

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102820\
 Data File : VW017006.D
 Acq On : 28 Oct 2020 12:12
 Operator : SY/VA
 Sample : L4502-18
 Misc : 6.20G/10ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 29 08:08:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM102220S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 08:01:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	124276	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	101866	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	30174	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	38777	27.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	108.16%
7) Chloroethane-d5	2.90	69	31835	28.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	114.60%
10) 1,1-Dichloroethene-d2	4.02	63	57216	20.51	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	82.04%
20) 2-Butanone-d5	7.09	46	11365	42.06	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.12%
24) Chloroform-d	7.65	84	76889	26.82	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.28%
26) 1,2-Dichloroethane-d4	8.31	65	34934	25.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.56%
29) Benzene-d6	8.27	84	155551	29.73	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	118.92%
33) 1,2-Dichloropropane-d6	9.28	67	43866	31.06	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	124.24%#
37) Toluene-d8	10.33	98	139500	28.32	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	113.28%
38) trans-1,3-Dichloropropene-	10.58	79	14659	24.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.80%
39) 2-Hexanone-d5	10.93	63	9270	46.74	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.48%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	24560	22.83	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.32%
61) 1,2-Dichlorobenzene-d4	13.86	152	29474	27.79	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	111.16%

Target Compounds

					Ovalue
5) Vinyl chloride	2.37	62	451	0.252 ug/L #	1
12) 1,1-Dichloroethene	4.04	96	3668	2.255 ug/L #	1
13) Acetone	4.13	43	2447	13.459 ug/L	76
14) Carbon disulfide	4.39	76	5477	1.111 ug/L	98
16) Methylene chloride	4.92	84	3963	2.412 ug/L	86
22) cis-1,2-Dichloroethene	7.17	96	2994	1.741 ug/L	76
34) Benzene	8.32	78	20428	3.630 ug/L	100
35) Trichloroethene	9.09	95	468664	300.708 ug/L	99
40) 1,2-Dichloropropane	9.28	63	4587	3.650 ug/L #	83
42) cis-1,3-Dichloropropene	10.04	75	1098	0.559 ug/L #	74
43) 4-Methyl-2-pentanone	10.22	43	874	1.467 ug/L #	63
45) trans-1,3-Dichloropropene	10.59	75	608	0.373 ug/L #	76
46) 1,1,2-Trichloroethane	10.86	97	143861	143.013 ug/L #	17
47) Tetrachloroethene	10.86	164	6510180	4540.986 ug/L	93
50) Dibromochloromethane	11.15	129	426	0.348 ug/L #	10
54) m,p-Xylene	11.84	106	1042	0.387 ug/L	74
64) 1,4-Dichlorobenzene	13.58	146	1634	0.842 ug/L	82

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Quant Time: Oct 29 08:08:28 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM102220S.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 29 08:01:00 2020
Response via : Initial Calibration

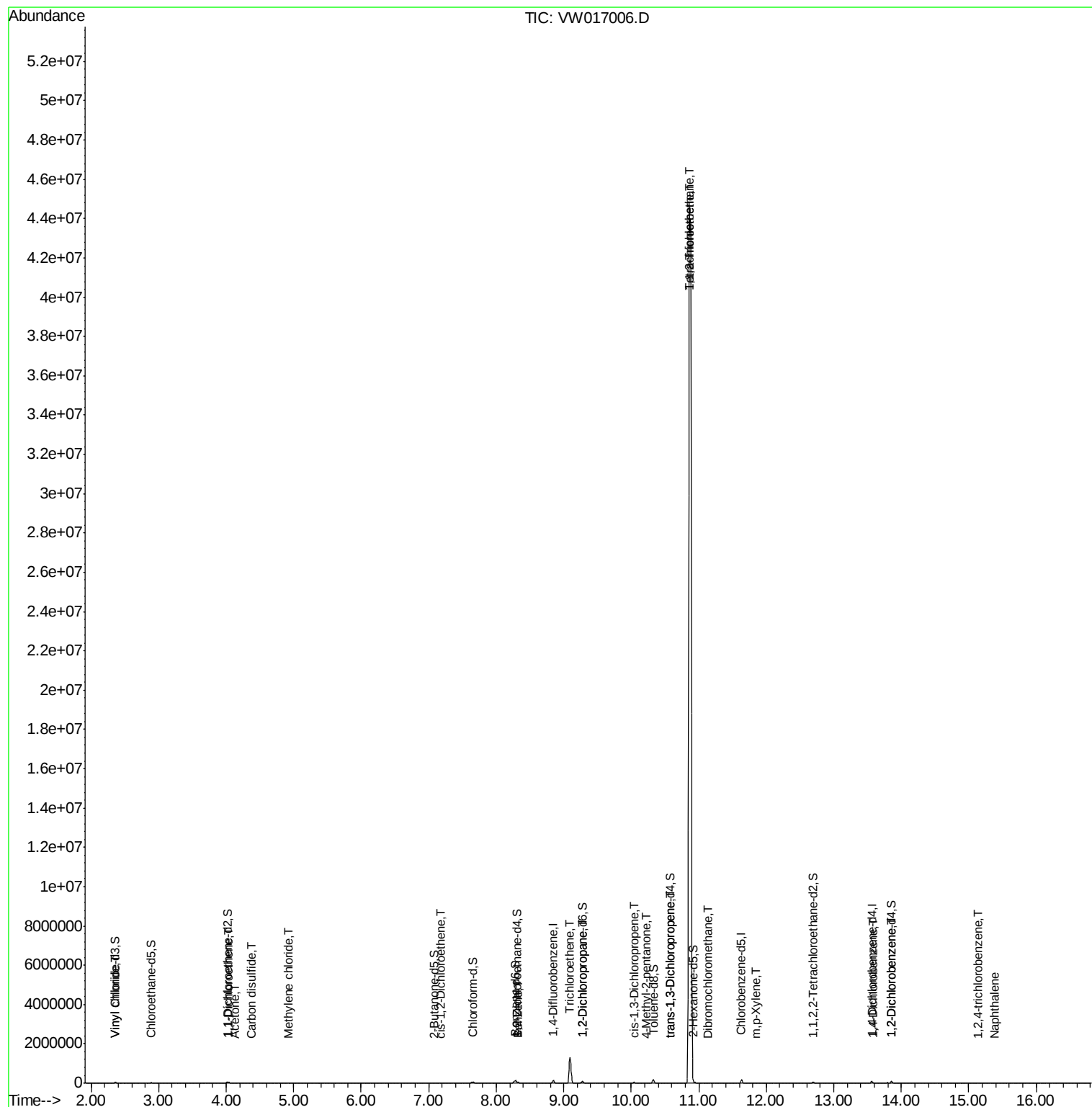
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	13.87	146	1813	1.056	ug/L #	76
68) 1,2,4-trichlorobenzene	15.13	180	285	0.258	ug/L #	60
69) Naphthalene	15.38	128	829	0.463	ug/L #	94

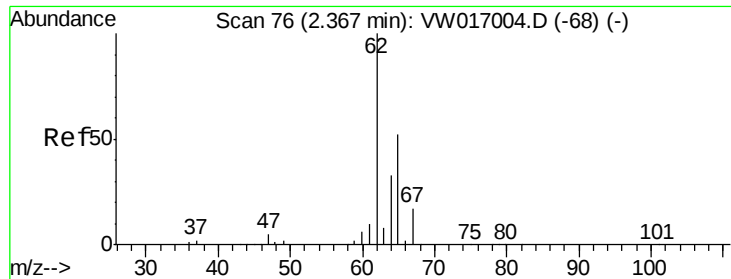
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Oct 29 08:08:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM102220S.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 29 08:01:00 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.252 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

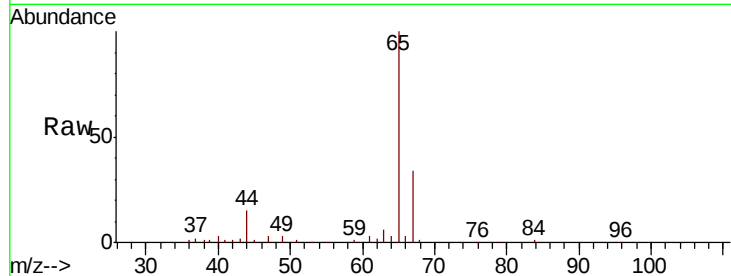
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 62 Resp: 451

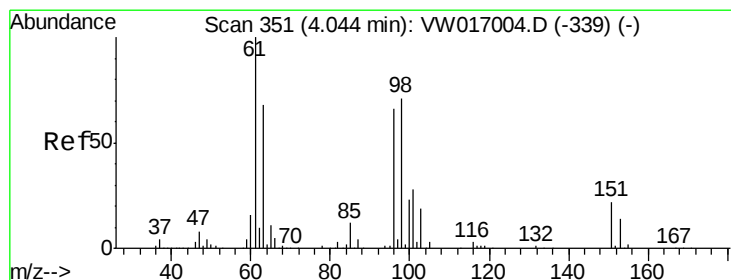
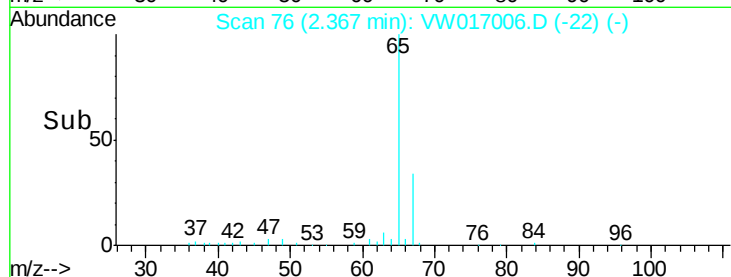
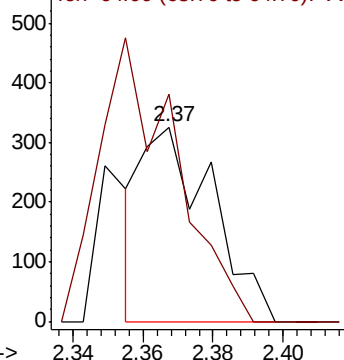
Ion Ratio Lower Upper

62 100

64 117.2 24.1 44.7#



Abundance Ion 62.00 (61.70 to 62.70): VW
Ion 64.00 (63.70 to 64.70): VW



#12

1,1-Dichloroethene

Concen: 2.255 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

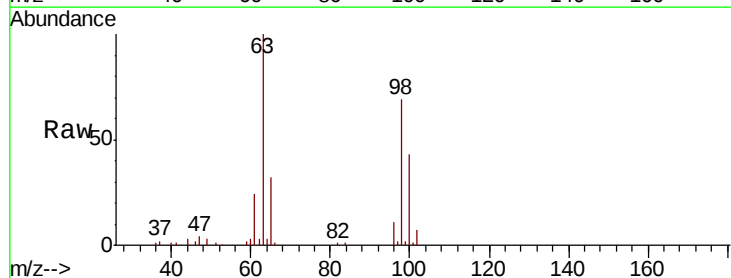
Tgt Ion: 96 Resp: 3668

Ion Ratio Lower Upper

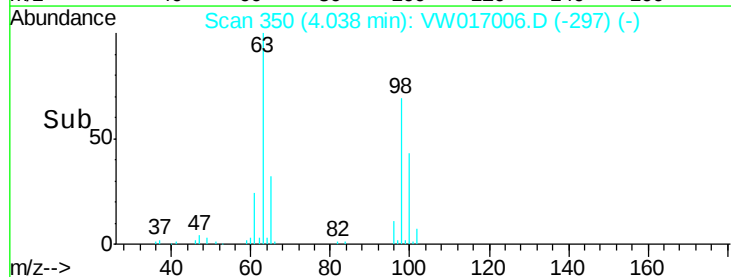
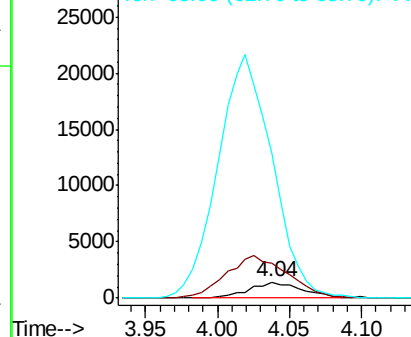
96 100

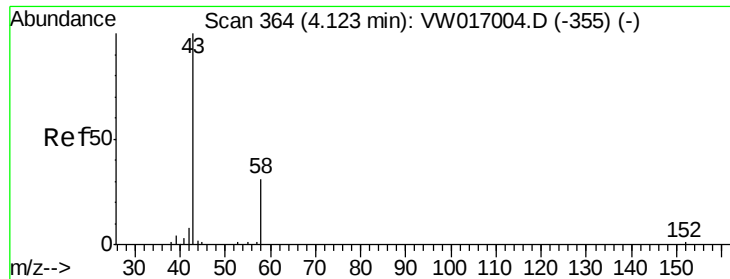
61 220.6 101.4 188.4#

63 911.1 78.5 145.9#



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 13.459 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

Instrument :

MSVOA_W

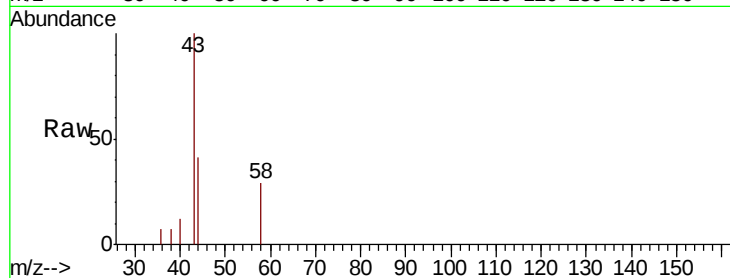
ClientSampleId :

Tot Ion: 43 Resp: 2447

Ion Ratio Lower Upper

43 100

58 20.9 0.0 69.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

800

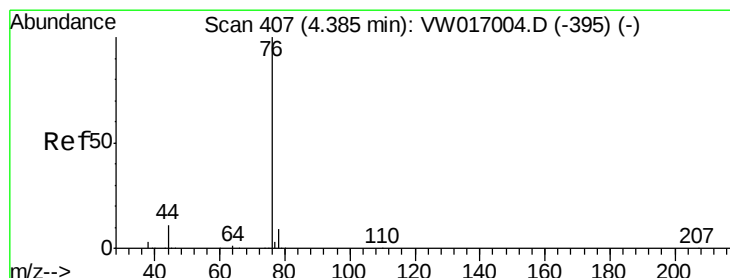
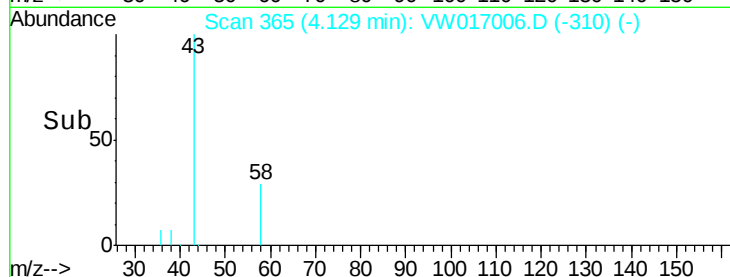
600

400

200

0

Time-->



#14

Carbon disulfide

Concen: 1.111 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW017006.D

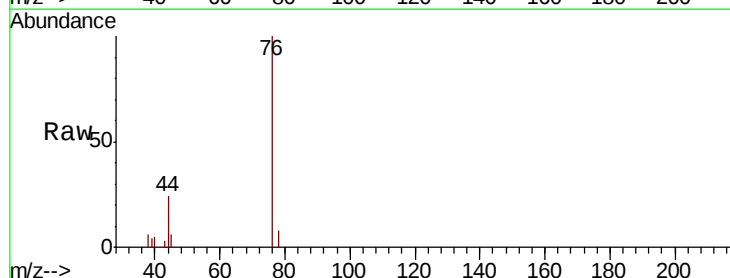
Acq: 28 Oct 2020 12:12

Tgt Ion: 76 Resp: 5477

Ion Ratio Lower Upper

76 100

78 8.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

2000

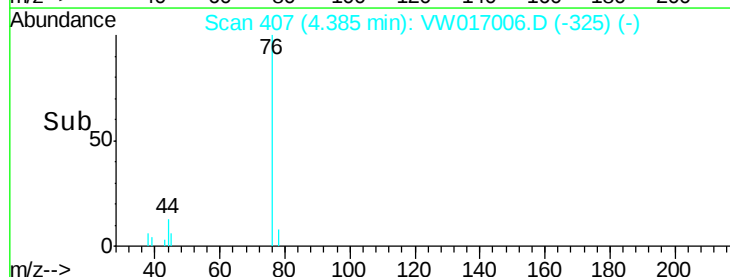
1500

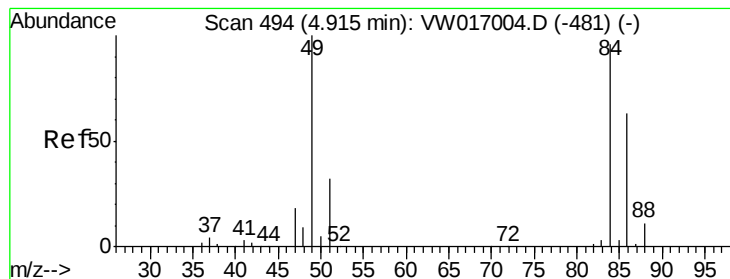
1000

500

0

Time-->





#16

Methylene chloride

Concen: 2.412 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

Instrument :

MSVOA_W

ClientSampleId :

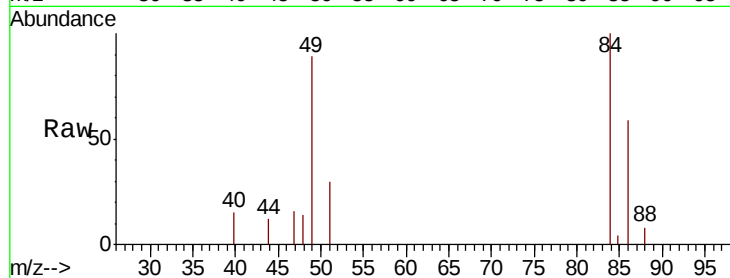
Tot Ion: 84 Resp: 3963

Ion Ratio Lower Upper

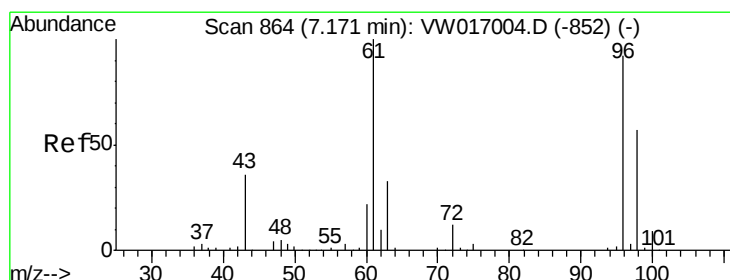
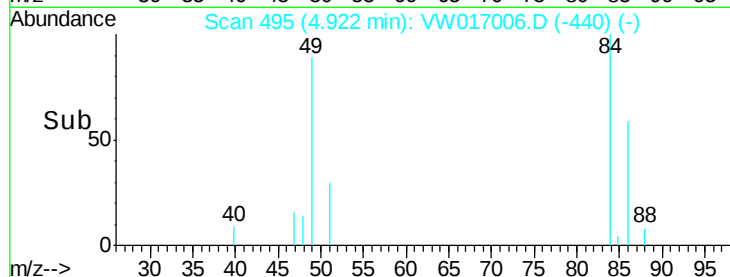
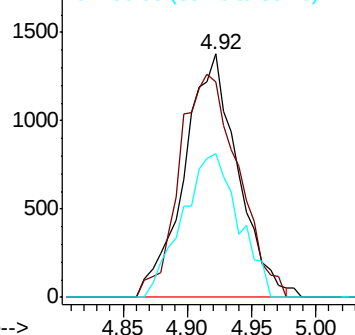
84 100

49 88.7 73.8 137.0

86 59.0 47.4 88.0



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



#22

cis-1,2-Dichloroethene

Concen: 1.741 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

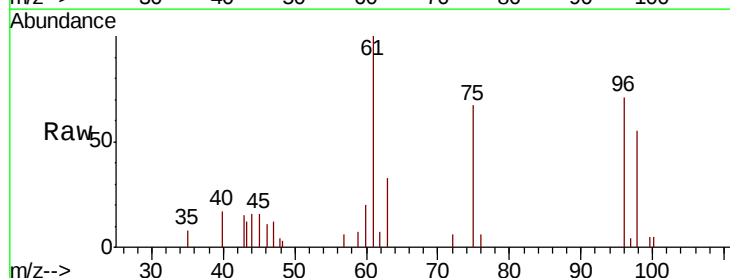
Tgt Ion: 96 Resp: 2994

Ion Ratio Lower Upper

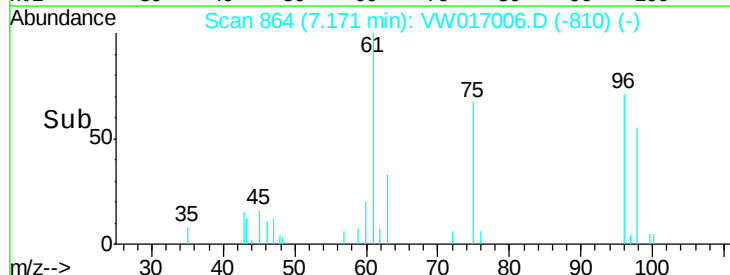
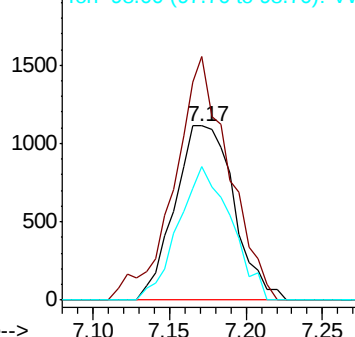
96 100

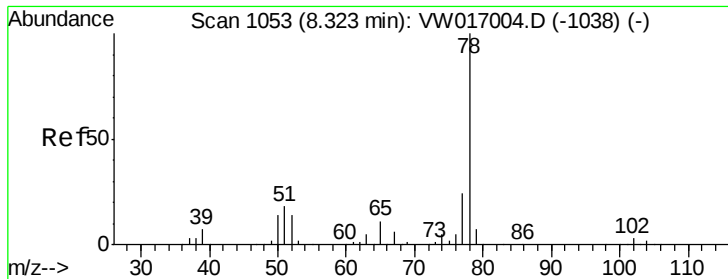
61 139.9 77.4 143.8

98 76.5 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW





#34

Benzene

Concen: 3.630 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW017006.D

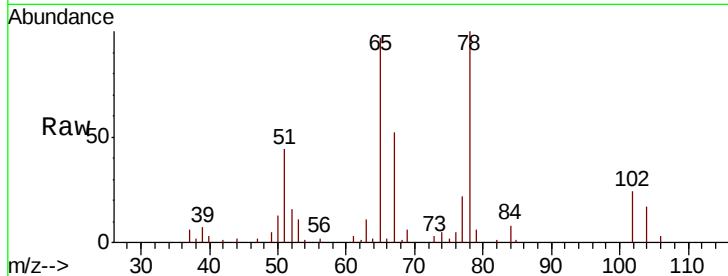
Acq: 28 Oct 2020 12:12

Instrument :

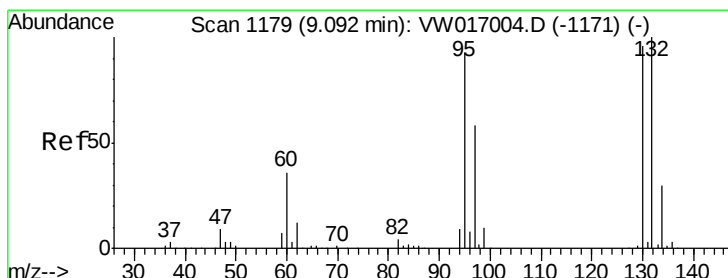
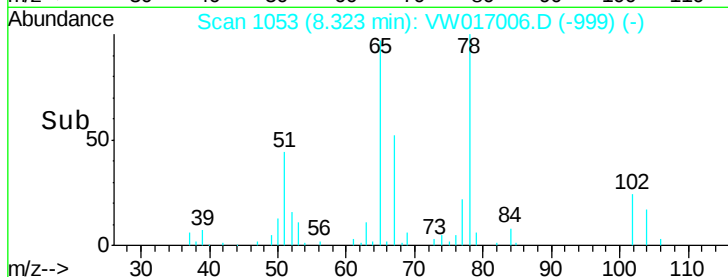
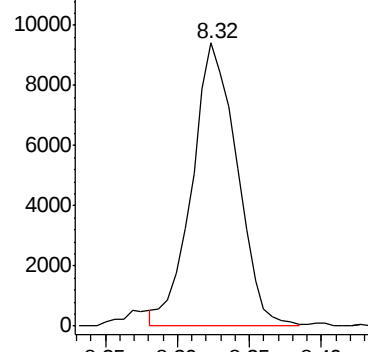
MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 20428



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 300.708 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

Tgt Ion: 95 Resp: 468664

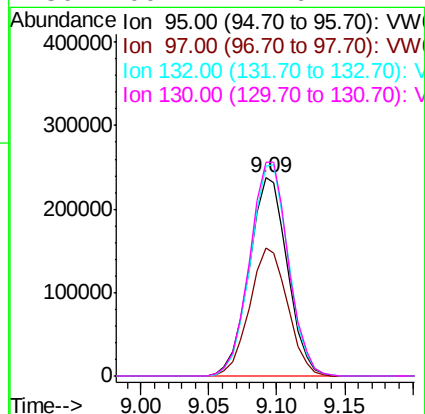
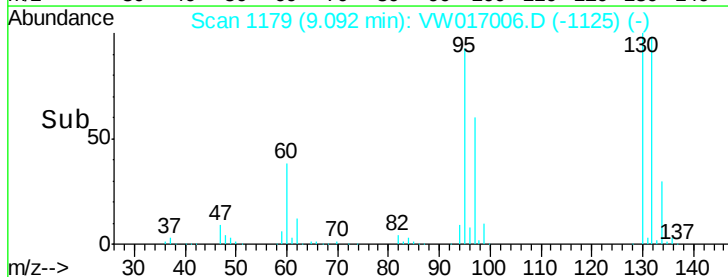
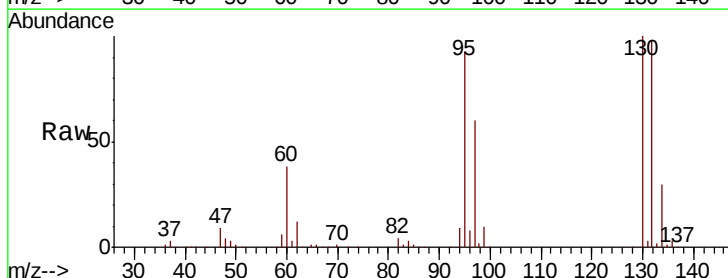
Ion	Ratio	Lower	Upper
95	100		
97	64.2	46.0	85.4
132	106.2	73.9	137.3
130	109.4	77.6	144.2

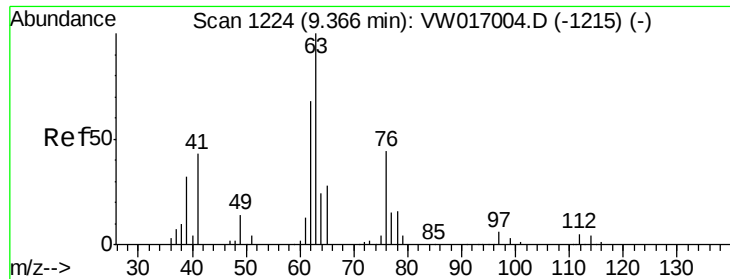
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

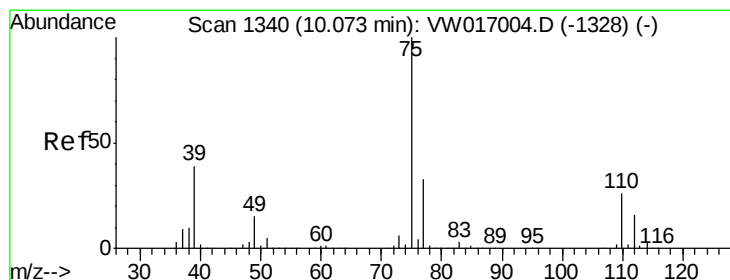
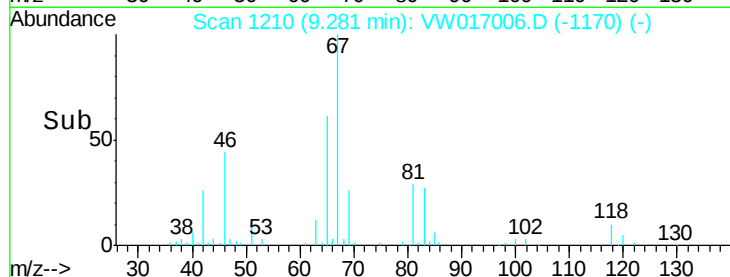
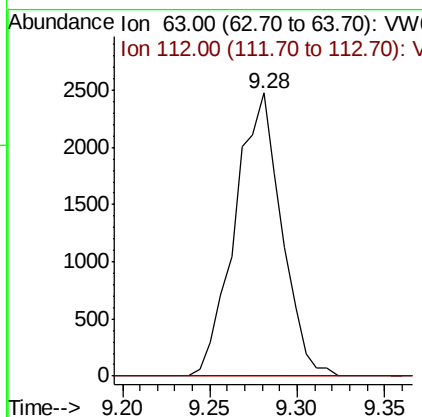
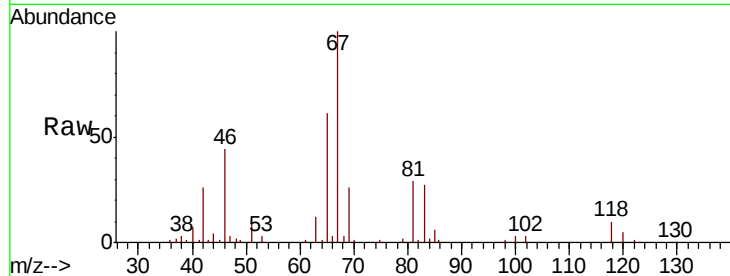




#40
 1,2-Dichloropropane
 Concen: 3.650 ug/L
 RT: 9.28 min Scan# 1210
 Delta R.T. -0.09 min
 Lab File: VW017006.D
 Acq: 28 Oct 2020 12:12

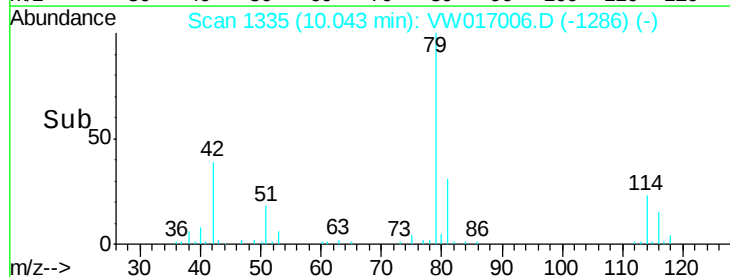
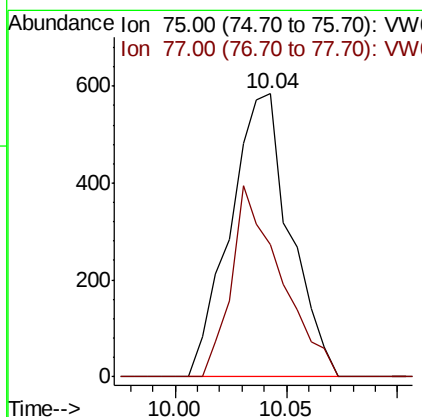
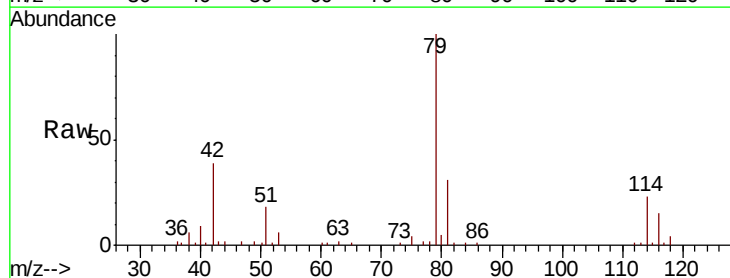
Instrument :
 MSVOA_W
 ClientSampled :

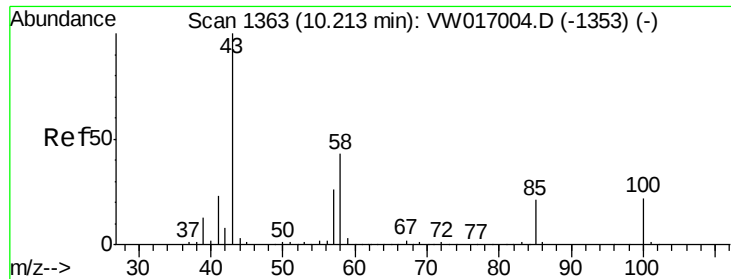
Tot Ion: 63 Resp: 4587
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.5 6.7#



#42
 cis-1,3-Dichloropropene
 Concen: 0.559 ug/L
 RT: 10.04 min Scan# 1335
 Delta R.T. -0.03 min
 Lab File: VW017006.D
 Acq: 28 Oct 2020 12:12

Tgt Ion: 75 Resp: 1098
 Ion Ratio Lower Upper
 75 100
 77 46.9 22.7 42.1#

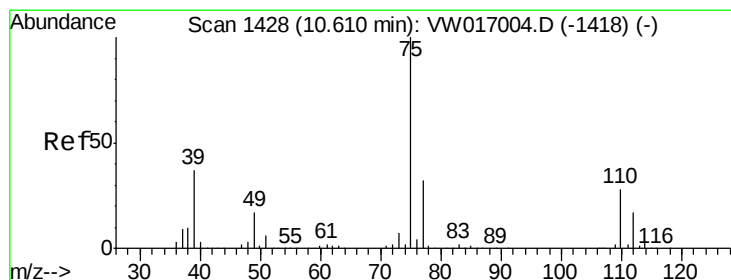
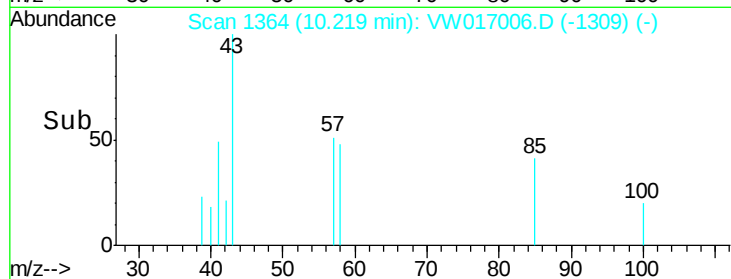
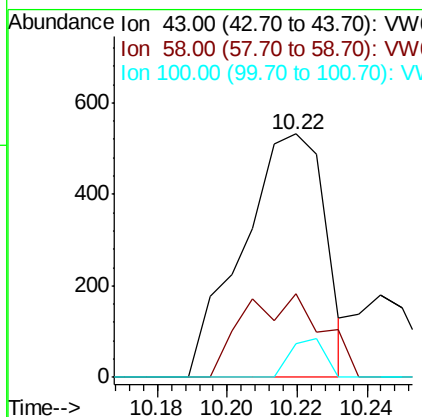
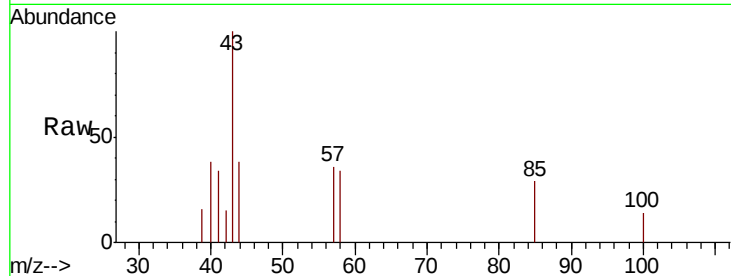




#43
4-Methyl-2-pentanone
Concen: 1.467 ug/L
RT: 10.22 min Scan# 1364
Delta R.T. 0.01 min
Lab File: VW017006.D
Acq: 28 Oct 2020 12:12

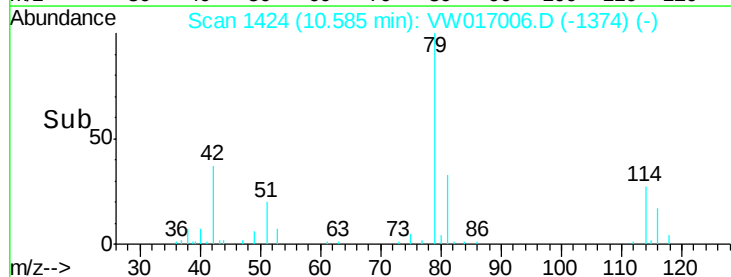
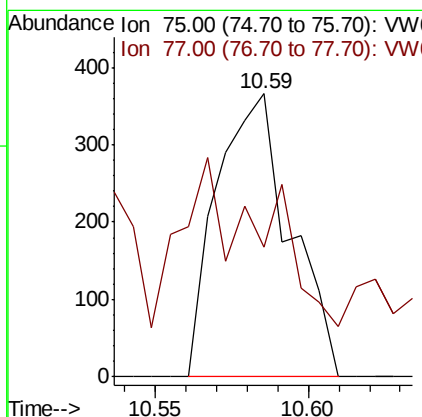
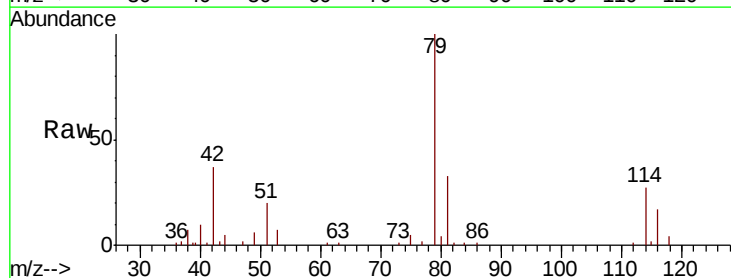
Instrument :
MSVOA_W
ClientSampled :

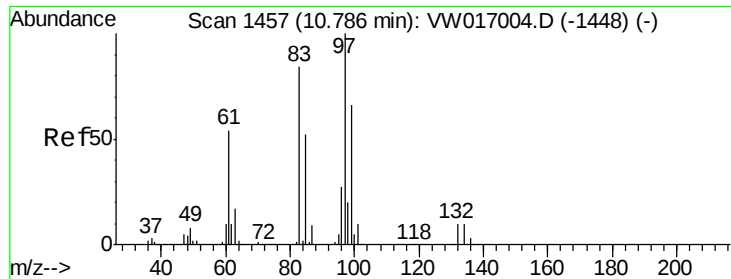
Tot Ion: 43 Resp: 874
Ion Ratio Lower Upper
43 100
58 16.7 34.4 51.6#
100 6.8 16.2 24.2#



#45
trans-1,3-Dichloropropene
Concen: 0.373 ug/L
RT: 10.59 min Scan# 1424
Delta R.T. -0.02 min
Lab File: VW017006.D
Acq: 28 Oct 2020 12:12

Tgt Ion: 75 Resp: 608
Ion Ratio Lower Upper
75 100
77 45.9 22.7 42.3#

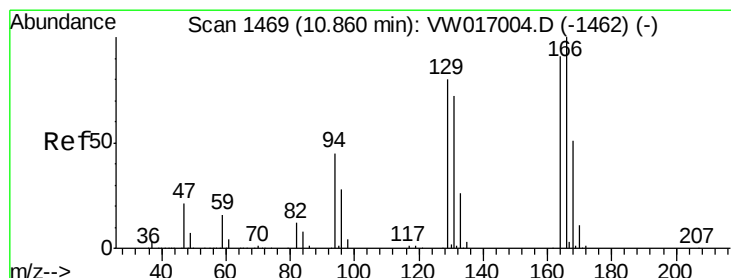
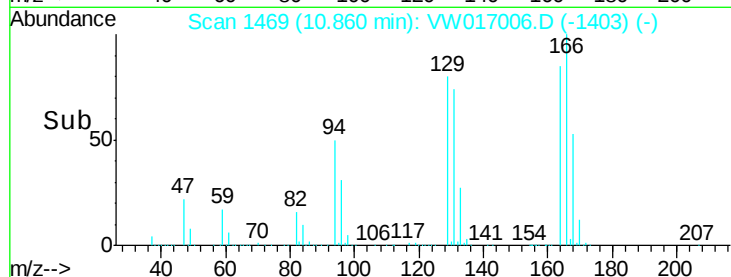
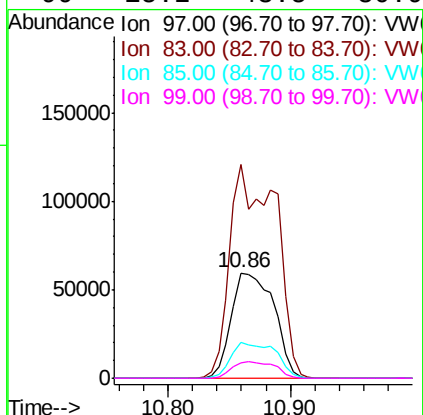
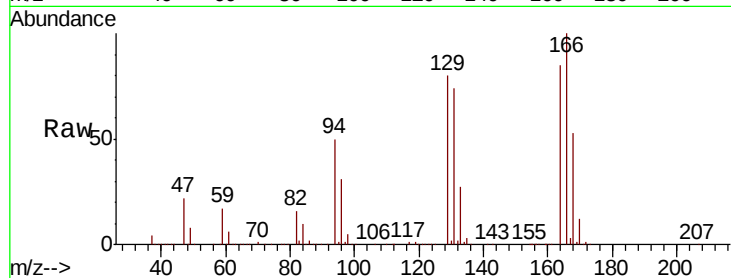




#46
1,1,2-Trichloroethane
Concen: 143.013 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.07 min
Lab File: VW017006.D
Acq: 28 Oct 2020 12:12

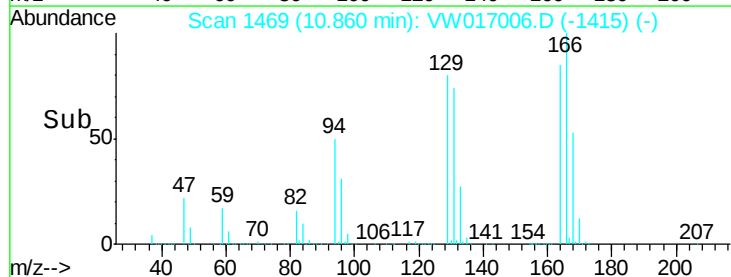
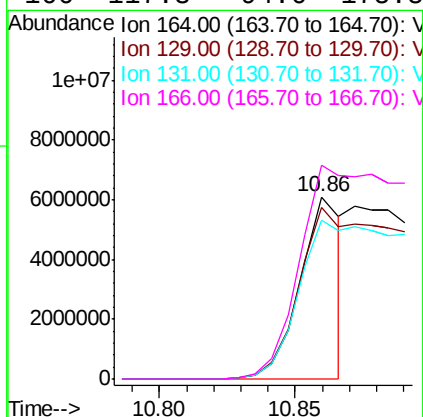
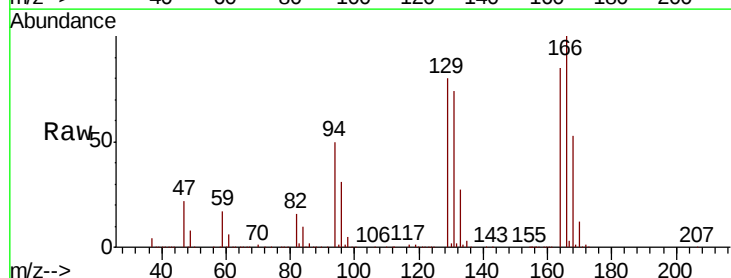
Instrument :
MSVOA_W
ClientSampleId :

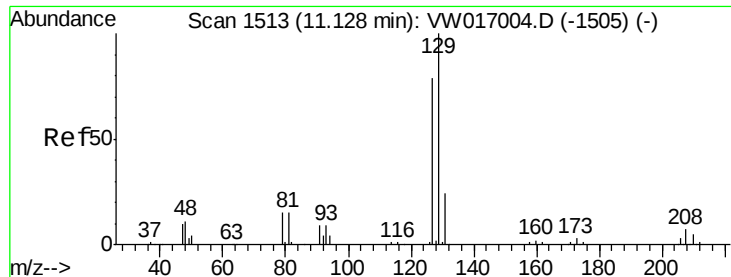
Tot Ion	Ratio	Lower	Upper
97	100		
83	203.0	56.6	105.0#
85	34.5	34.6	64.3#
99	15.2	43.5	80.9#



#47
Tetrachloroethene
Concen: 4540.986 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW017006.D
Acq: 28 Oct 2020 12:12

Tgt Ion	Ratio	Lower	Upper
164	100		
129	94.0	64.0	119.0
131	87.4	61.7	114.5
166	117.3	94.6	175.8





#50

Dibromochloromethane

Concen: 0.348 ug/L

RT: 11.15 min Scan# 1516

Delta R.T. 0.02 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

Instrument :

MSVOA_W

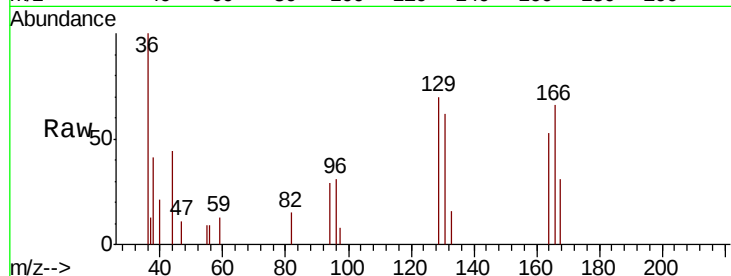
ClientSampled :

Tot Ion:129 Resp: 426

Ion Ratio Lower Upper

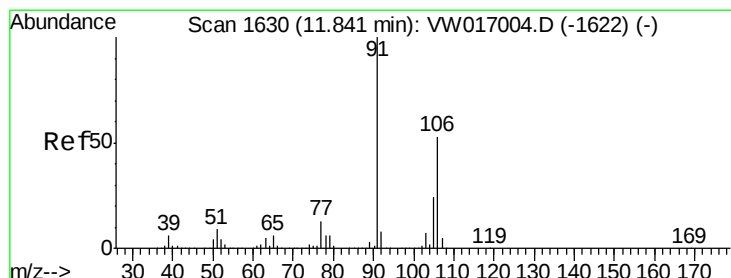
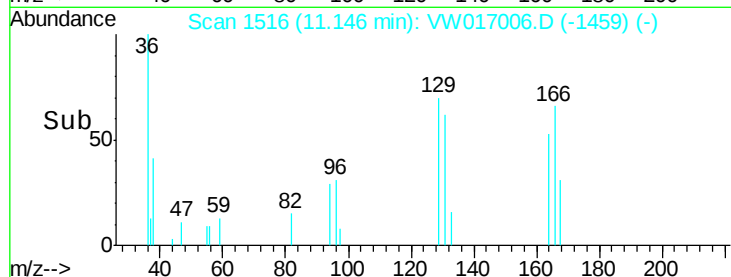
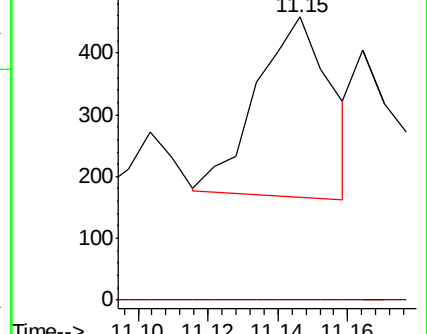
129 100

127 0.0 55.4 102.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

m,p-Xylene

Concen: 0.387 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW017006.D

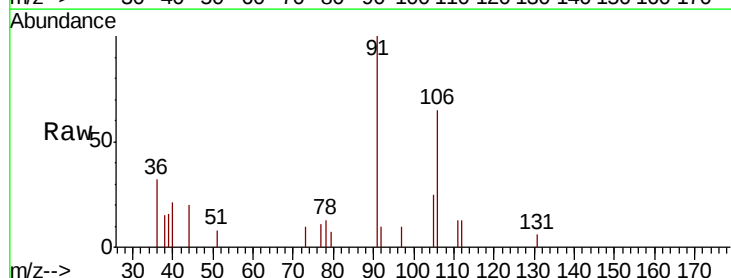
Acq: 28 Oct 2020 12:12

Tgt Ion:106 Resp: 1042

Ion Ratio Lower Upper

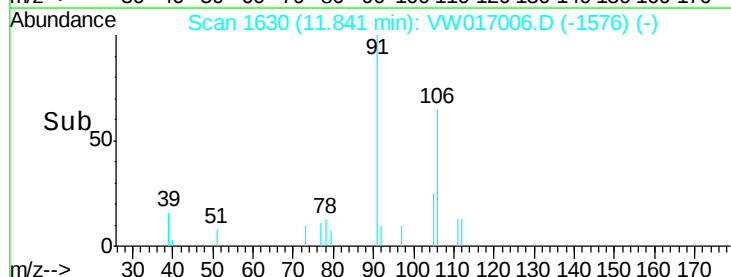
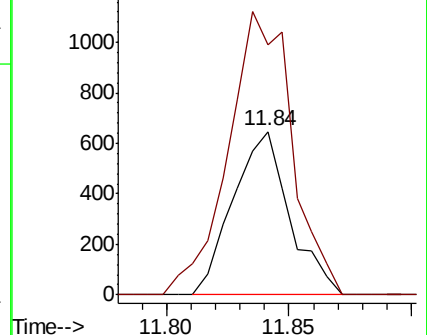
106 100

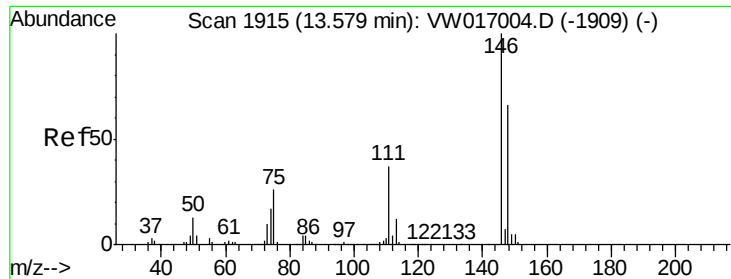
91 152.9 134.2 249.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#64

1,4-Dichlorobenzene

Concen: 0.842 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

Instrument :

MSVOA_W

ClientSampleId :

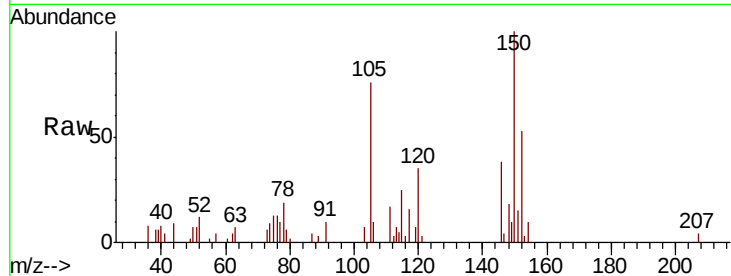
Tot Ion:146 Resp: 1634

Ion Ratio Lower Upper

146 100

111 45.3 25.7 47.7

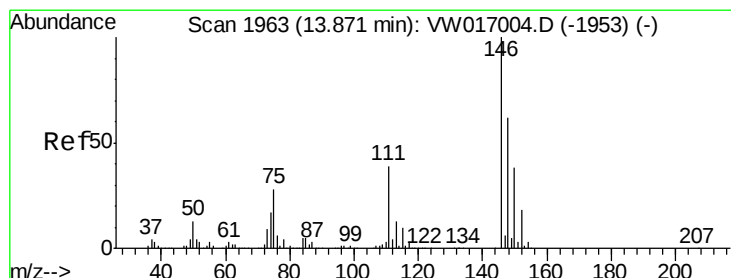
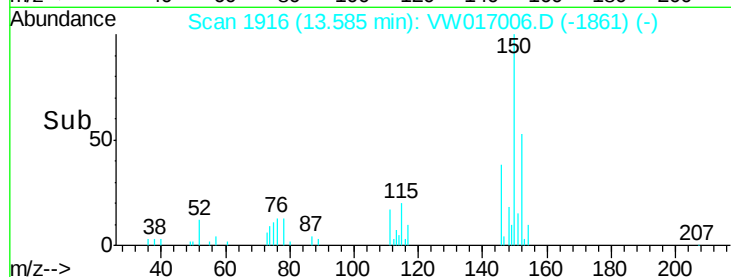
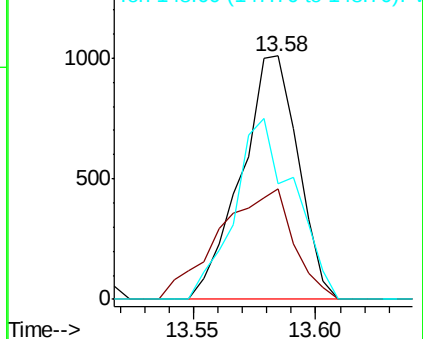
148 47.6 44.3 82.3



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: 1.056 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW017006.D

Acq: 28 Oct 2020 12:12

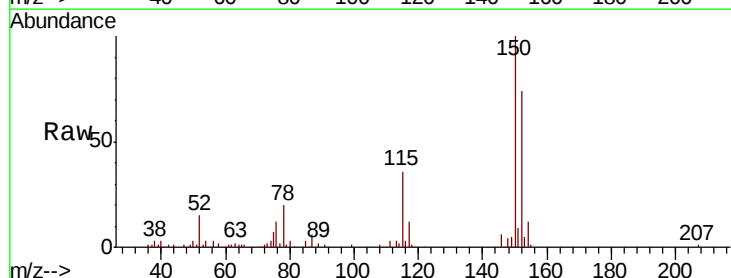
Tgt Ion:146 Resp: 1813

Ion Ratio Lower Upper

146 100

111 62.5 31.4 47.0#

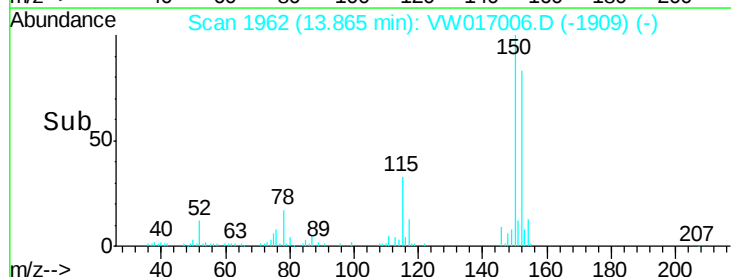
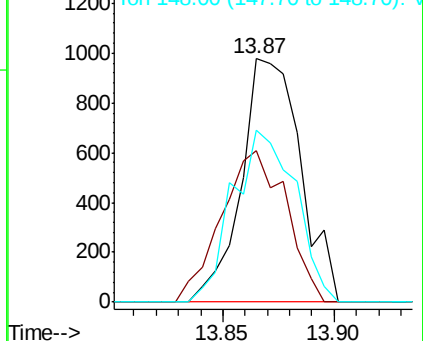
148 70.9 47.7 71.5

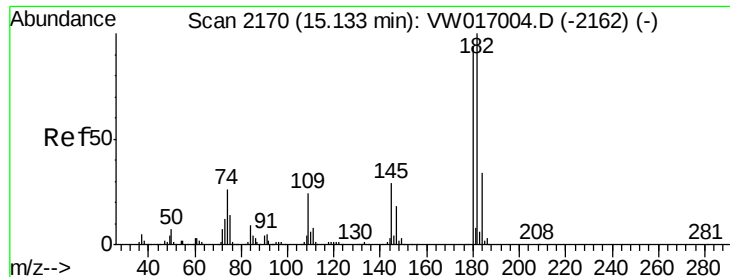


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

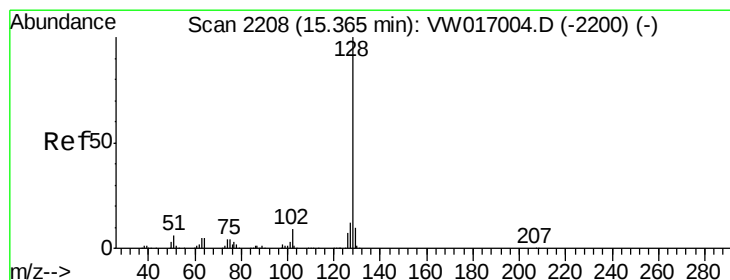
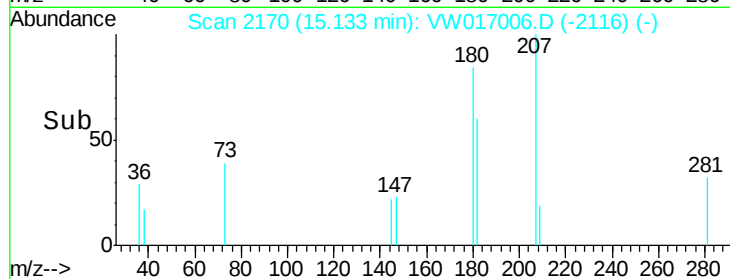
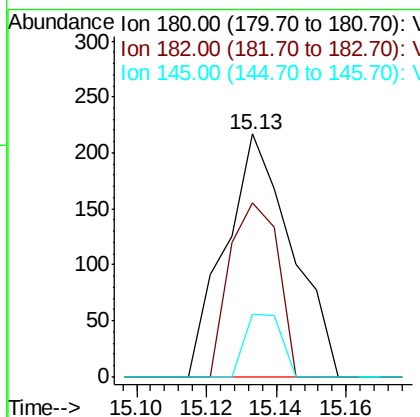
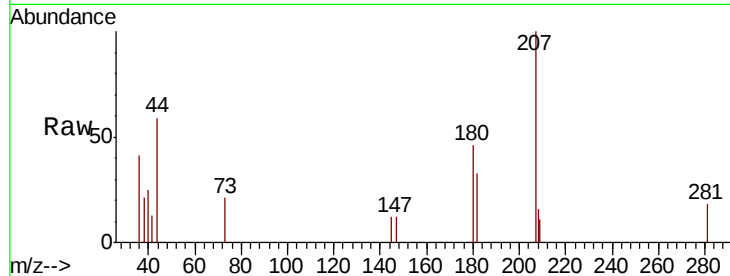




#68
 1,2,4-trichlorobenzene
 Concen: 0.258 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW017006.D
 Acq: 28 Oct 2020 12:12

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:180 Resp: 285
 Ion Ratio Lower Upper
 180 100
 182 52.6 76.6 114.8#
 145 14.4 23.4 35.0#



#69
 Naphthalene
 Concen: 0.463 ug/L
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.01 min
 Lab File: VW017006.D
 Acq: 28 Oct 2020 12:12

Tgt Ion:128 Resp: 829
 Ion Ratio Lower Upper
 128 100
 129 6.6 8.6 12.8#
 127 13.4 10.0 15.0

