

Data File : VW010444.D
Acq On : 18 May 2019 07:16
Operator : SY/VA
Sample : K2871-03
Misc : 6.02G/5ML/MSVOA_W/SOIL
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SB-04(32)

Quant Time: May 20 05:37:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W051719S.M
Quant Title : SW846 8260
QLast Update : Sat May 18 01:59:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	1506901	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	2775319	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	2113215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	724281	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	585869	35.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.90%	
35) Dibromofluoromethane	7.88	113	435289	25.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	50.78%	
50) Toluene-d8	10.32	98	2491022	38.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.94%	
62) 4-Bromofluorobenzene	12.62	95	827324	32.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.94%	

Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.00	85	1098	Below Cal	#	61
3) Chloromethane	2.20	50	1647	Below Cal	#	72
5) Bromomethane	2.76	94	1412	Below Cal	#	78
13) Acrolein	3.91	56	582	Below Cal	#	14
16) Acetone	4.13	43	20024	6.878	ug/l #	86
17) Carbon Disulfide	4.37	76	125359	2.921	ug/l	98
20) Methylene Chloride	4.91	84	46817	Below Cal		96
25) 2-Butanone	7.13	43	9892	1.993	ug/l #	78
31) Cyclohexane	7.95	56	90504	Below Cal	#	50
36) 1,1-Dichloropropene	7.95	75	117219	4.771	ug/l #	49
38) Carbon Tetrachloride	7.95	117	155812	5.876	ug/l #	15
39) Methylcyclohexane	9.34	83	309363	9.429	ug/l	96
55) 1,1,2-Trichloroethane	10.76	97	56532	3.864	ug/l #	23
56) Ethyl methacrylate	10.66	69	26582	1.302	ug/l #	4
59) 2-Hexanone	10.94	43	63388	7.413	ug/l #	31
73) Isopropylbenzene	12.47	105	186797	3.335	ug/l	97
74) N-amyl acetate	12.26	43	164960	11.494	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	12.69	83	190180	17.146	ug/l #	33
76) 1,2,3-Trichloropropane	12.62	75	361538	46.615	ug/l #	100
78) n-propylbenzene	12.80	91	242049	3.726	ug/l	98
79) 2-Chlorotoluene	12.80	91	242049	6.380	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.62	75	361538	91.988	ug/l #	15
83) tert-Butylbenzene	13.21	119	58410	1.449	ug/l	96
85) sec-Butylbenzene	13.38	105	272325	4.797	ug/l	80
86) p-Isopropyltoluene	13.66	119	73824	1.440	ug/l	95
89) n-Butylbenzene	13.83	91	230655	4.714	ug/l #	82
90) Hexachloroethane	14.10	117	30780	2.984	ug/l #	16
96) 1,2,3-Trichlorobenzene	15.58	180	16516	1.297	ug/l #	12

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

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Instrument :
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ClientSampleId :
SB-04(32)

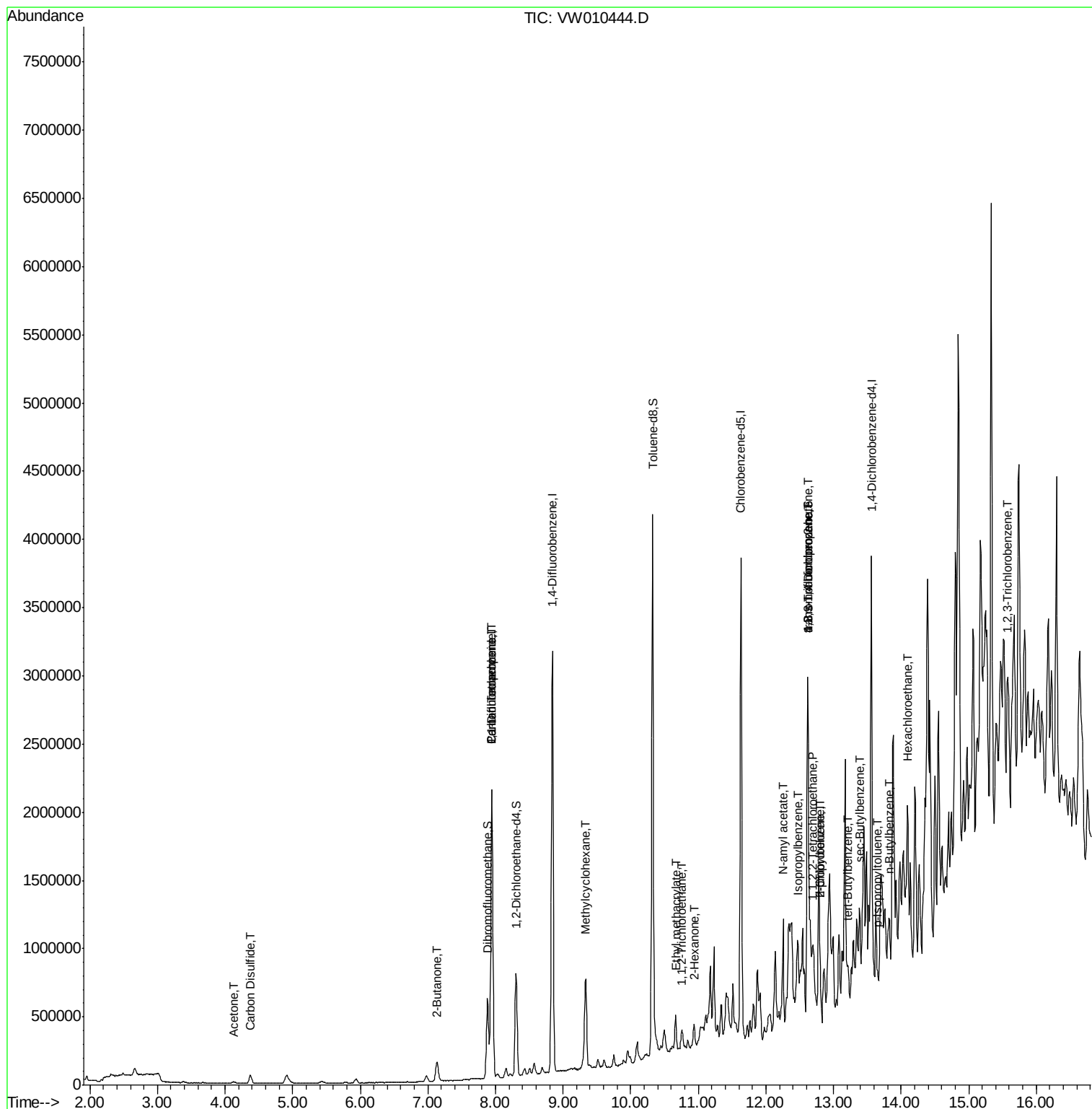
Quant Time: May 20 05:37:06 2019

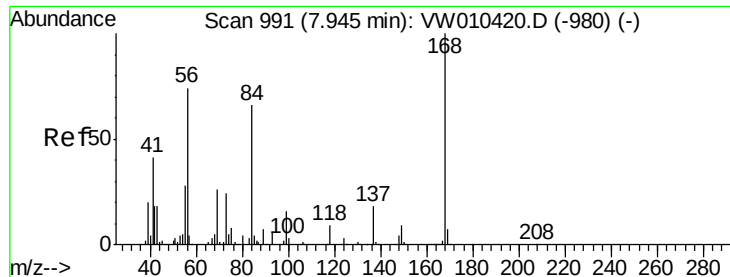
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_W\METHOD\82W051719S.M

Quant Title : SW846 8260

QLast Update : Sat May 18 01:59:40 2019

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

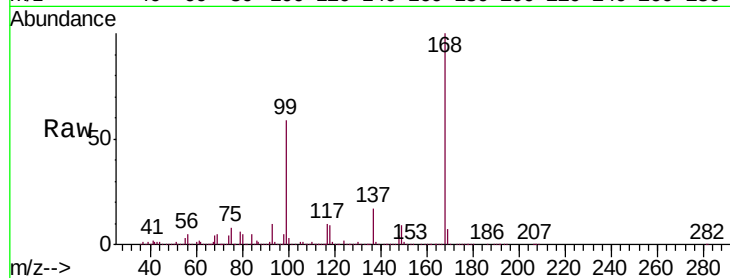
SB-04(32)

Tgt Ion:168 Resp: 1506901

Ion Ratio Lower Upper

168 100

99 59.4 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

800000

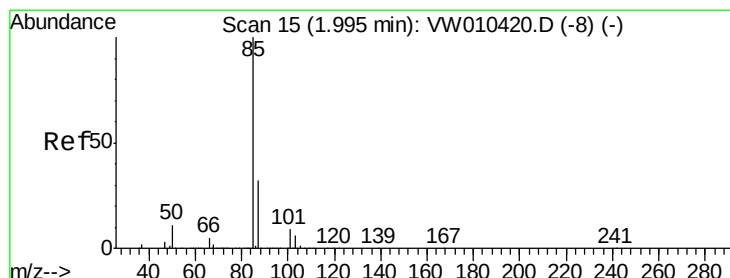
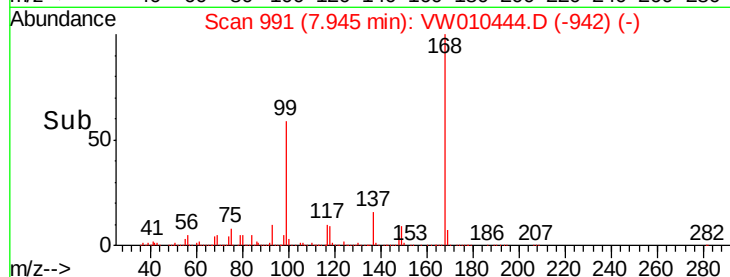
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.01 min

Lab File: VW010444.D

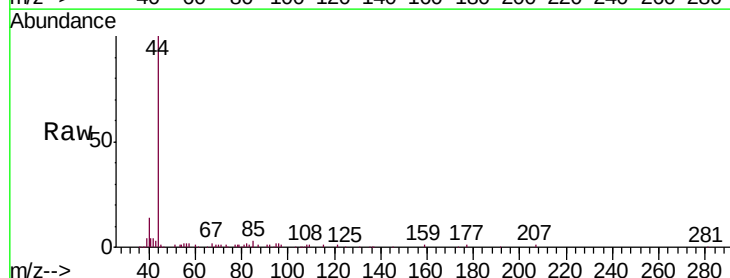
Acq: 18 May 2019 07:16

Tgt Ion: 85 Resp: 1098

Ion Ratio Lower Upper

85 100

87 54.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

600

500

400

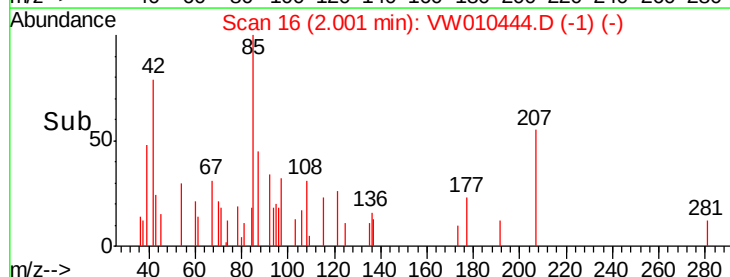
300

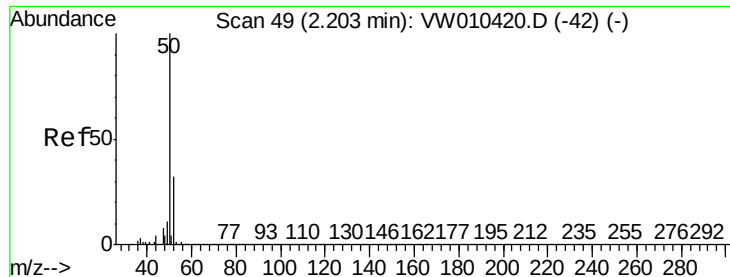
200

100

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. 0.00 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampled :

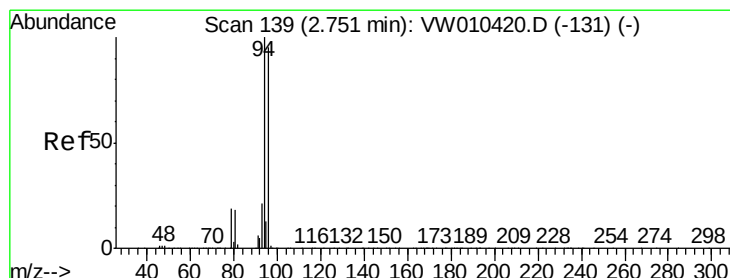
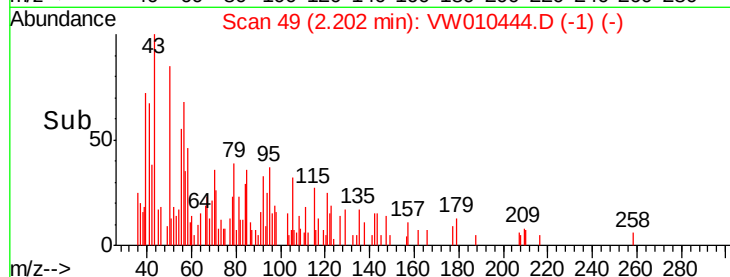
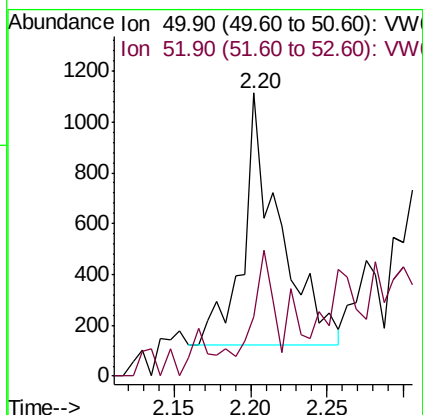
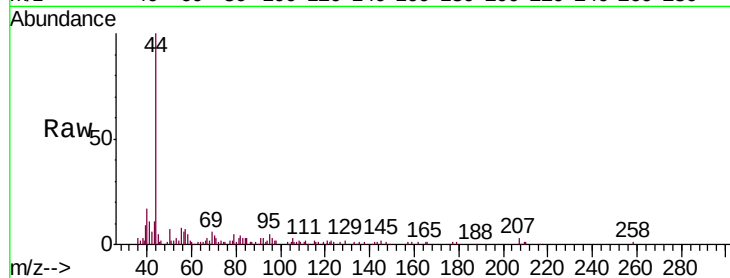
SB-04(32)

Tgt Ion: 50 Resp: 1647

Ion Ratio Lower Upper

50 100

52 16.1 25.4 38.0#



#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 141

Delta R.T. 0.01 min

Lab File: VW010444.D

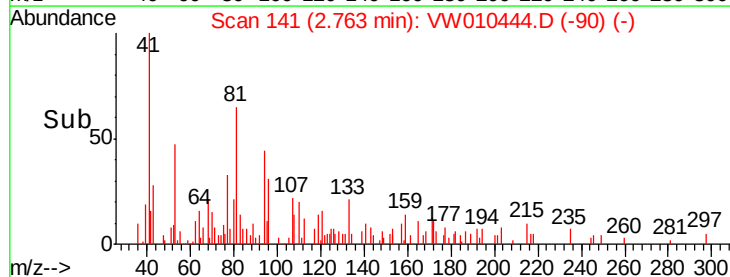
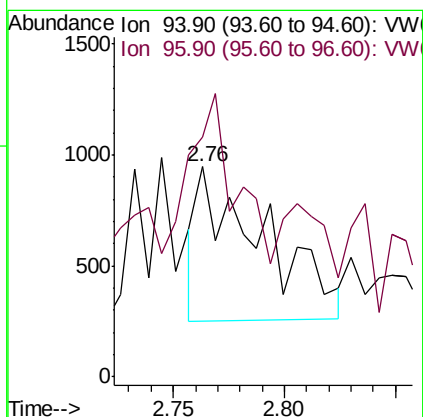
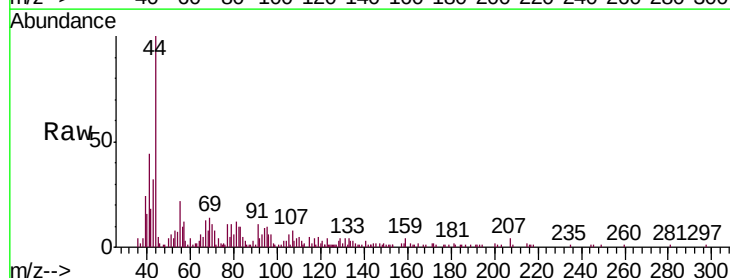
Acq: 18 May 2019 07:16

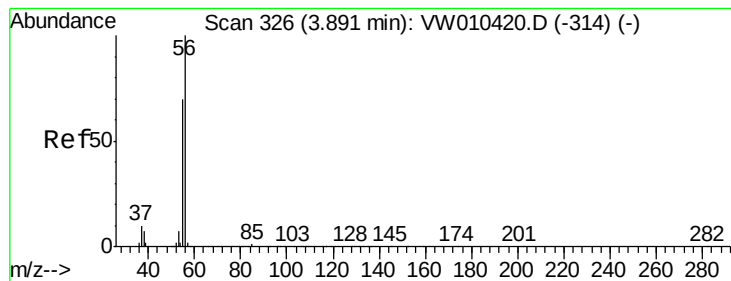
Tgt Ion: 94 Resp: 1412

Ion Ratio Lower Upper

94 100

96 115.8 75.8 113.6#





#13

Acrolein

Concen: Below Cal

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

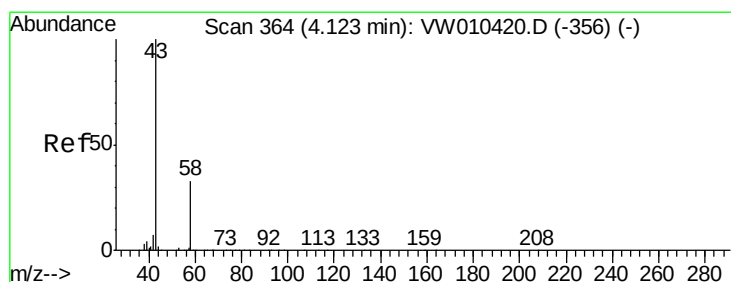
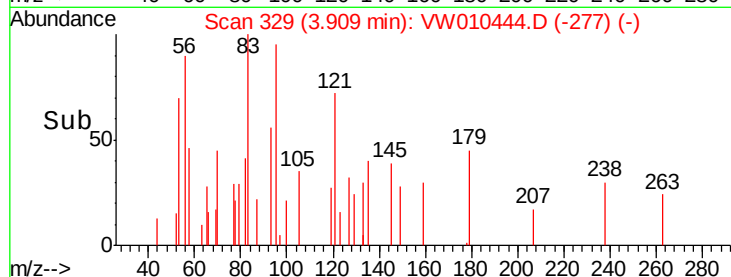
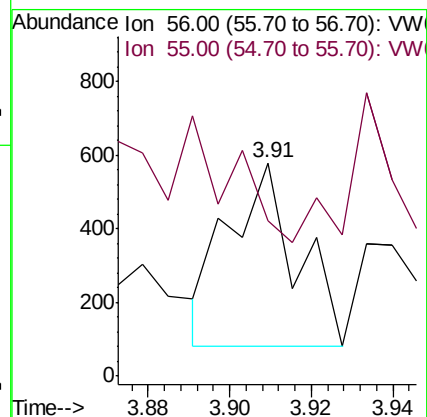
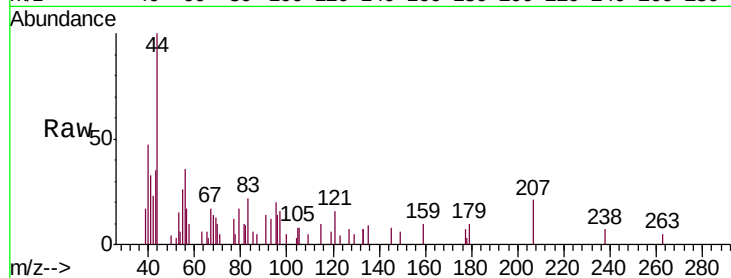
SB-04(32)

Tgt Ion: 56 Resp: 582

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



#16

Acetone

Concen: 6.878 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010444.D

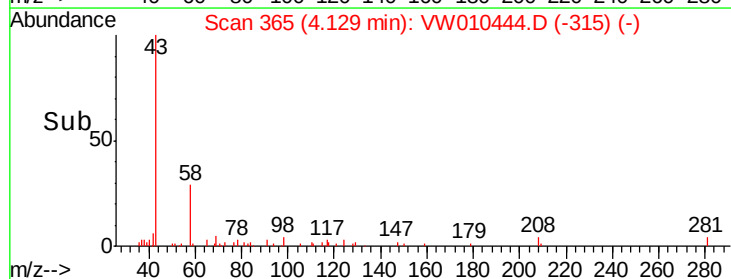
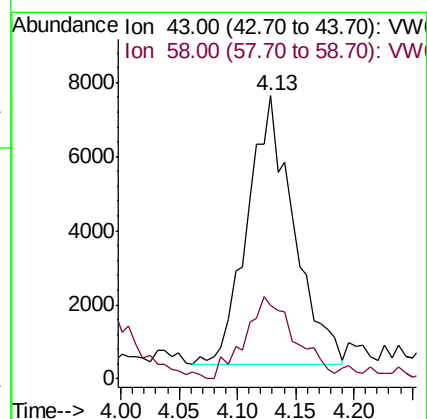
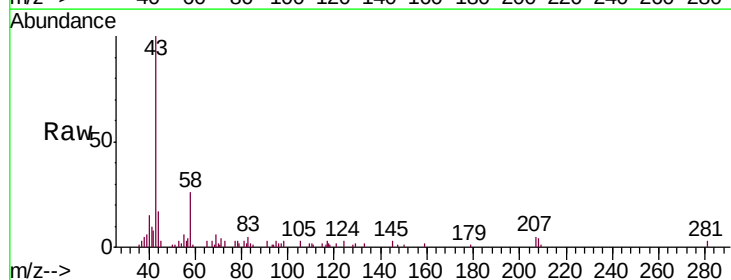
Acq: 18 May 2019 07:16

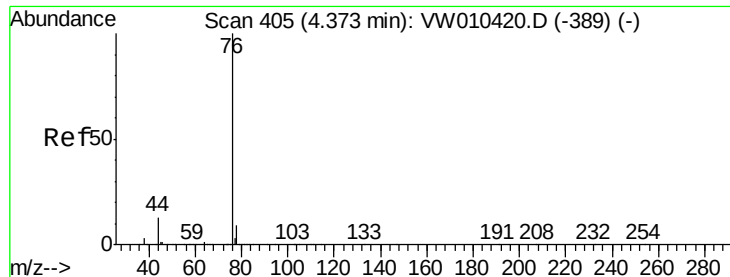
Tgt Ion: 43 Resp: 20024

Ion Ratio Lower Upper

43 100

58 24.9 26.0 39.0#

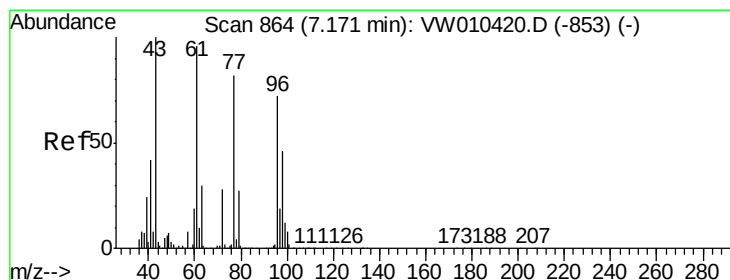
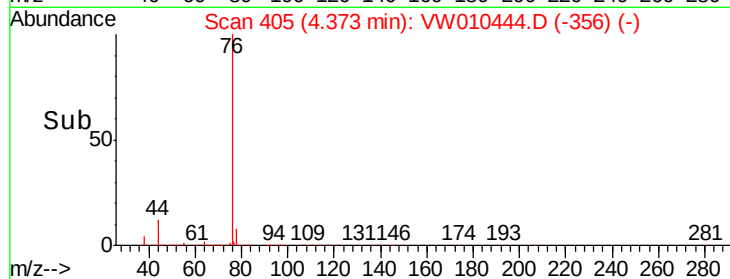
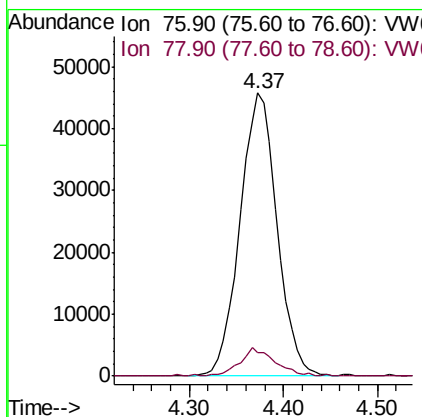
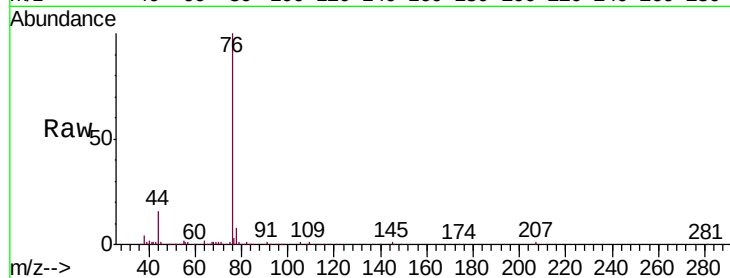




#17
Carbon Disulfide
Concen: 2.921 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.00 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

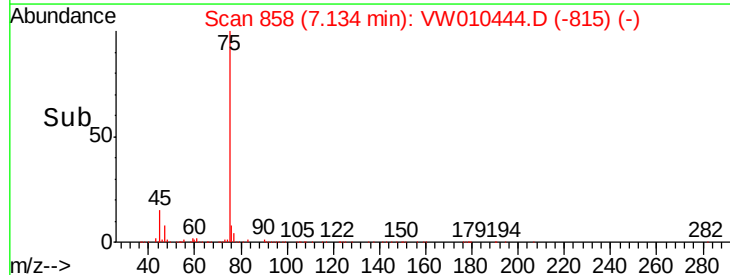
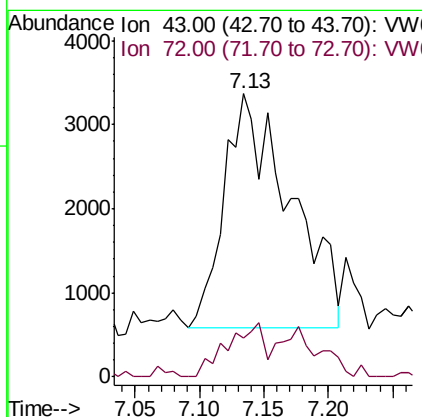
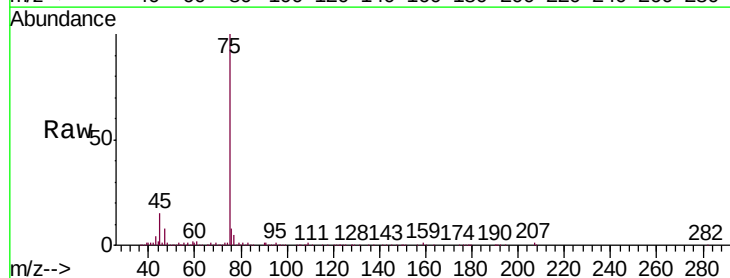
Instrument :
MSVOA_W
ClientSampleId :
SB-04(32)

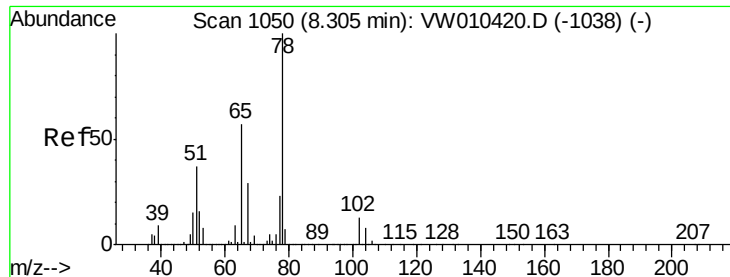
Tgt Ion: 76 Resp: 125359
Ion Ratio Lower Upper
76 100
78 8.3 7.1 10.7



#25
2-Butanone
Concen: 1.993 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.04 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

Tgt Ion: 43 Resp: 9892
Ion Ratio Lower Upper
43 100
72 16.5 22.6 33.8#

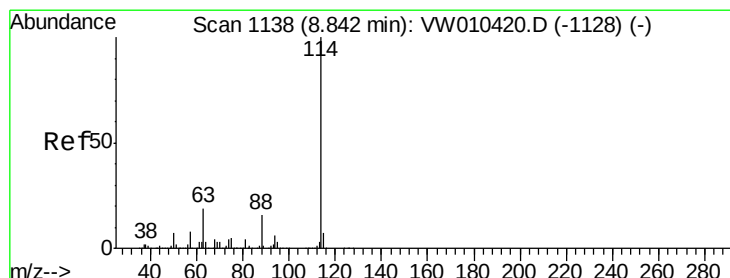
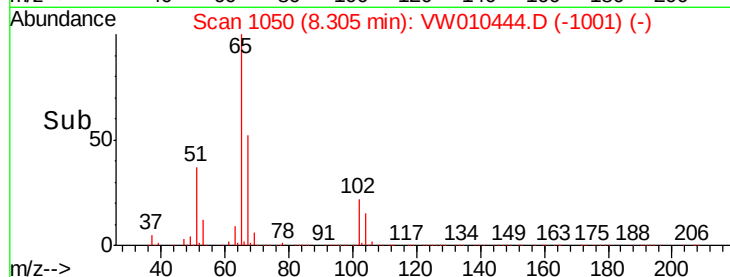
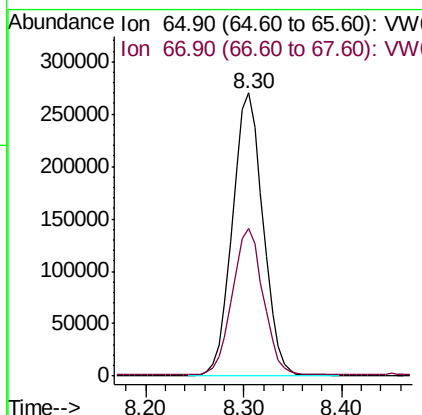
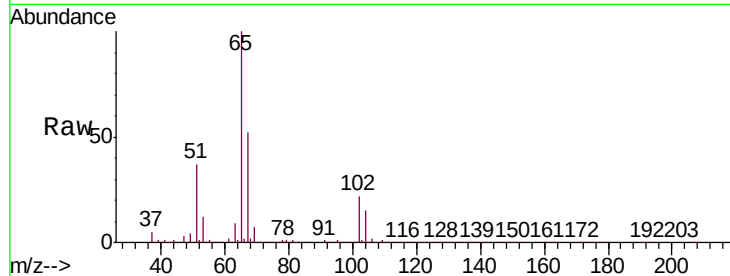




#33
 1,2-Dichloroethane-d4
 Concen: 35.450 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010444.D
 Acq: 18 May 2019 07:16

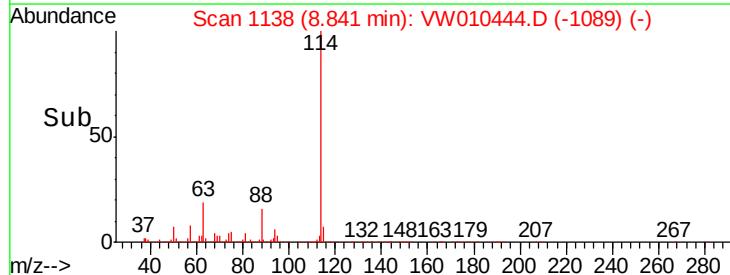
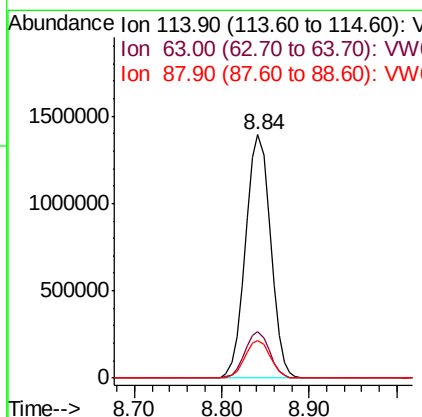
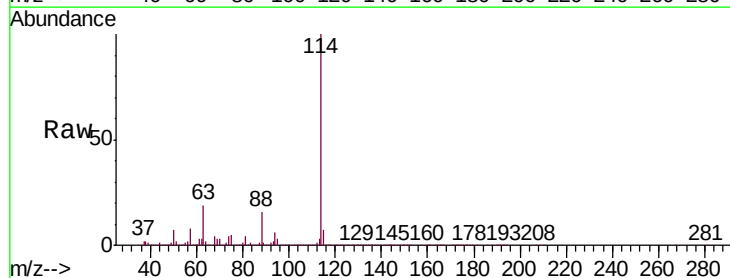
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-04(32)

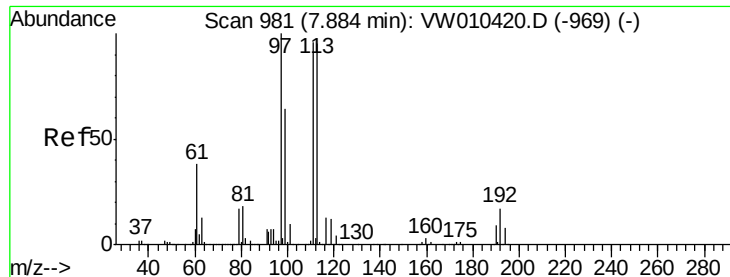
Tgt Ion: 65 Resp: 585869
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010444.D
 Acq: 18 May 2019 07:16

Tgt Ion: 114 Resp: 2775319
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.8
 88 15.5 0.0 31.6

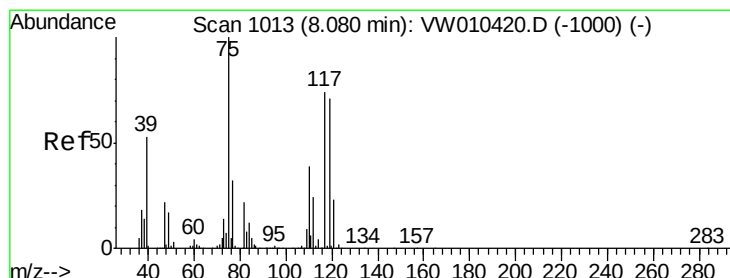
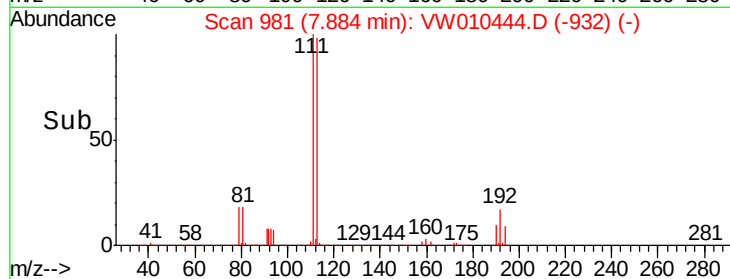
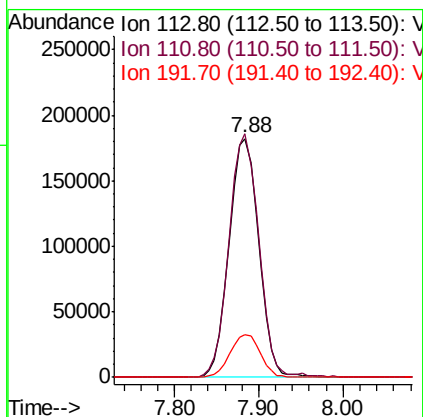
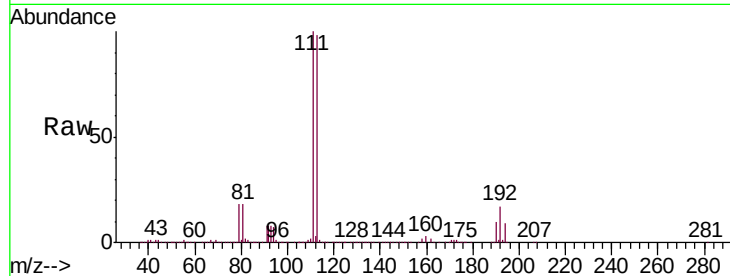




#35
 Dibromofluoromethane
 Concen: 25.394 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010444.D
 Acq: 18 May 2019 07:16

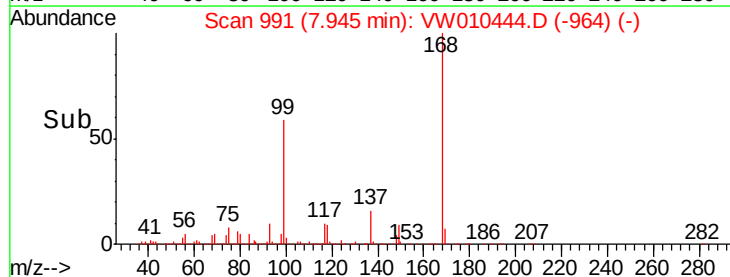
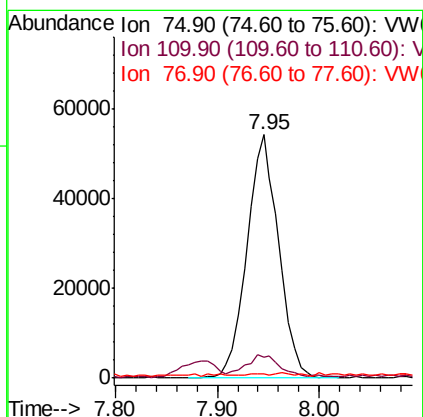
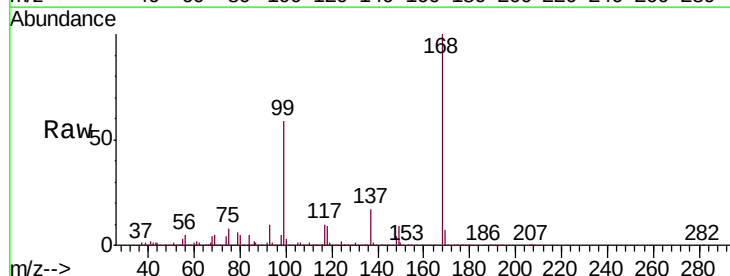
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-04(32)

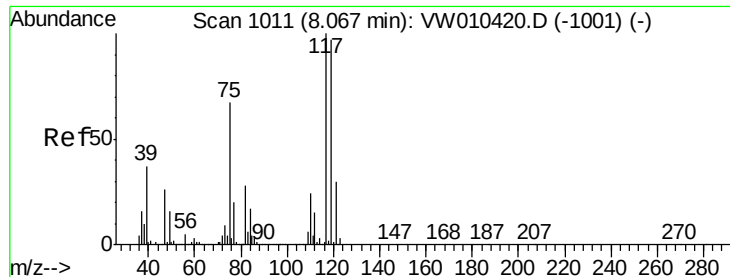
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.5	123.7
192	18.1	14.2	21.4



#36
 1,1-Dichloropropene
 Concen: 4.771 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010444.D
 Acq: 18 May 2019 07:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	19.4	58.1#
77	0.4	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 5.876 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

SB-04(32)

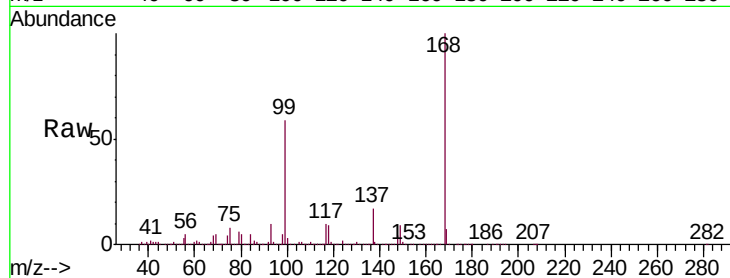
Tgt Ion:117 Resp: 155812

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.6#

121 0.4 24.2 36.2#

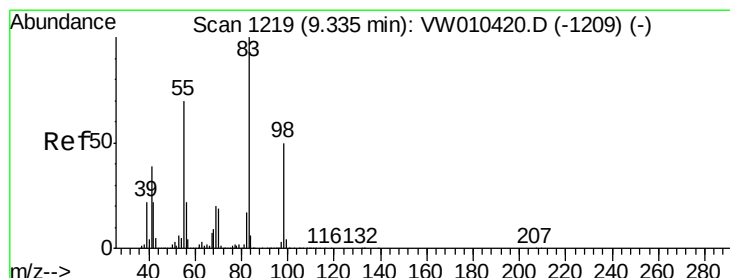
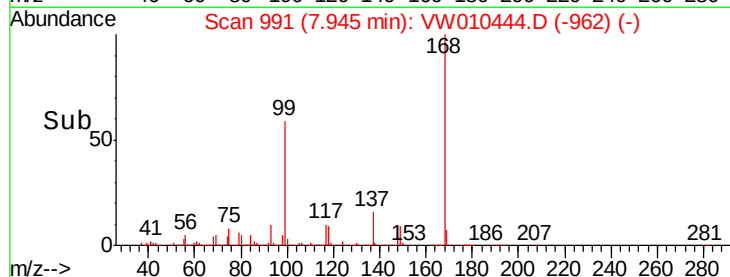
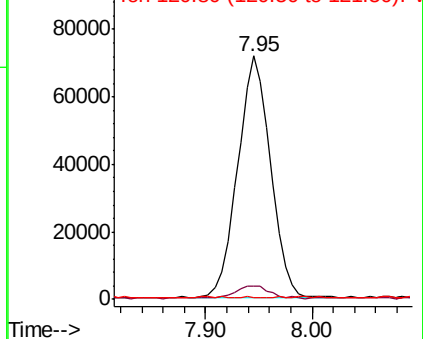


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 9.429 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

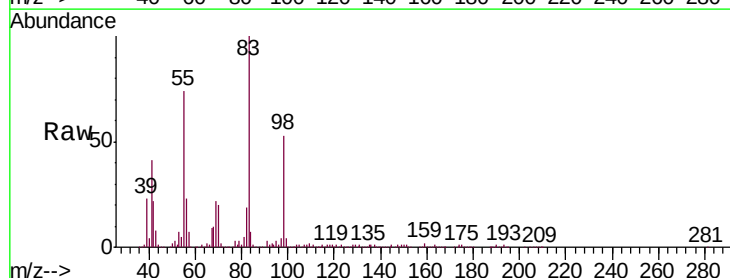
Tgt Ion: 83 Resp: 309363

Ion Ratio Lower Upper

83 100

55 72.1 55.7 83.5

98 53.2 40.2 60.4

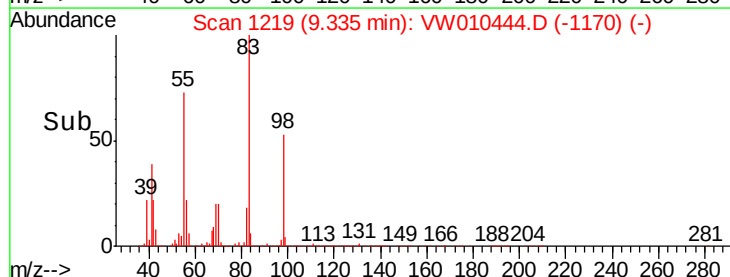
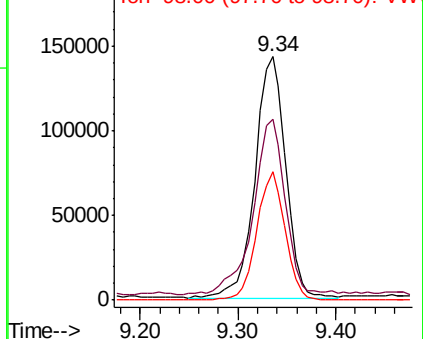


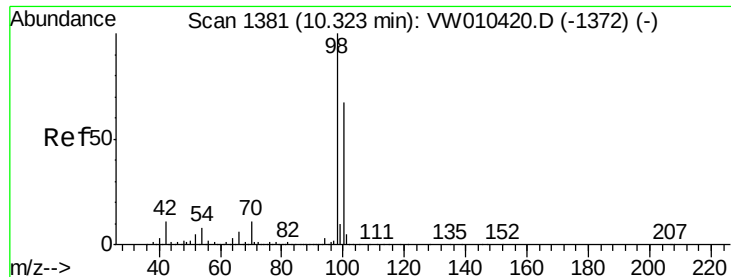
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#50

Toluene-d8

Concen: 38.970 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

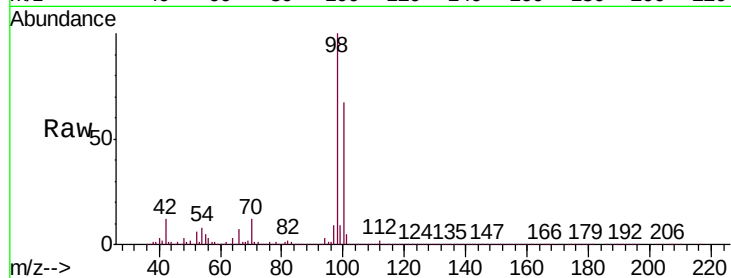
SB-04(32)

Tgt Ion: 98 Resp: 2491022

Ion Ratio Lower Upper

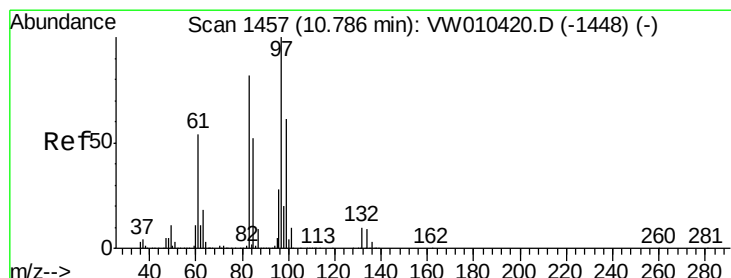
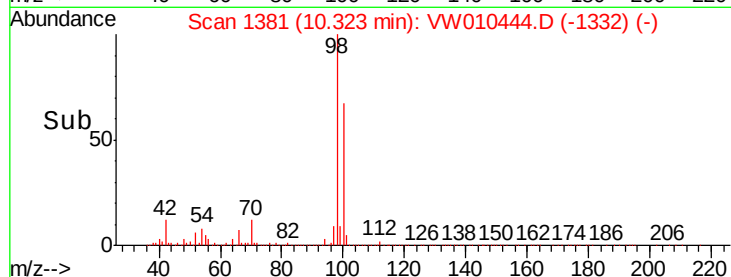
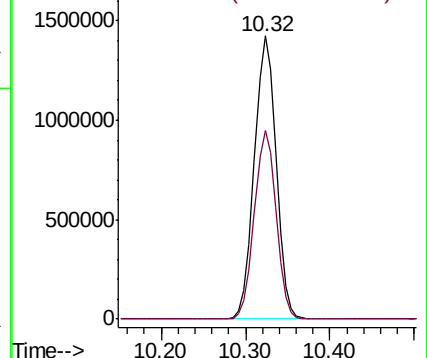
98 100

100 66.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#55

1,1,2-Trichloroethane

Concen: 3.864 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Tgt Ion: 97 Resp: 56532

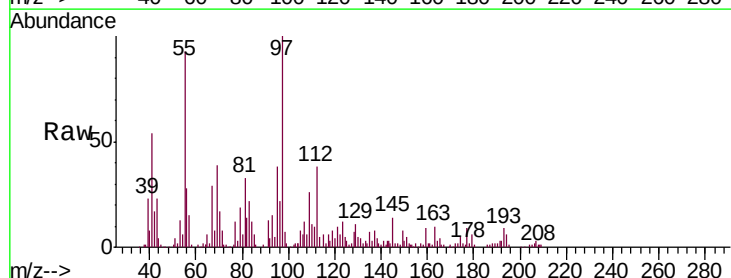
Ion Ratio Lower Upper

97 100

83 9.6 65.6 98.4#

85 3.9 41.6 62.4#

99 1.2 48.8 73.2#

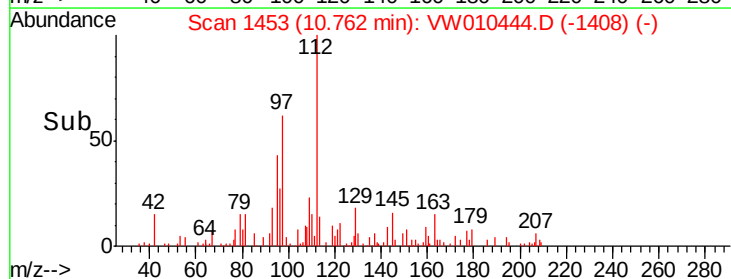
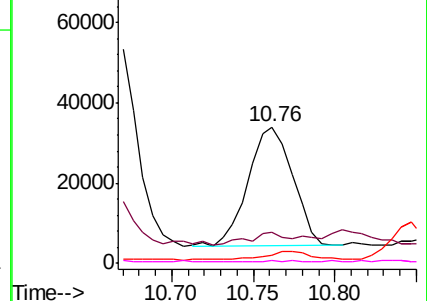


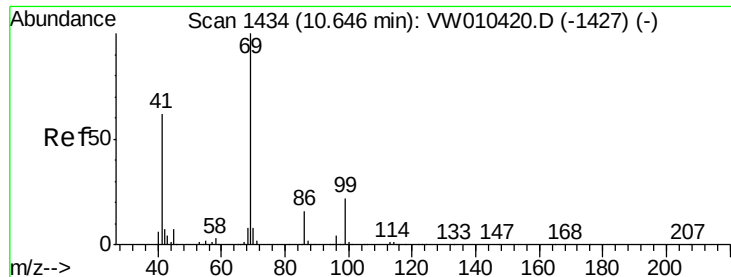
Abundance Ion 96.90 (96.60 to 97.60): VW

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





#56

Ethyl methacrylate

Concen: 1.302 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

SB-04(32)

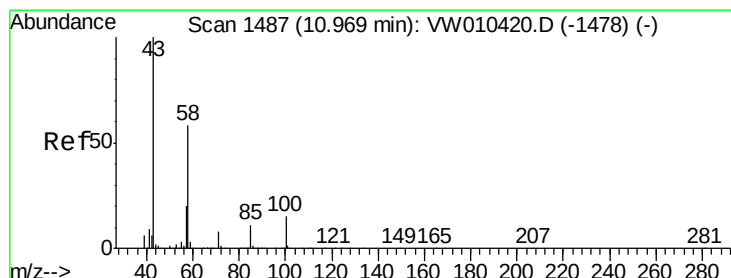
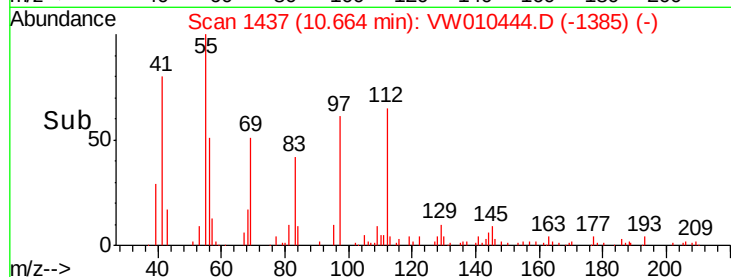
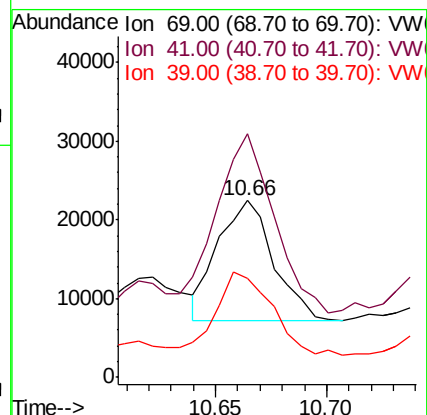
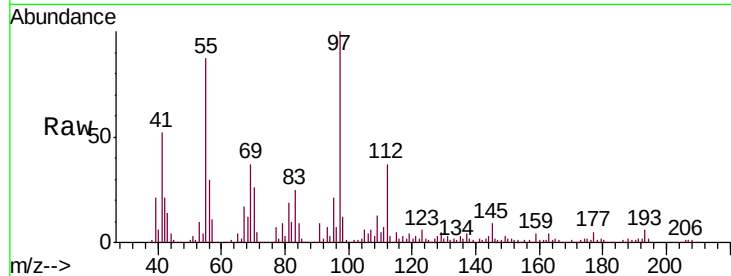
Tgt Ion: 69 Resp: 26582

Ion Ratio Lower Upper

69 100

41 151.8 50.0 75.0#

39 67.1 26.5 39.7#



#59

2-Hexanone

Concen: 7.413 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.03 min

Lab File: VW010444.D

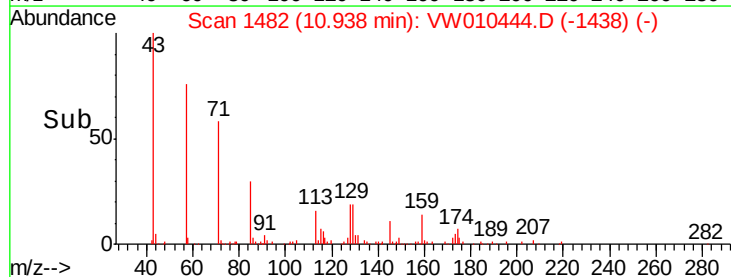
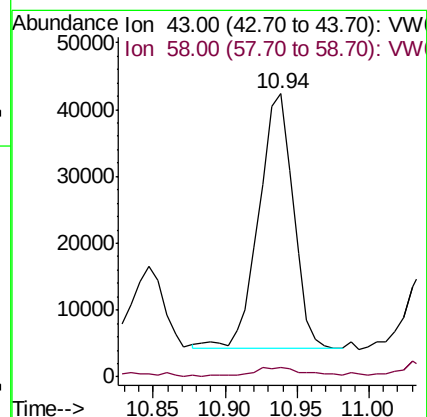
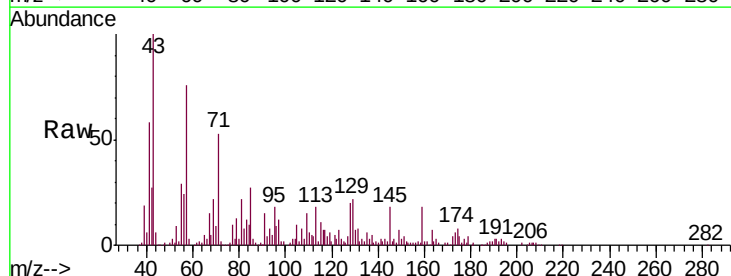
Acq: 18 May 2019 07:16

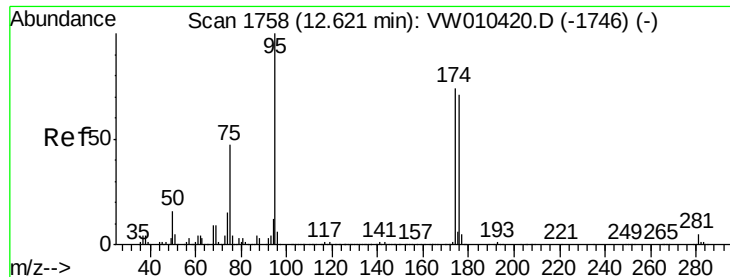
Tgt Ion: 43 Resp: 63388

Ion Ratio Lower Upper

43 100

58 6.1 28.5 85.6#

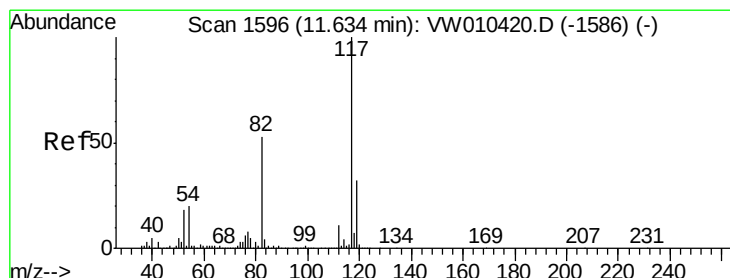
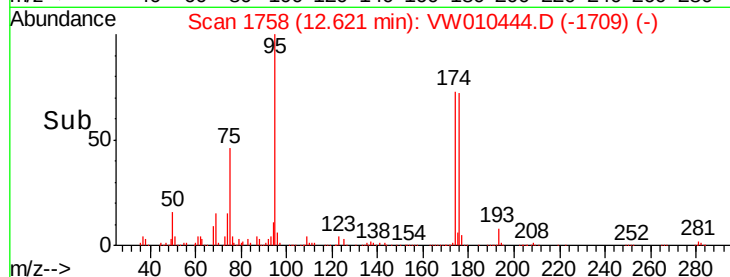
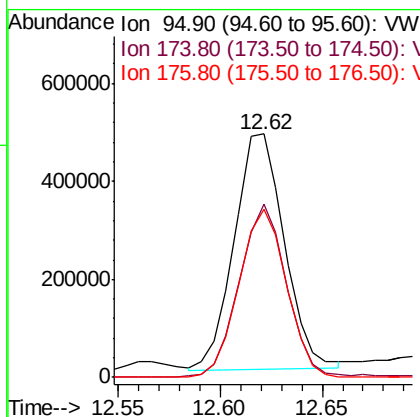
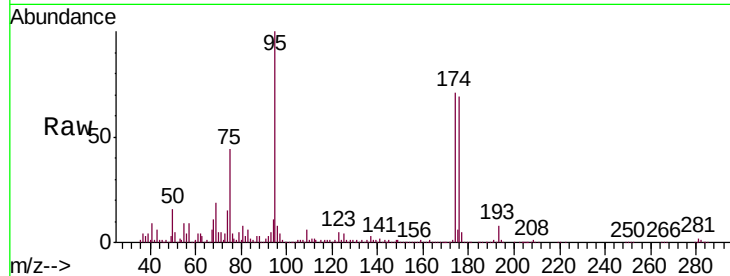




#62
4-Bromofluorobenzene
Concen: 32.966 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

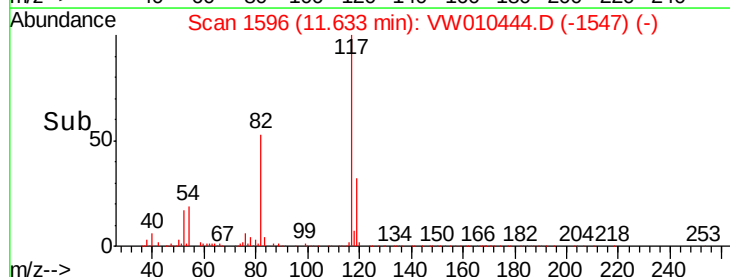
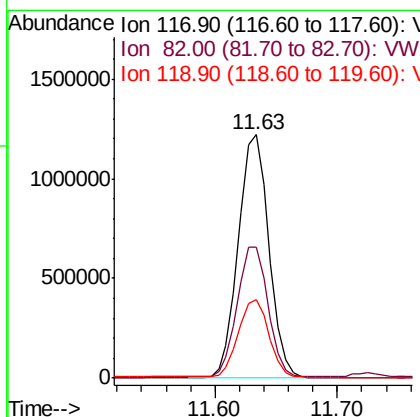
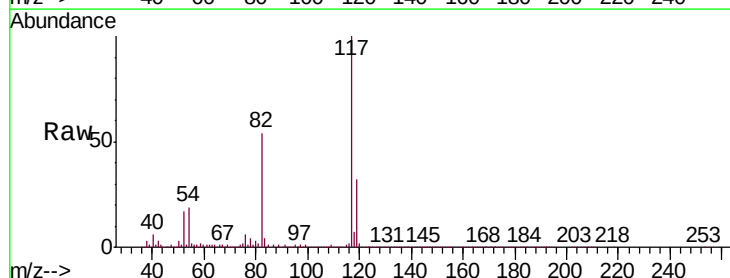
Instrument :
MSVOA_W
ClientSampleId :
SB-04(32)

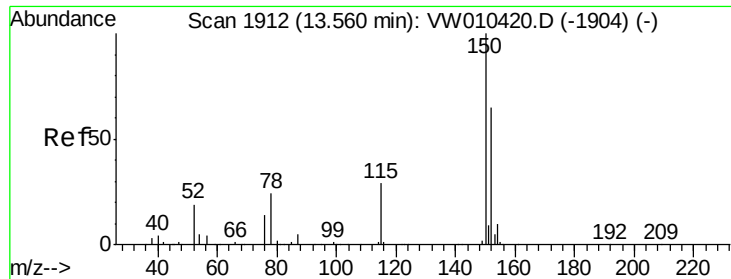
Tgt Ion: 95 Resp: 827324
Ion Ratio Lower Upper
95 100
174 68.6 0.0 146.6
176 67.0 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

Tgt Ion: 117 Resp: 2113215
Ion Ratio Lower Upper
117 100
82 53.2 42.1 63.1
119 31.9 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

SB-04(32)

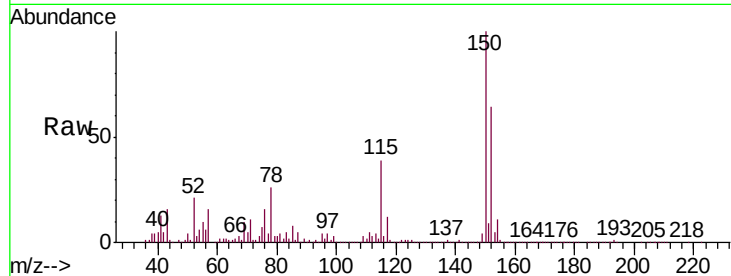
Tgt Ion:152 Resp: 724281

Ion Ratio Lower Upper

152 100

115 59.1 30.0 90.1

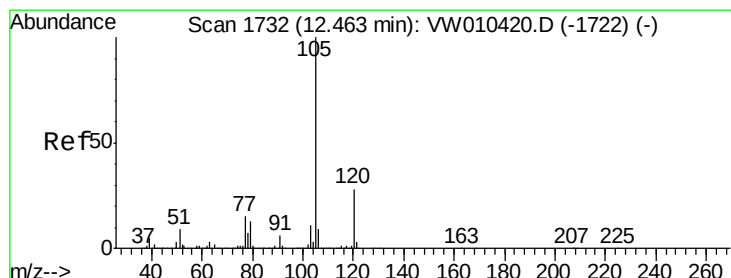
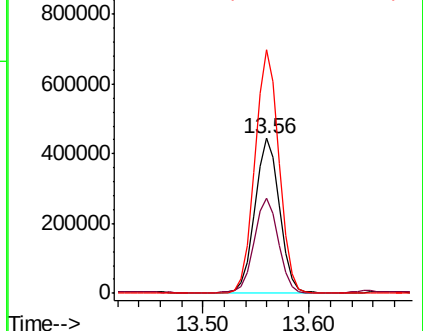
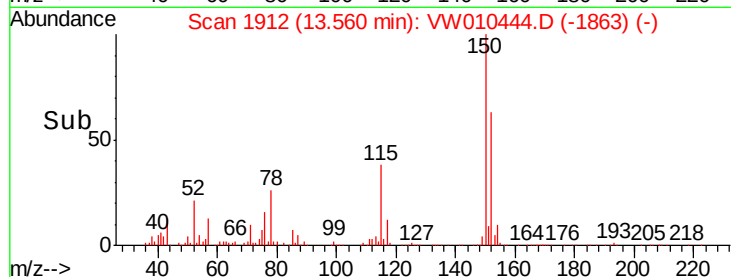
150 152.4 0.0 350.2



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



#73

Isopropylbenzene

Concen: 3.335 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW010444.D

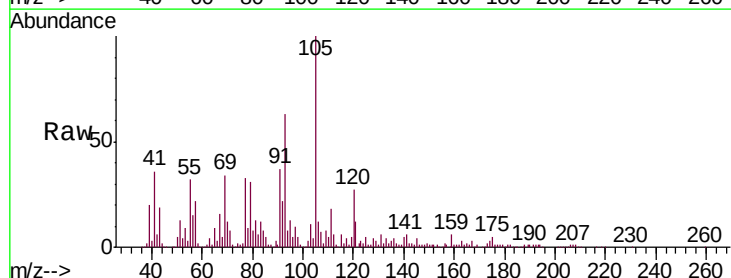
Acq: 18 May 2019 07:16

Tgt Ion:105 Resp: 186797

Ion Ratio Lower Upper

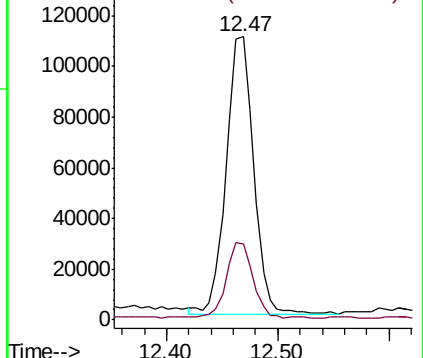
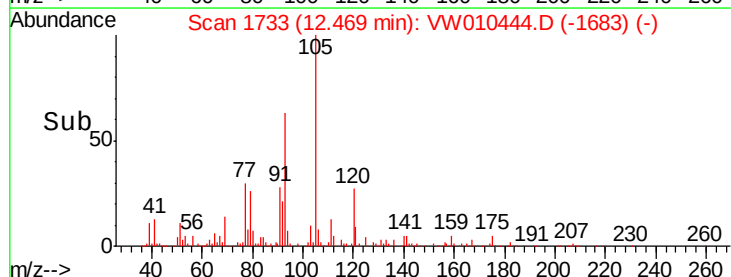
105 100

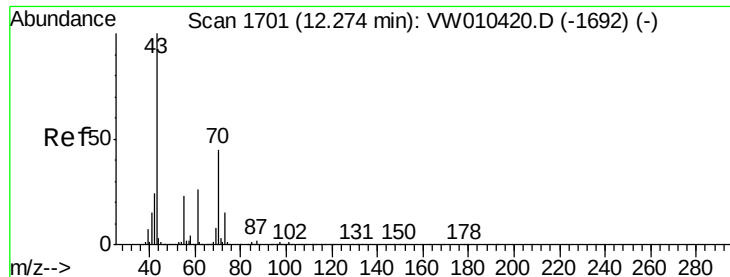
120 26.1 13.9 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyI acetate

Concen: 11.494 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

SB-04(32)

Tgt Ion: 43 Resp: 164960

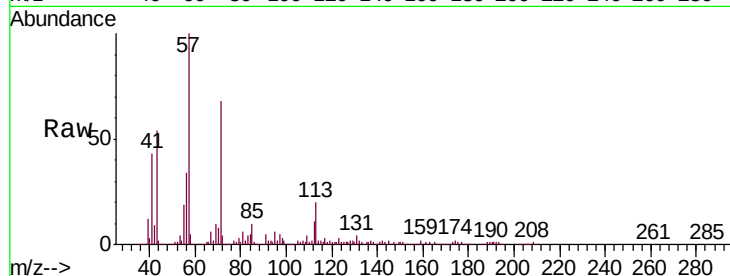
Ion Ratio Lower Upper

43 100

70 20.5 36.4 54.6#

55 0.0 19.0 28.6#

61 0.0 20.6 31.0#

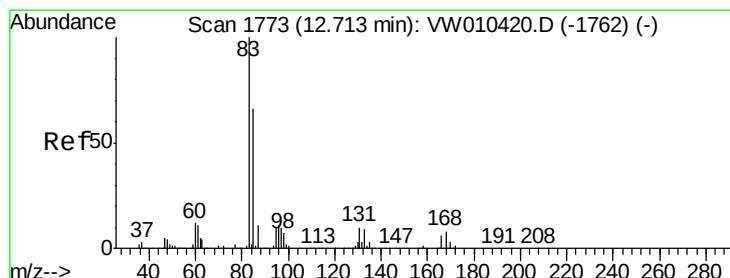
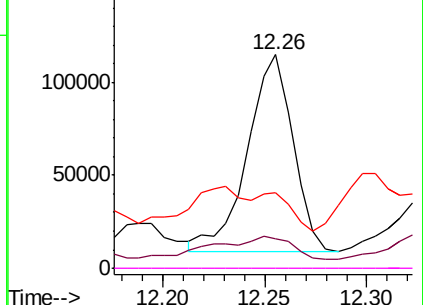
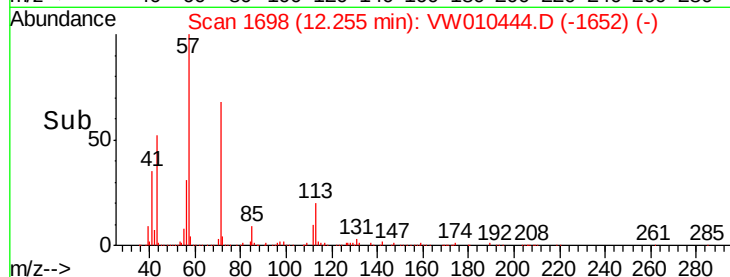


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#75

1,1,2,2-Tetrachloroethane

Concen: 17.146 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.02 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

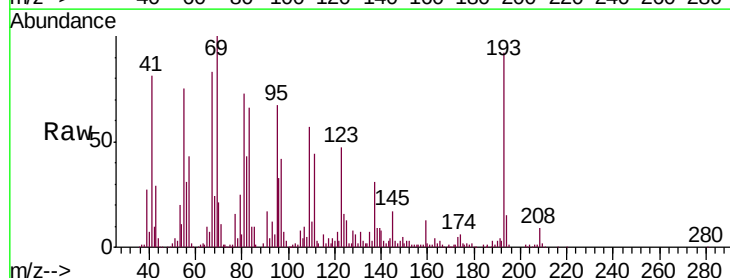
Tgt Ion: 83 Resp: 190180

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

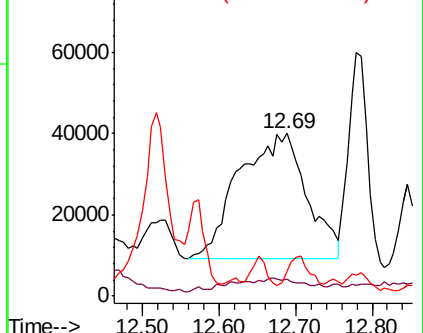
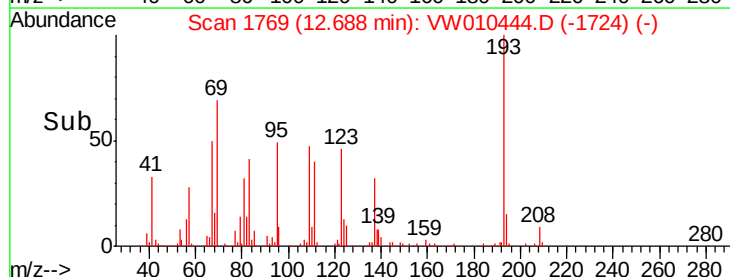
85 6.4 32.3 96.9#

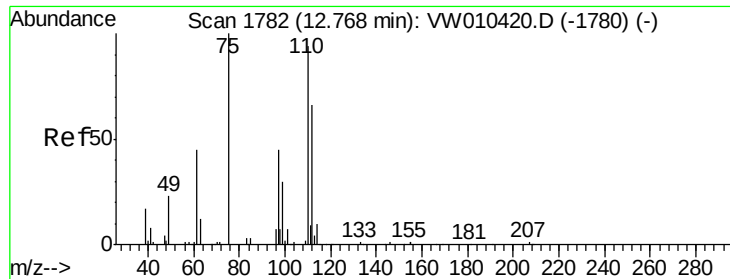


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 46.615 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampleId :

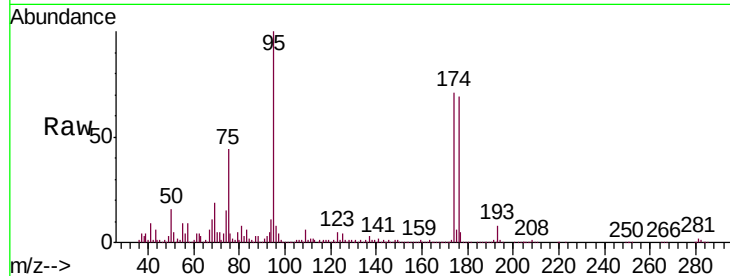
SB-04(32)

Tgt Ion: 75 Resp: 361538

Ion Ratio Lower Upper

75 100

77 2.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

200000

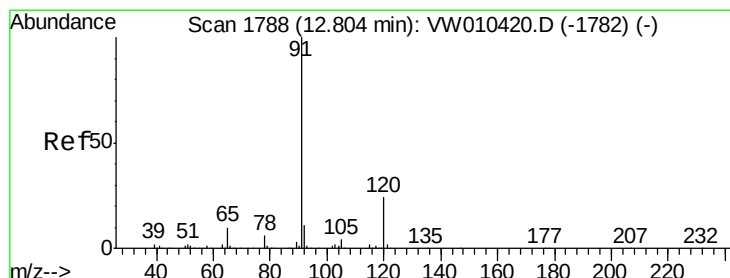
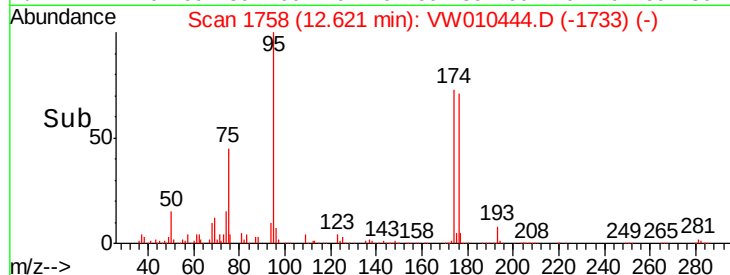
150000

100000

50000

0

Time-->



#78

n-propylbenzene

Concen: 3.726 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW010444.D

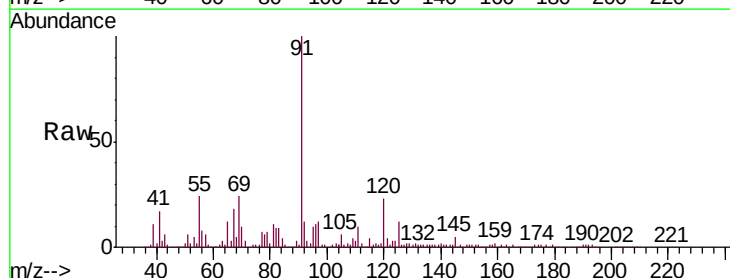
Acq: 18 May 2019 07:16

Tgt Ion: 91 Resp: 242049

Ion Ratio Lower Upper

91 100

120 25.1 12.0 36.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

12.80

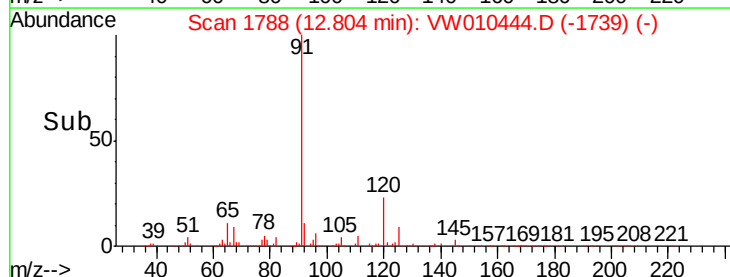
150000

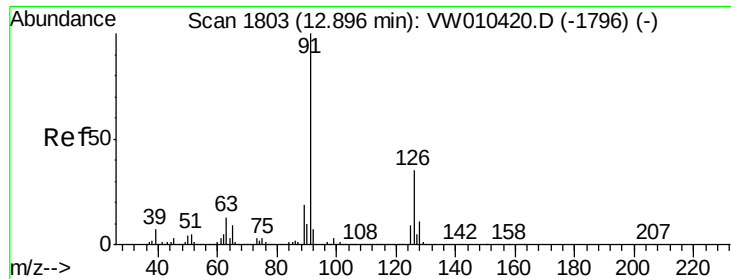
100000

50000

0

Time-->

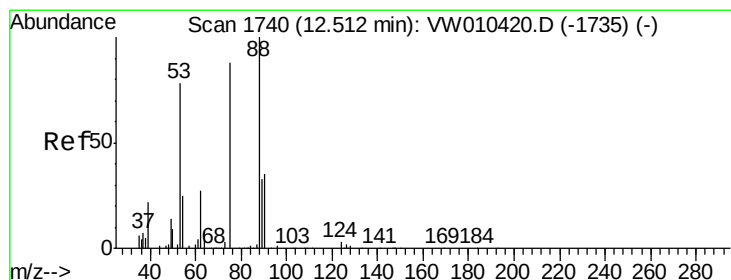
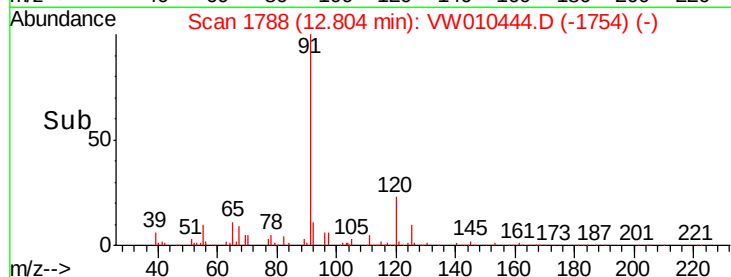
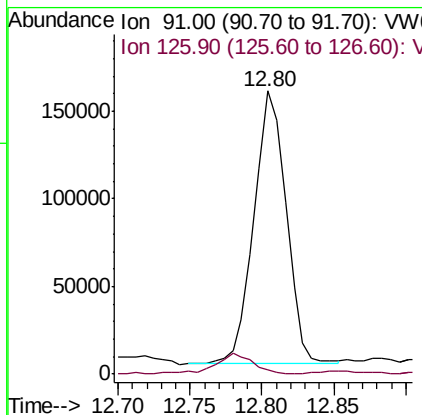
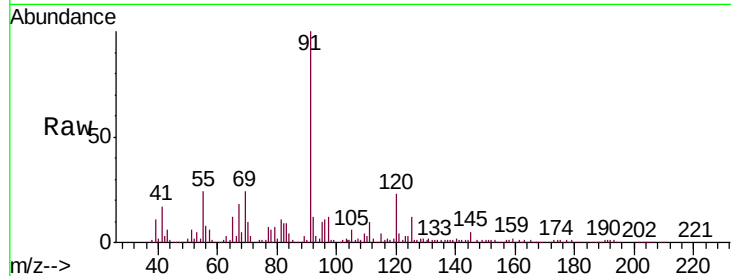




#79
2-Chlorotoluene
Concen: 6.380 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.09 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

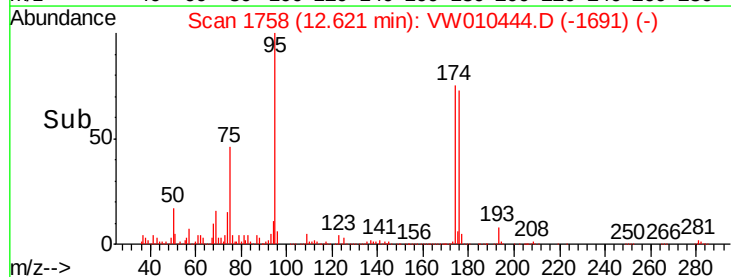
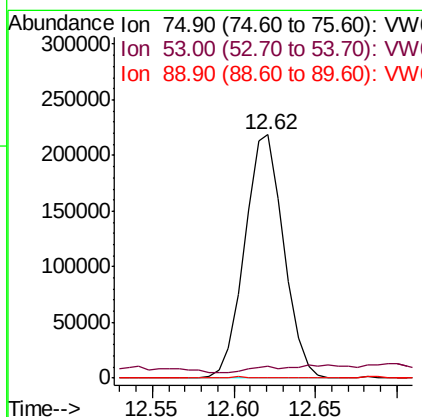
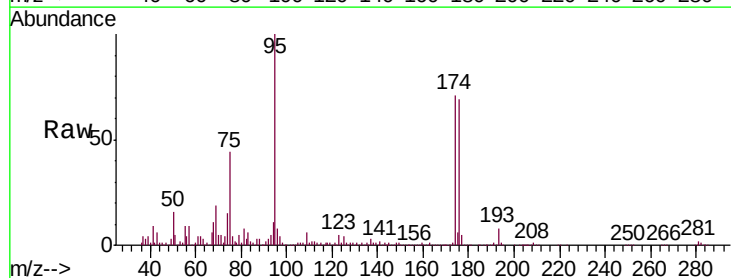
Instrument :
MSVOA_W
ClientSampleId :
SB-04(32)

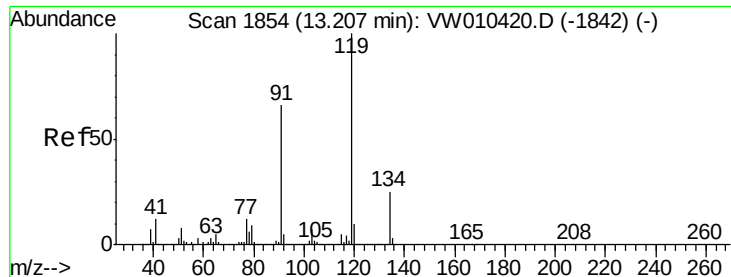
Tgt Ion: 91 Resp: 242049
Ion Ratio Lower Upper
91 100
126 0.0 17.3 52.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.988 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

Tgt Ion: 75 Resp: 361538
Ion Ratio Lower Upper
75 100
53 2.1 70.7 106.1#
89 0.2 38.6 58.0#

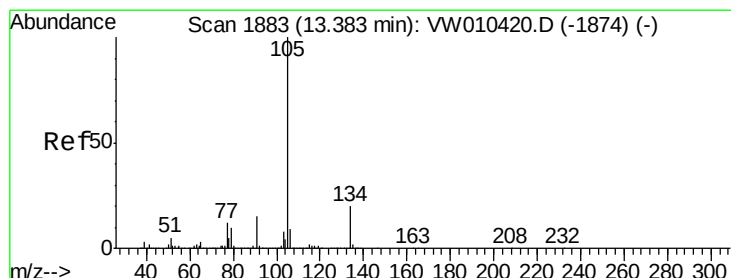
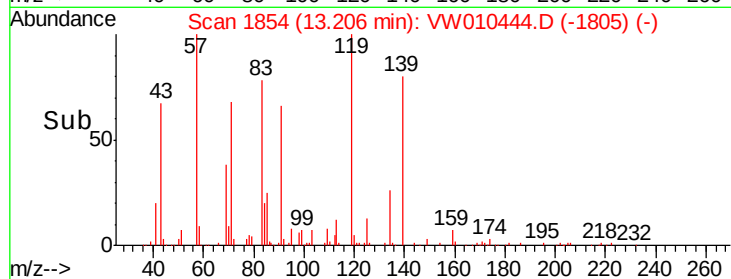
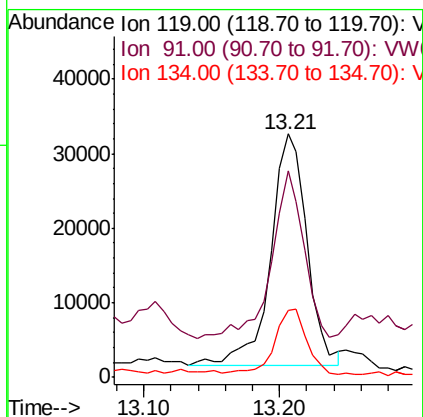
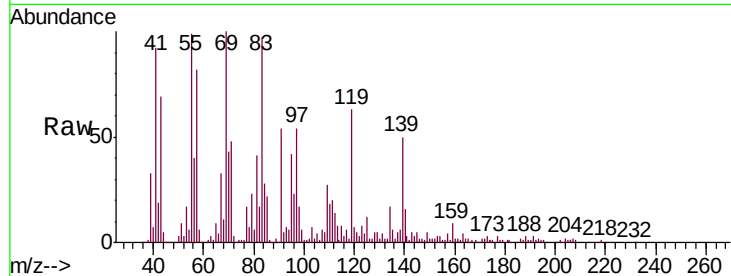




#83
tert-Butylbenzene
Concen: 1.449 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

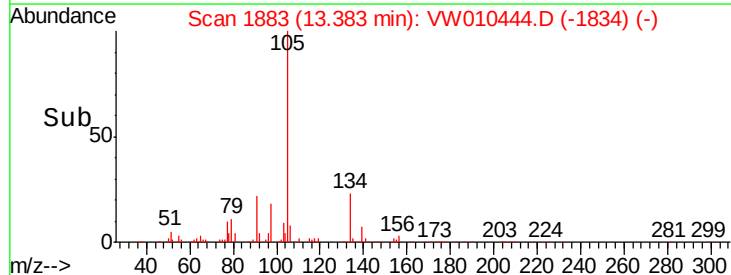
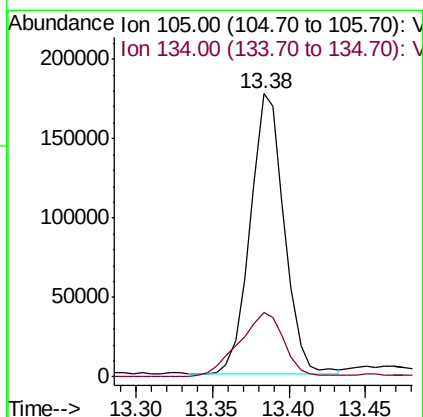
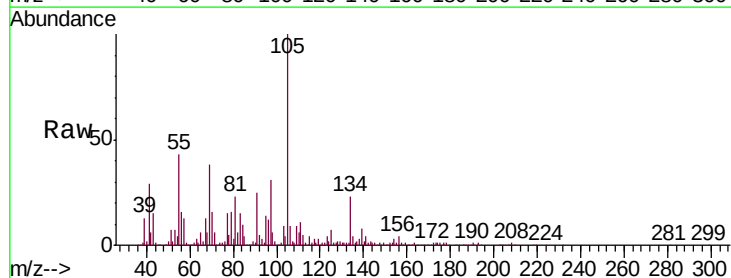
Instrument :
MSVOA_W
ClientSampleId :
SB-04(32)

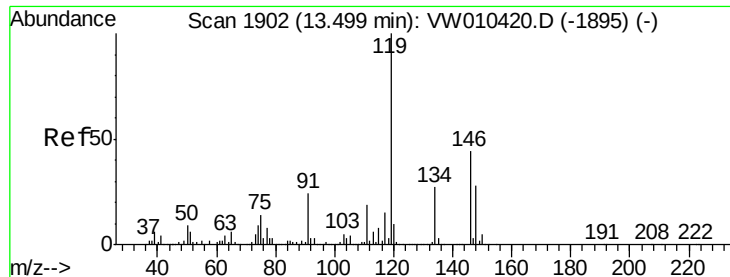
Tgt Ion:119 Resp: 58410
Ion Ratio Lower Upper
119 100
91 64.2 33.5 100.5
134 24.1 13.8 41.4



#85
sec-Butylbenzene
Concen: 4.797 ug/l
RT: 13.38 min Scan# 1883
Delta R.T. -0.00 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

Tgt Ion:105 Resp: 272325
Ion Ratio Lower Upper
105 100
134 30.2 10.4 31.4

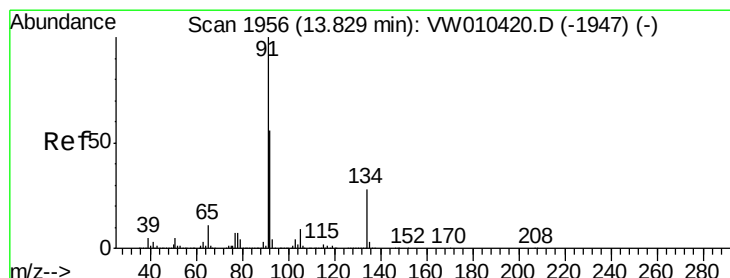
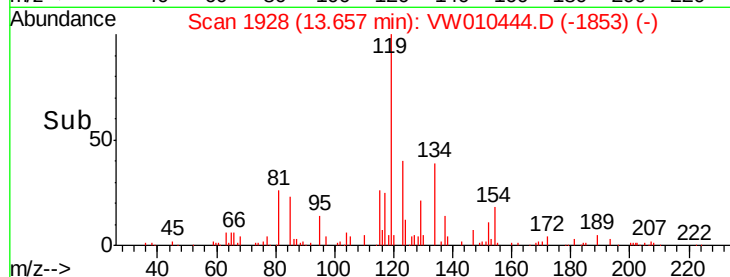
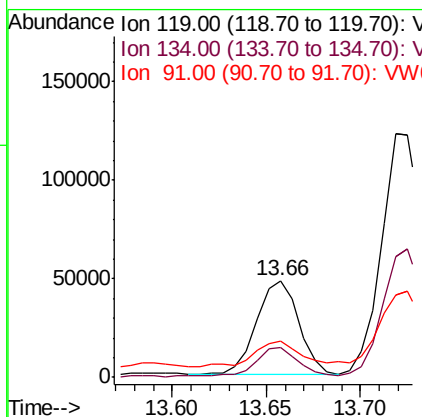
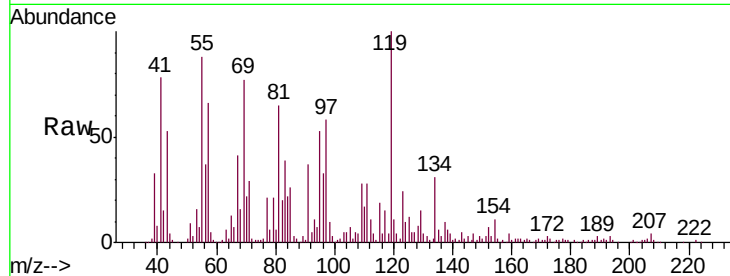




#86
p-Isopropyltoluene
Concen: 1.440 ug/l
RT: 13.66 min Scan# 1928
Delta R.T. 0.16 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

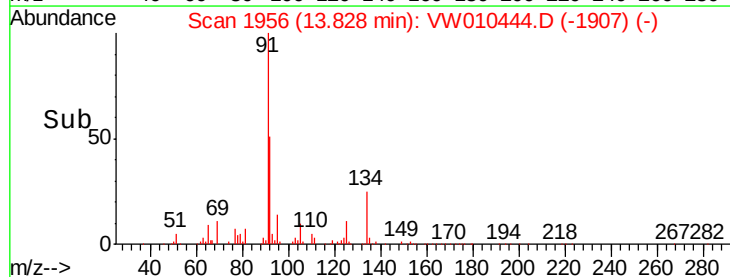
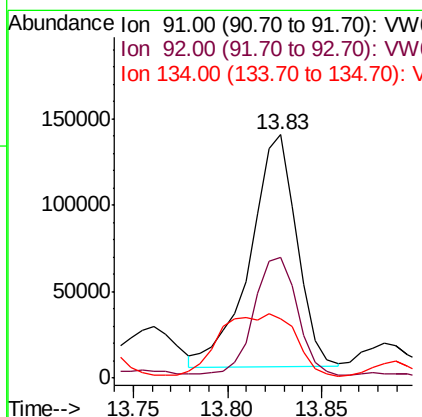
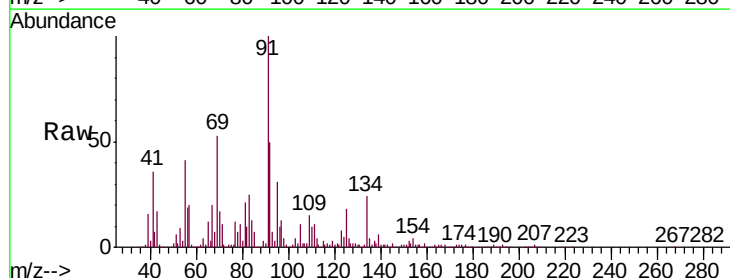
Instrument :
MSVOA_W
ClientSampled :
SB-04(32)

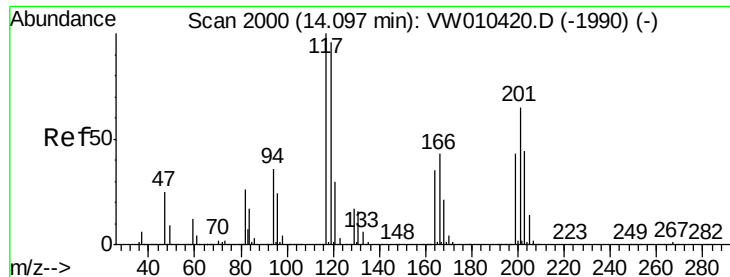
Tgt Ion: 119 Resp: 73824
Ion Ratio Lower Upper
119 100
134 29.2 13.7 41.0
91 27.3 12.2 36.4



#89
n-Butylbenzene
Concen: 4.714 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW010444.D
Acq: 18 May 2019 07:16

Tgt Ion: 91 Resp: 230655
Ion Ratio Lower Upper
91 100
92 47.2 27.7 83.0
134 43.9 13.8 41.3#





#90

Hexachloroethane

Concen: 2.984 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Instrument :

MSVOA_W

ClientSampled :

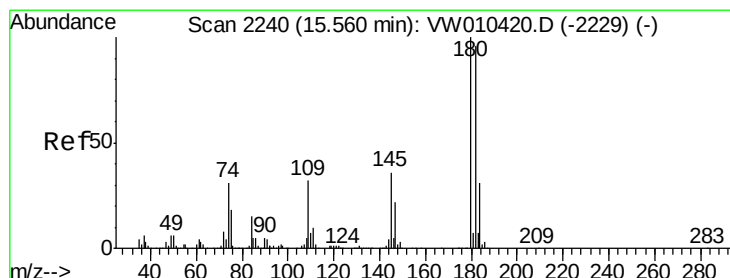
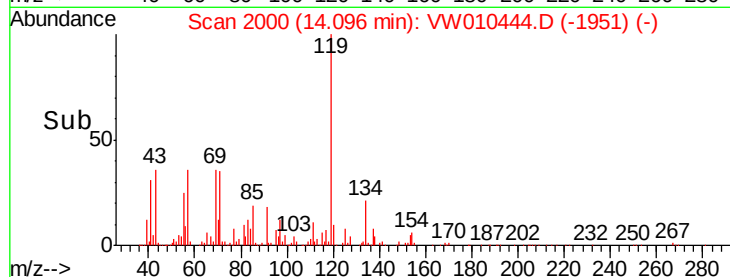
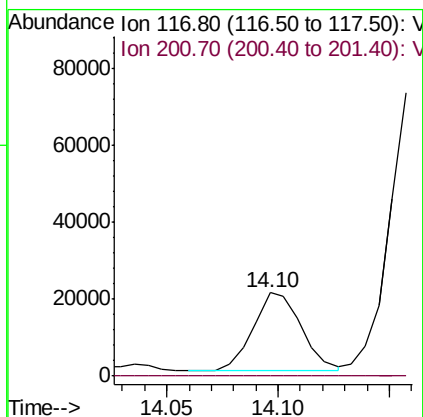
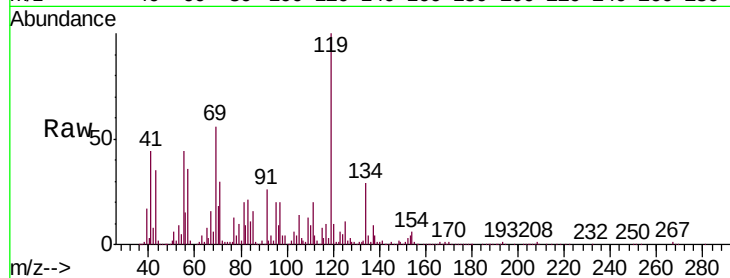
SB-04(32)

Tgt Ion:117 Resp: 30780

Ion Ratio Lower Upper

117 100

201 0.0 33.8 101.4#



#96

1,2,3-Trichlorobenzene

Concen: 1.297 ug/l

RT: 15.58 min Scan# 2243

Delta R.T. 0.02 min

Lab File: VW010444.D

Acq: 18 May 2019 07:16

Tgt Ion:180 Resp: 16516

Ion Ratio Lower Upper

180 100

182 0.0 47.6 142.9#

145 0.0 17.8 53.5#

