

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW040619\
 Data File : VW009760.D
 Acq On : 06 Apr 2019 06:36
 Operator : SY/VA
 Sample : K2188-10
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BF654

Quant Time: Apr 07 03:45:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM040319S.M
 Quant Title : VOC Analysis
 QLast Update : Sun Apr 07 03:43:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	373388	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	226837	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	52936	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	125774	25.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.96%
7) Chloroethane-d5	2.89	69	116540	26.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.12%
10) 1,1-Dichloroethene-d2	4.01	63	185318	17.64	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	70.56%
20) 2-Butanone-d5	7.08	46	72924	45.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.94%
24) Chloroform-d	7.64	84	242035	23.76	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.04%
26) 1,2-Dichloroethane-d4	8.42	65	342	0.05	ug/L	0.12
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.20%#
29) Benzene-d6	8.27	84	446653	37.51	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	150.04%#
33) 1,2-Dichloropropane-d6	9.27	67	136829	37.20	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	148.80%#
37) Toluene-d8	10.32	98	308253	28.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.00%
38) trans-1,3-Dichloropropene-	10.58	79	47472	27.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	108.24%
39) 2-Hexanone-d5	10.93	63	48384	69.79	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	139.58%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	68273	19.97	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	79.88%
61) 1,2-Dichlorobenzene-d4	13.85	152	40499	21.80	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.20%

Target Compounds

					Qvalue
13) Acetone	4.12	43	27171	15.985	ug/L 98
14) Carbon disulfide	4.37	76	13641	0.885	ug/L 96
16) Methylene chloride	4.92	84	40043	6.081	ug/L 89
30) Cyclohexane	7.95	56	15301	2.858	ug/L 91
34) Benzene	8.32	78	7108	0.521	ug/L 100
36) Methylcyclohexane	9.34	83	44709	7.614	ug/L 89
43) 4-Methyl-2-pentanone	10.21	43	2330	0.859	ug/L # 79
44) Toluene	10.39	91	92713	6.413	ug/L 99
45) trans-1,3-Dichloropropene	10.58	75	2780	0.596	ug/L # 73
47) Tetrachloroethene	10.86	164	853	0.303	ug/L # 77
49) 2-Hexanone	10.93	43	31827	15.751	ug/L # 39
53) Ethylbenzene	11.73	91	253105	15.368	ug/L 99
54) m,p-Xylene	11.83	106	309420	50.797	ug/L 97
55) o-xylene	12.16	106	203457	35.070	ug/L 99
56) Styrene	12.17	104	11779	1.170	ug/L # 1
57) Isopropylbenzene	12.46	105	115018	7.240	ug/L 97
66) 1,2-Dibromo-3-chloropropan	14.46	75	1933	6.339	ug/L # 14

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Response via : Initial Calibration

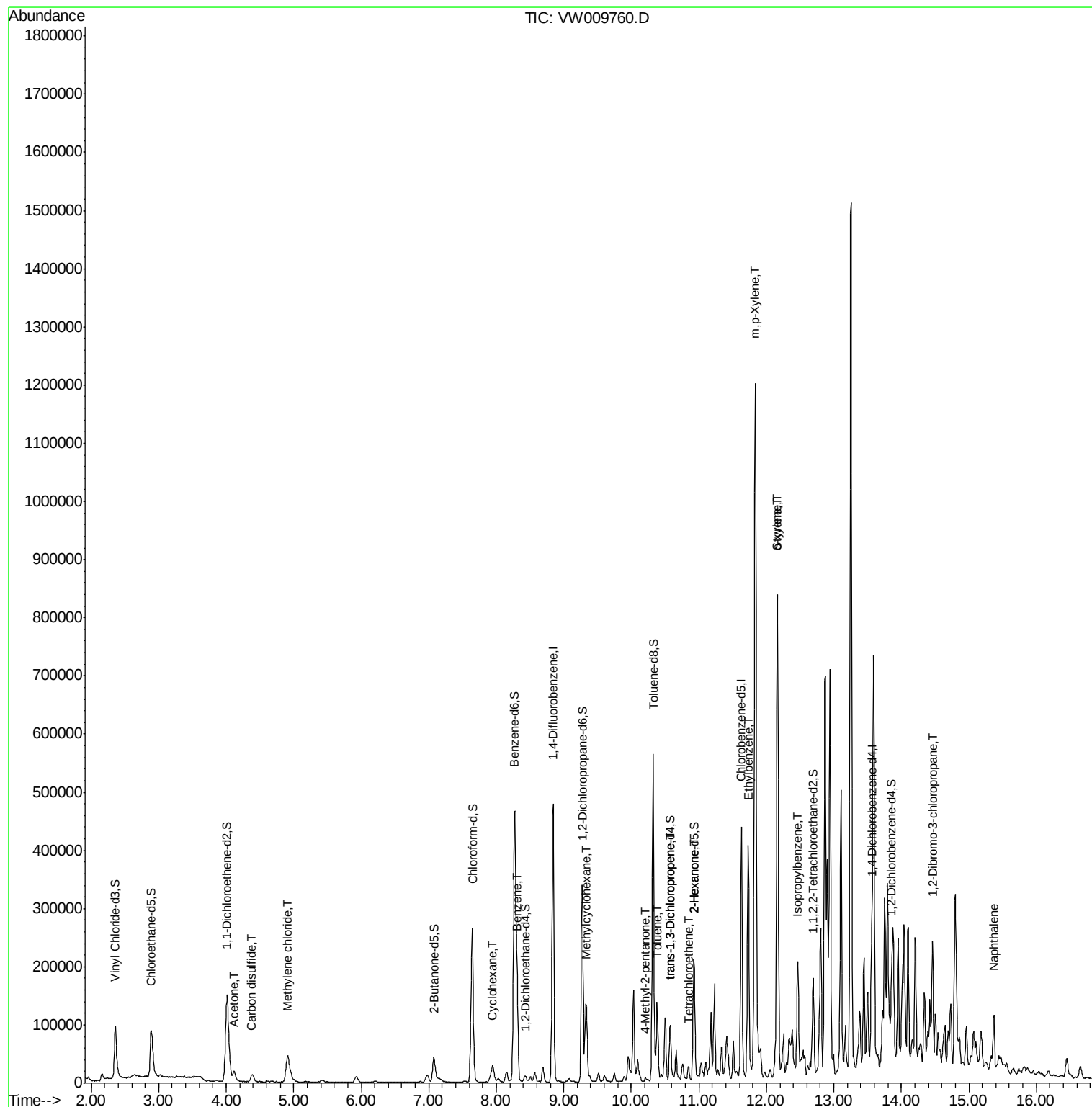
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	15.37	128	76498	19.506	ug/L	100

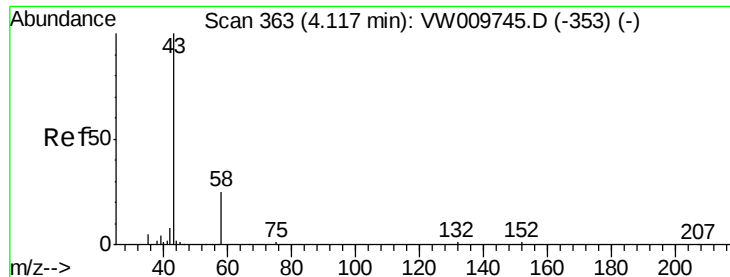
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 15.985 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW009760.D

Acq: 06 Apr 2019 06:36

Instrument :

MSVOA_W

ClientSampleID :

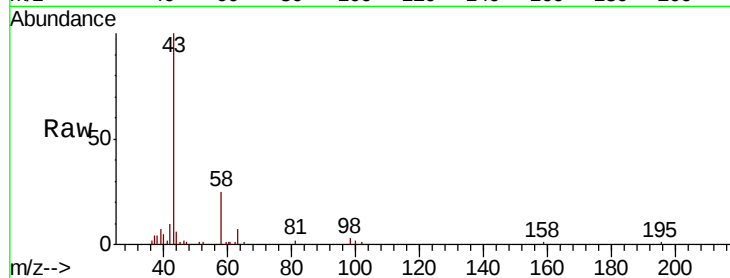
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Tgt Ion: 43 Resp: 27171

Ion Ratio Lower Upper

43 100

58 27.4 0.0 53.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

12000

10000

8000

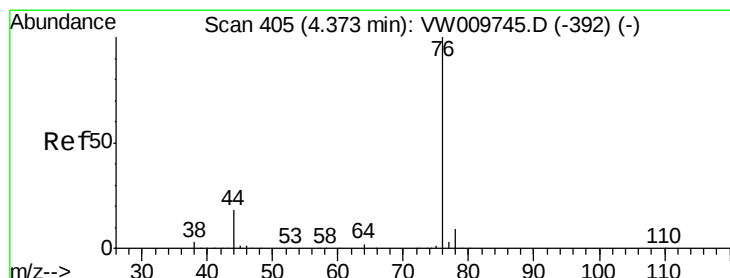
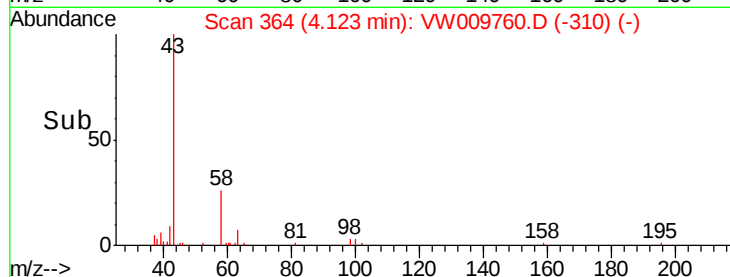
6000

4000

2000

0

Time--> 4.00 4.05 4.10 4.15 4.20



#14

Carbon disulfide

Concen: 0.885 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009760.D

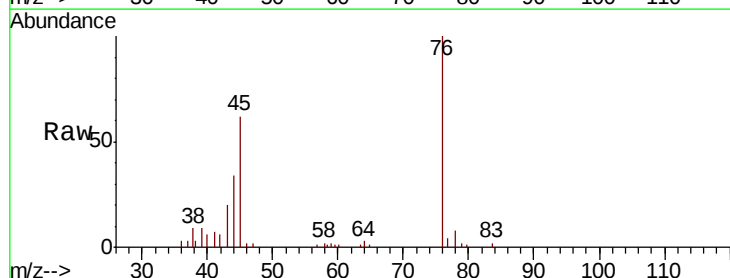
Acq: 06 Apr 2019 06:36

Tgt Ion: 76 Resp: 13641

Ion Ratio Lower Upper

76 100

78 7.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.37

5000

4000

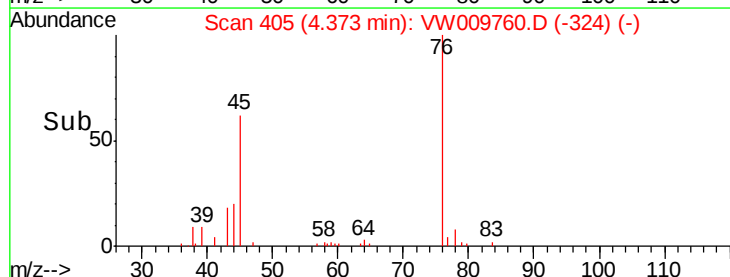
3000

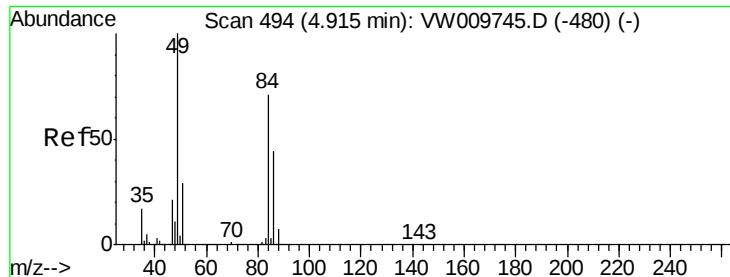
2000

1000

0

Time--> 4.30 4.35 4.40 4.45

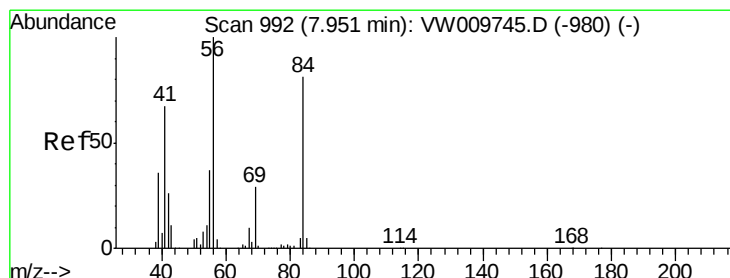
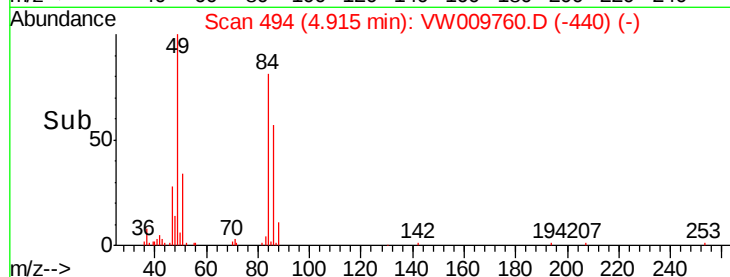
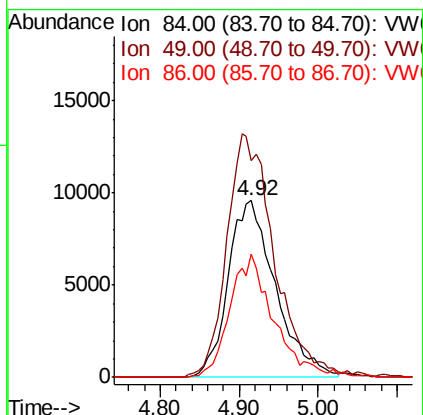
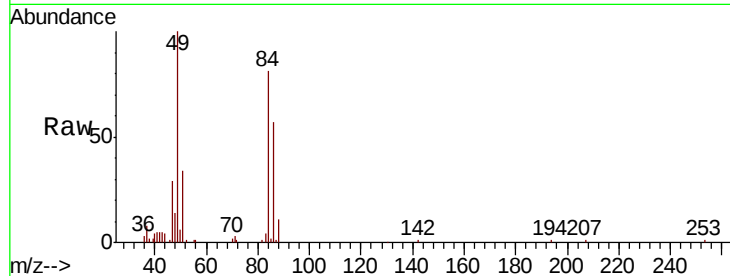




#16
Methylene chloride
Concen: 6.081 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

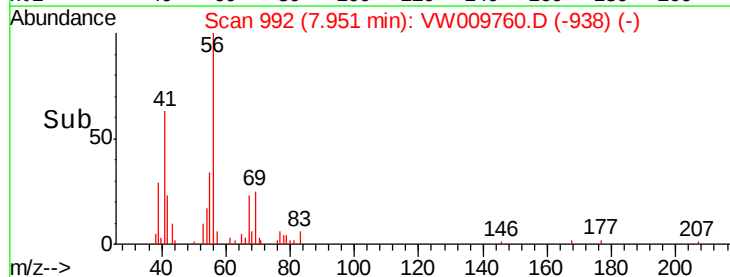
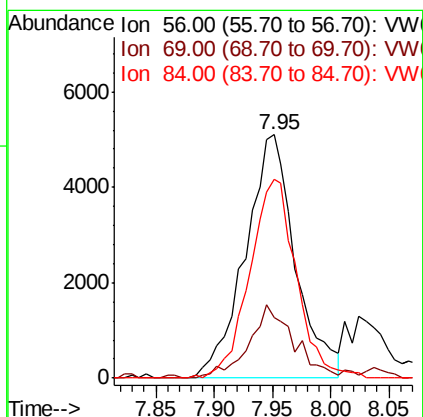
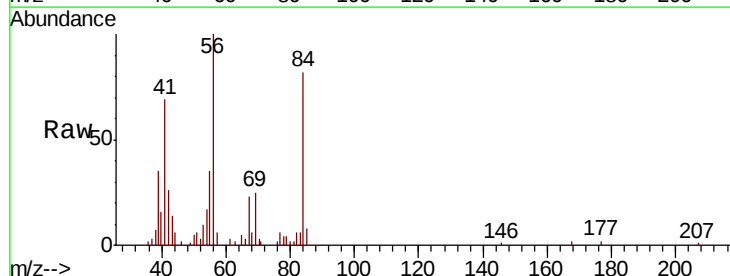
Instrument :
MSVOA_W
ClientSampled :
BF654

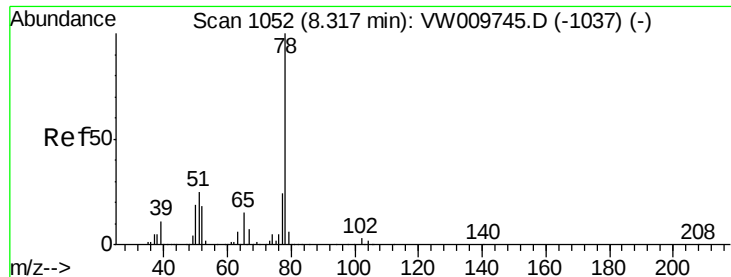
Tgt Ion: 84 Resp: 40043
Ion Ratio Lower Upper
84 100
49 122.7 98.3 182.5
86 69.4 46.4 86.2



#30
Cyclohexane
Concen: 2.858 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

Tgt Ion: 56 Resp: 15301
Ion Ratio Lower Upper
56 100
69 25.1 23.4 35.2
84 76.0 67.7 101.5

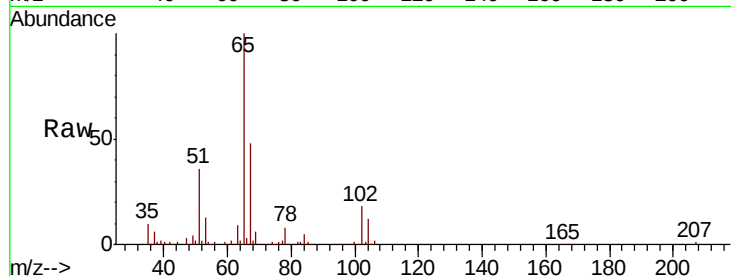




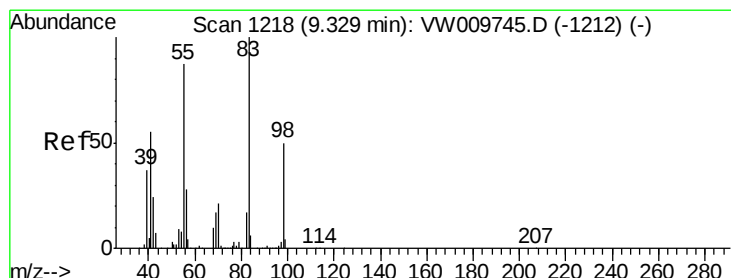
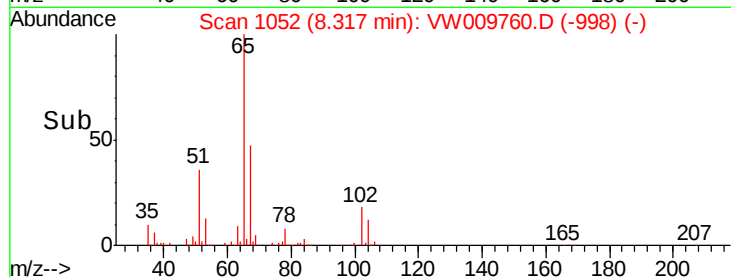
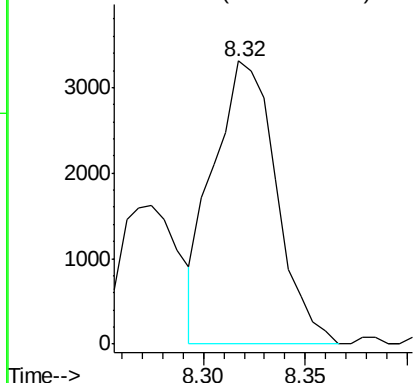
#34
Benzene
Concen: 0.521 ug/L
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

Instrument :
MSVOA_W
ClientSampleId :
BF654

Tgt Ion: 78 Resp: 7108

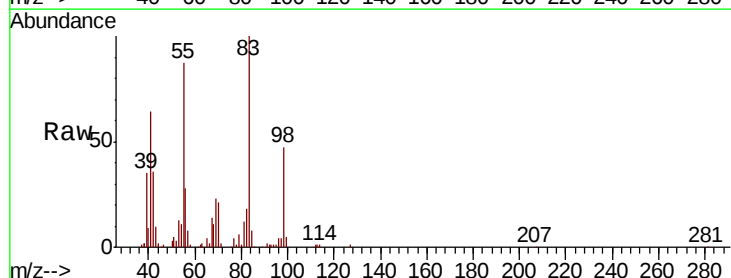


Abundance Ion 78.00 (77.70 to 78.70): VW

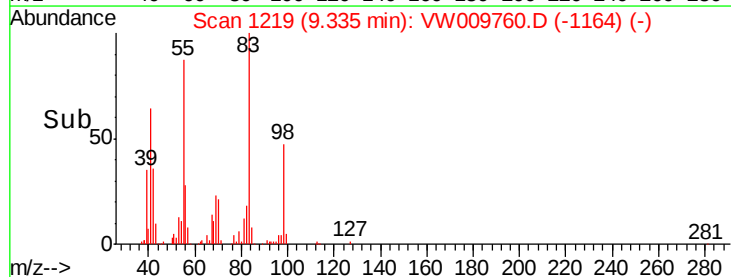
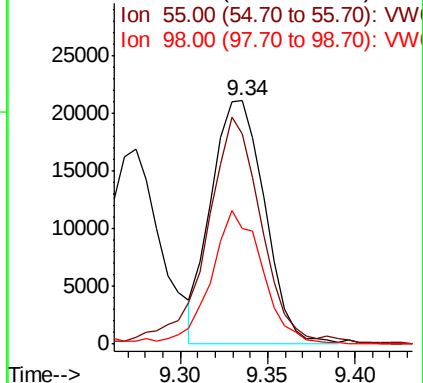


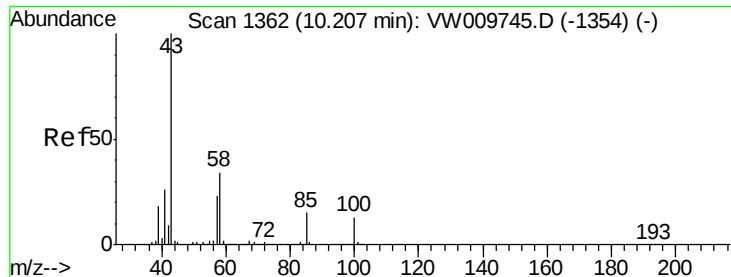
#36
Methylcyclohexane
Concen: 7.614 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

Tgt Ion: 83 Resp: 44709
Ion Ratio Lower Upper
83 100
55 95.2 66.3 99.5
98 52.8 39.4 59.0



Abundance Ion 83.00 (82.70 to 83.70): VW

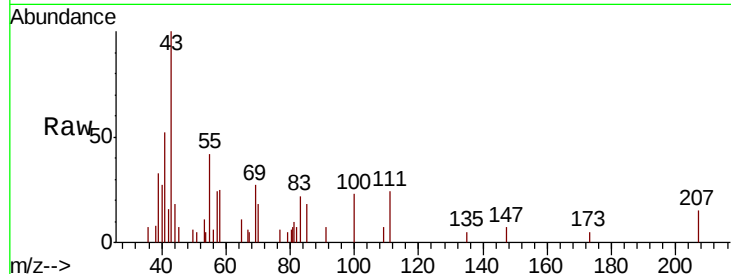




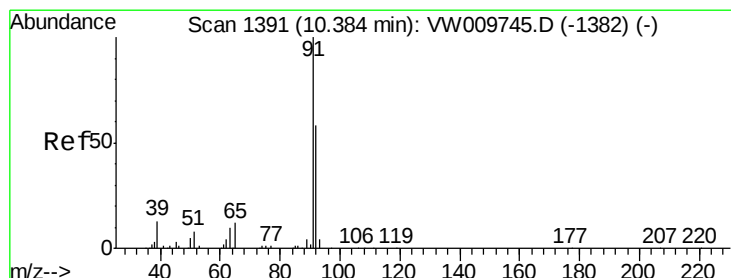
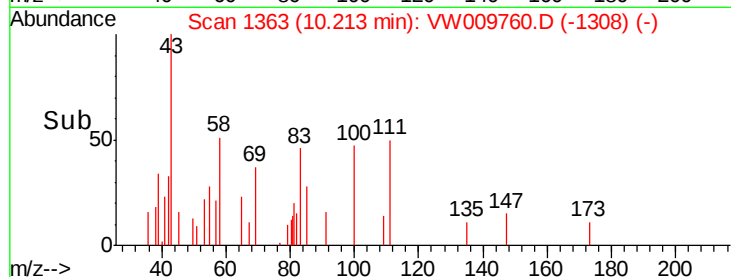
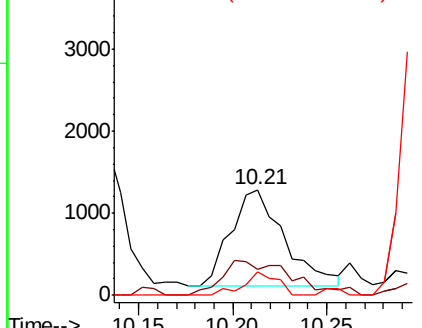
#43
4-Methyl-2-pentanone
Concen: 0.859 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

Instrument :
MSVOA_W
ClientSampleId :
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Tgt Ion: 43 Resp: 2330
Ion Ratio Lower Upper
43 100
58 19.1 28.2 42.4#
100 15.1 10.9 16.3

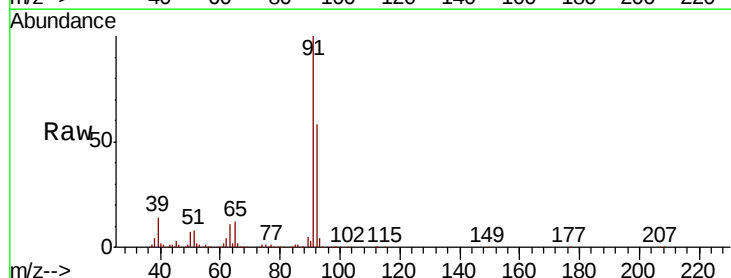


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 100.00 (99.70 to 100.70): VW

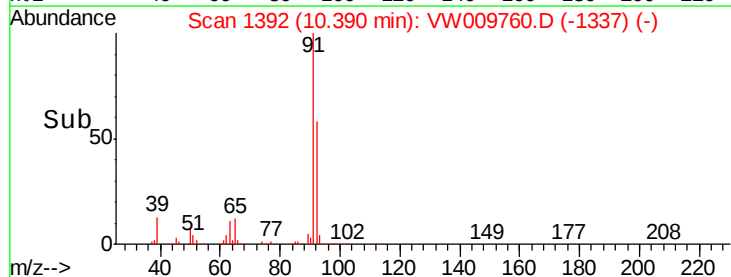
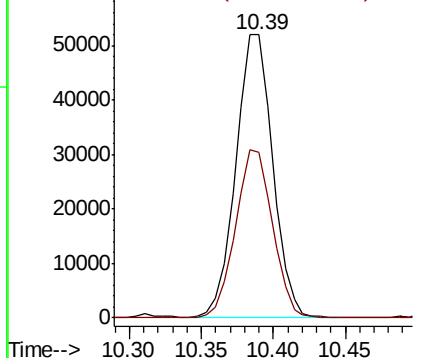


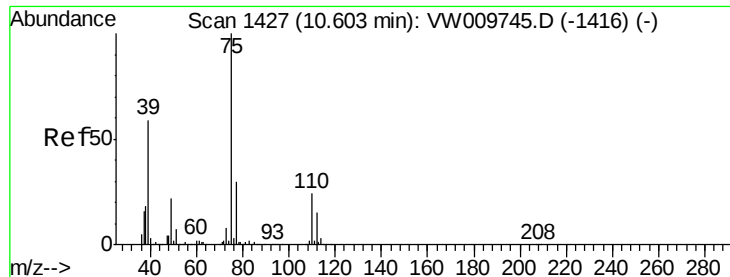
#44
Toluene
Concen: 6.413 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. 0.01 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

Tgt Ion: 91 Resp: 92713
Ion Ratio Lower Upper
91 100
92 58.5 40.5 75.1



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW





#45

trans-1,3-Dichloropropene

Concen: 0.596 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW009760.D

Acq: 06 Apr 2019 06:36

Instrument :

MSVOA_W

ClientSampleId :

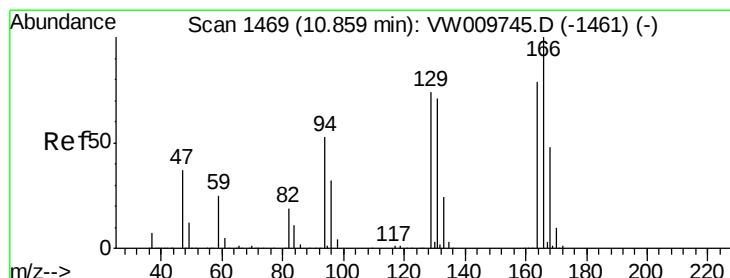
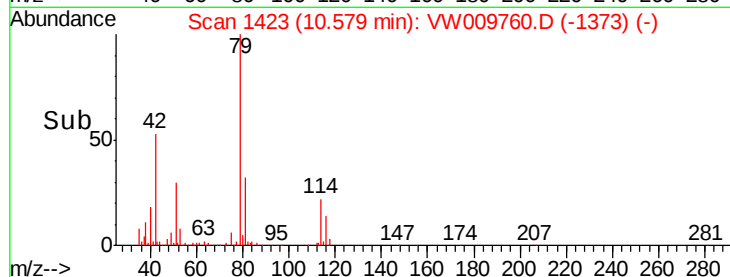
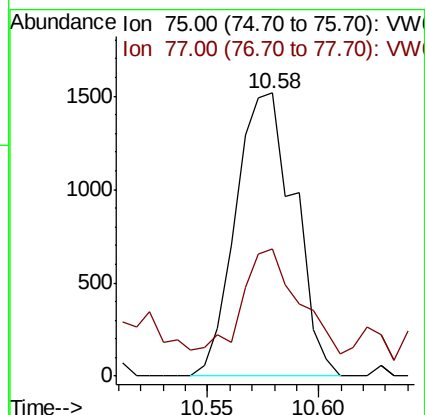
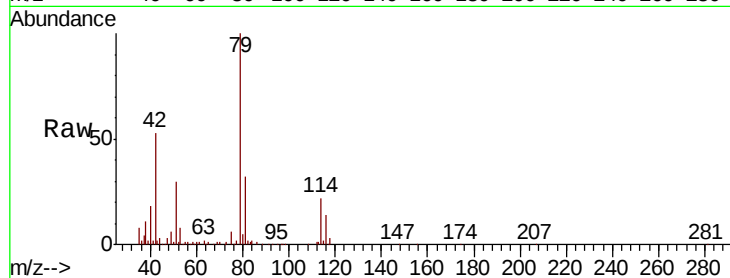
BF654

Tgt Ion: 75 Resp: 2780

Ion Ratio Lower Upper

75 100

77 45.1 21.1 39.3#



#47

Tetrachloroethene

Concen: 0.303 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009760.D

Acq: 06 Apr 2019 06:36

Tgt Ion: 164 Resp: 853

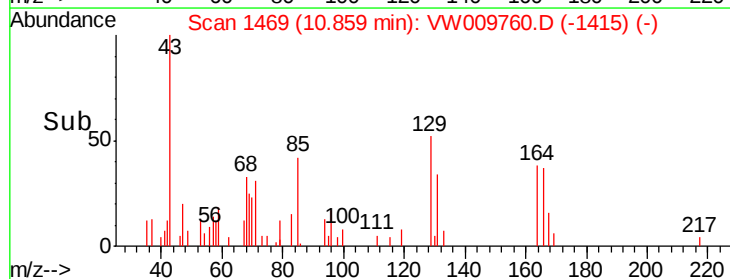
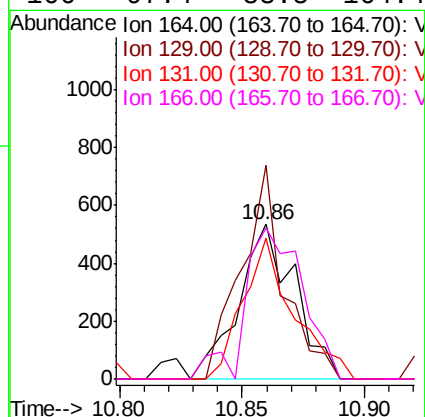
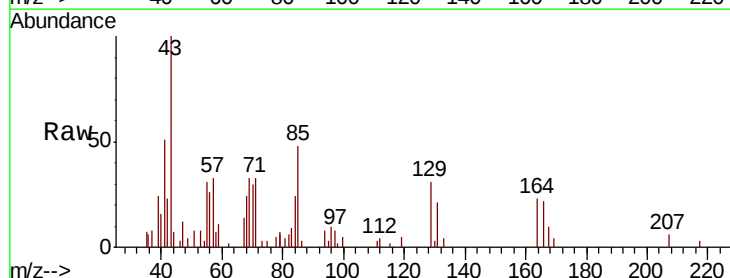
Ion Ratio Lower Upper

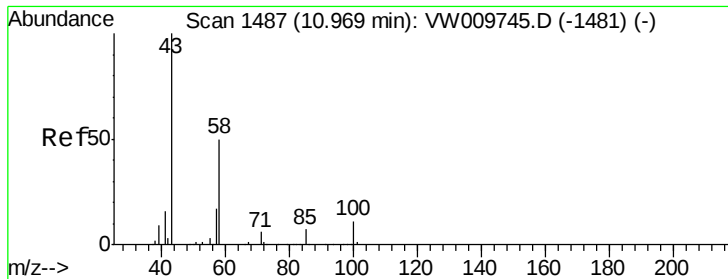
164 100

129 138.2 68.9 127.9#

131 91.4 63.1 117.1

166 97.4 88.5 164.4

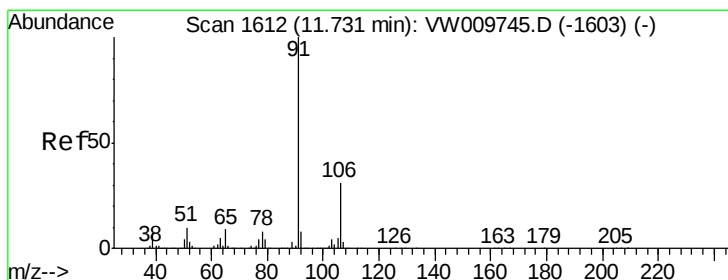
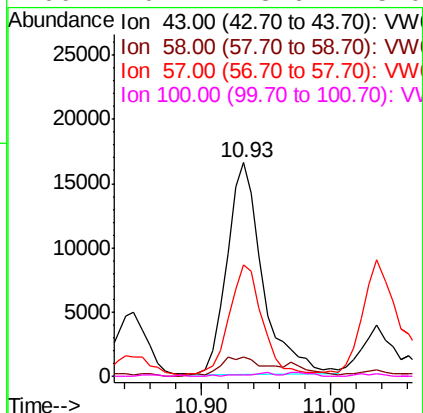
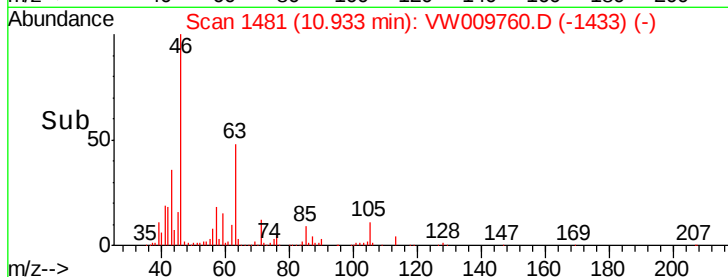
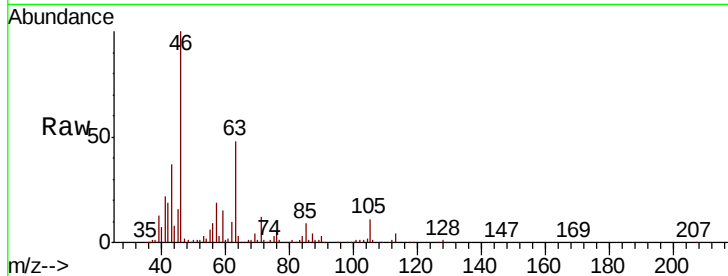




#49
2-Hexanone
Concen: 15.751 ug/L
RT: 10.93 min Scan# 1481
Delta R.T. -0.04 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

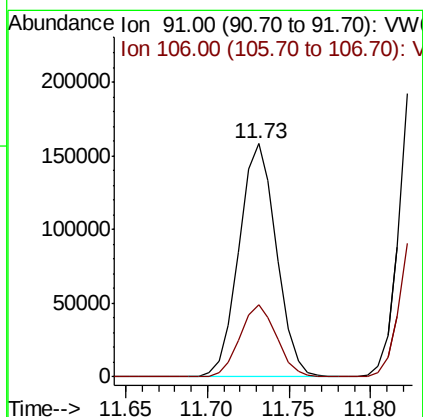
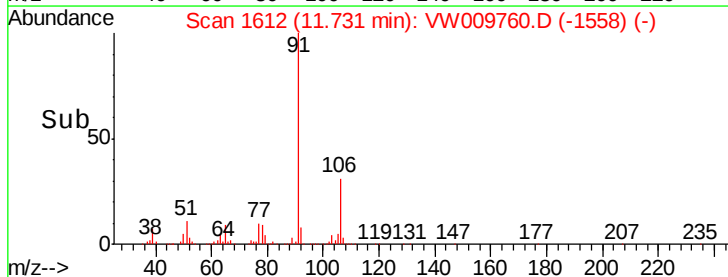
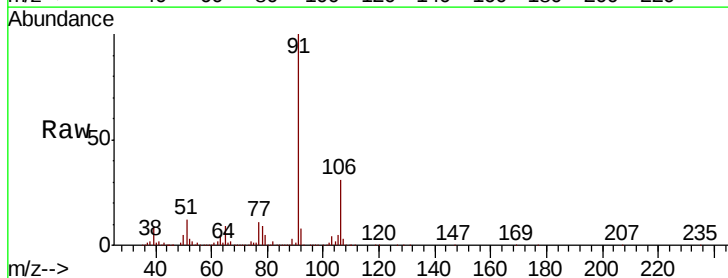
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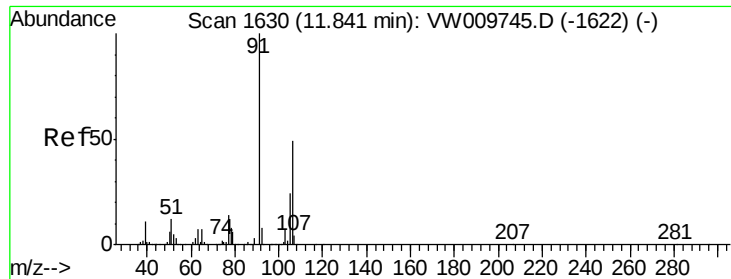
Tgt Ion: 43 Resp: 31827
Ion Ratio Lower Upper
43 100
58 4.0 38.9 58.3#
57 47.7 13.8 20.6#
100 0.2 8.6 13.0#



#53
Ethylbenzene
Concen: 15.368 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW009760.D
Acq: 06 Apr 2019 06:36

Tgt Ion: 91 Resp: 253105
Ion Ratio Lower Upper
91 100
106 31.0 21.5 39.9





#54

m,p-Xylene

Concen: 50.797 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW009760.D

Acq: 06 Apr 2019 06:36

Instrument :

MSVOA_W

ClientSampled :

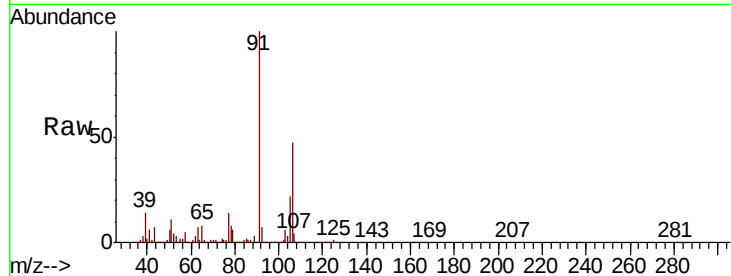
BF654

Tgt Ion:106 Resp: 309420

Ion Ratio Lower Upper

106 100

91 213.0 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

400000

300000

200000

100000

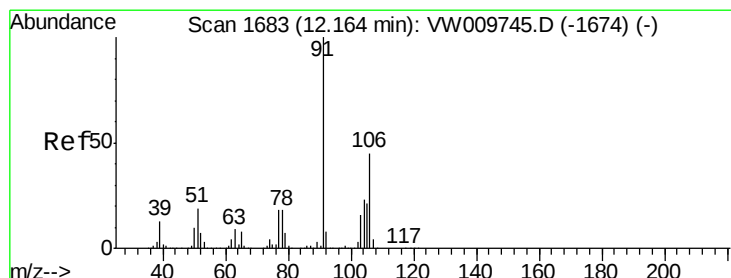
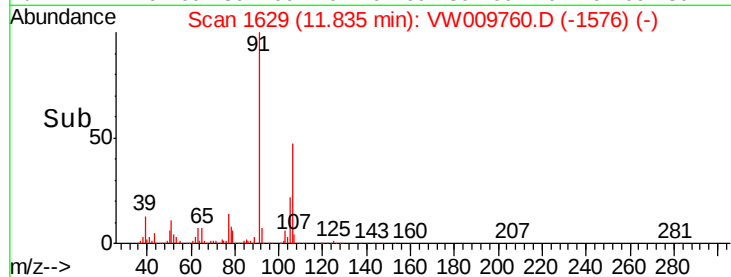
0

11.83

11.80

11.90

Time-->



#55

o-xylene

Concen: 35.070 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009760.D

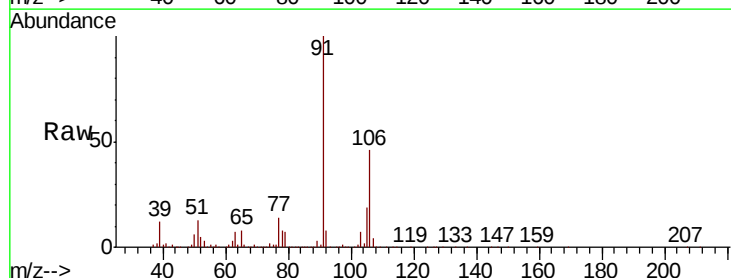
Acq: 06 Apr 2019 06:36

Tgt Ion:106 Resp: 203457

Ion Ratio Lower Upper

106 100

91 217.6 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

300000

250000

200000

150000

100000

50000

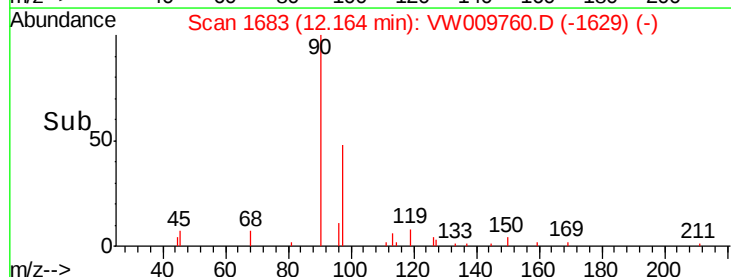
0

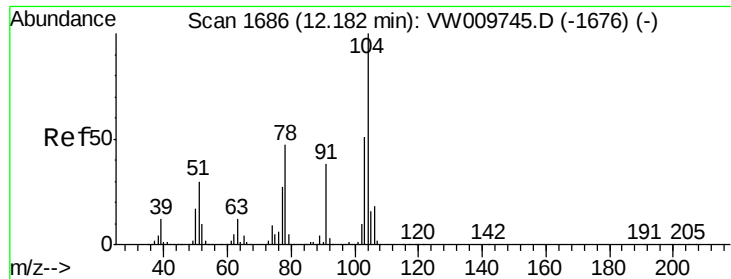
12.16

12.10

12.20

Time-->





#56

Styrene

Concen: 1.170 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VW009760.D

Acq: 06 Apr 2019 06:36

Instrument :

MSVOA_W

ClientSampled :

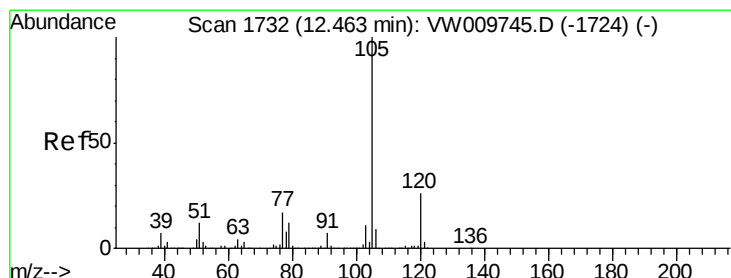
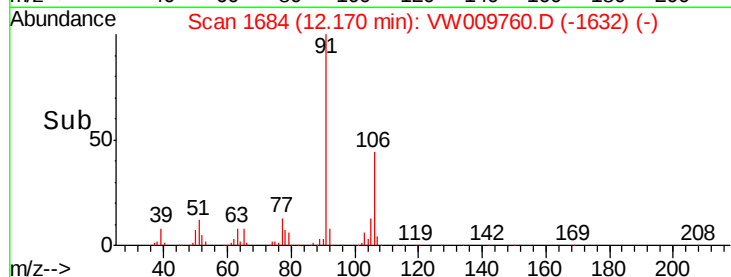
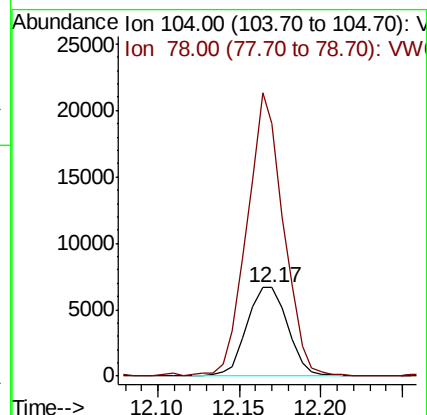
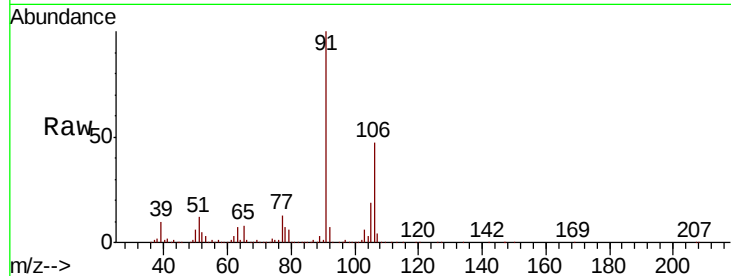
BF654

Tgt Ion:104 Resp: 11779

Ion Ratio Lower Upper

104 100

78 284.2 32.9 61.1#



#57

Isopropylbenzene

Concen: 7.240 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009760.D

Acq: 06 Apr 2019 06:36

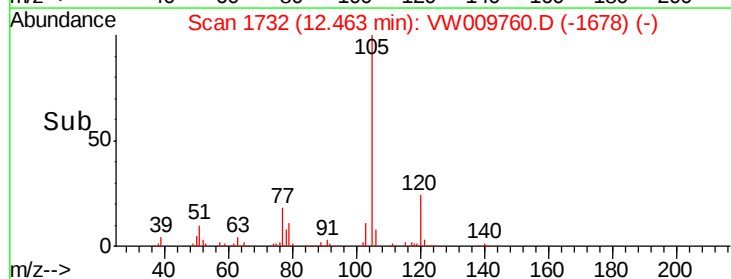
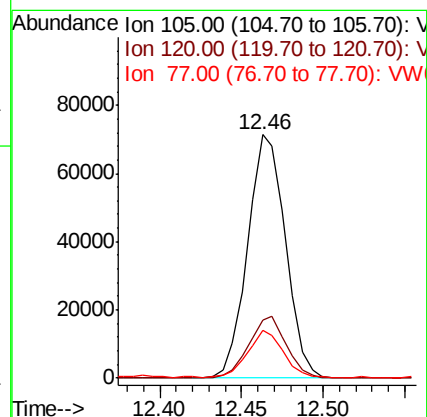
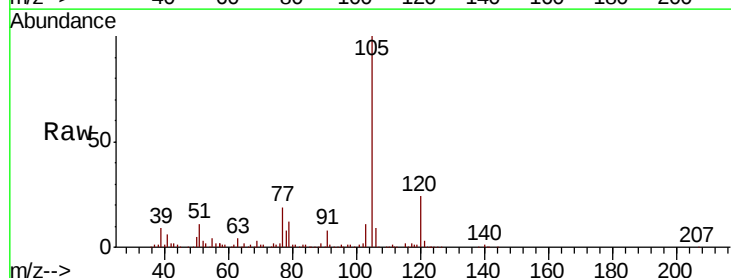
Tgt Ion:105 Resp: 115018

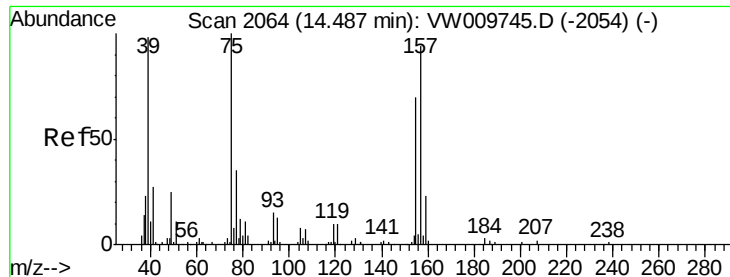
Ion Ratio Lower Upper

105 100

120 25.0 21.0 31.4

77 18.0 13.4 20.2

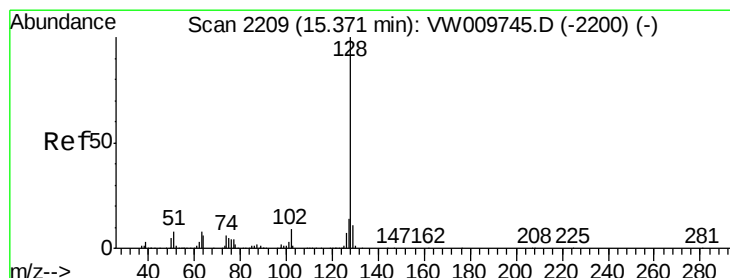
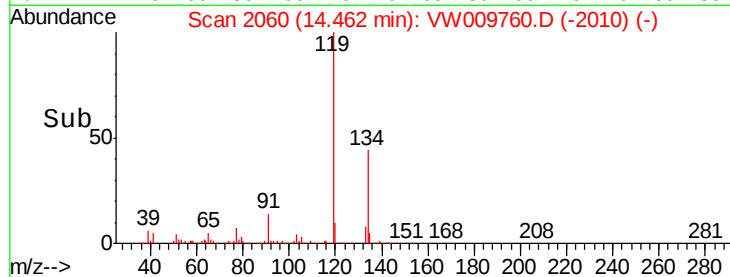
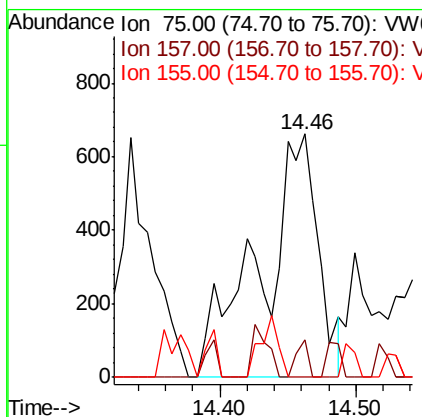
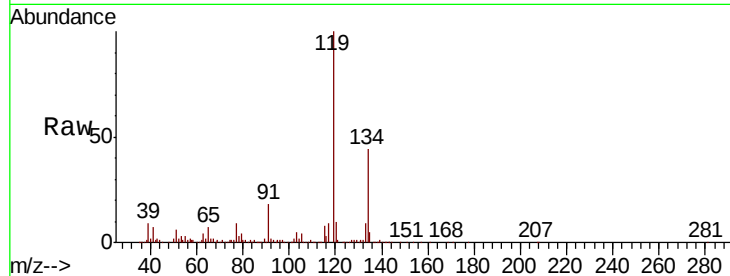




#66
 1,2-Dibromo-3-chloropropane
 Concen: 6.339 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW009760.D
 Acq: 06 Apr 2019 06:36

Instrument :
 MSVOA_W
 ClientSampled :
 BF654

Tgt Ion: 75 Resp: 1933
 Ion Ratio Lower Upper
 75 100
 157 15.6 77.2 115.8#
 155 0.0 61.9 92.9#



#69
 Naphthalene
 Concen: 19.506 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW009760.D
 Acq: 06 Apr 2019 06:36

Tgt Ion: 128 Resp: 76498
 Ion Ratio Lower Upper
 128 100
 129 11.0 8.5 12.7
 127 13.5 10.8 16.2

