

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032219\
 Data File : VW009361.D
 Acq On : 22 Mar 2019 23:21
 Operator : SY/VA
 Sample : K2031-01
 Misc : 5.48G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BF5S1

Quant Time: Mar 23 01:37:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 23 01:25:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	291602	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	187063	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	48350	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	90579	25.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.96%
7) Chloroethane-d5	2.89	69	95716	23.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.88%
10) 1,1-Dichloroethene-d2	4.01	63	122622	16.28	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	65.12%
20) 2-Butanone-d5	7.08	46	90198	62.59	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	125.18%
24) Chloroform-d	7.64	84	196263	24.66	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.64%
26) 1,2-Dichloroethane-d4	8.31	65	133207	27.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	111.16%
29) Benzene-d6	8.27	84	328167	31.81	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	127.24%
33) 1,2-Dichloropropane-d6	9.27	67	108389	34.98	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	139.92%#
37) Toluene-d8	10.32	98	217569	22.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.24%
38) trans-1,3-Dichloropropene-	10.58	79	43427	27.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	111.64%
39) 2-Hexanone-d5	10.93	63	60612	80.77	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	161.54%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	76591	25.10	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.40%
61) 1,2-Dichlorobenzene-d4	13.86	152	38541	20.79	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	83.16%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acetone	4.13	43	12867	10.888	ug/L	88
16) Methylene chloride	4.91	84	30458	7.163	ug/L	83
21) 2-Butanone	7.17	43	2849	1.746	ug/L	94
34) Benzene	8.31	78	3579	0.350	ug/L	100
36) Methylcyclohexane	9.32	83	6198	1.313	ug/L #	83
44) Toluene	10.38	91	22200	1.983	ug/L	89
45) trans-1,3-Dichloropropene	10.58	75	2472	0.664	ug/L	98
47) Tetrachloroethene	10.86	164	726	0.315	ug/L #	48
49) 2-Hexanone	10.93	43	16954	10.111	ug/L #	55
53) Ethylbenzene	11.73	91	31963	2.540	ug/L	97
54) m,p-Xylene	11.83	106	65474	13.693	ug/L	99
55) o-xylene	12.16	106	40746	8.735	ug/L	93
57) Isopropylbenzene	12.46	105	17142	1.372	ug/L #	96
68) 1,2,4-trichlorobenzene	15.13	180	533	0.282	ug/L #	19
69) Naphthalene	15.37	128	17001	4.343	ug/L	95
70) 1,2,3-Trichlorobenzene	15.57	180	522	0.295	ug/L #	55

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Quant Title : VOC Analysis
QLast Update : Sat Mar 23 01:25:26 2019
Response via : Initial Calibration

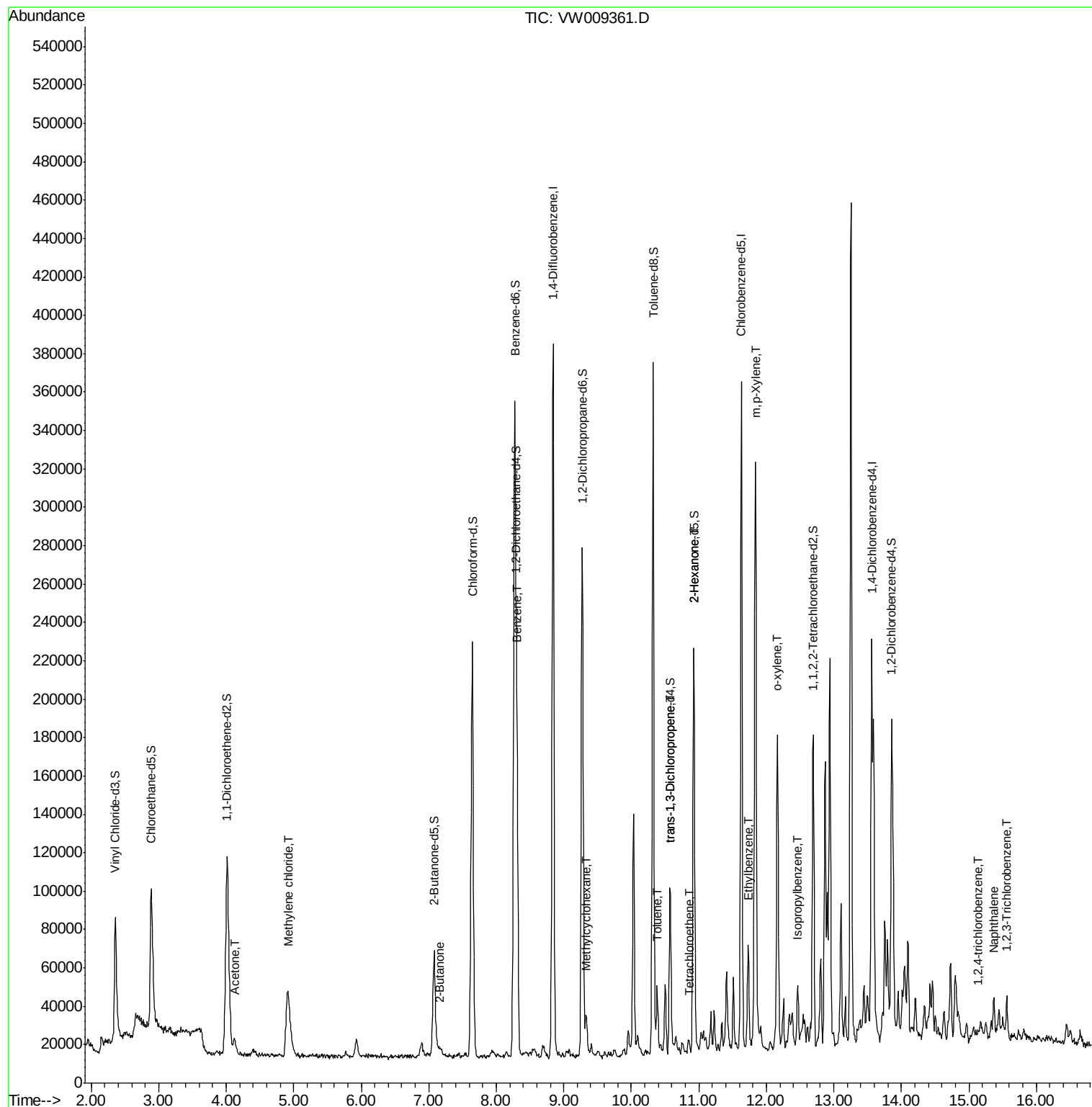
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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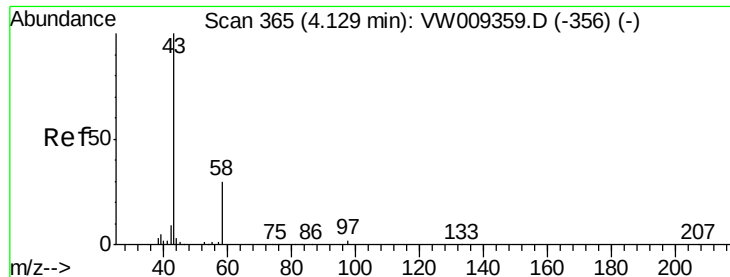
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 10.888 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Instrument :

MSVOA_W

ClientSampleId :

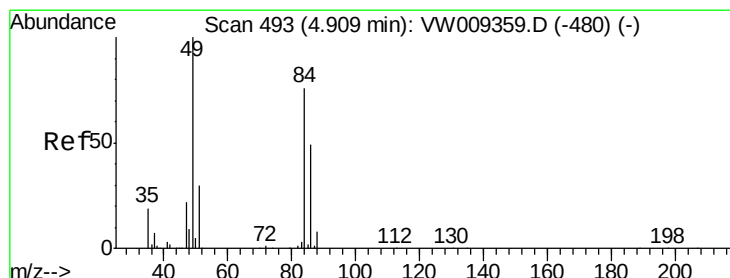
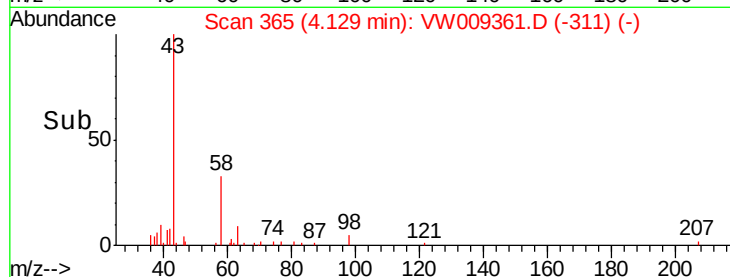
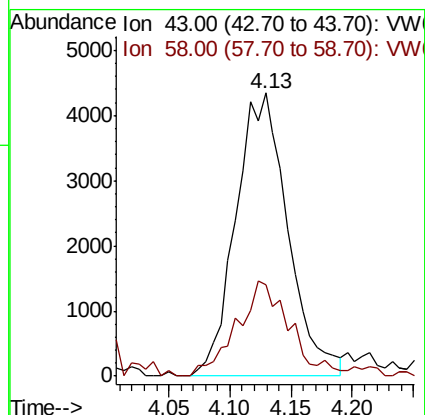
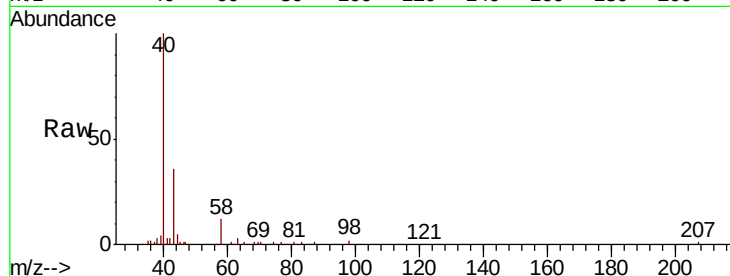
BF5S1

Tgt Ion: 43 Resp: 12867

Ion Ratio Lower Upper

43 100

58 21.9 0.0 56.2



#16

Methylene chloride

Concen: 7.163 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.00 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

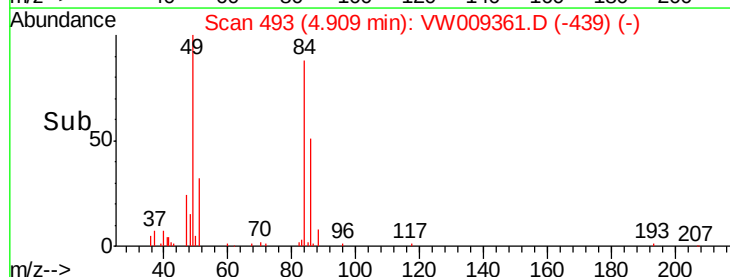
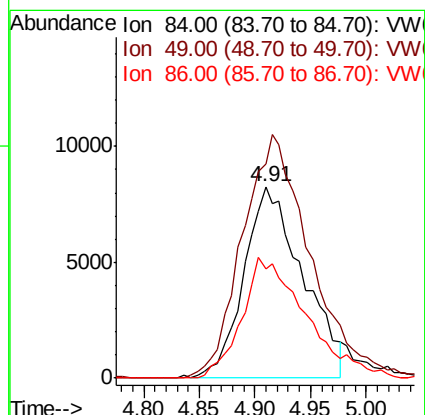
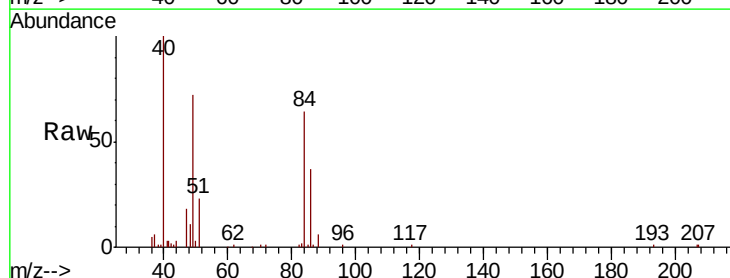
Tgt Ion: 84 Resp: 30458

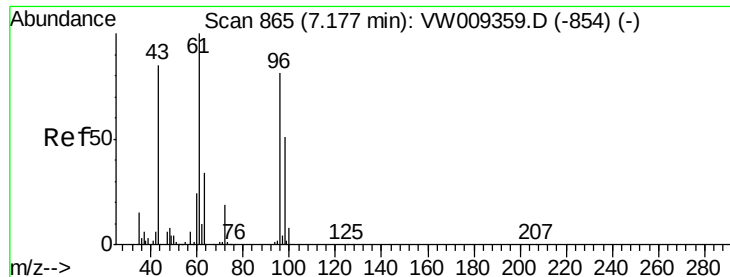
Ion Ratio Lower Upper

84 100

49 112.3 96.0 178.2

86 57.3 44.4 82.5





#21

2-Butanone

Concen: 1.746 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Instrument :

MSVOA_W

ClientSampleId :

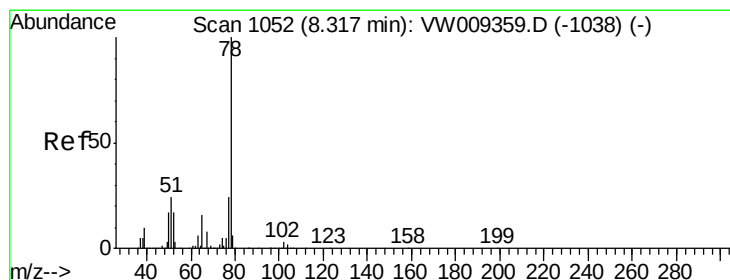
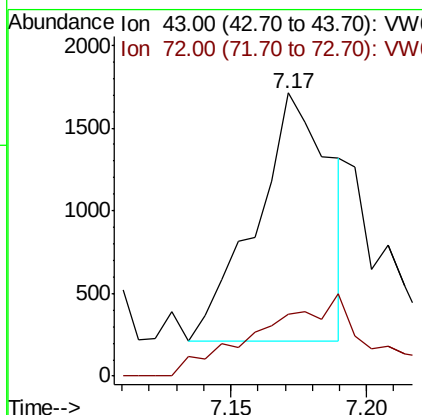
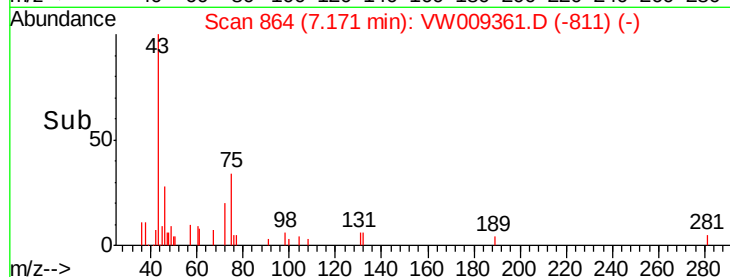
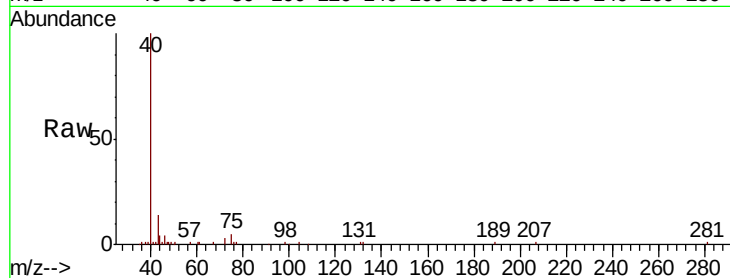
BF5S1

Tgt Ion: 43 Resp: 2849

Ion Ratio Lower Upper

43 100

72 29.2 13.1 39.1



#34

Benzene

Concen: 0.350 ug/L

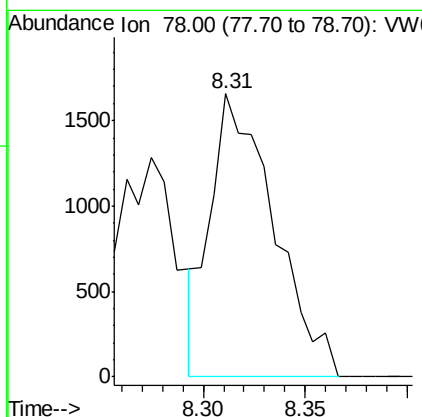
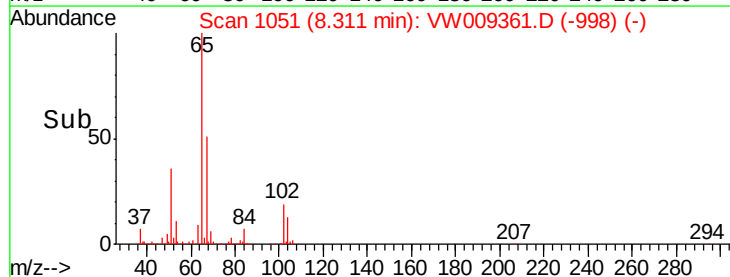
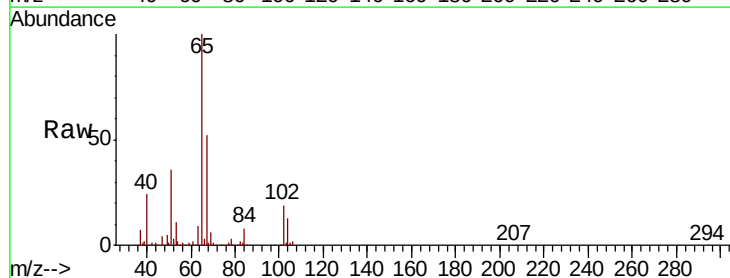
RT: 8.31 min Scan# 1051

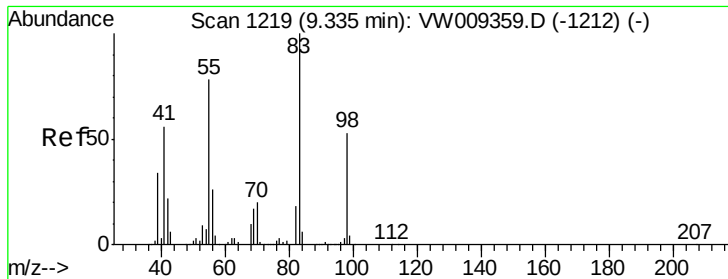
Delta R.T. -0.01 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Tgt Ion: 78 Resp: 3579

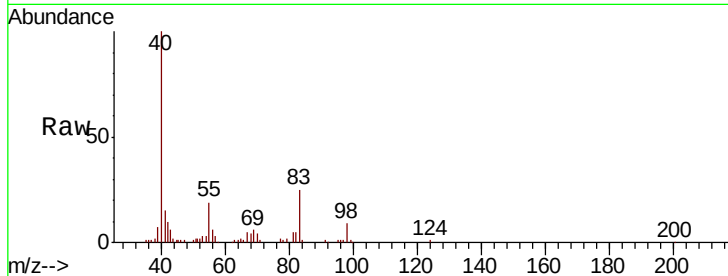




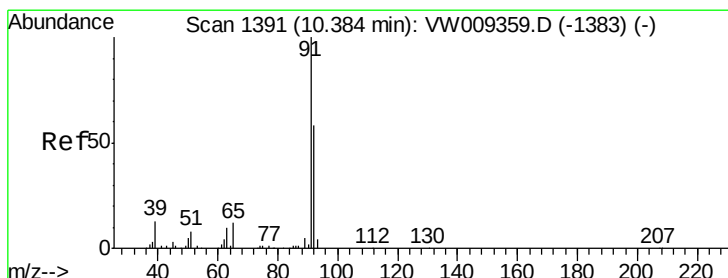
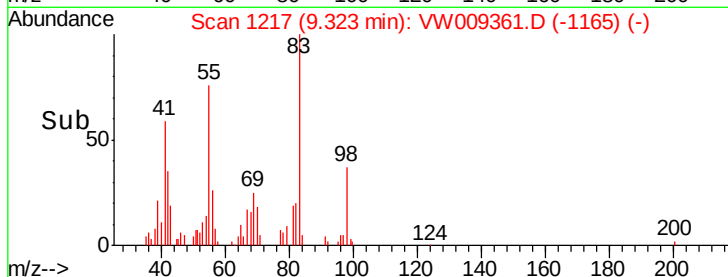
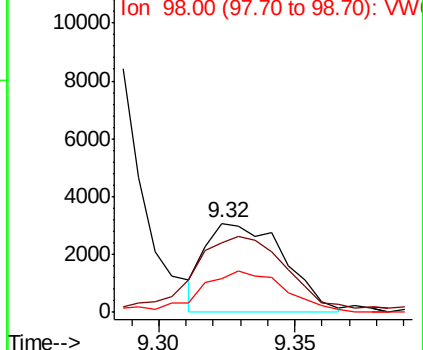
#36
Methylcyclohexane
Concen: 1.313 ug/L
RT: 9.32 min Scan# 1217
Delta R.T. -0.01 min
Lab File: VW009361.D
Acq: 22 Mar 2019 23:21

Instrument :
MSVOA_W
ClientSampled :
BF5S1

Tgt Ion: 83 Resp: 6198
Ion Ratio Lower Upper
83 100
55 103.3 63.5 95.3#
98 48.7 39.8 59.8

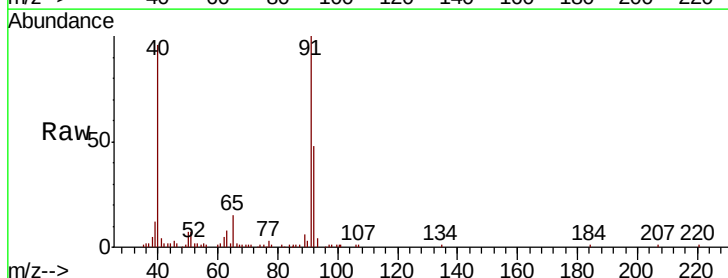


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

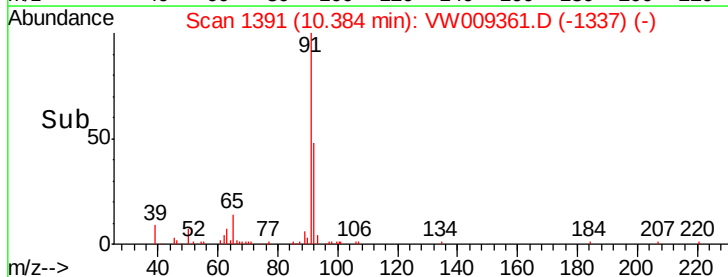
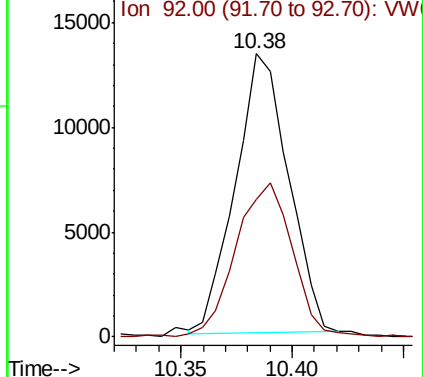


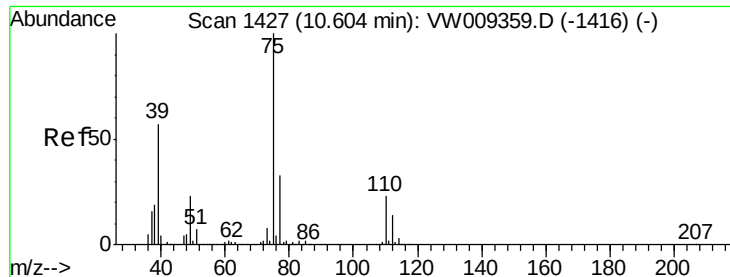
#44
Toluene
Concen: 1.983 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW009361.D
Acq: 22 Mar 2019 23:21

Tgt Ion: 91 Resp: 22200
Ion Ratio Lower Upper
91 100
92 48.5 39.8 73.8



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: 0.664 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Instrument :

MSVOA_W

ClientSampleId :

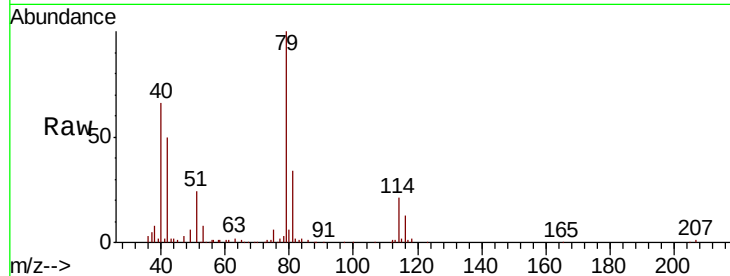
BF5S1

Tgt Ion: 75 Resp: 2472

Ion Ratio Lower Upper

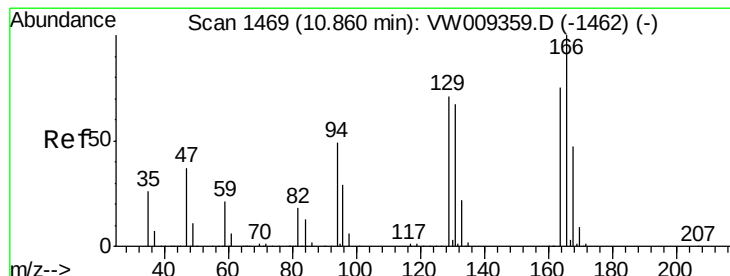
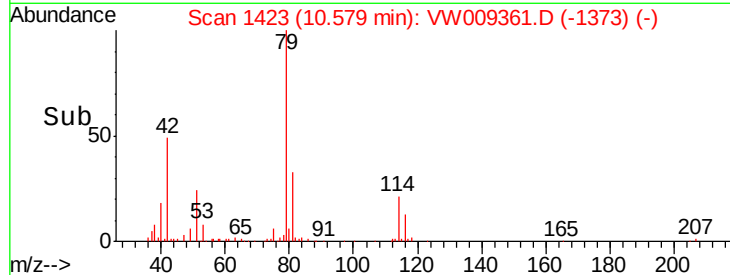
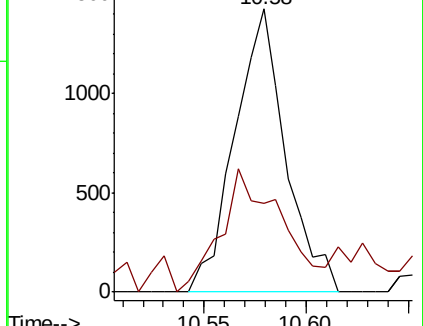
75 100

77 31.2 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#47

Tetrachloroethene

Concen: 0.315 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Tgt Ion: 164 Resp: 726

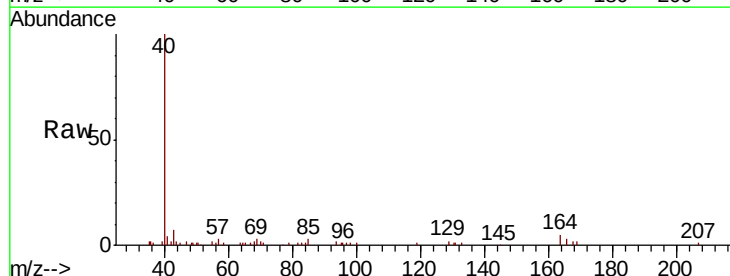
Ion Ratio Lower Upper

164 100

129 43.6 66.5 123.5#

131 60.4 62.6 116.3#

166 54.5 91.6 170.0#

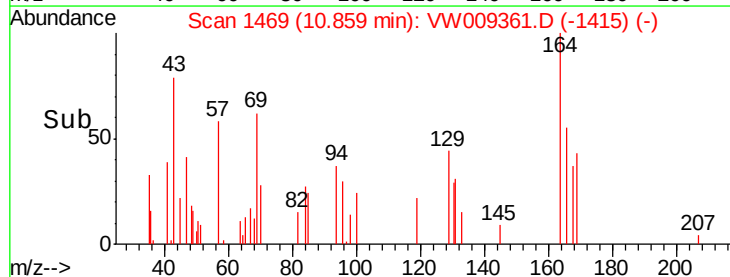
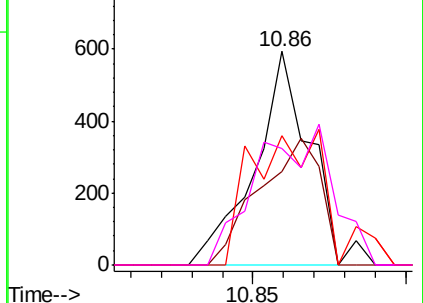


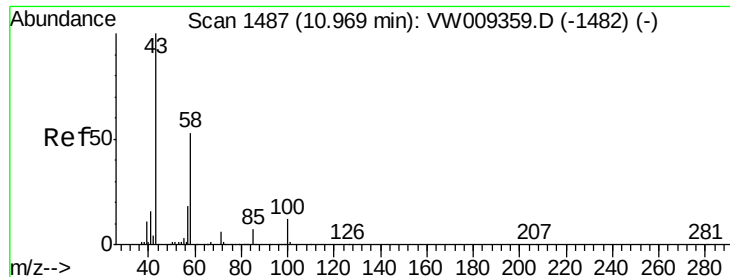
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 10.111 ug/L

RT: 10.93 min Scan# 1480

Delta R.T. -0.04 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Instrument :

MSVOA_W

ClientSampleId :

BF5S1

Tgt Ion: 43 Resp: 16954

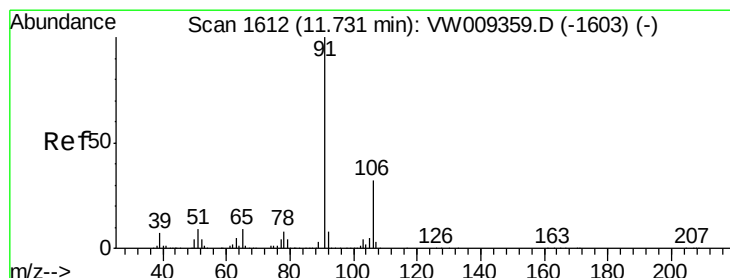
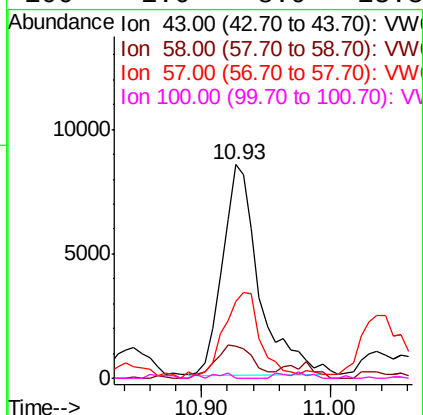
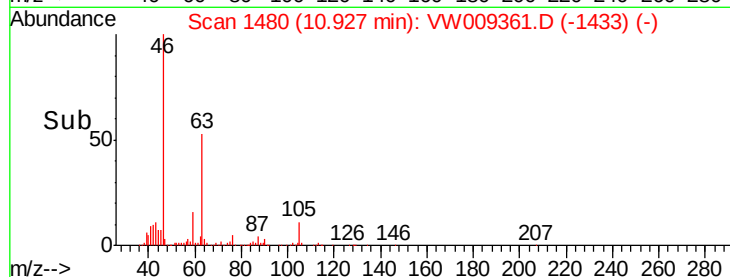
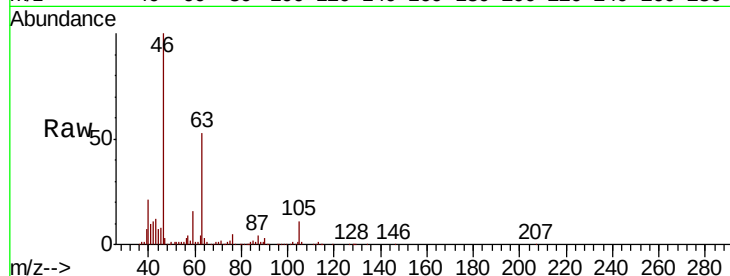
Ion Ratio Lower Upper

43 100

58 15.8 39.2 58.8#

57 38.7 14.2 21.2#

100 1.0 8.9 13.3#



#53

Ethylbenzene

Concen: 2.540 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009361.D

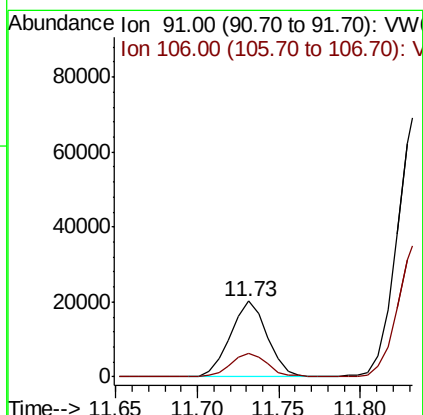
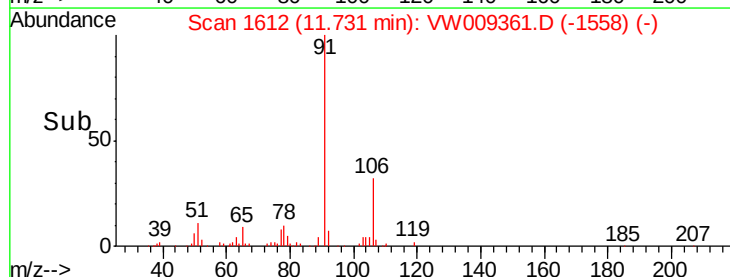
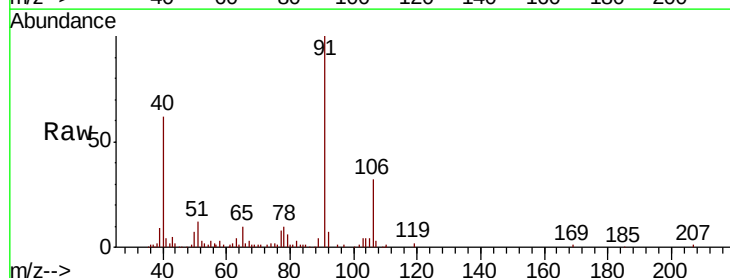
Acq: 22 Mar 2019 23:21

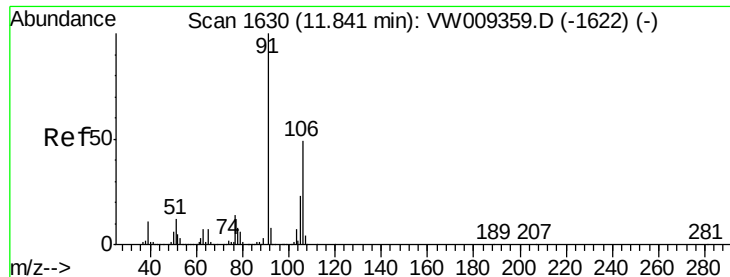
Tgt Ion: 91 Resp: 31963

Ion Ratio Lower Upper

91 100

106 31.8 21.0 39.0





#54

m,p-Xylene

Concen: 13.693 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Instrument :

MSVOA_W

ClientSampled :

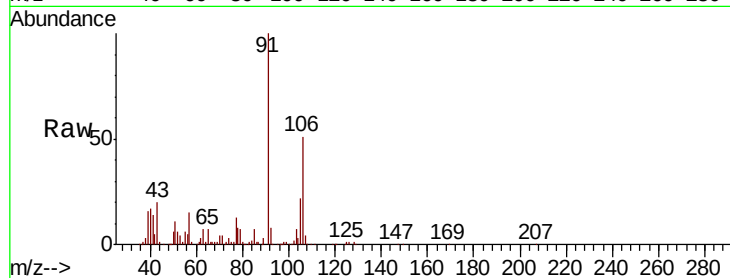
BF5S1

Tgt Ion:106 Resp: 65474

Ion Ratio Lower Upper

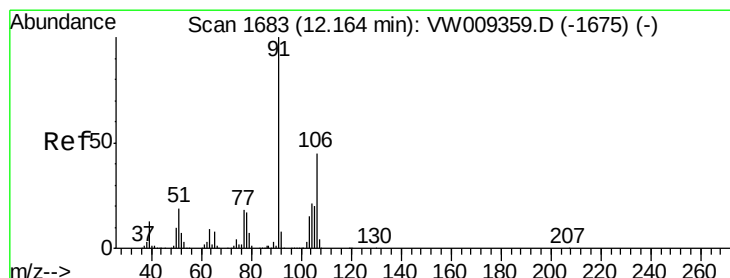
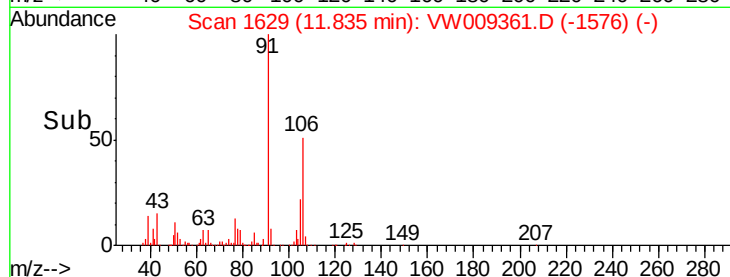
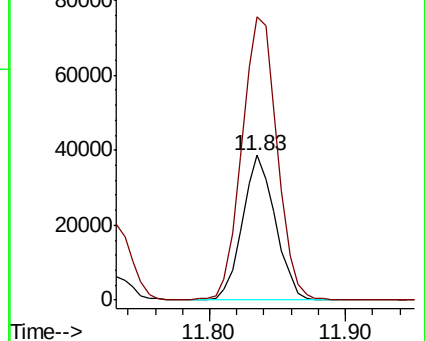
106 100

91 195.8 138.4 257.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 8.735 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW009361.D

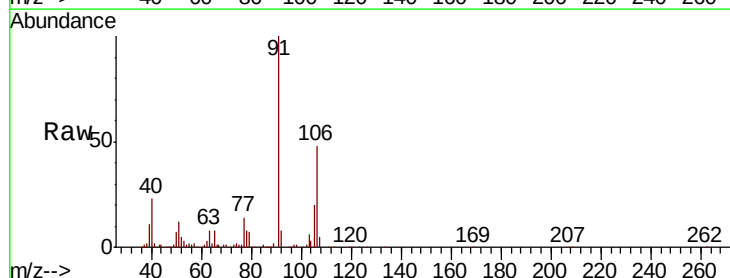
Acq: 22 Mar 2019 23:21

Tgt Ion:106 Resp: 40746

Ion Ratio Lower Upper

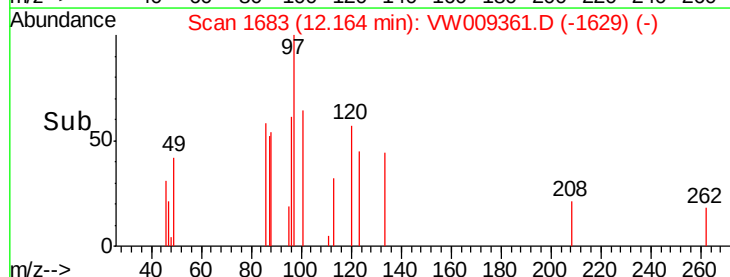
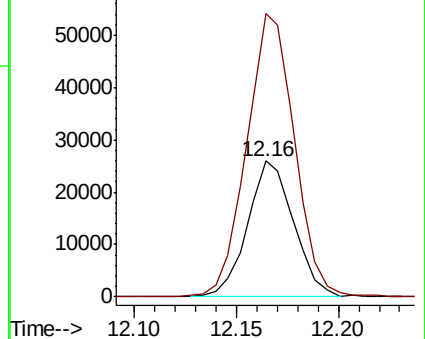
106 100

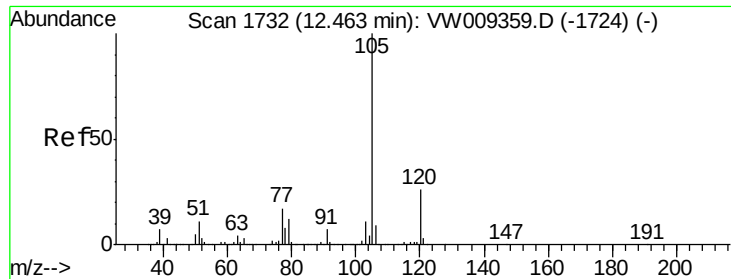
91 208.3 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 1.372 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW009361.D

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BF5S1

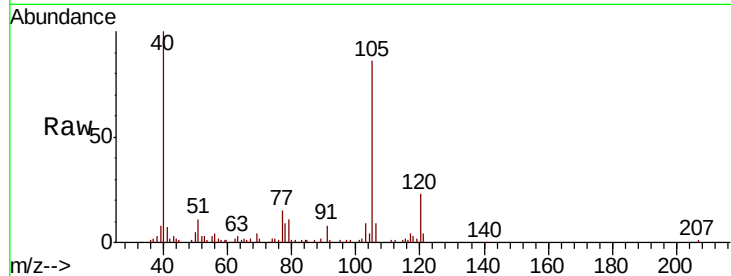
Tgt Ion:105 Resp: 17142

Ion Ratio Lower Upper

105 100

120 26.2 21.3 31.9

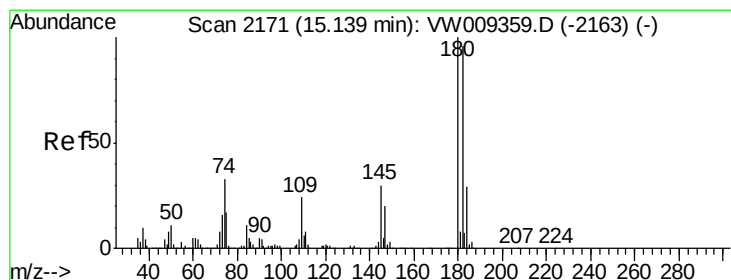
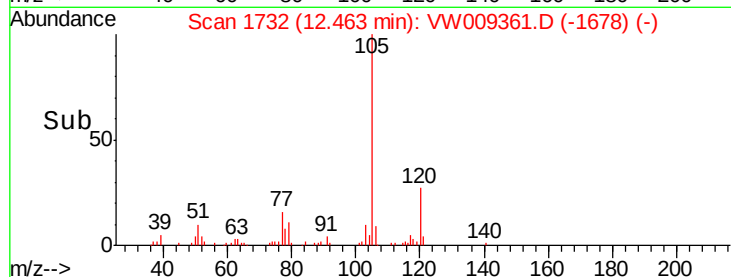
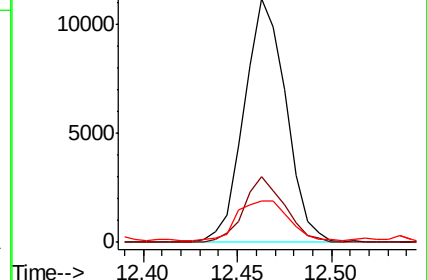
77 20.2 13.1 19.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#68

1,2,4-trichlorobenzene

Concen: 0.282 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.01 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

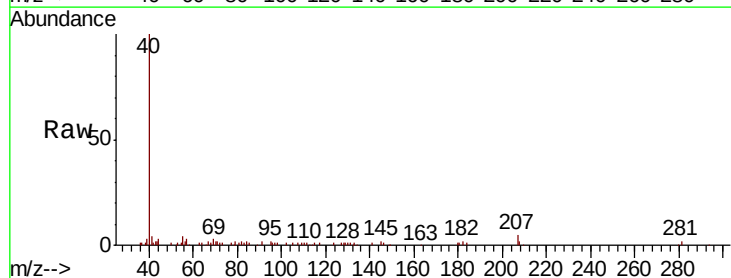
Tgt Ion:180 Resp: 533

Ion Ratio Lower Upper

180 100

182 0.0 75.5 113.3#

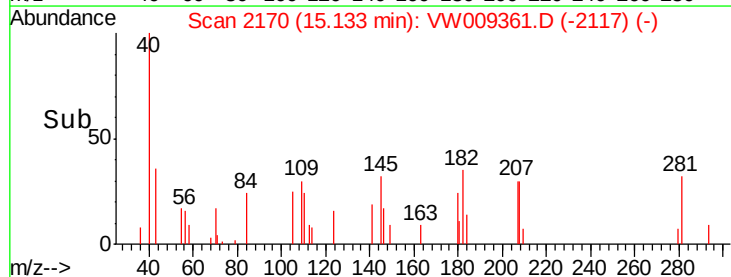
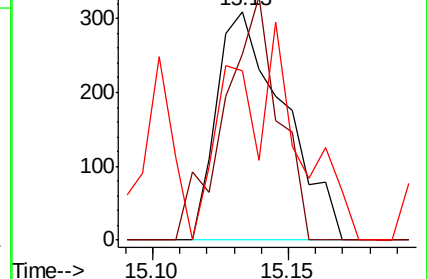
145 46.3 24.1 36.1#

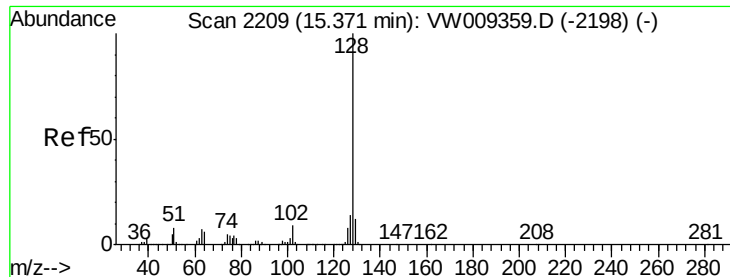


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 4.343 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

Instrument :

MSVOA_W

ClientSampleId :

BF5S1

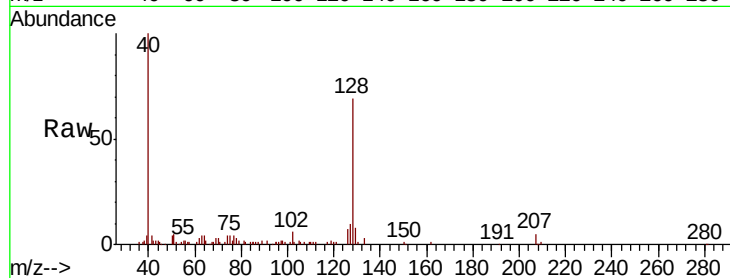
Tgt Ion:128 Resp: 17001

Ion Ratio Lower Upper

128 100

129 12.8 8.7 13.1

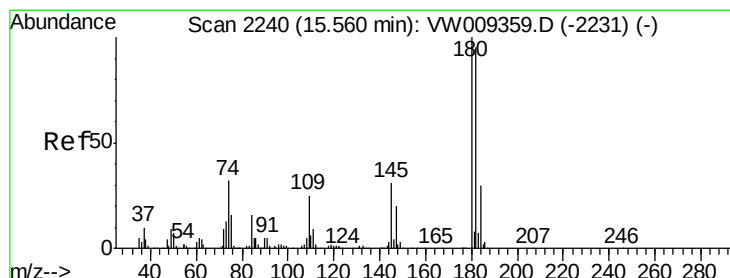
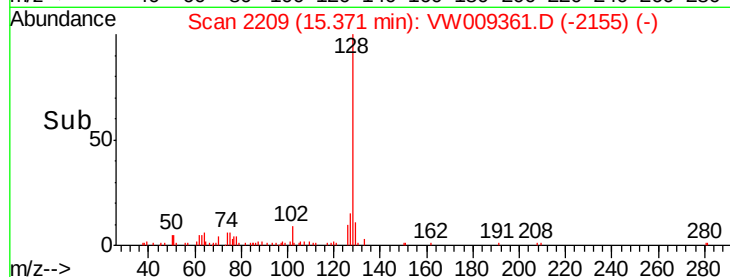
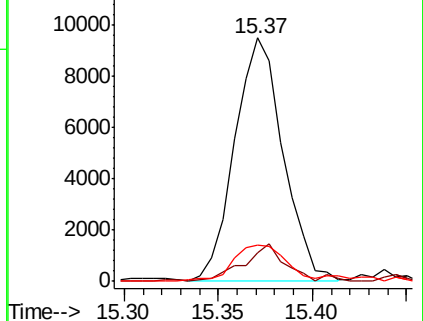
127 16.2 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.295 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.01 min

Lab File: VW009361.D

Acq: 22 Mar 2019 23:21

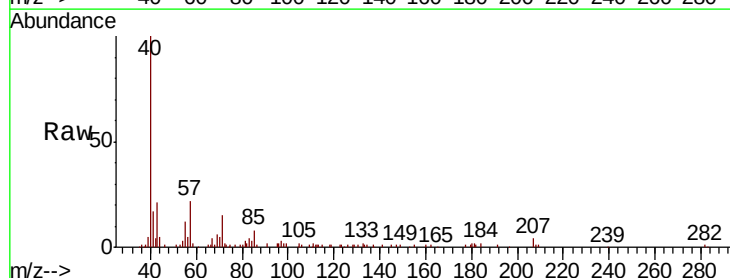
Tgt Ion:180 Resp: 522

Ion Ratio Lower Upper

180 100

182 44.4 77.2 115.8#

145 20.1 25.8 38.6#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

