

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100518\
 Data File : VF060472.D
 Acq On : 5 Oct 2018 23:19
 Operator : VA/AP
 Sample : J5084-17
 Misc : 5.75/5mL/MSVOA F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 B-4(14.5-15)

Quant Time: Oct 06 04:39:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	164601	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.75	114	230201	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	136412	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	62600	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	92297	35.83	ug/l	0.01
Spiked Amount			Recovery	=	71.66%	
35) Dibromofluoromethane	4.27	113	72987	33.75	ug/l	0.01
Spiked Amount			Recovery	=	67.50%	
50) Toluene-d8	7.70	98	276844	51.98	ug/l	0.02
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	11.50	95	293559	120.71	ug/l	0.01
Spiked Amount			Recovery	=	241.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	472	Below Cal		93
3) Chloromethane	1.13	50	40321	18.040	ug/l #	72
6) Chloroethane	1.39	64	1738	1.498	ug/l #	1
11) Tert butyl alcohol	2.68	59	1585	10.174	ug/l #	1
13) Acrolein	2.09	56	546448	4361.479	ug/l #	1
14) Allyl chloride	2.09	41	4106632	1283.640	ug/l #	46
15) Acrylonitrile	3.07	53	303390	1136.506	ug/l #	58
16) Acetone	2.29	43	1144772	2357.632	ug/l #	92
17) Carbon Disulfide	1.88	76	10792	1.785	ug/l #	88
18) Methyl Acetate	2.48	43	1336734	1429.981	ug/l #	57
20) Methylene Chloride	2.27	84	12192	1.031	ug/l #	1
23) Vinyl Acetate	3.28	43	122810	53.240	ug/l #	91
24) 1,1-Dichloroethane	2.94	63	7535	1.919	ug/l #	93
25) 2-Butanone	4.53	43	935145	1402.197	ug/l #	67
26) 2,2-Dichloropropane	3.67	77	25980	11.681	ug/l #	61
27) cis-1,2-Dichloroethene	3.59	96	2667	1.196	ug/l	1
28) Bromochloromethane	3.93	49	8799	6.080	ug/l #	10
29) Tetrahydrofuran	4.19	42	811325	3285.097	ug/l #	1
30) Chloroform	4.09	83	31108	6.420	ug/l #	1
31) Cyclohexane	3.91	56	1689580	599.184	ug/l #	57
37) Ethyl Acetate	4.19	43	3949078	3633.478	ug/l #	1
39) Methylcyclohexane	5.63	83	2468529	887.189	ug/l	98
40) Benzene	4.81	78	17848	3.168	ug/l #	65
41) Methacrylonitrile	4.84	41	2013368	3493.758	ug/l #	43
42) 1,2-Dichloroethane	5.09	62	16733	6.225	ug/l #	1
43) Isopropyl Acetate	7.19	43	218294	166.200	ug/l #	46
45) 1,2-Dichloropropane	6.46	63	70058	46.690	ug/l #	1
46) Dibromomethane	6.14	93	5205	4.314	ug/l #	1
47) Bromodichloromethane	6.47	83	260966	87.343	ug/l #	27
48) Methyl methacrylate	6.77	41	3505510	3718.060	ug/l #	48
49) 1,4-Dioxane	6.83	88	102	12.547	ug/l #	1
51) 4-Methyl-2-Pentanone	8.43	43	2193864	2346.460	ug/l #	45
52) Toluene	7.77	92	22137	5.784	ug/l #	52
55) 1,1,2-Trichloroethane	8.54	97	539172	444.478	ug/l #	35

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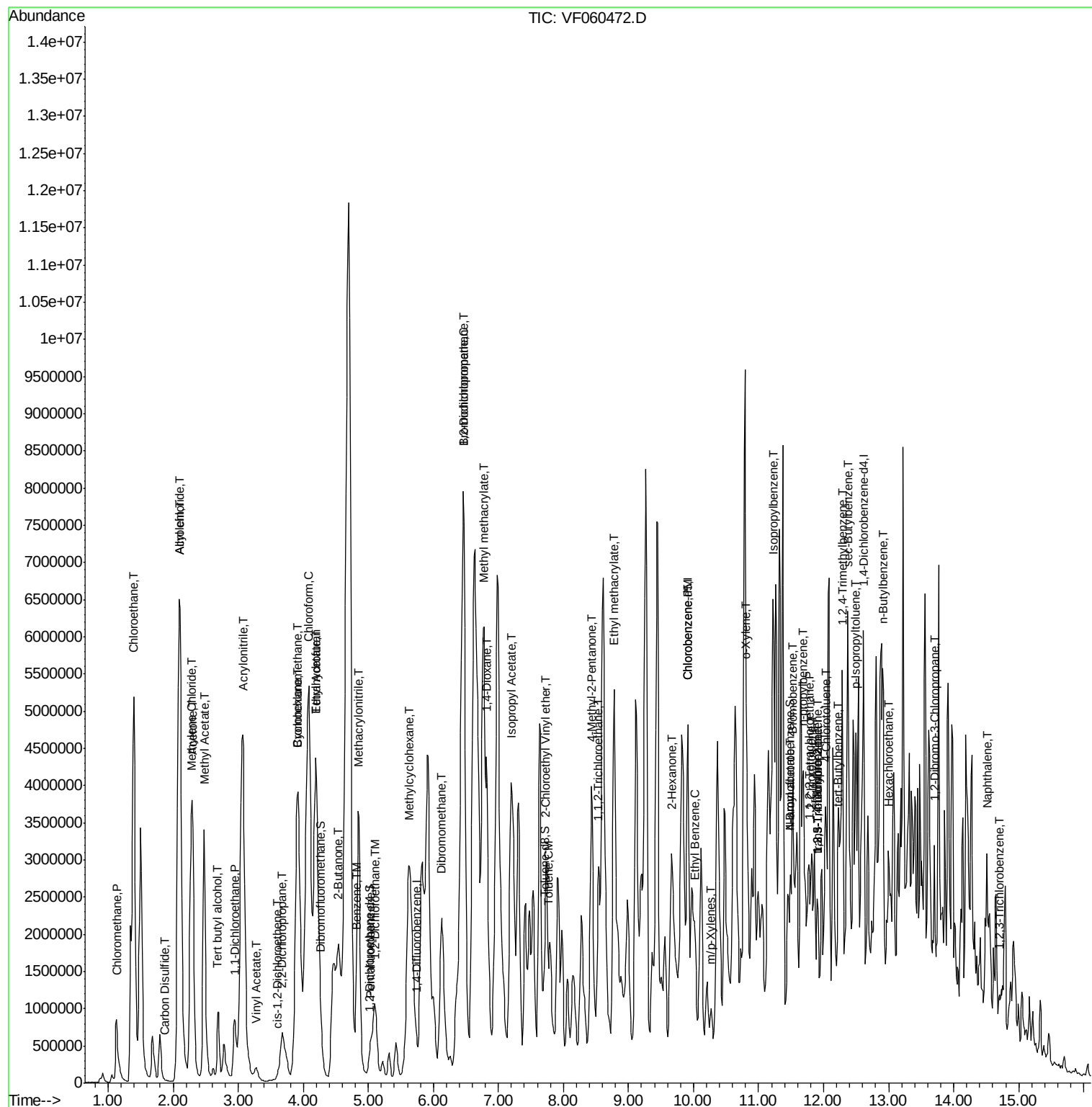
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Ethyl methacrylate	8.78	69	2943105	2135.137	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.74	63	25229	179.185	ug/l	100
59) 2-Hexanone	9.66	43	533056	777.292	ug/l #	49
65) Chlorobenzene	9.90	112	27950	9.974	ug/l #	40
67) Ethyl Benzene	10.03	91	462575	86.820	ug/l	94
68) m/p-Xylenes	10.26	106	78503	42.861	ug/l	79
69) o-Xylene	10.82	106	7460	3.737	ug/l #	1
73) Isopropylbenzene	11.22	105	308130	62.514	ug/l	97
74) N-amyl acetate	11.49	43	482587	426.606	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	11.76	83	135595	150.892	ug/l #	86
76) 1,2,3-Trichloropropane	11.90	75	2396	3.622	ug/l #	1
77) Bromobenzene	11.54	156	6896	6.259	ug/l #	1
78) n-propylbenzene	11.69	91	1505793	252.000	ug/l	96
79) 2-Chlorotoluene	11.80	91	49858	14.264	ug/l #	58
80) 1,3,5-Trimethylbenzene	11.90	105	38013	9.077	ug/l	88
81) trans-1,4-Dichloro-2-buten	11.90	75	2396	8.170	ug/l #	1
82) 4-Chlorotoluene	12.04	91	25795	7.213	ug/l	79
83) tert-Butylbenzene	12.21	119	26598	6.440	ug/l #	19
84) 1,2,4-Trimethylbenzene	12.28	105	50319	12.116	ug/l	96
85) sec-Butylbenzene	12.39	105	1183266	207.544	ug/l #	66
86) p-Isopropyltoluene	12.50	119	82917	17.802	ug/l #	69
89) n-Butylbenzene	12.92	91	1891331	383.733	ug/l	96
90) Hexachloroethane	13.00	117	58186	48.333	ug/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.70	75	10846	62.259	ug/l #	27
95) Naphthalene	14.51	128	285653	107.600	ug/l #	71
96) 1,2,3-Trichlorobenzene	14.69	180	3640	2.615	ug/l #	1

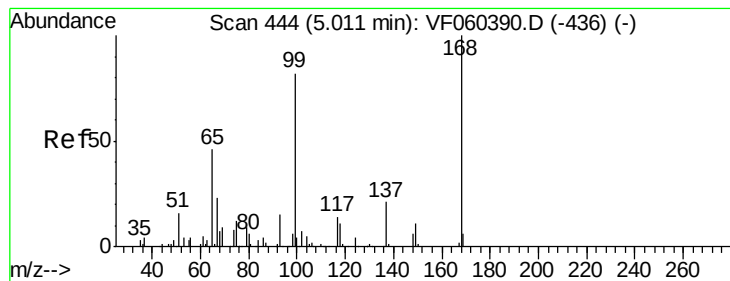
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

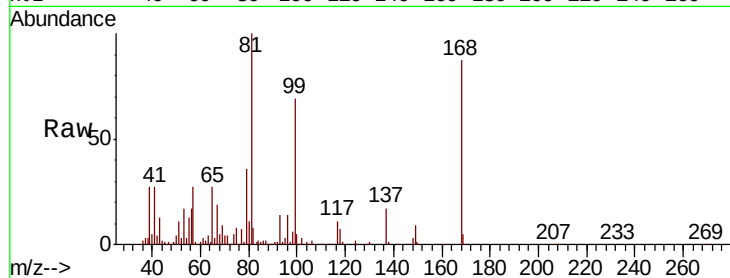
B-4(14.5-15)

Tot Ion:168 Resp: 164601

Ion Ratio Lower Upper

168 100

99 79.3 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

60000

50000

40000

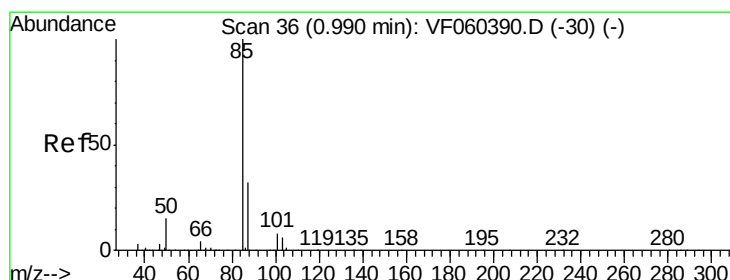
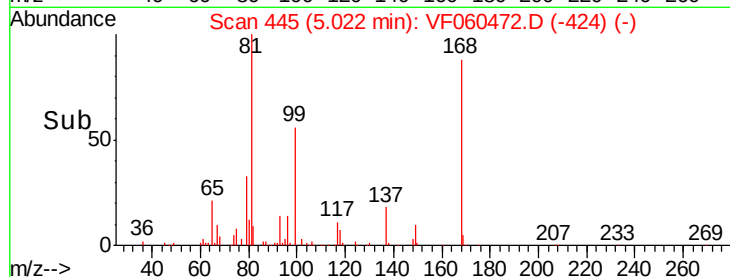
30000

20000

10000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 36

Delta R.T. 0.00 min

Lab File: VF060472.D

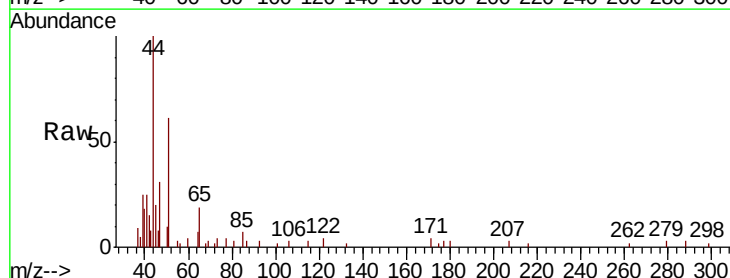
Acq: 5 Oct 2018 23:19

Tgt Ion: 85 Resp: 472

Ion Ratio Lower Upper

85 100

87 35.3 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

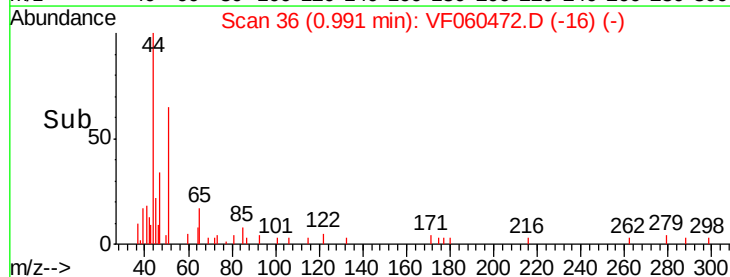
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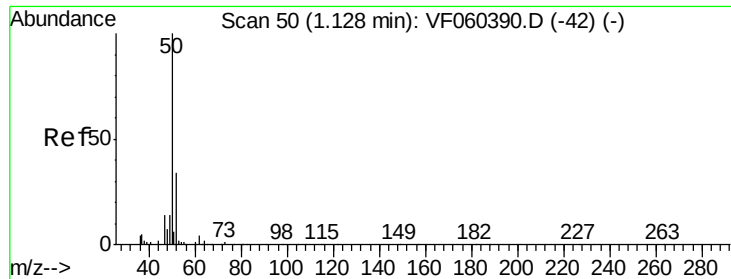
200

100

0

Time-->





#3

Chloromethane

Concen: 18.040 ug/l

RT: 1.13 min Scan# 50

Delta R.T. 0.00 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

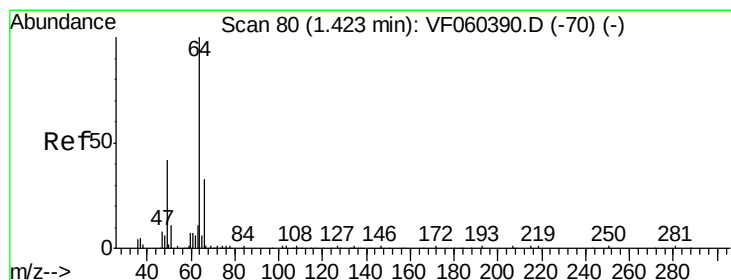
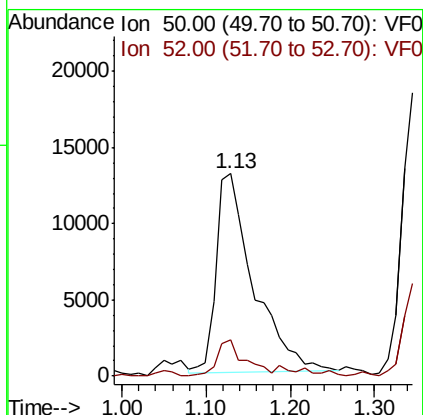
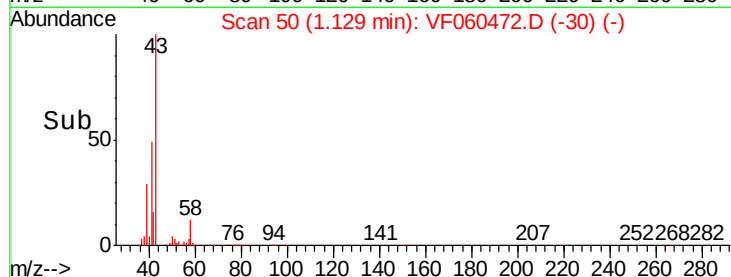
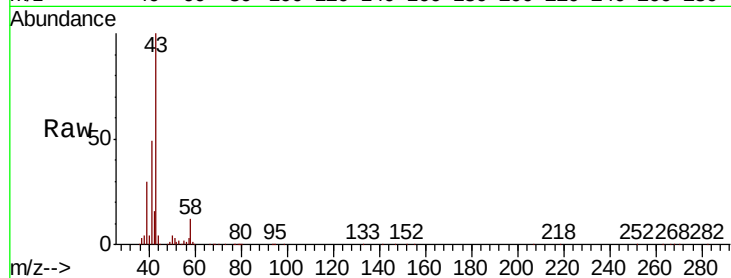
B-4(14.5-15)

Tot Ion: 50 Resp: 40321

Ion Ratio Lower Upper

50 100

52 17.7 26.9 40.3#



#6

Chloroethane

Concen: 1.498 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.03 min

Lab File: VF060472.D

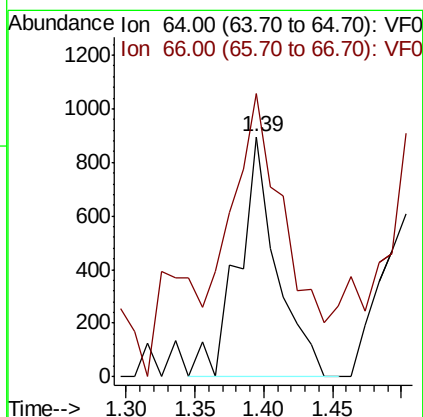
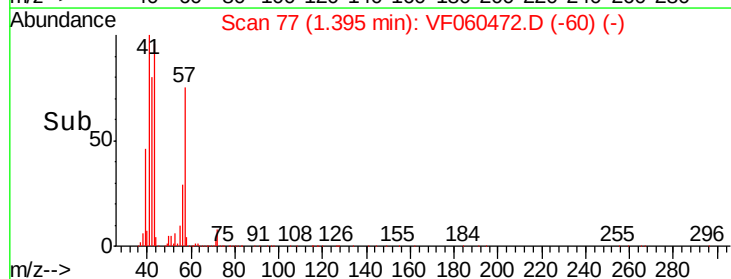
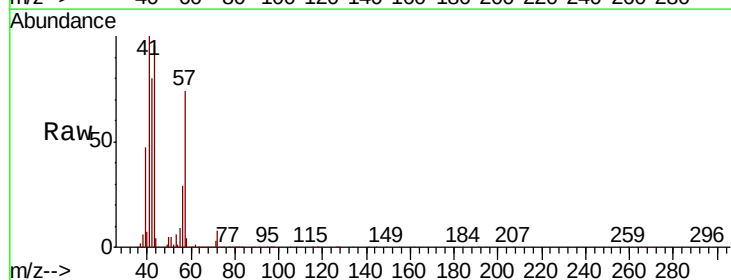
Acq: 5 Oct 2018 23:19

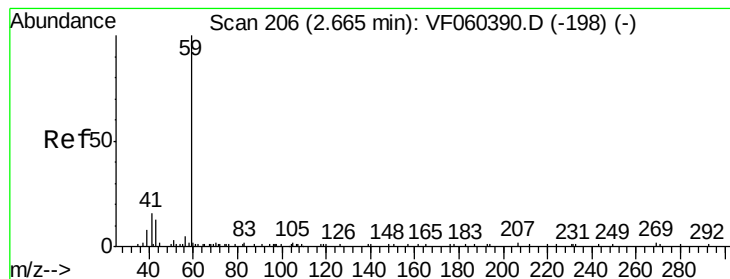
Tgt Ion: 64 Resp: 1738

Ion Ratio Lower Upper

64 100

66 118.0 26.3 39.5#



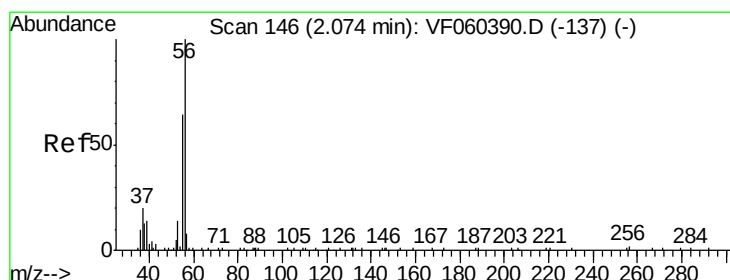
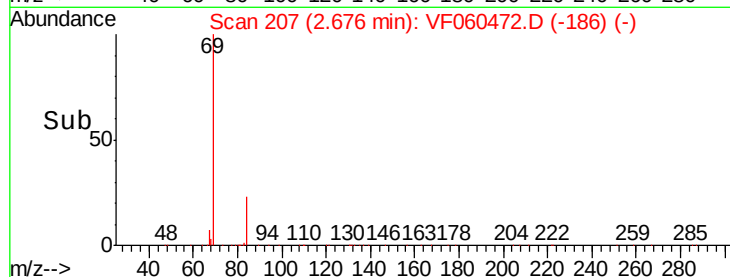
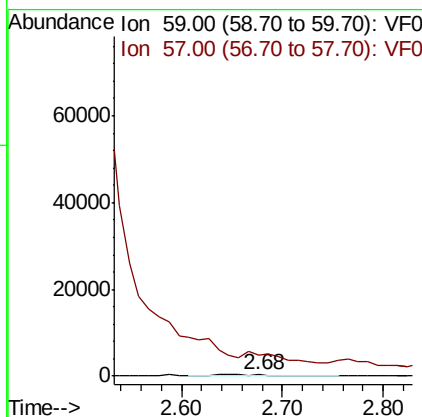
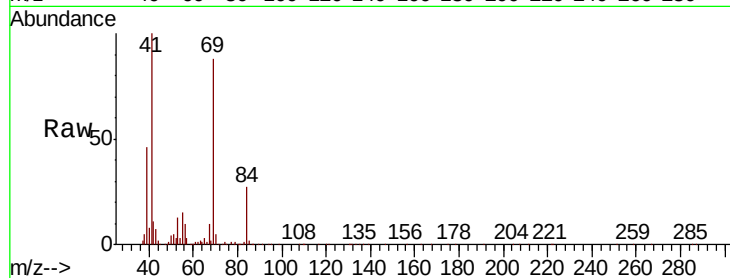


#11

Tert butyl alcohol
 Concen: 10.174 ug/l
 RT: 2.68 min Scan# 207
 Delta R.T. 0.01 min
 Lab File: VF060472.D
 Acq: 5 Oct 2018 23:19

Instrument :
 MSVOA_F
 ClientSampleId :
 B-4(14.5-15)

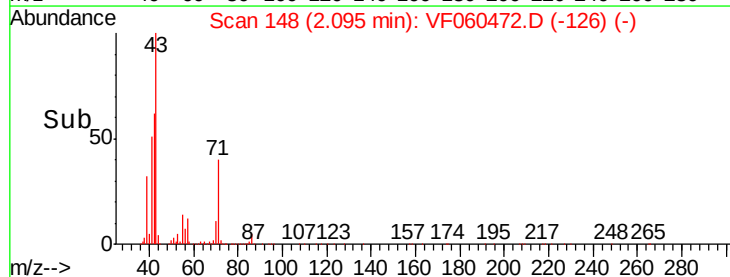
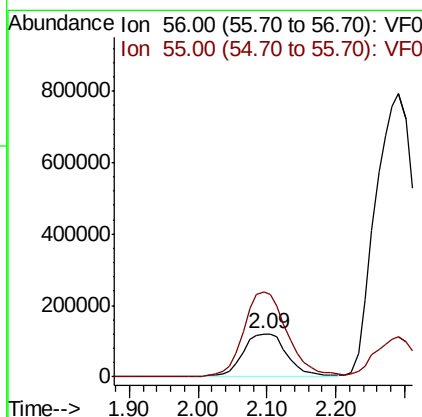
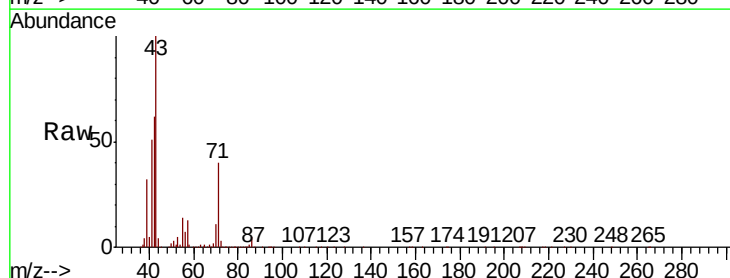
Tot Ion: 59 Resp: 1585
 Ion Ratio Lower Upper
 59 100
 57 1248.7 6.5 9.7#

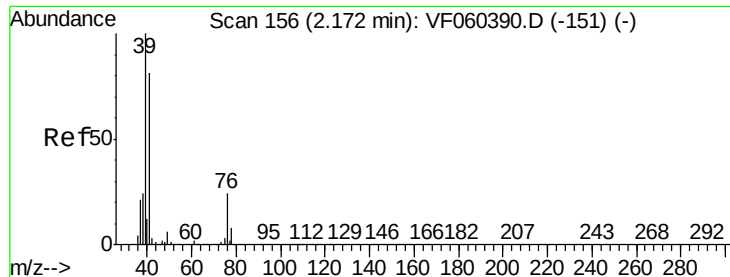


#13

Acrolein
 Concen: 4361.479 ug/l
 RT: 2.09 min Scan# 148
 Delta R.T. 0.02 min
 Lab File: VF060472.D
 Acq: 5 Oct 2018 23:19

Tgt Ion: 56 Resp: 546448
 Ion Ratio Lower Upper
 56 100
 55 197.6 53.9 80.9#





#14

Allvl chloride

Concen: 1283.640 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.08 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

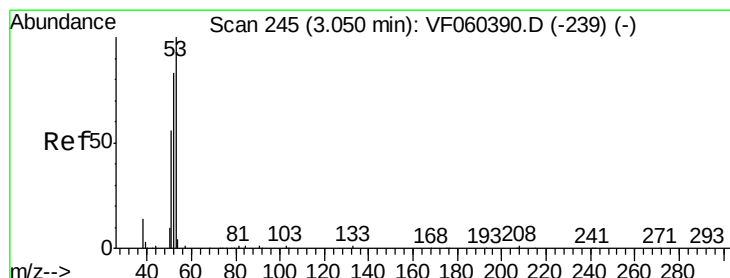
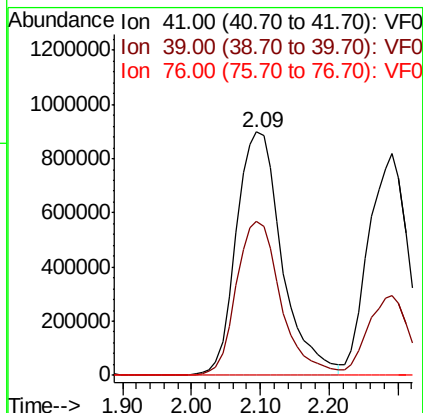
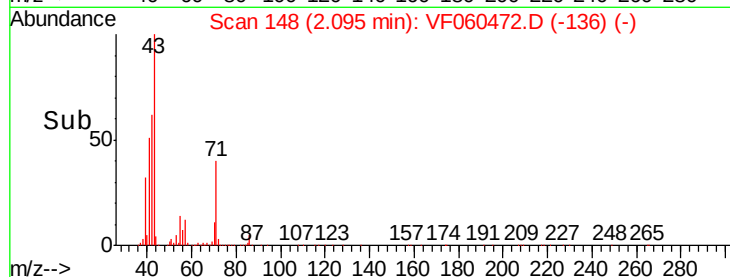
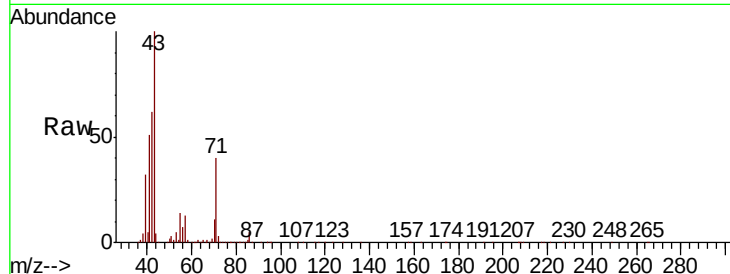
MSVOA_F

ClientSampleId :

B-4(14.5-15)

Tot Ion: 41 Resp: 4106632

Ion	Ratio	Lower	Upper
41	100		
39	63.0	98.3	147.5#
76	0.0	23.9	35.9#



#15

Acrylonitrile

Concen: 1136.506 ug/l

RT: 3.07 min Scan# 247

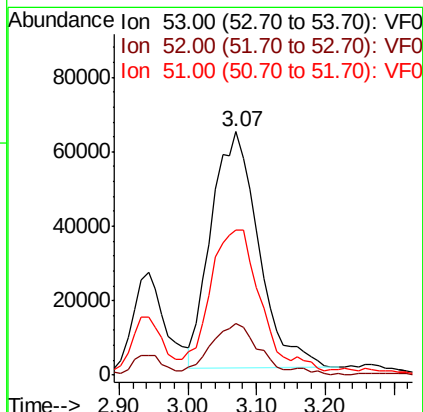
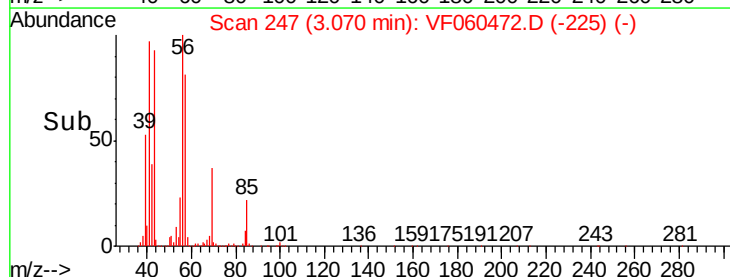
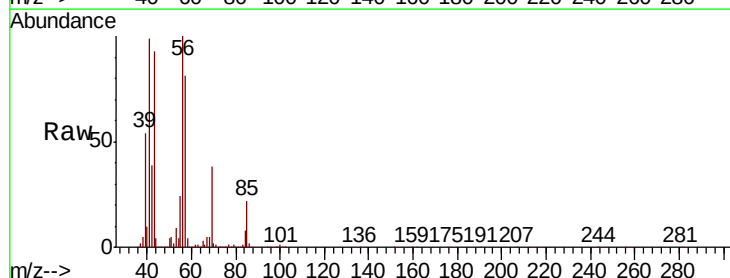
Delta R.T. 0.02 min

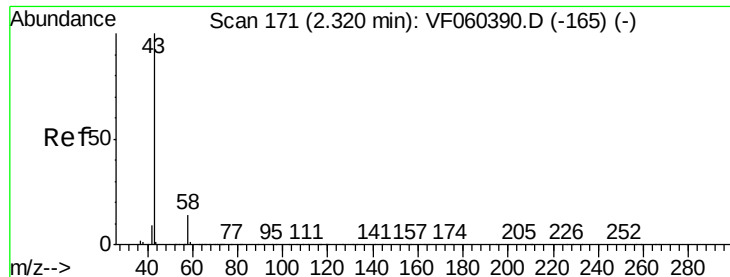
Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Tgt Ion: 53 Resp: 303390

Ion	Ratio	Lower	Upper
53	100		
52	21.3	66.0	99.0#
51	59.7	45.6	68.4

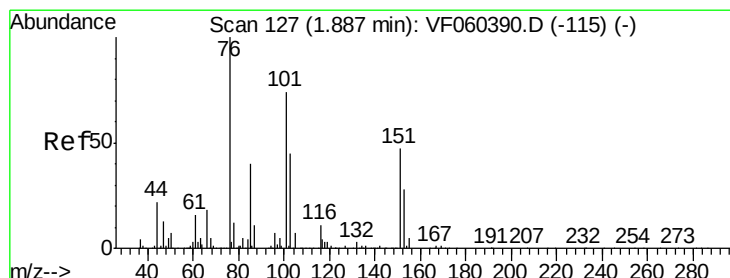
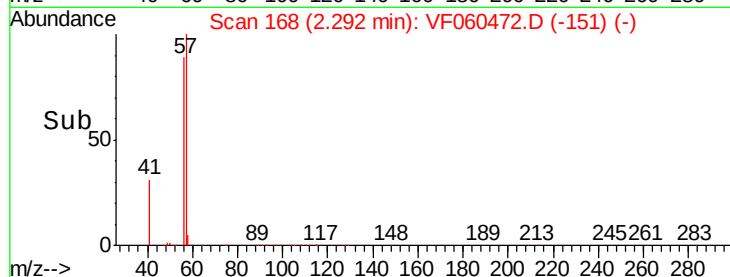
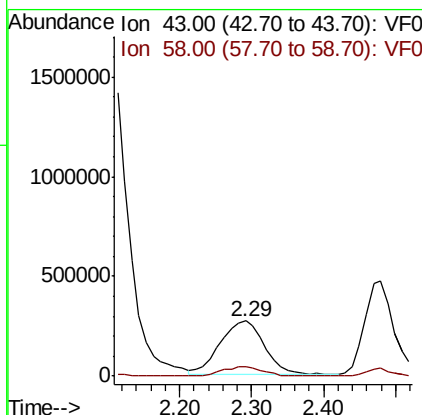
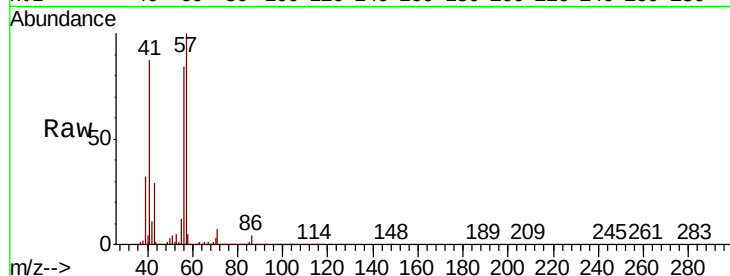




#16
Acetone
Concen: 2357.632 ug/l
RT: 2.29 min Scan# 168
Delta R.T. -0.03 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

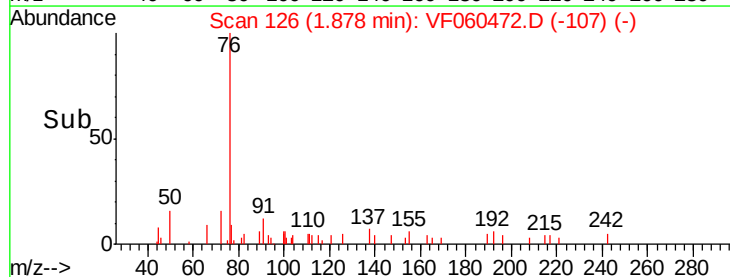
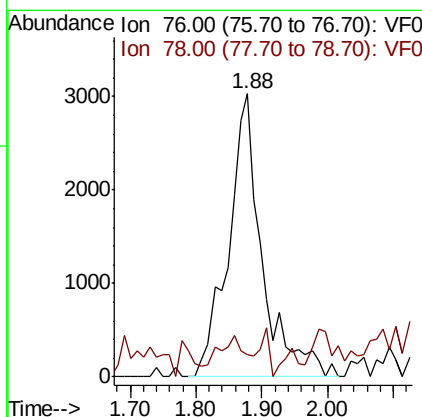
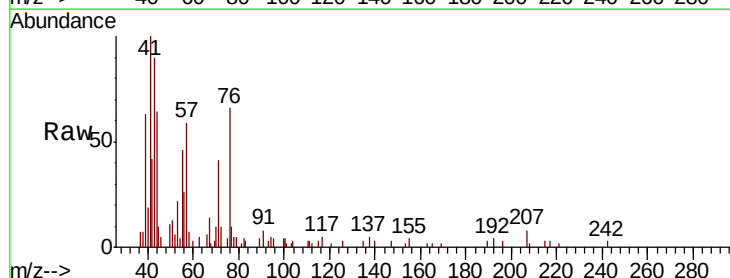
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B-4(14.5-15)

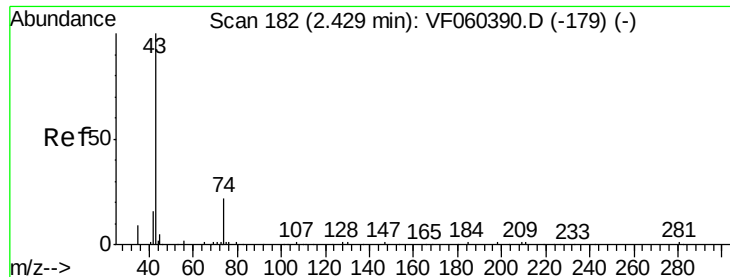
Tot Ion: 43 Resp: 1144772
Ion Ratio Lower Upper
43 100
58 17.1 11.2 16.8#



#17
Carbon Disulfide
Concen: 1.785 ug/l
RT: 1.88 min Scan# 126
Delta R.T. -0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 76 Resp: 10792
Ion Ratio Lower Upper
76 100
78 7.8 10.1 15.1#

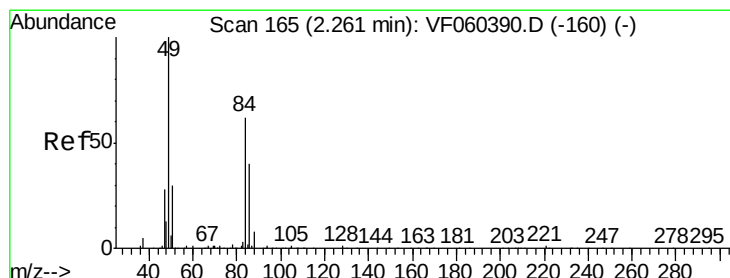
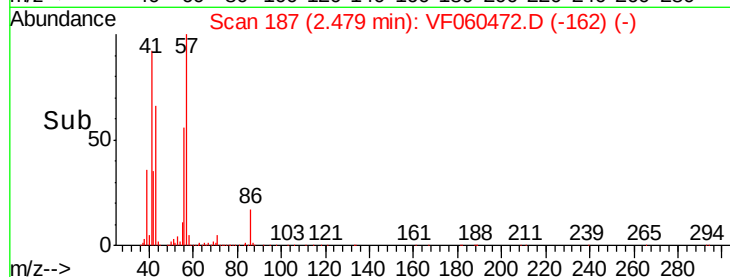
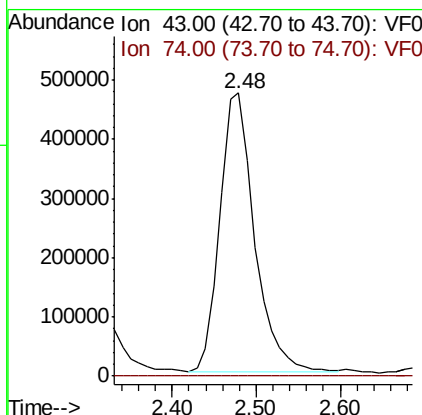
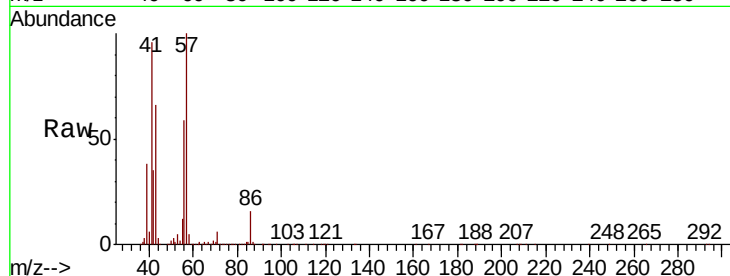




#18
Methyl Acetate
Concen: 1429.981 ug/l
RT: 2.48 min Scan# 187
Delta R.T. 0.05 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

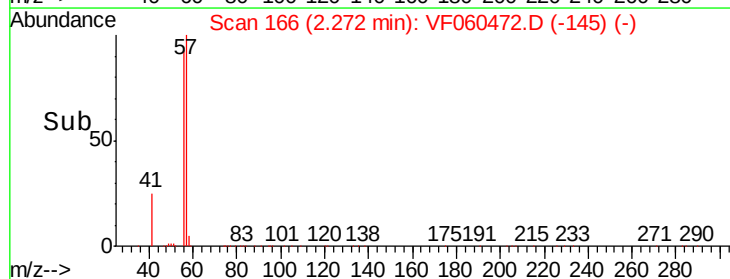
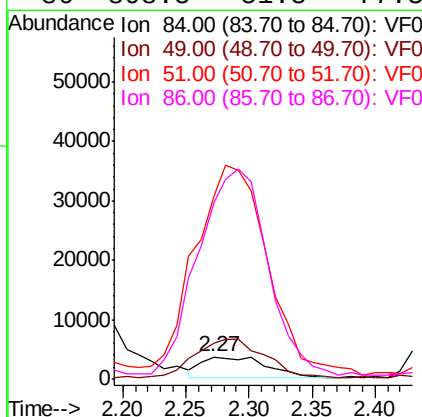
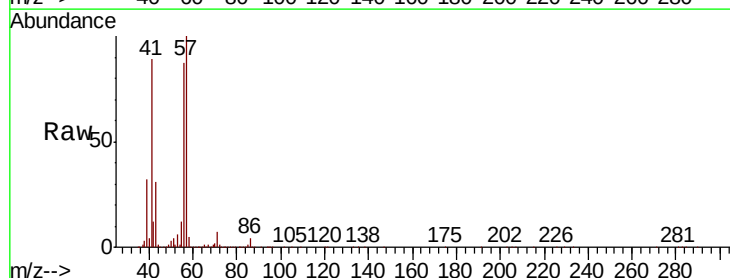
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

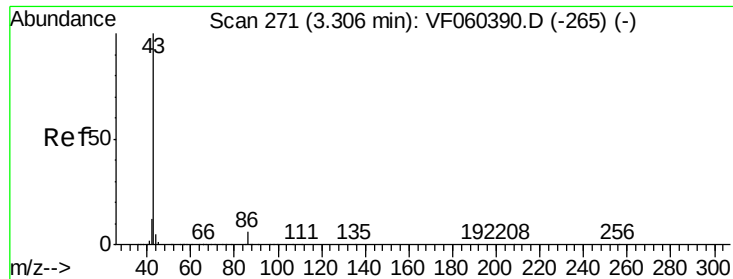
Tot Ion: 43 Resp: 1336734
Ion Ratio Lower Upper
43 100
74 0.2 15.8 23.8#



#20
Methylene Chloride
Concen: 1.031 ug/l
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 84 Resp: 12192
Ion Ratio Lower Upper
84 100
49 167.2 130.2 195.2
51 842.8 41.0 61.6#
86 808.5 51.5 77.3#





#23

Vinyl Acetate

Concen: 53.240 ug/l

RT: 3.28 min Scan# 268

Delta R.T. -0.03 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

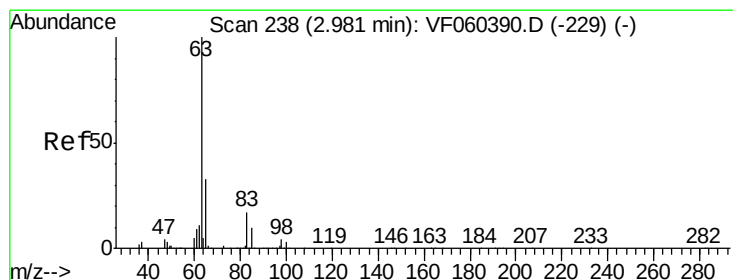
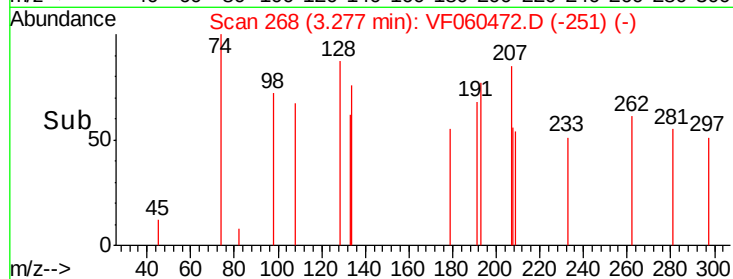
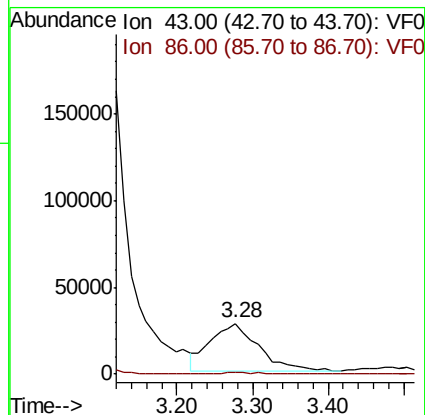
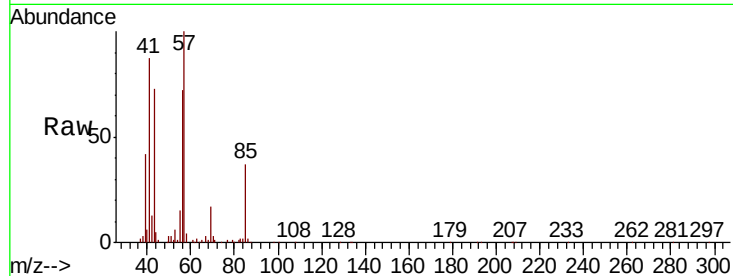
B-4(14.5-15)

Tot Ion: 43 Resp: 122810

Ion Ratio Lower Upper

43 100

86 3.2 5.1 7.7#



#24

1,1-Dichloroethane

Concen: 1.919 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.04 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

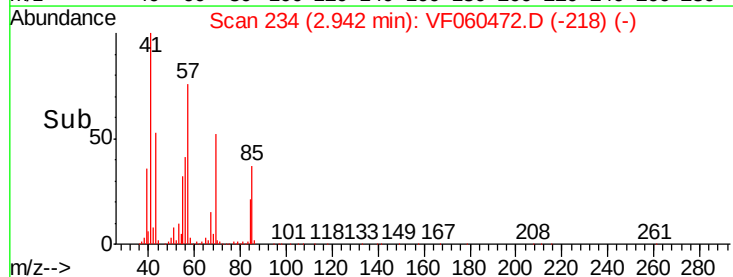
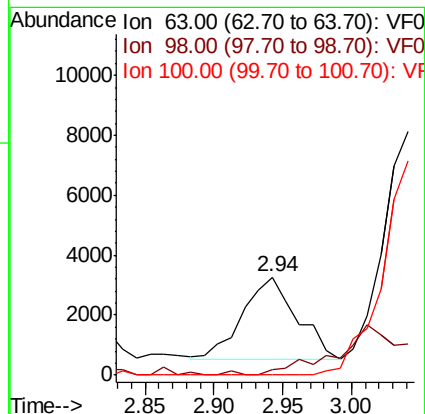
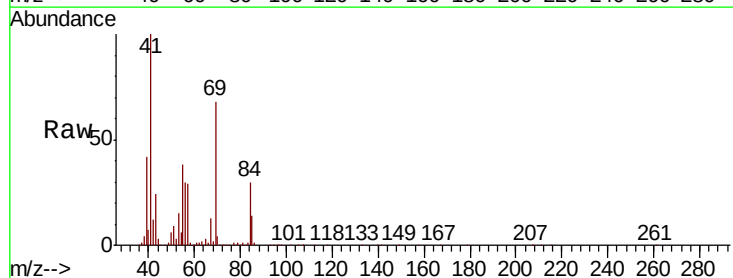
Tgt Ion: 63 Resp: 7535

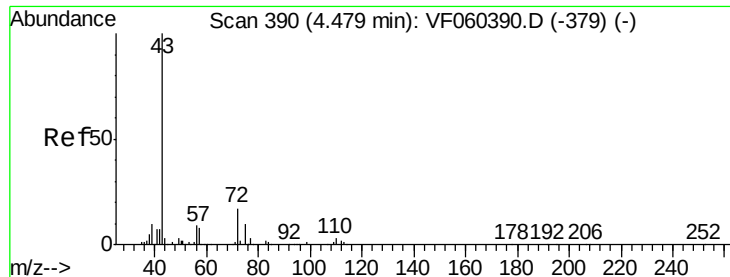
Ion Ratio Lower Upper

63 100

98 5.8 2.0 5.8

100 0.0 1.4 4.2#





#25

2-Butanone

Concen: 1402.197 ug/l

RT: 4.53 min Scan# 395

Delta R.T. 0.05 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

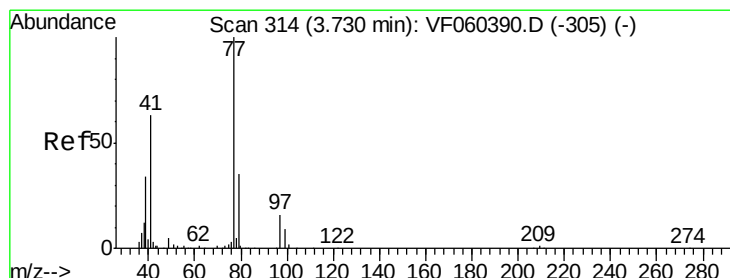
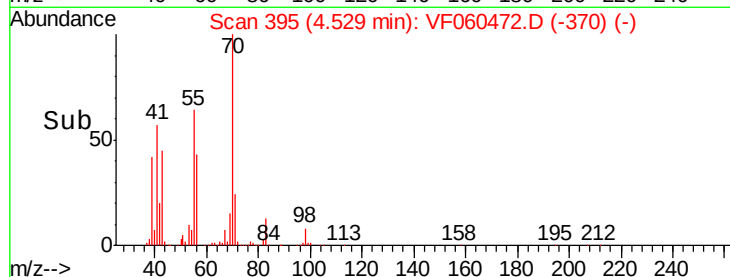
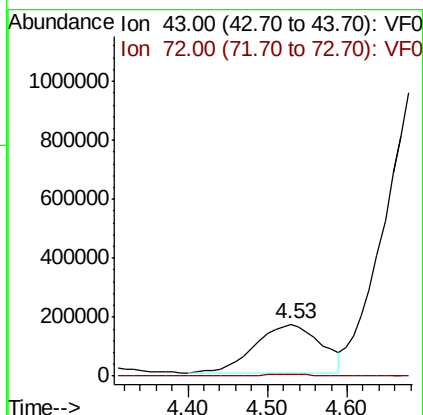
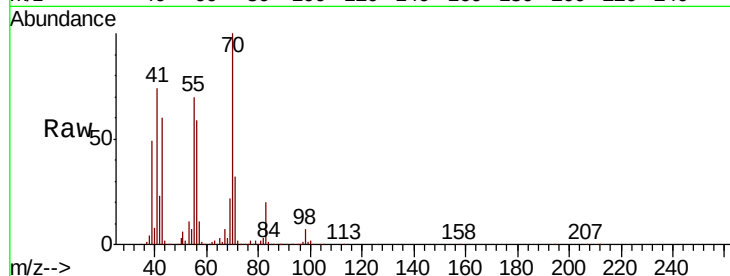
B-4(14.5-15)

Tot Ion: 43 Resp: 935145

Ion Ratio Lower Upper

43 100

72 3.1 14.1 21.1#



#26

2,2-Dichloropropane

Concen: 11.681 ug/l

RT: 3.67 min Scan# 308

Delta R.T. -0.06 min

Lab File: VF060472.D

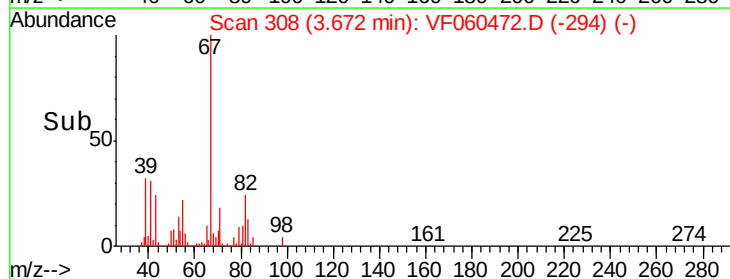
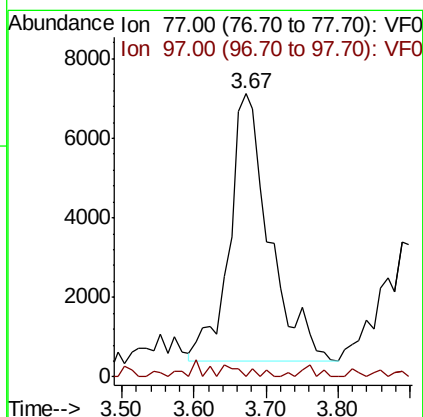
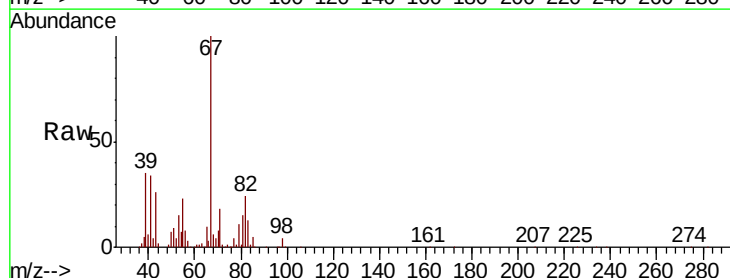
Acq: 5 Oct 2018 23:19

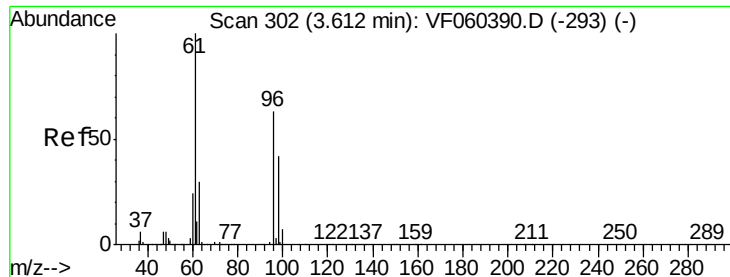
Tgt Ion: 77 Resp: 25980

Ion Ratio Lower Upper

77 100

97 0.0 8.3 25.1#





#27

cis-1,2-Dichloroethene

Concen: 1.196 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.02 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

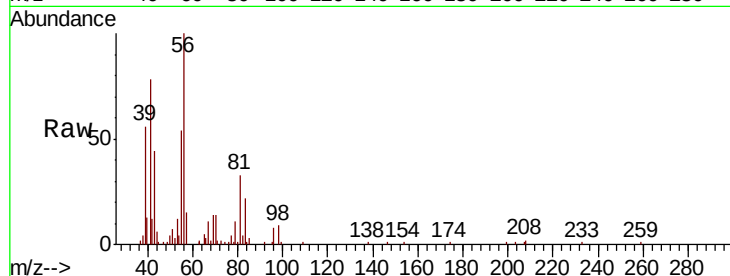
Tot Ion: 96 Resp: 2667

Ion Ratio Lower Upper

96 100

61 0.0 0.0 318.2

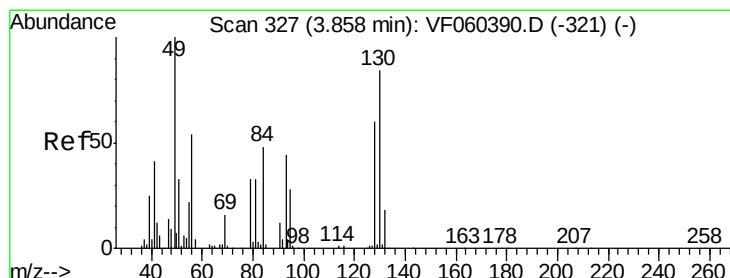
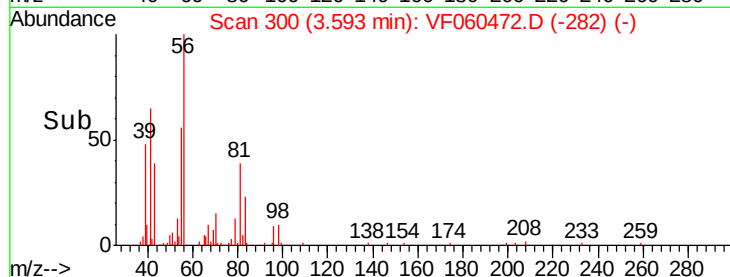
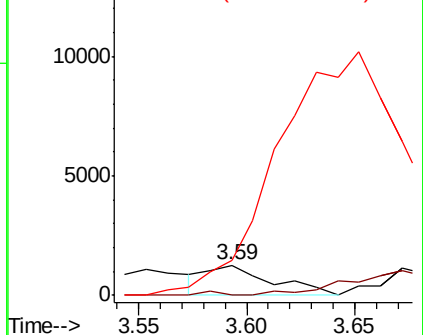
98 113.5 0.0 134.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane

Concen: 6.080 ug/l

RT: 3.93 min Scan# 334

Delta R.T. 0.07 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

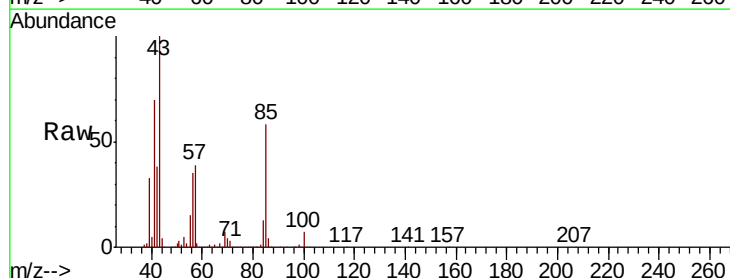
Tgt Ion: 49 Resp: 8799

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

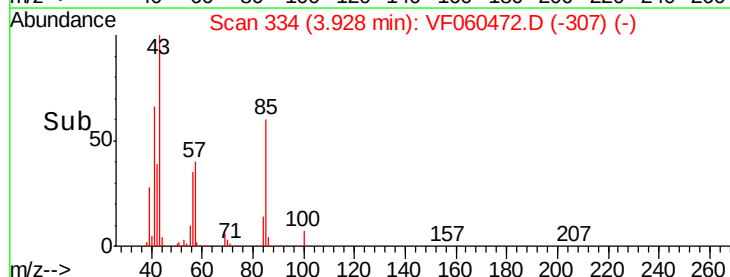
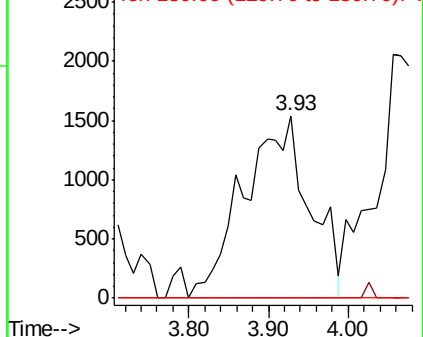
130 0.0 67.3 100.9#

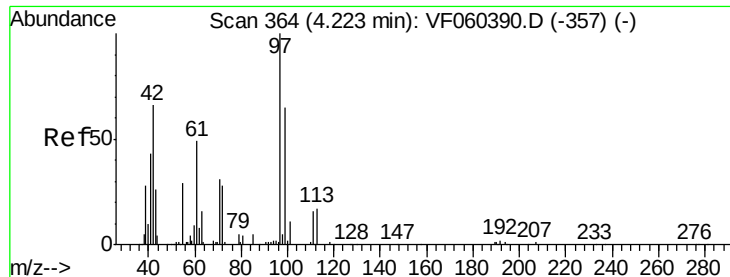


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 3285.097 ug/l

RT: 4.19 min Scan# 361

Delta R.T. -0.03 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

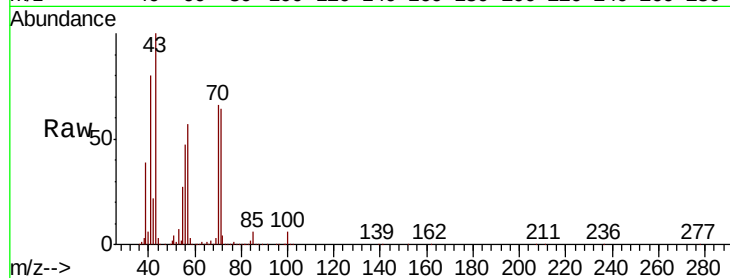
Tot Ion: 42 Resp: 811325

Ion Ratio Lower Upper

42 100

72 17.2 33.6 50.4#

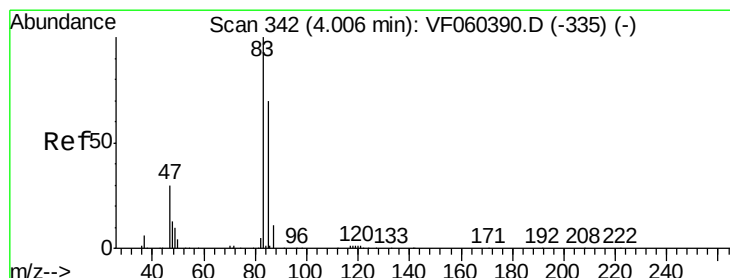
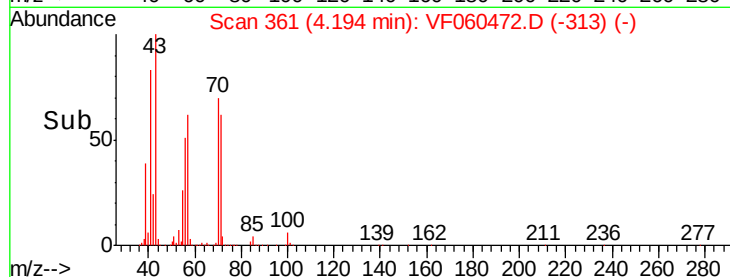
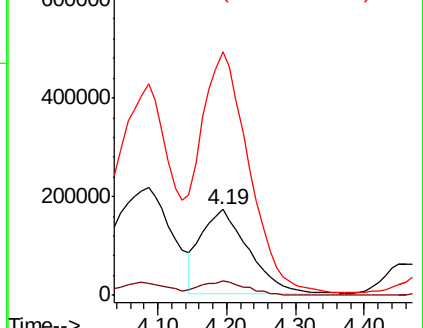
71 302.0 32.7 49.1#



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



#30

Chloroform

Concen: 6.420 ug/l

RT: 4.09 min Scan# 350

Delta R.T. 0.08 min

Lab File: VF060472.D

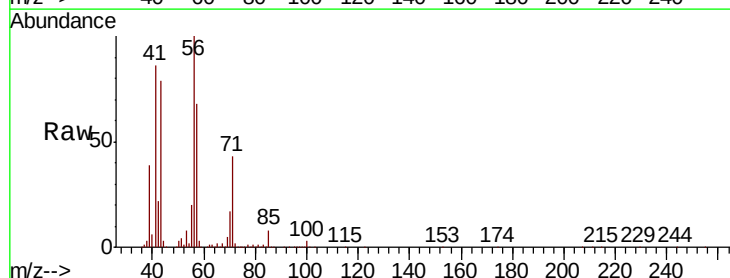
Acq: 5 Oct 2018 23:19

Tgt Ion: 83 Resp: 31108

Ion Ratio Lower Upper

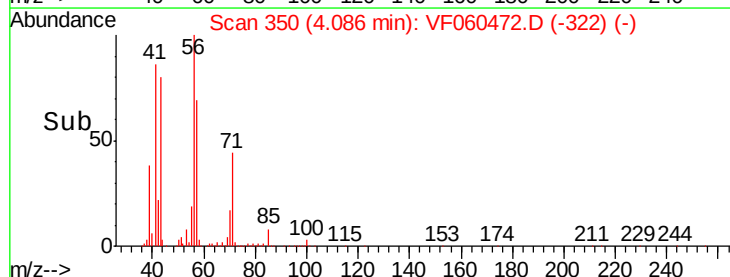
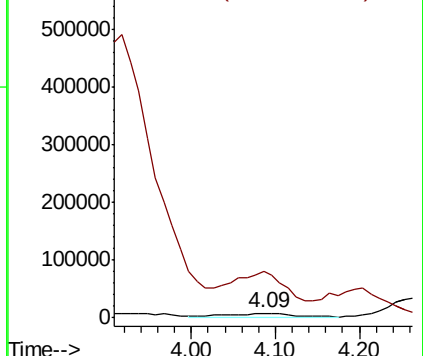
83 100

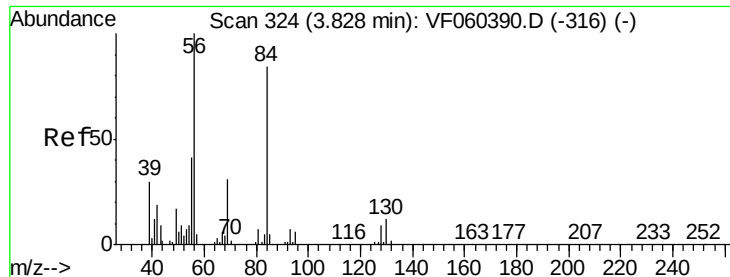
85 1073.0 55.9 83.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 599.184 ug/l

RT: 3.91 min Scan# 332

Delta R.T. 0.08 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

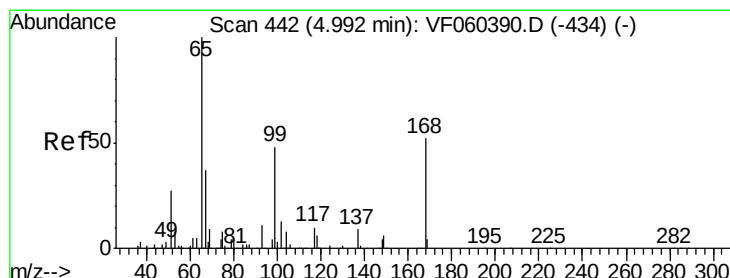
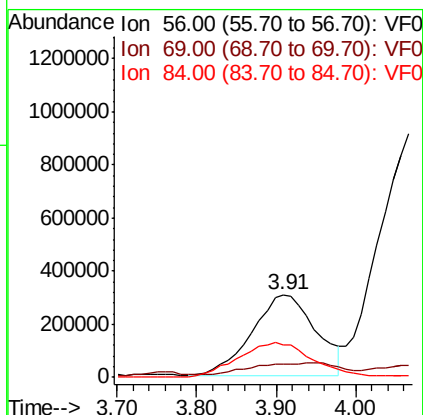
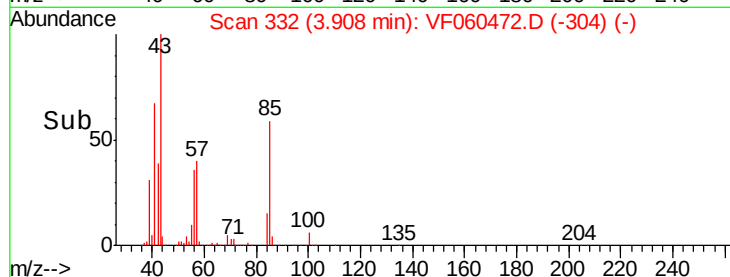
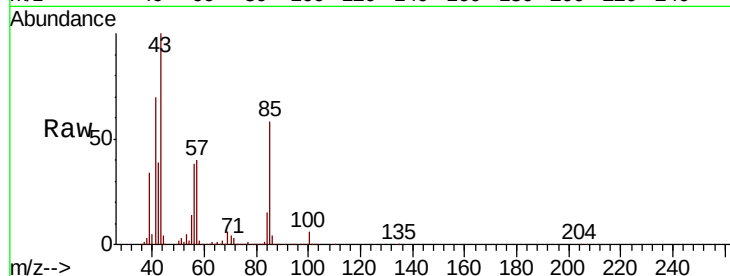
Tot Ion: 56 Resp: 1689580

Ion Ratio Lower Upper

56 100

69 15.7 25.5 38.3#

84 39.9 67.4 101.0#



#33

1,2-Dichloroethane-d4

Concen: 35.835 ug/l

RT: 5.00 min Scan# 443

Delta R.T. 0.01 min

Lab File: VF060472.D

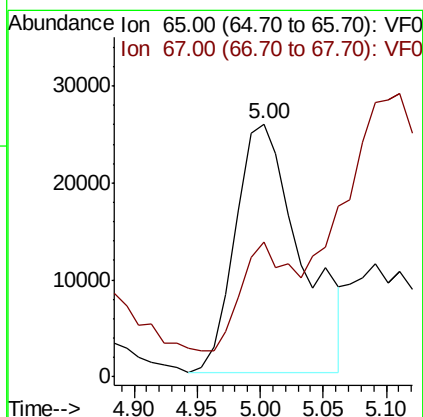
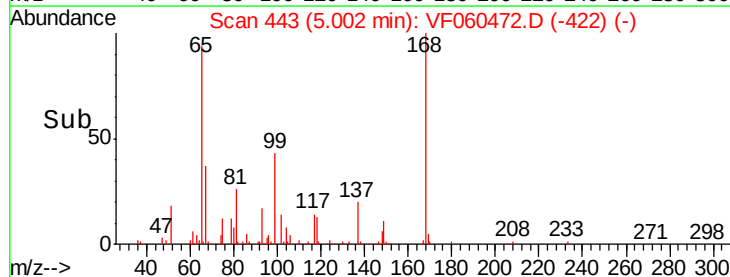
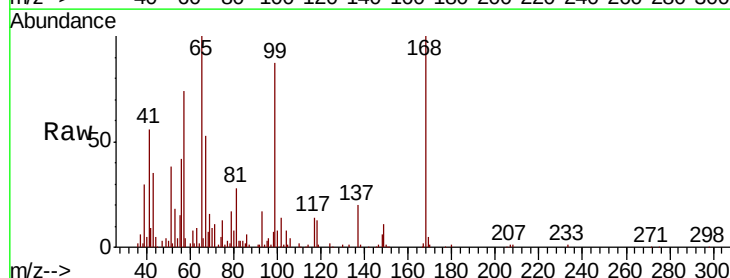
Acq: 5 Oct 2018 23:19

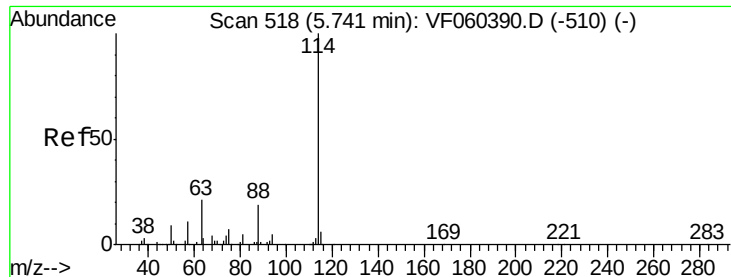
Tgt Ion: 65 Resp: 92297

Ion Ratio Lower Upper

65 100

67 53.3 0.0 89.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. 0.01 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

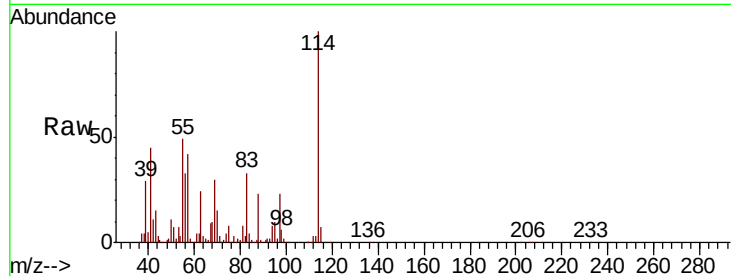
Tot Ion:114 Resp: 230201

Ion Ratio Lower Upper

114 100

63 24.5 0.0 42.2

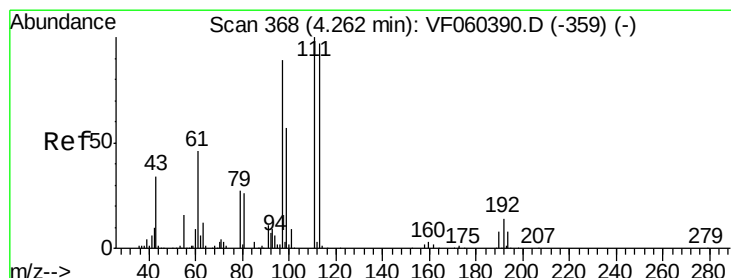
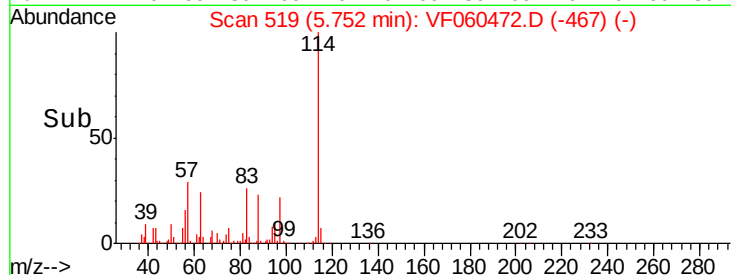
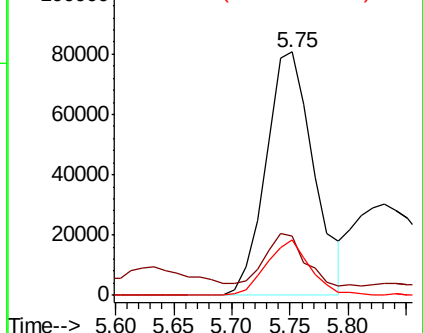
88 22.8 0.0 38.8



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: 33.750 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

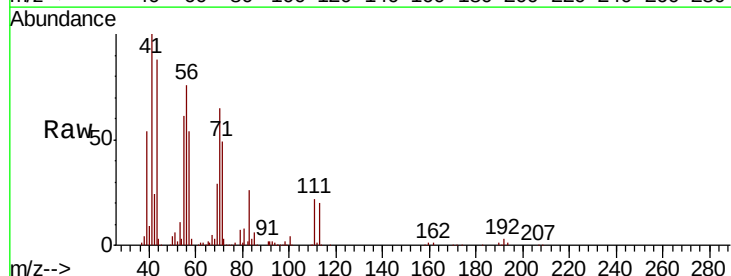
Tgt Ion:113 Resp: 72987

Ion Ratio Lower Upper

113 100

111 107.1 82.3 123.5

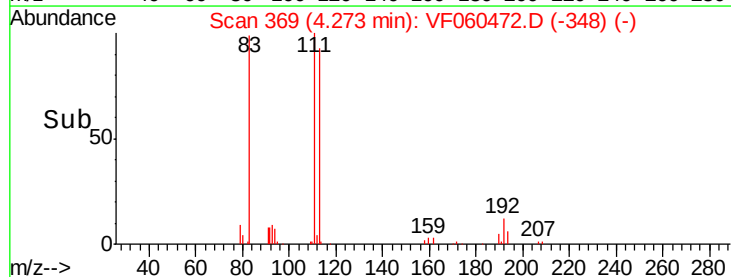
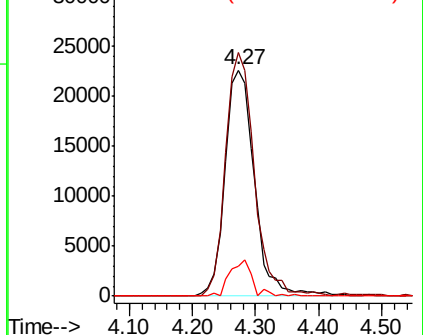
192 13.1 11.8 17.6

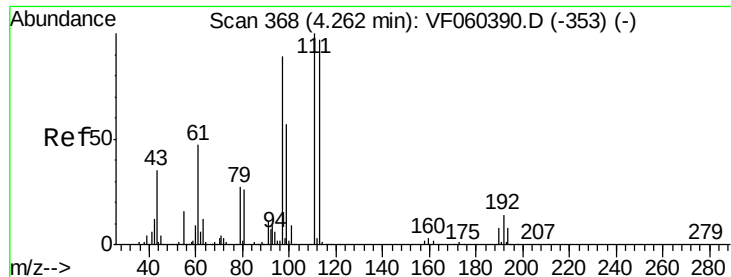


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

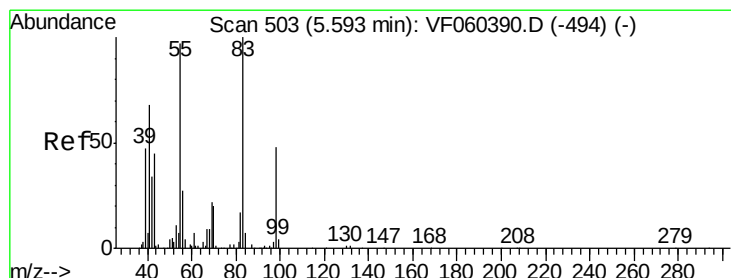
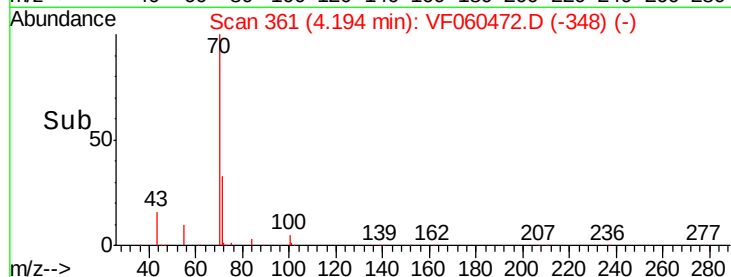
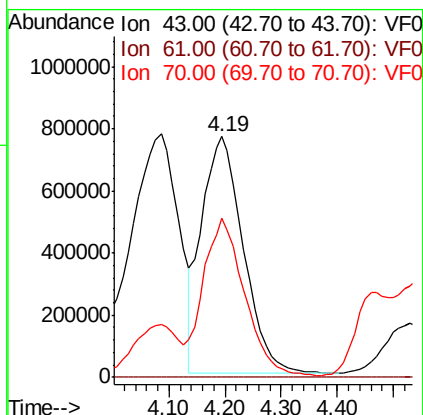
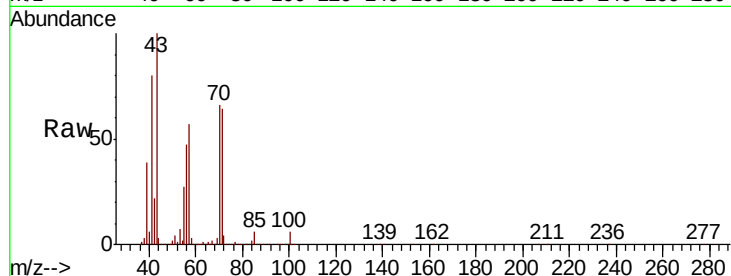




#37
Ethyl Acetate
Concen: 3633.478 ug/l
RT: 4.19 min Scan# 361
Delta R.T. -0.07 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

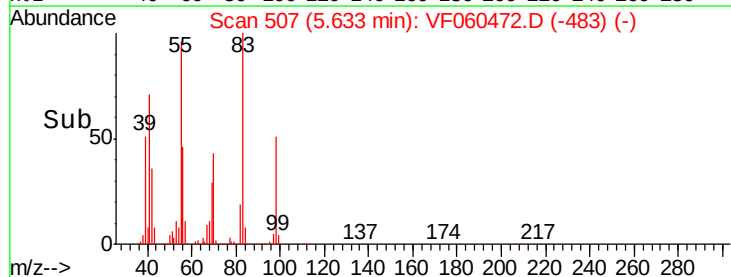
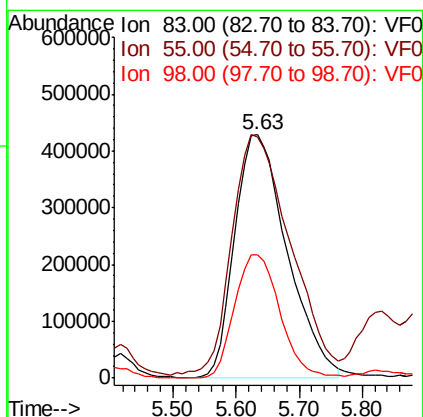
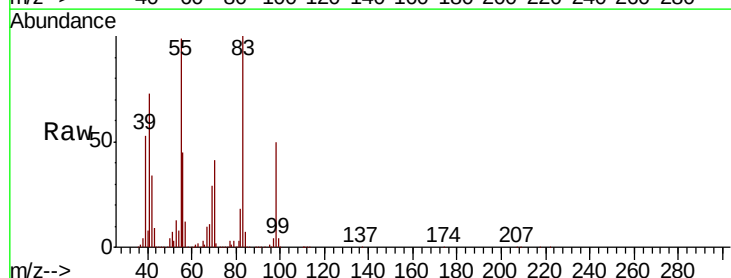
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

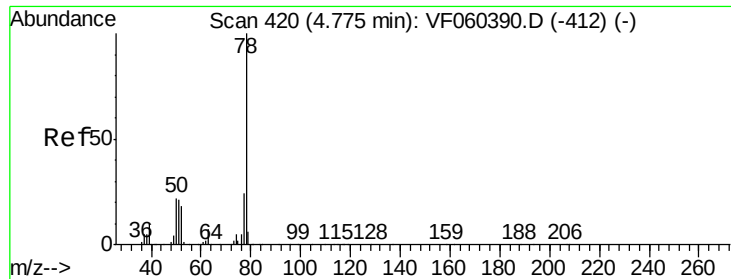
Tot Ion: 43 Resp: 3949078
Ion Ratio Lower Upper
43 100
61 0.2 105.1 157.7#
70 66.0 8.0 12.0#



#39
Methylcyclohexane
Concen: 887.189 ug/l
RT: 5.63 min Scan# 507
Delta R.T. 0.04 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 83 Resp: 2468529
Ion Ratio Lower Upper
83 100
55 98.9 77.5 116.3
98 50.5 38.7 58.1





#40

Benzene

Concen: 3.168 ug/l

RT: 4.81 min Scan# 423

Delta R.T. 0.03 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

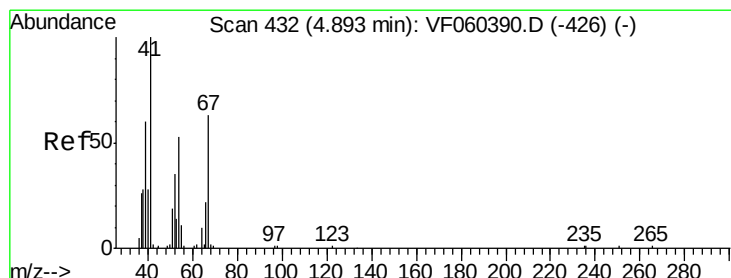
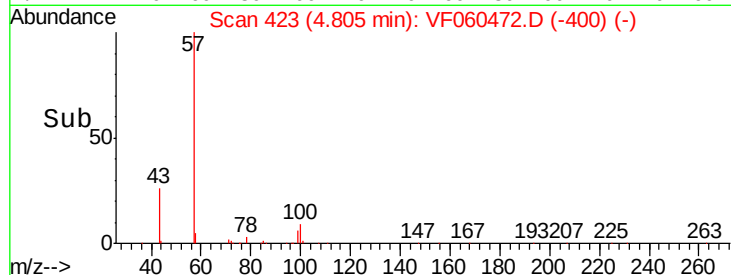
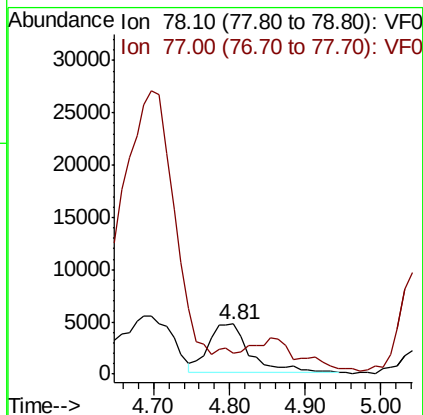
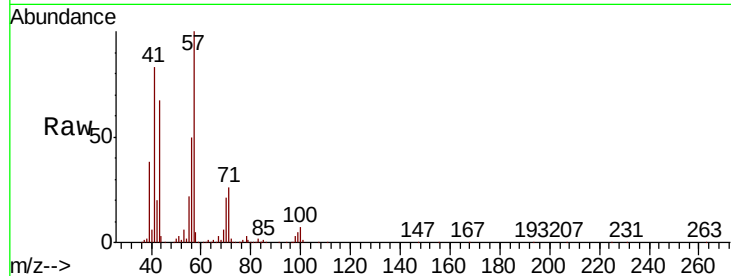
B-4(14.5-15)

Tot Ion: 78 Resp: 17848

Ion Ratio Lower Upper

78 100

77 41.4 19.2 28.8#



#41

Methacrylonitrile

Concen: 3493.758 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.05 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Tgt Ion: 41 Resp: 2013368

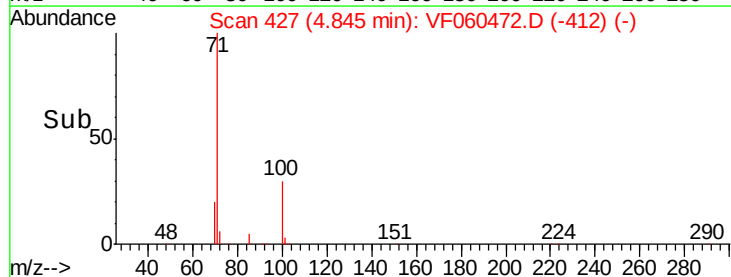
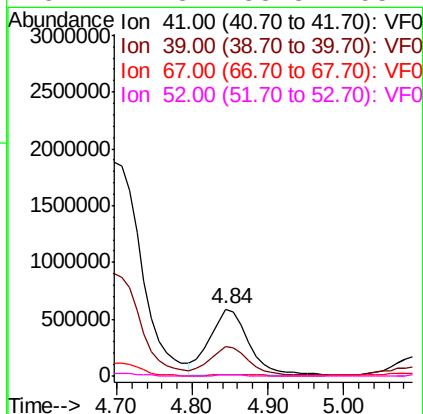
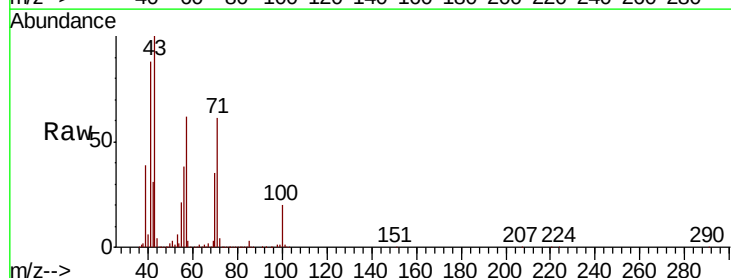
Ion Ratio Lower Upper

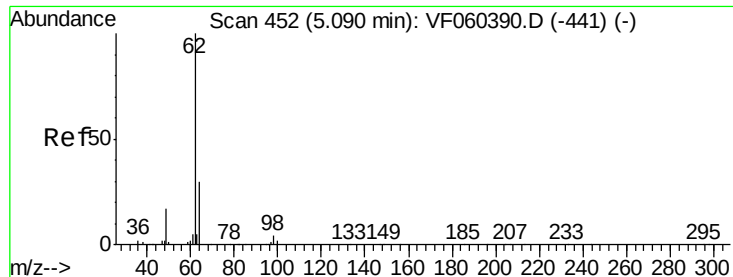
41 100

39 44.3 55.0 82.4#

67 1.8 49.6 74.4#

52 1.3 38.8 58.2#

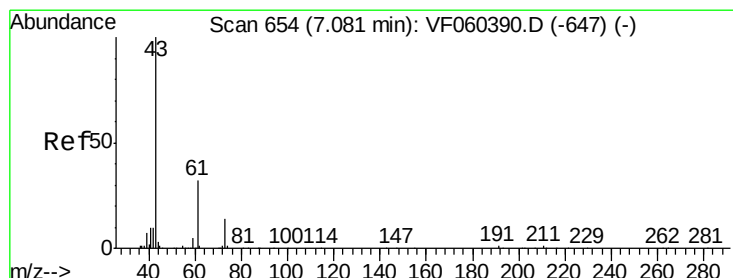
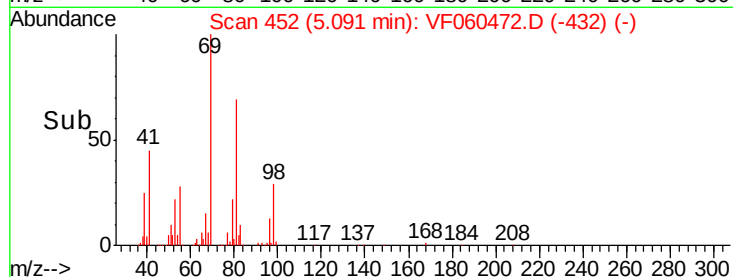
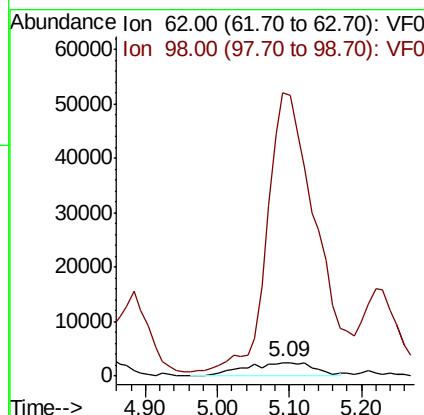
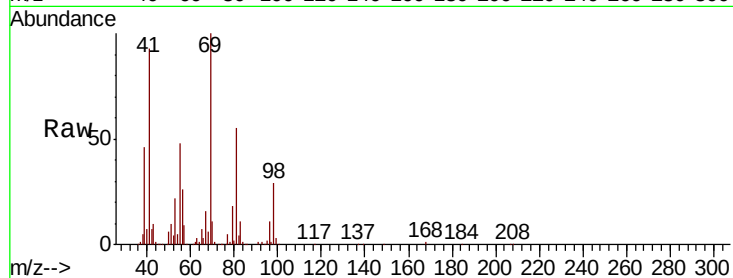




#42
 1,2-Dichloroethane
 Concen: 6.225 ug/l
 RT: 5.09 min Scan# 452
 Delta R.T. 0.00 min
 Lab File: VF060472.D
 Acq: 5 Oct 2018 23:19

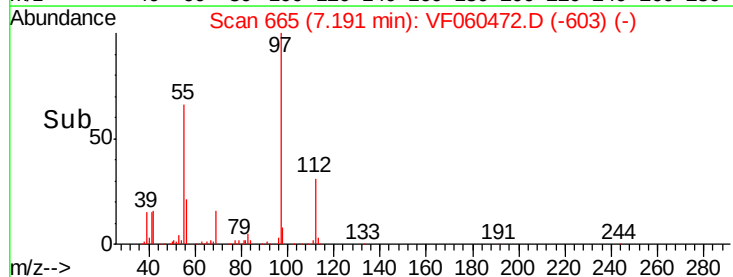
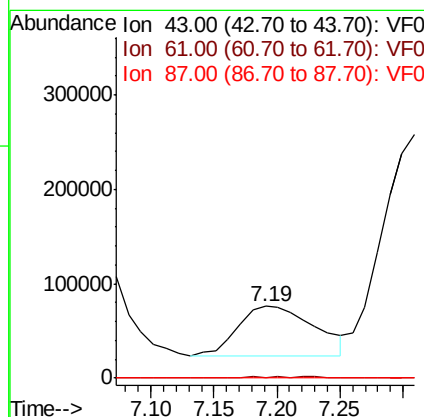
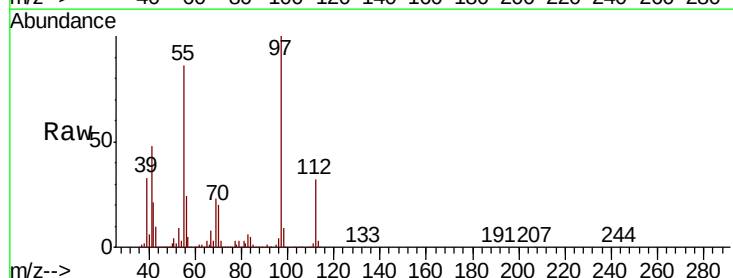
Instrument :
 MSVOA_F
 ClientSampled :
 B-4(14.5-15)

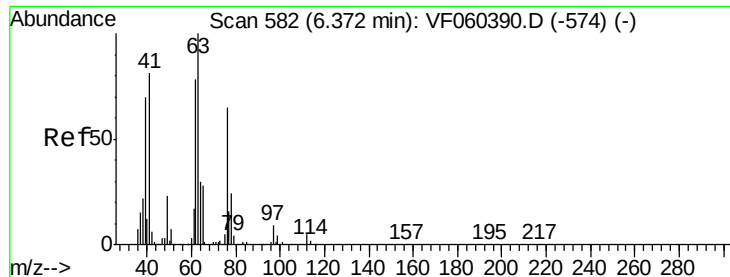
Tot Ion: 62 Resp: 16733
 Ion Ratio Lower Upper
 62 100
 98 2075.4 0.0 11.2#



#43
 Isopropyl Acetate
 Concen: 166.200 ug/l
 RT: 7.19 min Scan# 665
 Delta R.T. 0.11 min
 Lab File: VF060472.D
 Acq: 5 Oct 2018 23:19

Tgt Ion: 43 Resp: 218294
 Ion Ratio Lower Upper
 43 100
 61 1.4 25.4 38.2#
 87 0.2 0.3 0.5#





#45

1,2-Dichloropropane

Concen: 46.690 ug/l

RT: 6.46 min Scan# 591

Delta R.T. 0.09 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

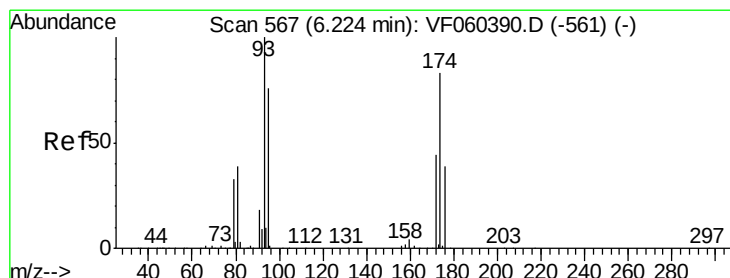
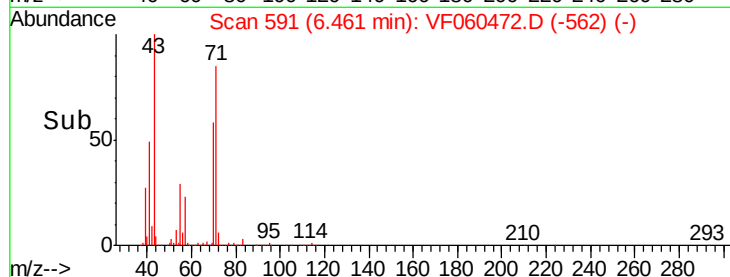
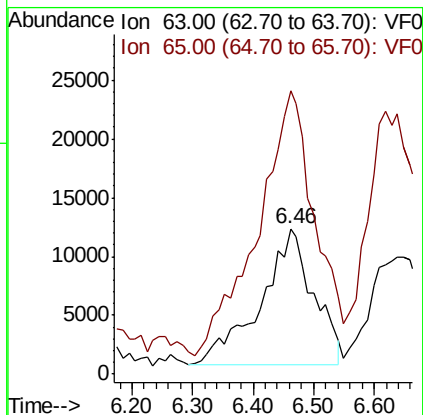
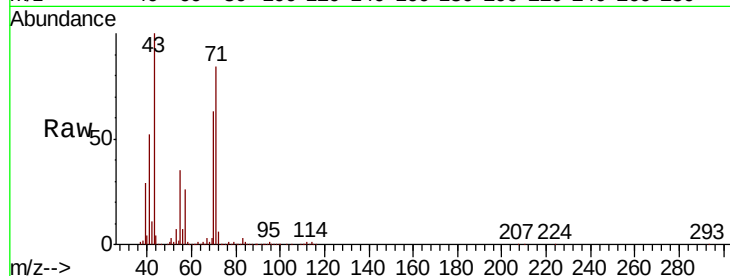
B-4(14.5-15)

Tot Ion: 63 Resp: 70058

Ion Ratio Lower Upper

63 100

65 194.2 22.7 34.1#



#46

Dibromomethane

Concen: 4.314 ug/l

RT: 6.14 min Scan# 558

Delta R.T. -0.09 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

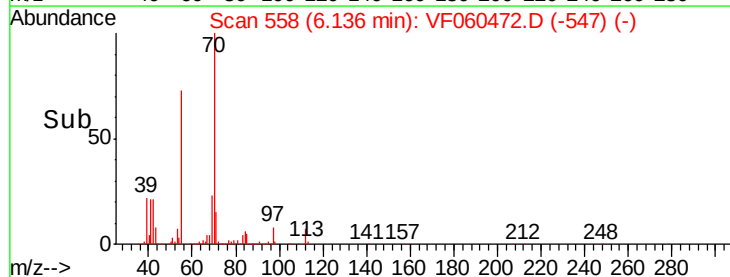
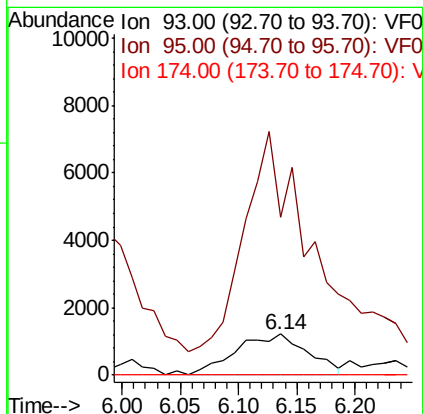
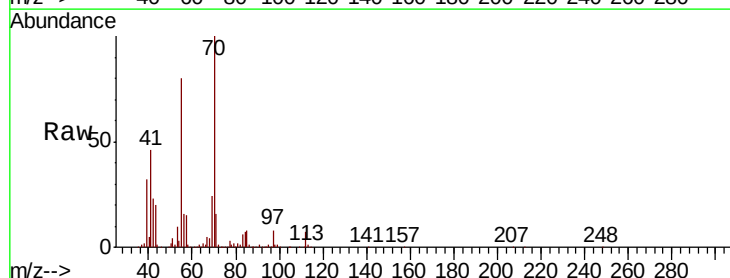
Tgt Ion: 93 Resp: 5205

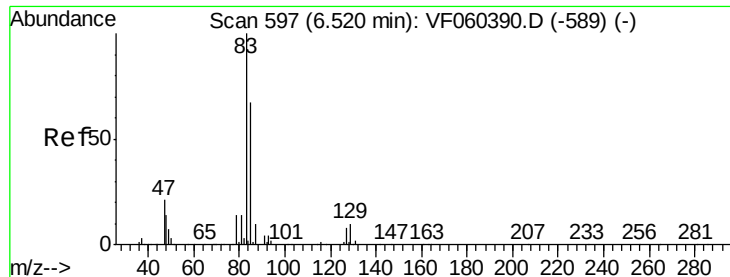
Ion Ratio Lower Upper

93 100

95 384.7 61.1 91.7#

174 0.0 66.7 100.1#





#47

Bromodichloromethane

Concen: 87.343 ug/l

RT: 6.47 min Scan# 592

Delta R.T. -0.05 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

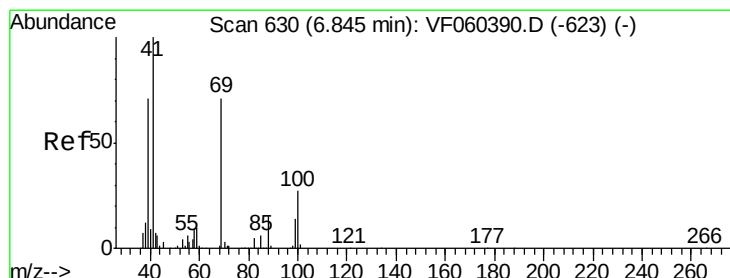
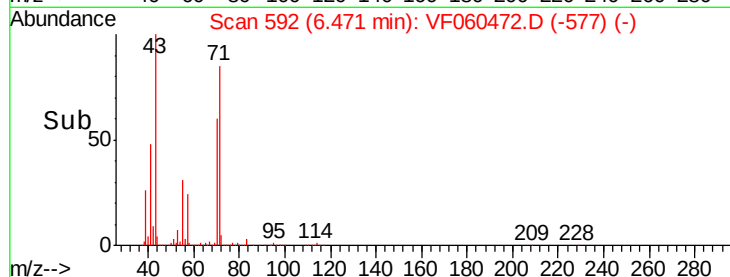
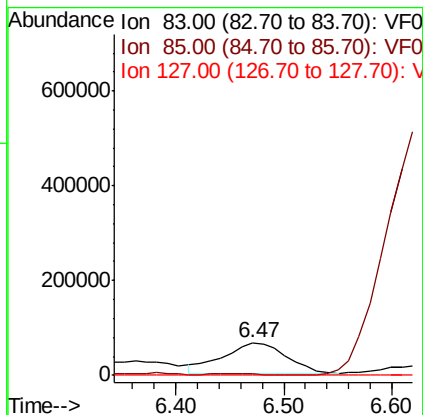
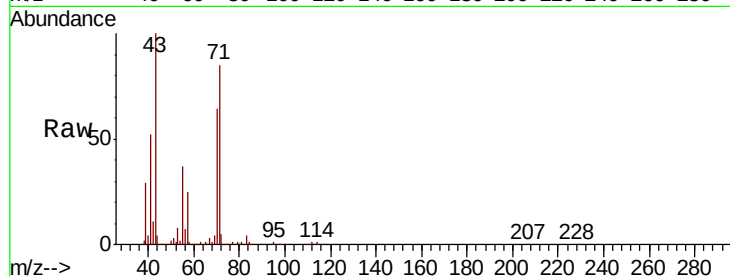
Tot Ion: 83 Resp: 260966

Ion Ratio Lower Upper

83 100

85 3.6 53.2 79.8#

127 0.0 6.6 9.8#



#48

Methyl methacrylate

Concen: 3718.060 ug/l

RT: 6.77 min Scan# 622

Delta R.T. -0.08 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

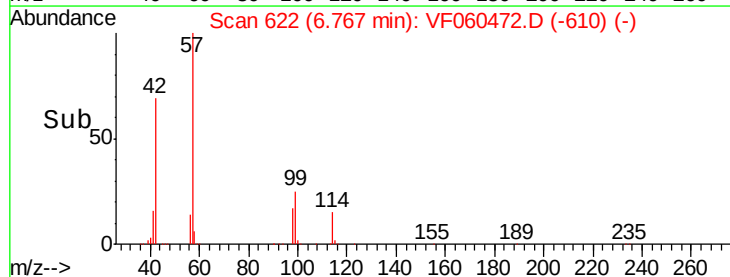
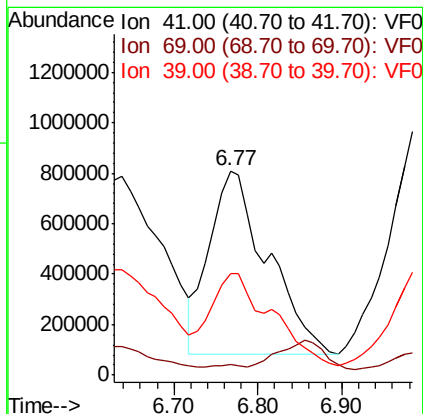
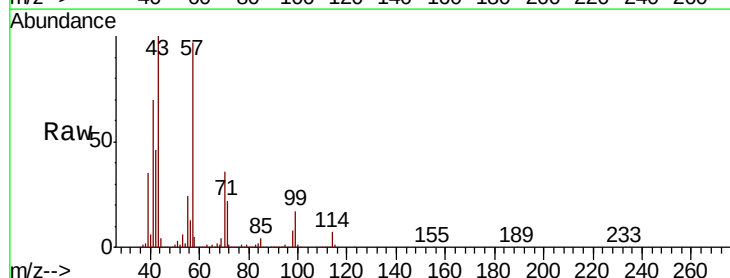
Tgt Ion: 41 Resp: 3505510

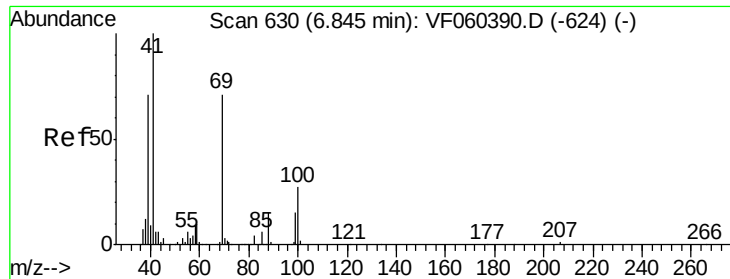
Ion Ratio Lower Upper

41 100

69 5.1 56.3 84.5#

39 49.9 56.9 85.3#





#49

1,4-Dioxane

Concen: 12.547 ug/l

RT: 6.83 min Scan# 628

Delta R.T. -0.02 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

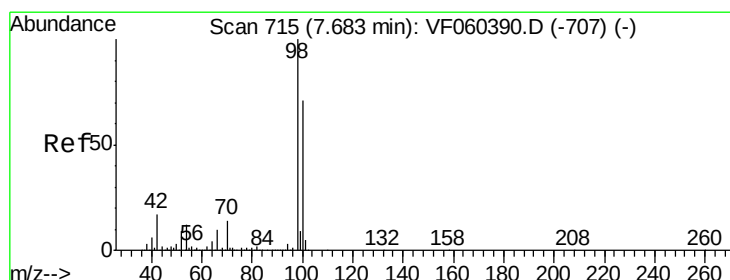
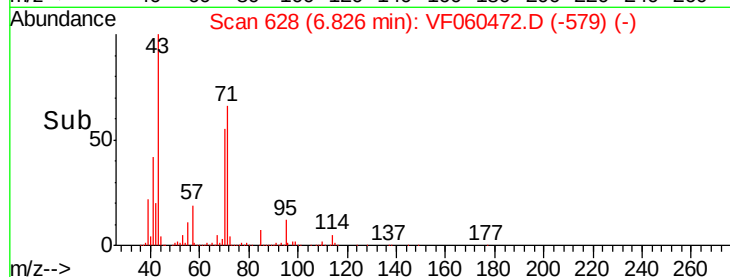
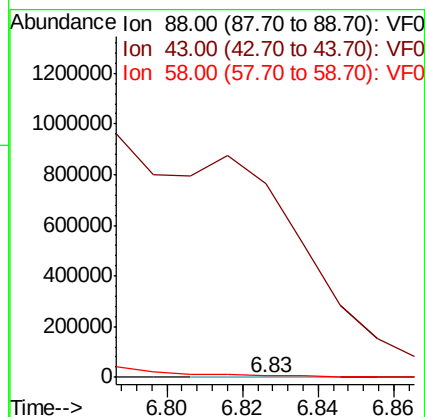
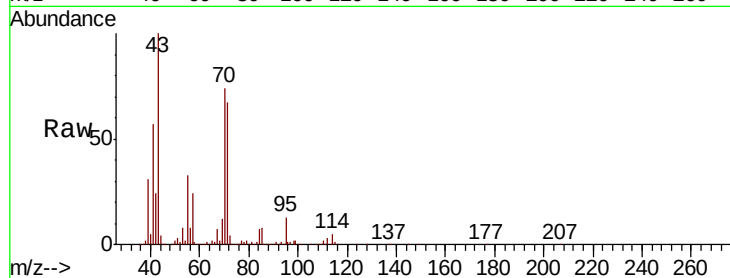
Tot Ion: 88 Resp: 102

Ion Ratio Lower Upper

88 100

43 440416.2 38.3 57.5#

58 4821.4 47.4 71.2#



#50

Toluene-d8

Concen: 51.979 ug/l

RT: 7.70 min Scan# 717

Delta R.T. 0.02 min

Lab File: VF060472.D

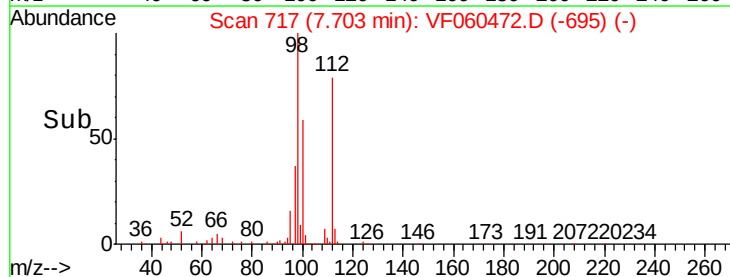
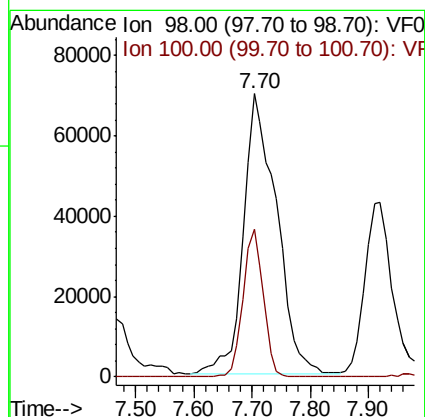
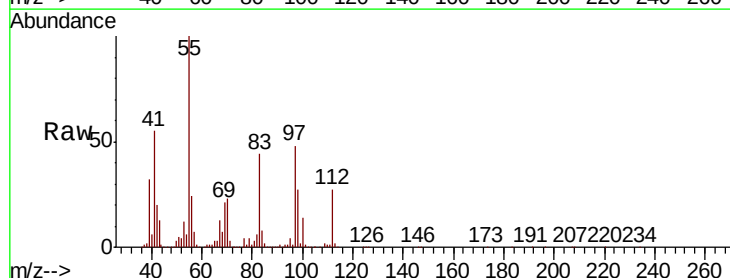
Acq: 5 Oct 2018 23:19

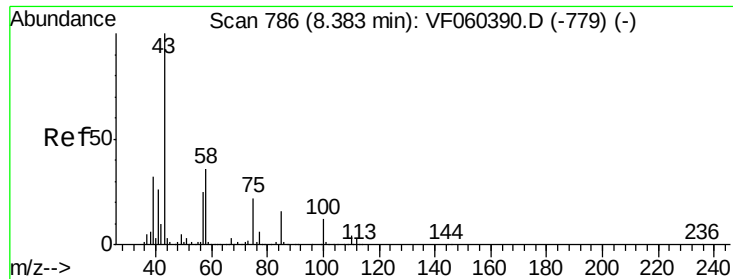
Tgt Ion: 98 Resp: 276844

Ion Ratio Lower Upper

98 100

100 52.1 56.5 84.7#

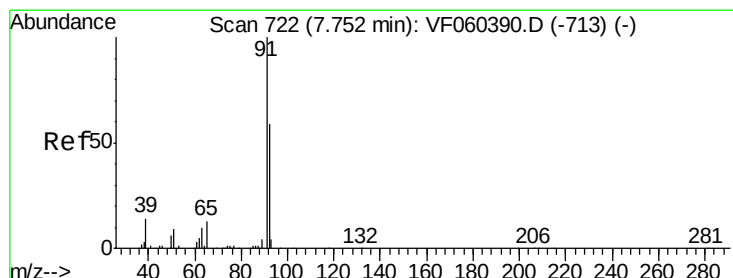
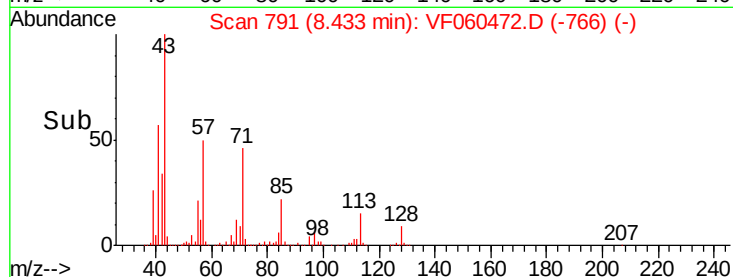
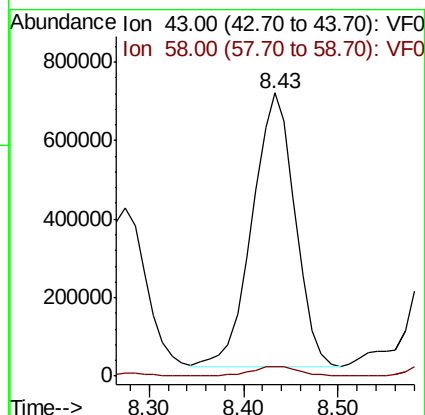
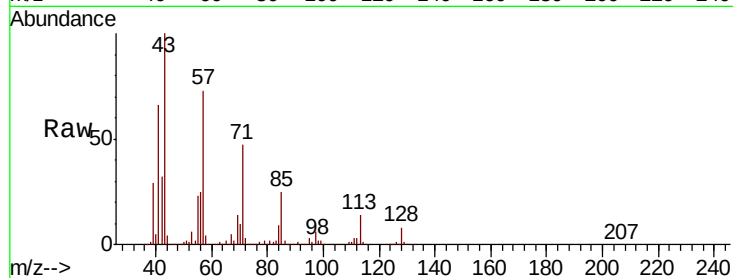




#51
4-Methyl-2-Pentanone
Concen: 2346.460 ug/l
RT: 8.43 min Scan# 791
Delta R.T. 0.05 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

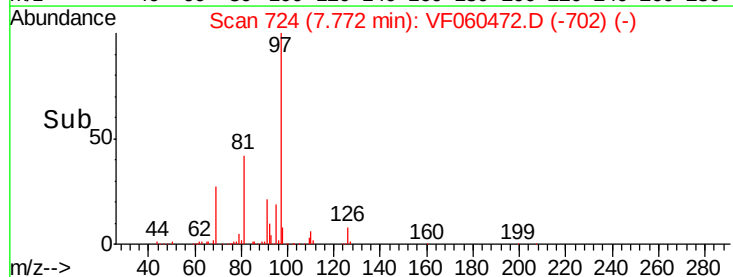
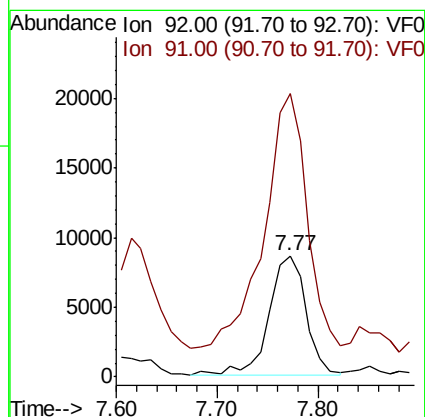
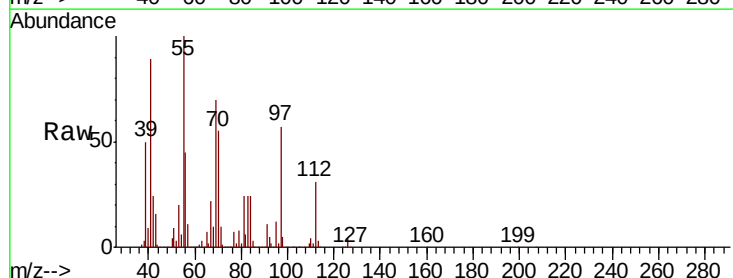
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

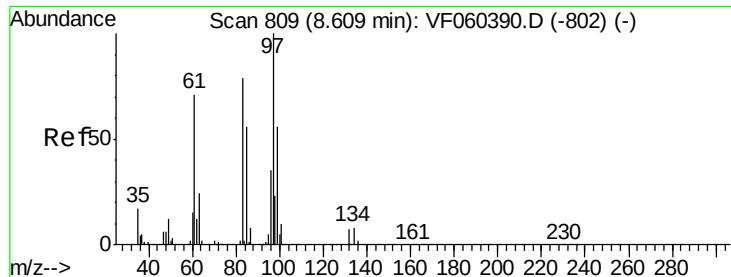
Tot Ion: 43 Resp: 2193864
Ion Ratio Lower Upper
43 100
58 3.5 28.5 42.7#



#52
Toluene
Concen: 5.784 ug/l
RT: 7.77 min Scan# 724
Delta R.T. 0.02 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 92 Resp: 22137
Ion Ratio Lower Upper
92 100
91 234.2 135.4 203.0#





#55

1,1,2-Trichloroethane

Concen: 444.478 ug/l

RT: 8.54 min Scan# 802

Delta R.T. -0.07 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampled :

B-4(14.5-15)

Tot Ion: 97 Resp: 539172

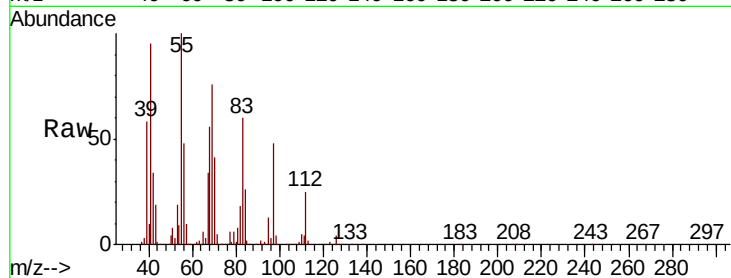
Ion Ratio Lower Upper

97 100

83 125.1 63.4 95.0#

85 4.3 44.5 66.7#

99 0.3 45.1 67.7#

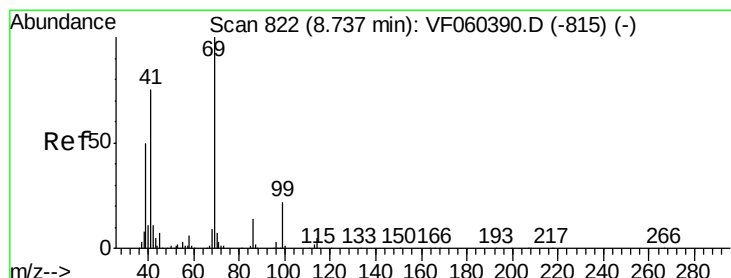
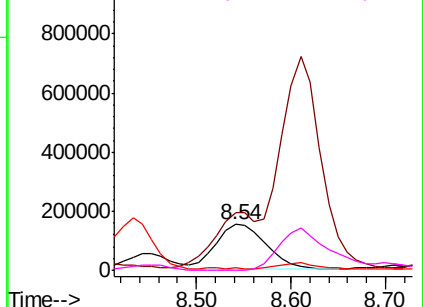
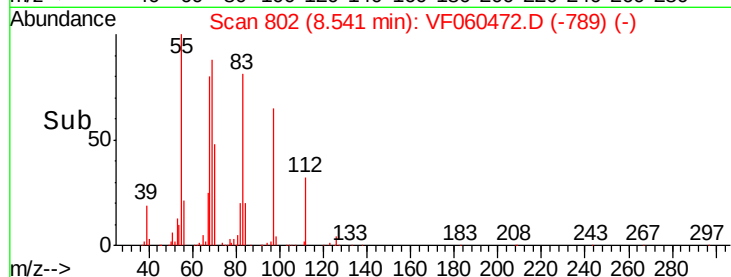


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 2135.137 ug/l

RT: 8.78 min Scan# 826

Delta R.T. 0.04 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

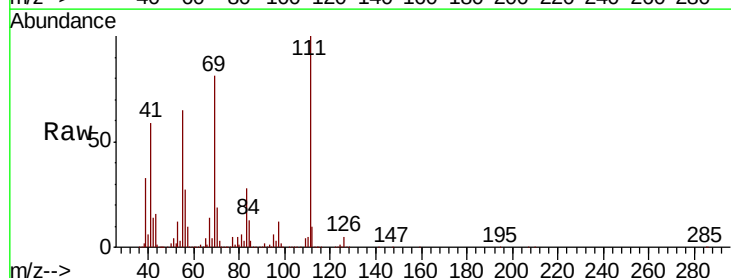
Tgt Ion: 69 Resp: 2943105

Ion Ratio Lower Upper

69 100

41 72.7 60.2 90.4

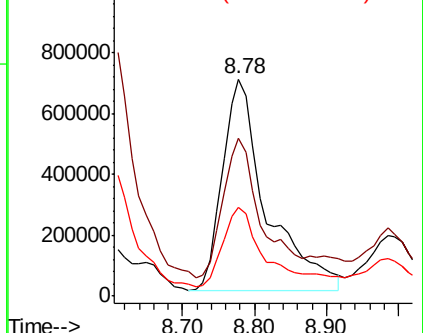
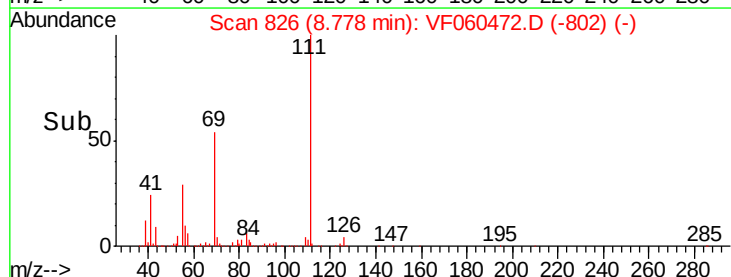
39 41.1 40.2 60.2

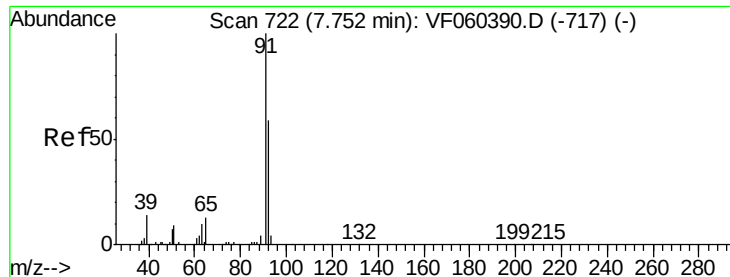


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

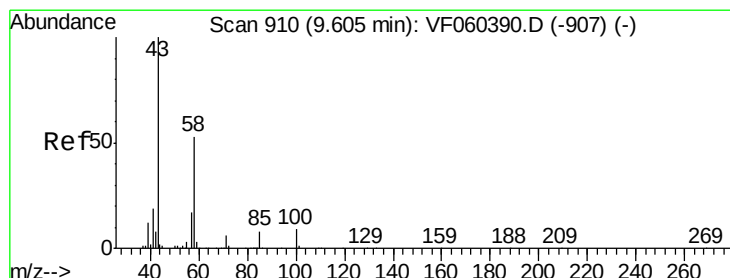
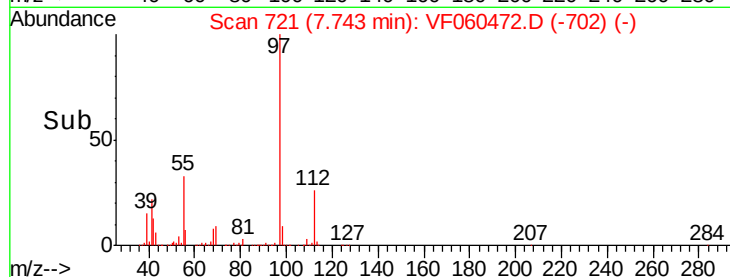
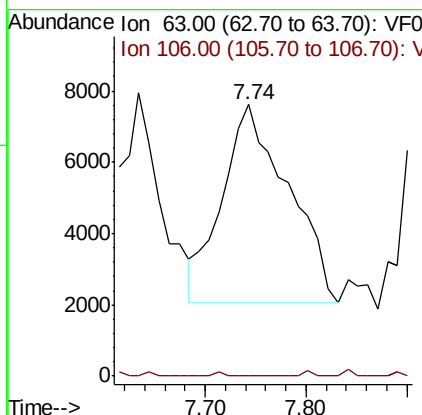
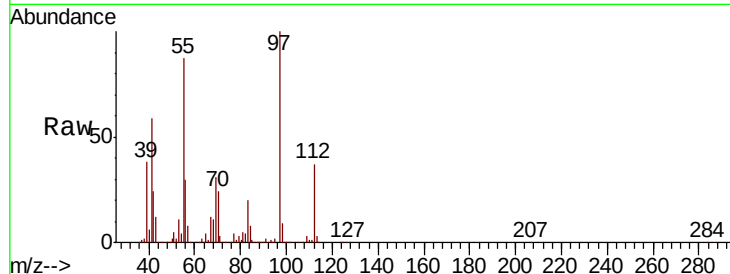




#58
2-Chloroethyl Vinyl ether
Concen: 179.185 ug/l
RT: 7.74 min Scan# 721
Delta R.T. -0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

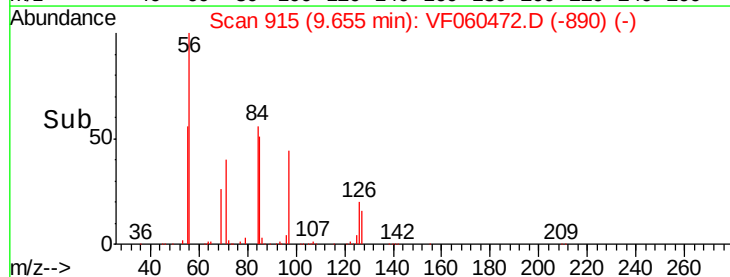
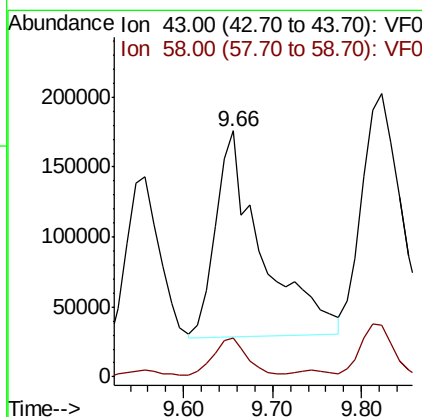
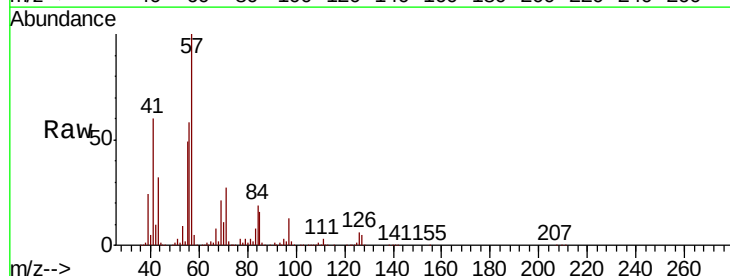
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

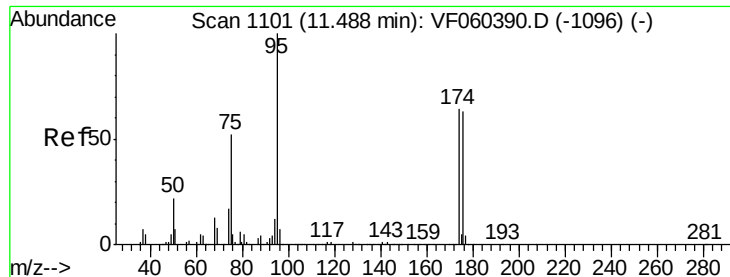
Tot Ion: 63 Resp: 25229
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: 777.292 ug/l
RT: 9.66 min Scan# 915
Delta R.T. 0.05 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 43 Resp: 533056
Ion Ratio Lower Upper
43 100
58 15.8 25.6 76.6#





#62

4-Bromofluorobenzene

Concen: 120.714 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

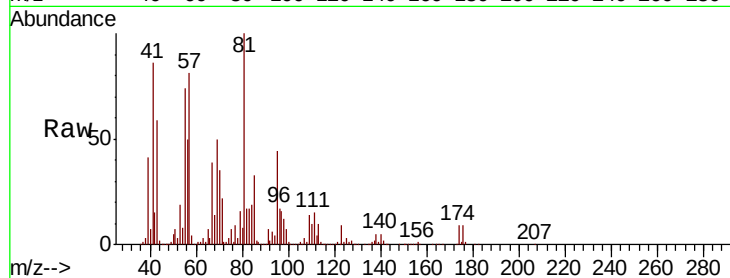
Tot Ion: 95 Resp: 293559

Ion Ratio Lower Upper

95 100

174 20.2 0.0 129.0

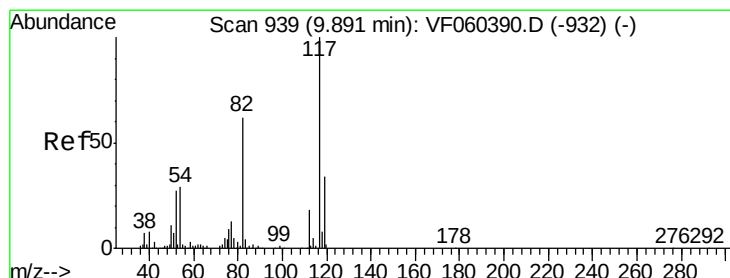
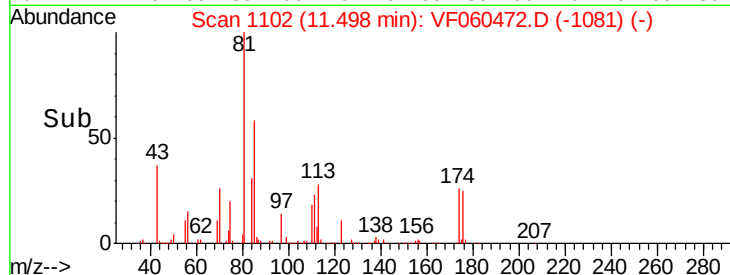
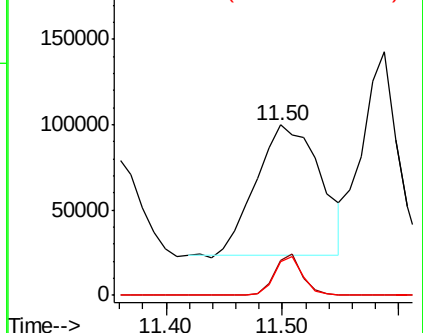
176 19.9 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.02 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

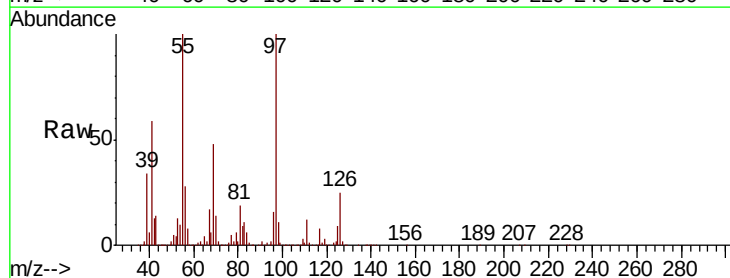
Tgt Ion: 117 Resp: 136412

Ion Ratio Lower Upper

117 100

82 111.3 49.5 74.3#

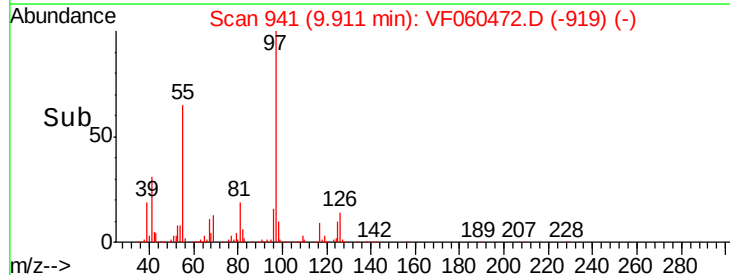
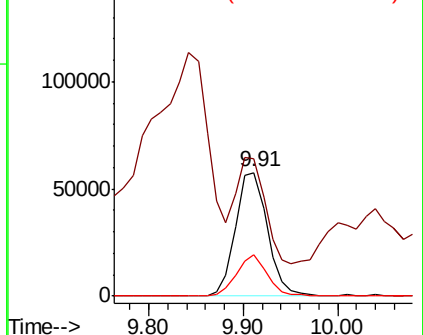
119 33.5 27.0 40.6

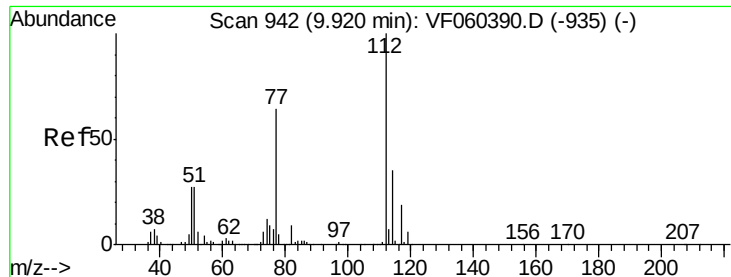


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

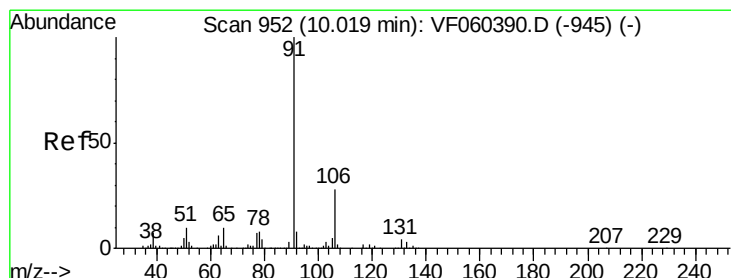
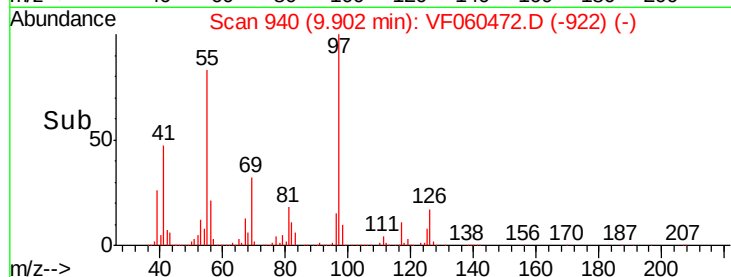
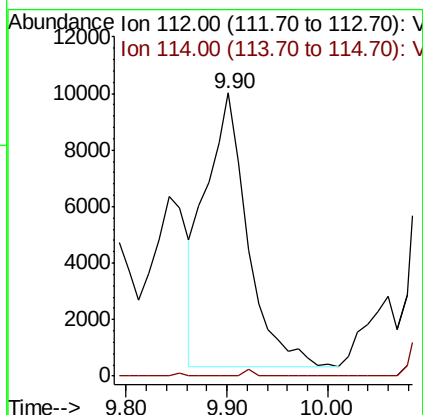
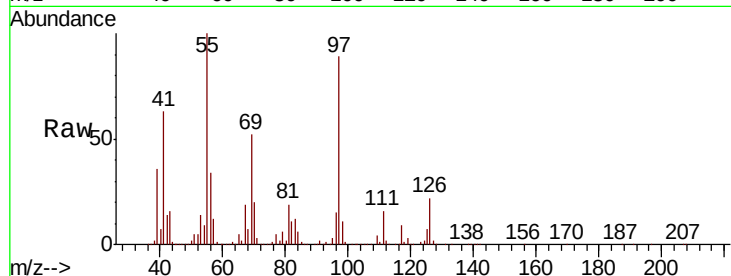




#65
Chlorobenzene
Concen: 9.974 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

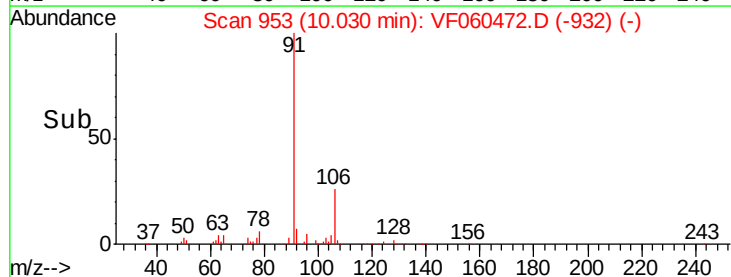
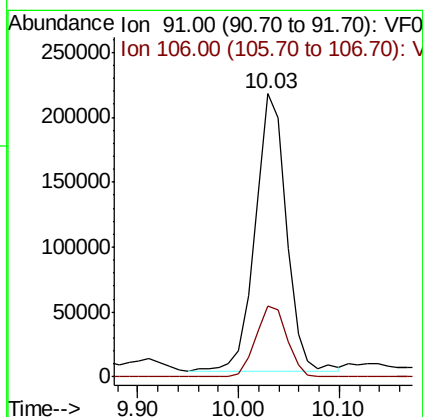
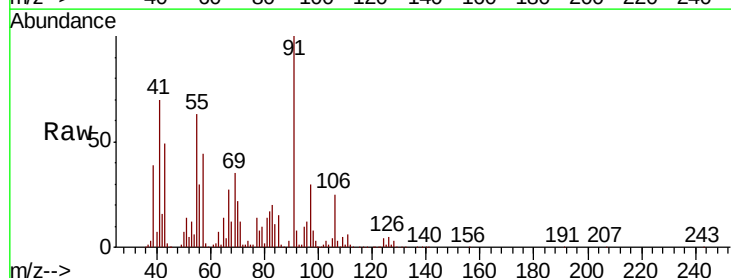
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

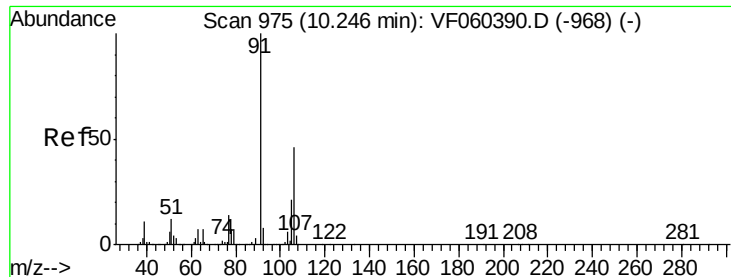
Tot Ion:112 Resp: 27950
Ion Ratio Lower Upper
112 100
114 0.0 27.7 41.5#



#67
Ethyl Benzene
Concen: 86.820 ug/l
RT: 10.03 min Scan# 953
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 91 Resp: 462575
Ion Ratio Lower Upper
91 100
106 25.2 22.5 33.7

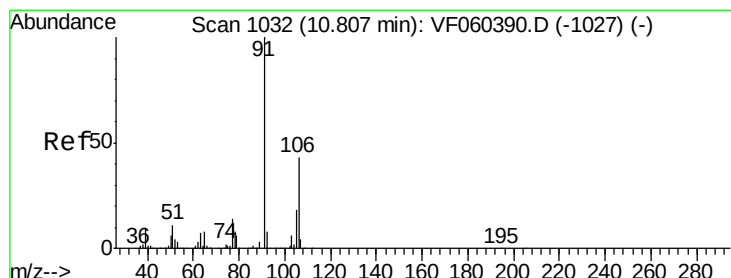
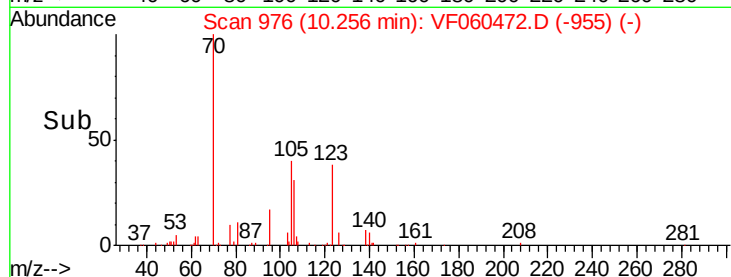
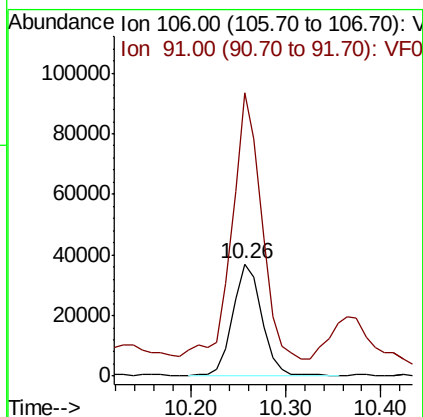
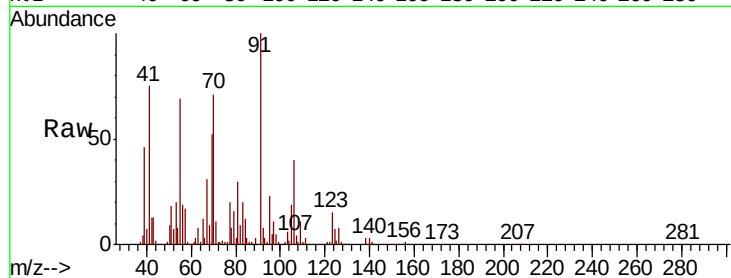




#68
m/p-Xylenes
Concen: 42.861 ug/l
RT: 10.26 min Scan# 976
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

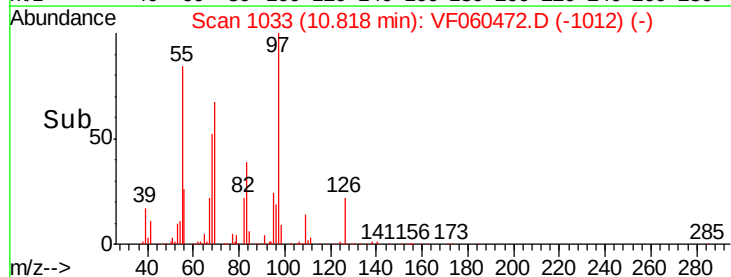
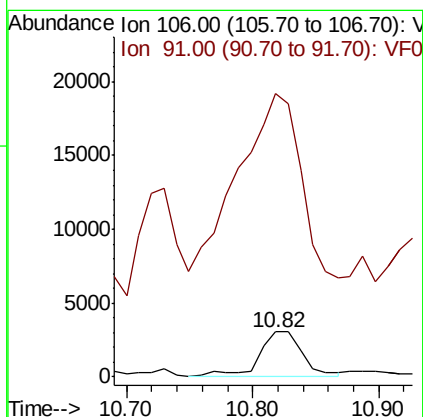
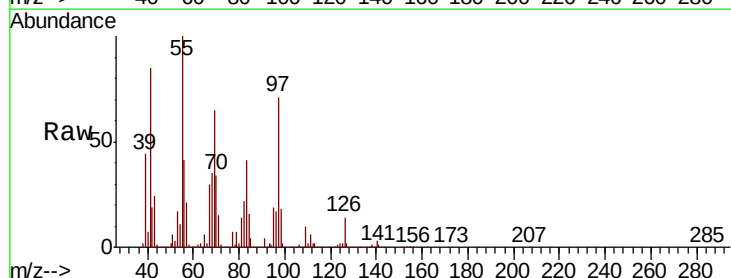
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

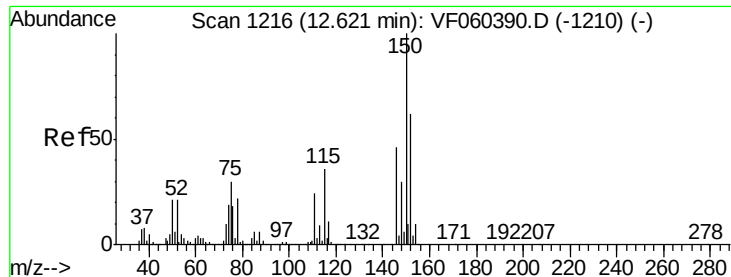
Tot Ion:106 Resp: 78503
Ion Ratio Lower Upper
106 100
91 252.5 175.0 262.6



#69
o-Xylene
Concen: 3.737 ug/l
RT: 10.82 min Scan# 1033
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion:106 Resp: 7460
Ion Ratio Lower Upper
106 100
91 628.8 115.1 345.2#



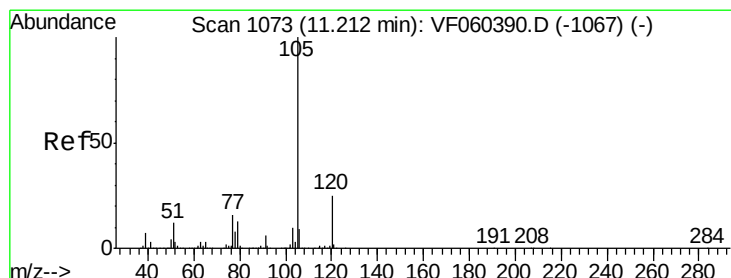
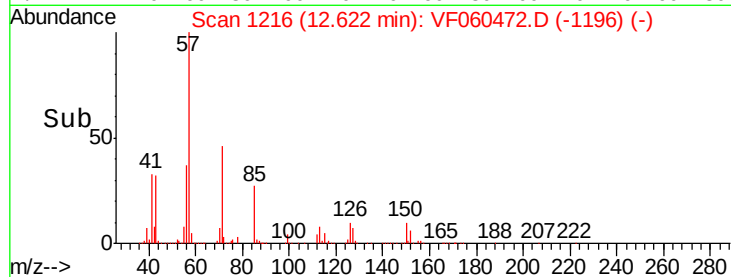
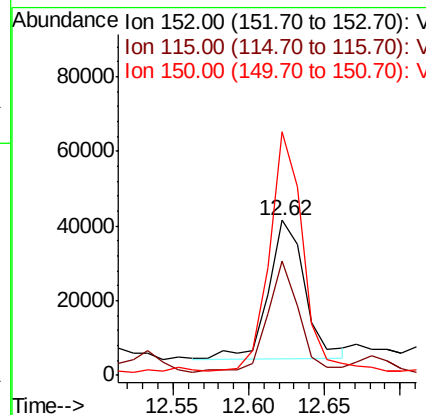
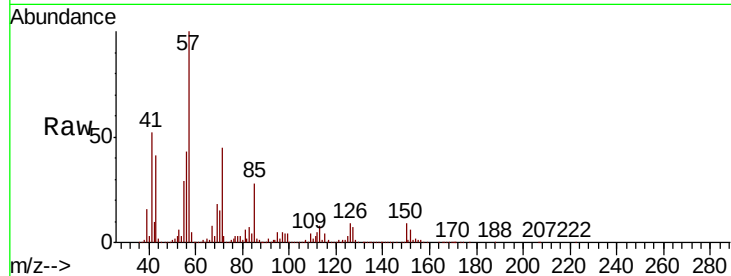


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. 0.00 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

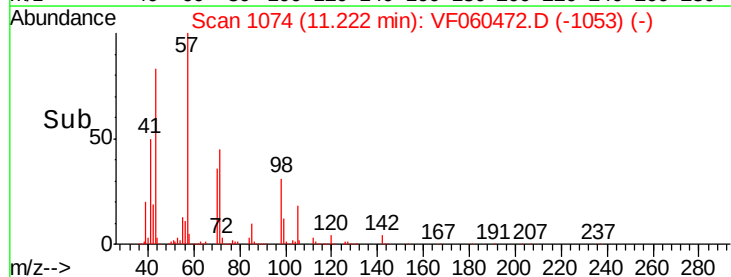
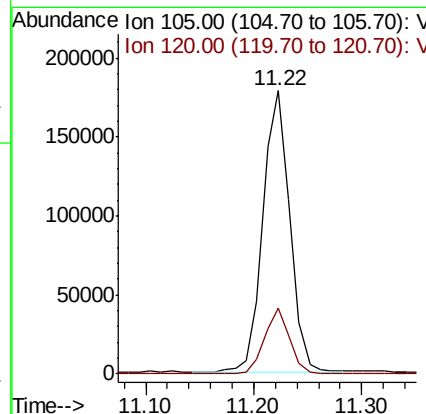
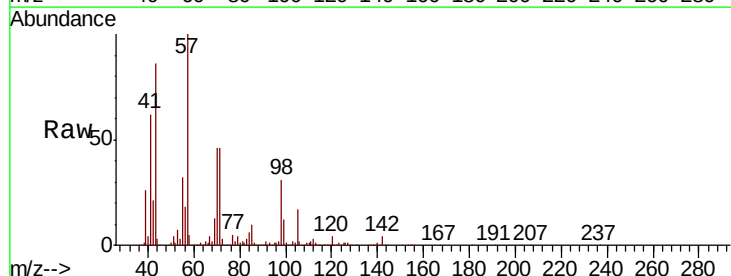
Tot Ion	Ratio	Lower	Upper
152	100		
115	73.8	28.6	85.8
150	157.4	0.0	324.6

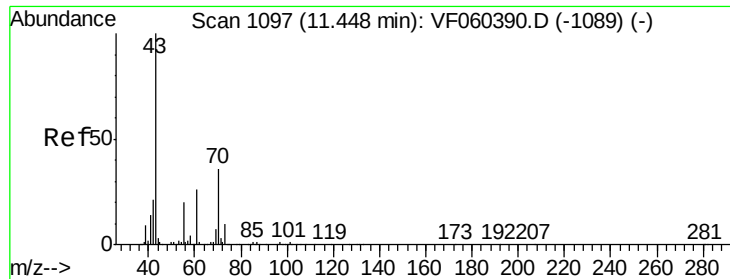


#73

Isopropylbenzene
Concen: 62.514 ug/l
RT: 11.22 min Scan# 1074
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.0	12.3	36.9





#74

N-amvl acetate

Concen: 426.606 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. 0.04 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

B-4(14.5-15)

Tot Ion: 43 Resp: 482587

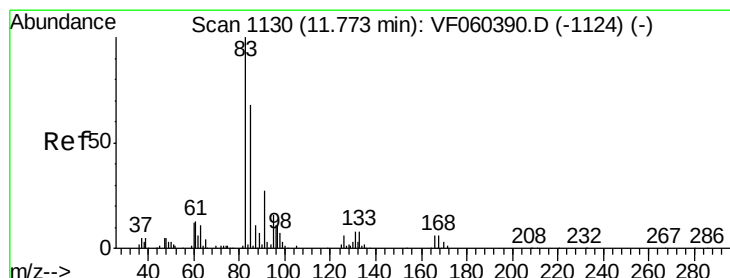
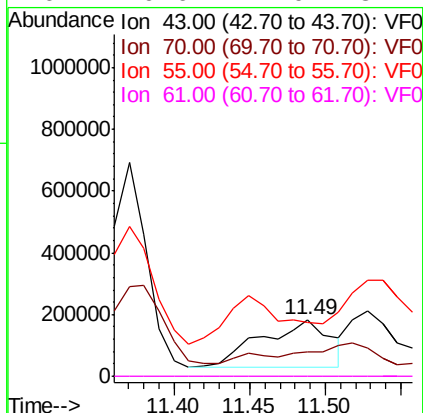
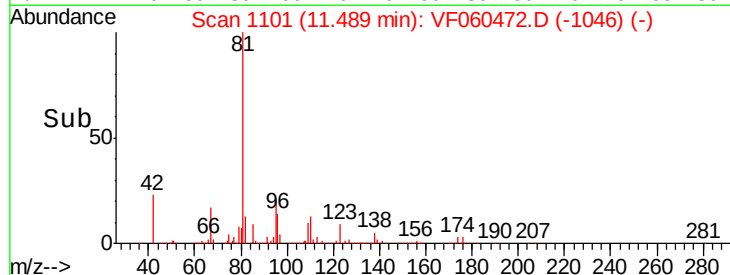
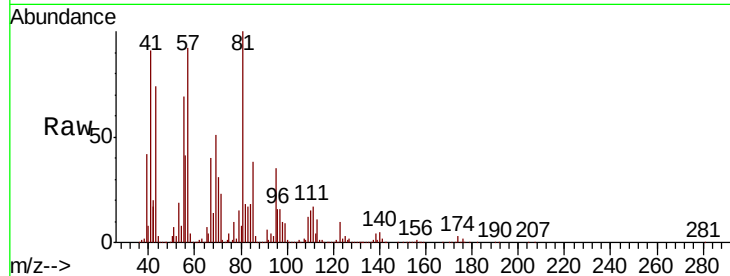
Ion Ratio Lower Upper

43 100

70 42.2 29.1 43.7

55 93.7 16.3 24.5#

61 0.6 21.0 31.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 150.892 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

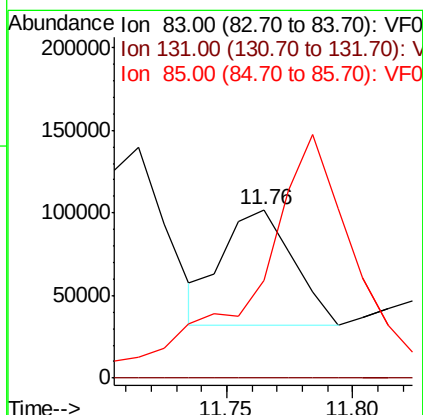
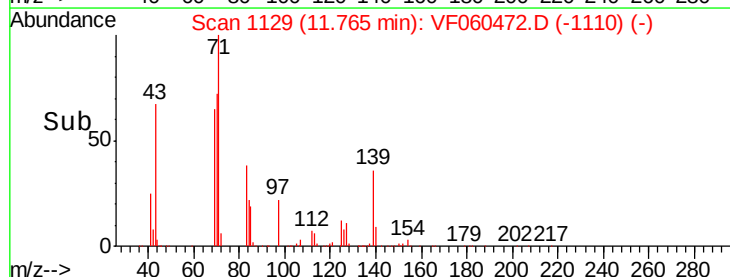
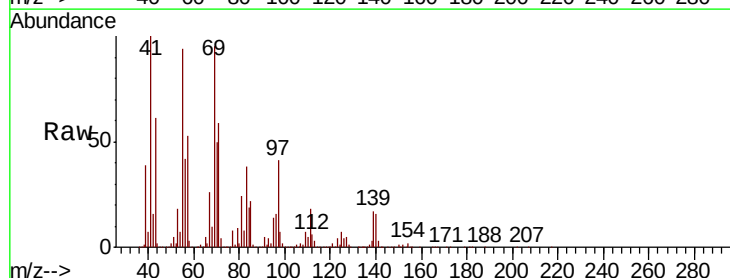
Tgt Ion: 83 Resp: 135595

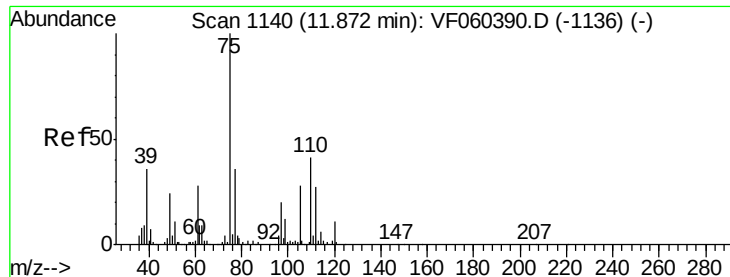
Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

85 57.6 34.0 102.0





#76

1,2,3-Trichloropropane

Concen: 3.622 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.03 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

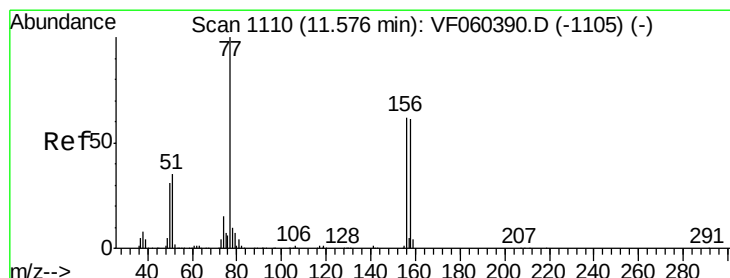
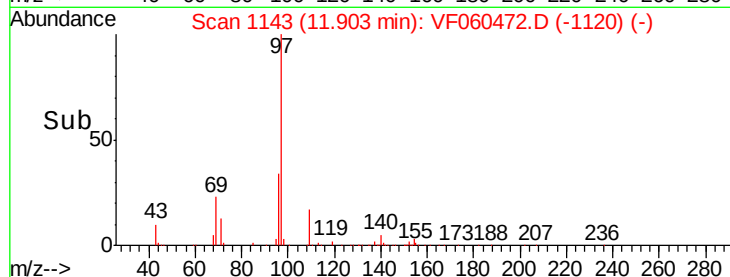
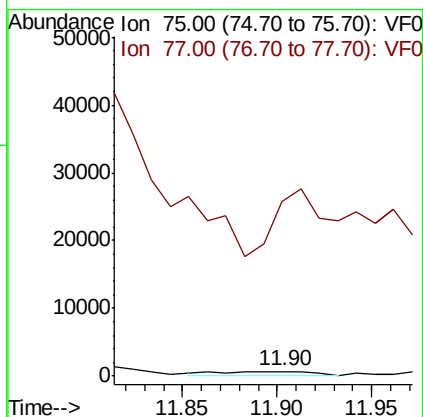
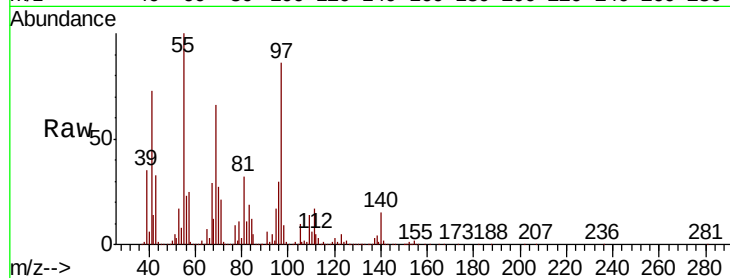
B-4(14.5-15)

Tot Ion: 75 Resp: 2396

Ion Ratio Lower Upper

75 100

77 3617.9 18.1 54.4#



#77

Bromobenzene

Concen: 6.259 ug/l

RT: 11.54 min Scan# 1106

Delta R.T. -0.04 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

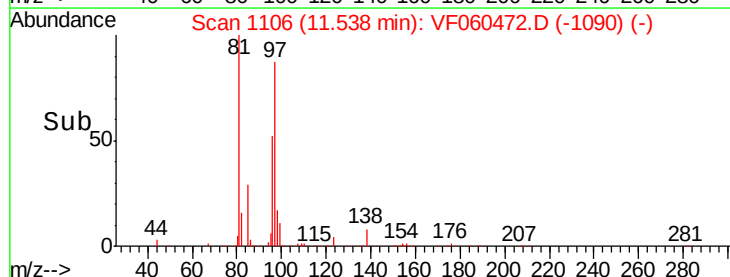
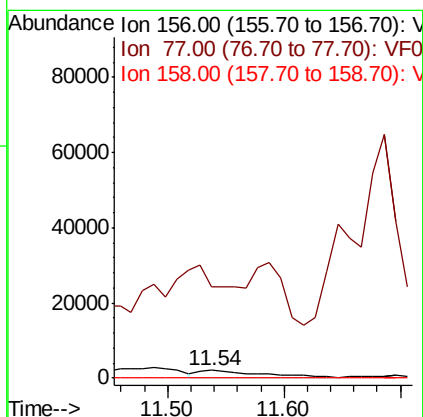
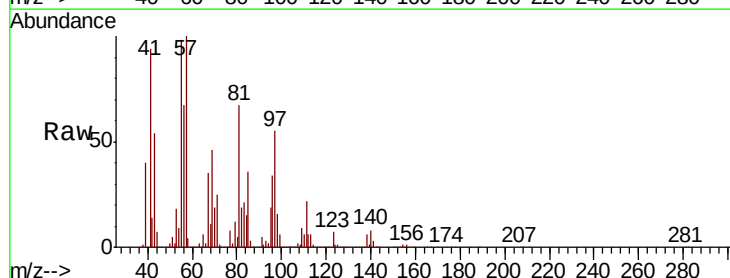
Tgt Ion: 156 Resp: 6896

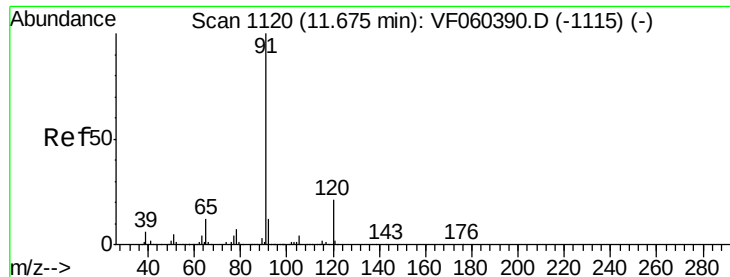
Ion Ratio Lower Upper

156 100

77 1152.0 81.3 243.9#

158 0.0 49.6 149.0#





#78

n-propylbenzene

Concen: 252.000 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

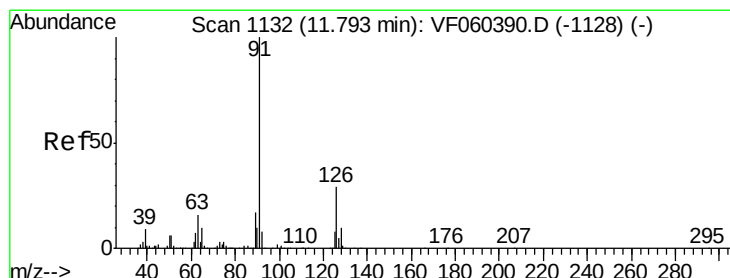
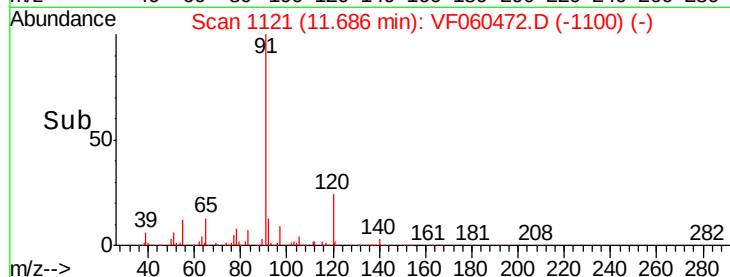
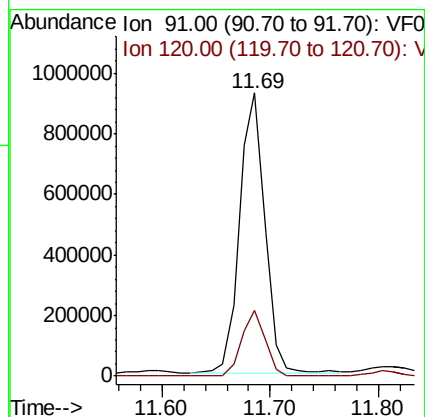
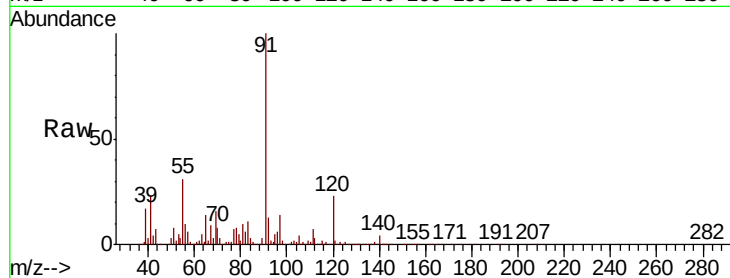
B-4(14.5-15)

Tot Ion: 91 Resp: 1505793

Ion Ratio Lower Upper

91 100

120 23.2 10.5 31.6



#79

2-Chlorotoluene

Concen: 14.264 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.01 min

Lab File: VF060472.D

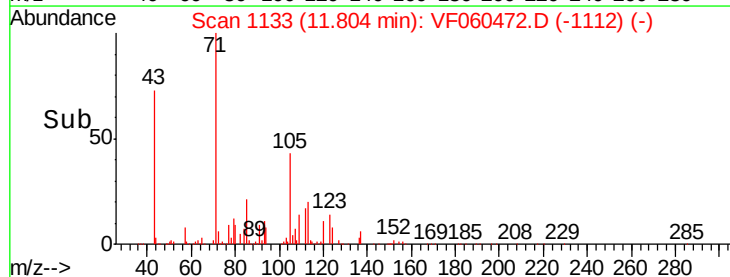
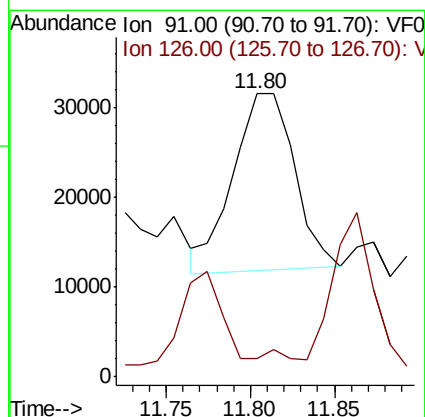
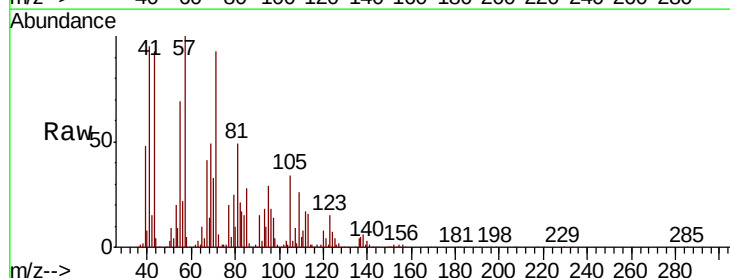
Acq: 5 Oct 2018 23:19

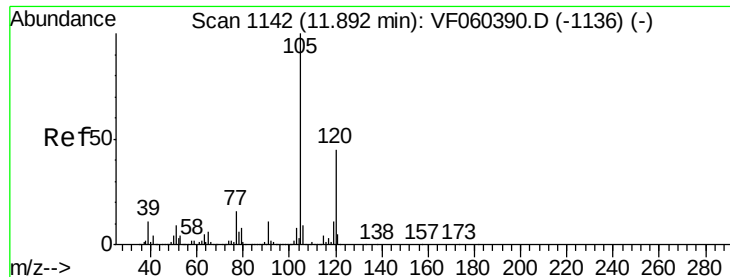
Tgt Ion: 91 Resp: 49858

Ion Ratio Lower Upper

91 100

126 6.7 14.4 43.4#





#80

1,3,5-Trimethylbenzene

Concen: 9.077 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

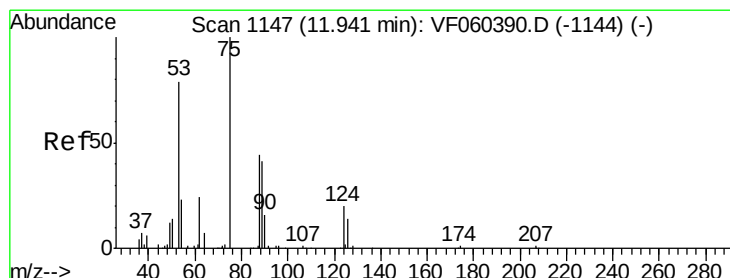
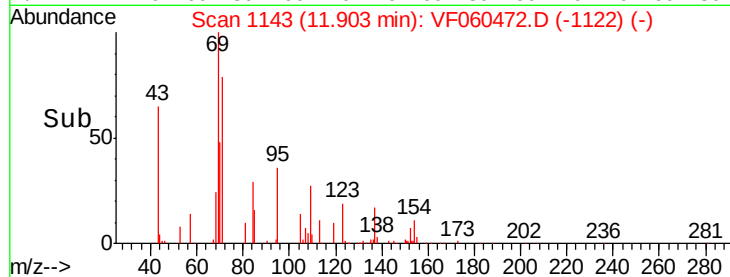
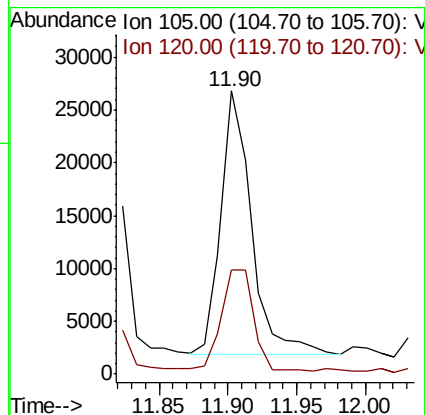
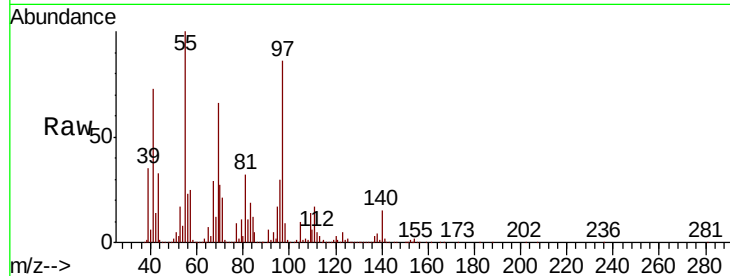
B-4(14.5-15)

Tot Ion:105 Resp: 38013

Ion Ratio Lower Upper

105 100

120 36.6 22.3 66.9



#81

trans-1,4-Dichloro-2-butene

Concen: 8.170 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.04 min

Lab File: VF060472.D

Acq: 5 Oct 2018 23:19

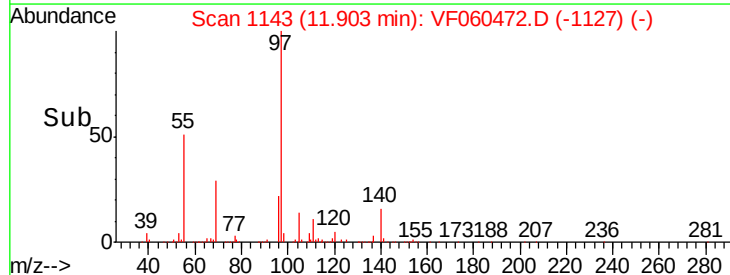
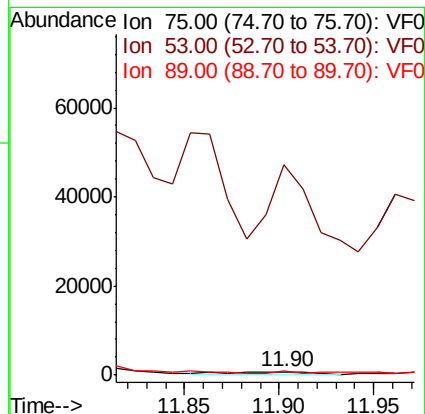
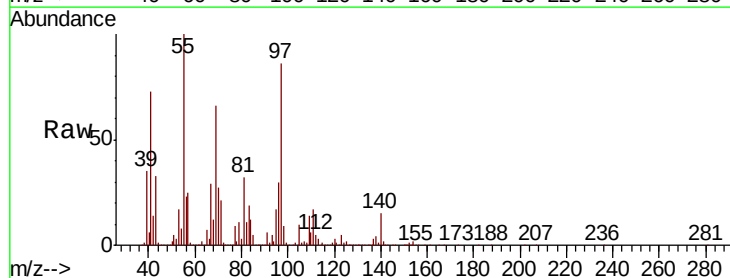
Tgt Ion: 75 Resp: 2396

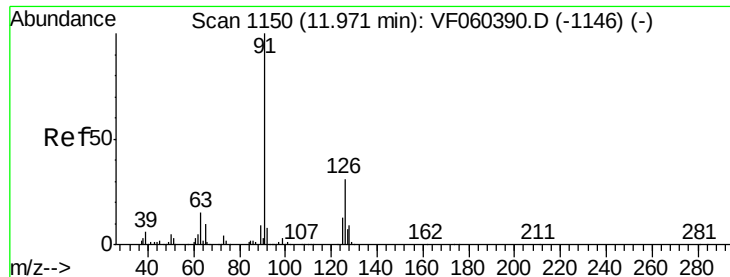
Ion Ratio Lower Upper

75 100

53 6609.5 67.8 101.8#

89 145.5 36.7 55.1#

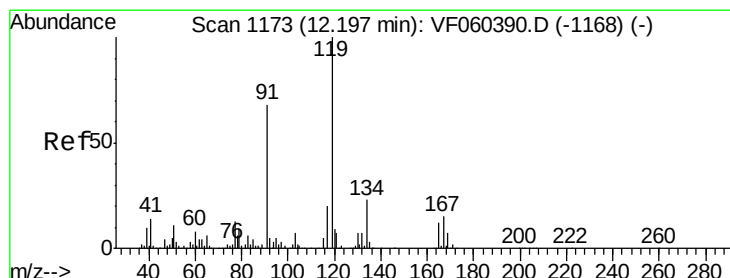
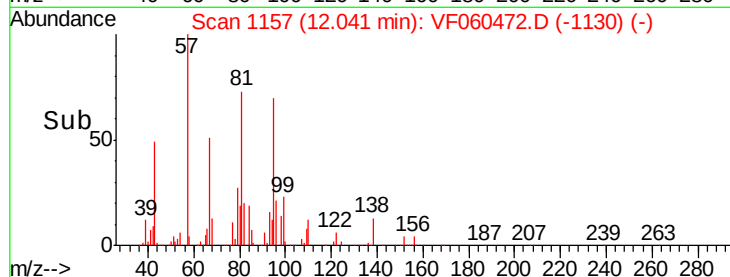
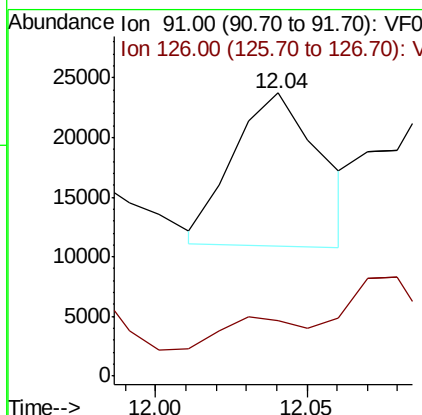
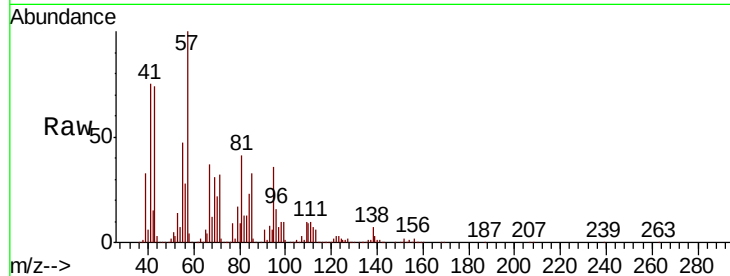




#82
4-Chlorotoluene
Concen: 7.213 ug/l
RT: 12.04 min Scan# 1157
Delta R.T. 0.07 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

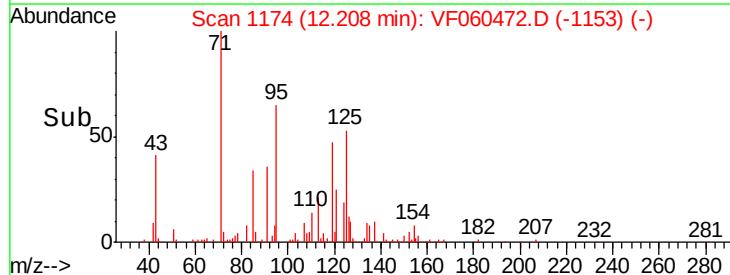
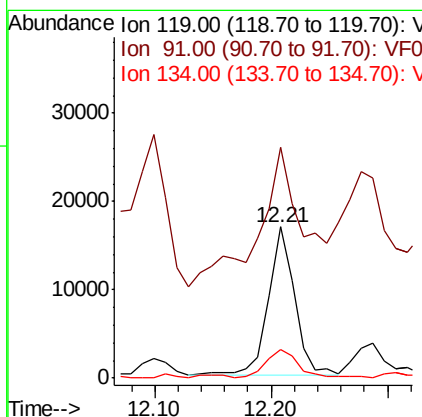
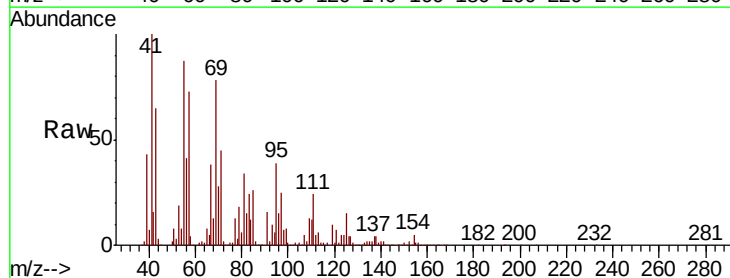
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

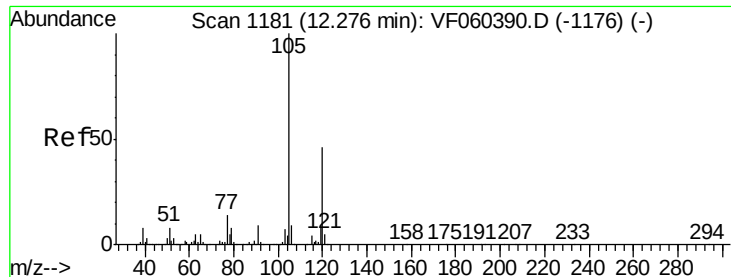
Tot Ion: 91 Resp: 25795
Ion Ratio Lower Upper
91 100
126 19.6 15.7 47.0



#83
tert-Butylbenzene
Concen: 6.440 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 119 Resp: 26598
Ion Ratio Lower Upper
119 100
91 153.2 34.0 102.0#
134 19.3 11.7 35.0

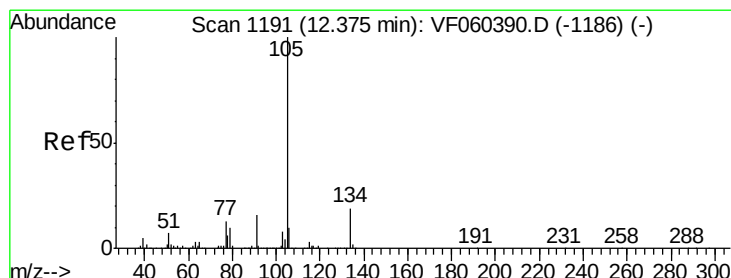
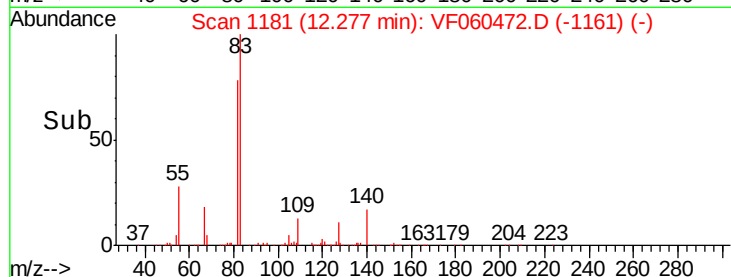
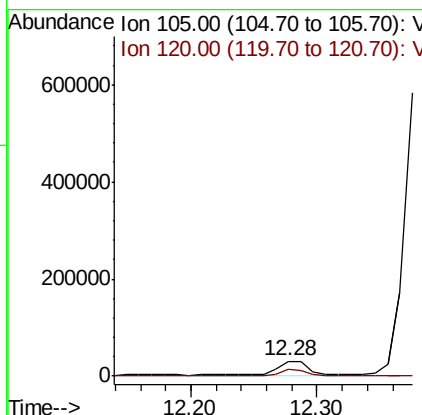
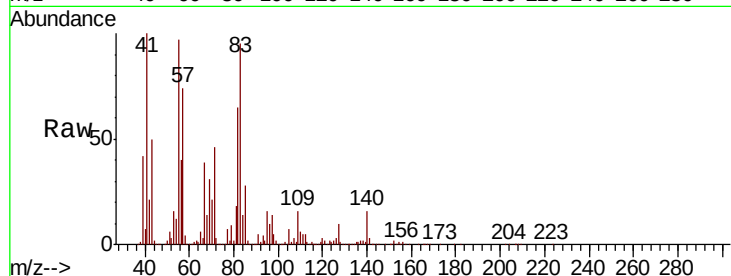




#84
 1,2,4-Trimethylbenzene
 Concen: 12.116 ug/l
 RT: 12.28 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VF060472.D
 Acq: 5 Oct 2018 23:19

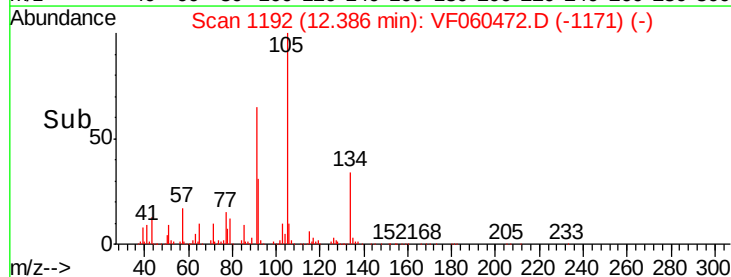
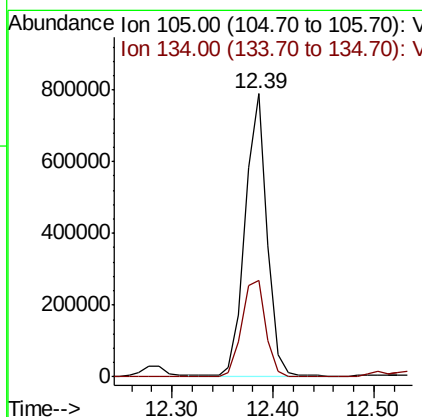
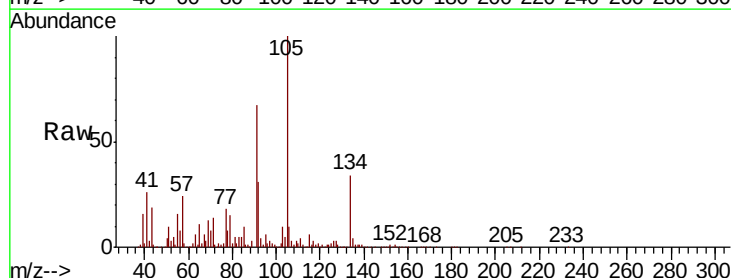
Instrument :
 MSVOA_F
 ClientSampleId :
 B-4(14.5-15)

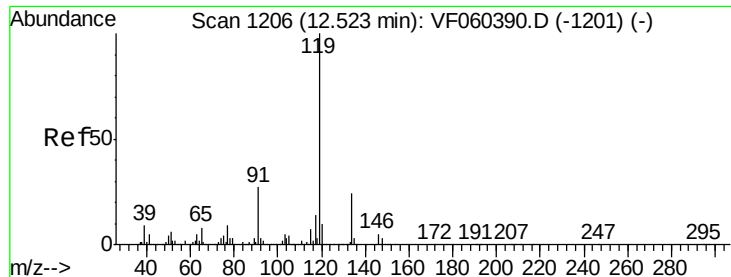
Tot Ion:105 Resp: 50319
 Ion Ratio Lower Upper
 105 100
 120 43.2 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 207.544 ug/l
 RT: 12.39 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VF060472.D
 Acq: 5 Oct 2018 23:19

Tgt Ion:105 Resp: 1183266
 Ion Ratio Lower Upper
 105 100
 134 34.1 9.4 28.3#

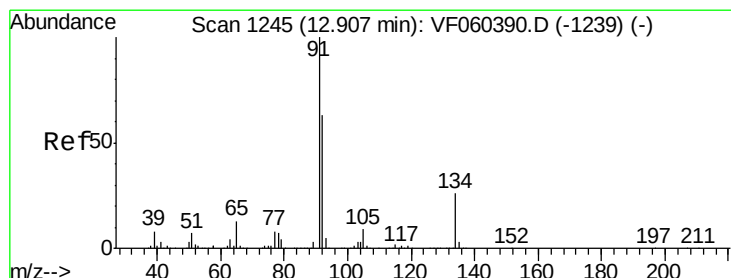
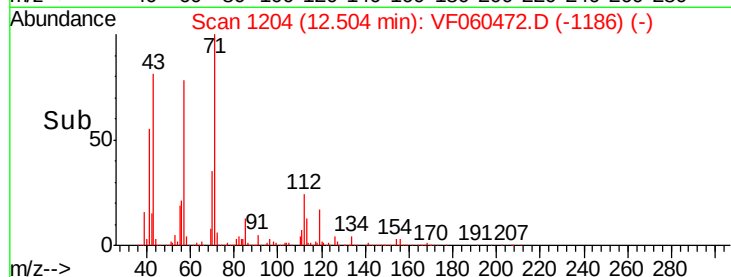
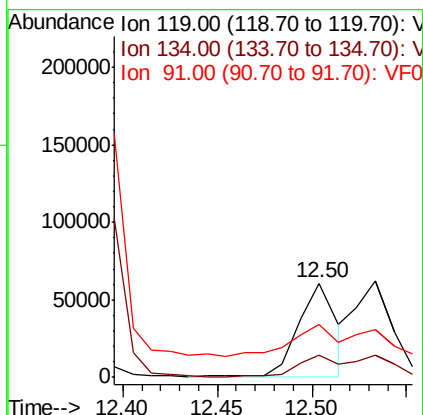
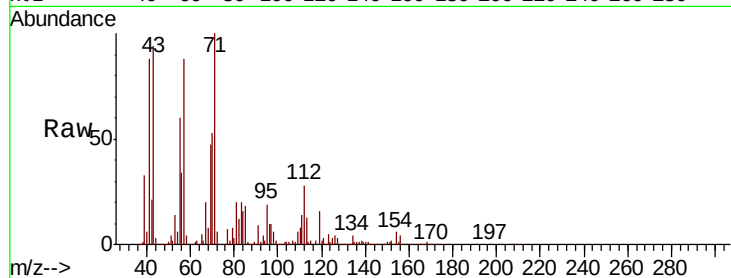




#86
p-Isopropyltoluene
Concen: 17.802 ug/l
RT: 12.50 min Scan# 1204
Delta R.T. -0.02 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

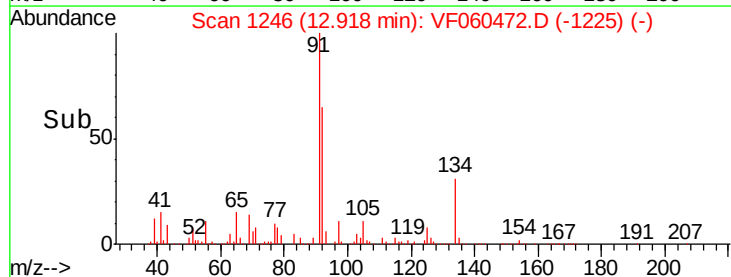
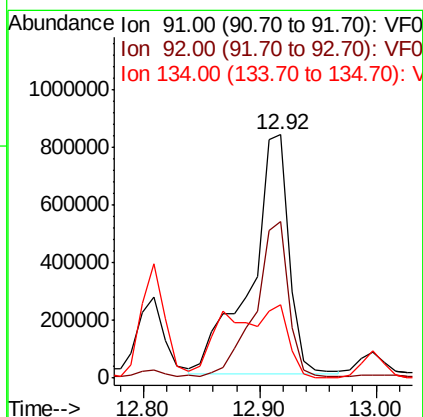
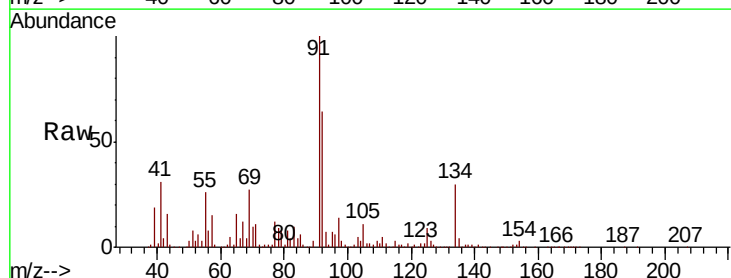
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

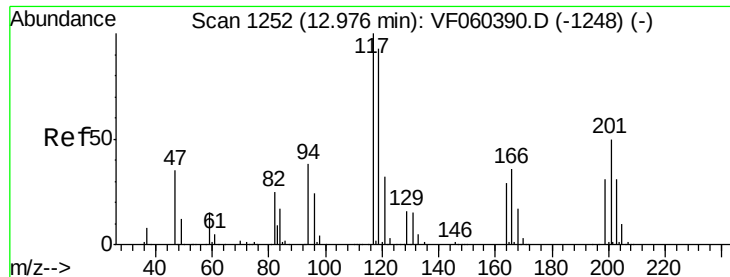
Tot Ion:119 Resp: 82917
Ion Ratio Lower Upper
119 100
134 23.7 12.3 36.8
91 56.4 13.5 40.4#



#89
n-Butylbenzene
Concen: 383.733 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 91 Resp: 1891331
Ion Ratio Lower Upper
91 100
92 64.2 31.3 93.9
134 30.3 13.0 38.9

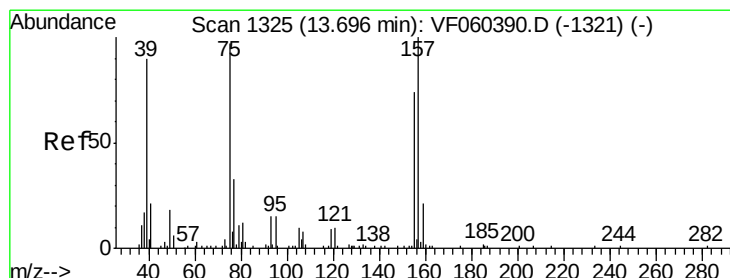
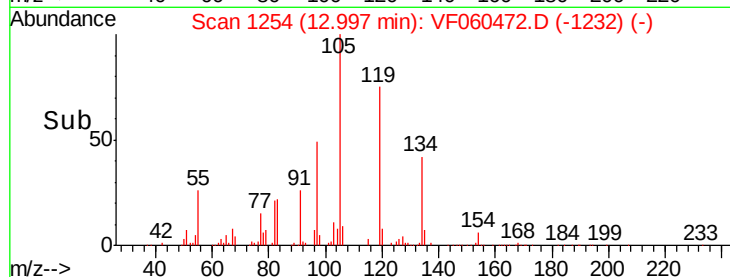
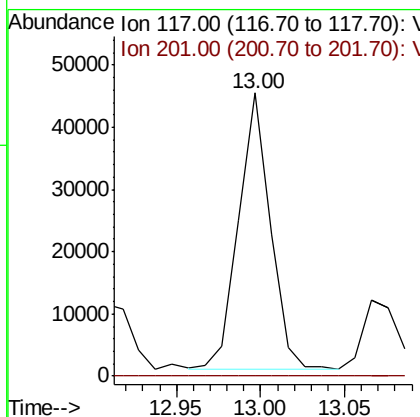
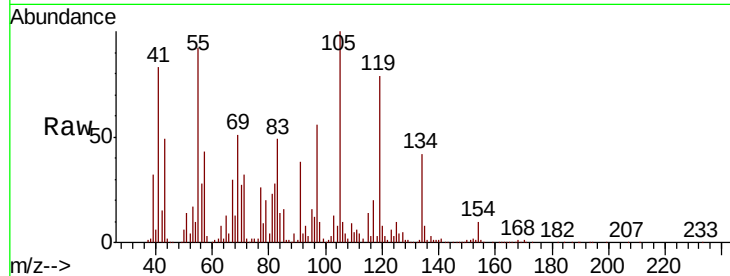




#90
Hexachloroethane
Concen: 48.333 ug/l
RT: 13.00 min Scan# 1254
Delta R.T. 0.02 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

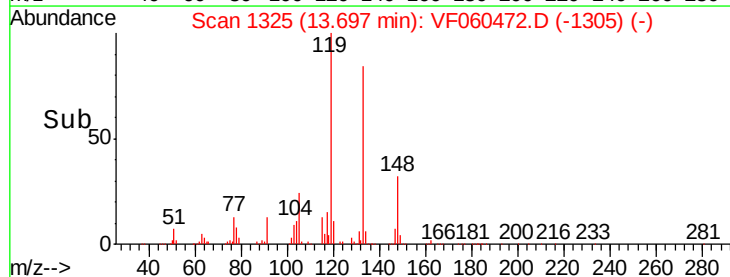
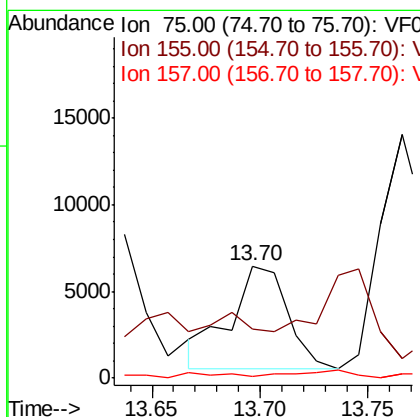
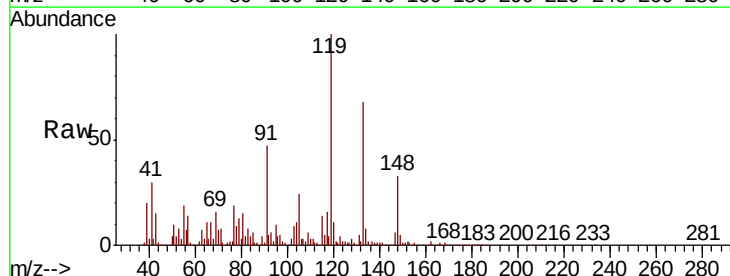
Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

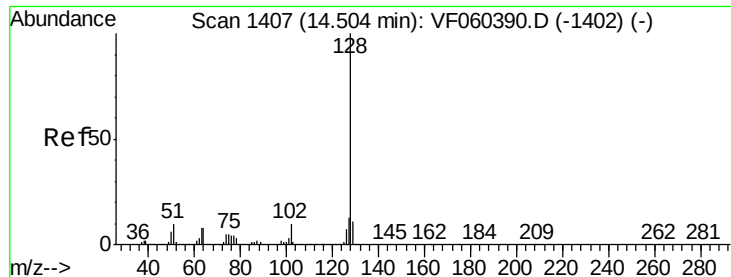
Tot Ion:117 Resp: 58186
Ion Ratio Lower Upper
117 100
201 0.0 25.5 76.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 62.259 ug/l
RT: 13.70 min Scan# 1325
Delta R.T. 0.00 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion: 75 Resp: 10846
Ion Ratio Lower Upper
75 100
155 43.9 37.9 113.6
157 1.7 51.3 154.0#

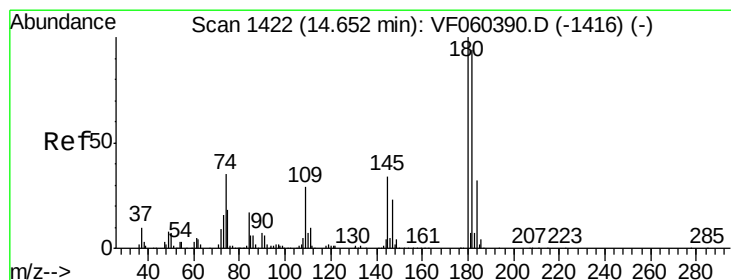
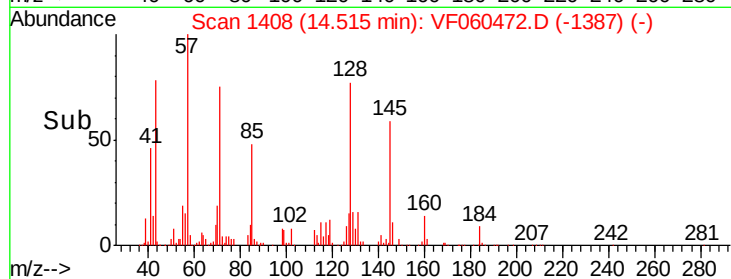
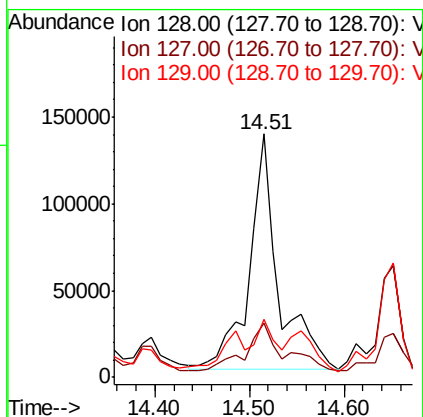
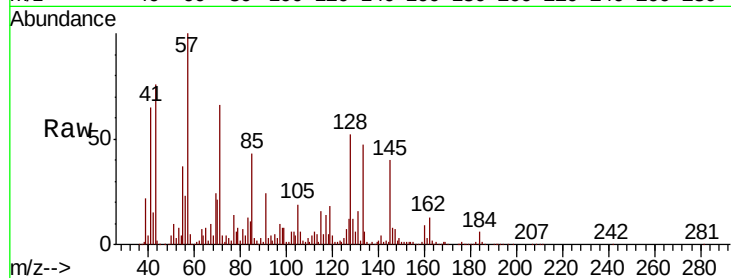




#95
Naphthalene
Concen: 107.600 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. 0.01 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Instrument :
MSVOA_F
ClientSampleId :
B-4(14.5-15)

Tot Ion:128 Resp: 285653
Ion Ratio Lower Upper
128 100
127 22.4 10.0 15.0#
129 23.6 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.615 ug/l
RT: 14.69 min Scan# 1426
Delta R.T. 0.04 min
Lab File: VF060472.D
Acq: 5 Oct 2018 23:19

Tgt Ion:180 Resp: 3640
Ion Ratio Lower Upper
180 100
182 61.1 46.8 140.3
145 1934.1 16.9 50.6#

