

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040820\
 Data File : VW015168.D
 Acq On : 08 Apr 2020 14:00
 Operator : SY/VA
 Sample : L2176-07
 Misc : 5.64G/10ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG2J3

Quant Time: Apr 09 01:21:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM032520S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 09 01:17:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	679410	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	571136	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.85	152	137391	25.00	ug/L	0.30

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	222765	18.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.96%
7) Chloroethane-d5	2.90	69	211732	21.88	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.52%
10) 1,1-Dichloroethene-d2	4.02	63	322818	13.69	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	54.76%
20) 2-Butanone-d5	7.08	46	101007	37.82	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	75.64%
24) Chloroform-d	7.65	84	402042	19.80	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	79.20%
26) 1,2-Dichloroethane-d4	8.31	65	231108	19.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	78.64%
29) Benzene-d6	8.27	84	814366	22.28	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.12%
33) 1,2-Dichloropropane-d6	9.27	67	271813	22.38	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.52%
37) Toluene-d8	10.32	98	788363	25.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.20%
38) trans-1,3-Dichloropropene-	10.58	79	93453	20.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	80.44%
39) 2-Hexanone-d5	10.93	63	82038	45.74	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.48%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	169788	20.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.76%
61) 1,2-Dichlorobenzene-d4	13.85	152	173659	36.32	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	145.28%#

Target Compounds

					Ovalue
13) Acetone	4.13	43	39916	16.746	ug/L 97
21) 2-Butanone	7.18	43	15512	4.595	ug/L 87
30) Cyclohexane	7.95	56	105212	5.646	ug/L 91
34) Benzene	8.32	78	334847	7.925	ug/L 100
36) Methylcyclohexane	9.34	83	842298	47.667	ug/L 93
41) Bromodichloromethane	9.62	83	6424	0.485	ug/L # 49
43) 4-Methyl-2-pentanone	10.21	43	18946	2.874	ug/L 98
44) Toluene	10.38	91	20722	0.496	ug/L 93
46) 1,1,2-Trichloroethane	10.76	97	262120	38.268	ug/L # 19
49) 2-Hexanone	10.93	43	426909	97.098	ug/L # 29
53) Ethylbenzene	11.73	91	361047	8.001	ug/L 97
55) o-xylene	12.16	106	224574	15.141	ug/L 97
56) Styrene	12.17	104	12956	0.513	ug/L # 1
57) Isopropylbenzene	12.46	105	2981910	72.972	ug/L 98
58) 1,1,2,2-Tetrachloroethane	12.69	83	96107	11.211	ug/L # 87
63) 1,3-Dichlorobenzene	13.50	146	3220	0.358	ug/L # 1
64) 1,4-Dichlorobenzene	13.58	146	31266	3.394	ug/L # 1

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Quant Title : VOC Analysis
QLast Update : Thu Apr 09 01:17:46 2020
Response via : Initial Calibration

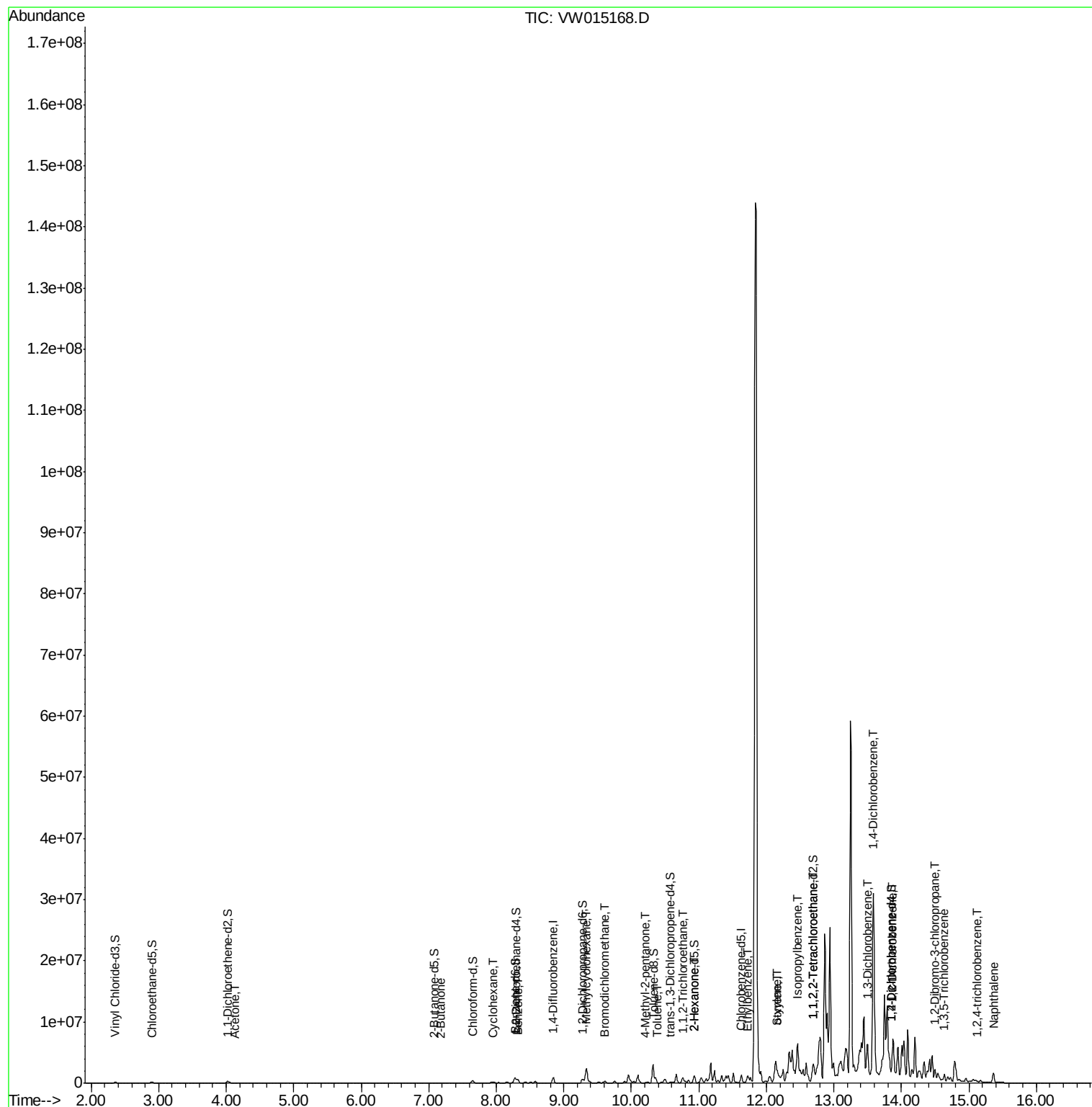
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	13.87	146	8673	1.058	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.49	75	10695	13.702	ug/L #	21
67) 1,3,5-Trichlorobenzene	14.63	180	10821	1.867	ug/L #	65
68) 1,2,4-trichlorobenzene	15.13	180	11964	2.738	ug/L #	1
69) Naphthalene	15.36	128	1212263	142.699	ug/L	99

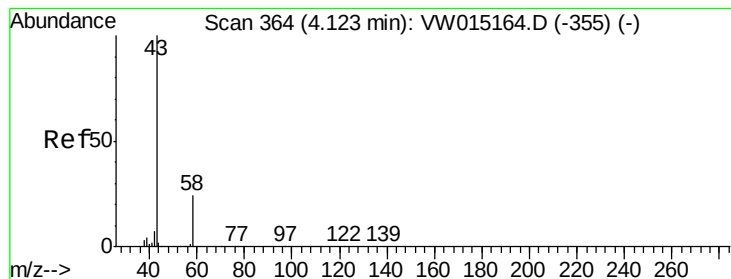
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040820\
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#13

Acetone

Concen: 16.746 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW015168.D

Acq: 08 Apr 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

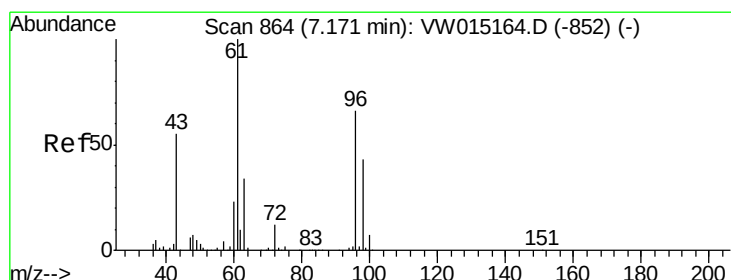
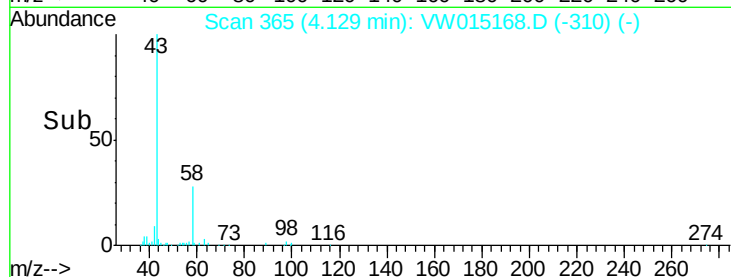
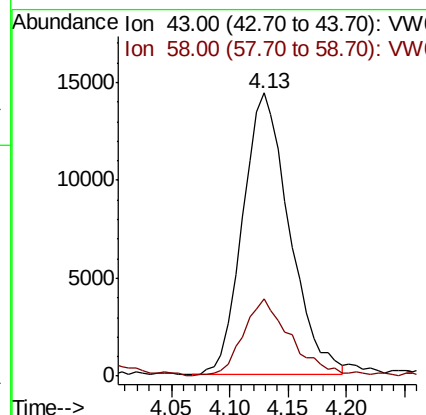
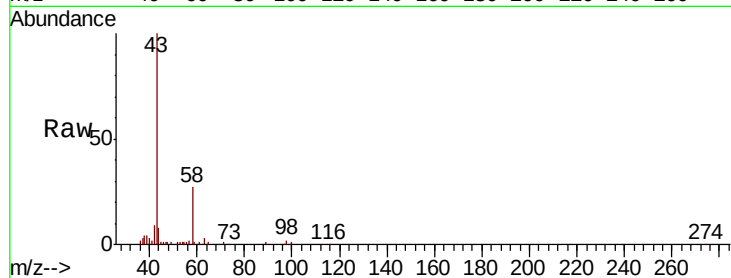
BG2J3

Tot Ion: 43 Resp: 39916

Ion Ratio Lower Upper

43 100

58 25.6 0.0 54.4



#21

2-Butanone

Concen: 4.595 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015168.D

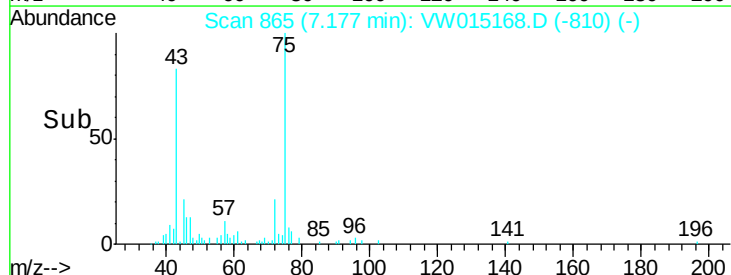
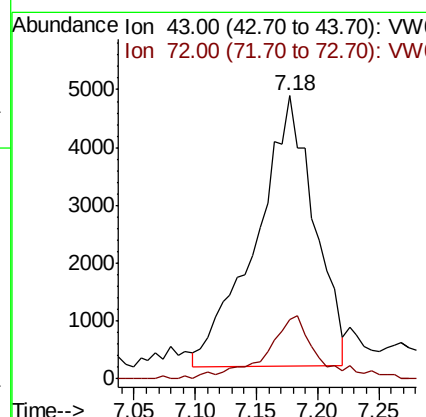
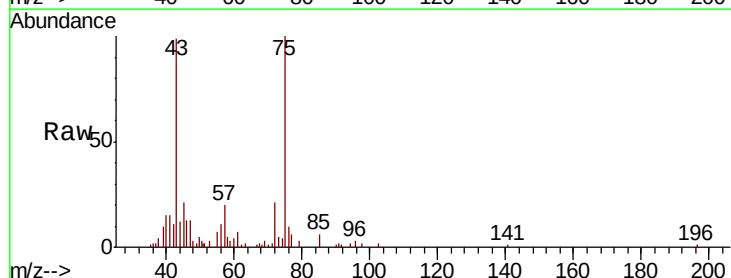
Acq: 08 Apr 2020 14:00

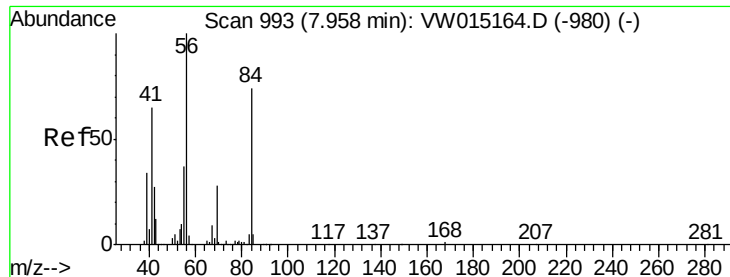
Tgt Ion: 43 Resp: 15512

Ion Ratio Lower Upper

43 100

72 16.9 11.7 35.0

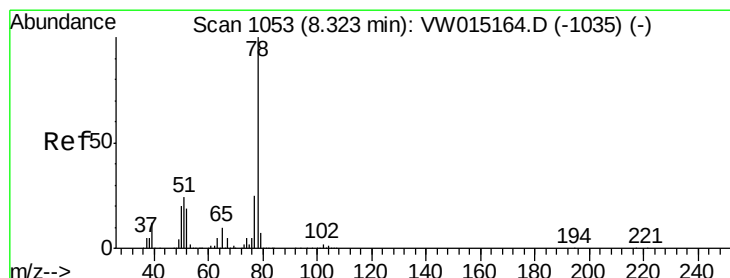
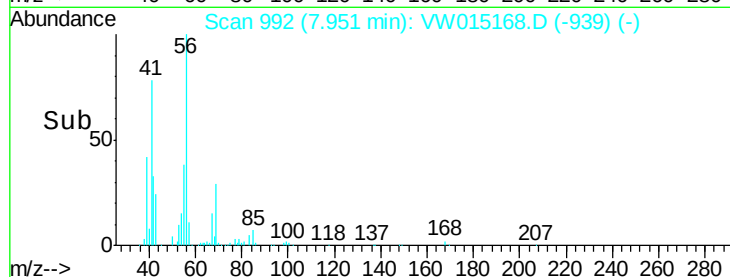
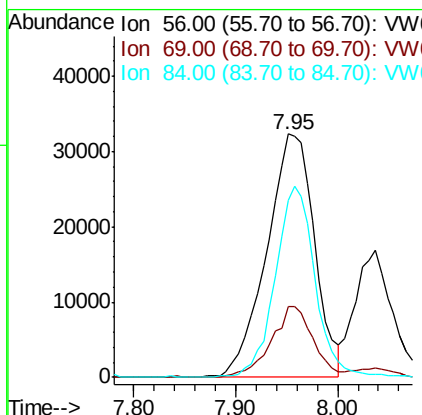
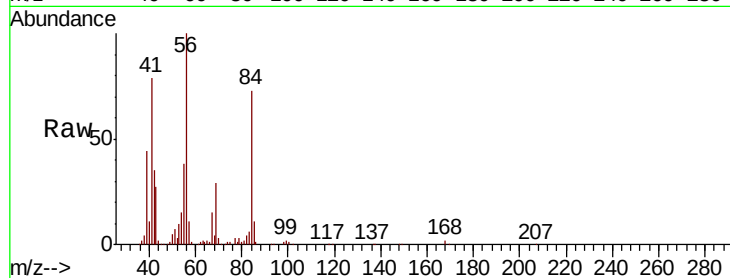




#30
Cyclohexane
Concen: 5.646 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

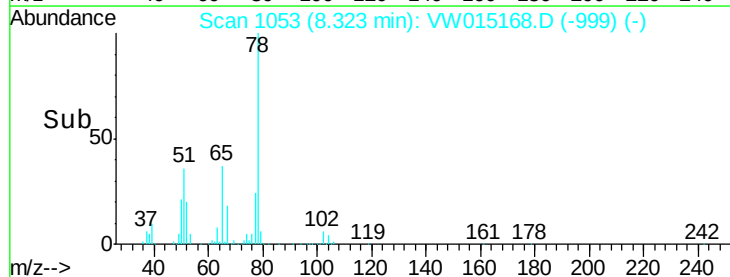
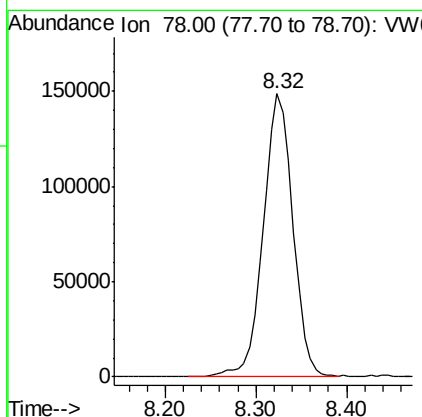
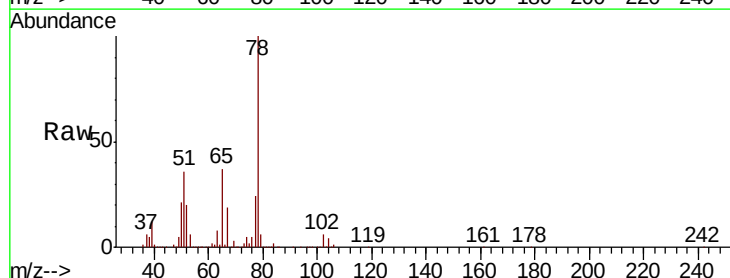
Instrument :
MSVOA_W
ClientSampleId :
BG2J3

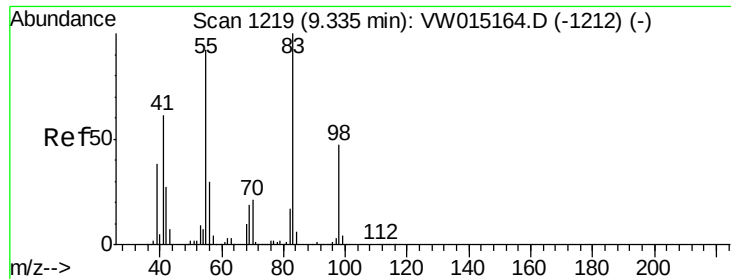
Tot Ion: 56 Resp: 105212
Ion Ratio Lower Upper
56 100
69 24.6 22.0 33.0
84 65.5 58.9 88.3



#34
Benzene
Concen: 7.925 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

Tgt Ion: 78 Resp: 334847

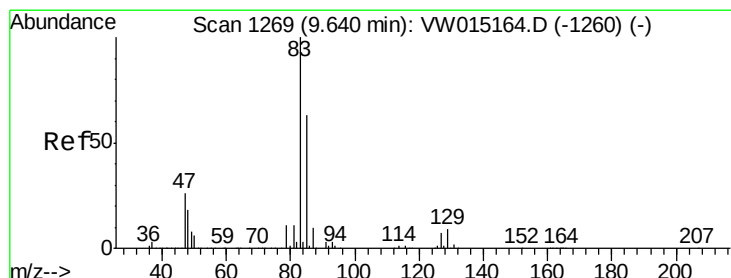
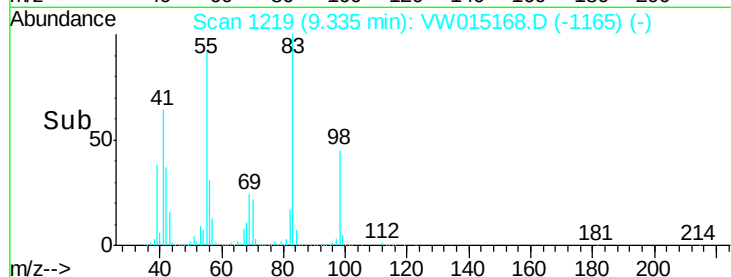
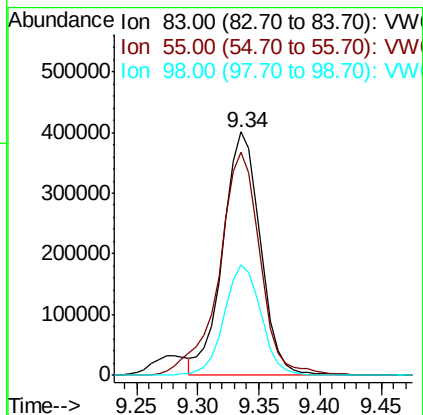
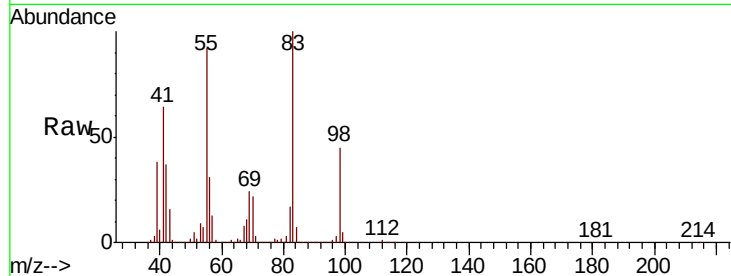




#36
Methylcyclohexane
Concen: 47.667 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

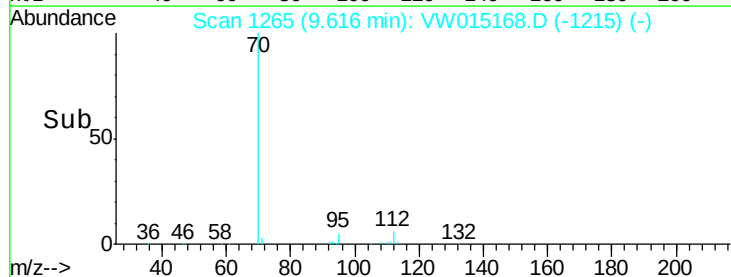
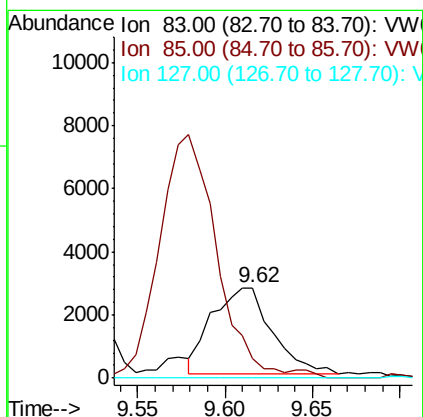
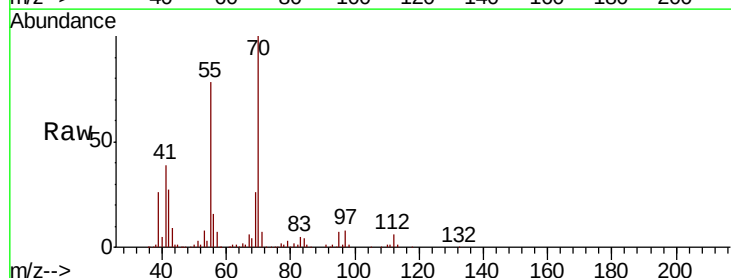
Instrument :
MSVOA_W
ClientSampled :
BG2J3

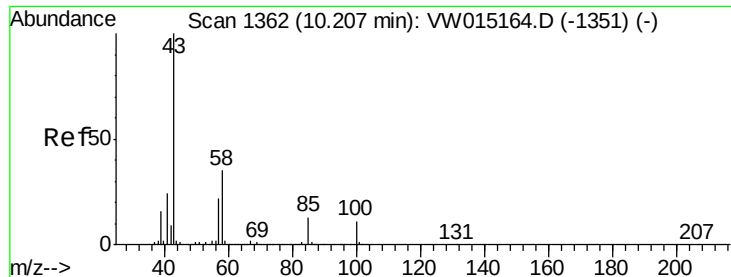
Tot Ion: 83 Resp: 842298
Ion Ratio Lower Upper
83 100
55 101.8 73.4 110.2
98 45.2 36.6 55.0



#41
Bromodichloromethane
Concen: 0.485 ug/L
RT: 9.62 min Scan# 1265
Delta R.T. -0.02 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

Tgt Ion: 83 Resp: 6424
Ion Ratio Lower Upper
83 100
85 21.1 44.1 81.9#
127 0.0 5.5 8.3#

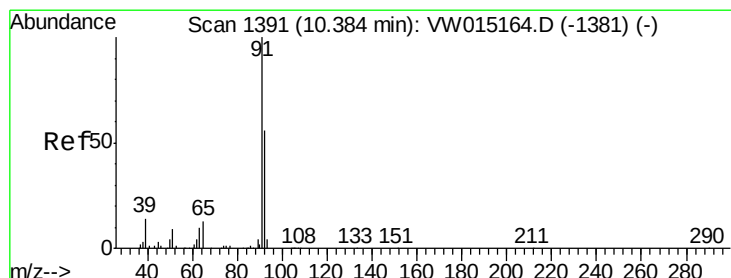
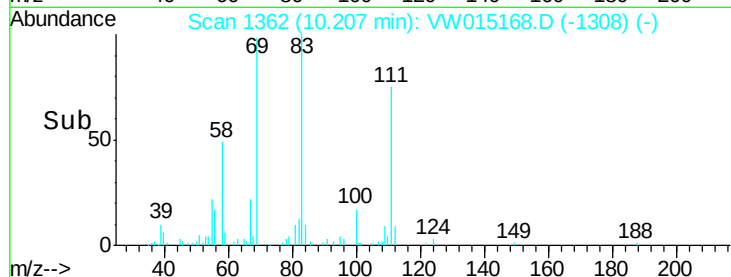
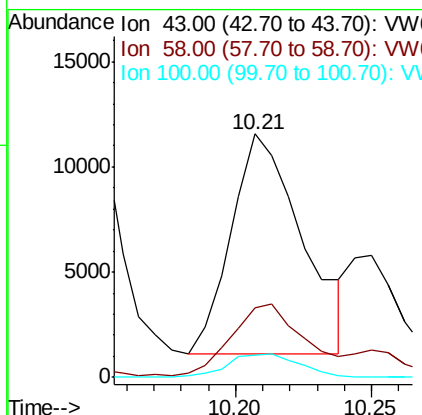
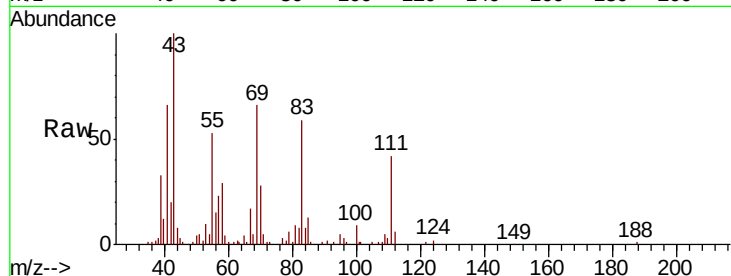




#43
4-Methyl-2-pentanone
Concen: 2.874 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

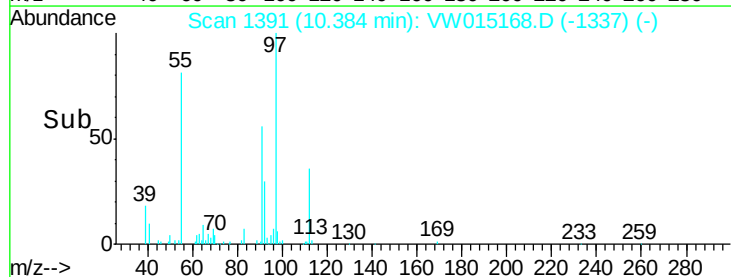
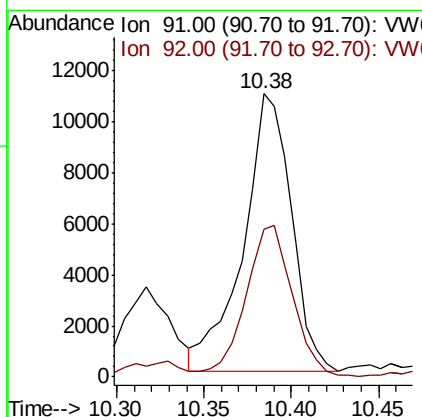
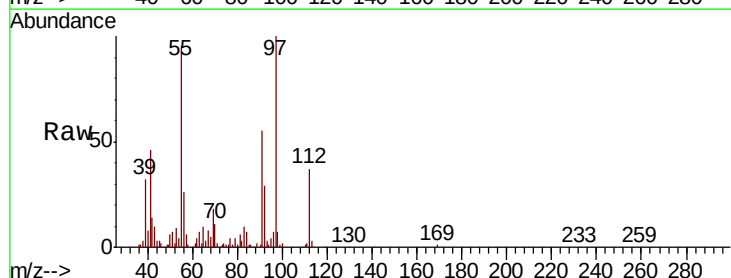
Instrument :
MSVOA_W
ClientSampleId :
BG2J3

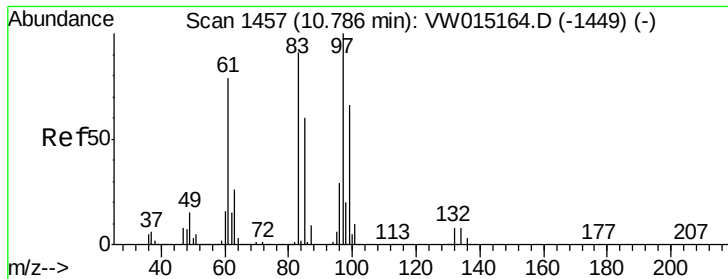
Tot Ion: 43 Resp: 18946
Ion Ratio Lower Upper
43 100
58 33.2 27.9 41.9
100 10.8 8.9 13.3



#44
Toluene
Concen: 0.496 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

Tgt Ion: 91 Resp: 20722
Ion Ratio Lower Upper
91 100
92 52.1 40.2 74.6





#46

1,1,2-Trichloroethane

Concen: 38.268 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW015168.D

Acq: 08 Apr 2020 14:00

Instrument :

MSVOA_W

ClientSampled :

BG2J3

Tot Ion: 97 Resp: 262120

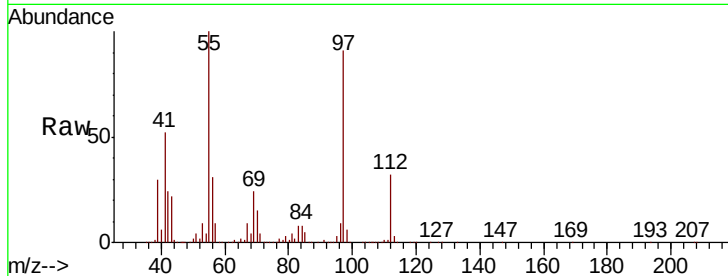
Ion Ratio Lower Upper

97 100

83 8.6 64.8 120.4#

85 5.9 40.9 75.9#

99 0.2 43.8 81.4#

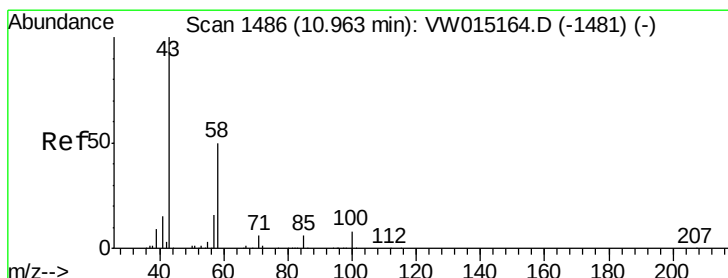
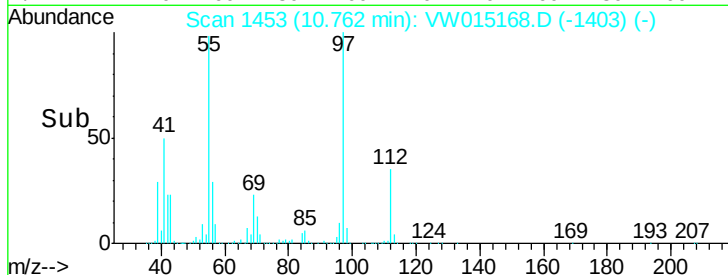
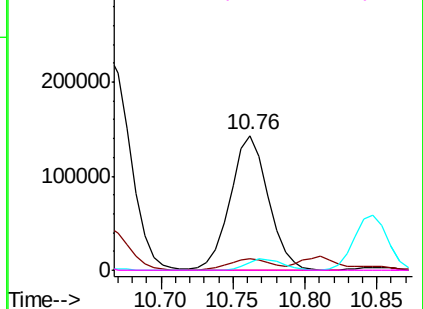


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#49

2-Hexanone

Concen: 97.098 ug/L

RT: 10.93 min Scan# 1481

Delta R.T. -0.03 min

Lab File: VW015168.D

Acq: 08 Apr 2020 14:00

Tgt Ion: 43 Resp: 426909

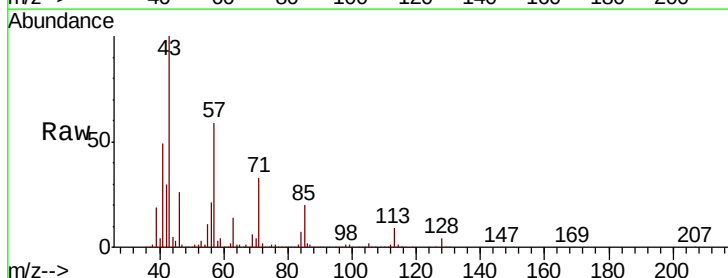
Ion Ratio Lower Upper

43 100

58 3.5 38.5 57.7#

57 63.7 12.9 19.3#

100 0.2 6.9 10.3#

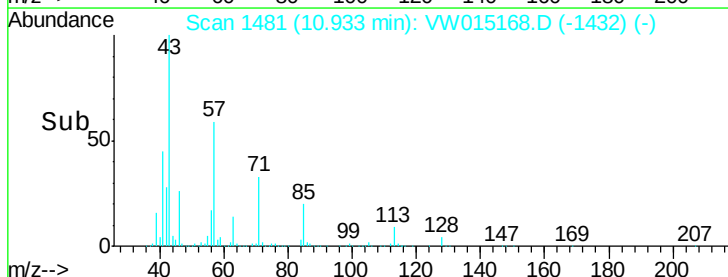
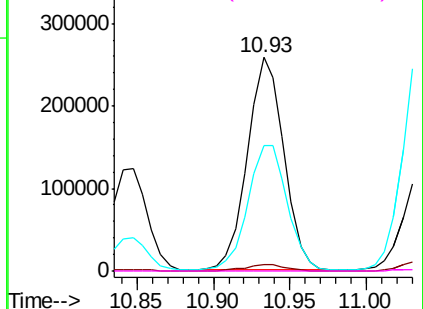


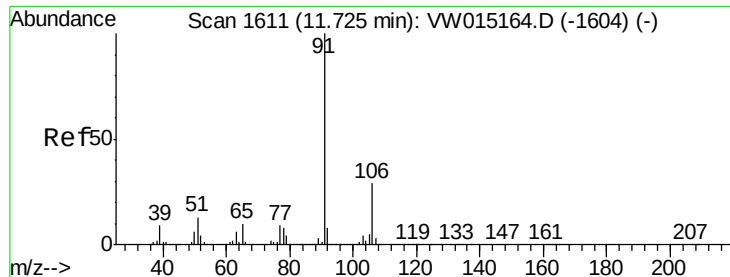
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#53

Ethylbenzene

Concen: 8.001 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW015168.D

Acq: 08 Apr 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

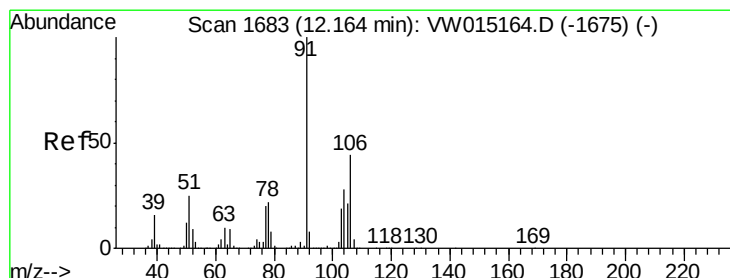
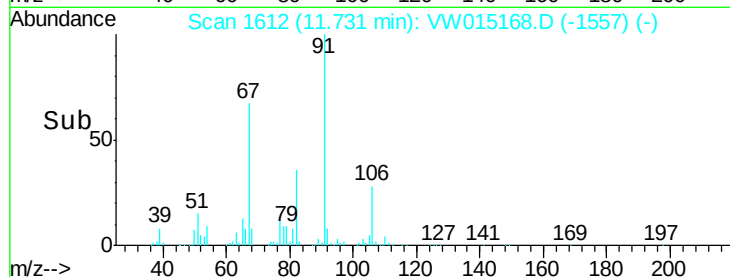
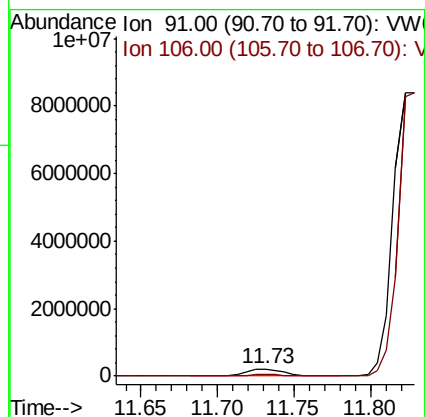
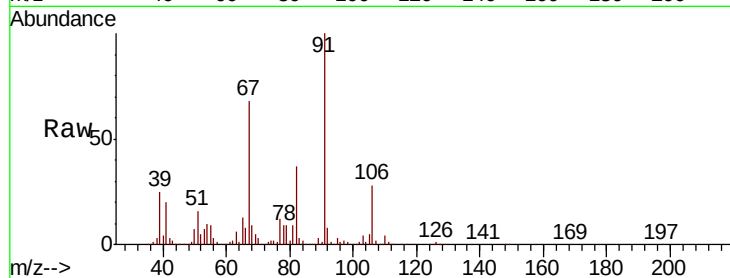
BG2J3

Tot Ion: 91 Resp: 361047

Ion Ratio Lower Upper

91 100

106 27.5 20.6 38.2



#55

o-xylene

Concen: 15.141 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW015168.D

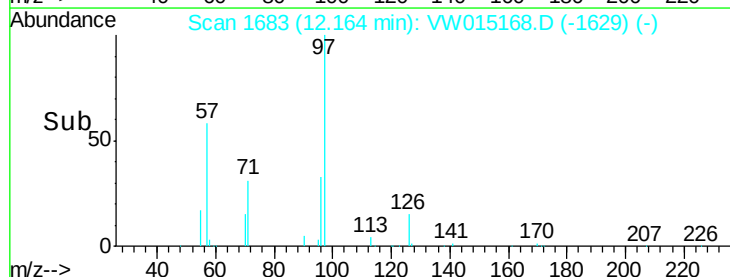
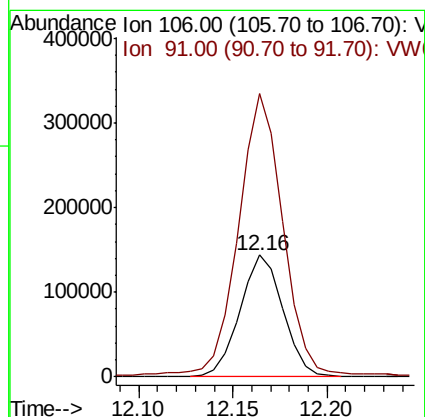
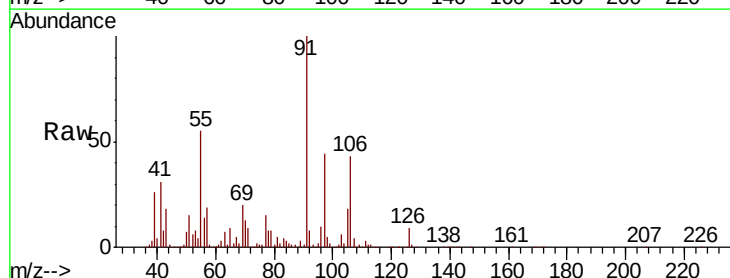
Acq: 08 Apr 2020 14:00

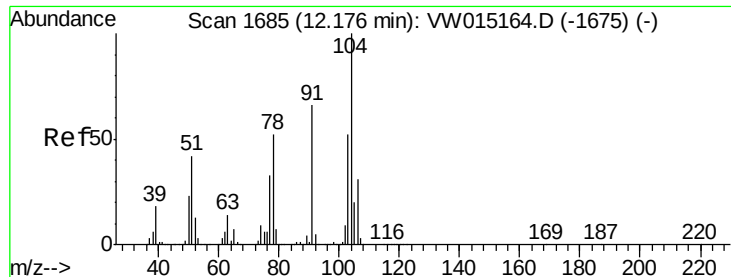
Tgt Ion: 106 Resp: 224574

Ion Ratio Lower Upper

106 100

91 231.9 158.6 294.6

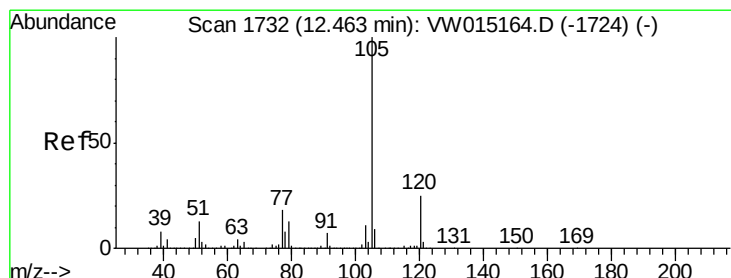
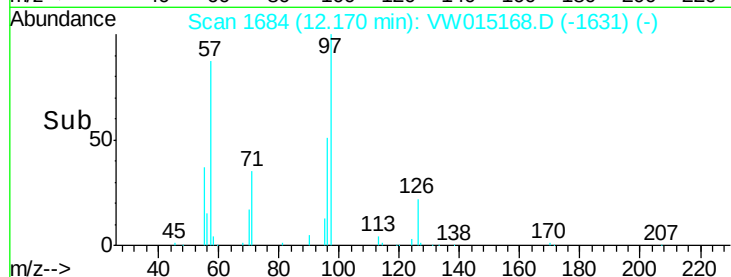
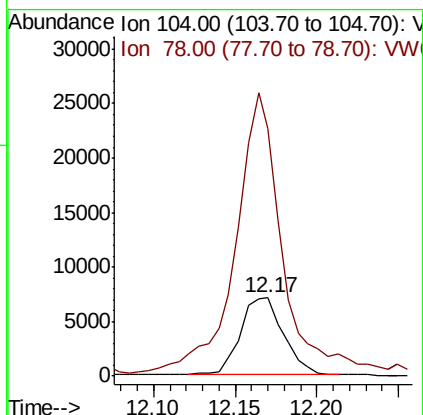
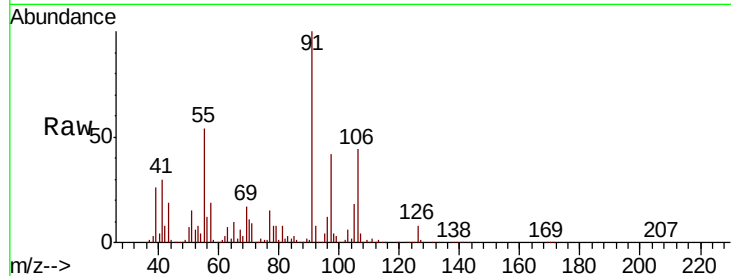




#56
Stvrene
Concen: 0.513 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

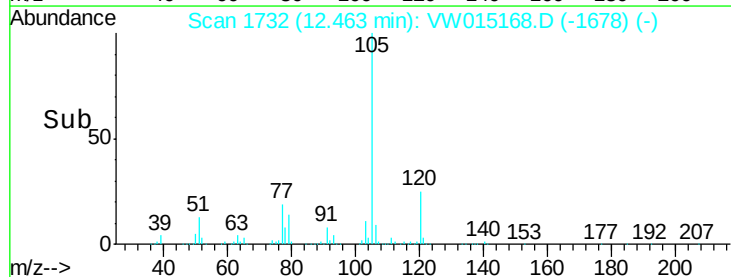
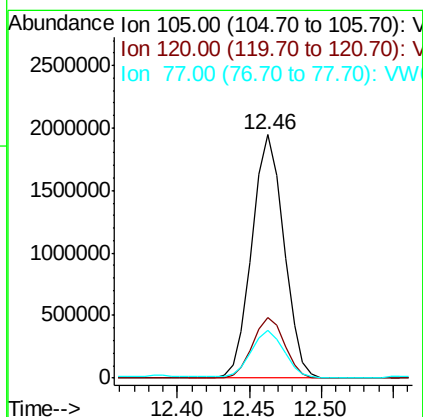
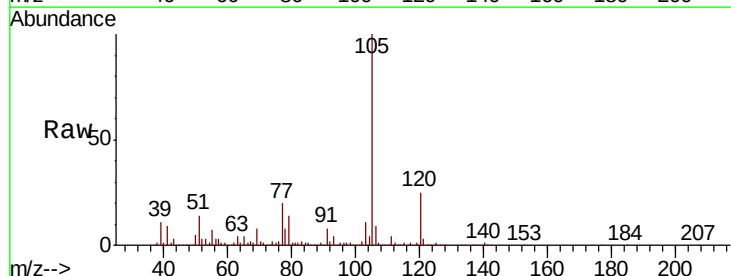
Instrument :
MSVOA_W
ClientSampleId :
BG2J3

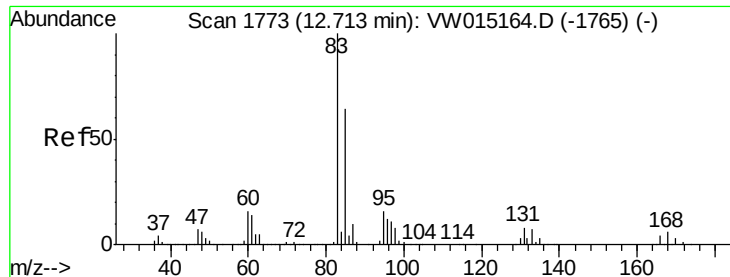
Tot Ion:104 Resp: 12956
Ion Ratio Lower Upper
104 100
78 316.7 33.9 63.0#



#57
Isopropylbenzene
Concen: 72.972 ug/L
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW015168.D
Acq: 08 Apr 2020 14:00

Tgt Ion:105 Resp: 2981910
Ion Ratio Lower Upper
105 100
120 25.0 20.0 30.0
77 19.9 14.5 21.7

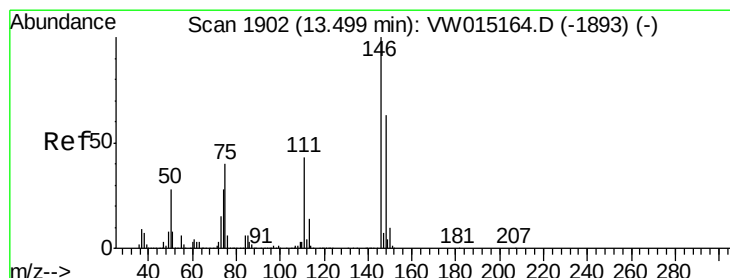
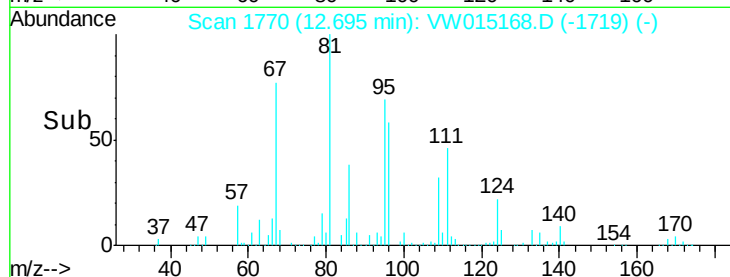
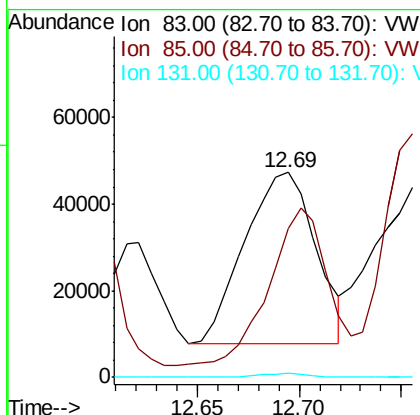
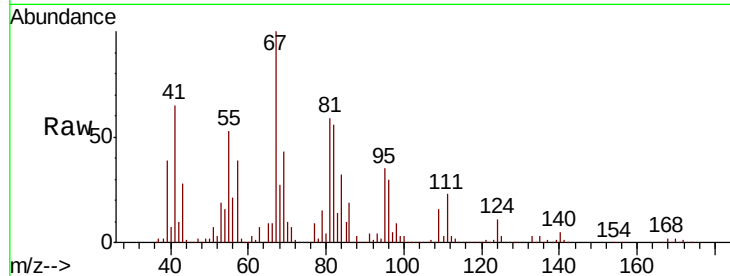




#58
 1,1,2,2-Tetrachloroethane
 Concen: 11.211 ug/L
 RT: 12.69 min Scan# 1770
 Delta R.T. -0.02 min
 Lab File: VW015168.D
 Acq: 08 Apr 2020 14:00

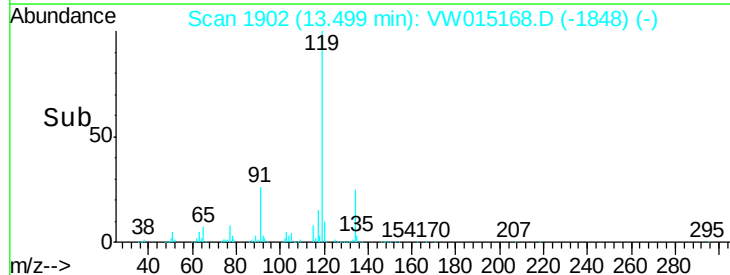
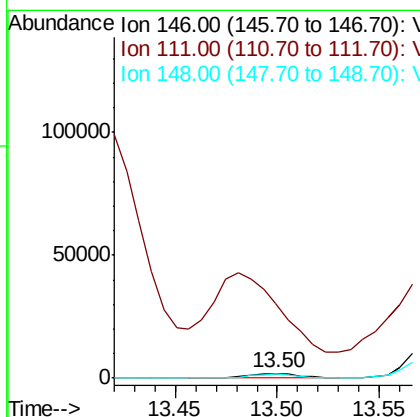
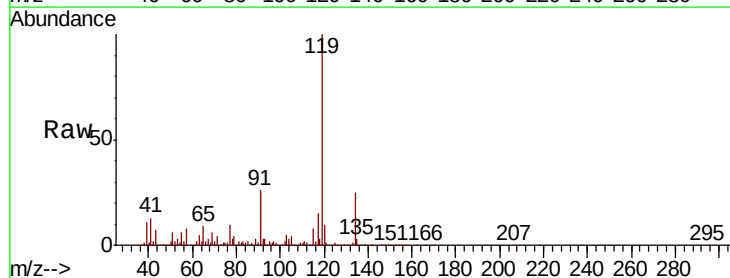
Instrument :
 MSVOA_W
 ClientSampleId :
 BG2J3

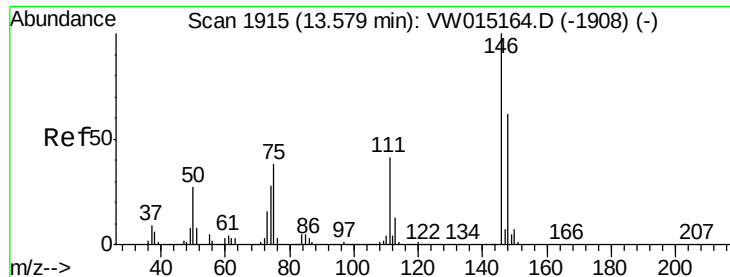
Tot Ion: 83 Resp: 96107
 Ion Ratio Lower Upper
 83 100
 85 72.5 44.1 81.9
 131 1.9 5.9 8.9#



#63
 1,3-Dichlorobenzene
 Concen: 0.358 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW015168.D
 Acq: 08 Apr 2020 14:00

Tgt Ion: 146 Resp: 3220
 Ion Ratio Lower Upper
 146 100
 111 1559.2 31.9 59.2#
 148 82.7 45.2 84.0

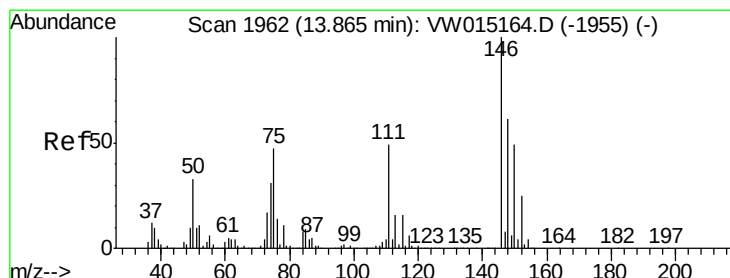
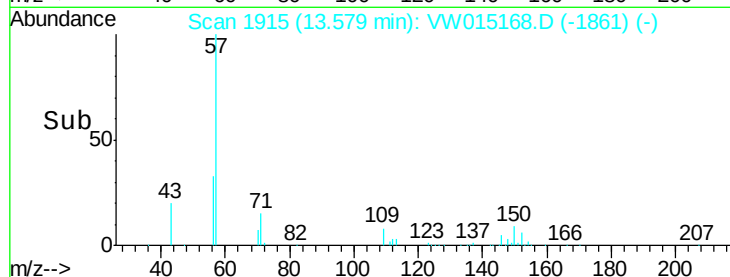
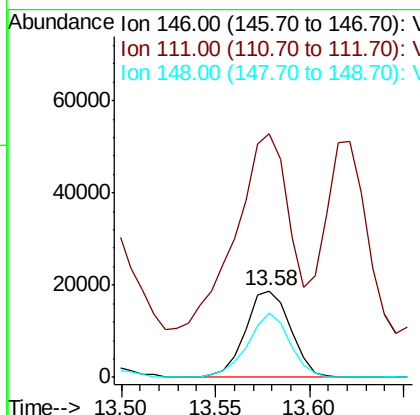
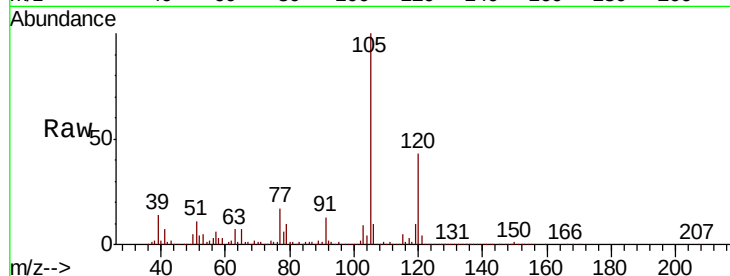




#64
 1,4-Dichlorobenzene
 Concen: 3.394 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW015168.D
 Acq: 08 Apr 2020 14:00

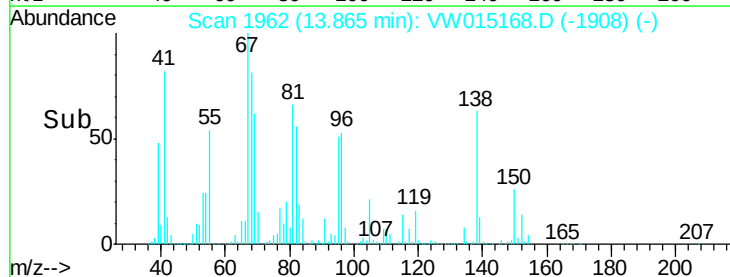
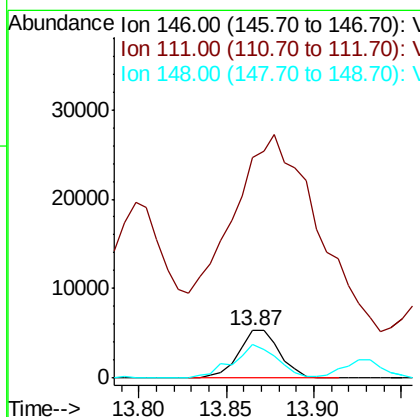
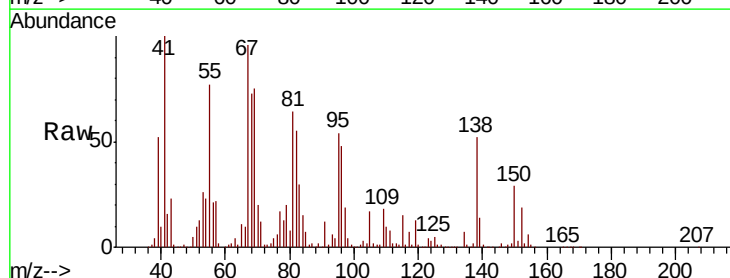
Instrument :
 MSVOA_W
 ClientSampled :
 BG2J3

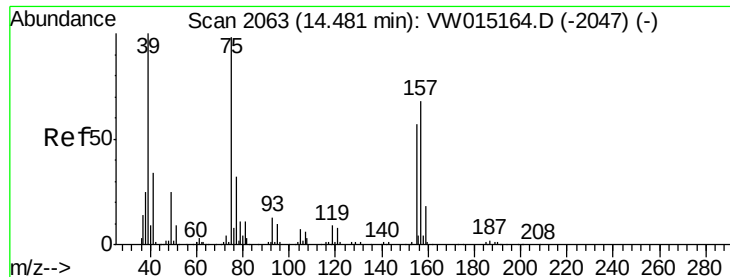
Tot Ion	Ratio	Lower	Upper
146	100		
111	281.7	28.8	53.4#
148	73.9	44.0	81.6



#65
 1,2-Dichlorobenzene
 Concen: 1.058 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.00 min
 Lab File: VW015168.D
 Acq: 08 Apr 2020 14:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	468.2	35.8	53.8#
148	70.1	52.3	78.5

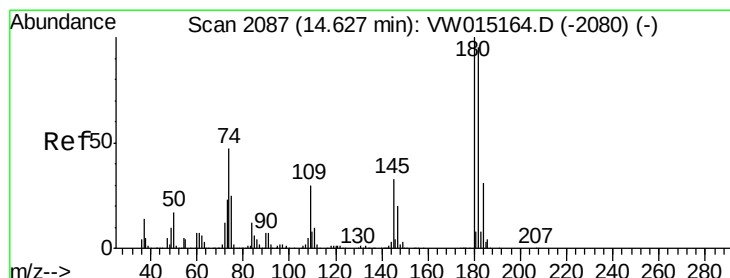
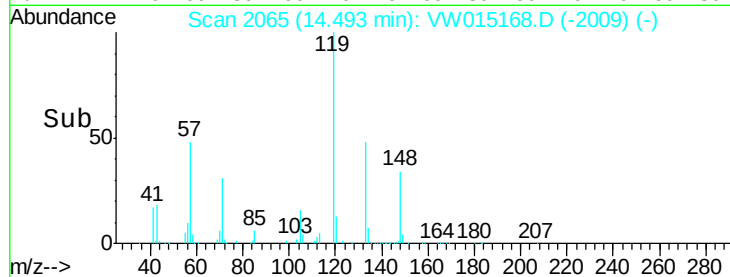
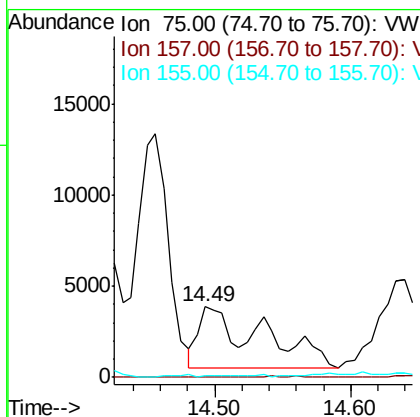
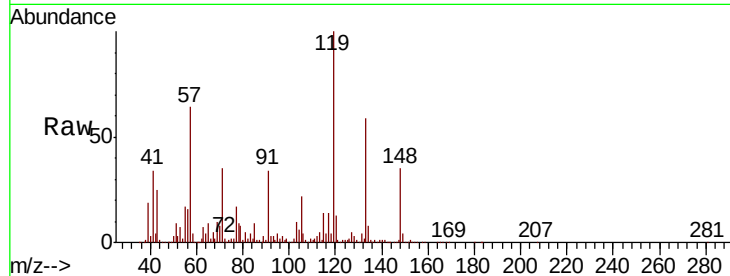




#66
 1,2-Dibromo-3-chloropropane
 Concen: 13.702 ug/L
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.01 min
 Lab File: VW015168.D
 Acq: 08 Apr 2020 14:00

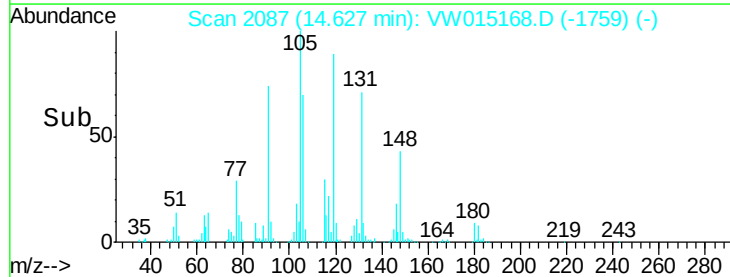
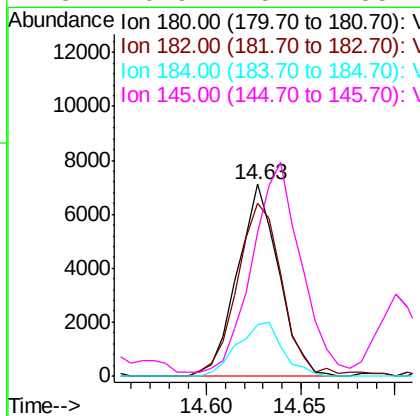
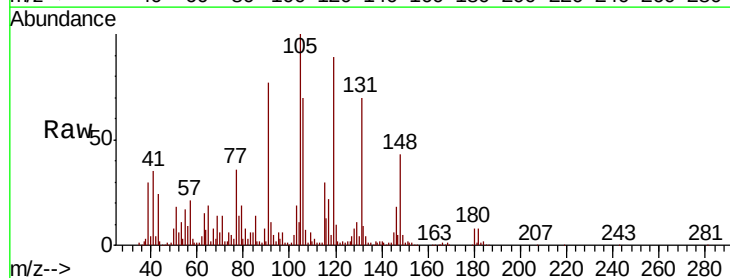
Instrument :
 MSVOA_W
 ClientSampled :
 BG2J3

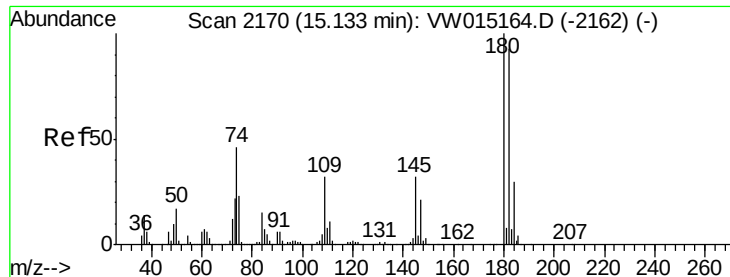
Tot Ion: 75 Resp: 10695
 Ion Ratio Lower Upper
 75 100
 157 1.3 57.3 85.9#
 155 2.3 43.2 64.8#



#67
 1,3,5-Trichlorobenzene
 Concen: 1.867 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW015168.D
 Acq: 08 Apr 2020 14:00

Tgt Ion: 180 Resp: 10821
 Ion Ratio Lower Upper
 180 100
 182 96.6 77.0 115.6
 184 30.6 24.0 36.0
 145 126.9 25.4 38.2#





#68

1,2,4-trichlorobenzene

Concen: 2.738 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW015168.D

Acq: 08 Apr 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

BG2J3

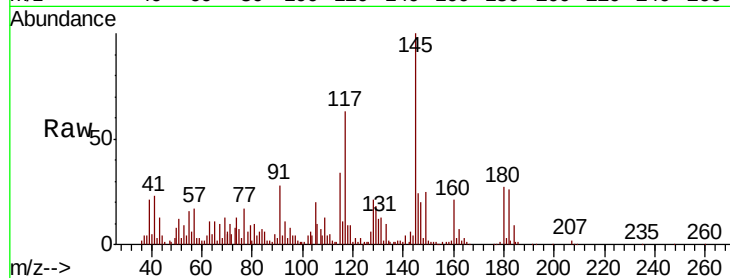
Tot Ion:180 Resp: 11964

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.6

145 662.4 25.8 38.6#

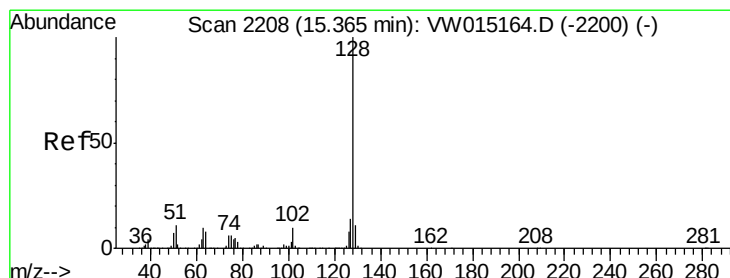
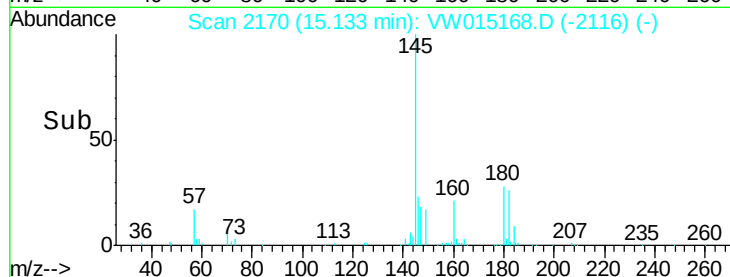
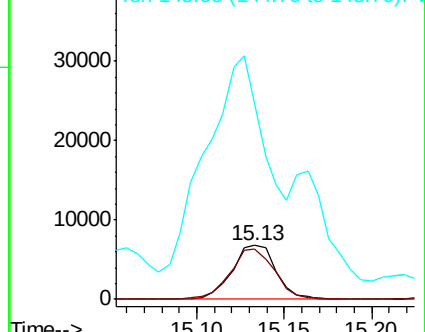


Abundance

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



#69

Naphthalene

Concen: 142.699 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015168.D

Acq: 08 Apr 2020 14:00

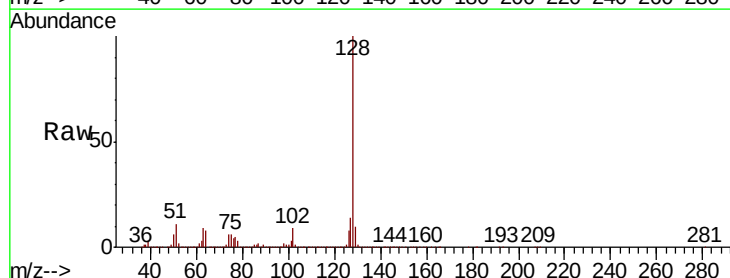
Tgt Ion:128 Resp: 1212263

Ion Ratio Lower Upper

128 100

129 10.6 8.9 13.3

127 13.5 11.0 16.4



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

