

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072419\
 Data File : VW011447.D
 Acq On : 23 Jul 2019 22:41
 Operator : SY/VA
 Sample : K3840-02
 Misc : 4.63G/5ML/MSVOA W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 FK-SF-02-005-A

Quant Time: Jul 24 06:40:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 11 08:14:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	228190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	392403	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	297767	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	91071	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	156728	54.66	ug/l	0.00
Spiked Amount			Recovery	=	109.32%	
35) Dibromofluoromethane	7.88	113	99795	42.67	ug/l	0.00
Spiked Amount			Recovery	=	85.34%	
50) Toluene-d8	10.32	98	462571	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	12.62	95	129029	37.23	ug/l	0.00
Spiked Amount			Recovery	=	74.46%	

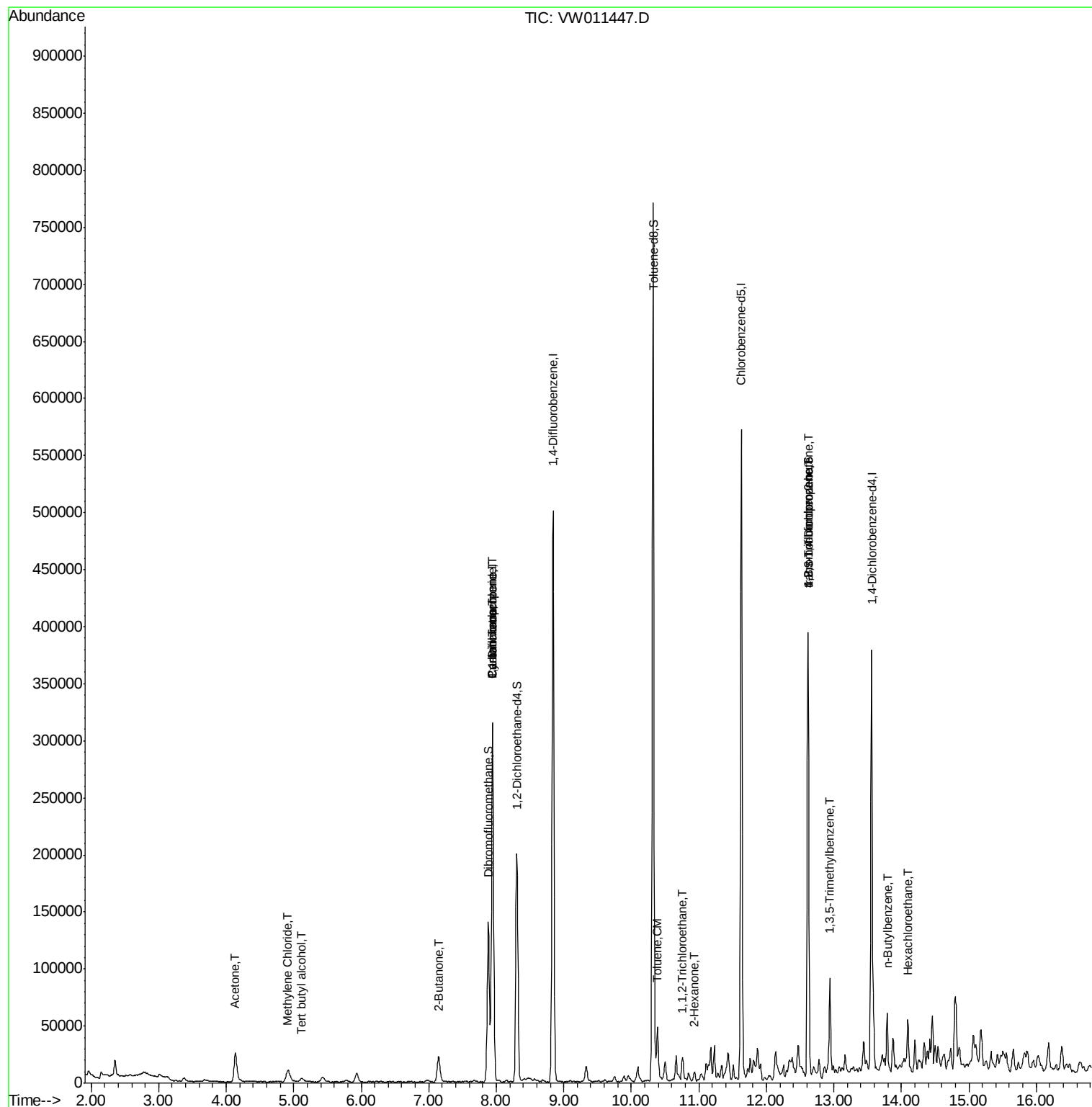
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	2992	14.094	ug/l #	70
16) Acetone	4.14	43	51523	74.681	ug/l	99
18) Methyl Acetate	4.68	43	185	Below Cal	#	57
20) Methylene Chloride	4.91	84	8048	2.957	ug/l	95
25) 2-Butanone	7.14	43	1599	1.477	ug/l #	90
31) Cyclohexane	7.95	56	7387	1.330	ug/l #	19
36) 1,1-Dichloropropene	7.94	75	20036	4.795	ug/l #	51
38) Carbon Tetrachloride	7.95	117	22603	6.381	ug/l #	15
52) Toluene	10.39	92	16742	2.390	ug/l	99
55) 1,1,2-Trichloroethane	10.76	97	6910	3.316	ug/l #	20
59) 2-Hexanone	10.93	43	4363	2.541	ug/l #	31
76) 1,2,3-Trichloropropane	12.62	75	68409	65.000	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	34085	5.893	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	68409	147.018	ug/l #	6
89) n-Butylbenzene	13.79	91	6419	1.031	ug/l #	1
90) Hexachloroethane	14.10	117	2145	1.880	ug/l #	11

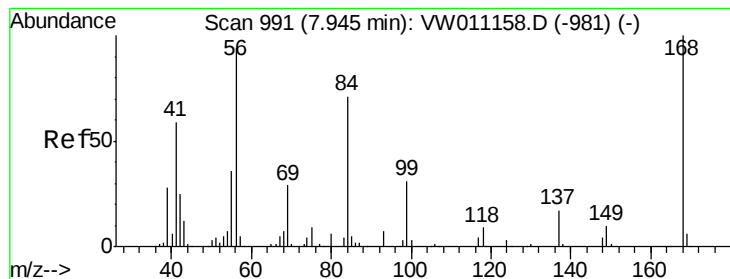
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

Instrument :

MSVOA_W

ClientSampleId :

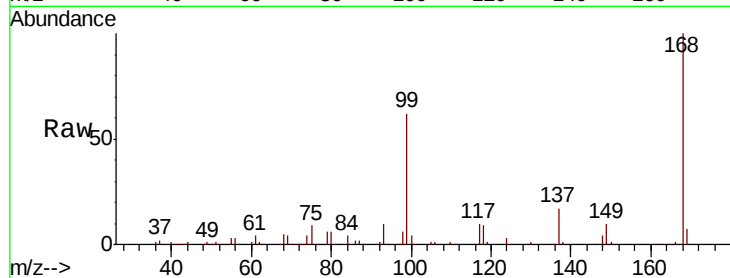
FK-SF-02-005-A

Tot Ion:168 Resp: 228190

Ion Ratio Lower Upper

168 100

99 61.7 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

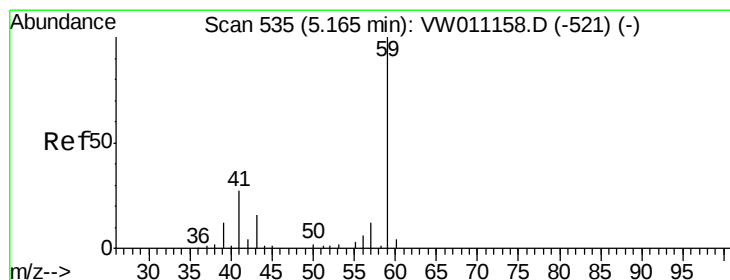
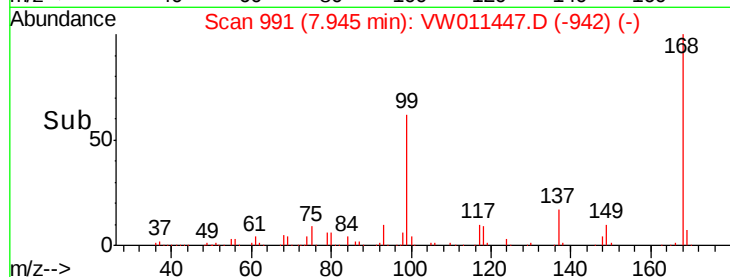
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 14.094 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011447.D

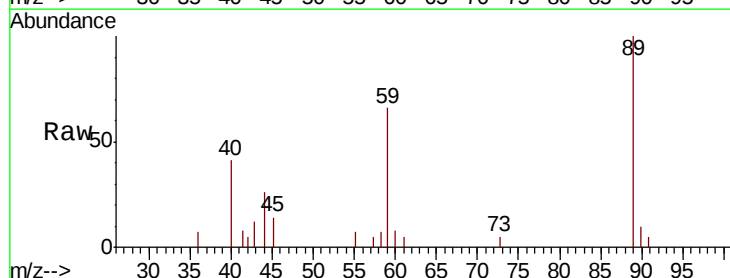
Acq: 23 Jul 2019 22:41

Tgt Ion: 59 Resp: 2992

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

800

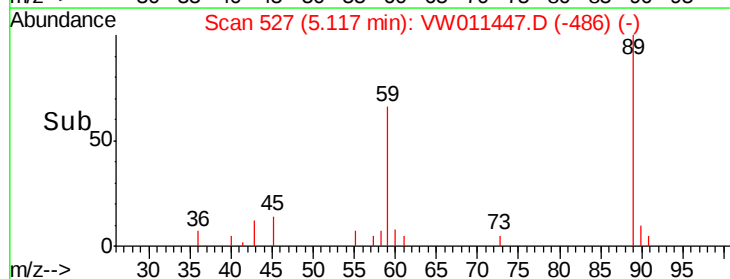
600

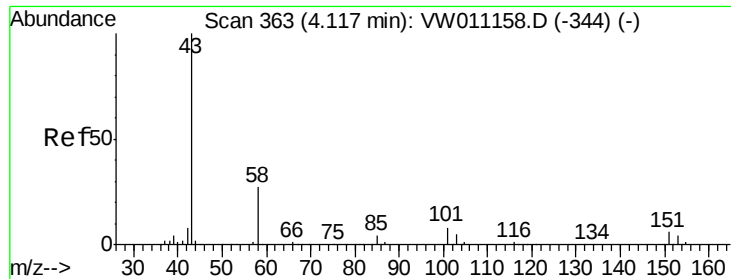
400

200

0

Time--> 5.00 5.05 5.10 5.15 5.20





#16

Acetone

Concen: 74.681 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

Instrument :

MSVOA_W

ClientSampleId :

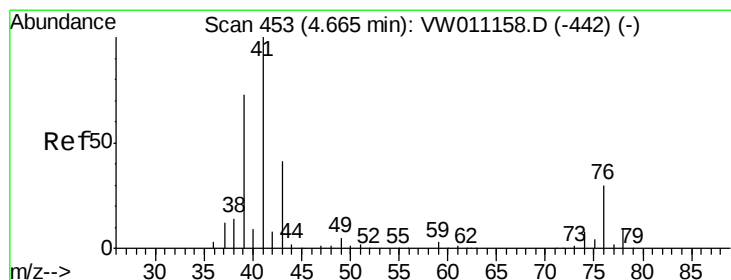
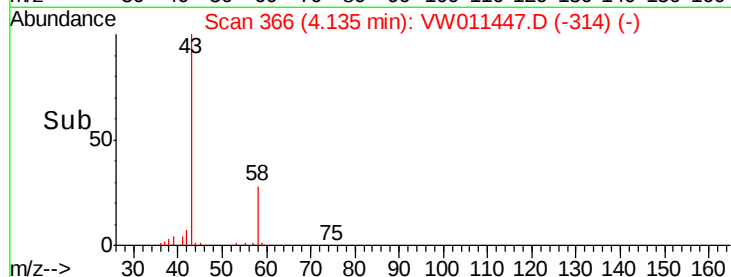
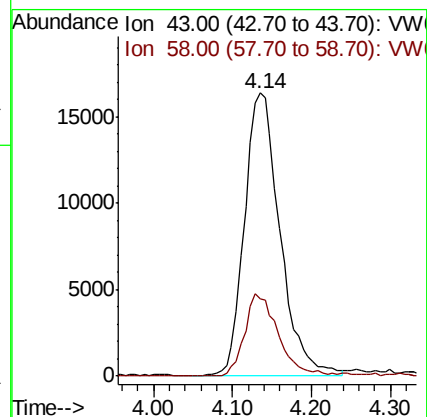
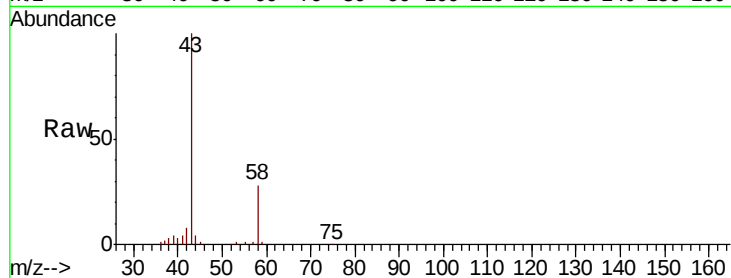
FK-SF-02-005-A

Tot Ion: 43 Resp: 51523

Ion Ratio Lower Upper

43 100

58 27.5 21.8 32.6



#18

Methyl Acetate

Concen: Below Cal

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW011447.D

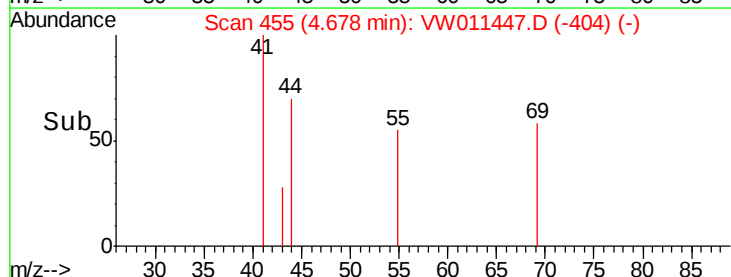
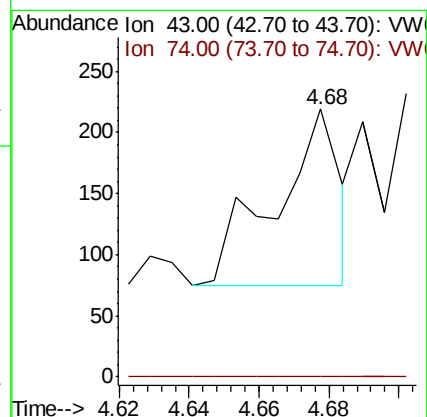
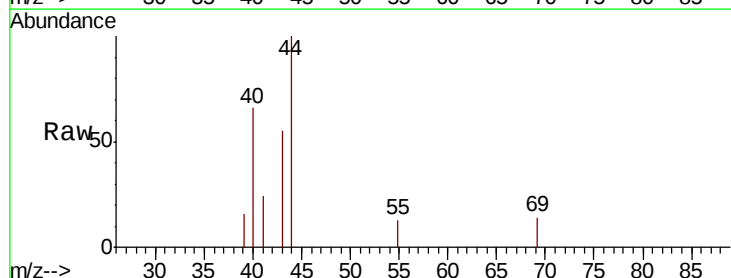
Acq: 23 Jul 2019 22:41

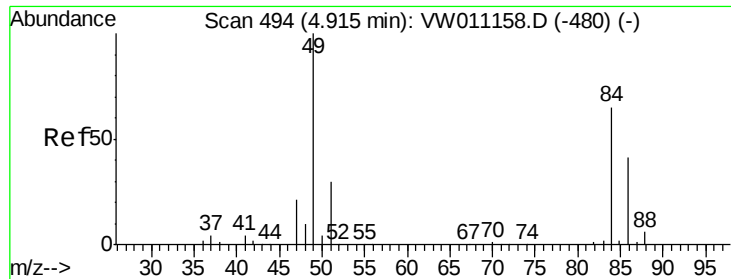
Tgt Ion: 43 Resp: 185

Ion Ratio Lower Upper

43 100

74 0.0 15.7 23.5#

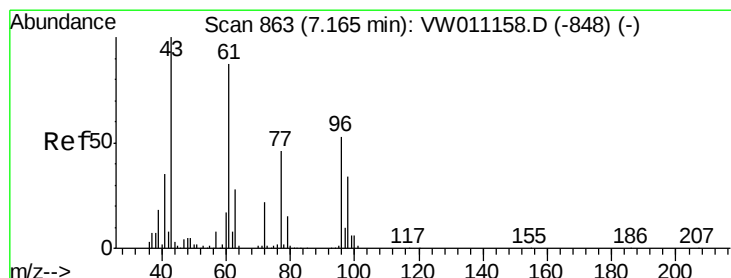
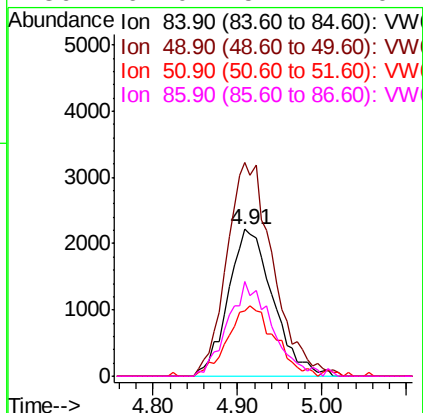
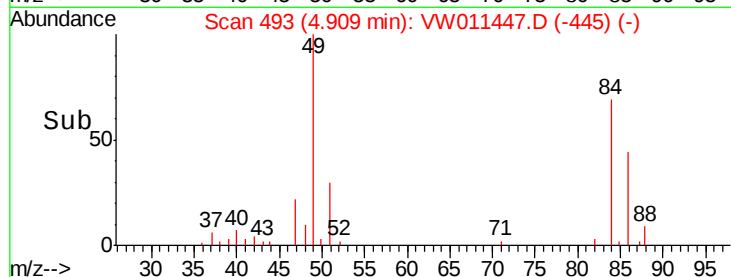
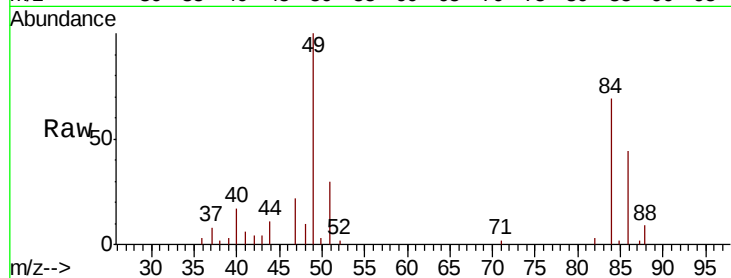




#20
Methvlene Chloride
Concen: 2.957 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

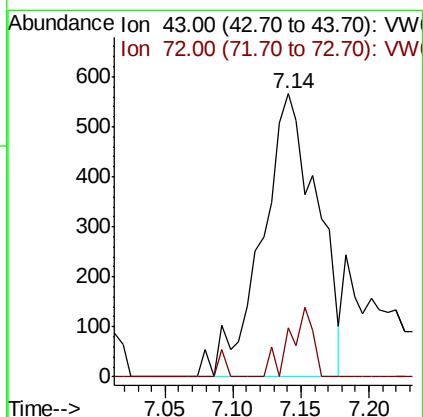
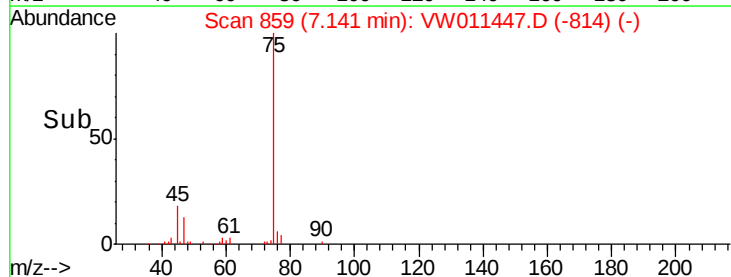
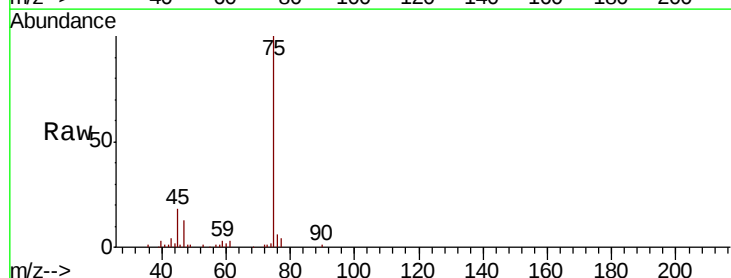
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-02-005-A

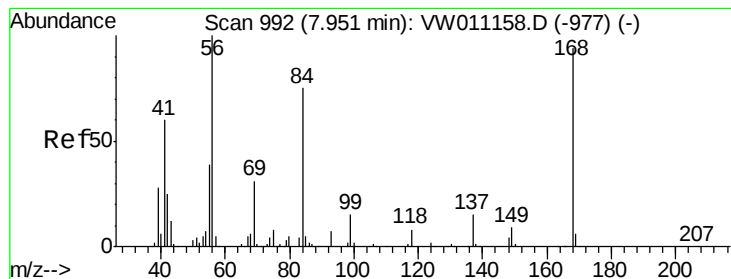
Tot Ion:	84	Resp:	8048
Ion	Ratio	Lower	Upper
84	100		
49	145.2	123.8	185.6
51	44.3	37.4	56.2
86	64.0	51.1	76.7



#25
2-Butanone
Concen: 1.477 ug/l
RT: 7.14 min Scan# 859
Delta R.T. -0.02 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

Tgt Ion:	43	Resp:	1599
Ion	Ratio	Lower	Upper
43	100		
72	17.1	17.6	26.4#





#31

Cyclohexane

Concen: 1.330 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-02-005-A

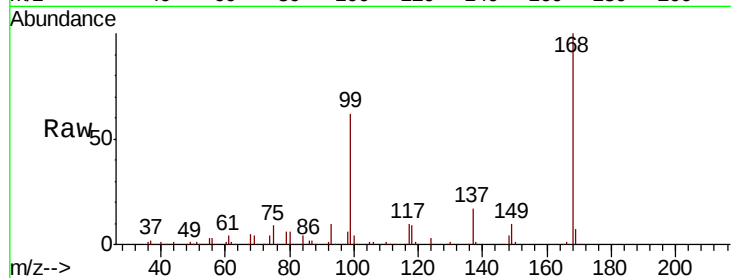
Tot Ion: 56 Resp: 7387

Ion Ratio Lower Upper

56 100

69 135.5 24.6 36.8#

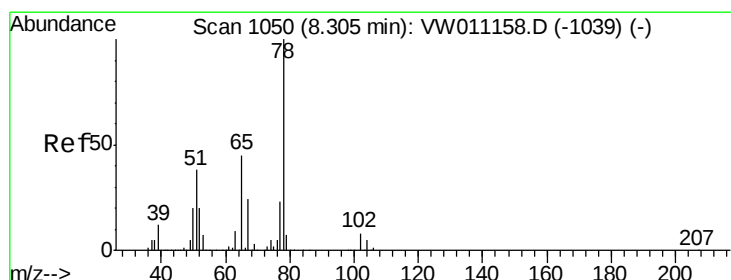
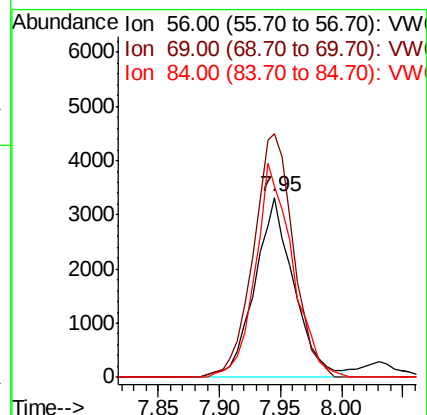
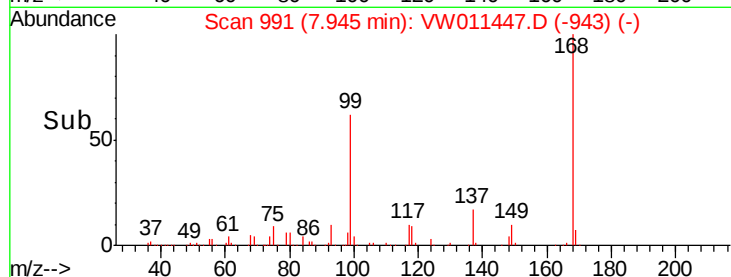
84 106.1 60.1 90.1#



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: 54.661 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011447.D

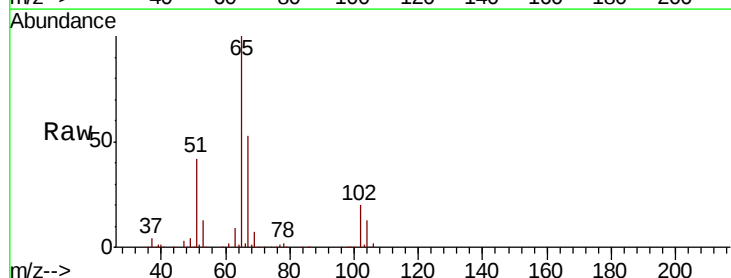
Acq: 23 Jul 2019 22:41

Tgt Ion: 65 Resp: 156728

Ion Ratio Lower Upper

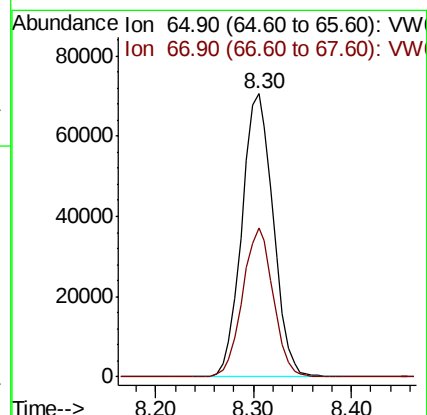
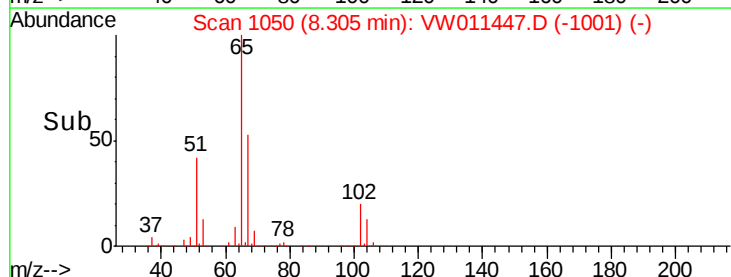
65 100

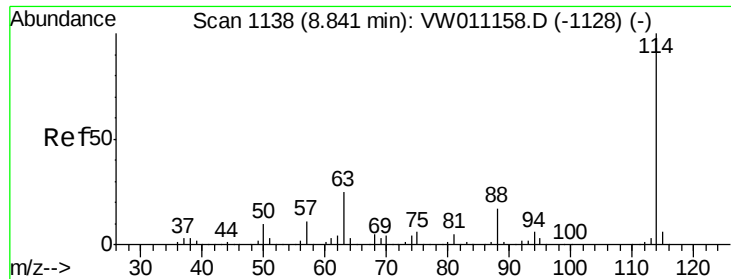
67 51.5 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

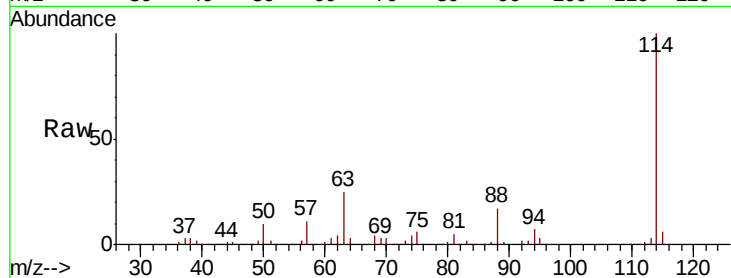




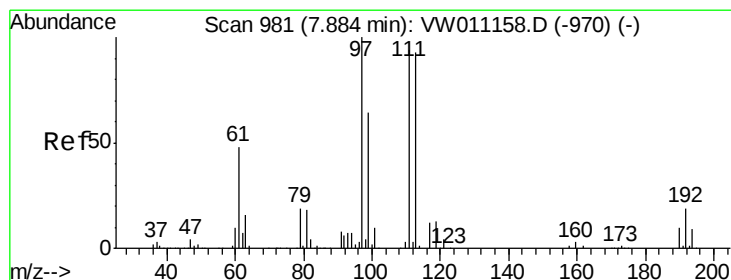
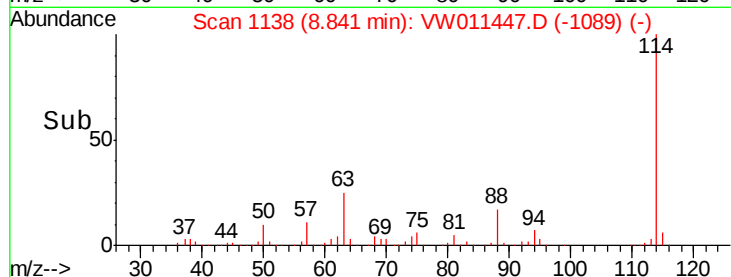
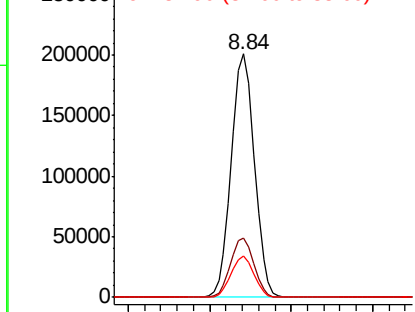
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

Instrument :
MSVOA_W
ClientSampleId :
FK-SF-02-005-A

Tot Ion:114 Resp: 392403
Ion Ratio Lower Upper
114 100
63 24.6 0.0 50.8
88 16.9 0.0 34.2

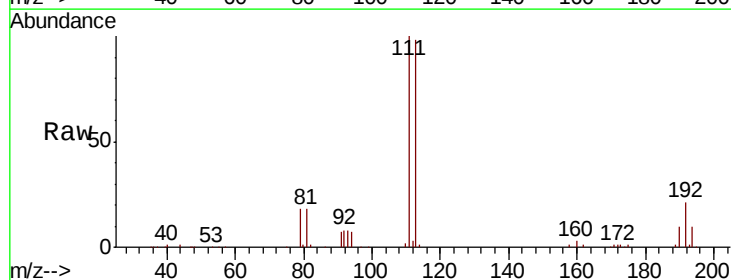


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

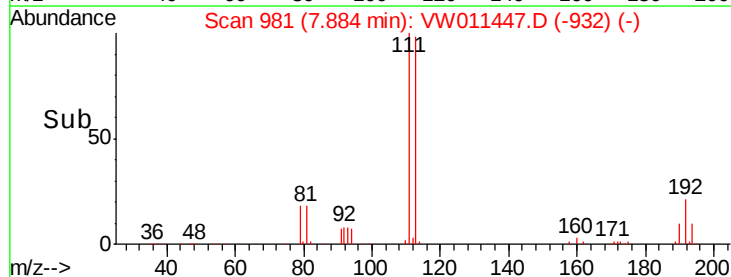
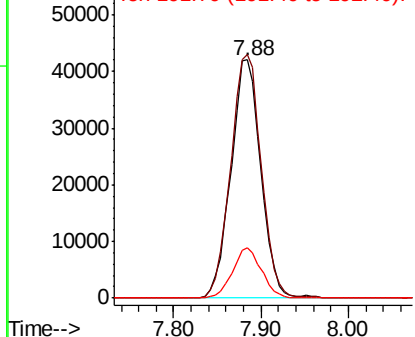


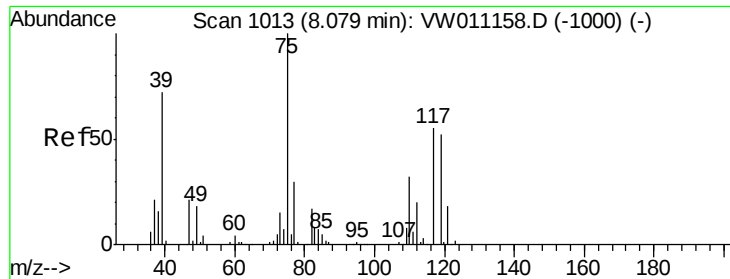
#35
Dibromofluoromethane
Concen: 42.668 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

Tgt Ion:113 Resp: 99795
Ion Ratio Lower Upper
113 100
111 104.7 82.4 123.6
192 20.5 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

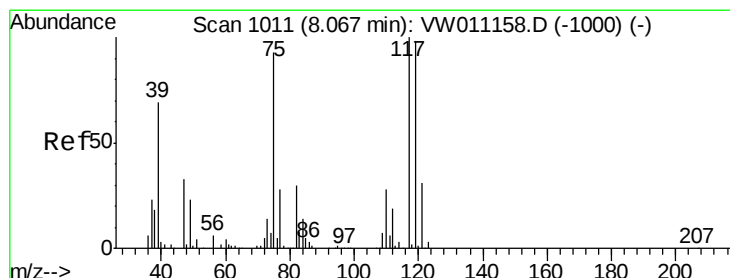
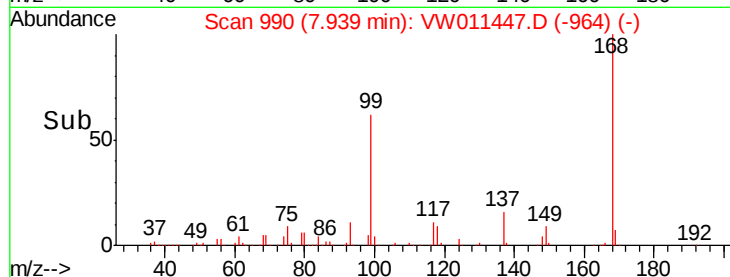
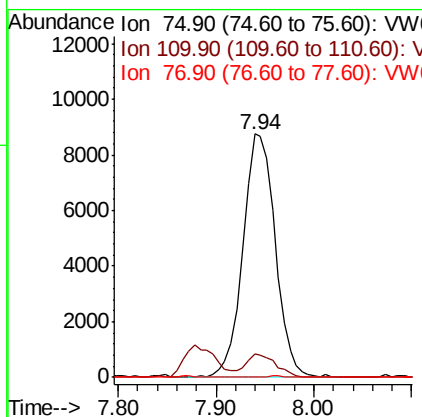
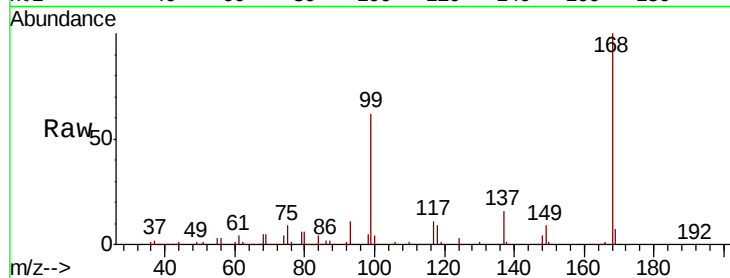




#36
 1,1-Dichloropropene
 Concen: 4.795 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW011447.D
 Acq: 23 Jul 2019 22:41

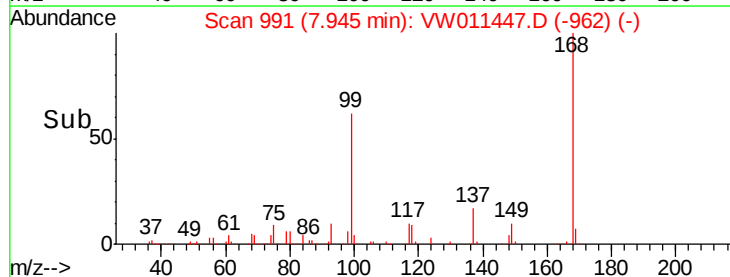
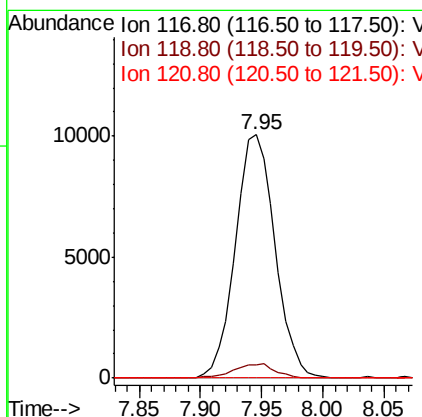
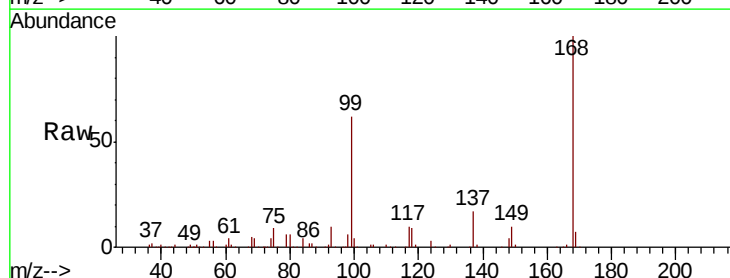
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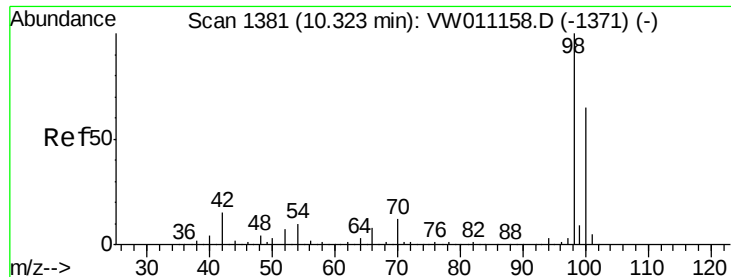
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	15.9	47.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.381 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW011447.D
 Acq: 23 Jul 2019 22:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.1	117.1#
121	0.0	25.1	37.7#





#50

Toluene-d8

Concen: 48.928 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

Instrument :

MSVOA_W

ClientSampleId :

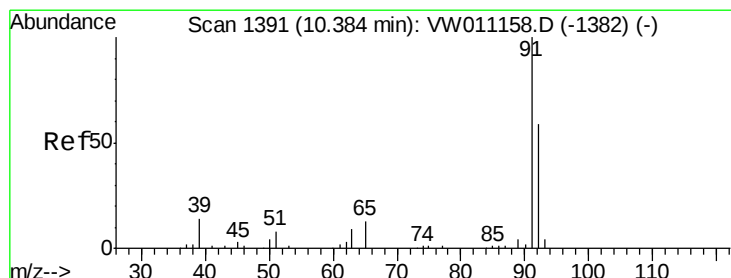
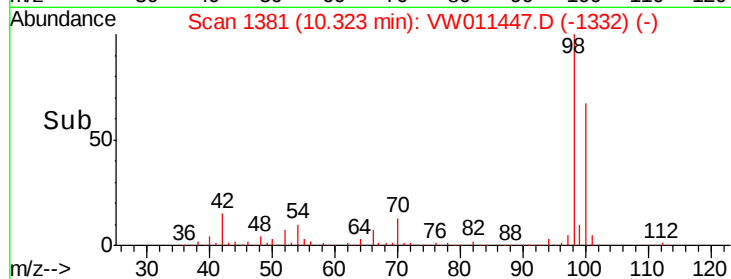
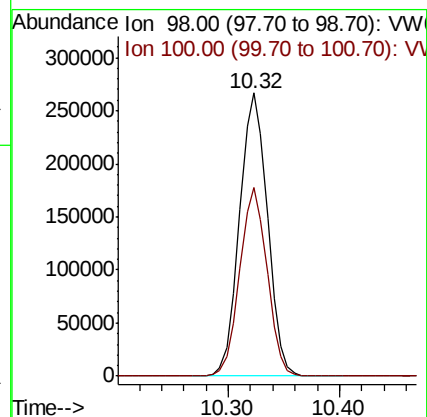
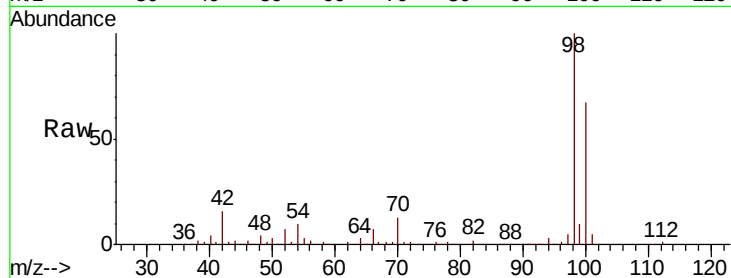
FK-SF-02-005-A

Tot Ion: 98 Resp: 462571

Ion Ratio Lower Upper

98 100

100 65.2 52.4 78.6



#52

Toluene

Concen: 2.390 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW011447.D

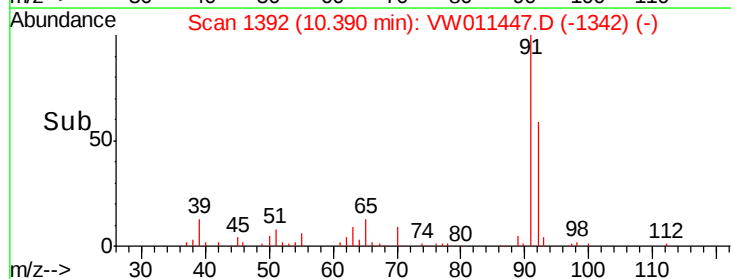
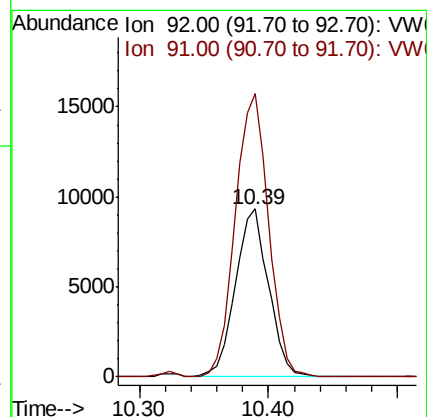
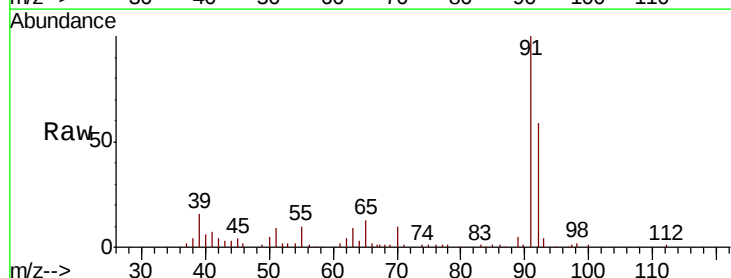
Acq: 23 Jul 2019 22:41

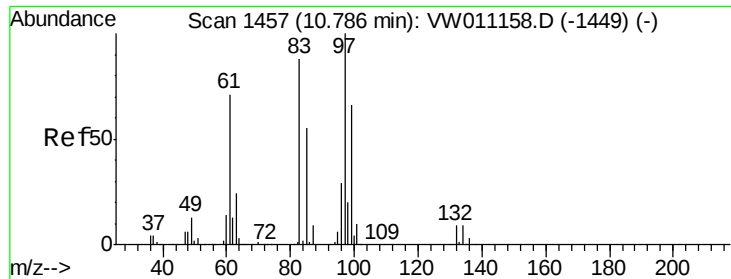
Tgt Ion: 92 Resp: 16742

Ion Ratio Lower Upper

92 100

91 169.2 136.6 205.0





#55

1,1,2-Trichloroethane

Concen: 3.316 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-02-005-A

Tot Ion: 97 Resp: 6910

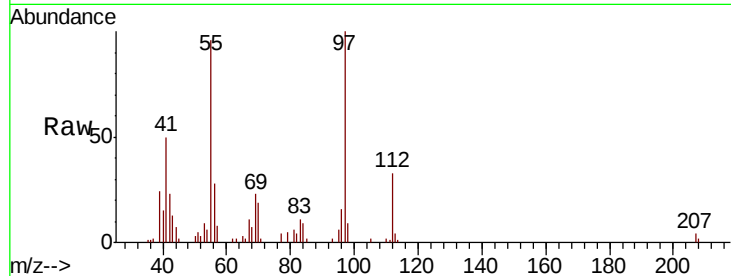
Ion Ratio Lower Upper

97 100

83 11.2 70.2 105.4#

85 1.7 44.2 66.2#

99 0.0 52.6 79.0#

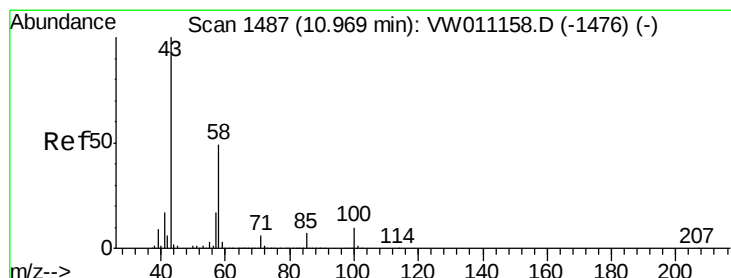
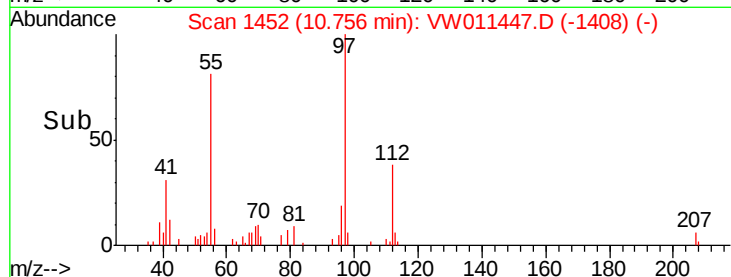
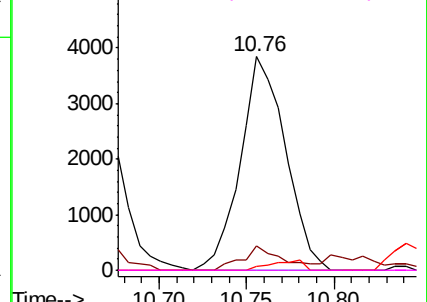


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#59

2-Hexanone

Concen: 2.541 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW011447.D

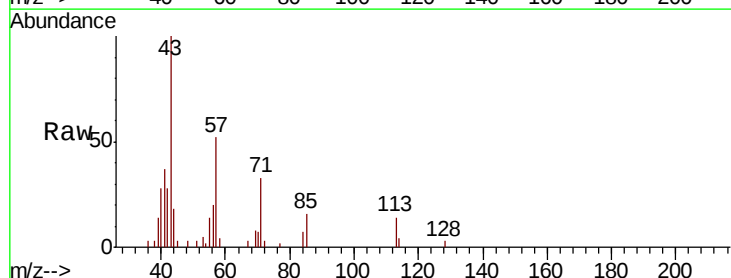
Acq: 23 Jul 2019 22:41

Tgt Ion: 43 Resp: 4363

Ion Ratio Lower Upper

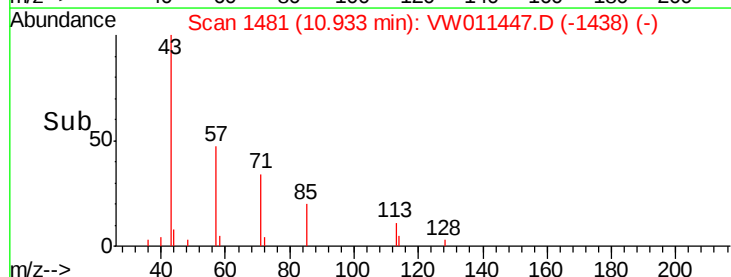
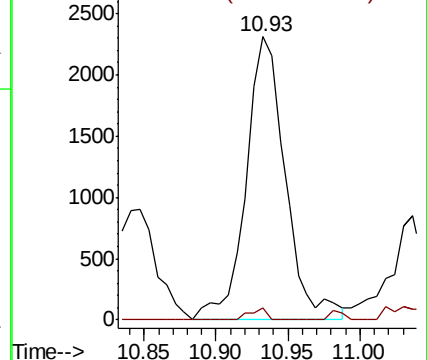
43 100

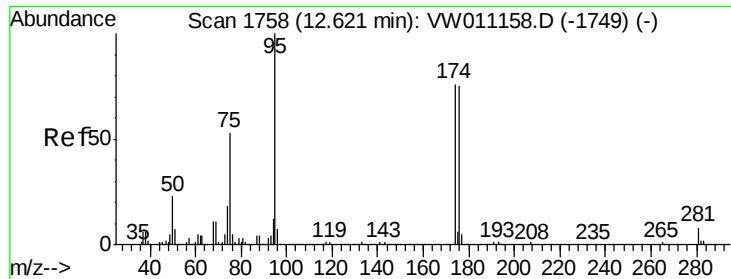
58 1.7 24.4 73.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

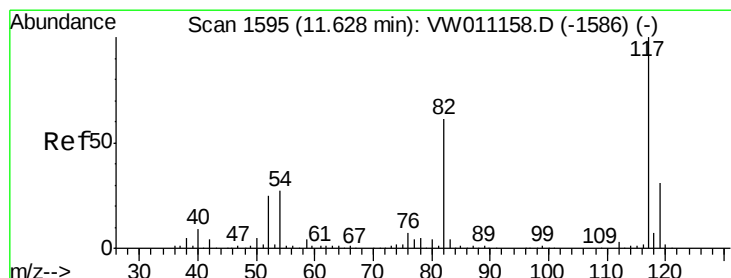
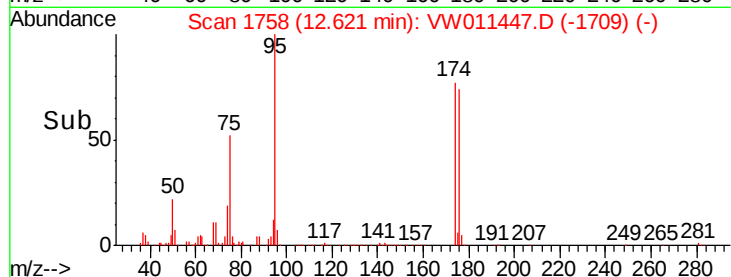
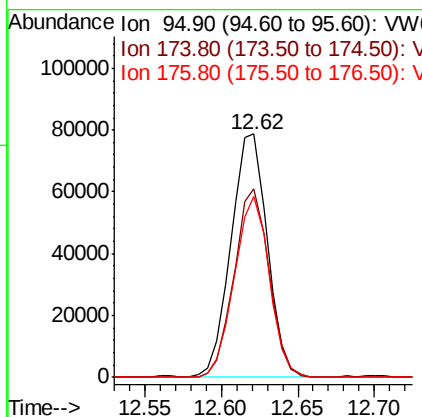
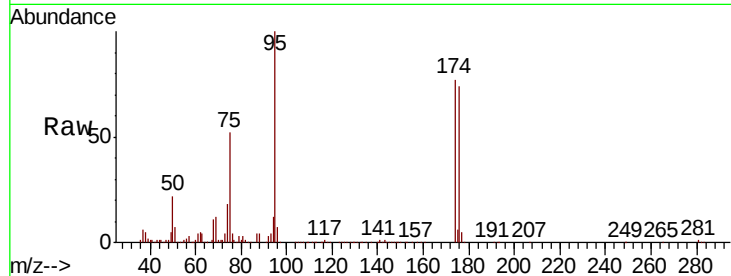




#62
4-Bromofluorobenzene
Concen: 37.235 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

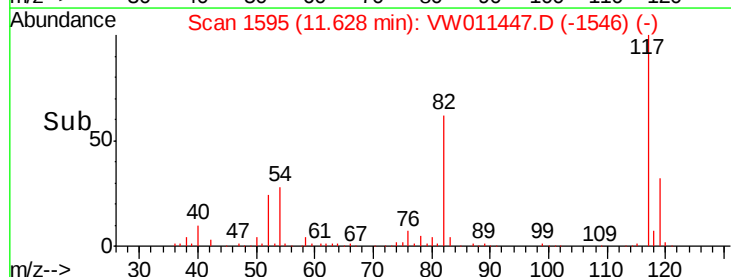
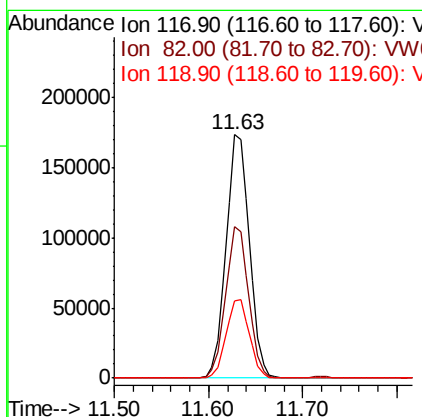
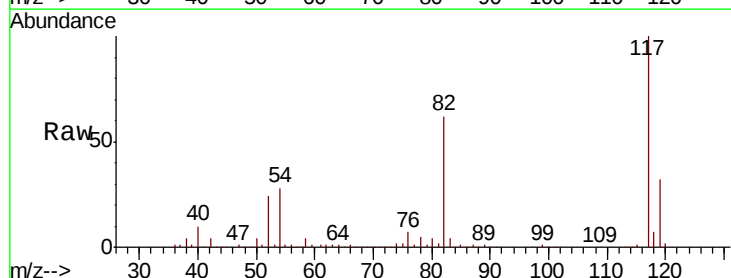
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-02-005-A

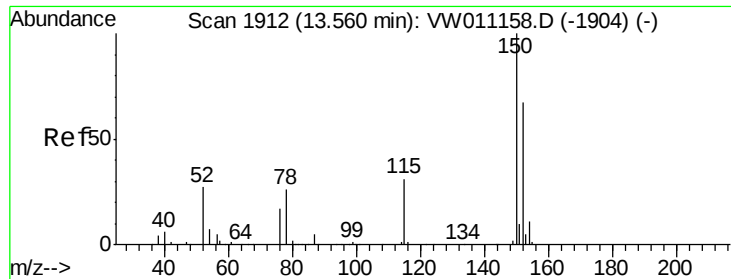
Tot Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	147.6
176	72.1	0.0	144.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

Tgt Ion	Ratio	Lower	Upper
117	100		
82	62.3	48.9	73.3
119	31.9	25.0	37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-02-005-A

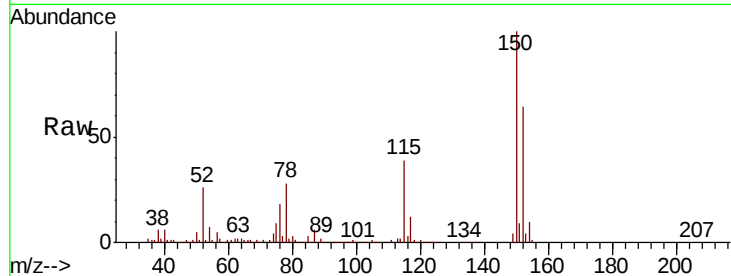
Tot Ion:152 Resp: 91071

Ion Ratio Lower Upper

152 100

115 61.0 30.1 90.3

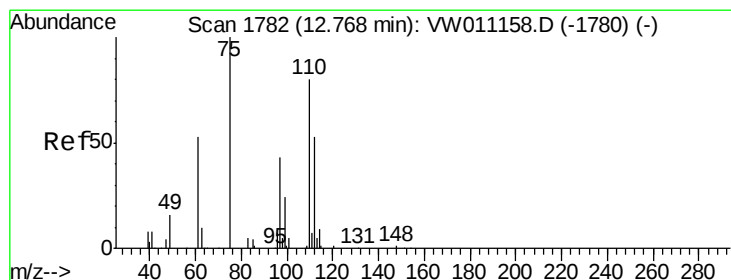
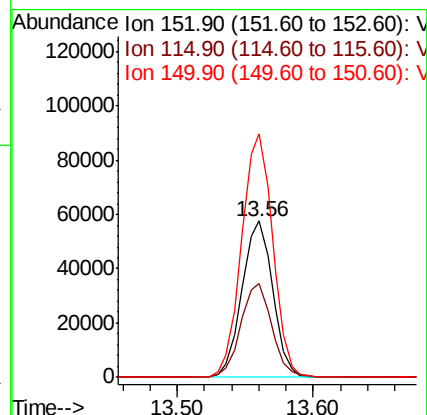
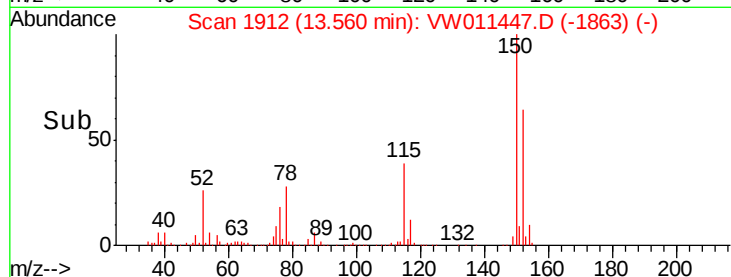
150 157.7 0.0 346.0



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



#76

1,2,3-Trichloropropane

Concen: 65.000 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011447.D

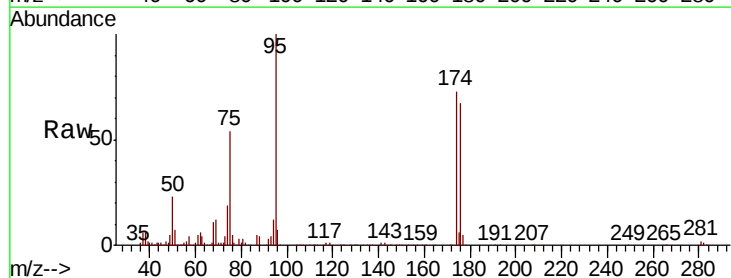
Acq: 23 Jul 2019 22:41

Tgt Ion: 75 Resp: 68409

Ion Ratio Lower Upper

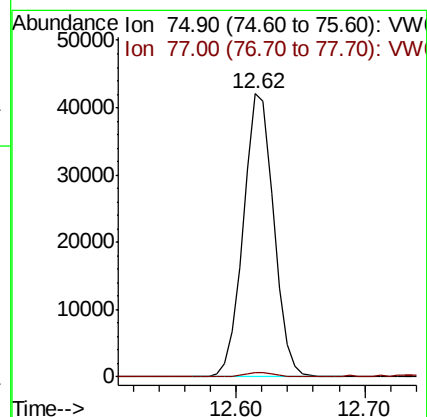
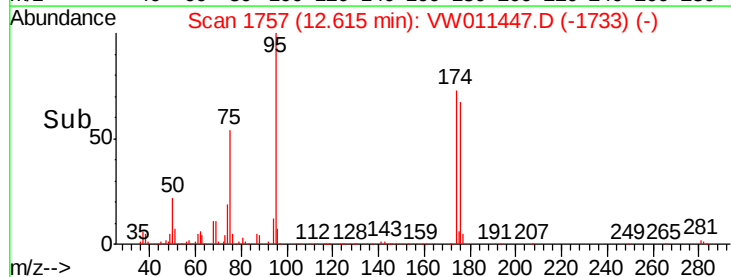
75 100

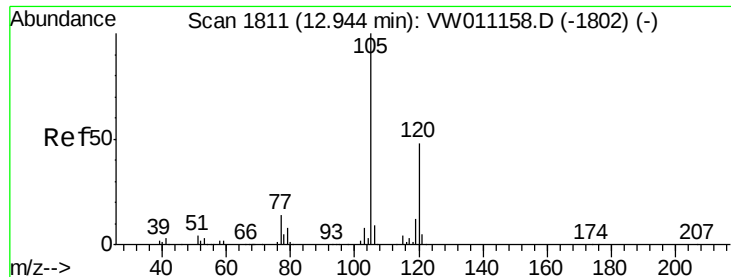
77 1.4 0.0 0.0#



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: 5.893 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

Instrument :

MSVOA_W

ClientSampleId :

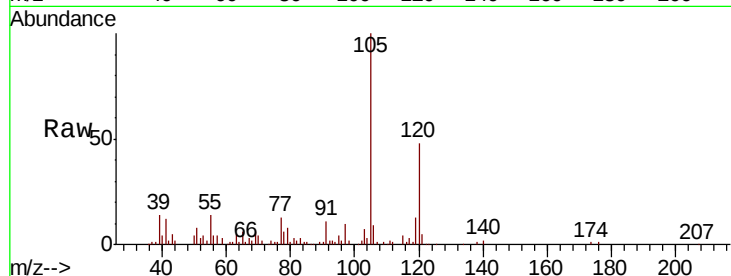
FK-SF-02-005-A

Tot Ion:105 Resp: 34085

Ion Ratio Lower Upper

105 100

120 49.8 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.94

25000

20000

15000

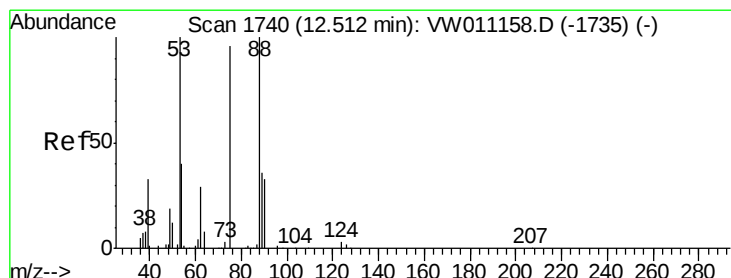
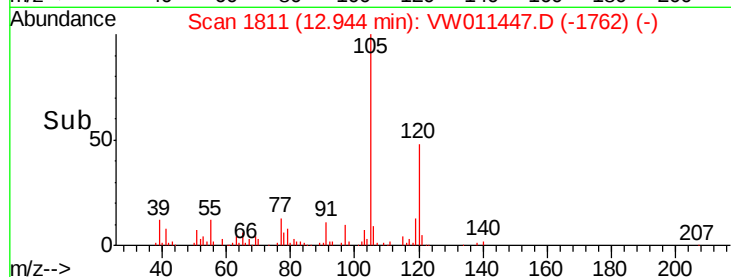
10000

5000

0

12.90 12.95 13.00

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 147.018 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011447.D

Acq: 23 Jul 2019 22:41

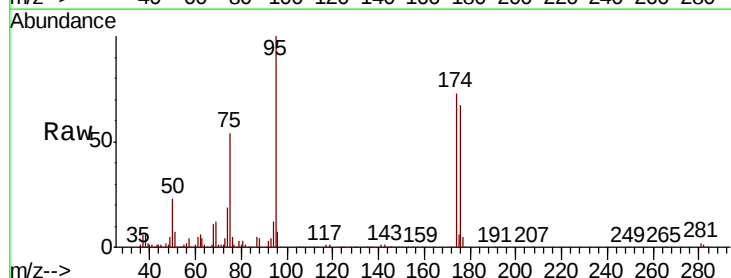
Tgt Ion: 75 Resp: 68409

Ion Ratio Lower Upper

75 100

53 0.2 89.8 134.6#

89 0.0 34.3 51.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

50000

40000

30000

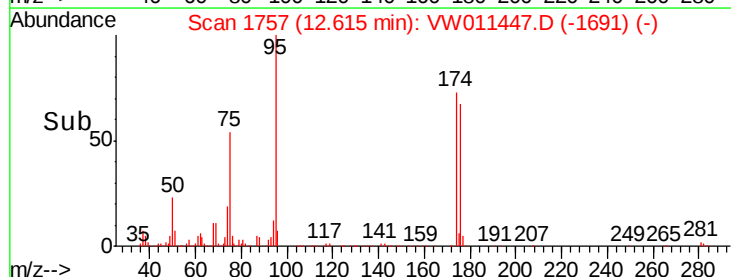
20000

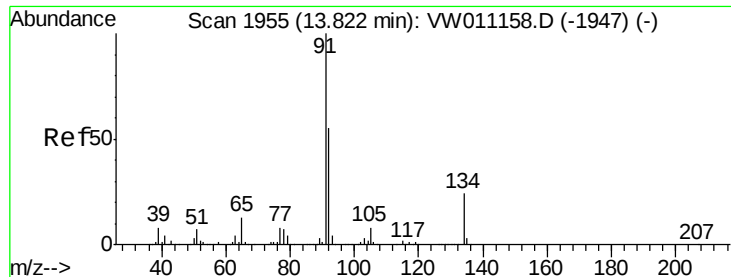
10000

0

12.60 12.70

Time-->

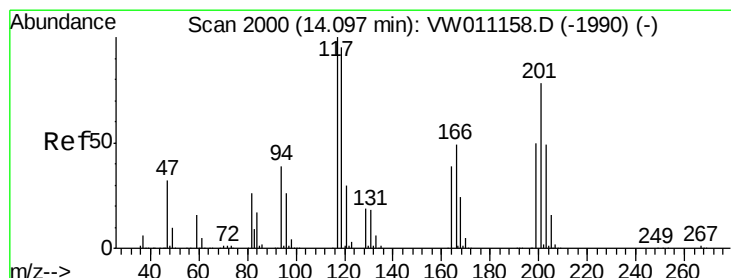
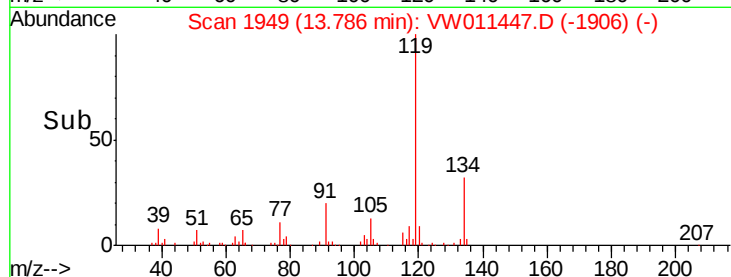
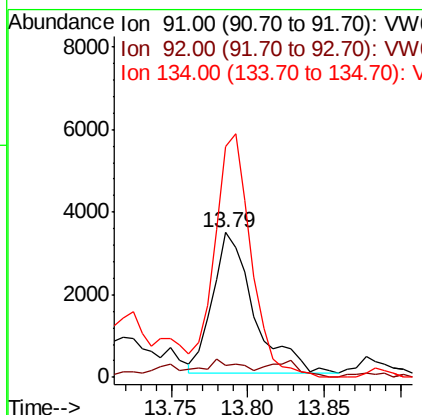
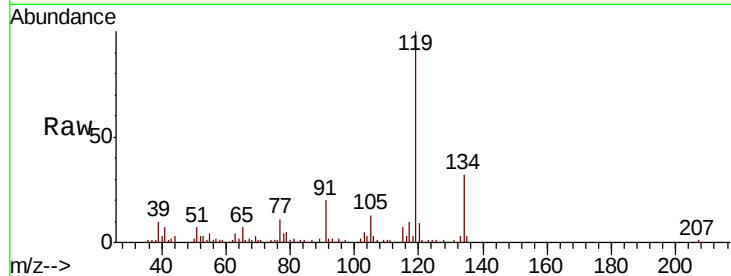




#89
n-Butylbenzene
Concen: 1.031 ug/l
RT: 13.79 min Scan# 1949
Delta R.T. -0.04 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

Instrument :
MSVOA_W
ClientSampleId :
FK-SF-02-005-A

Tot Ion: 91 Resp: 6419
Ion Ratio Lower Upper
91 100
92 11.0 26.9 80.7#
134 152.2 12.2 36.4#



#90
Hexachloroethane
Concen: 1.880 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW011447.D
Acq: 23 Jul 2019 22:41

Tgt Ion: 117 Resp: 2145
Ion Ratio Lower Upper
117 100
201 0.0 38.3 114.8#

