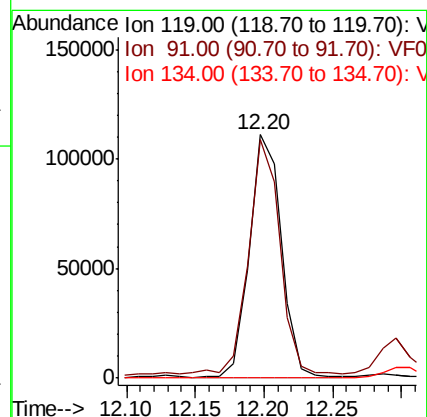
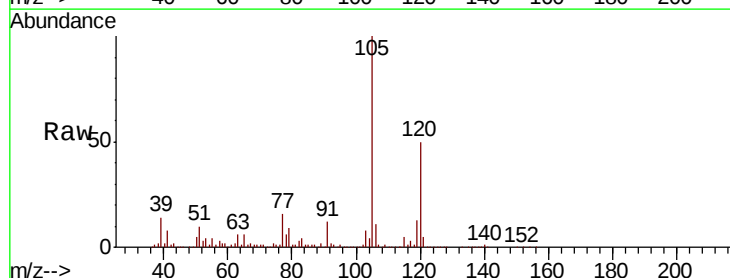
Tgt Ion: 119 Resp: 179257

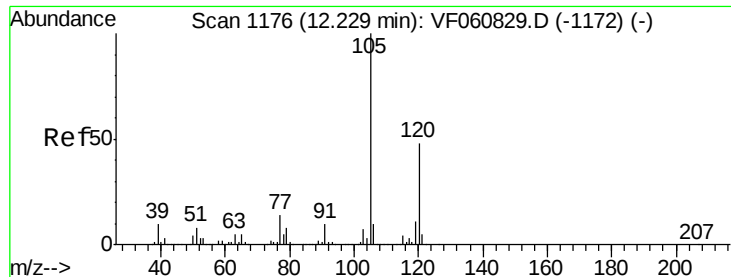
Ion Ratio Lower Upper

119 100

91 98.2 30.1 90.3#

134 0.0 12.6 37.8#





#84

1,2,4-Trimethylbenzene

Concen: 484.734 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.03 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

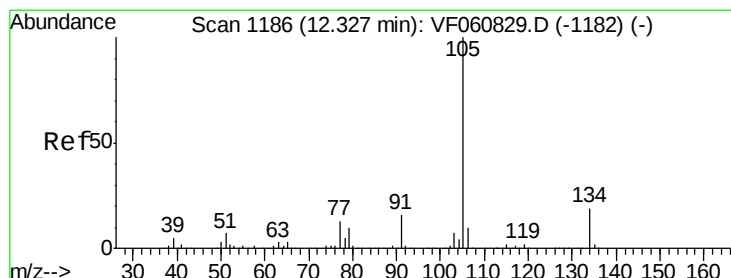
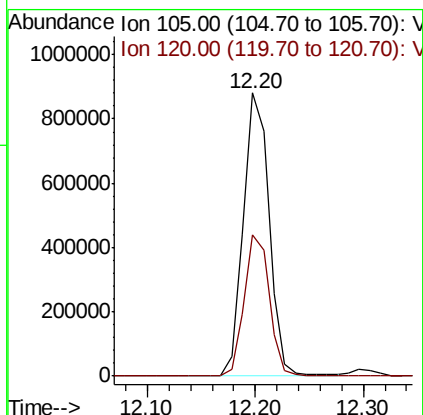
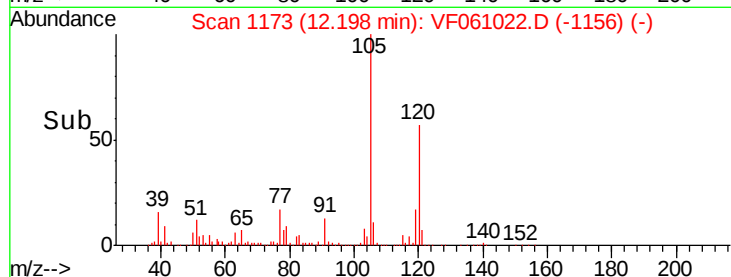
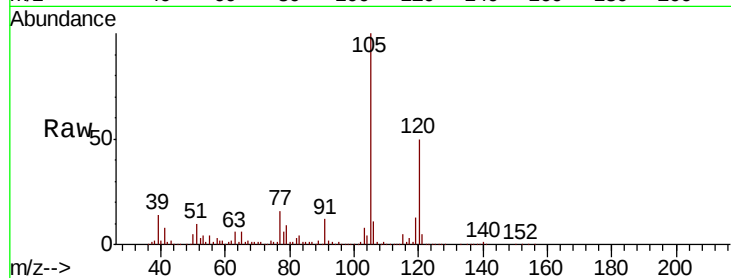
ClientSampleId :

Tot Ion:105 Resp: 1459633

Ion Ratio Lower Upper

105 100

120 49.7 23.8 71.5



#85

sec-Butylbenzene

Concen: 344.544 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.13 min

Lab File: VF061022.D

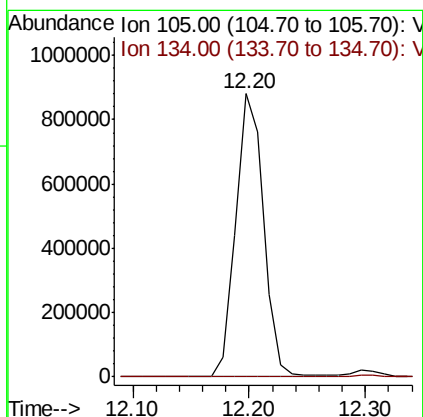
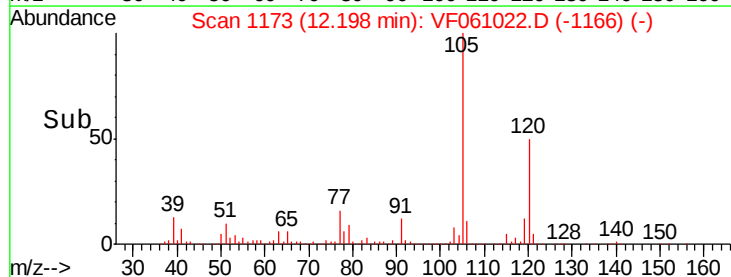
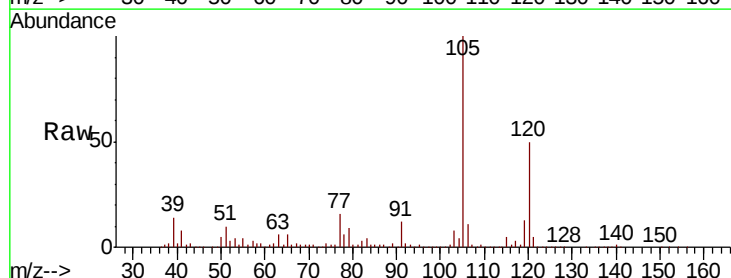
Acq: 14 Dec 2018 16:13

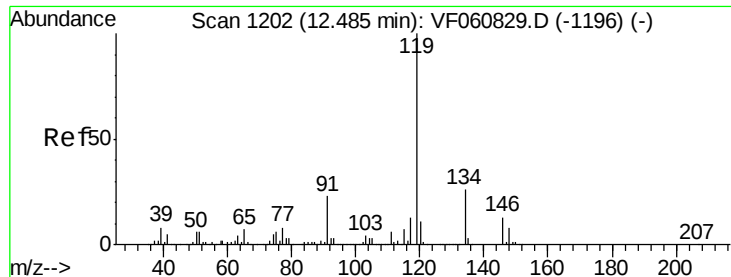
Tgt Ion:105 Resp: 1449586

Ion Ratio Lower Upper

105 100

134 0.0 9.5 28.5#

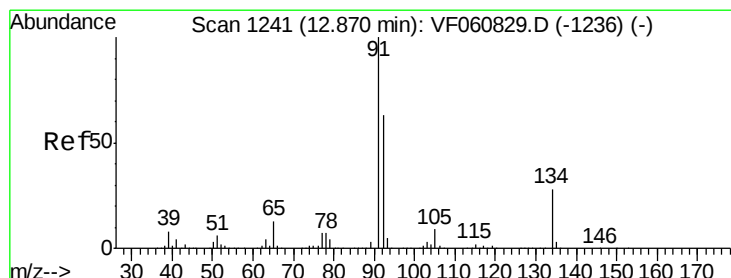
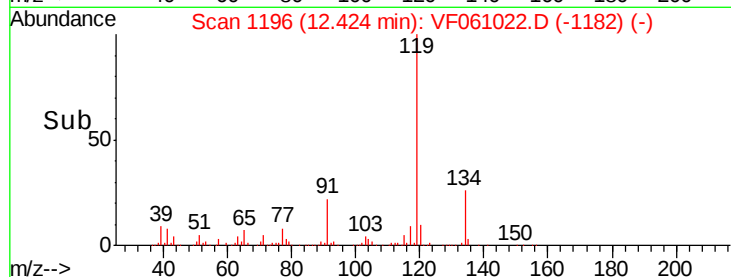
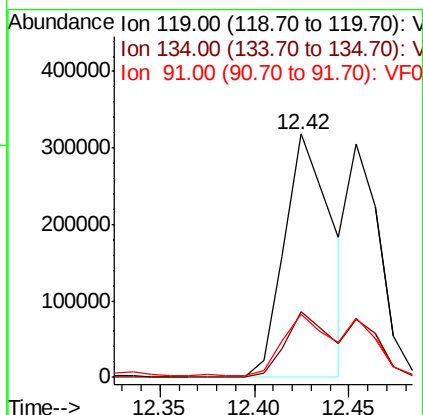
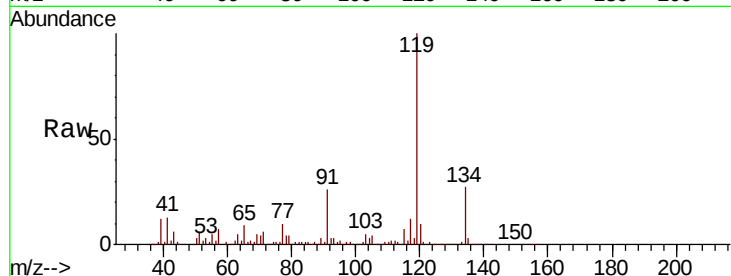




#86
p-Isopropyltoluene
Concen: 156.551 ug/l
RT: 12.42 min Scan# 1196
Delta R.T. -0.06 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

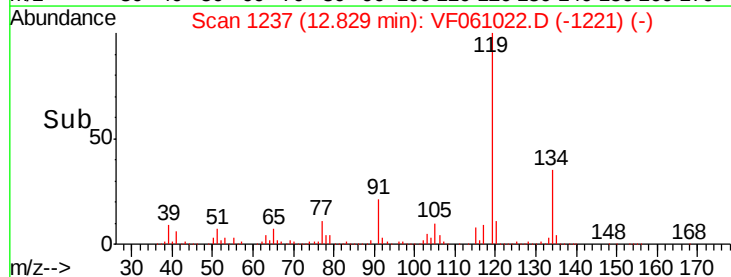
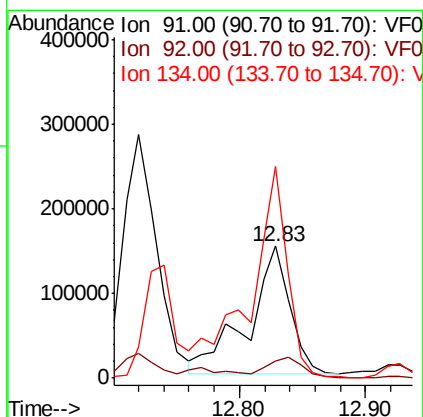
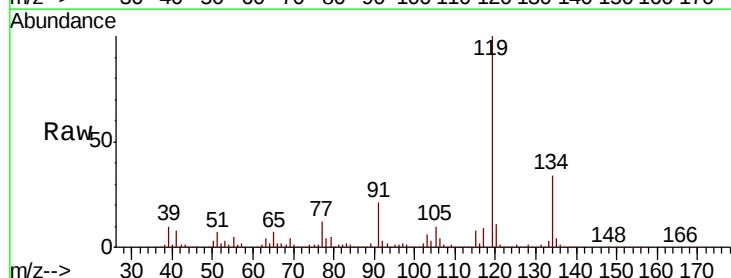
Instrument :
MSVOA_F
ClientSampleId :

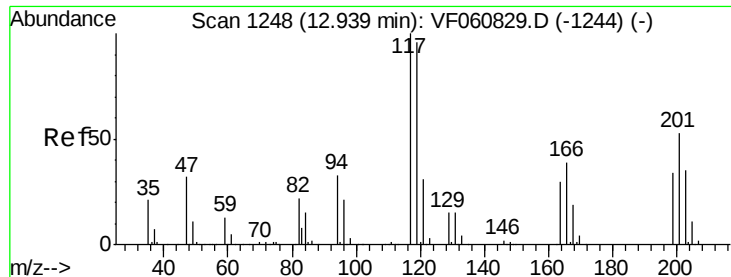
Tot Ion:119 Resp: 552210
Ion Ratio Lower Upper
119 100
134 27.0 12.9 38.6
91 25.9 11.8 35.3



#89
n-Butylbenzene
Concen: 97.664 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.04 min
Lab File: VF061022.D
Acq: 14 Dec 2018 16:13

Tgt Ion: 91 Resp: 348340
Ion Ratio Lower Upper
91 100
92 13.4 31.6 94.7#
134 160.3 13.8 41.4#





#90

Hexachloroethane

Concen: 29.188 ug/l

RT: 12.90 min Scan# 1244

Delta R.T. -0.04 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

Instrument :

MSVOA_F

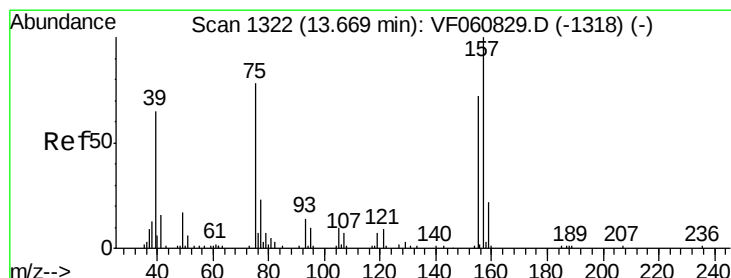
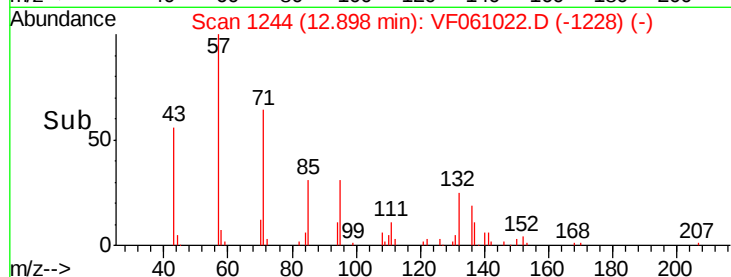
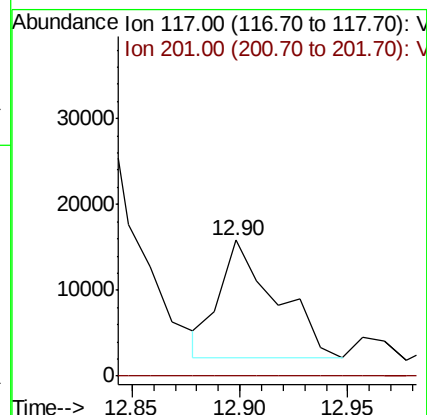
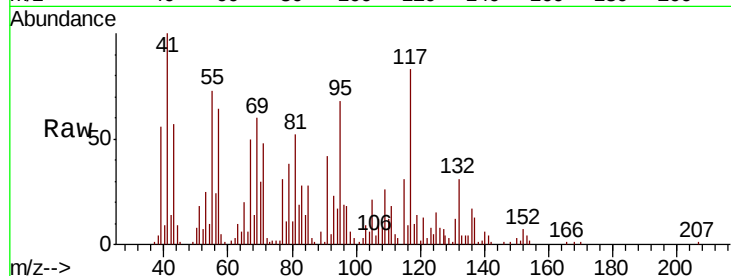
ClientSampled :

Tot Ion:117 Resp: 24792

Ion Ratio Lower Upper

117 100

201 0.0 26.7 80.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 35.169 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. -0.03 min

Lab File: VF061022.D

Acq: 14 Dec 2018 16:13

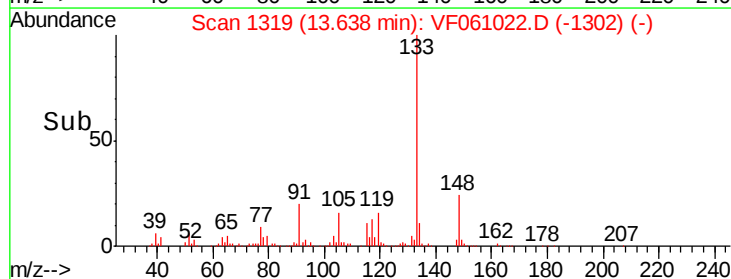
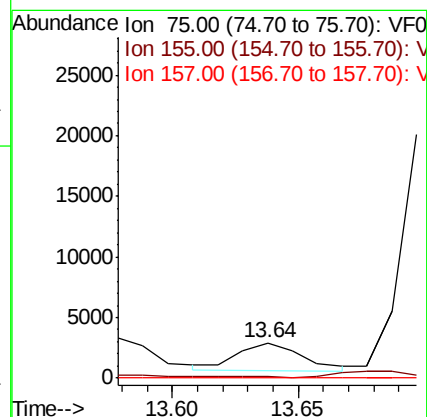
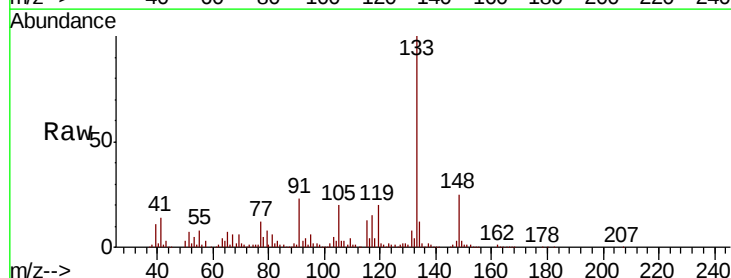
Tgt Ion: 75 Resp: 4159

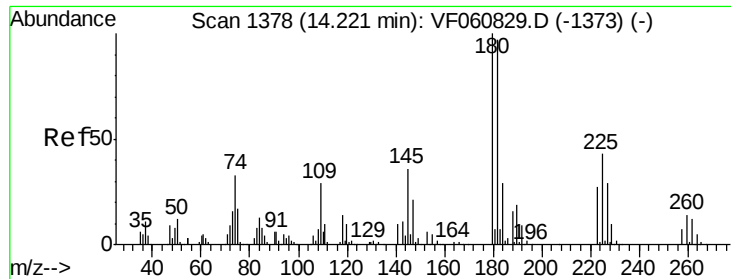
Ion Ratio Lower Upper

75 100

155 4.6 45.6 136.9#

157 0.0 63.8 191.5#

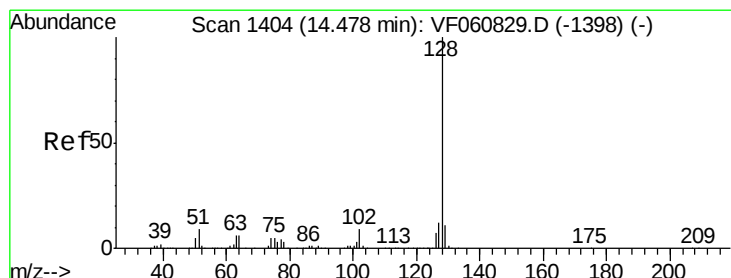
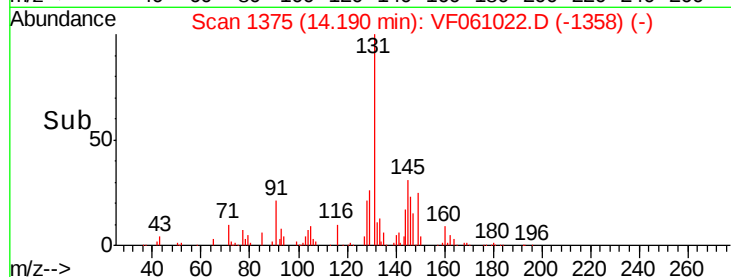
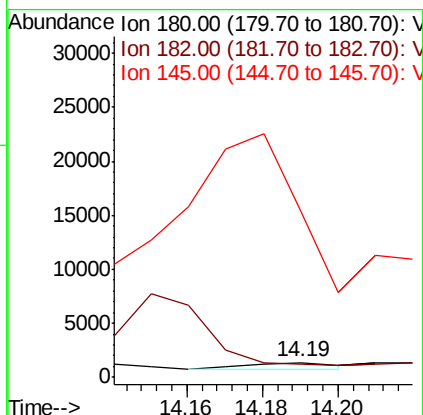
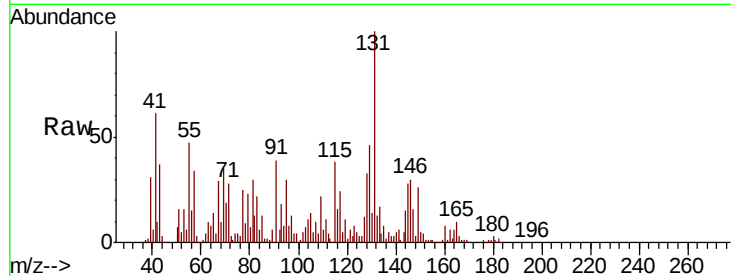




#93
 1,2,4-Trichlorobenzene
 Concen: 1.026 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.03 min
 Lab File: VF061022.D
 Acq: 14 Dec 2018 16:13

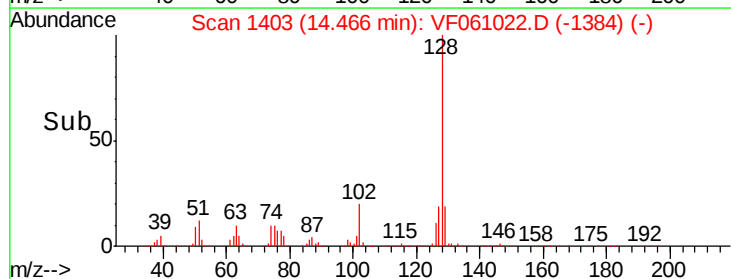
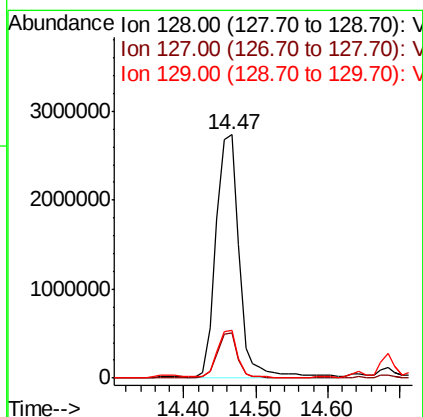
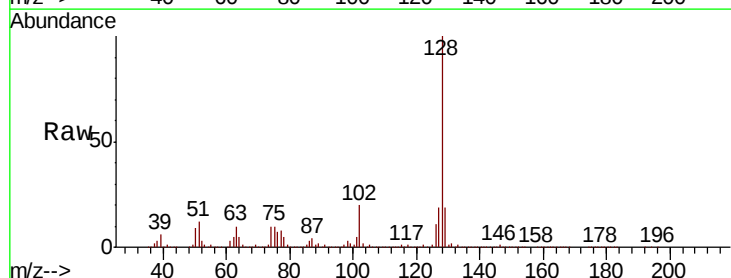
Instrument :
 MSVOA_F
 ClientSampleId :

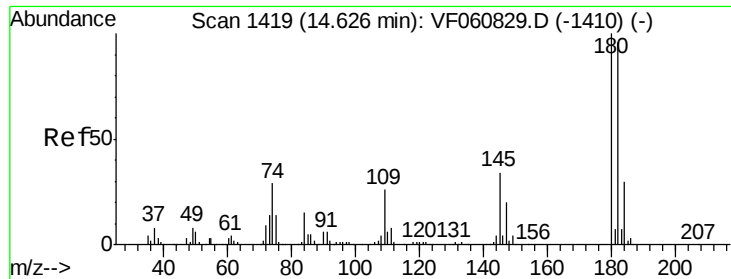
Tot Ion:180 Resp: 1052
 Ion Ratio Lower Upper
 180 100
 182 86.0 48.5 145.5
 145 1093.0 18.1 54.3#



#95
 Naphthalene
 Concen: 3260.832 ug/l
 RT: 14.47 min Scan# 1403
 Delta R.T. -0.01 min
 Lab File: VF061022.D
 Acq: 14 Dec 2018 16:13

Tgt Ion:128 Resp: 6043528
 Ion Ratio Lower Upper
 128 100
 127 18.8 9.9 14.9#
 129 19.5 9.1 13.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 5.836 ug/l
 RT: 14.63 min Scan# 1420
 Delta R.T. 0.01 min
 Lab File: VF061022.D
 Acq: 14 Dec 2018 16:13

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:180 Resp: 5557
 Ion Ratio Lower Upper
 180 100
 182 41.4 47.9 143.8#
 145 294.2 17.2 51.5#

