

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101520\
 Data File : VW016902.D
 Acq On : 14 Oct 2020 14:00
 Operator : SY/VA
 Sample : L4382-12
 Misc : 5.70G/10ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y0

Quant Time: Oct 15 08:37:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100720S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 15 08:29:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	429345	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.65	117	295422	25.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	13.56	152	126598	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	95824	22.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.48%
7) Chloroethane-d5	2.90	69	87576	24.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.60%
10) 1,1-Dichloroethene-d2	4.03	63	161547	17.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	71.84%
20) 2-Butanone-d5	7.08	46	54168	56.46	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.92%
24) Chloroform-d	7.65	84	234202	25.85	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.40%
26) 1,2-Dichloroethane-d4	8.31	65	122262	27.94	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	111.76%
29) Benzene-d6	8.28	84	449396	33.49	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	133.96%
33) 1,2-Dichloropropane-d6	9.28	67	122008	33.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	135.36%#
37) Toluene-d8	10.34	98	394882	31.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	124.76%
38) trans-1,3-Dichloropropene-	10.59	79	55457	34.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	139.48%#
39) 2-Hexanone-d5	10.94	63	3277	5.88	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	11.76%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	86425	29.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	118.68%
61) 1,2-Dichlorobenzene-d4	13.86	152	109054	27.16	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	108.64%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.36	62	1826	0.311	ug/L #	1
12) 1,1-Dichloroethene	4.06	96	15136	2.727	ug/L #	1
13) Acetone	4.14	43	5985	8.244	ug/L	99
14) Carbon disulfide	4.40	76	10653	0.669	ug/L #	94
16) Methylene chloride	4.93	84	6695	1.130	ug/L	92
19) 1,1-Dichloroethane	6.22	63	2918	0.327	ug/L #	96
22) cis-1,2-Dichloroethene	7.18	96	11245	1.900	ug/L	97
34) Benzene	8.33	78	351450	22.153	ug/L	100
35) Trichloroethene	9.10	95	1772344	394.953	ug/L	99
36) Methylcyclohexane	9.28	83	32864	4.356	ug/L #	22
42) cis-1,3-Dichloropropene	10.04	75	4234	0.740	ug/L #	75
45) trans-1,3-Dichloropropene	10.59	75	2249	0.467	ug/L	88
47) Tetrachloroethene	10.86	164	6491144	1560.234	ug/L	95
49) 2-Hexanone	10.99	43	4718	3.958	ug/L #	37
50) Dibromochloromethane	11.14	129	4530	1.250	ug/L #	12
53) Ethylbenzene	11.74	91	9621	0.487	ug/L	95
54) m,p-Xylene	11.85	106	19365	2.522	ug/L	90

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Quant Title : VOC Analysis
QLast Update : Thu Oct 15 08:29:28 2020
Response via : Initial Calibration

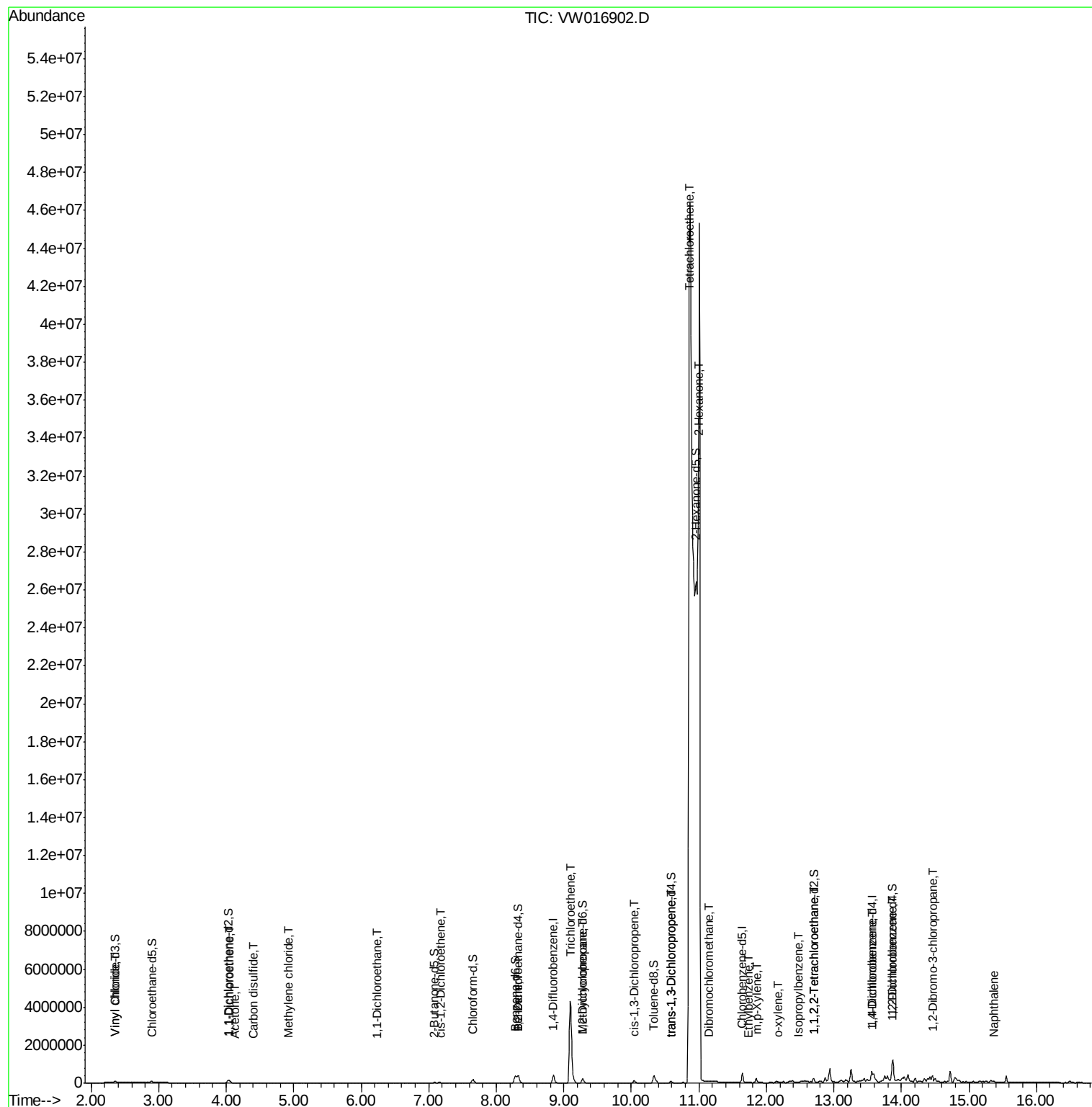
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.18	106	10554	1.439	ug/L	96
57) Isopropylbenzene	12.47	105	16329	0.813	ug/L #	97
58) 1,1,2,2-Tetrachloroethane	12.70	83	1933	0.600	ug/L #	1
64) 1,4-Dichlorobenzene	13.58	146	39003	4.840	ug/L #	90
65) 1,2-Dichlorobenzene	13.87	146	40879	5.667	ug/L #	87
66) 1,2-Dibromo-3-chloropropan	14.46	75	1191	2.722	ug/L #	1
69) Naphthalene	15.37	128	52786	6.480	ug/L	97

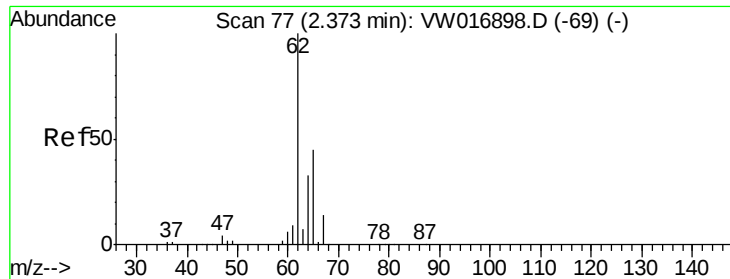
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.311 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampled :

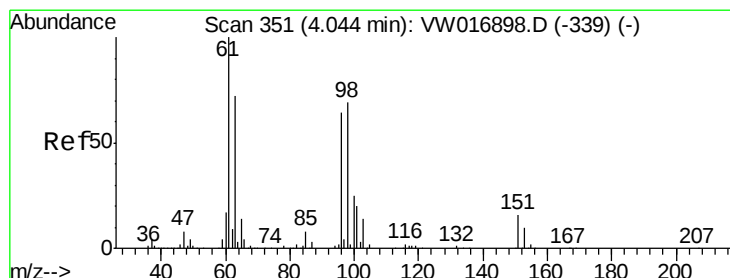
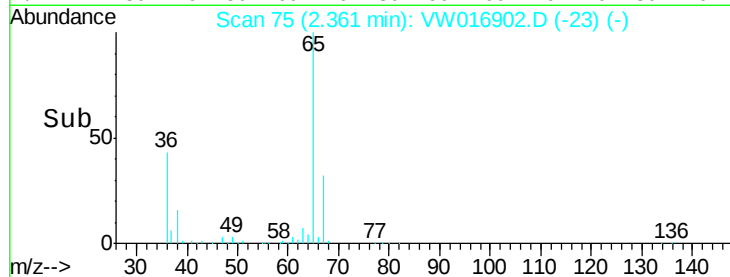
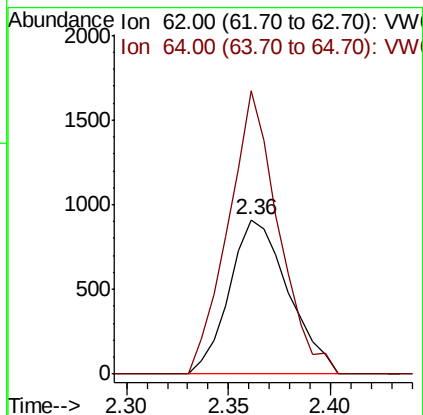
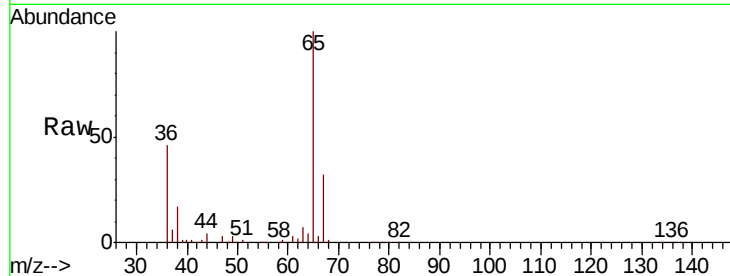
BG3Y0

Tot Ion: 62 Resp: 1826

Ion Ratio Lower Upper

62 100

64 183.5 23.5 43.7#



#12

1,1-Dichloroethene

Concen: 2.727 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

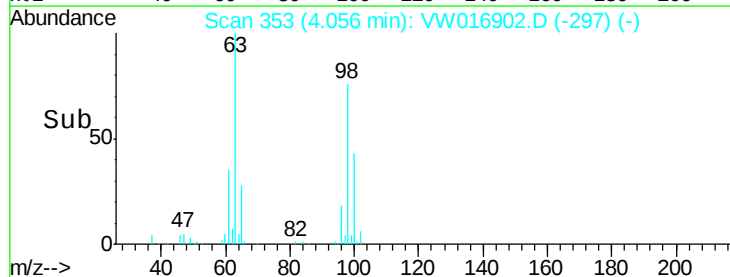
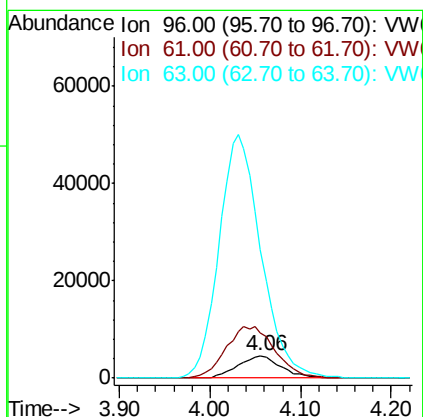
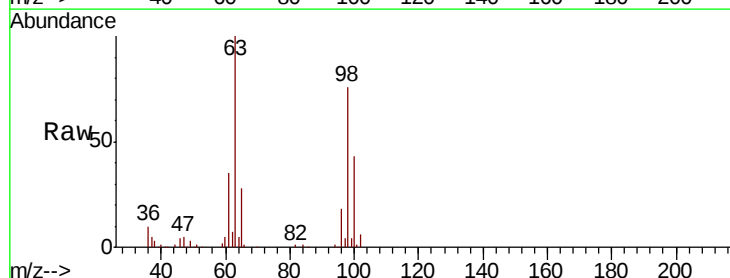
Tgt Ion: 96 Resp: 15136

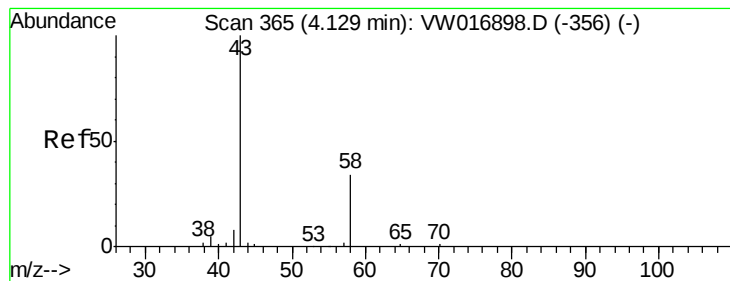
Ion Ratio Lower Upper

96 100

61 200.9 105.1 195.1#

63 569.8 69.9 129.7#





#13

Acetone

Concen: 8.244 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampled :

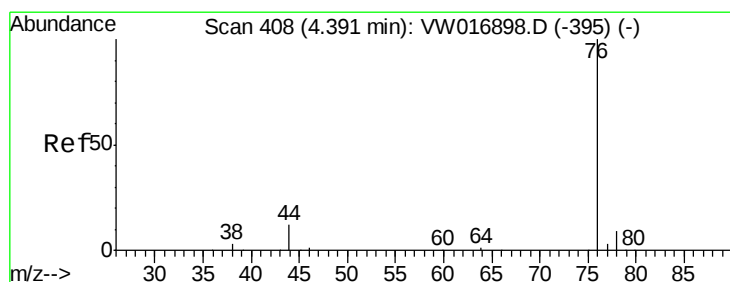
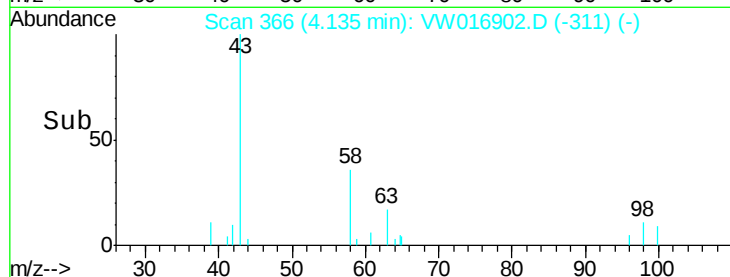
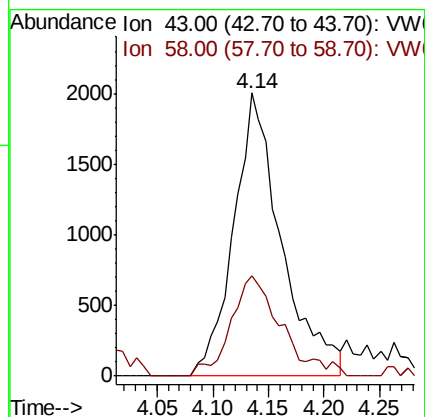
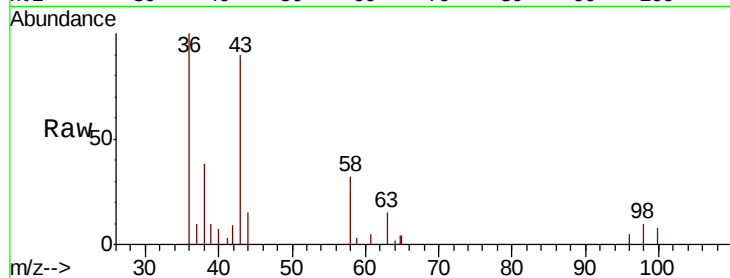
BG3Y0

Tot Ion: 43 Resp: 5985

Ion Ratio Lower Upper

43 100

58 33.1 0.0 67.6



#14

Carbon disulfide

Concen: 0.669 ug/L

RT: 4.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VW016902.D

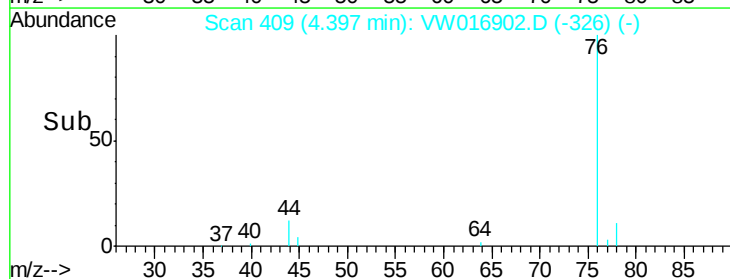
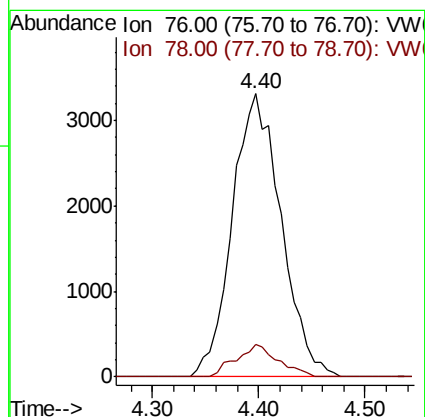
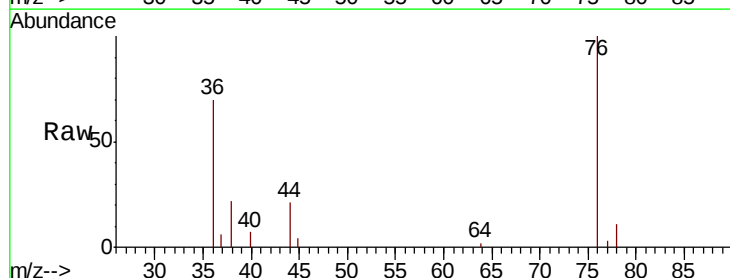
Acq: 14 Oct 2020 14:00

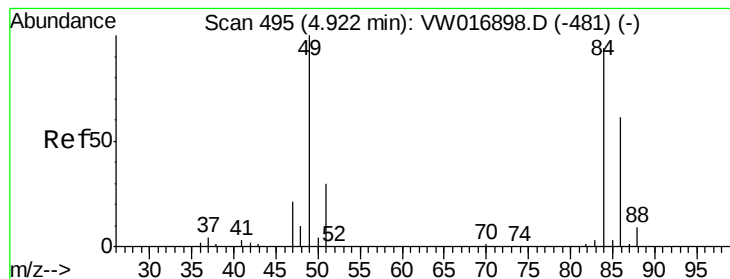
Tgt Ion: 76 Resp: 10653

Ion Ratio Lower Upper

76 100

78 11.3 7.4 11.0#





#16

Methylene chloride

Concen: 1.130 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampled :

BG3Y0

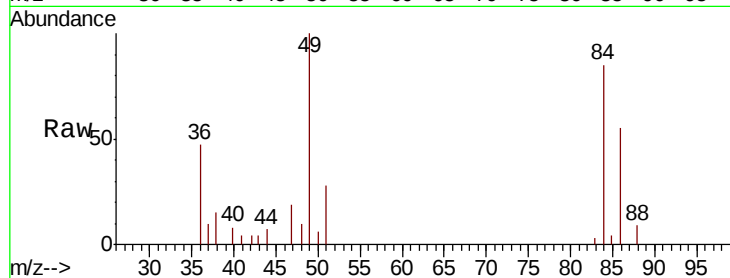
Tot Ion: 84 Resp: 6695

Ion Ratio Lower Upper

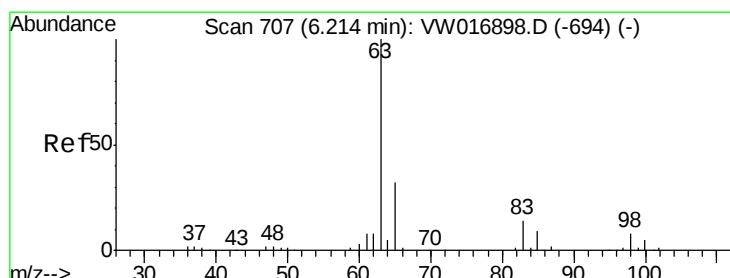
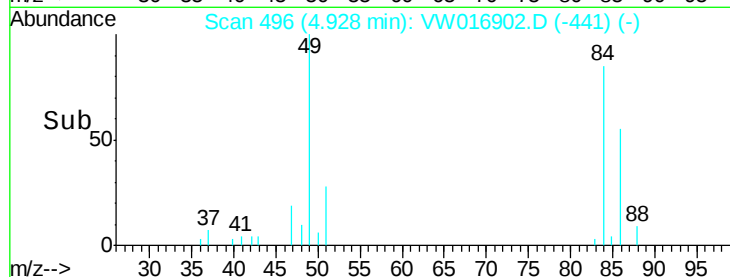
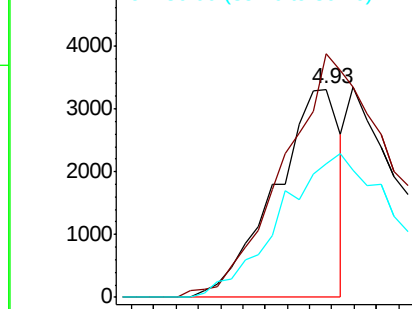
84 100

49 117.2 73.1 135.8

86 64.5 46.0 85.4



Abundance Ion 84.00 (83.70 to 84.70): VW
Ion 49.00 (48.70 to 49.70): VW
Ion 86.00 (85.70 to 86.70): VW



#19

1,1-Dichloroethane

Concen: 0.327 ug/L

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

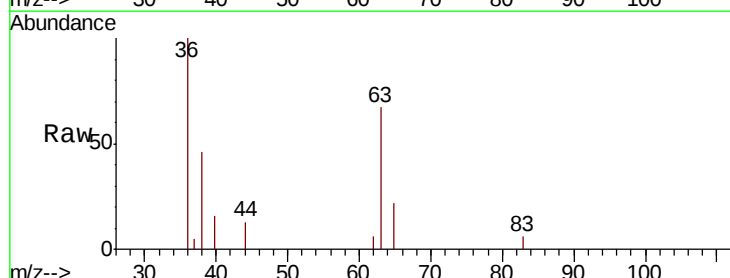
Tgt Ion: 63 Resp: 2918

Ion Ratio Lower Upper

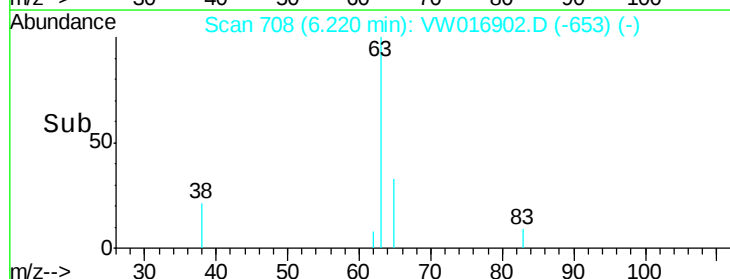
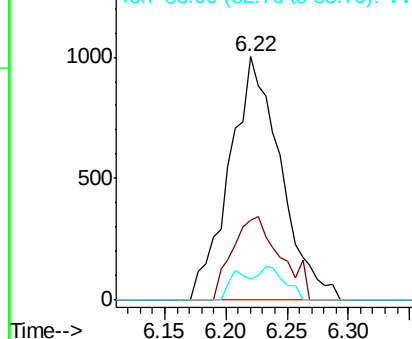
63 100

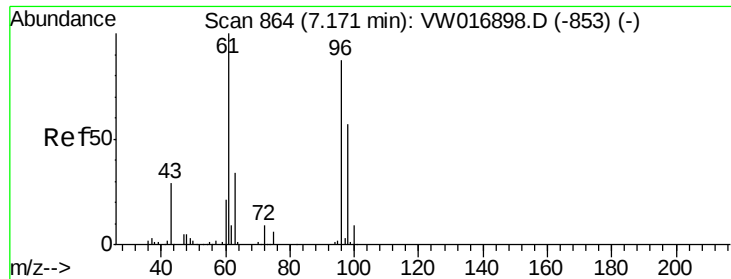
65 32.5 22.7 42.1

83 8.8 9.9 18.5#



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 65.00 (64.70 to 65.70): VW
Ion 83.00 (82.70 to 83.70): VW





#22

cis-1,2-Dichloroethene

Concen: 1.900 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

BG3Y0

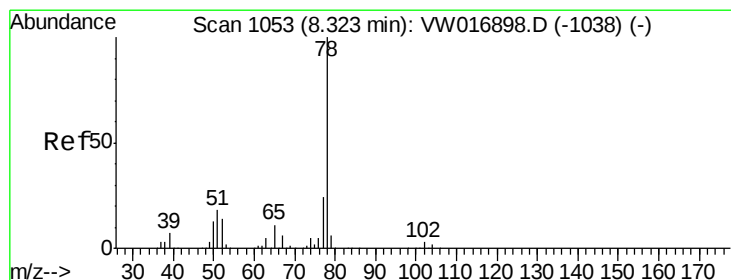
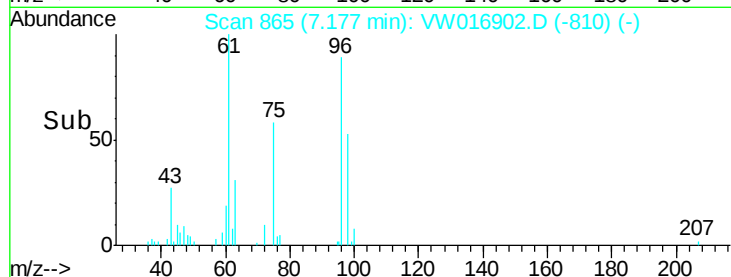
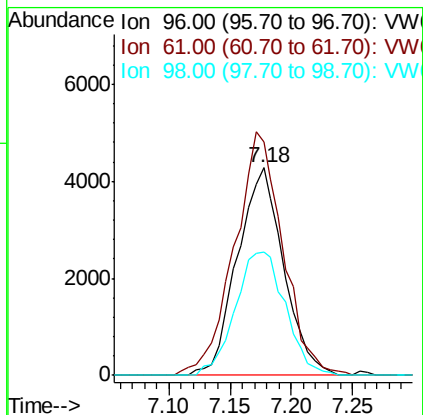
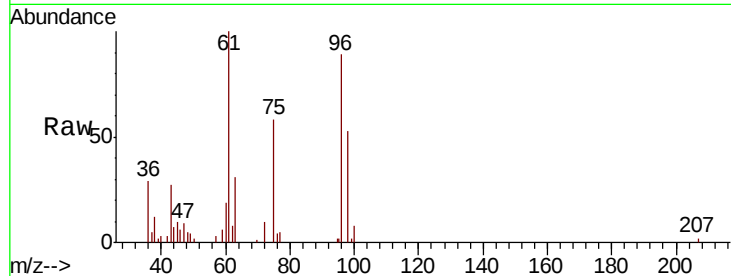
Tot Ion: 96 Resp: 11245

Ion Ratio Lower Upper

96 100

61 112.4 76.0 141.2

98 59.5 42.7 79.3



#34

Benzene

Concen: 22.153 ug/L

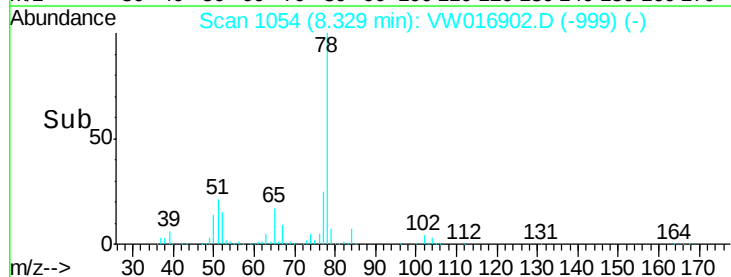
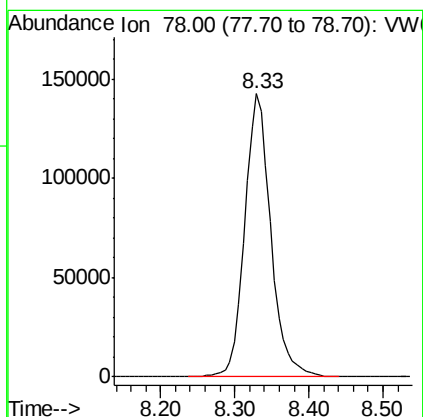
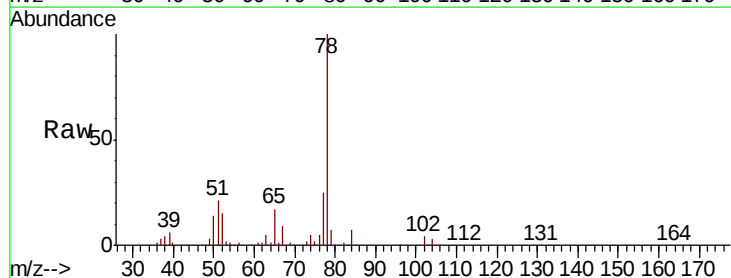
RT: 8.33 min Scan# 1054

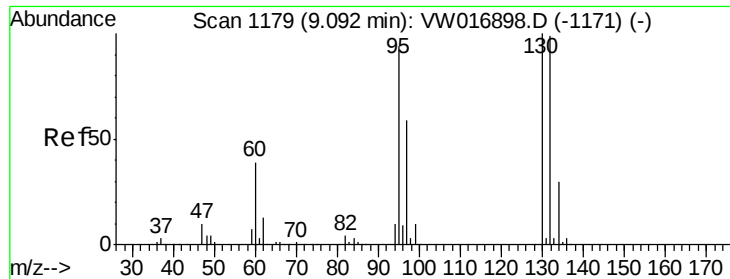
Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Tgt Ion: 78 Resp: 351450





#35

Trichloroethene

Concen: 394.953 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

BG3Y0

Tot Ion: 95 Resp: 1772344

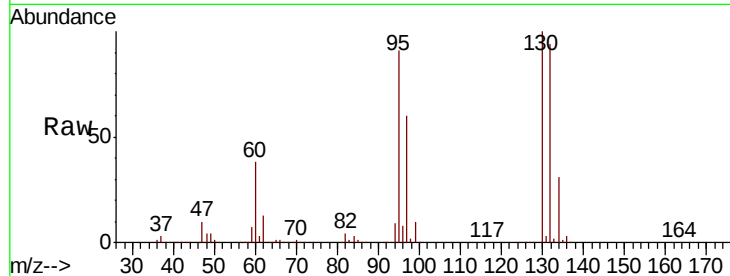
Ion Ratio Lower Upper

95 100

97 65.1 44.7 83.1

132 105.5 73.8 137.2

130 109.3 77.1 143.3

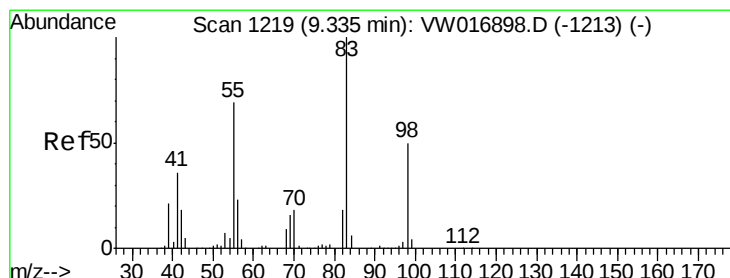
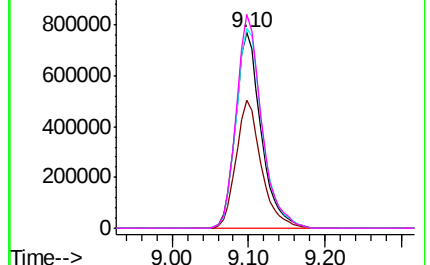
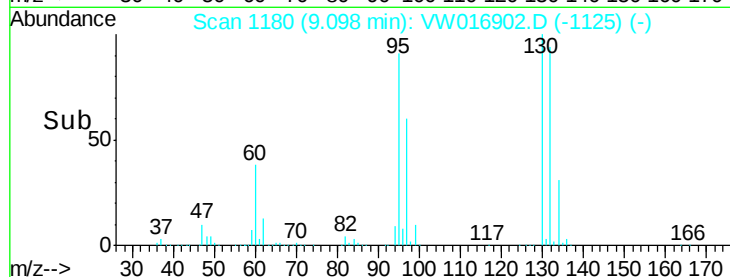


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 4.356 ug/L

RT: 9.28 min Scan# 1210

Delta R.T. -0.05 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

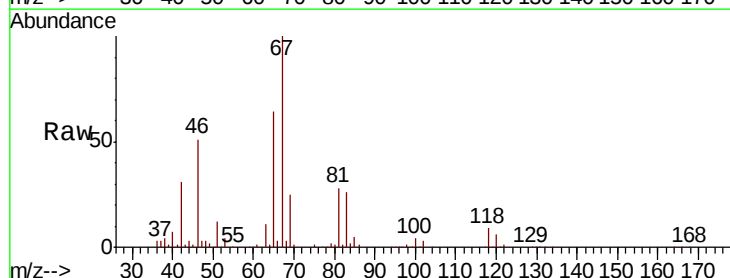
Tgt Ion: 83 Resp: 32864

Ion Ratio Lower Upper

83 100

55 0.8 54.2 81.4#

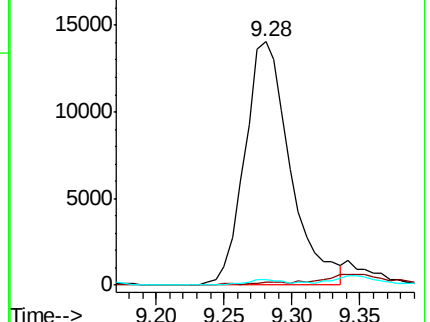
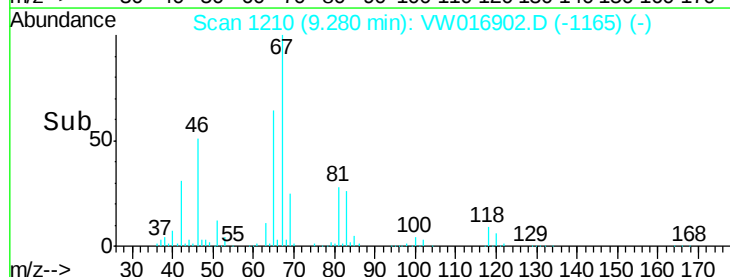
98 1.7 41.4 62.2#

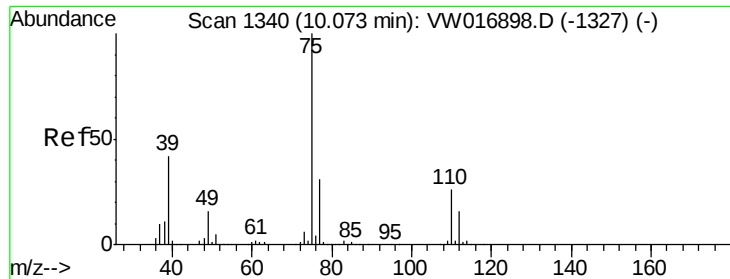


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#42

cis-1,3-Dichloropropene

Concen: 0.740 ug/L

RT: 10.04 min Scan# 1335

Delta R.T. -0.03 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

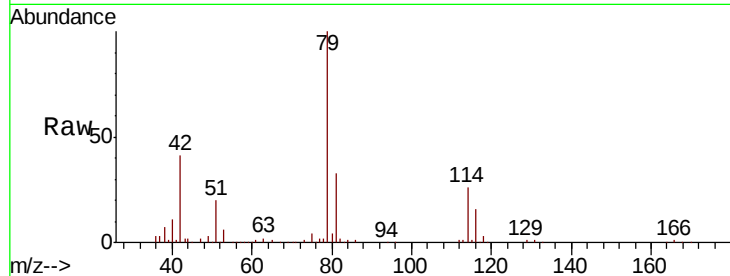
BG3Y0

Tot Ion: 75 Resp: 4234

Ion Ratio Lower Upper

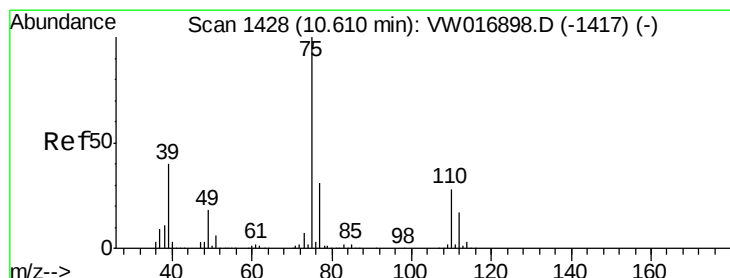
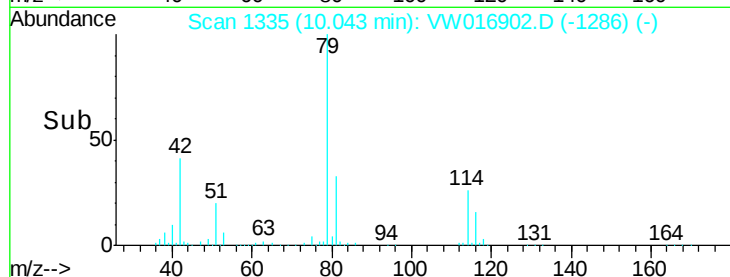
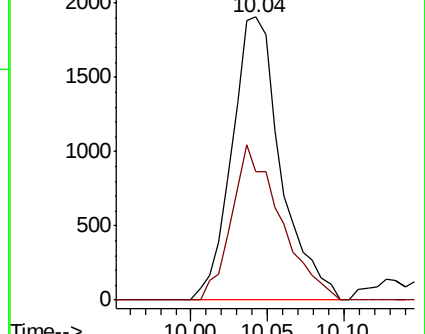
75 100

77 45.6 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#45

trans-1,3-Dichloropropene

Concen: 0.467 ug/L

RT: 10.59 min Scan# 1424

Delta R.T. -0.02 min

Lab File: VW016902.D

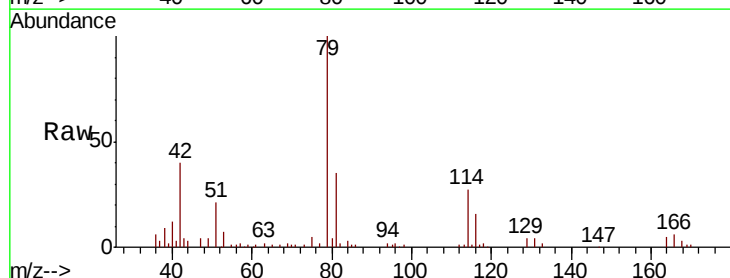
Acq: 14 Oct 2020 14:00

Tgt Ion: 75 Resp: 2249

Ion Ratio Lower Upper

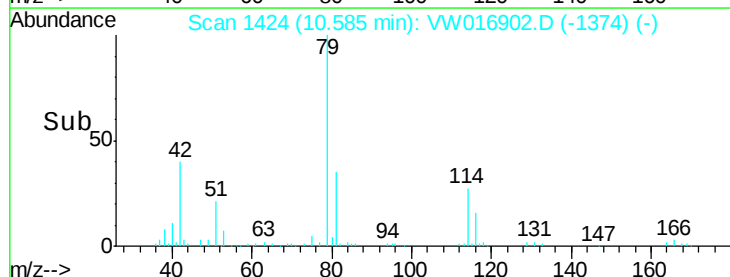
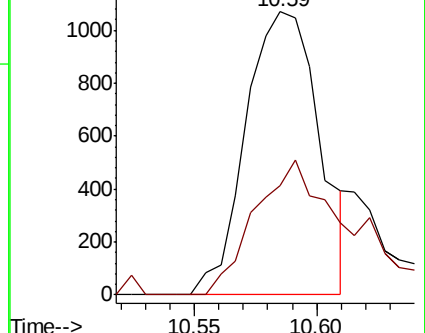
75 100

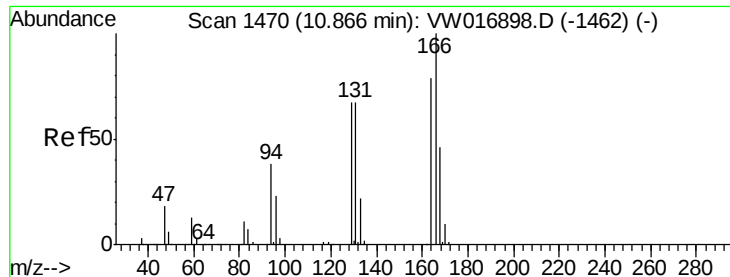
77 38.5 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

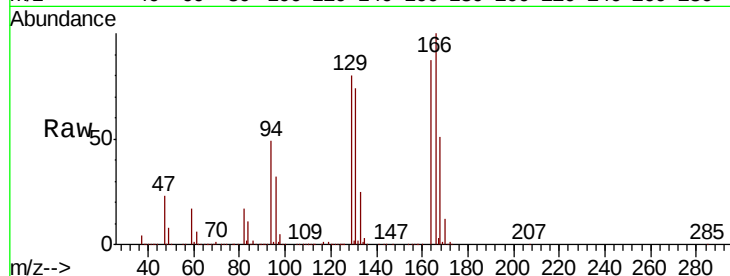




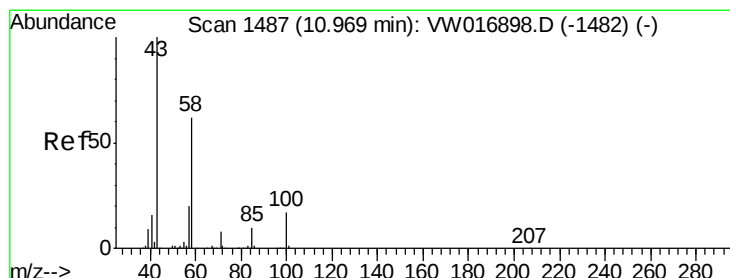
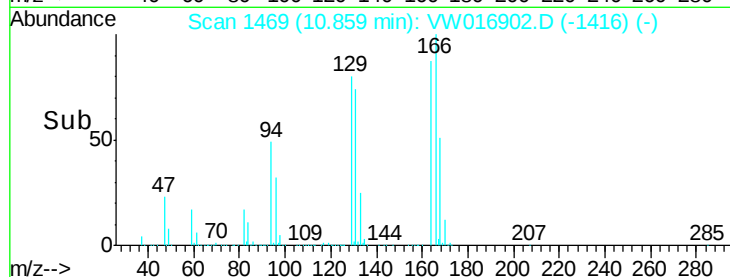
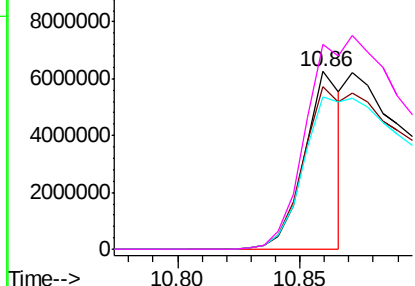
#47
Tetrachloroethene
Concen: 1560.234 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VW016902.D
Acq: 14 Oct 2020 14:00

Instrument :
MSVOA_W
ClientSampled :
BG3Y0

Tot Ion:164 Resp: 6491144
Ion Ratio Lower Upper
164 100
129 91.5 61.7 114.7
131 85.5 59.7 110.9
166 114.9 88.3 164.1



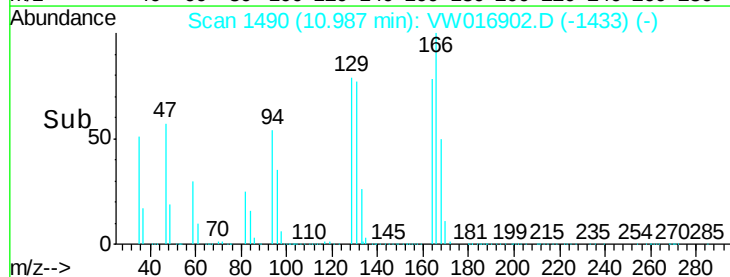
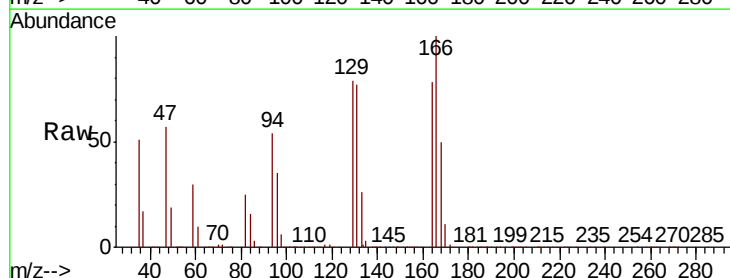
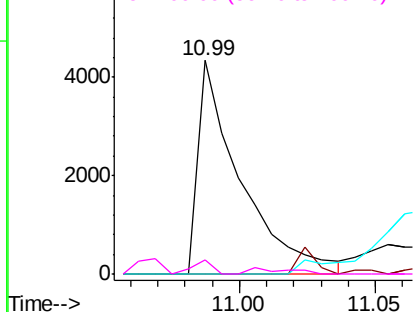
Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

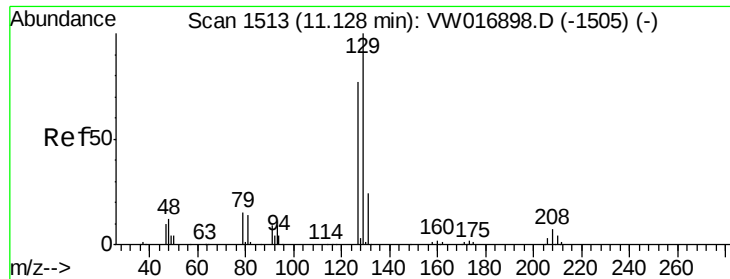


#49
2-Hexanone
Concen: 3.958 ug/L
RT: 10.99 min Scan# 1490
Delta R.T. 0.02 min
Lab File: VW016902.D
Acq: 14 Oct 2020 14:00

Tgt Ion: 43 Resp: 4718
Ion Ratio Lower Upper
43 100
58 0.0 47.1 70.7#
57 0.0 16.2 24.4#
100 3.0 13.3 19.9#

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





#50

Dibromochloromethane

Concen: 1.250 ug/L

RT: 11.14 min Scan# 1515

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

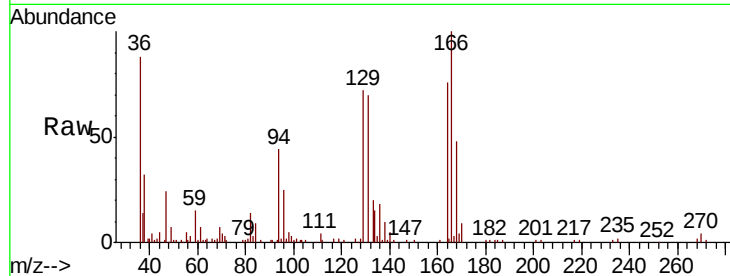
BG3Y0

Tot Ion:129 Resp: 4530

Ion Ratio Lower Upper

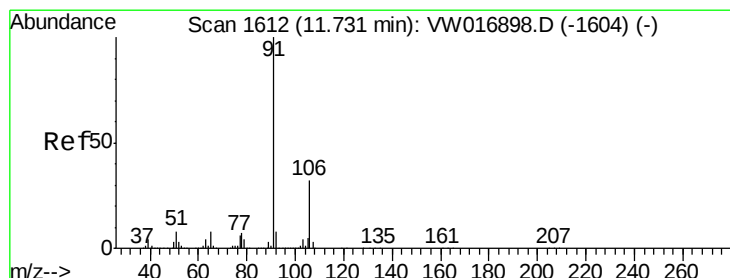
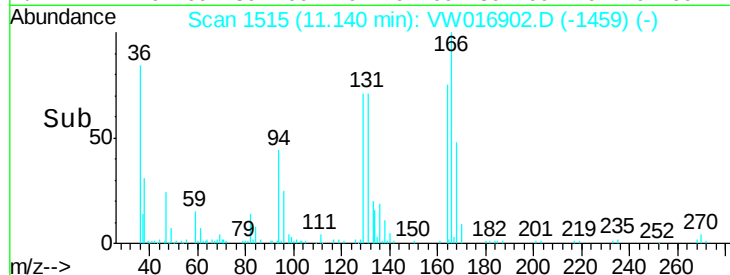
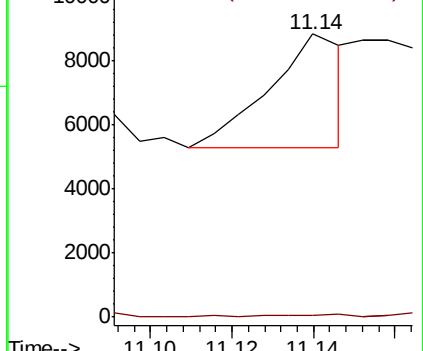
129 100

127 0.6 54.0 100.4#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#53

Ethylbenzene

Concen: 0.487 ug/L

RT: 11.74 min Scan# 1614

Delta R.T. 0.01 min

Lab File: VW016902.D

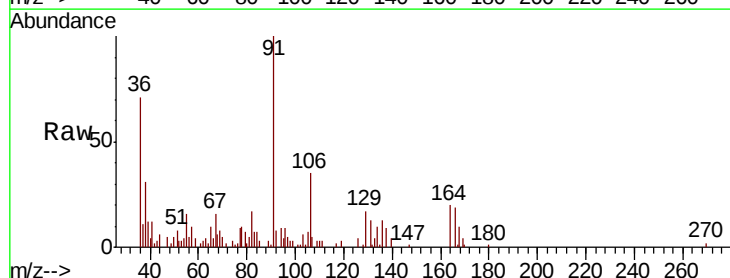
Acq: 14 Oct 2020 14:00

Tgt Ion: 91 Resp: 9621

Ion Ratio Lower Upper

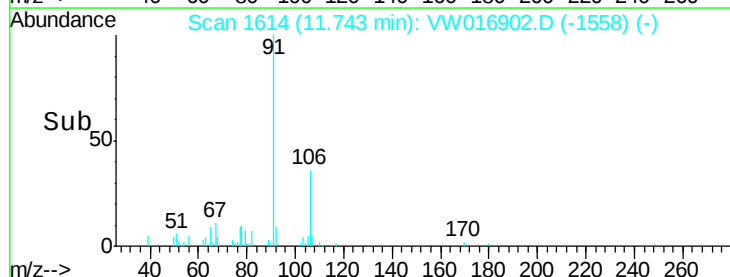
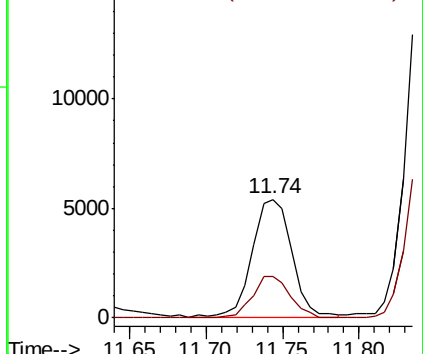
91 100

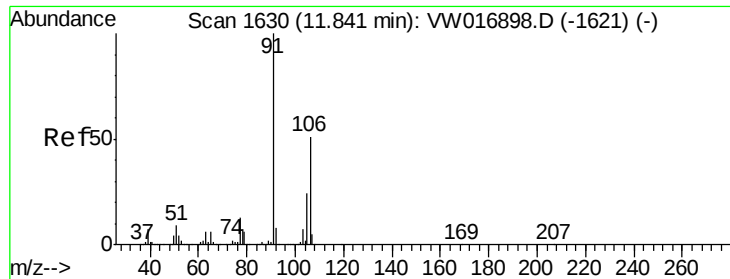
106 35.3 22.8 42.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 2.522 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Instrument :

MSVOA_W

ClientSampleId :

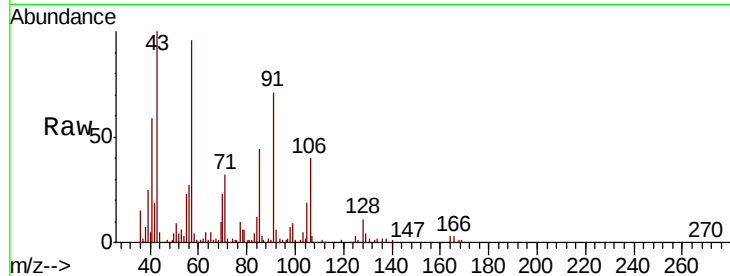
BG3Y0

Tot Ion:106 Resp: 19365

Ion Ratio Lower Upper

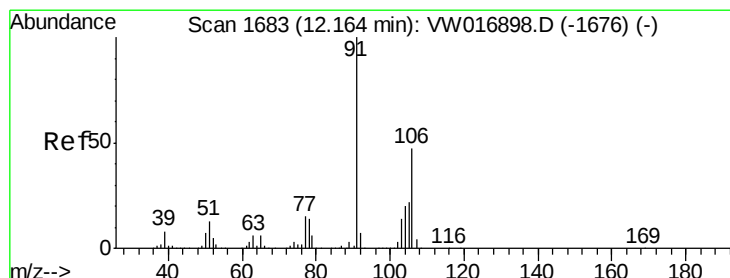
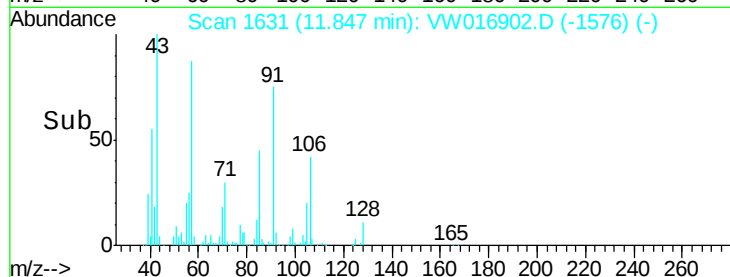
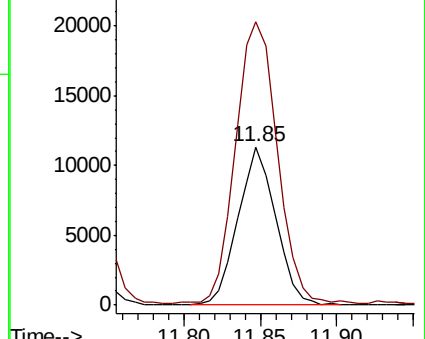
106 100

91 179.1 135.6 251.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 1.439 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VW016902.D

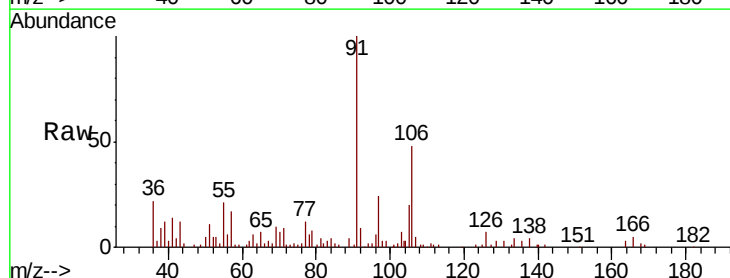
Acq: 14 Oct 2020 14:00

Tgt Ion:106 Resp: 10554

Ion Ratio Lower Upper

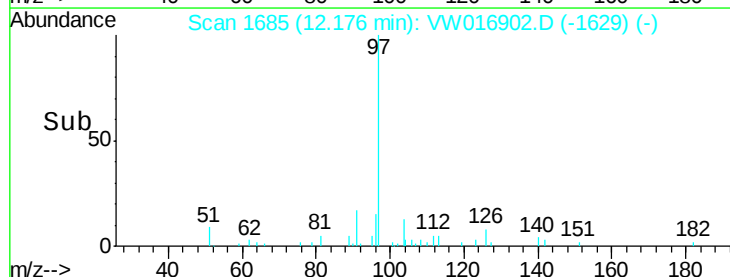
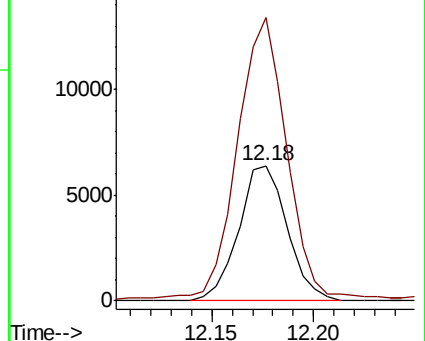
106 100

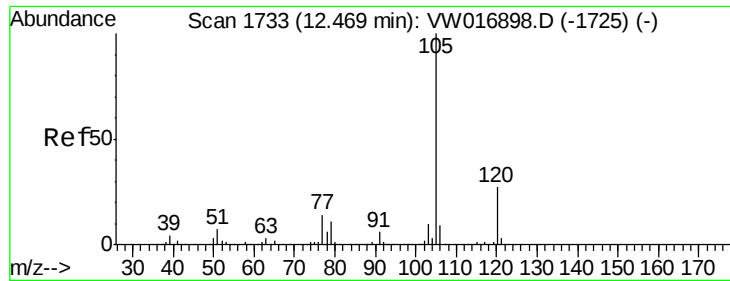
91 209.4 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 0.813 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

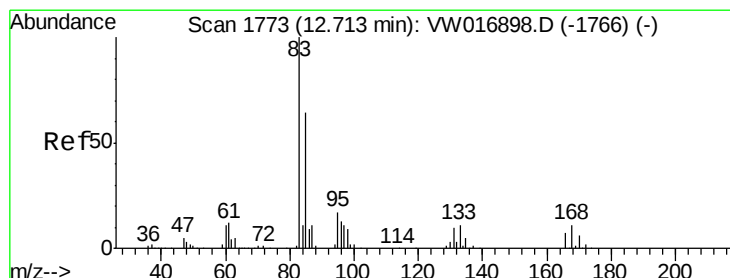
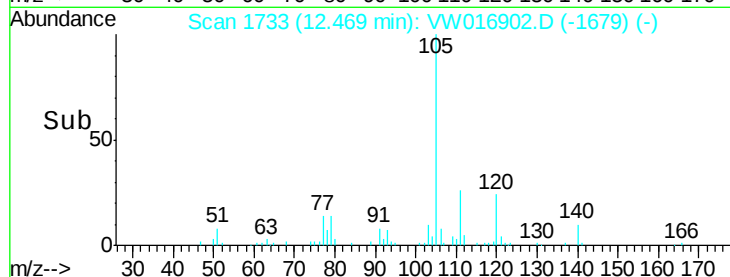
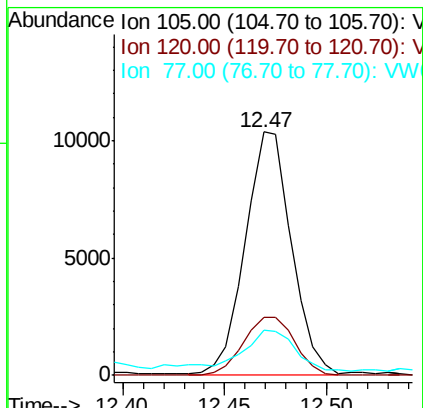
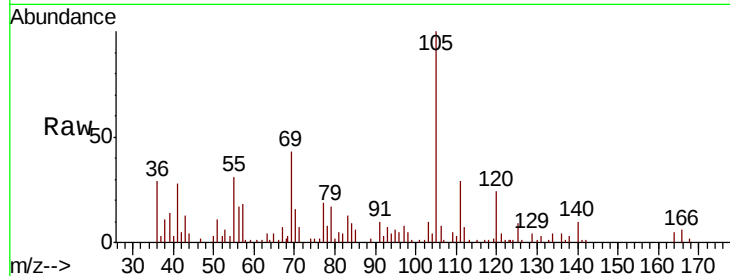
Instrument :

MSVOA_W

ClientSampled :

BG3Y0

Tot Ion:	105	Resp:	16329
Ion	Ratio	Lower	Upper
105	100		
120	26.5	21.5	32.3
77	17.5	11.4	17.2#



#58

1,1,2,2-Tetrachloroethane

Concen: 0.600 ug/L

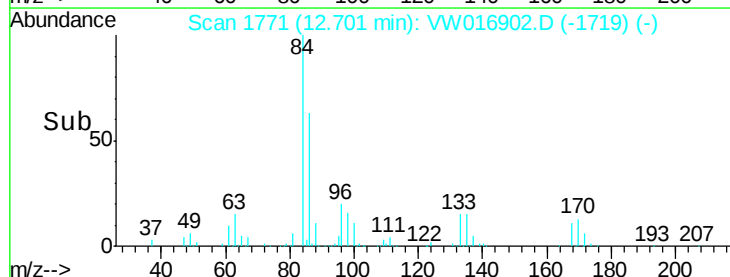
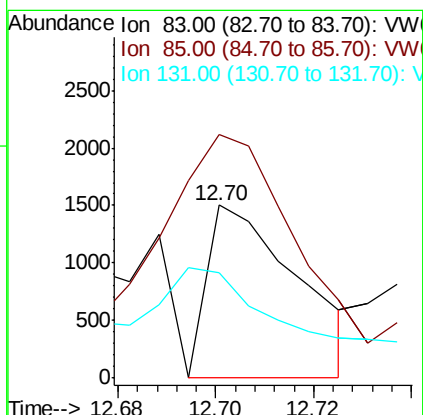
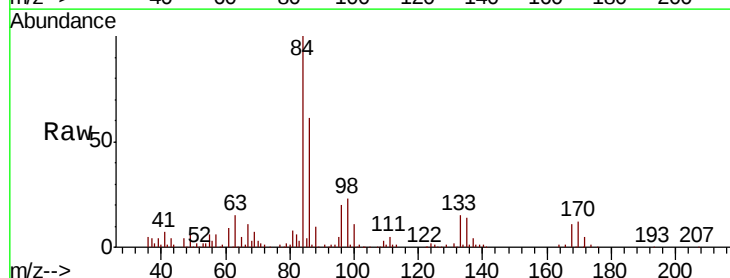
RT: 12.70 min Scan# 1771

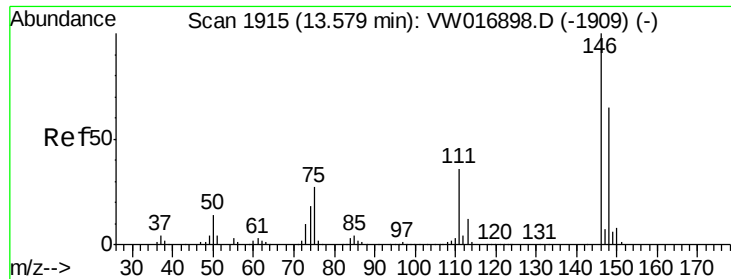
Delta R.T. -0.01 min

Lab File: VW016902.D

Acq: 14 Oct 2020 14:00

Tgt Ion:	83	Resp:	1933
Ion	Ratio	Lower	Upper
83	100		
85	140.9	43.3	80.5#
131	60.9	9.0	13.4#

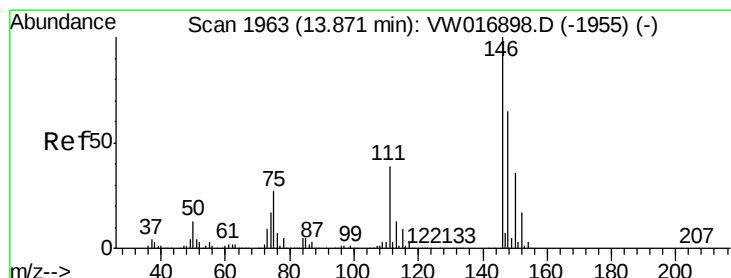
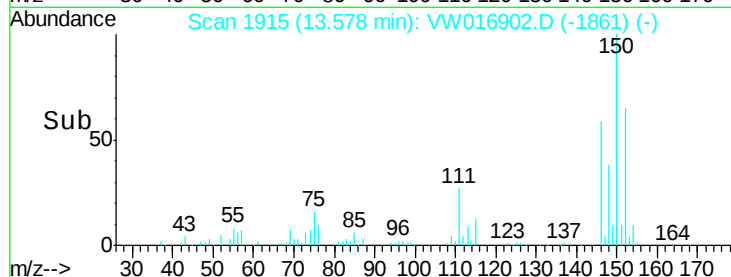
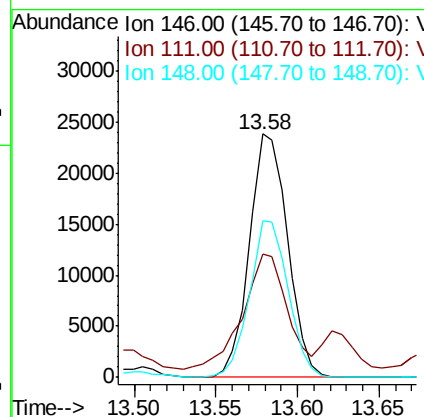
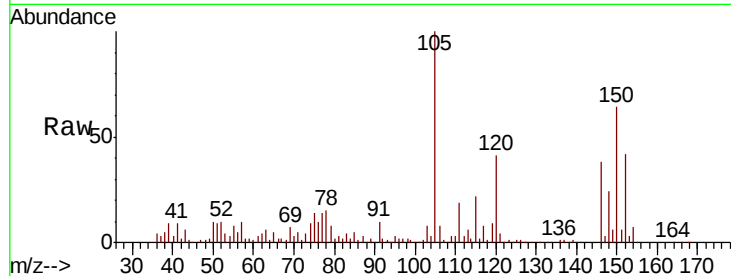




#64
 1,4-Dichlorobenzene
 Concen: 4.840 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW016902.D
 Acq: 14 Oct 2020 14:00

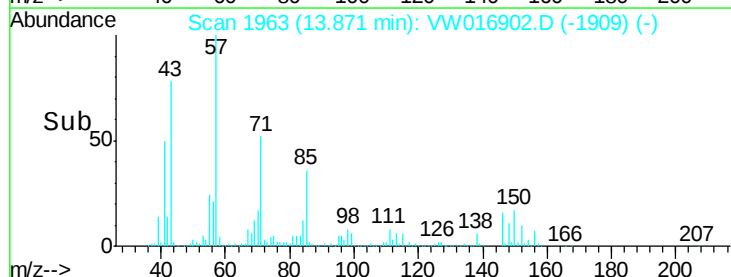
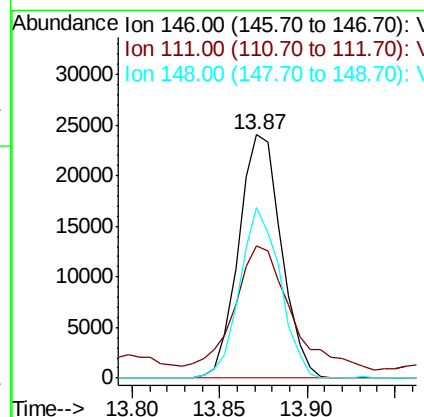
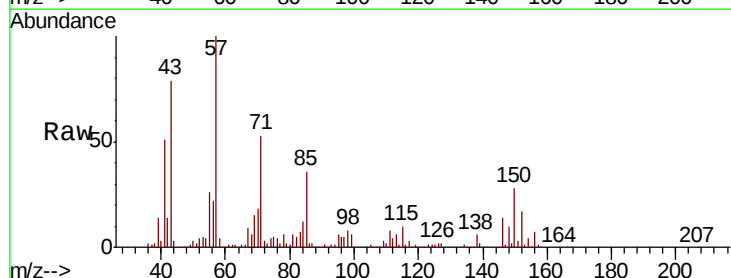
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y0

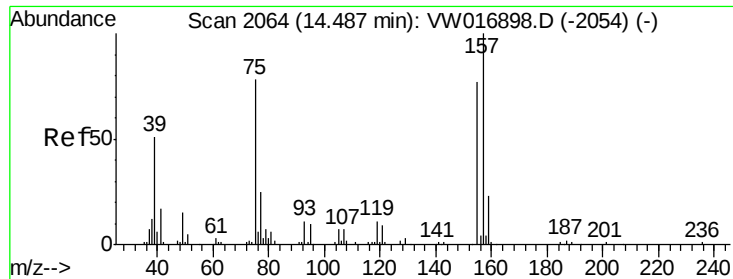
Tot Ion:146 Resp: 39003
 Ion Ratio Lower Upper
 146 100
 111 50.9 26.0 48.4#
 148 64.2 43.9 81.5



#65
 1,2-Dichlorobenzene
 Concen: 5.667 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW016902.D
 Acq: 14 Oct 2020 14:00

Tgt Ion:146 Resp: 40879
 Ion Ratio Lower Upper
 146 100
 111 54.3 32.1 48.1#
 148 70.1 51.8 77.6

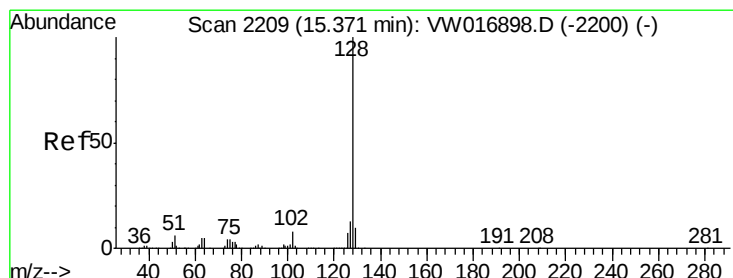
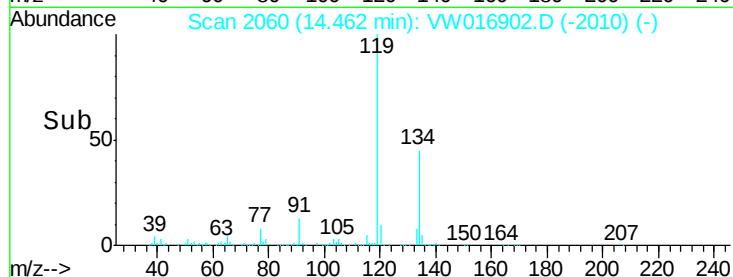
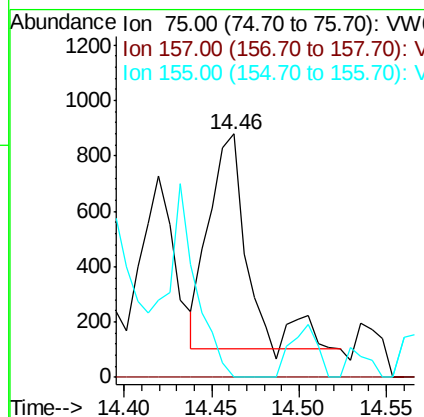
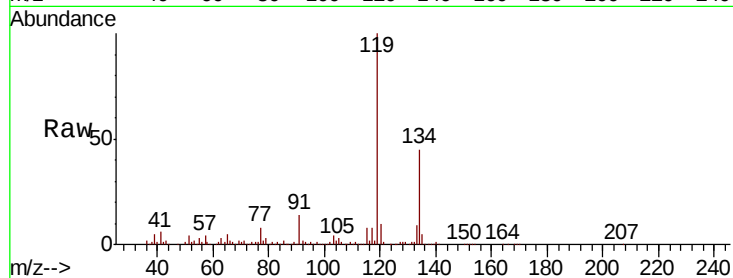




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.722 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW016902.D
 Acq: 14 Oct 2020 14:00

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y0

Tot Ion: 75 Resp: 1191
 Ion Ratio Lower Upper
 75 100
 157 0.0 100.5 150.7#
 155 0.0 74.7 112.1#



#69
 Naphthalene
 Concen: 6.480 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.00 min
 Lab File: VW016902.D
 Acq: 14 Oct 2020 14:00

Tgt Ion: 128 Resp: 52786
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.7 13.1
 127 14.9 10.1 15.1

