

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092420\
 Data File : VW016633.D
 Acq On : 23 Sep 2020 16:49
 Operator : SY/VA
 Sample : L4109-13
 Misc : 6.09G/10ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X3RE

Quant Time: Sep 24 04:43:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 24 04:34:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	54071	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	37605	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	9576	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	11394	21.77	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.08%
7) Chloroethane-d5	2.89	69	10442	24.44	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.76%
10) 1,1-Dichloroethene-d2	4.03	63	17837	15.24	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	60.96%
20) 2-Butanone-d5	7.09	46	5948	41.68	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.36%
24) Chloroform-d	7.65	84	25833	22.84	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.36%
26) 1,2-Dichloroethane-d4	8.31	65	15124	26.05	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.20%
29) Benzene-d6	8.28	84	50043	29.67	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	118.68%
33) 1,2-Dichloropropane-d6	9.28	67	14600	31.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	127.80%#
37) Toluene-d8	10.33	98	40209	24.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.92%
38) trans-1,3-Dichloropropene-	10.58	79	5793	25.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.56%
39) 2-Hexanone-d5	10.93	63	4219	50.75	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.50%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	10744	27.63	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	110.52%
61) 1,2-Dichlorobenzene-d4	13.85	152	7806	25.51	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.04%

Target Compounds

					Ovalue
13) Acetone	4.13	43	5978	53.482	ug/L 68
16) Methylene chloride	4.93	84	1851	2.220	ug/L 91
19) 1,1-Dichloroethane	5.96	63	312	0.278	ug/L # 3
21) 2-Butanone	7.15	43	3487	18.337	ug/L # 58
30) Cyclohexane	7.95	56	2290	2.787	ug/L # 54
35) Trichloroethene	8.85	95	1710	2.932	ug/L # 3
36) Methylcyclohexane	9.34	83	1061	1.073	ug/L # 47
40) 1,2-Dichloropropane	9.28	63	1947	4.153	ug/L 97
42) cis-1,3-Dichloropropene	10.04	75	508	0.634	ug/L # 67
43) 4-Methyl-2-pentanone	10.21	43	243	0.816	ug/L # 42
44) Toluene	10.39	91	19704	8.694	ug/L 99
45) trans-1,3-Dichloropropene	10.58	75	358	0.514	ug/L # 57
46) 1,1,2-Trichloroethane	10.76	97	2953	7.477	ug/L # 30
49) 2-Hexanone	10.93	43	3527	18.659	ug/L # 33
52) Chlorobenzene	11.66	112	405	0.266	ug/L # 36
53) Ethylbenzene	11.73	91	19887	7.729	ug/L 94
54) m,p-Xylene	11.84	106	41004	40.696	ug/L 89

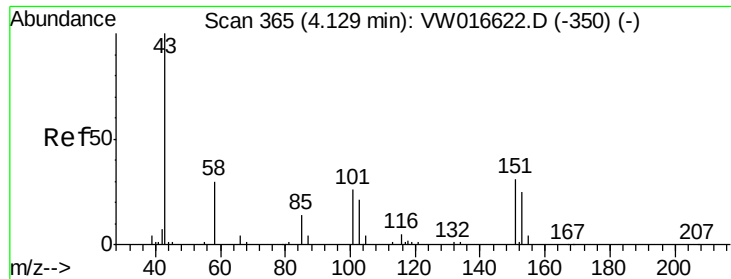
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092420\
 Data File : VW016633.D
 Acq On : 23 Sep 2020 16:49
 Operator : SY/VA
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Quant Time: Sep 24 04:43:05 2020
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 Quant Title : VOC Analysis
 QLast Update : Thu Sep 24 04:34:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.16	106	24396	25.273	ug/L	98
56) Styrene	12.17	104	1411	0.880	ug/L #	1
57) Isopropylbenzene	12.46	105	11545	4.377	ug/L #	97
58) 1,1,2,2-Tetrachloroethane	12.71	83	856	1.938	ug/L #	34
59) 1,2,3-Trichloropropane	12.81	75	409	1.243	ug/L #	1
63) 1,3-Dichlorobenzene	13.50	146	947	1.520	ug/L #	1
64) 1,4-Dichlorobenzene	13.58	146	4886	8.010	ug/L #	62
65) 1,2-Dichlorobenzene	13.87	146	5827	10.470	ug/L #	74
66) 1,2-Dibromo-3-chloropropan	14.46	75	8914	223.445	ug/L #	1
68) 1,2,4-trichlorobenzene	15.13	180	315	0.855	ug/L #	1
69) Naphthalene	15.37	128	134161	205.379	ug/L	97
70) 1,2,3-Trichlorobenzene	15.55	180	126	0.398	ug/L #	1

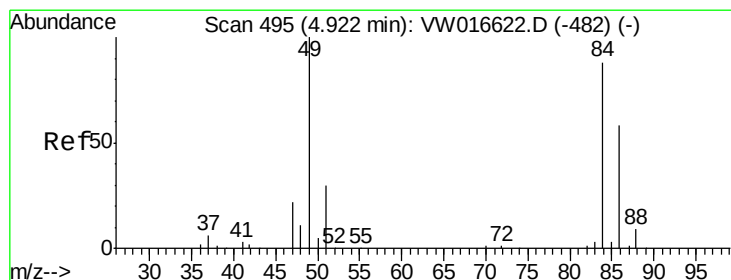
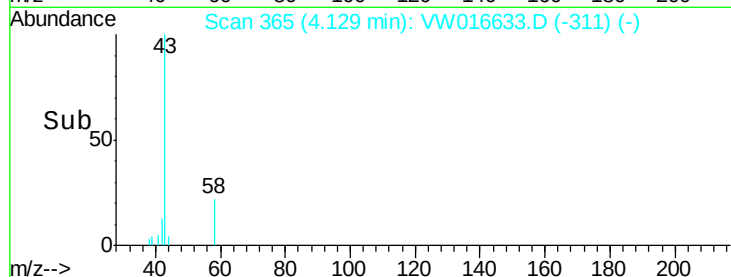
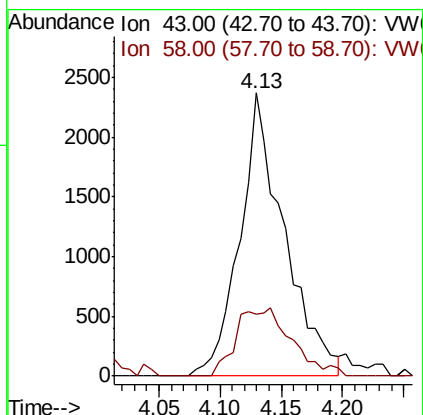
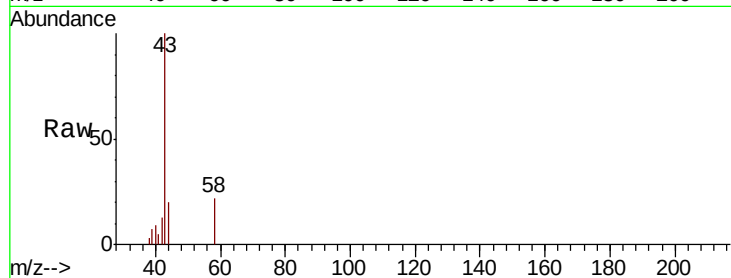
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#13
Acetone
Concen: 53.482 ug/L
RT: 4.13 min Scan# 365
Delta R.T. 0.00 min
Lab File: VW016633.D
Acq: 23 Sep 2020 16:49

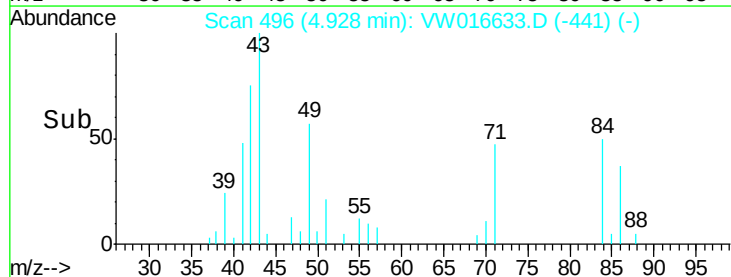
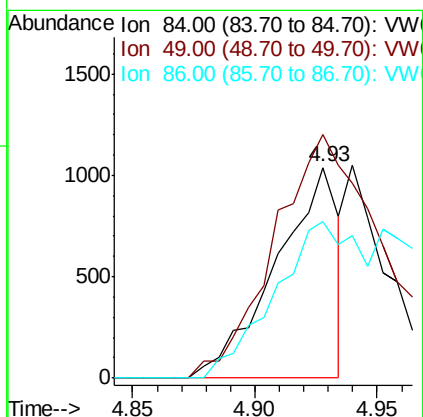
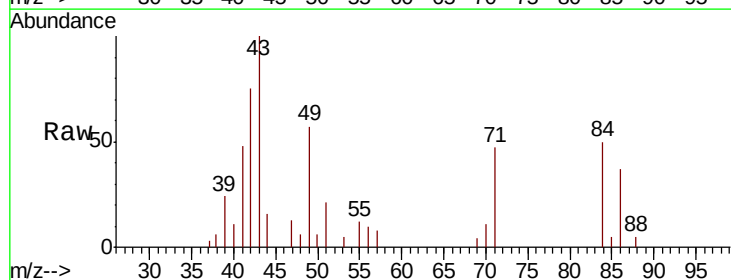
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MSVOA_W
ClientSampleId :
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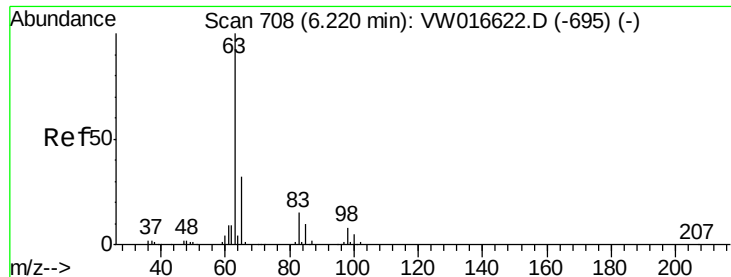
Tot Ion: 43 Resp: 5978
Ion Ratio Lower Upper
43 100
58 12.6 0.0 60.2



#16
Methylene chloride
Concen: 2.220 ug/L
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW016633.D
Acq: 23 Sep 2020 16:49

Tgt Ion: 84 Resp: 1851
Ion Ratio Lower Upper
84 100
49 115.7 76.0 141.2
86 74.7 45.6 84.6

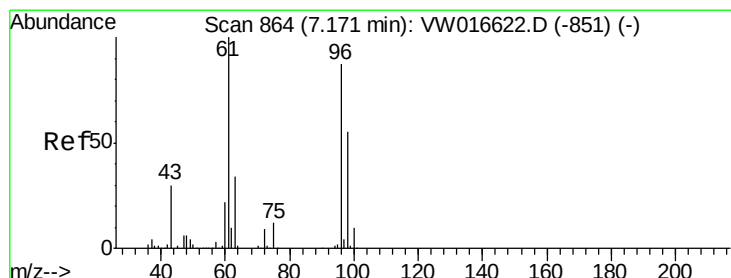
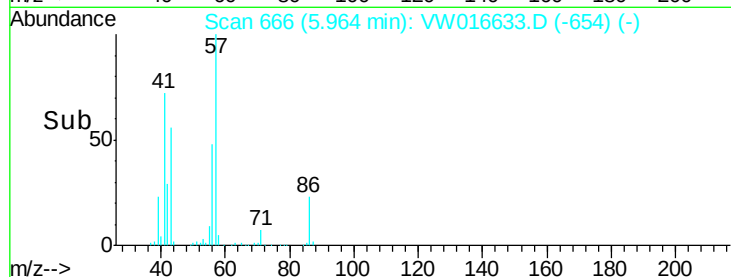
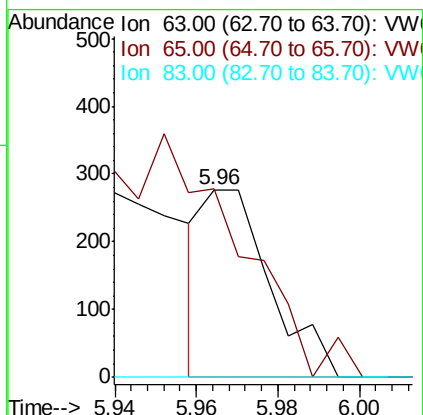
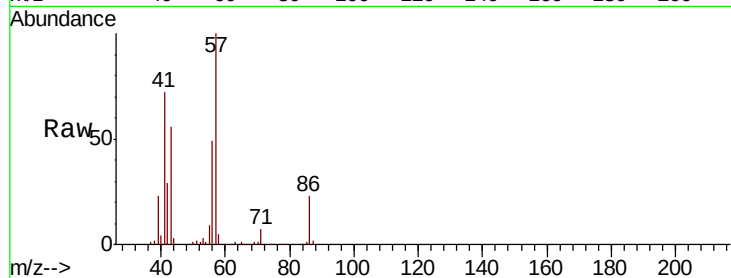




#19
 1,1-Dichloroethane
 Concen: 0.278 ug/L
 RT: 5.96 min Scan# 666
 Delta R.T. -0.26 min
 Lab File: VW016633.D
 Acq: 23 Sep 2020 16:49

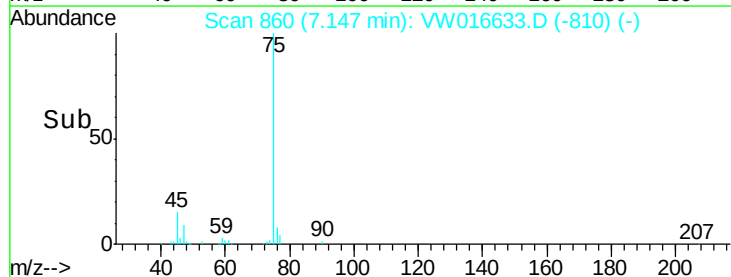
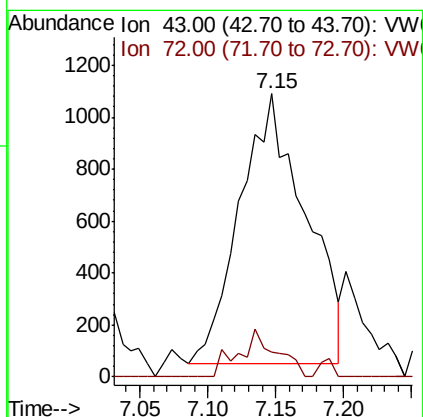
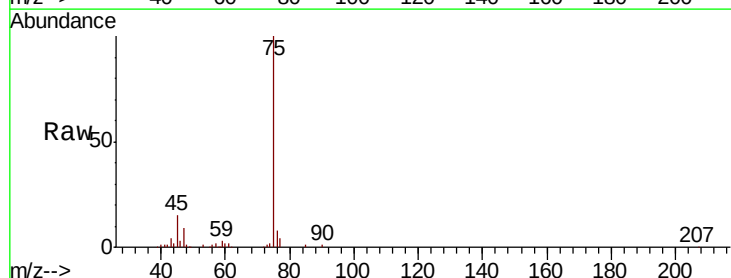
Instrument :
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 ClientSampleId :
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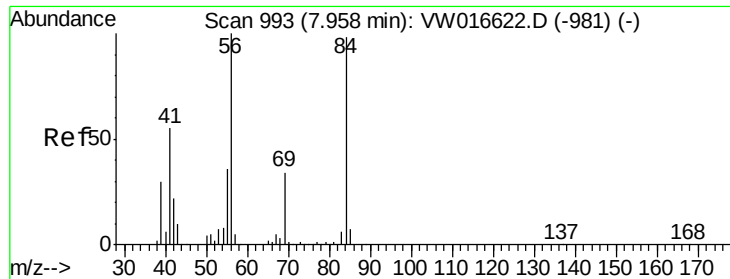
Tot Ion: 63 Resp: 312
 Ion Ratio Lower Upper
 63 100
 65 100.4 21.6 40.0#
 83 0.0 10.4 19.2#



#21
 2-Butanone
 Concen: 18.337 ug/L
 RT: 7.15 min Scan# 860
 Delta R.T. -0.02 min
 Lab File: VW016633.D
 Acq: 23 Sep 2020 16:49

Tgt Ion: 43 Resp: 3487
 Ion Ratio Lower Upper
 43 100
 72 6.6 14.6 43.8#

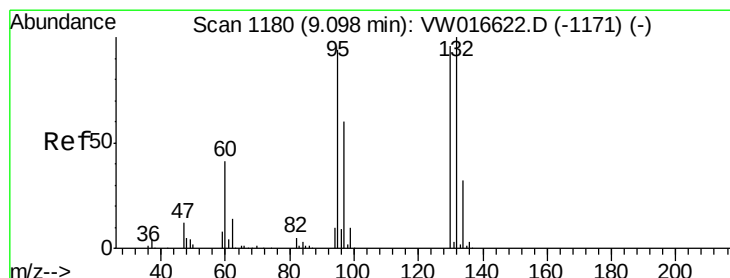
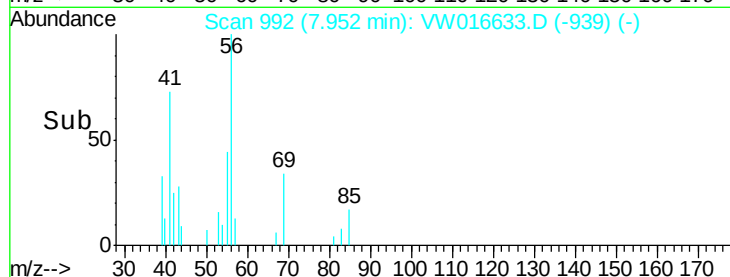
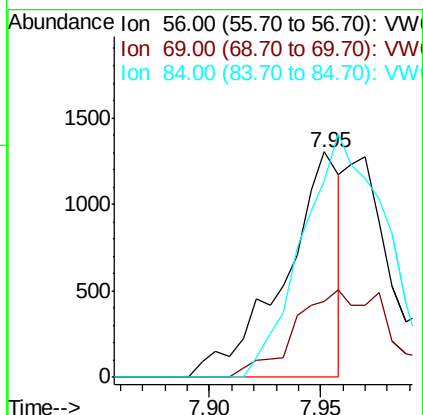
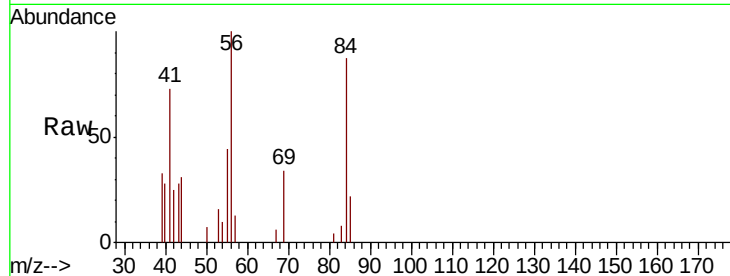




#30
Cyclohexane
Concen: 2.787 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW016633.D
Acq: 23 Sep 2020 16:49

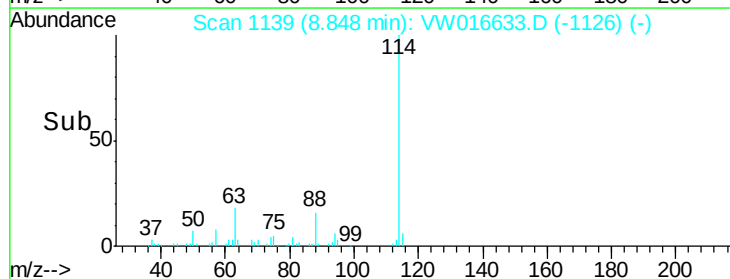
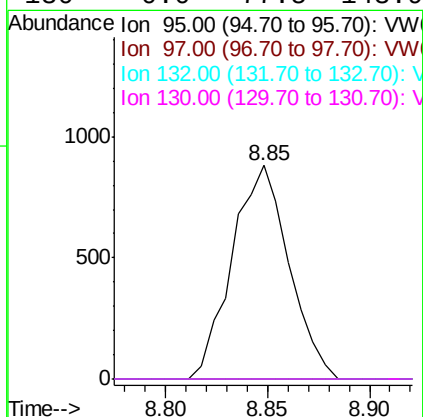
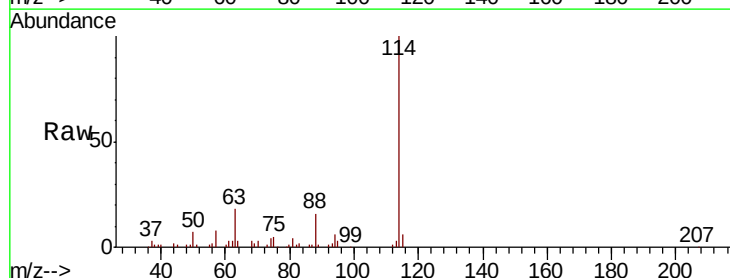
Instrument :
MSVOA_W
ClientSampleId :
BG3X3RE

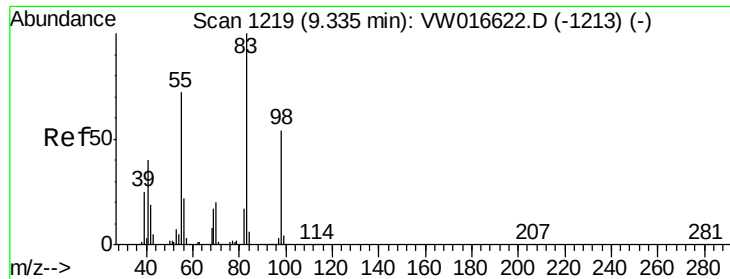
Tot Ion: 56 Resp: 2290
Ion Ratio Lower Upper
56 100
69 28.2 26.5 39.7
84 157.2 79.0 118.6#



#35
Trichloroethene
Concen: 2.932 ug/L
RT: 8.85 min Scan# 1139
Delta R.T. -0.25 min
Lab File: VW016633.D
Acq: 23 Sep 2020 16:49

Tgt Ion: 95 Resp: 1710
Ion Ratio Lower Upper
95 100
97 4.0 45.2 84.0#
132 0.0 73.3 136.1#
130 0.0 77.5 143.9#

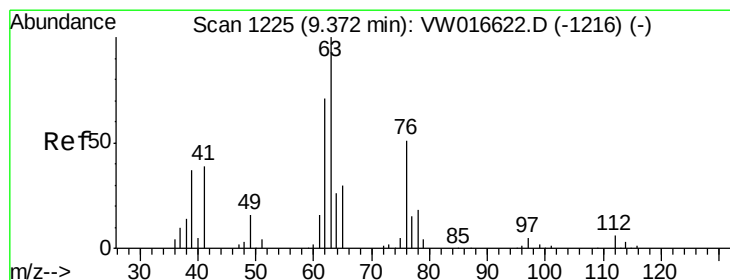
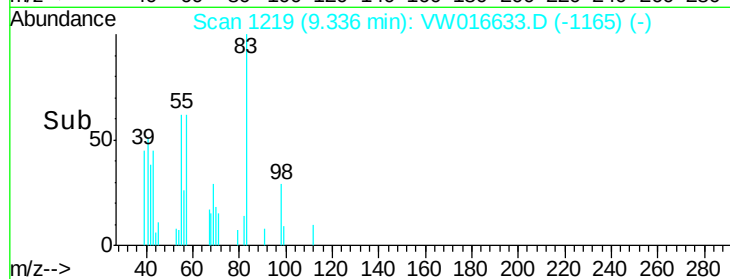
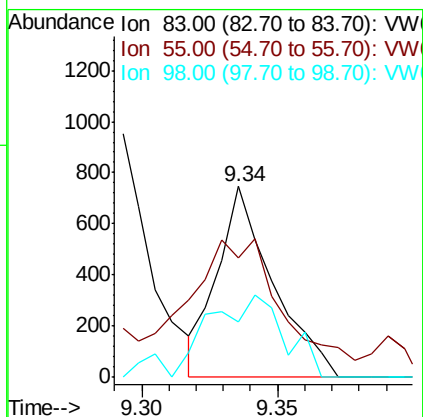
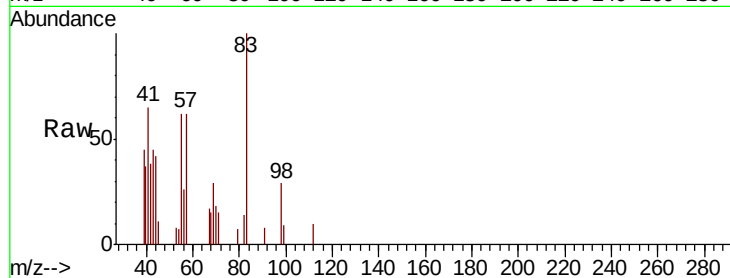




#36
Methylvlcyclohexane
Concen: 1.073 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW016633.D
Acq: 23 Sep 2020 16:49

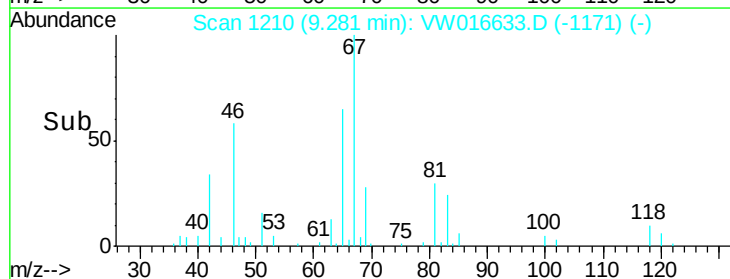
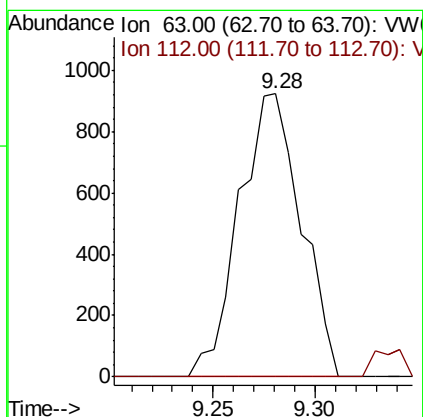
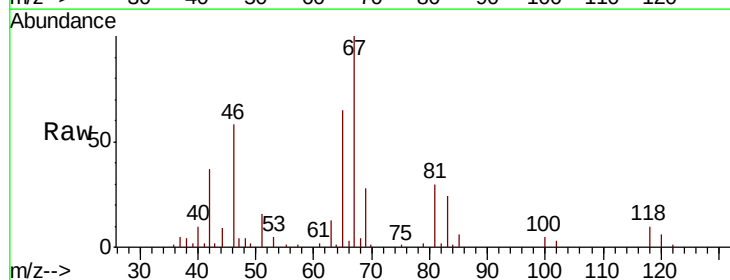
Instrument :
MSVOA_W
ClientSampleId :
BG3X3RE

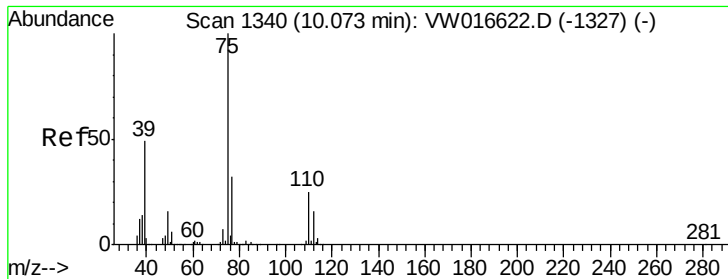
Tot Ion: 83 Resp: 1061
Ion Ratio Lower Upper
83 100
55 125.3 55.9 83.9#
98 29.5 42.1 63.1#



#40
1,2-Dichloropropane
Concen: 4.153 ug/L
RT: 9.28 min Scan# 1210
Delta R.T. -0.09 min
Lab File: VW016633.D
Acq: 23 Sep 2020 16:49

Tgt Ion: 63 Resp: 1947
Ion Ratio Lower Upper
63 100
112 4.6 4.5 6.7





#42

cis-1,3-Dichloropropene

Concen: 0.634 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

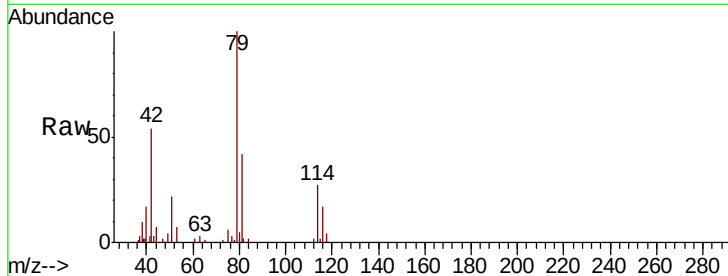
BG3X3RE

Tot Ion: 75 Resp: 508

Ion Ratio Lower Upper

75 100

77 50.2 22.2 41.2#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.04

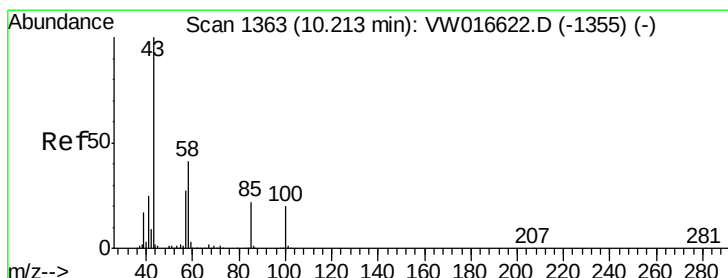
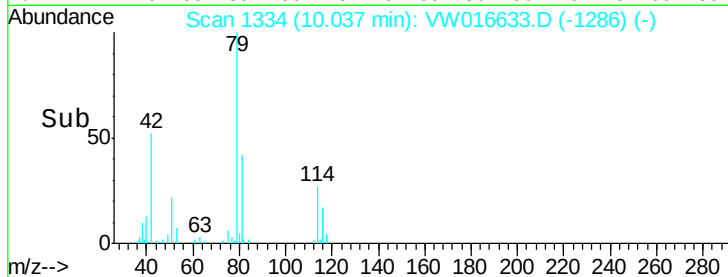
300

200

100

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 0.816 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

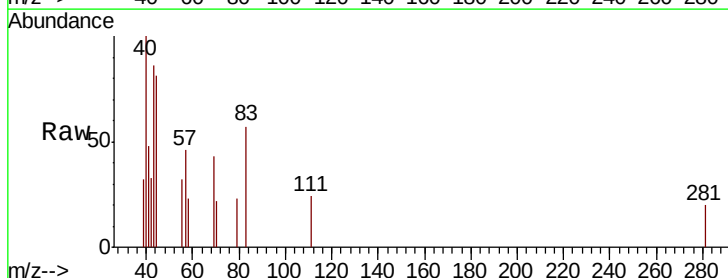
Tgt Ion: 43 Resp: 243

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#

100 0.0 15.8 23.6#



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

400

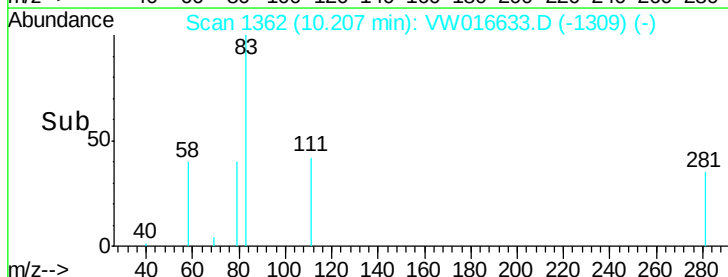
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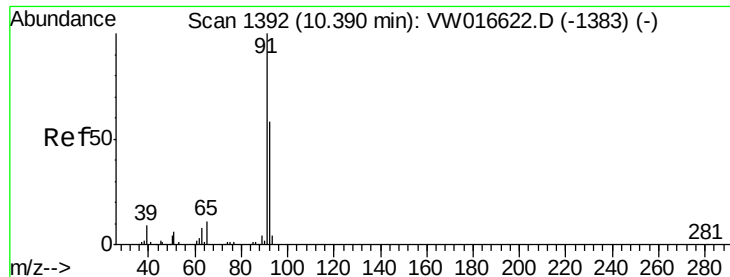
200

100

0

Time-->





#44

Toluene

Concen: 8.694 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

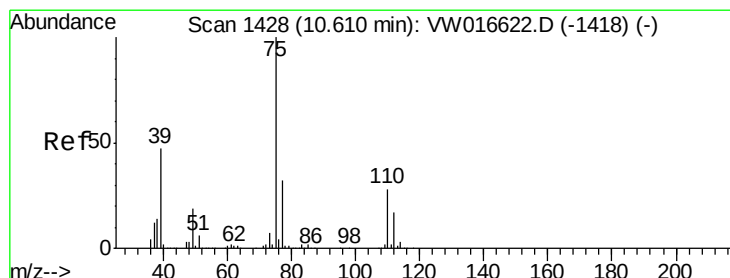
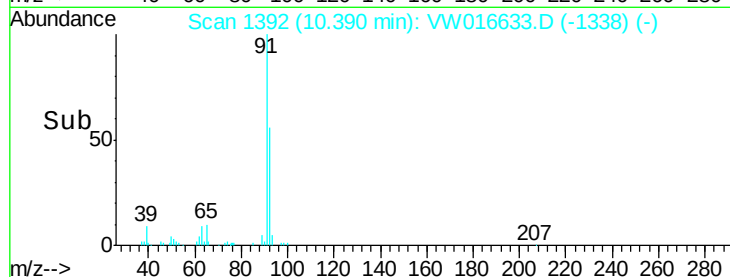
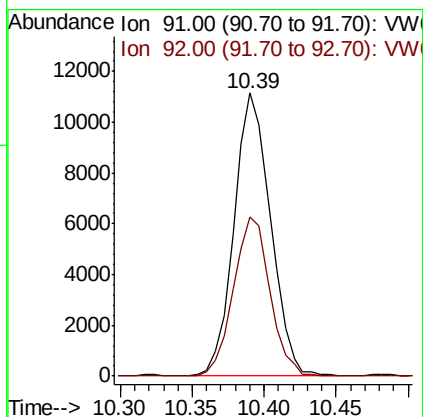
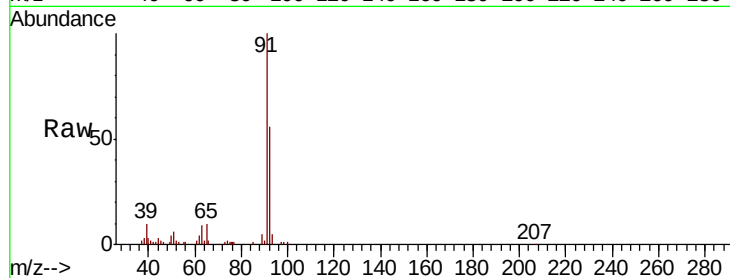
BG3X3RE

Tot Ion: 91 Resp: 19704

Ion Ratio Lower Upper

91 100

92 56.1 39.6 73.6



#45

trans-1,3-Dichloropropene

Concen: 0.514 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.03 min

Lab File: VW016633.D

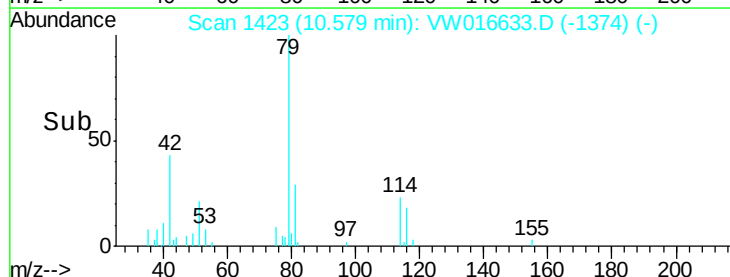
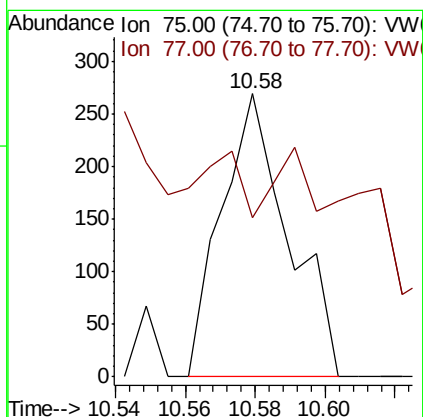
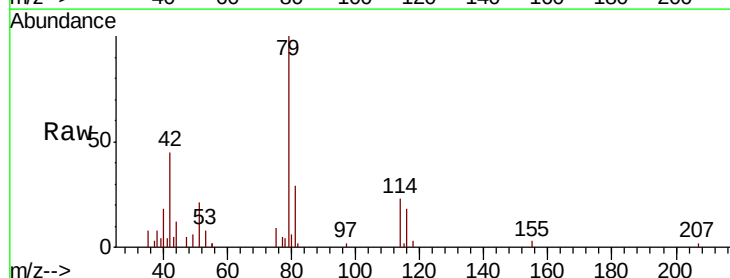
Acq: 23 Sep 2020 16:49

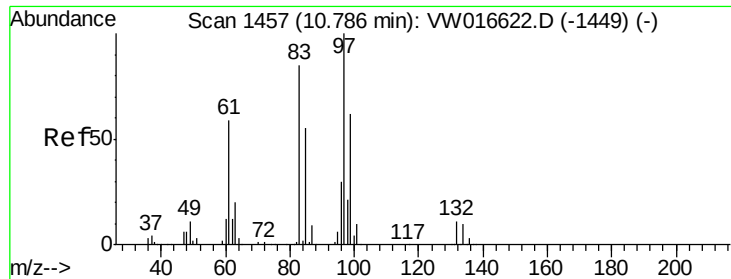
Tgt Ion: 75 Resp: 358

Ion Ratio Lower Upper

75 100

77 56.1 22.5 41.9#

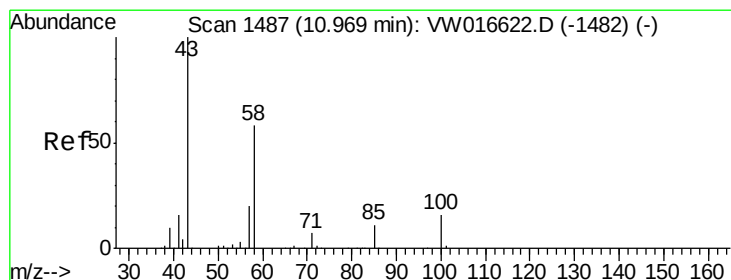
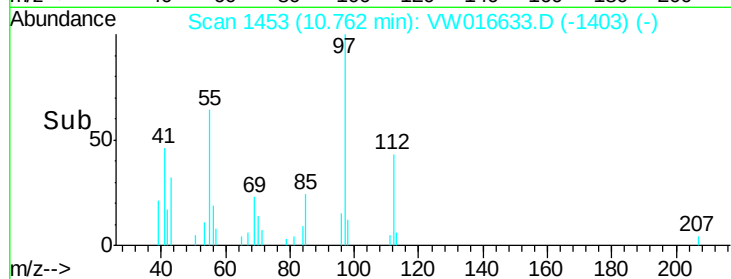
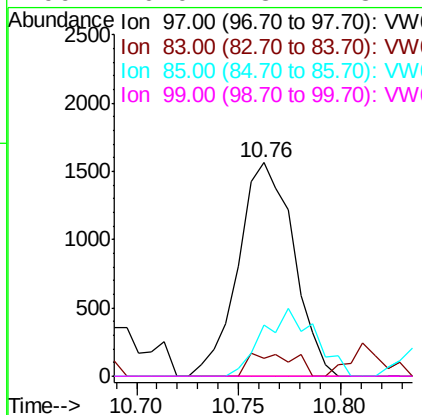
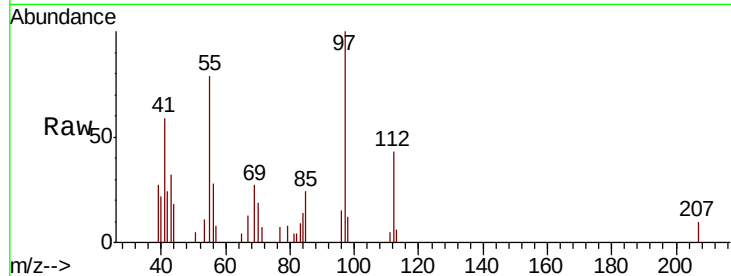




#46
 1,1,2-Trichloroethane
 Concen: 7.477 ug/L
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW016633.D
 Acq: 23 Sep 2020 16:49

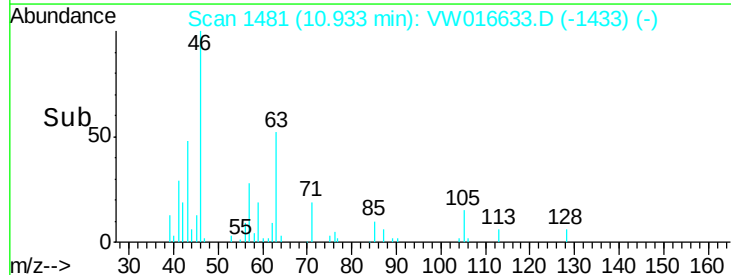
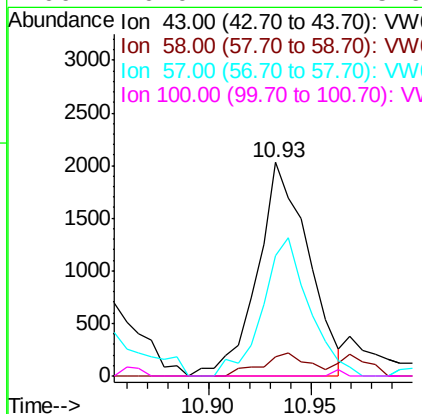
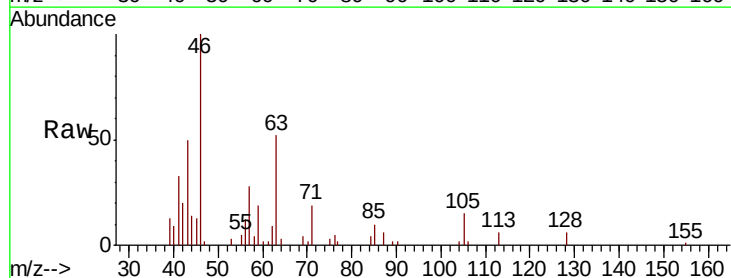
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X3RE

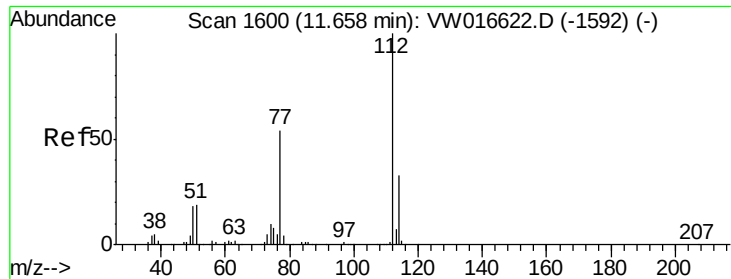
Tot Ion:	97	Resp:	2953
Ion	Ratio	Lower	Upper
97	100		
83	8.7	55.7	103.5#
85	24.2	36.8	68.4#
99	0.0	43.7	81.1#



#49
 2-Hexanone
 Concen: 18.659 ug/L
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.04 min
 Lab File: VW016633.D
 Acq: 23 Sep 2020 16:49

Tgt Ion:	43	Resp:	3527
Ion	Ratio	Lower	Upper
43	100		
58	5.2	44.2	66.2#
57	59.4	16.3	24.5#
100	0.0	12.4	18.6#





#52

Chlorobenzene

Concen: 0.266 ug/L

RT: 11.66 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X3RE

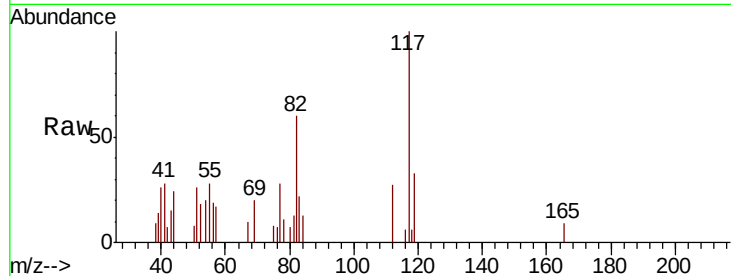
Tot Ion:112 Resp: 405

Ion Ratio Lower Upper

112 100

77 102.6 43.1 64.7#

114 0.0 22.3 41.3#

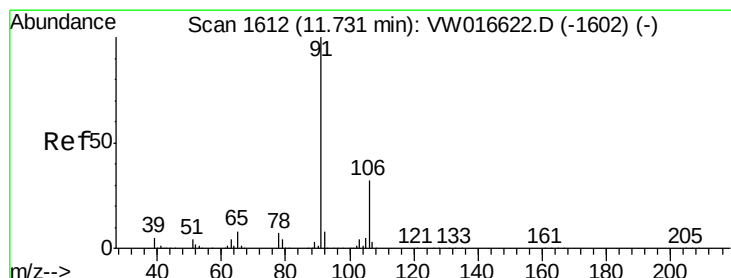
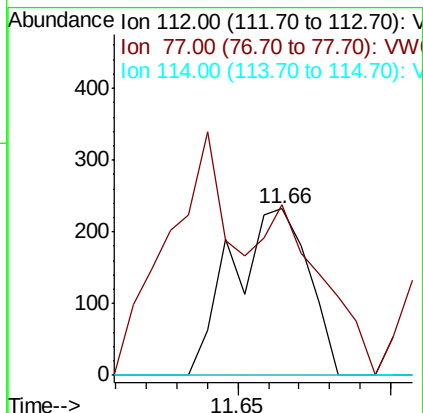
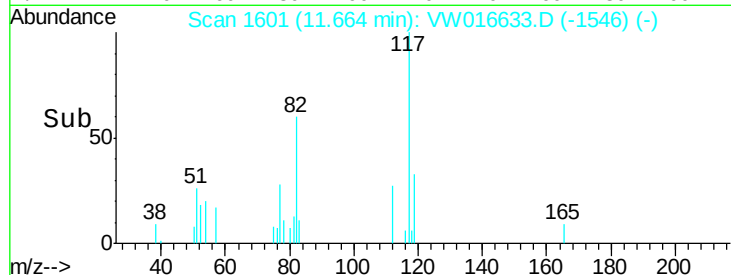


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V

Time-->



#53

Ethylbenzene

Concen: 7.729 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016633.D

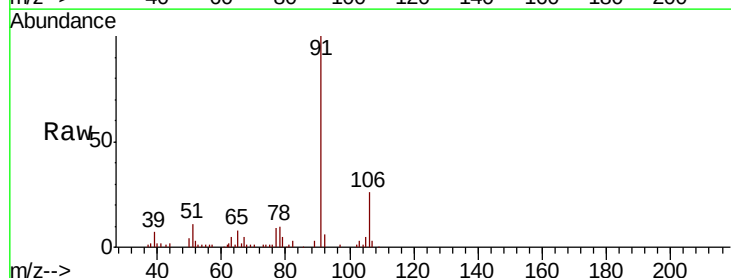
Acq: 23 Sep 2020 16:49

Tgt Ion: 91 Resp: 19887

Ion Ratio Lower Upper

91 100

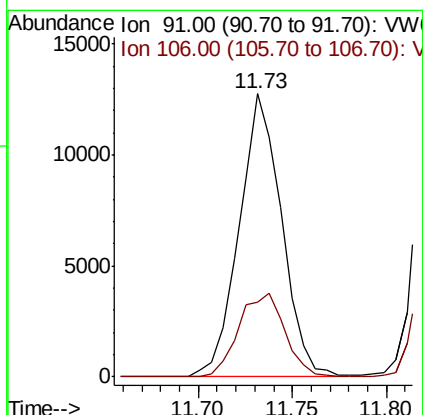
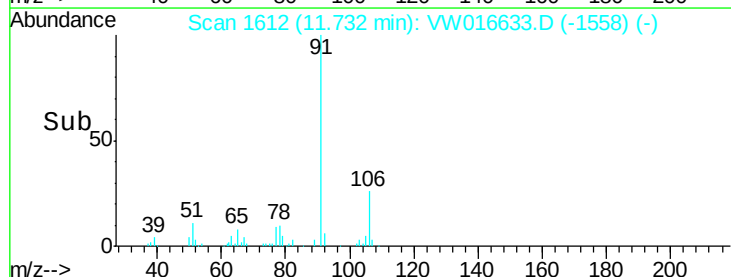
106 26.2 20.7 38.5

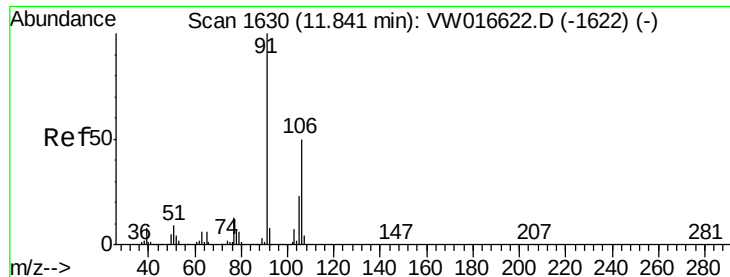


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

Time-->





#54

m,p-Xylene

Concen: 40.696 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

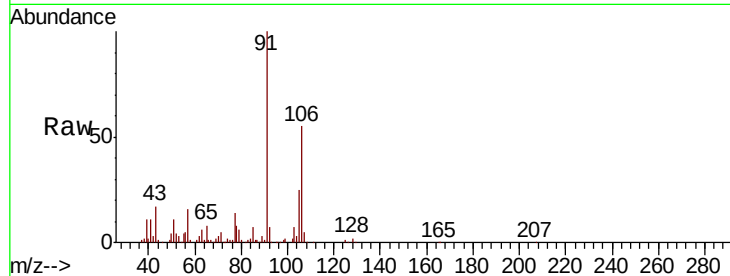
BG3X3RE

Tot Ion:106 Resp: 41004

Ion Ratio Lower Upper

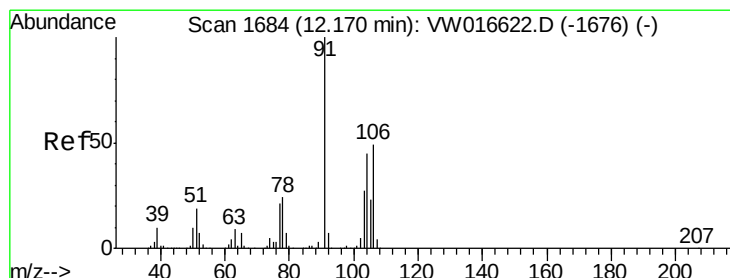
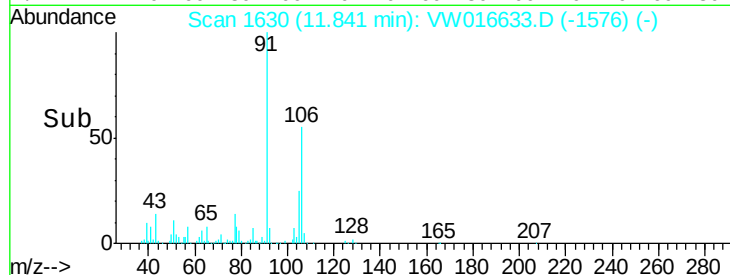
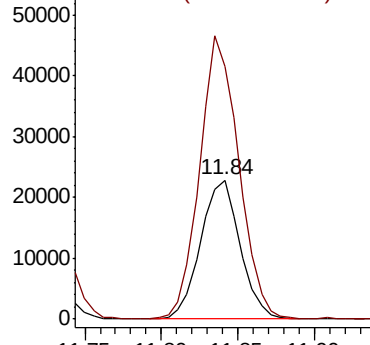
106 100

91 182.4 139.7 259.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 25.273 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW016633.D

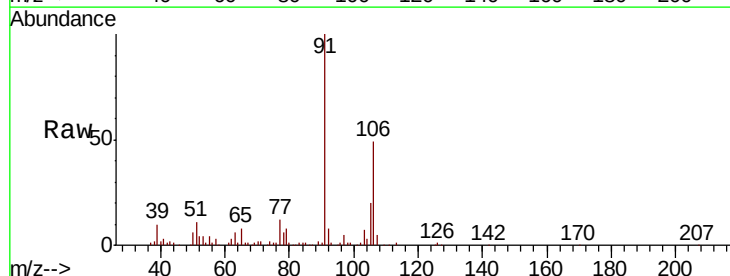
Acq: 23 Sep 2020 16:49

Tgt Ion:106 Resp: 24396

Ion Ratio Lower Upper

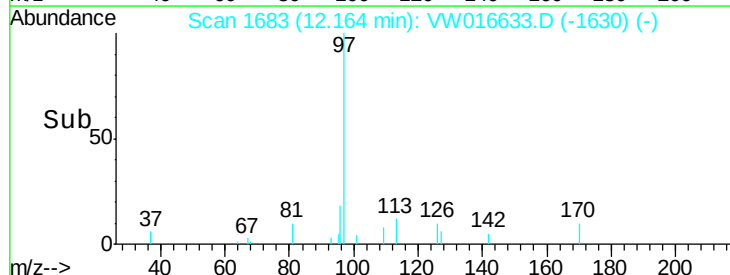
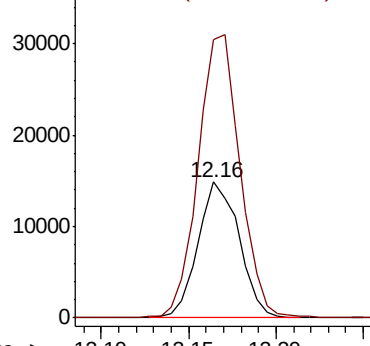
106 100

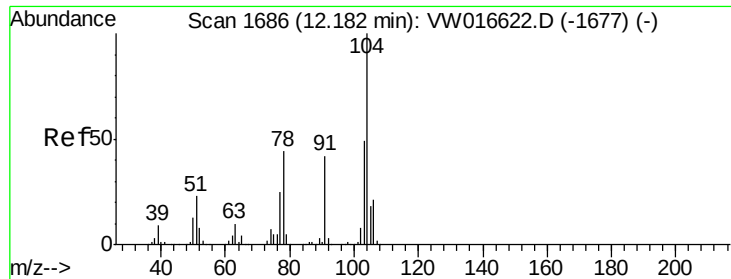
91 203.9 144.8 268.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 0.880 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampled :

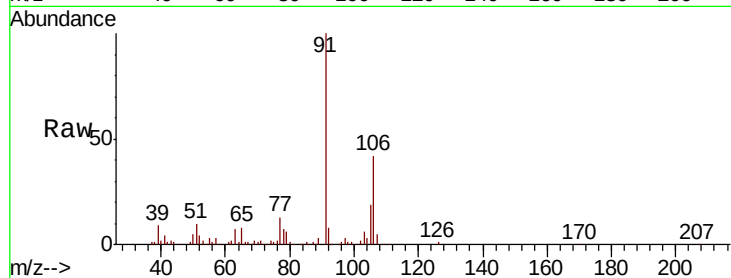
BG3X3RE

Tot Ion:104 Resp: 1411

Ion Ratio Lower Upper

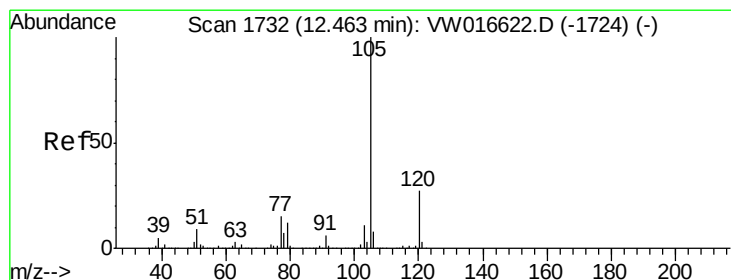
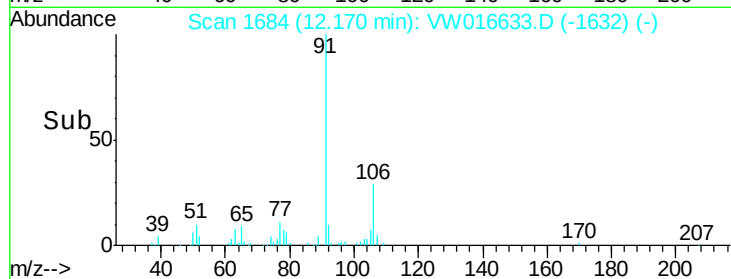
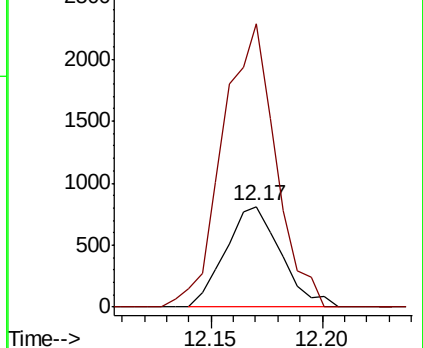
104 100

78 281.0 31.4 58.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V



#57

Isopropylbenzene

Concen: 4.377 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

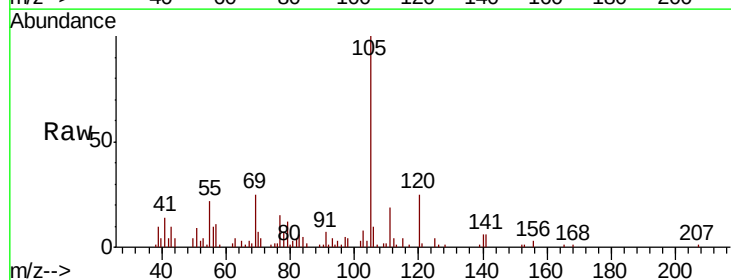
Tgt Ion:105 Resp: 11545

Ion Ratio Lower Upper

105 100

120 27.7 21.8 32.8

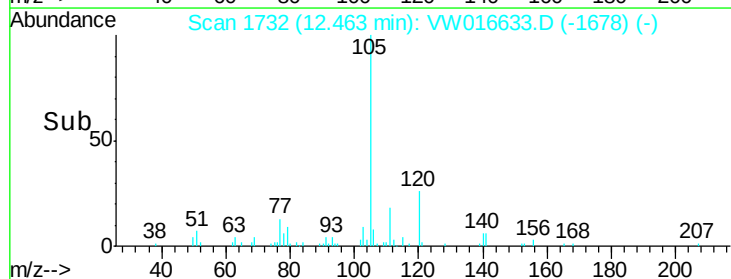
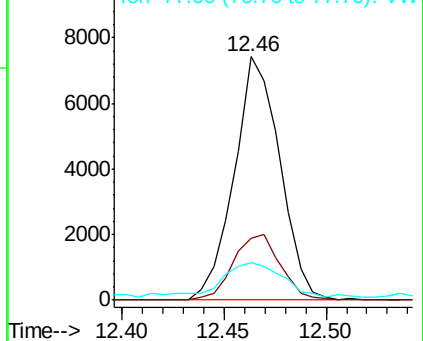
77 18.3 12.2 18.2#

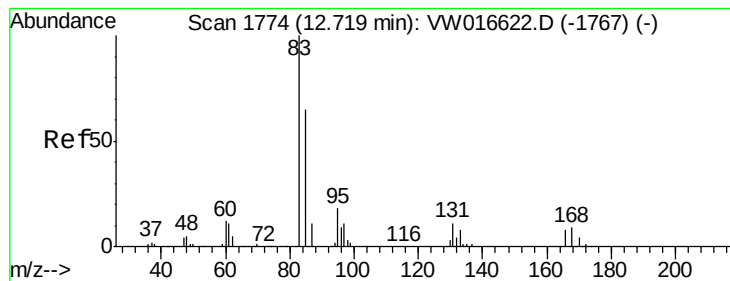


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 1.938 ug/L

RT: 12.71 min Scan# 1772

Delta R.T. -0.01 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X3RE

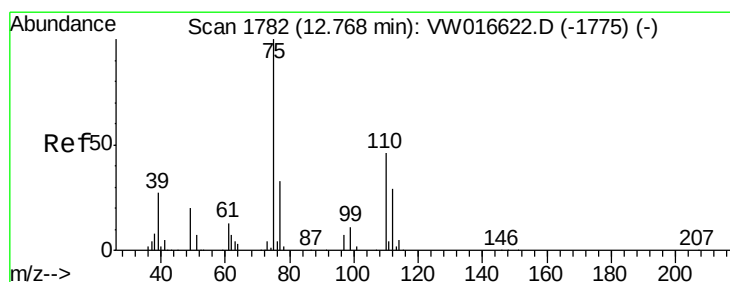
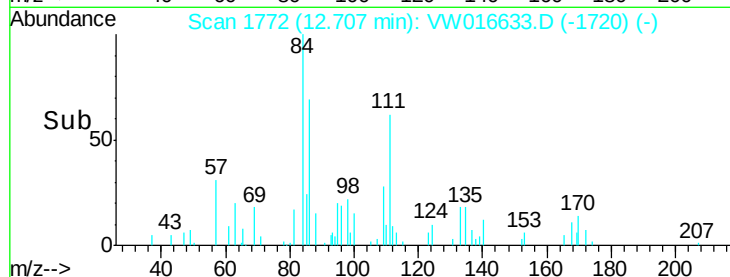
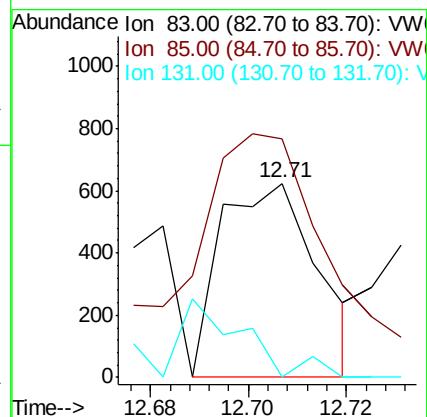
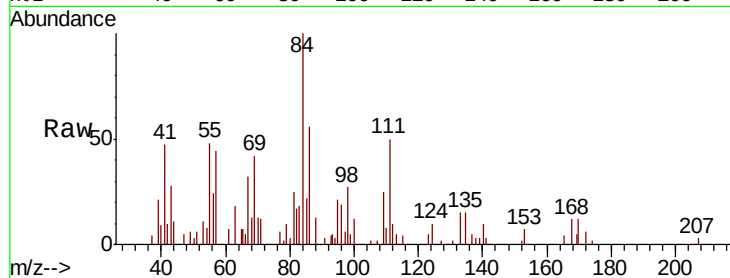
Tot Ion: 83 Resp: 856

Ion Ratio Lower Upper

83 100

85 123.2 46.0 85.4#

131 0.0 9.0 13.6#



#59

1,2,3-Trichloropropane

Concen: 1.243 ug/L

RT: 12.81 min Scan# 1789

Delta R.T. 0.04 min

Lab File: VW016633.D

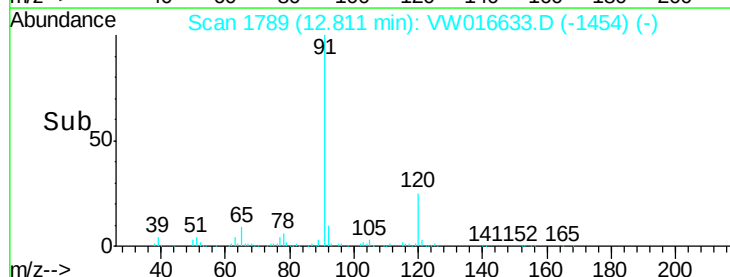
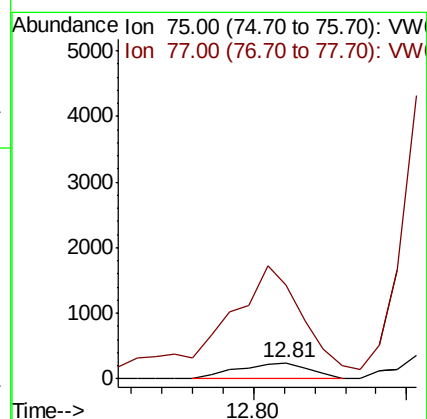
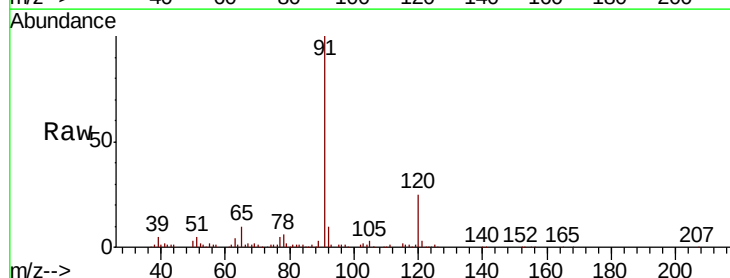
Acq: 23 Sep 2020 16:49

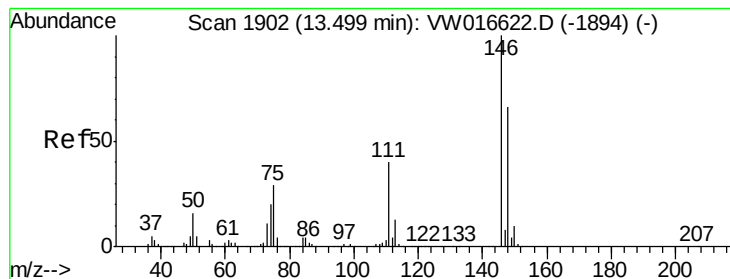
Tgt Ion: 75 Resp: 409

Ion Ratio Lower Upper

75 100

77 571.9 26.2 39.4#





#63

1,3-Dichlorobenzene

Concen: 1.520 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X3RE

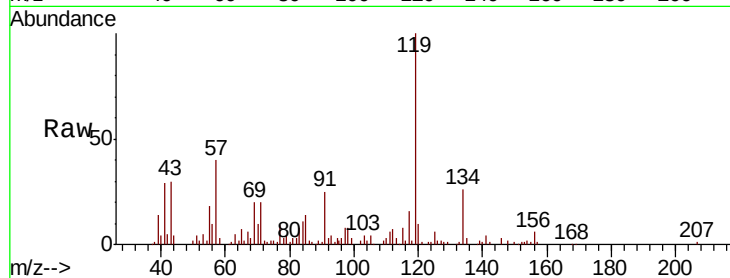
Tot Ion:146 Resp: 947

Ion Ratio Lower Upper

146 100

111 185.6 25.0 46.4#

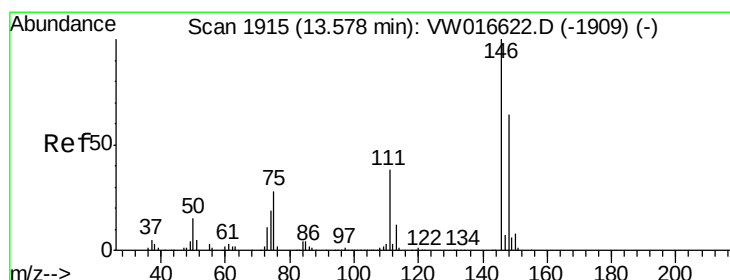
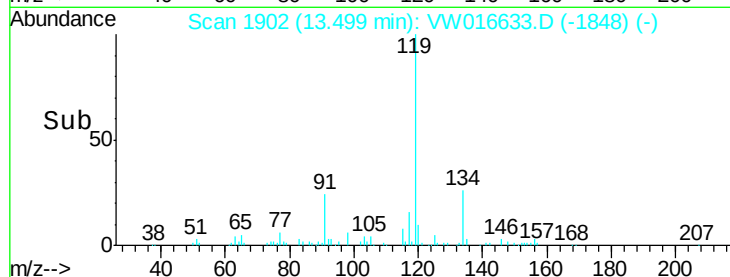
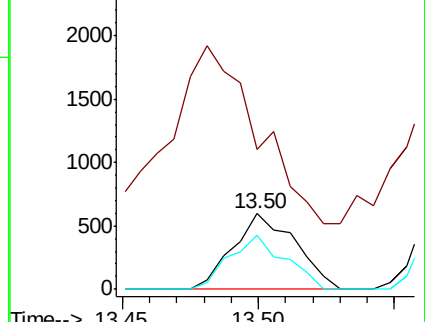
148 70.9 44.0 81.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 8.010 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

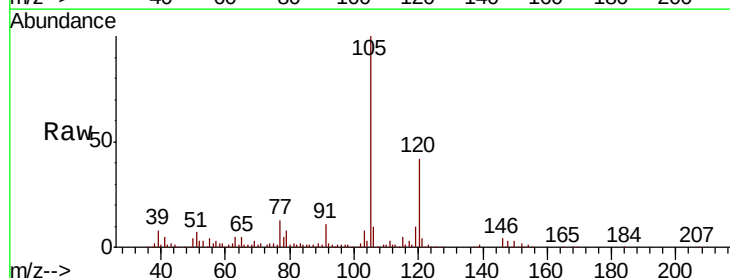
Tgt Ion:146 Resp: 4886

Ion Ratio Lower Upper

146 100

111 88.6 25.1 46.5#

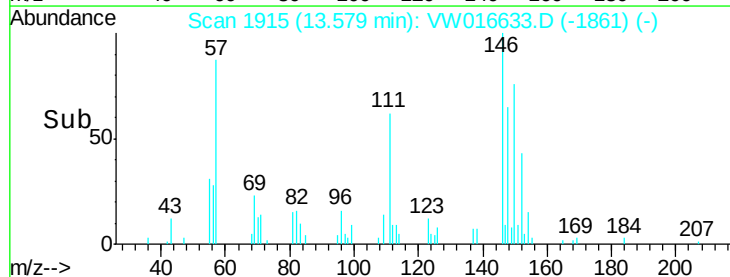
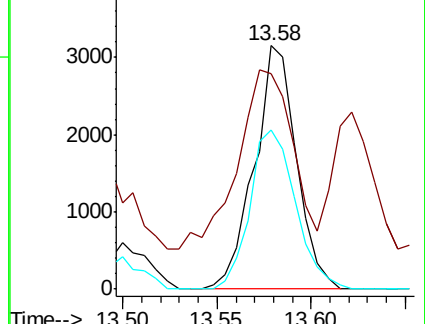
148 65.3 42.3 78.5

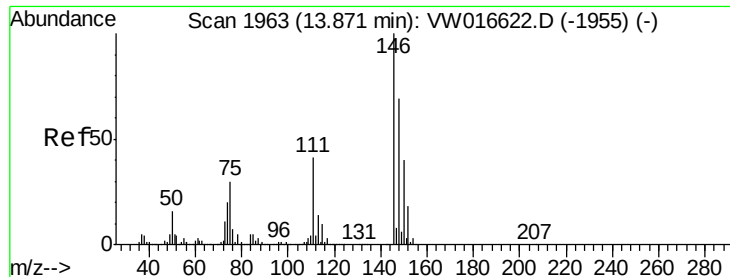


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 10.470 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X3RE

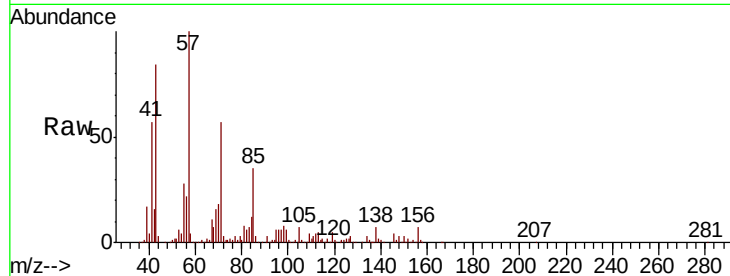
Tot Ion:146 Resp: 5827

Ion Ratio Lower Upper

146 100

111 74.8 31.4 47.0#

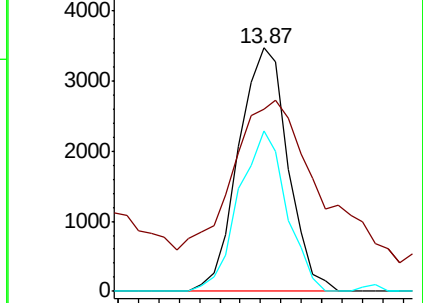
148 65.9 49.3 73.9



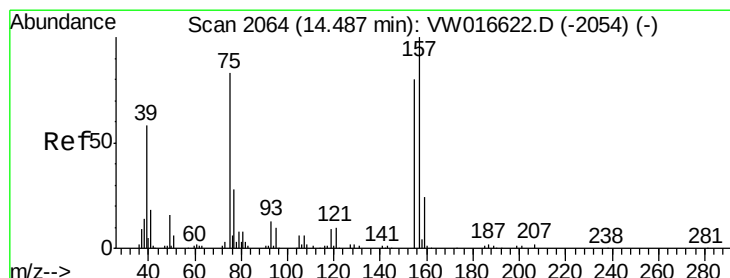
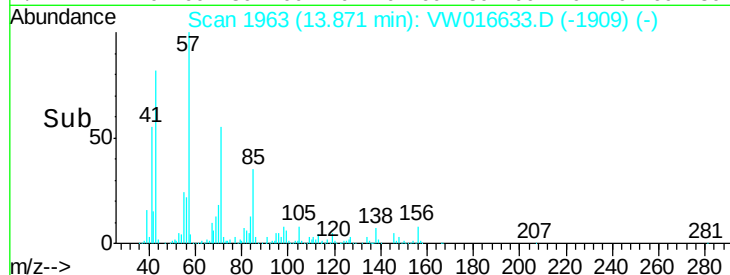
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



Time--> 13.80 13.85 13.90



#66

1,2-Dibromo-3-chloropropane

Concen: 223.445 ug/L

RT: 14.46 min Scan# 2059

Delta R.T. -0.03 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

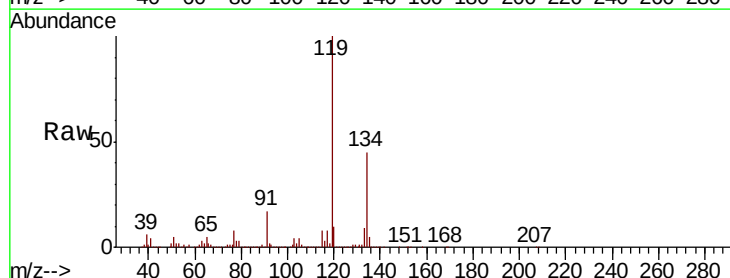
Tgt Ion: 75 Resp: 8914

Ion Ratio Lower Upper

75 100

157 0.0 92.2 138.4#

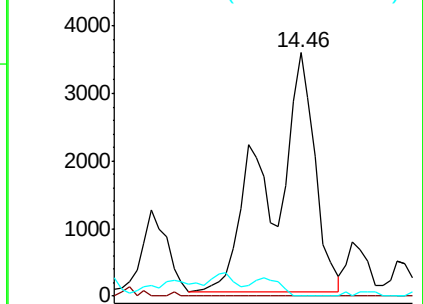
155 0.0 73.5 110.3#



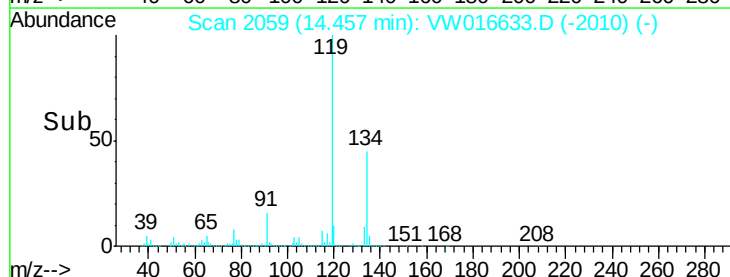
Abundance Ion 75.00 (74.70 to 75.70): VW

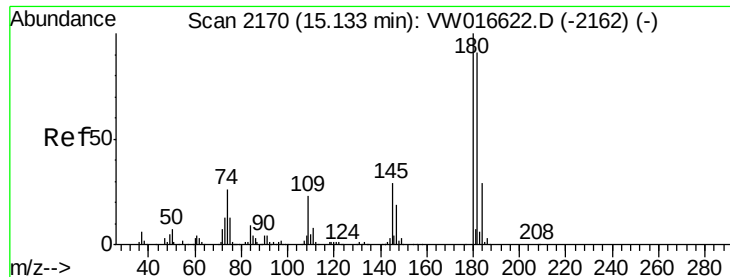
Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V



Time--> 14.40 14.50





#68

1,2,4-trichlorobenzene

Concen: 0.855 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X3RE

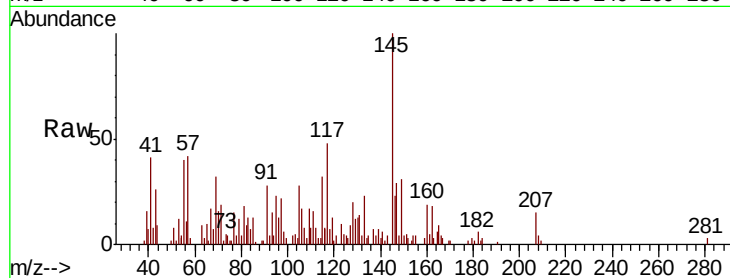
Tot Ion:180 Resp: 315

Ion Ratio Lower Upper

180 100

182 59.4 74.5 111.7#

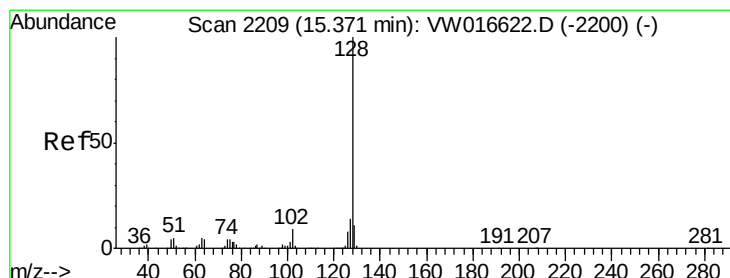
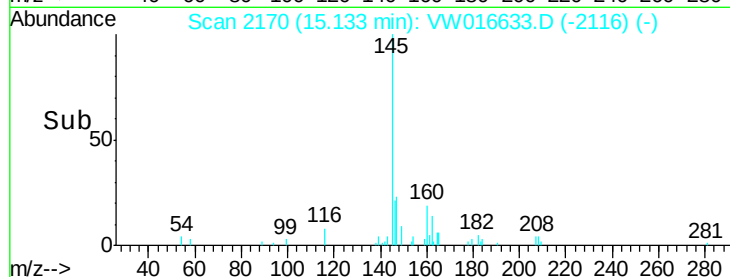
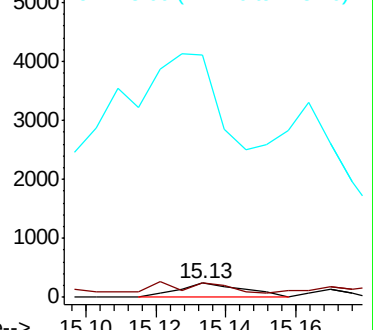
145 3670.2 23.1 34.7#



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: 205.379 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

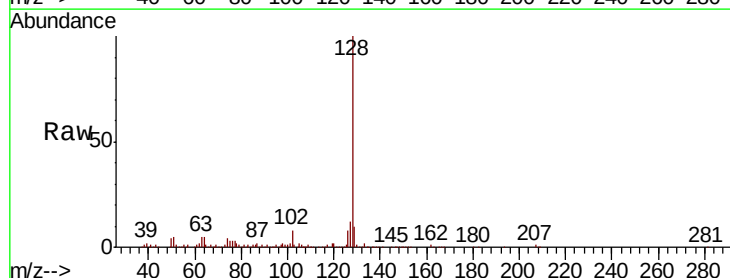
Tgt Ion:128 Resp: 134161

Ion Ratio Lower Upper

128 100

129 10.0 8.9 13.3

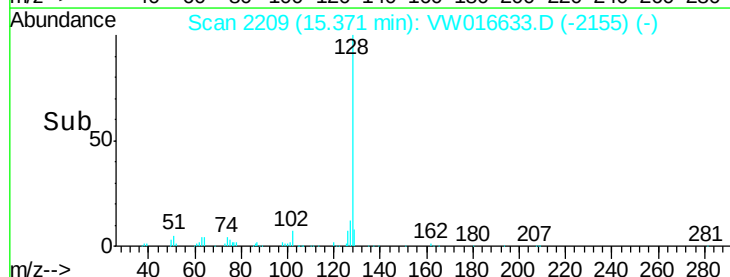
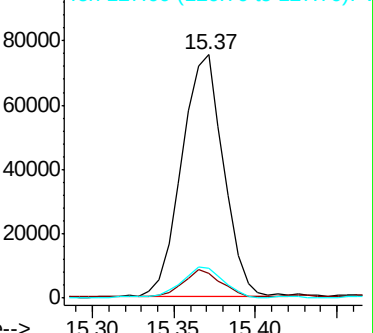
127 12.4 10.8 16.2

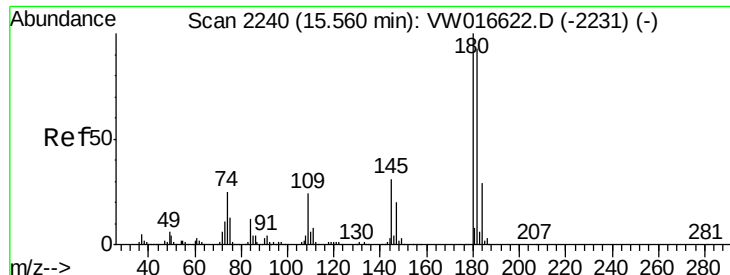


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70

1,2,3-Trichlorobenzene

Concen: 0.398 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW016633.D

Acq: 23 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X3RE

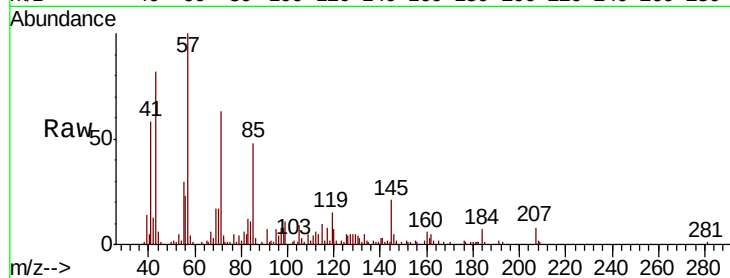
Tot Ion:180 Resp: 126

Ion Ratio Lower Upper

180 100

182 200.8 76.3 114.5#

145 3169.8 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

