

Data File : VW010691.D
Acq On : 05 Jun 2019 14:43
Operator : SY/VA
Sample : K3171-02RE
Misc : 4.17G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-A

Quant Time: Jun 06 07:28:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 05 03:21:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	201105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	357069	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	280143	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	95951	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	141746	59.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.60%	
35) Dibromofluoromethane	7.88	113	57812	29.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.66%	
50) Toluene-d8	10.32	98	443257	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.62	95	134350	43.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.88%	

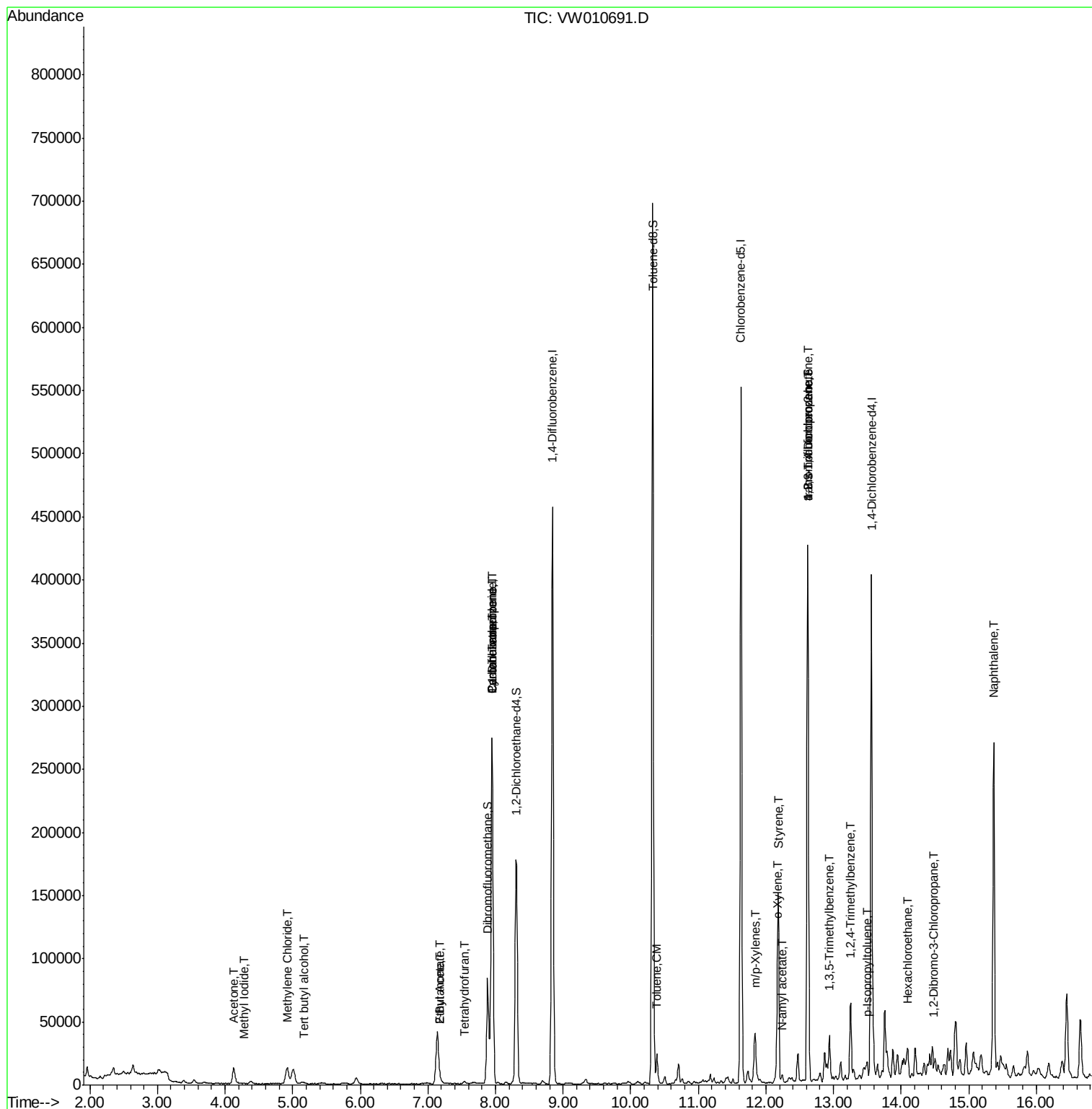
Target Compounds				Qvalue		
10) Methyl Iodide	4.28	142	113	4.848	ug/l #	41
11) Tert butyl alcohol	5.17	59	1421	7.359	ug/l	95
16) Acetone	4.13	43	23554	37.085	ug/l	97
20) Methylene Chloride	4.92	84	9091	4.080	ug/l	97
25) 2-Butanone	7.18	43	6491	7.370	ug/l #	88
29) Tetrahydrofuran	7.54	42	1734	3.130	ug/l	95
31) Cyclohexane	7.95	56	5791	1.211	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18176	4.973	ug/l #	50
37) Ethyl Acetate	7.18	43	6491	3.205	ug/l #	72
38) Carbon Tetrachloride	7.95	117	20628	6.538	ug/l #	17
52) Toluene	10.39	92	9159	1.493	ug/l	97
68) m/p-Xylenes	11.83	106	9876	2.606	ug/l	100
69) o-Xylene	12.16	106	5512	1.533	ug/l	100
70) Styrene	12.18	104	62387	9.991	ug/l	93
74) N-amyl acetate	12.24	43	4049	1.738	ug/l #	56
76) 1,2,3-Trichloropropane	12.62	75	72468	71.920	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	11139	1.887	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	72468	165.296	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.26	105	32522	5.476	ug/l	99
86) p-Isopropyltoluene	13.50	119	6618	1.015	ug/l	95
90) Hexachloroethane	14.10	117	1347	1.153	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.48	75	408	1.731	ug/l #	6
95) Naphthalene	15.37	128	212499	61.060	ug/l	100

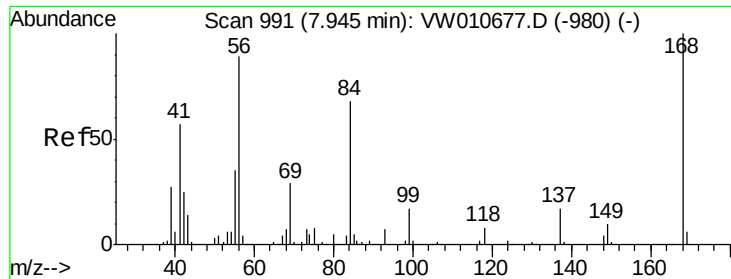
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

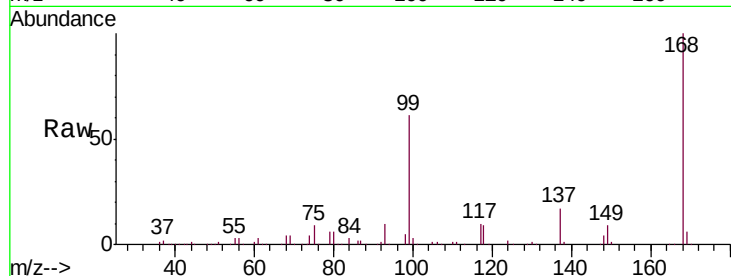
FK-SF-03-008-A

Tgt Ion:168 Resp: 201105

Ion Ratio Lower Upper

168 100

99 60.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

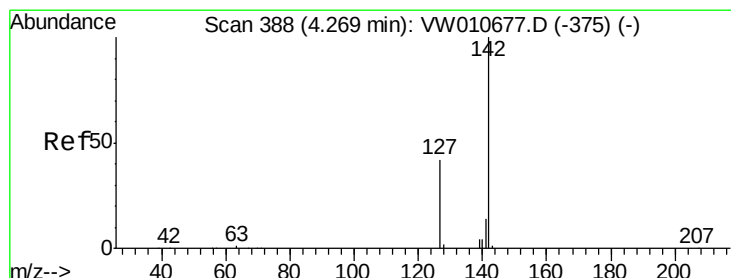
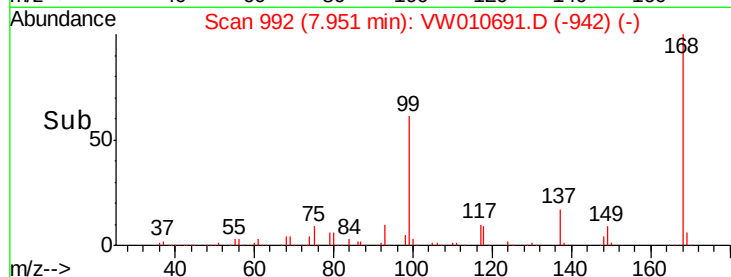
40000

20000

0

Time-->

7.90 8.00



#10

Methyl Iodide

Concen: 4.848 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

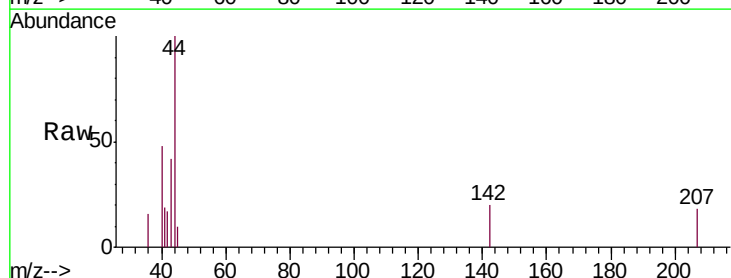
Tgt Ion:142 Resp: 113

Ion Ratio Lower Upper

142 100

127 0.0 34.6 51.8#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

120

100

80

60

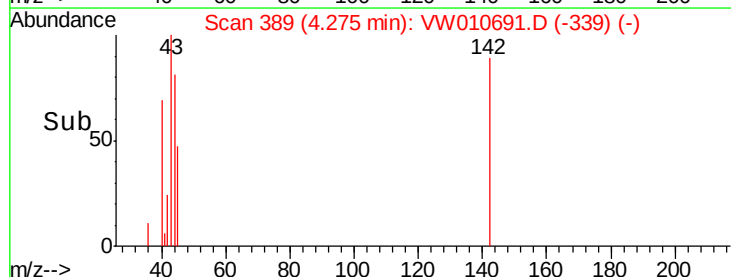
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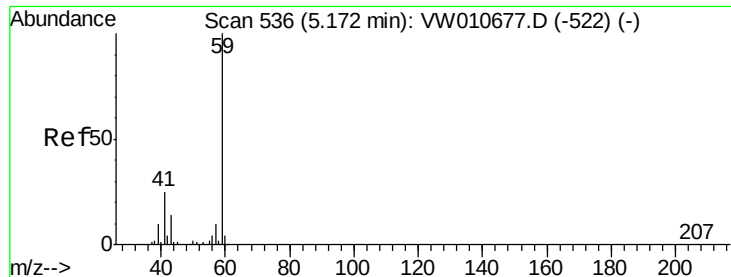
20

0

Time-->

4.24 4.26 4.28 4.30 4.32





#11

Tert butyl alcohol

Concen: 7.359 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

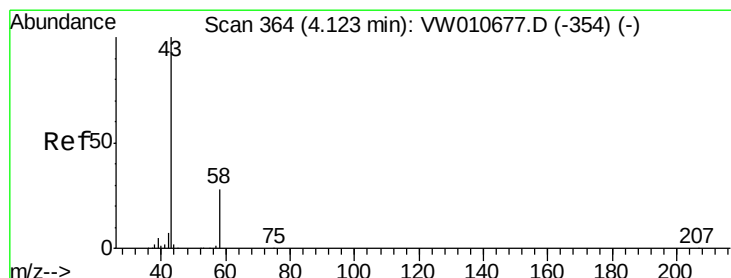
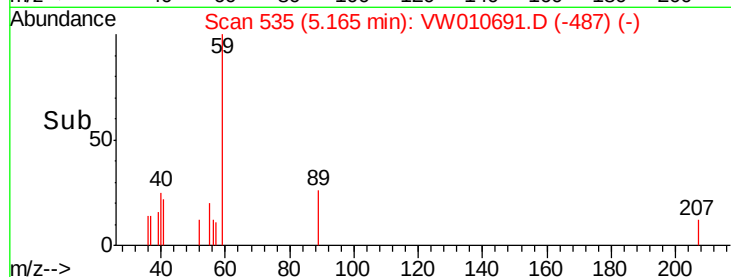
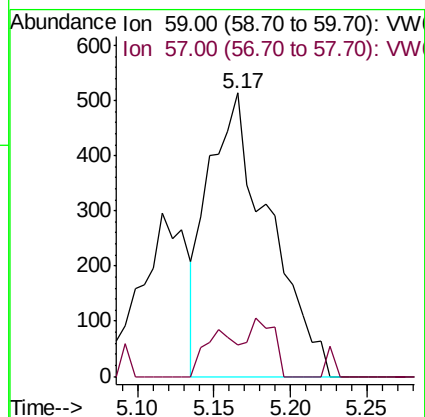
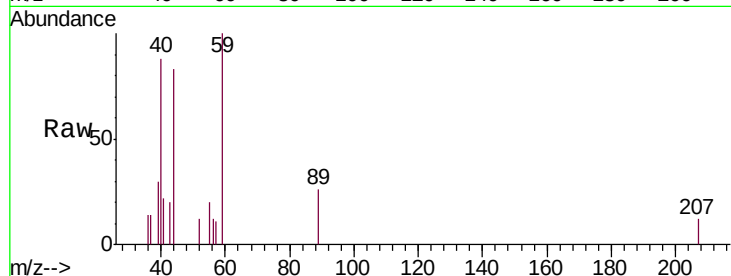
FK-SF-03-008-A

Tgt Ion: 59 Resp: 1421

Ion Ratio Lower Upper

59 100

57 8.9 8.6 12.8



#16

Acetone

Concen: 37.085 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010691.D

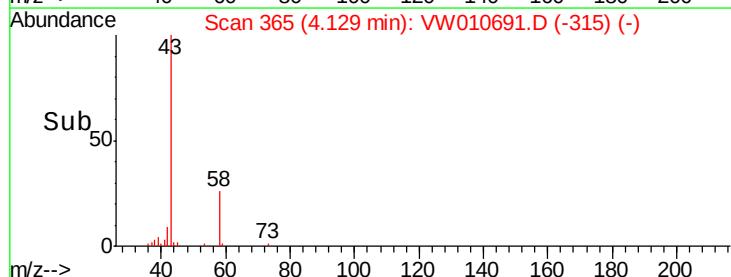
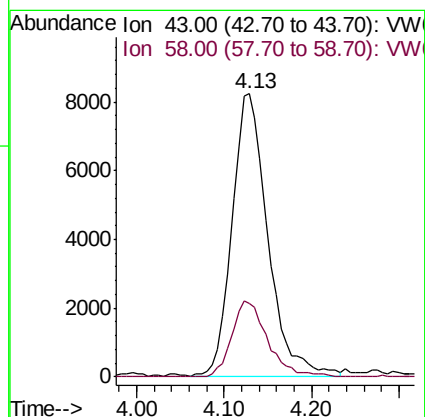
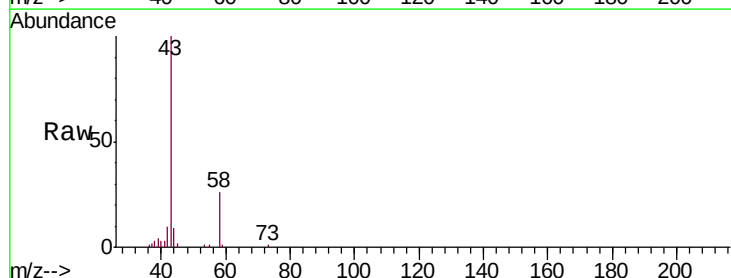
Acq: 05 Jun 2019 14:43

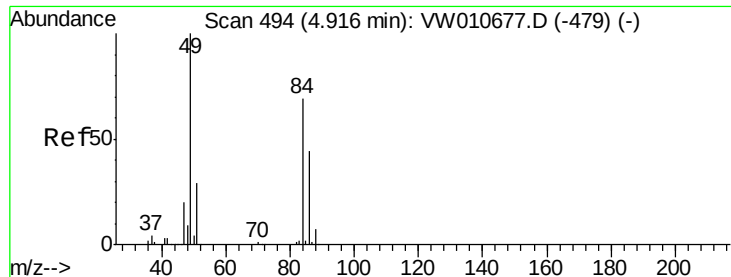
Tgt Ion: 43 Resp: 23554

Ion Ratio Lower Upper

43 100

58 26.1 22.1 33.1

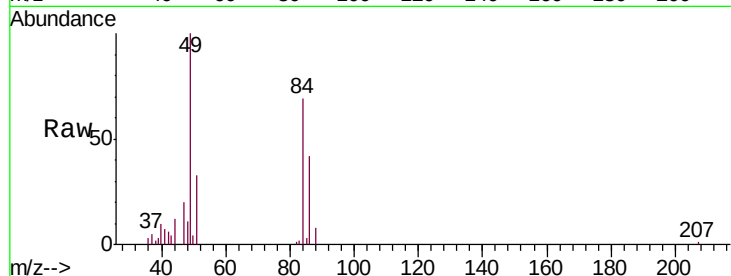




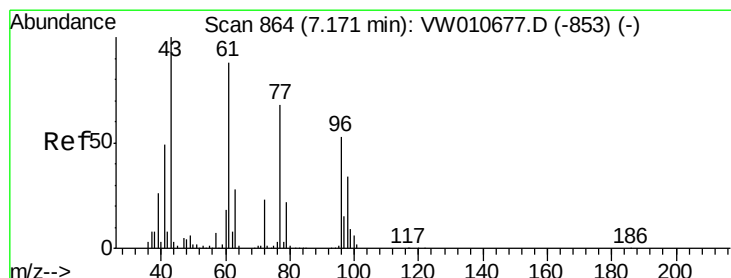
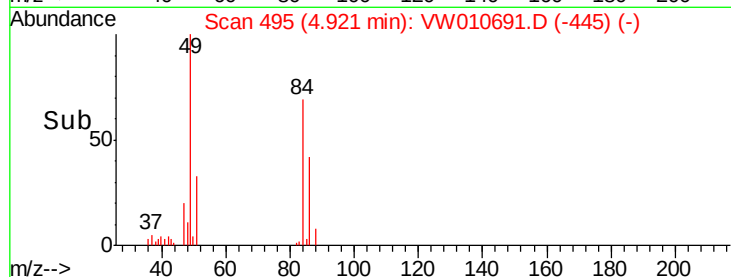
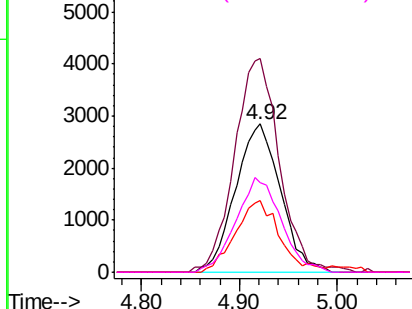
#20
Methylene Chloride
Concen: 4.080 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW010691.D
Acq: 05 Jun 2019 14:43

Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-A

Tgt Ion: 84 Resp: 9091
Ion Ratio Lower Upper
84 100
49 144.1 116.7 175.1
51 48.2 34.2 51.2
86 60.3 51.2 76.8

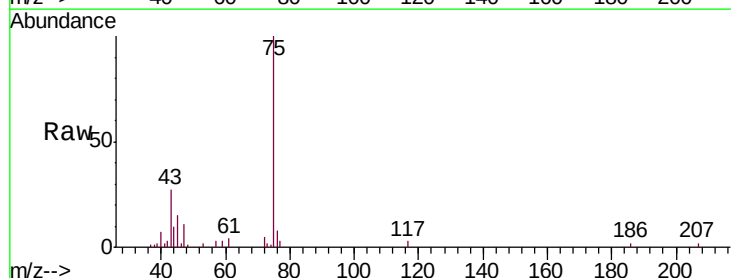


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

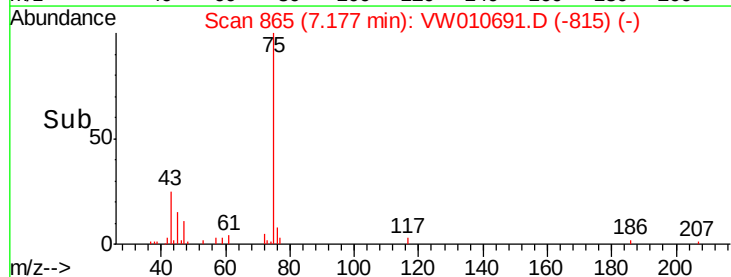
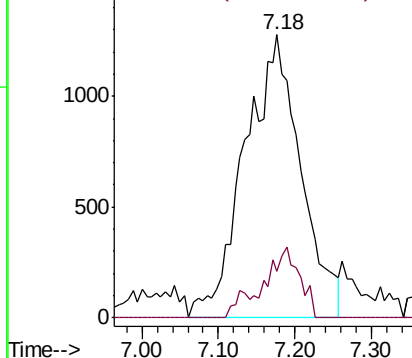


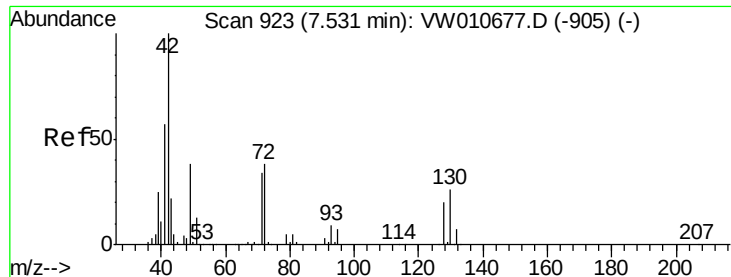
#25
2-Butanone
Concen: 7.370 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW010691.D
Acq: 05 Jun 2019 14:43

Tgt Ion: 43 Resp: 6491
Ion Ratio Lower Upper
43 100
72 16.6 18.1 27.1#



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





#29

Tetrahydrofuran

Concen: 3.130 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-A

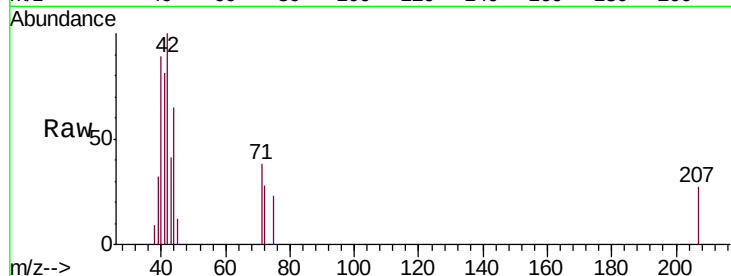
Tgt Ion: 42 Resp: 1734

Ion Ratio Lower Upper

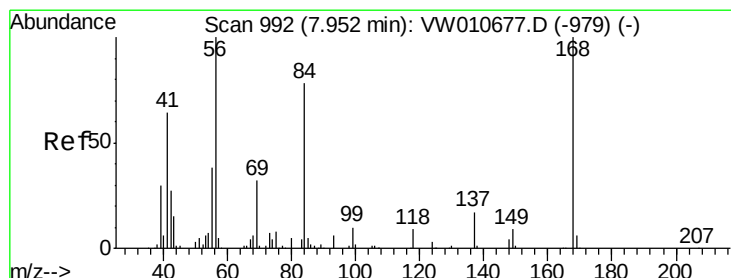
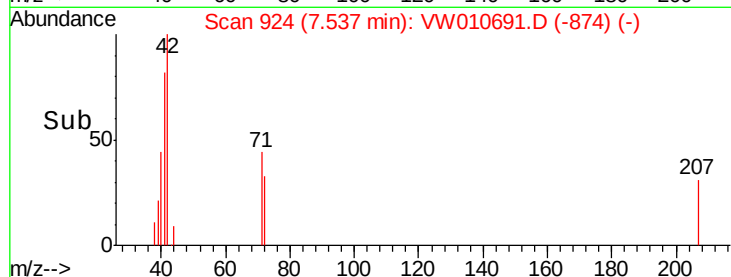
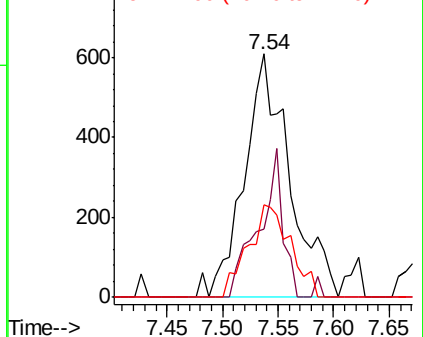
42 100

72 32.5 28.7 43.1

71 35.2 26.6 39.8



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



#31

Cyclohexane

Concen: 1.211 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

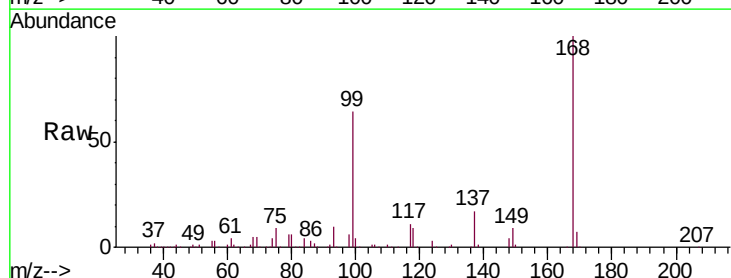
Tgt Ion: 56 Resp: 5791

Ion Ratio Lower Upper

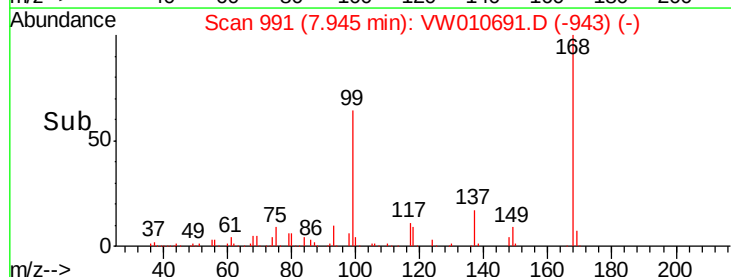
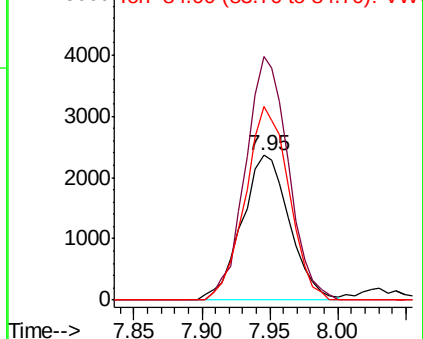
56 100

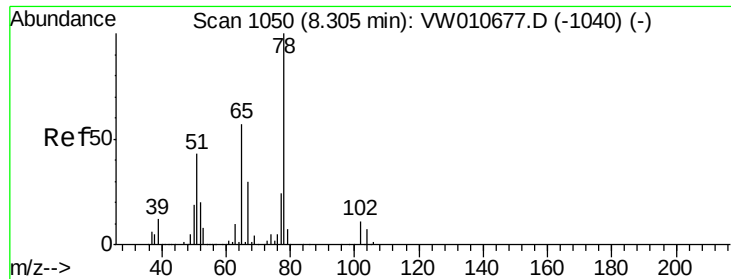
69 168.5 25.2 37.8#

84 133.9 62.2 93.2#



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

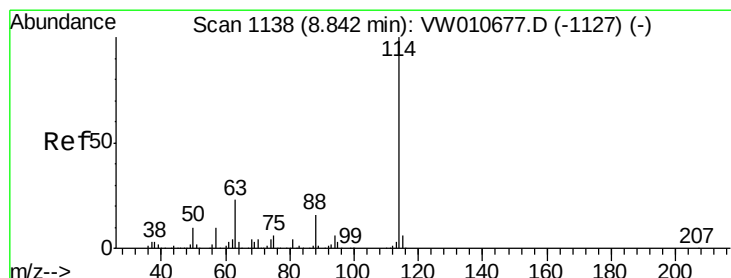
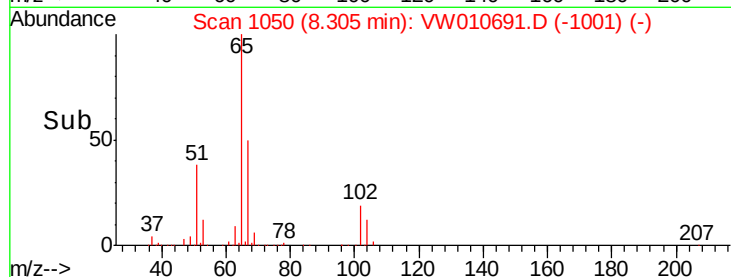
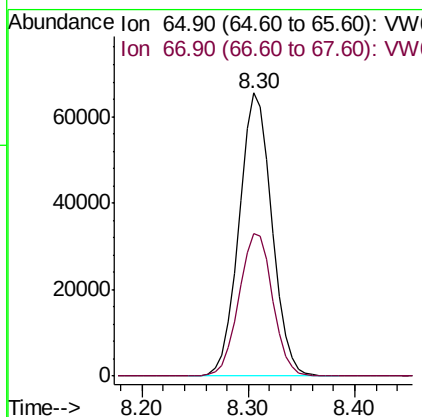
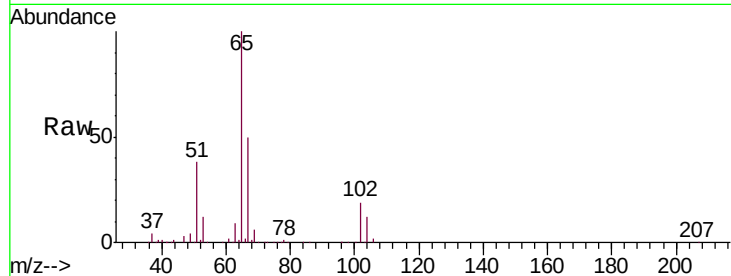




#33
 1,2-Dichloroethane-d4
 Concen: 59.799 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

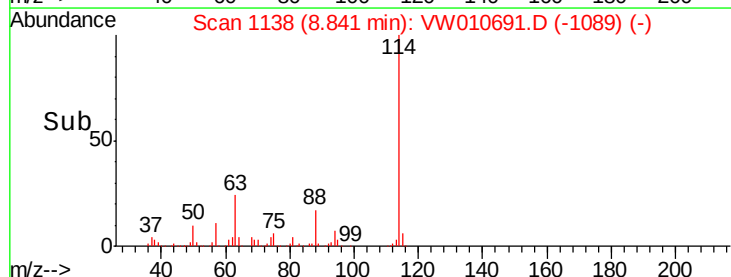
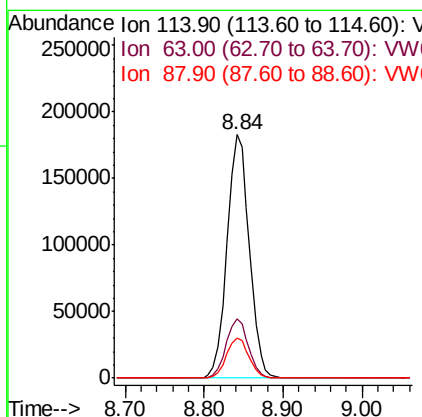
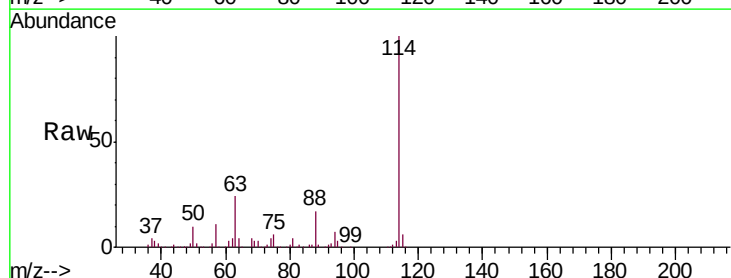
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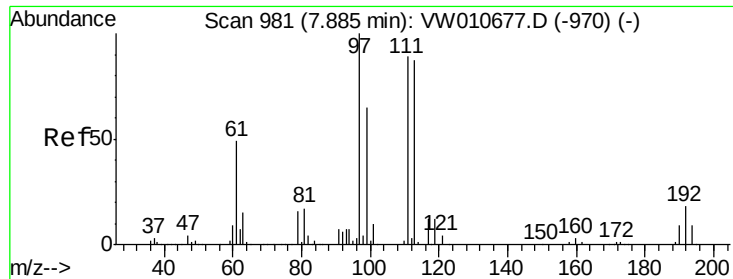
Tgt Ion: 65 Resp: 141746
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

Tgt Ion: 114 Resp: 357069
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 46.4
 88 16.7 0.0 32.2

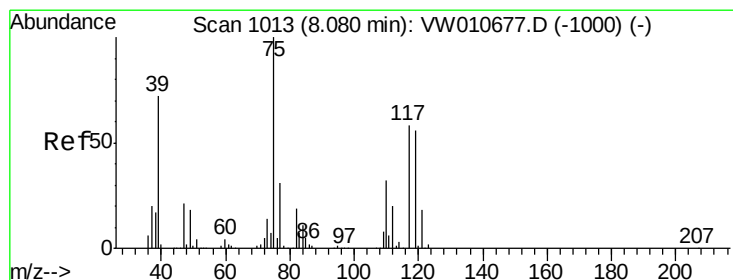
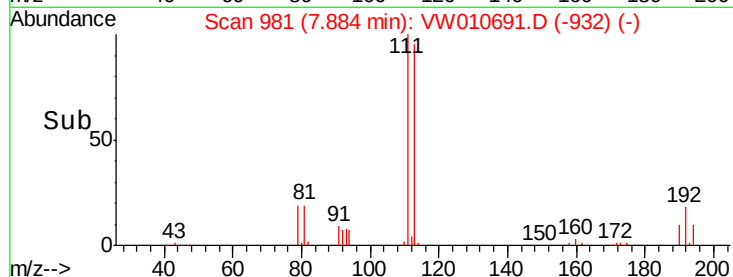
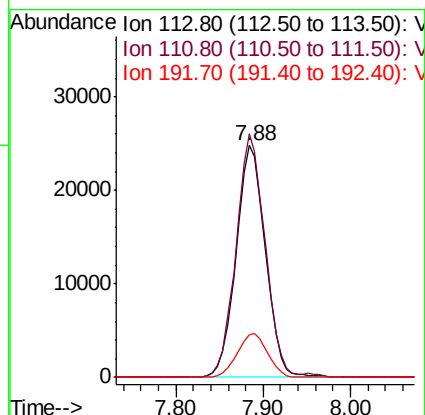
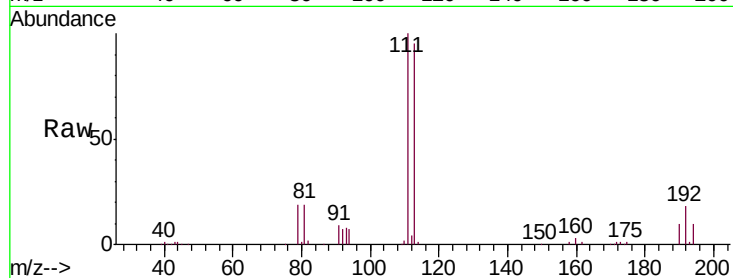




#35
 Dibromofluoromethane
 Concen: 29.829 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

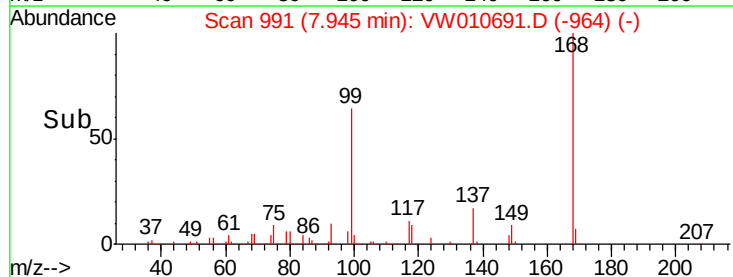
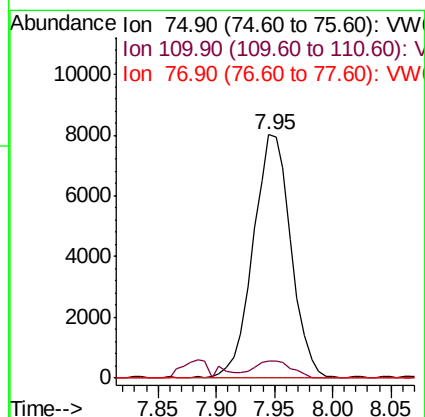
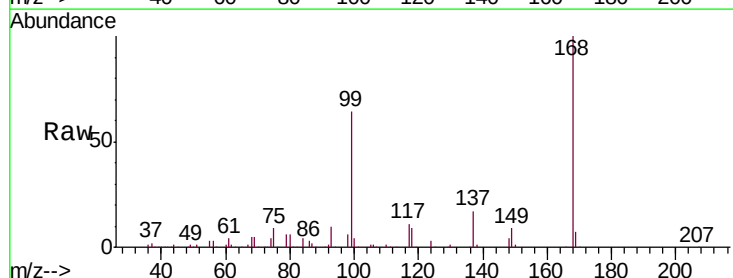
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 FK-SF-03-008-A

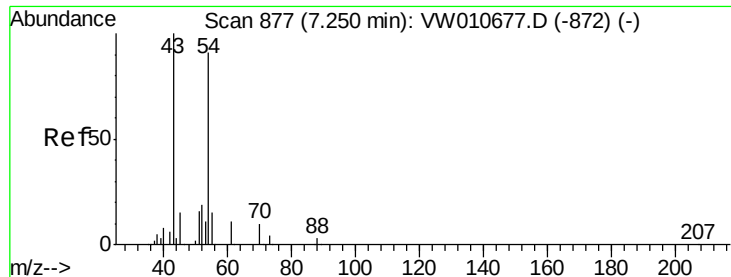
Tgt Ion: 113 Resp: 57812
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.6 123.8
 192 19.5 16.4 24.6



#36
 1,1-Dichloropropene
 Concen: 4.973 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

Tgt Ion: 75 Resp: 18176
 Ion Ratio Lower Upper
 75 100
 110 7.0 15.8 47.3#
 77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 3.205 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.07 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-A

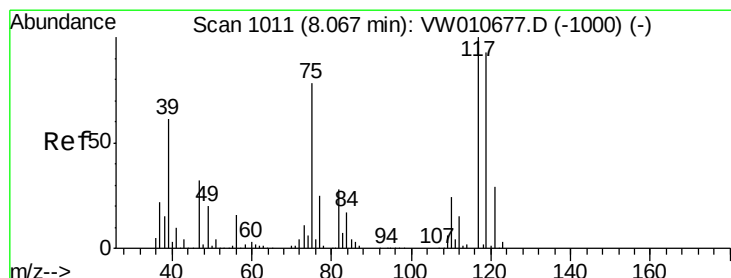
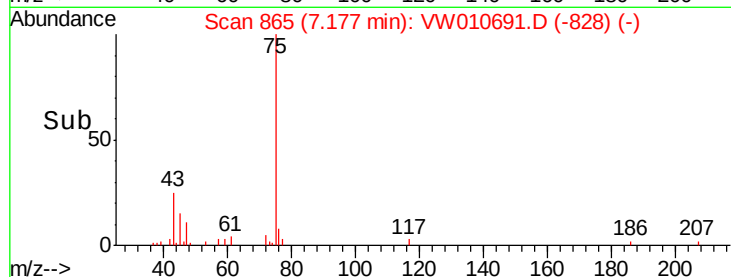
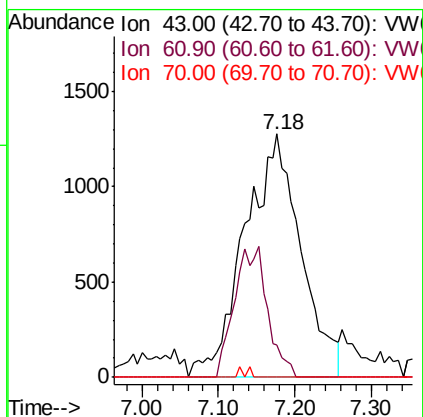
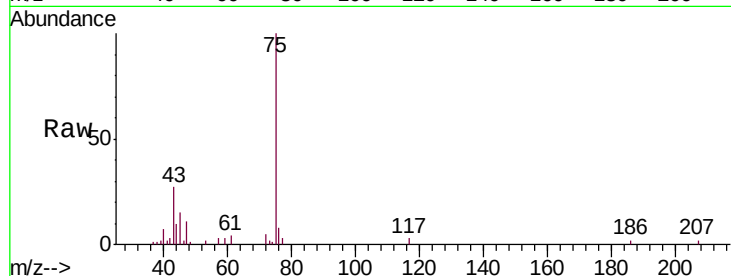
Tgt Ion: 43 Resp: 6491

Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 7.2 10.8#



#38

Carbon Tetrachloride

Concen: 6.538 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

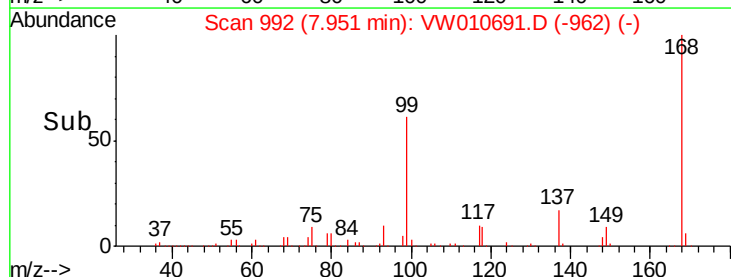
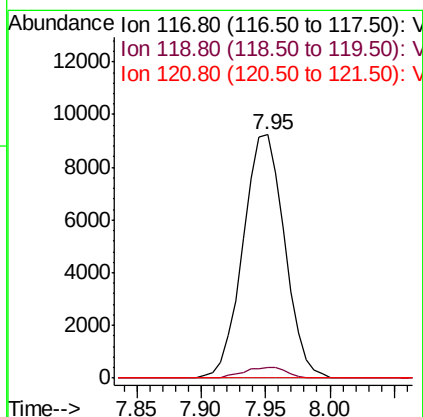
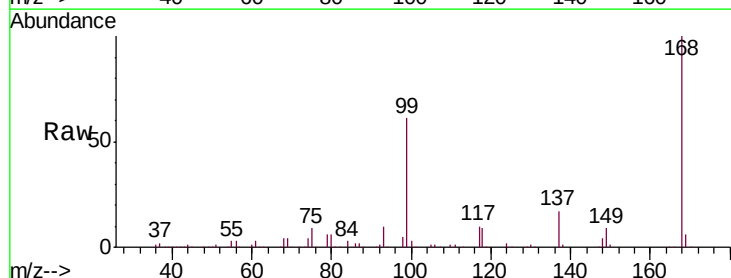
Tgt Ion: 117 Resp: 20628

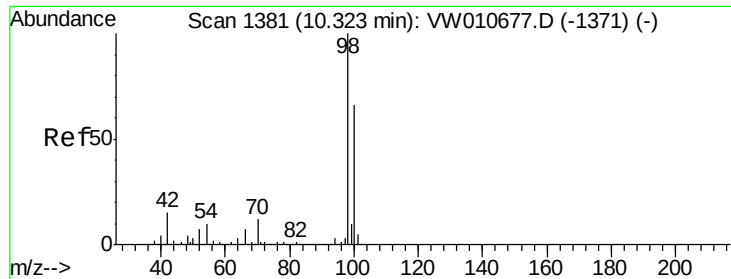
Ion Ratio Lower Upper

117 100

119 4.1 74.2 111.4#

121 0.0 22.9 34.3#

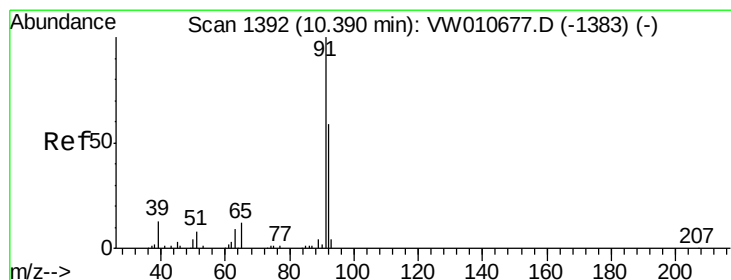
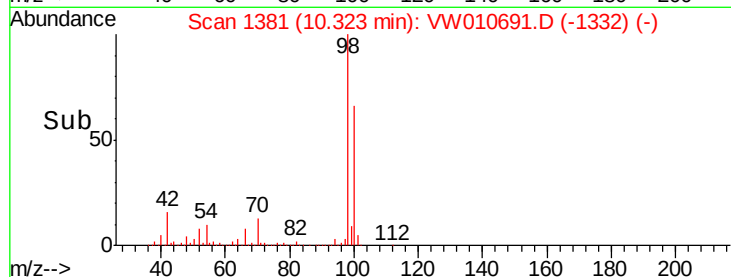
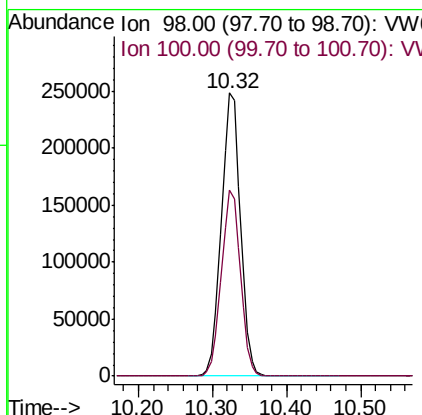
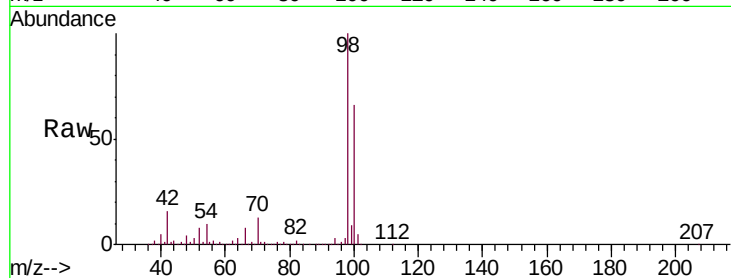




#50
Toluene-d8
Concen: 52.155 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010691.D
Acq: 05 Jun 2019 14:43

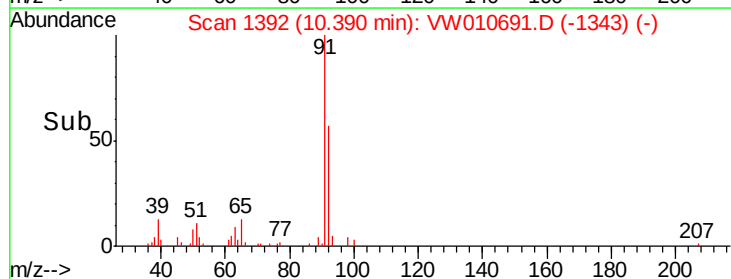
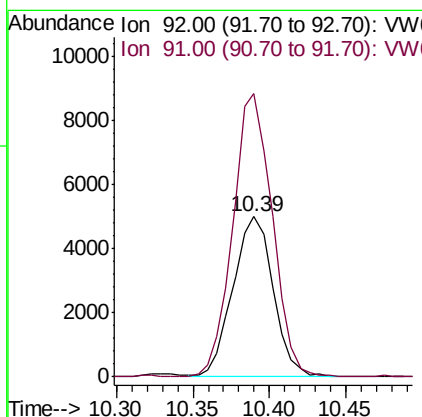
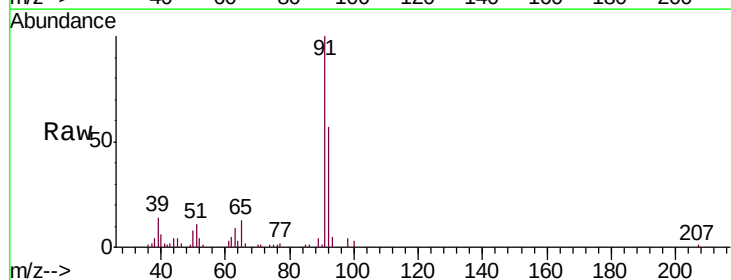
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-A

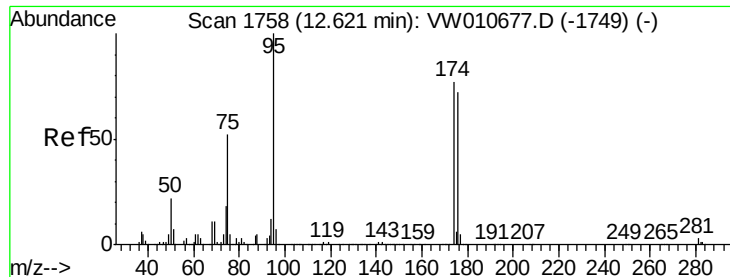
Tgt Ion: 98 Resp: 443257
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.6



#52
Toluene
Concen: 1.493 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW010691.D
Acq: 05 Jun 2019 14:43

Tgt Ion: 92 Resp: 9159
Ion Ratio Lower Upper
92 100
91 172.8 134.9 202.3





#62

4-Bromofluorobenzene

Concen: 43.443 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-A

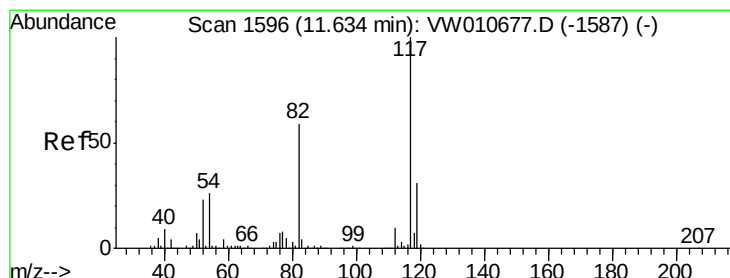
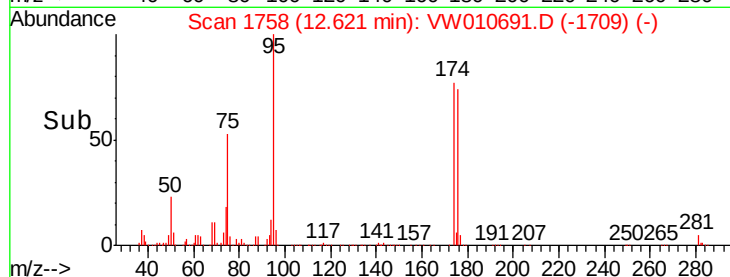
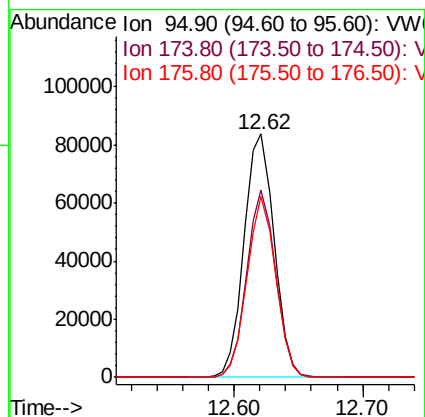
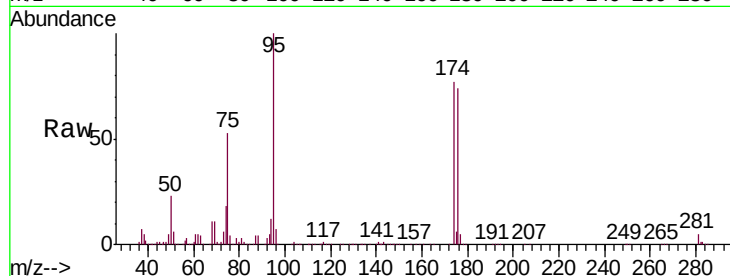
Tgt Ion: 95 Resp: 134350

Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.4

176 71.4 0.0 144.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

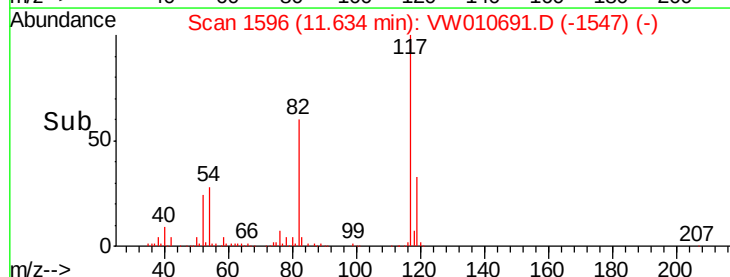
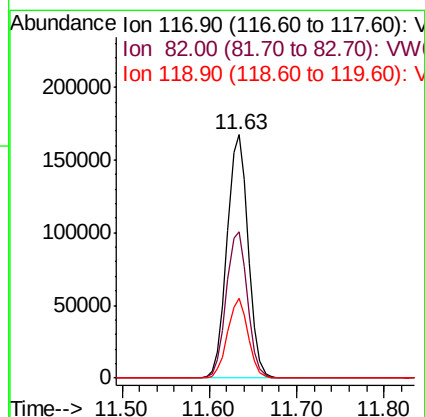
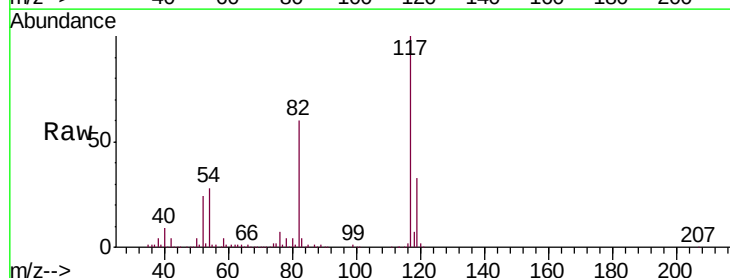
Tgt Ion: 117 Resp: 280143

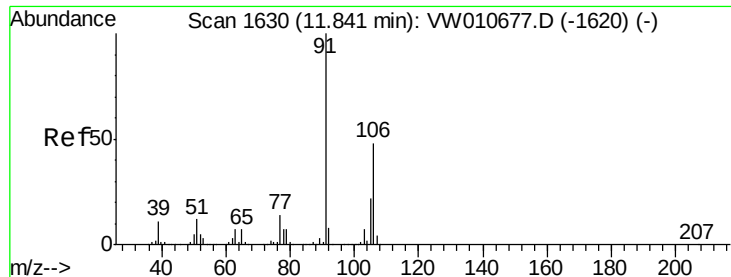
Ion Ratio Lower Upper

117 100

82 60.3 47.0 70.4

119 32.6 25.1 37.7





#68

m/p-Xylenes

Concen: 2.606 ug/l

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

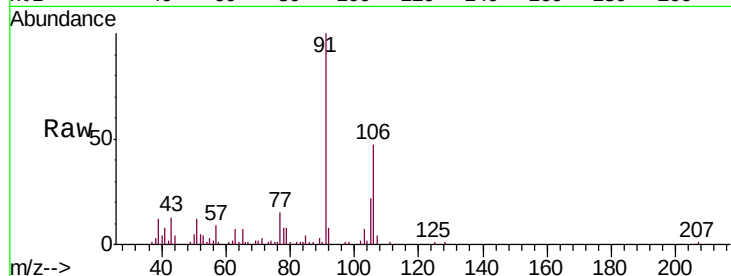
FK-SF-03-008-A

Tgt Ion:106 Resp: 9876

Ion Ratio Lower Upper

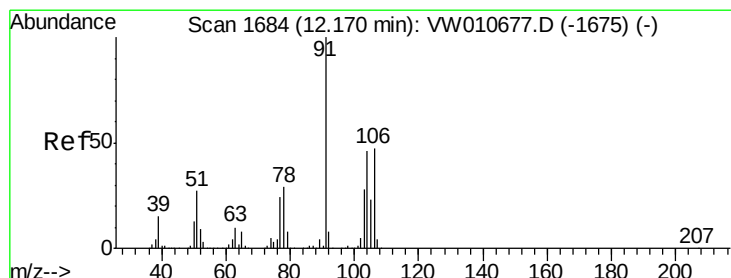
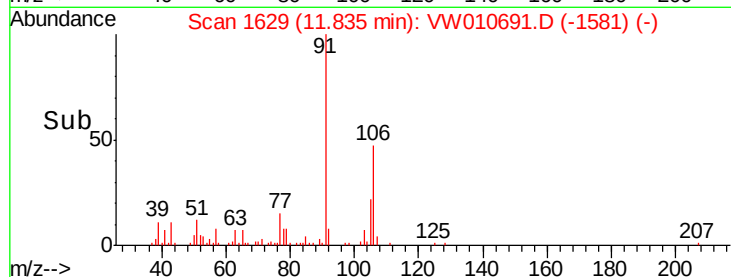
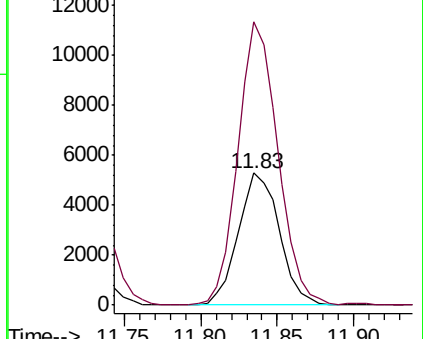
106 100

91 208.1 166.5 249.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#69

o-Xylene

Concen: 1.533 ug/l

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW010691.D

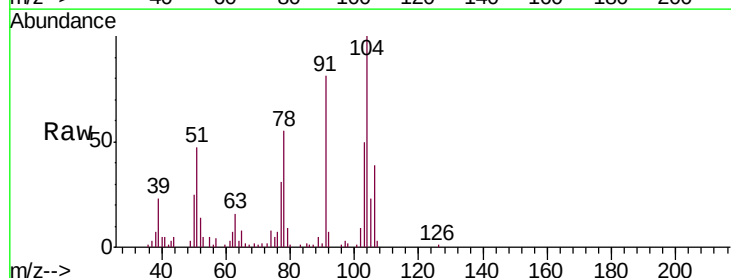
Acq: 05 Jun 2019 14:43

Tgt Ion:106 Resp: 5512

Ion Ratio Lower Upper

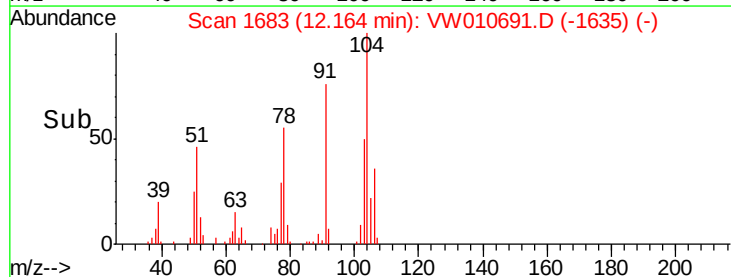
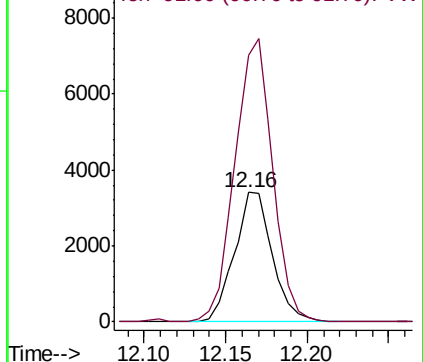
106 100

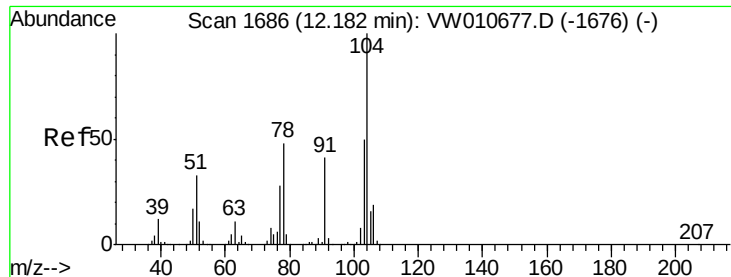
91 218.1 108.9 326.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#70

Styrene

Concen: 9.991 ug/l

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-A

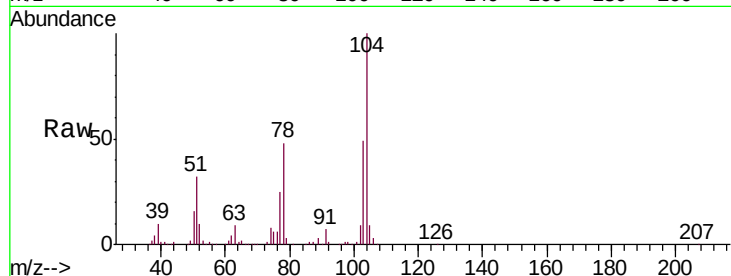
Tgt Ion:104 Resp: 62387

Ion Ratio Lower Upper

104 100

78 47.3 42.7 64.1

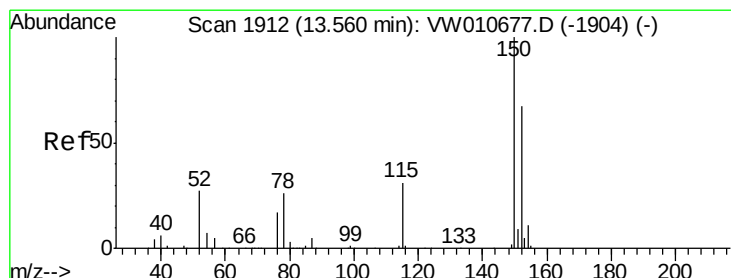
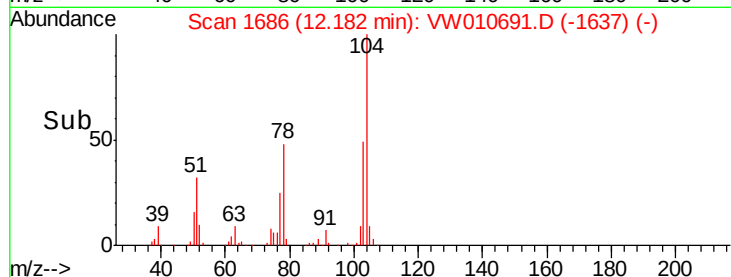
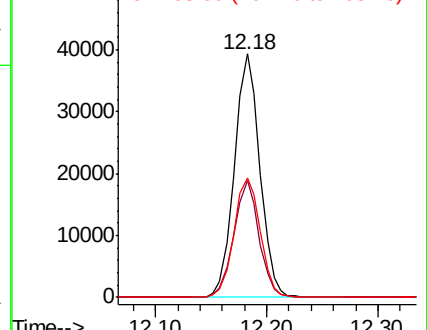
103 50.5 43.6 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

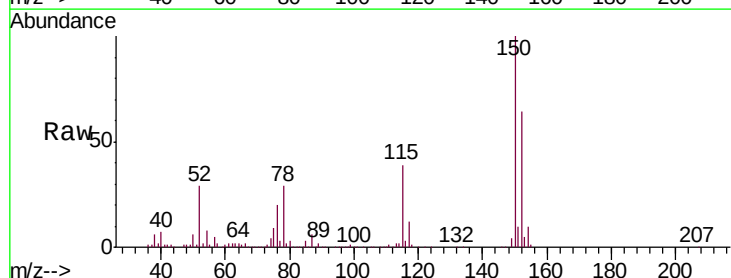
Tgt Ion:152 Resp: 95951

Ion Ratio Lower Upper

152 100

115 60.5 29.8 89.3

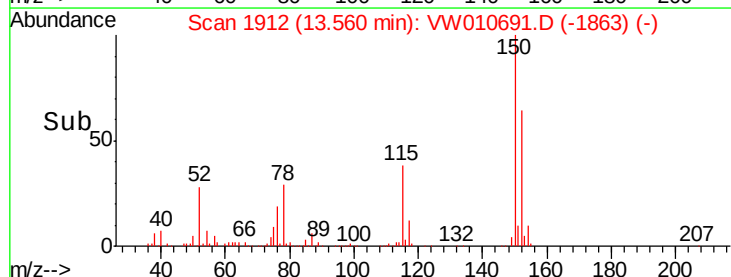
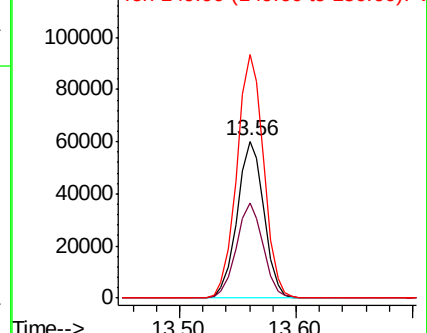
150 156.1 0.0 345.0

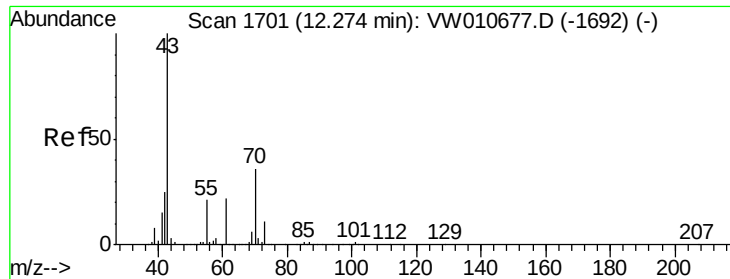


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 1.738 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.03 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-A

Tgt Ion: 43 Resp: 4049

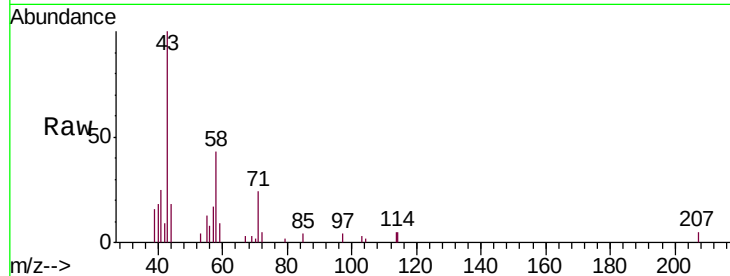
Ion Ratio Lower Upper

43 100

70 3.1 29.2 43.8#

55 11.5 17.5 26.3#

61 0.0 17.4 26.2#

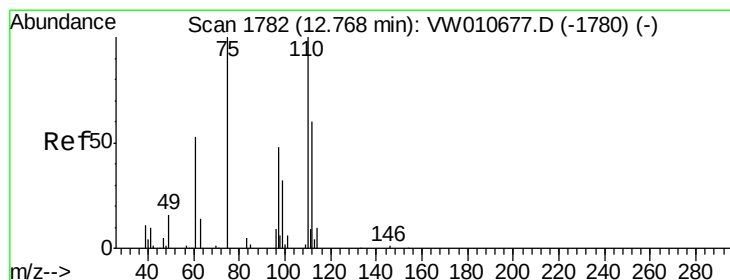
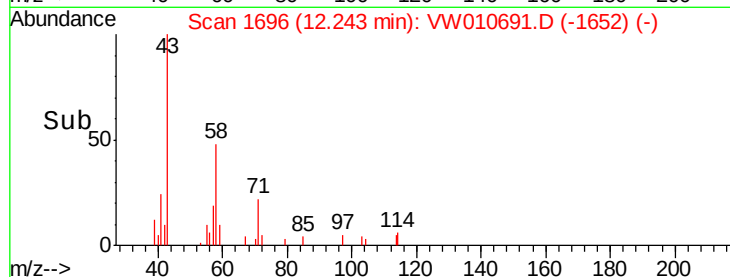
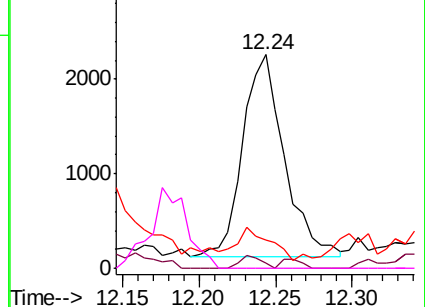


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 71.920 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010691.D

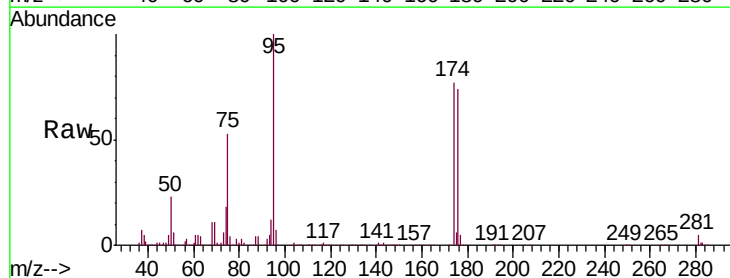
Acq: 05 Jun 2019 14:43

Tgt Ion: 75 Resp: 72468

Ion Ratio Lower Upper

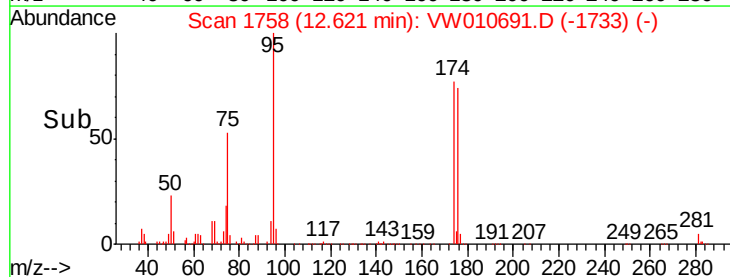
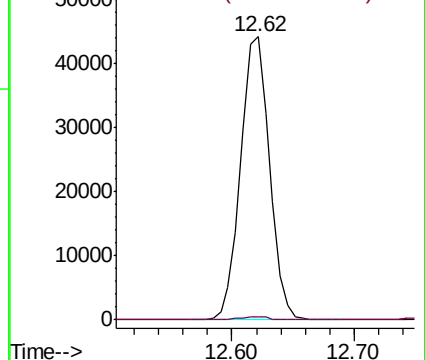
75 100

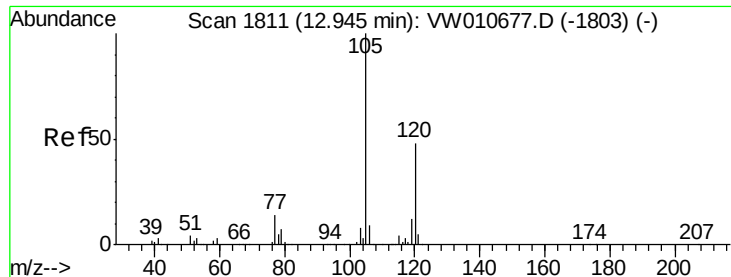
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

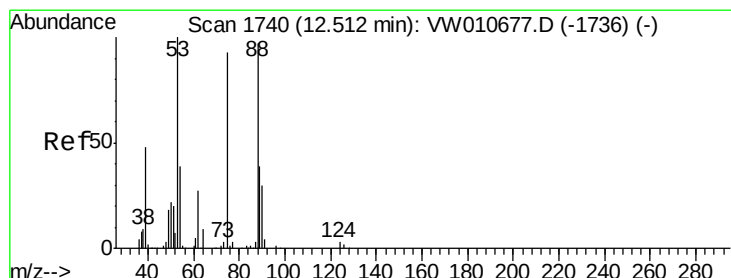
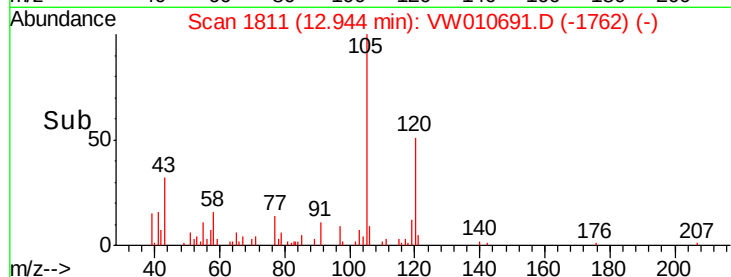
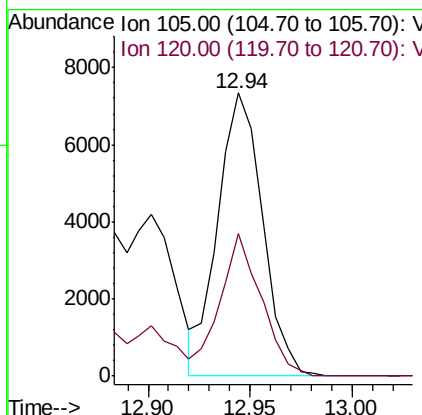
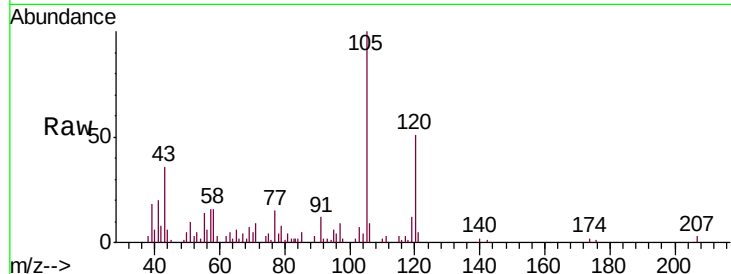




#80
 1,3,5-Trimethylbenzene
 Concen: 1.887 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

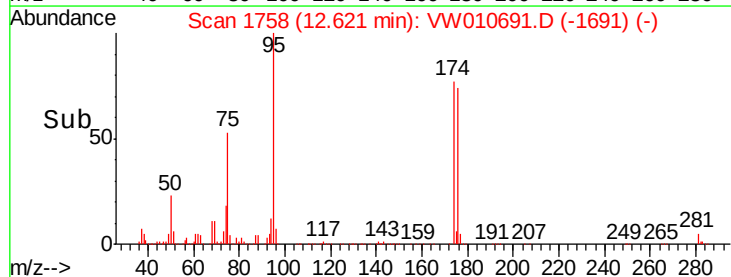
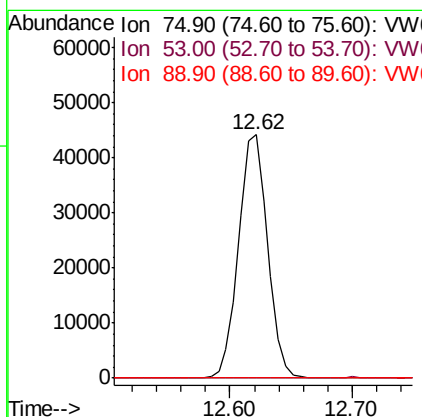
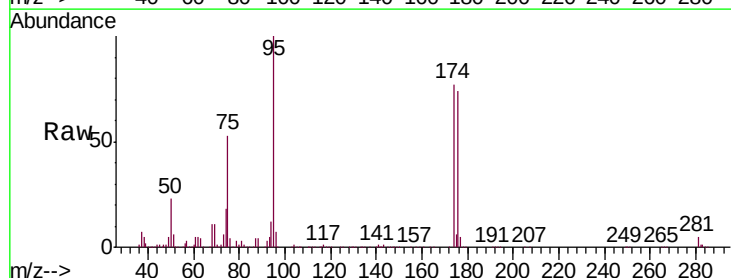
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-SF-03-008-A

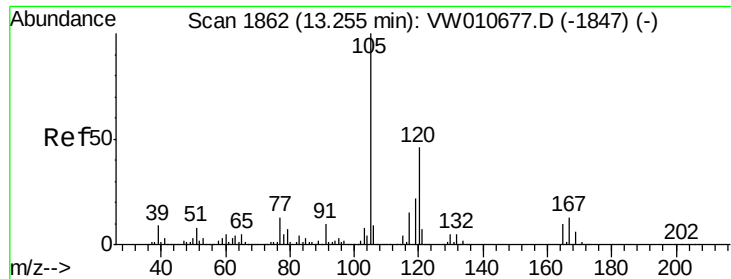
Tgt Ion:105 Resp: 11139
 Ion Ratio Lower Upper
 105 100
 120 46.7 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 165.296 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

Tgt Ion: 75 Resp: 72468
 Ion Ratio Lower Upper
 75 100
 53 0.1 90.1 135.1#
 89 0.1 34.6 52.0#

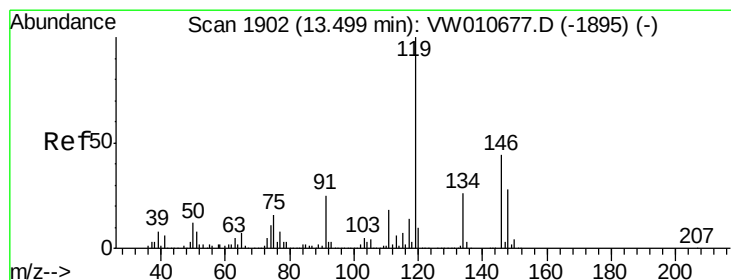
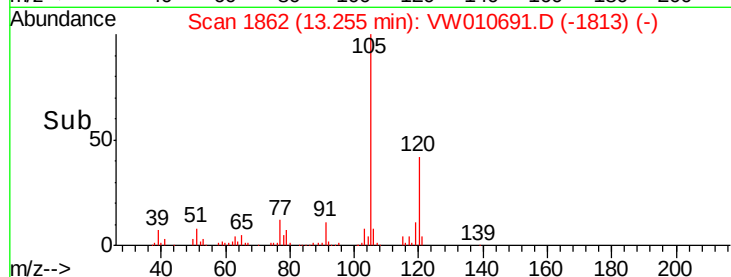
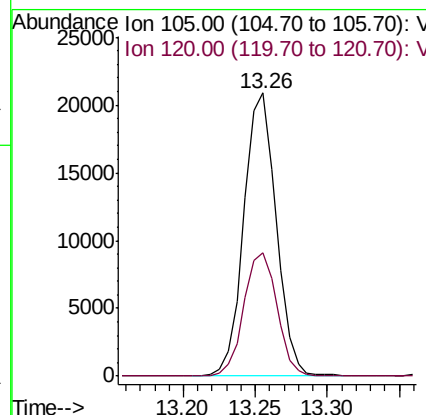
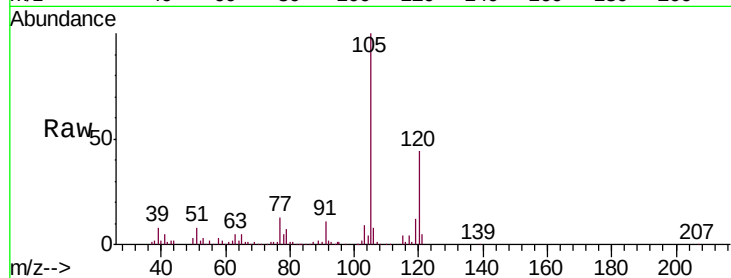




#84
 1,2,4-Trimethylbenzene
 Concen: 5.476 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

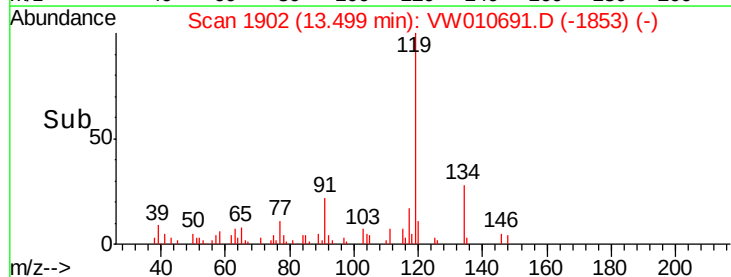
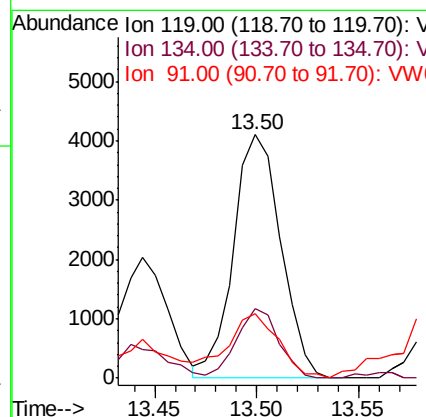
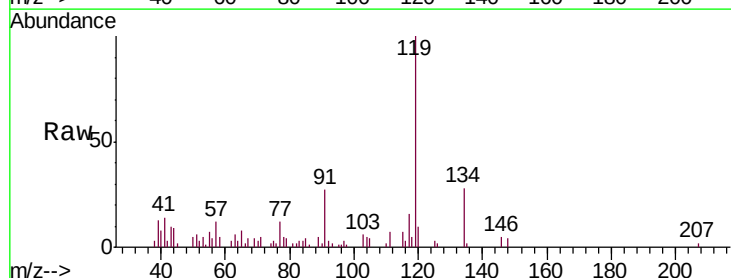
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-SF-03-008-A

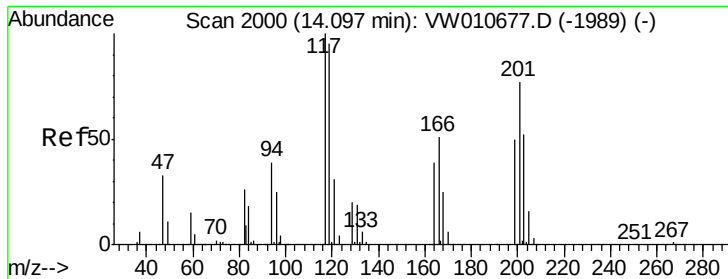
Tgt Ion:105 Resp: 32522
 Ion Ratio Lower Upper
 105 100
 120 44.5 22.5 67.5



#86
 p-Isopropyltoluene
 Concen: 1.015 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010691.D
 Acq: 05 Jun 2019 14:43

Tgt Ion:119 Resp: 6618
 Ion Ratio Lower Upper
 119 100
 134 25.3 13.0 39.0
 91 28.8 12.2 36.4





#90

Hexachloroethane

Concen: 1.153 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampled :

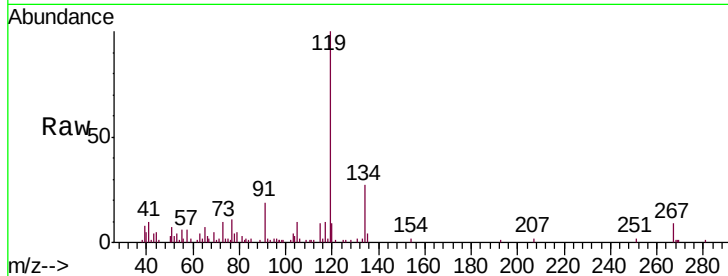
FK-SF-03-008-A

Tgt Ion:117 Resp: 1347

Ion Ratio Lower Upper

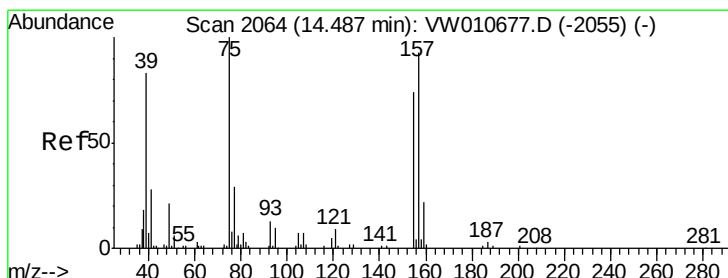
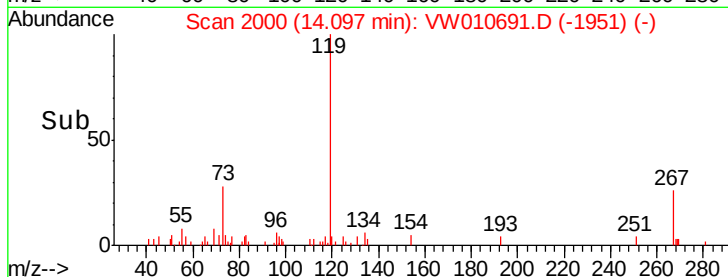
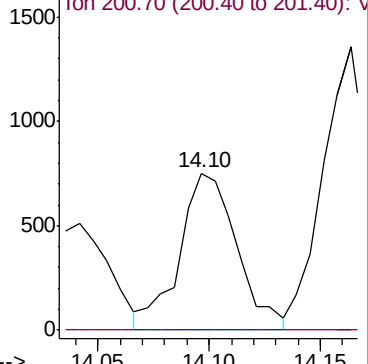
117 100

201 0.0 38.8 116.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.731 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

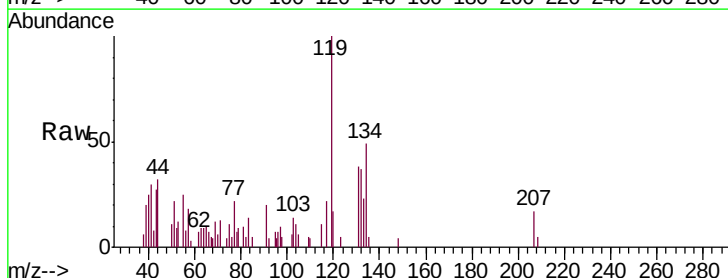
Tgt Ion: 75 Resp: 408

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.4#

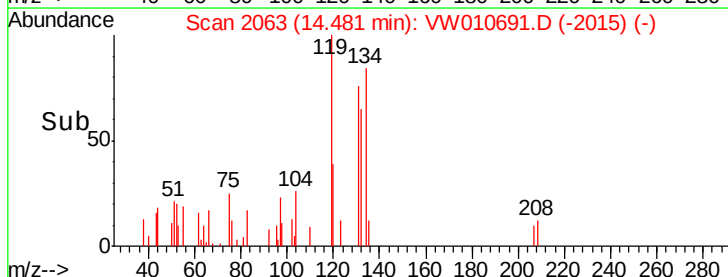
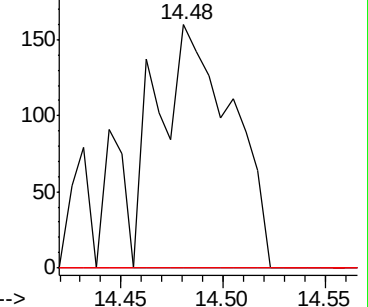
157 0.0 48.4 145.0#

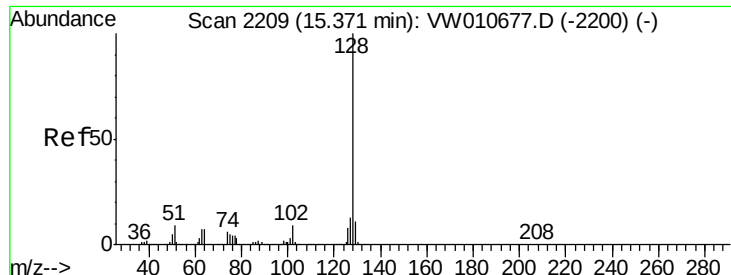


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 61.060 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010691.D

Acq: 05 Jun 2019 14:43

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-A

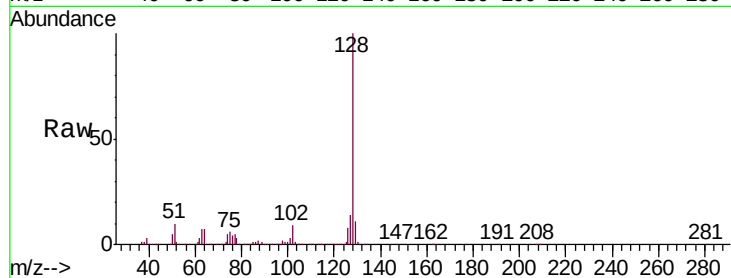
Tgt Ion:128 Resp: 212499

Ion Ratio Lower Upper

128 100

127 13.4 10.6 15.8

129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

