

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111519\
 Data File : VW014042.D
 Acq On : 15 Nov 2019 15:47
 Operator : SY/VA
 Sample : K5811-05
 Misc : 3.97G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 16 04:08:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Nov 16 04:05:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	280606	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	183405	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	45043	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	110539	24.69	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.76%
7) Chloroethane-d5	2.89	69	94775	26.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.44%
10) 1,1-Dichloroethene-d2	4.02	63	156624	17.05	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	68.20%
20) 2-Butanone-d5	7.07	46	76428	58.76	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.52%
24) Chloroform-d	7.65	84	226246	26.22	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.88%
26) 1,2-Dichloroethane-d4	8.31	65	127147	29.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	117.24%
29) Benzene-d6	8.27	84	462877	35.57	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	142.28%#
33) 1,2-Dichloropropane-d6	9.27	67	140555	36.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	147.48%#
37) Toluene-d8	10.32	98	346341	28.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.28%
38) trans-1,3-Dichloropropene-	10.57	79	52018	31.86	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	127.44%
39) 2-Hexanone-d5	10.92	63	56213	77.76	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	155.52%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	76323	26.51	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.04%
61) 1,2-Dichlorobenzene-d4	13.85	152	41338	22.84	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.36%

Target Compounds

					Ovalue
13) Acetone	4.12	43	9771	7.383	ug/L 98
14) Carbon disulfide	4.39	76	9084	0.674	ug/L # 93
16) Methylene chloride	4.91	84	8658	1.603	ug/L 84
18) trans-1,2-Dichloroethene	5.42	96	47816	9.680	ug/L 100
22) cis-1,2-Dichloroethene	7.17	96	5732718	1102.840	ug/L 99
25) Chloroform	7.68	83	3621	0.443	ug/L # 31
34) Benzene	8.32	78	7841	0.583	ug/L 100
35) Trichloroethene	9.09	95	4646818	1294.901	ug/L 99
36) Methylcyclohexane	9.33	83	3357	0.522	ug/L 89
40) 1,2-Dichloropropane	9.27	63	14783	4.565	ug/L # 85
42) cis-1,3-Dichloropropene	10.03	75	3102	0.607	ug/L # 64
44) Toluene	10.38	91	36363	2.479	ug/L 96
45) trans-1,3-Dichloropropene	10.57	75	2071	0.512	ug/L 85
46) 1,1,2-Trichloroethane	10.76	97	6889	2.895	ug/L # 21
47) Tetrachloroethene	10.86	164	2523339	788.895	ug/L 99
52) Chlorobenzene	11.66	112	3510	0.382	ug/L 89
53) Ethylbenzene	11.73	91	106767	6.634	ug/L 98

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Quant Title : VOC Analysis
QLast Update : Sat Nov 16 04:05:25 2019
Response via : Initial Calibration

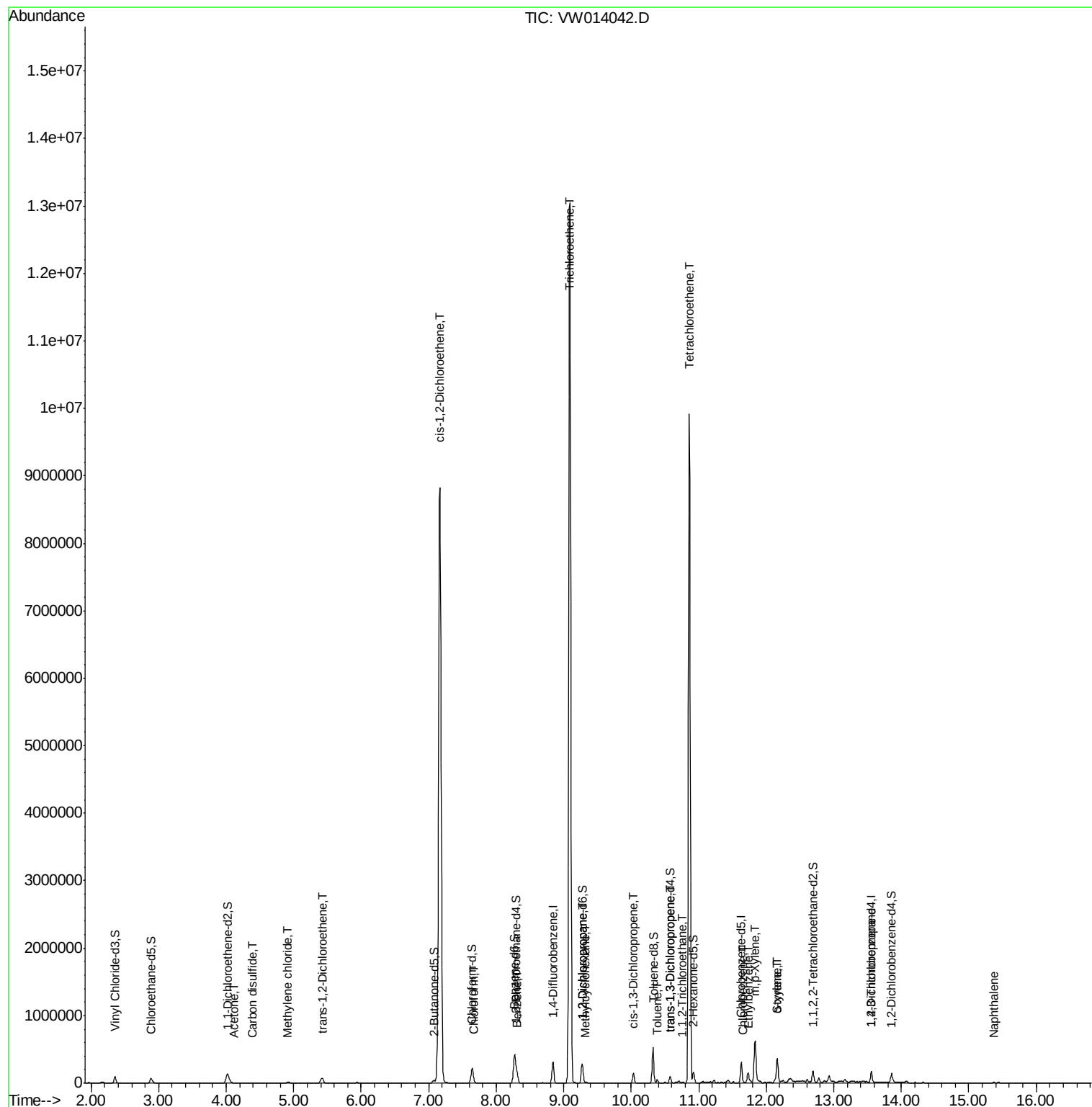
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) m,p-Xylene	11.84	106	189475	30.292	ug/L	95
55) o-xylene	12.16	106	98642	16.841	ug/L	97
56) Styrene	12.16	104	5590	0.565	ug/L #	1
59) 1,2,3-Trichloropropane	13.56	75	4891	2.341	ug/L	89
69) Naphthalene	15.36	128	7987	2.372	ug/L #	95

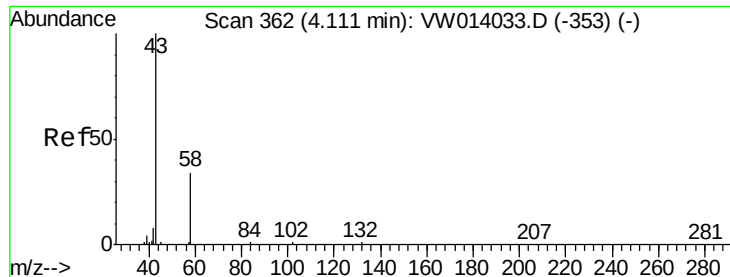
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\
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#13

Acetone

Concen: 7.383 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014042.D

Acq: 15 Nov 2019 15:47

Instrument :

MSVOA_W

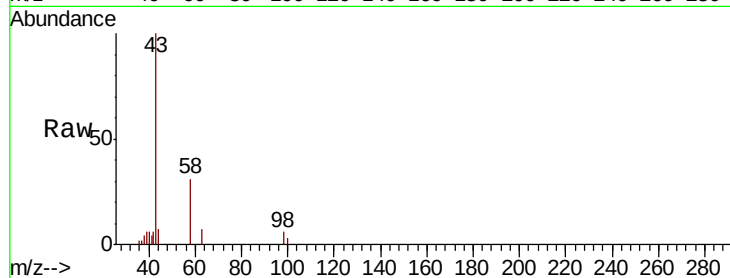
ClientSampleId :

Tot Ion: 43 Resp: 9771

Ion Ratio Lower Upper

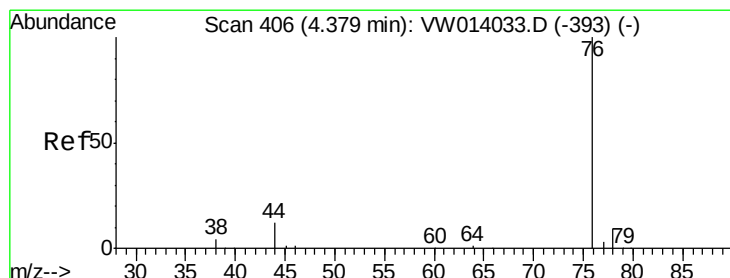
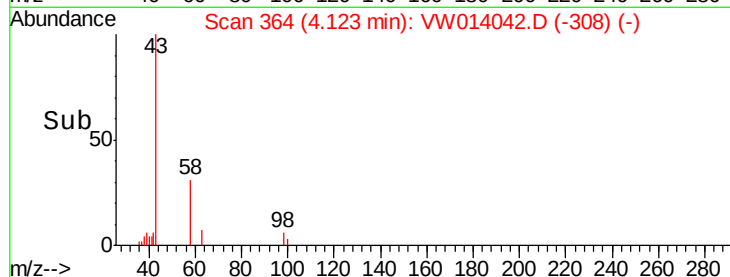
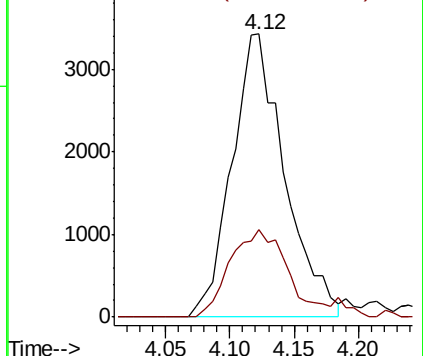
43 100

58 33.7 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.674 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014042.D

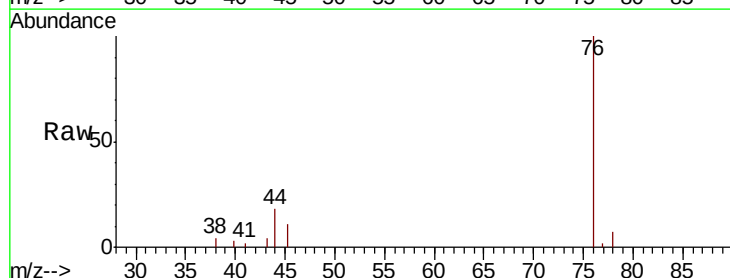
Acq: 15 Nov 2019 15:47

Tgt Ion: 76 Resp: 9084

Ion Ratio Lower Upper

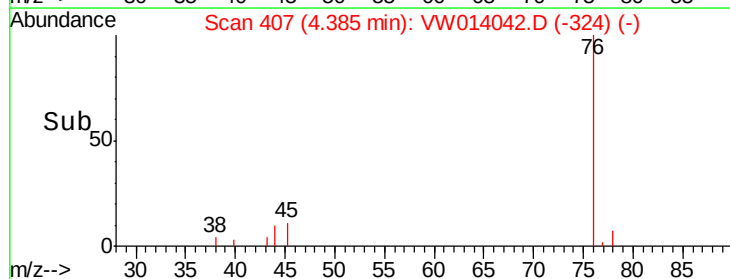
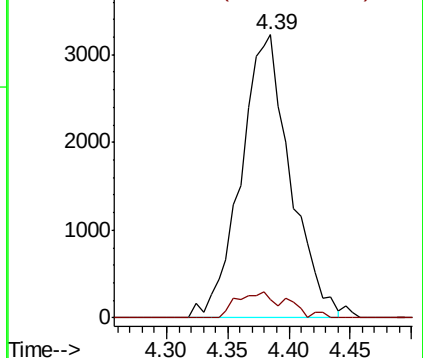
76 100

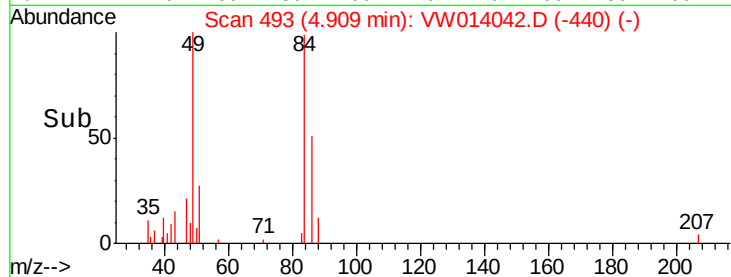
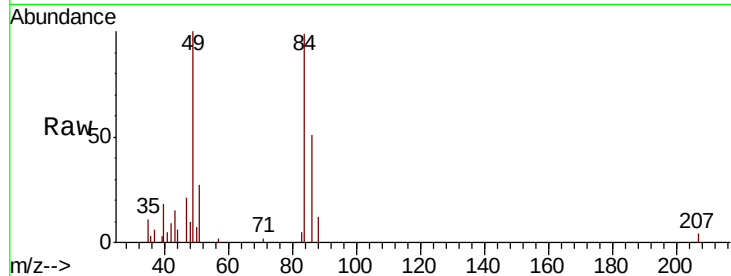
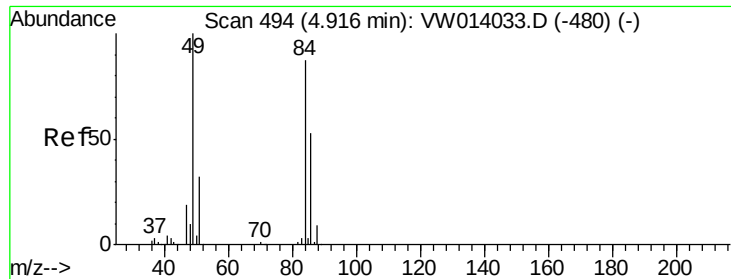
78 6.6 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

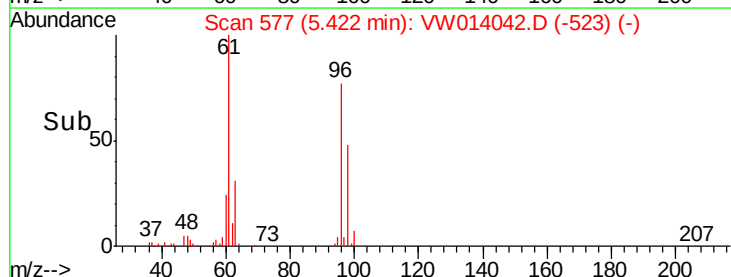
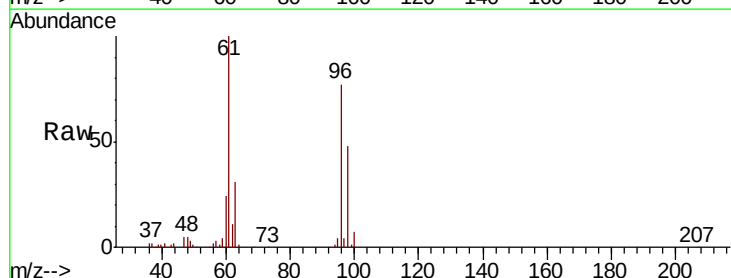
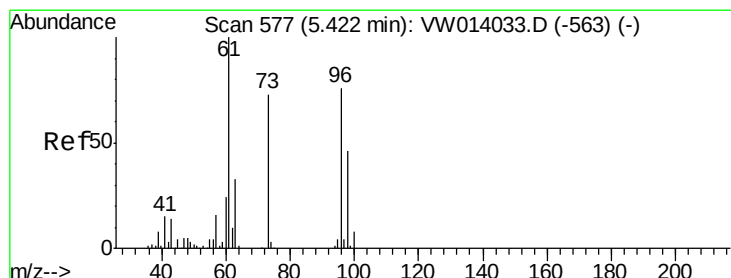
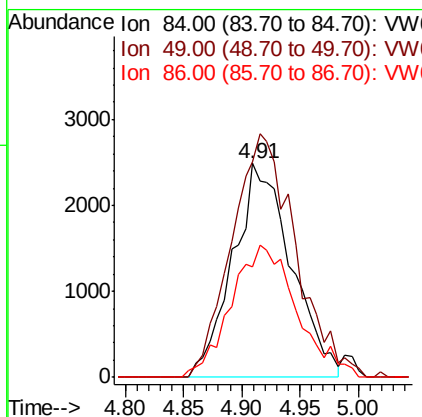




#16
Methylene chloride
Concen: 1.603 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

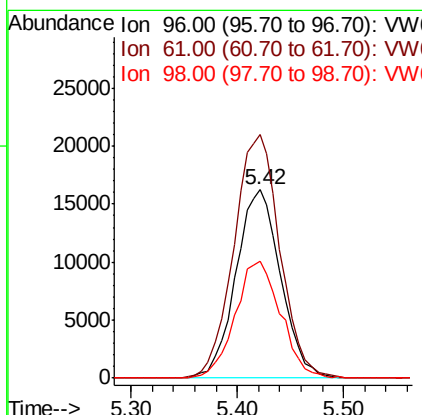
Instrument :
MSVOA_W
ClientSampleId :

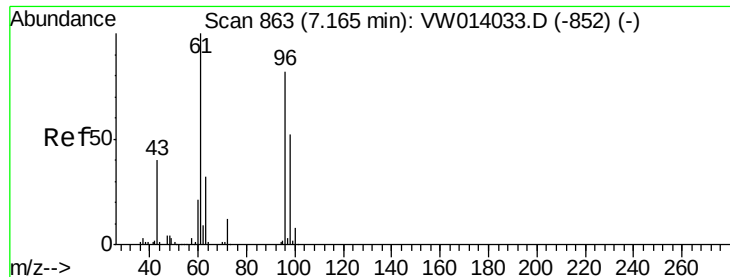
Tot Ion: 84 Resp: 8658
Ion Ratio Lower Upper
84 100
49 100.6 84.2 156.4
86 51.6 43.7 81.1



#18
trans-1,2-Dichloroethene
Concen: 9.680 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

Tgt Ion: 96 Resp: 47816
Ion Ratio Lower Upper
96 100
61 129.3 90.6 168.2
98 61.9 42.9 79.7



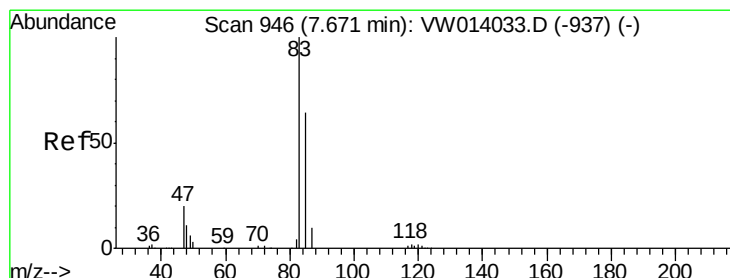
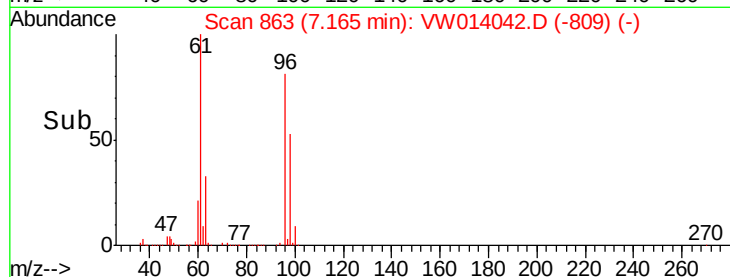
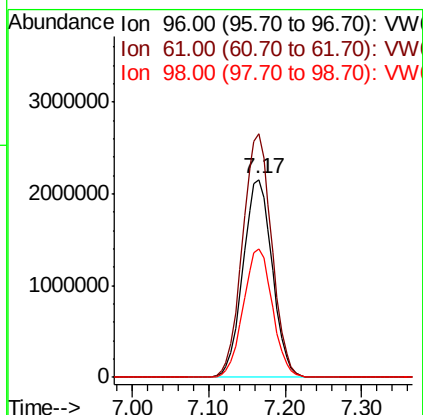
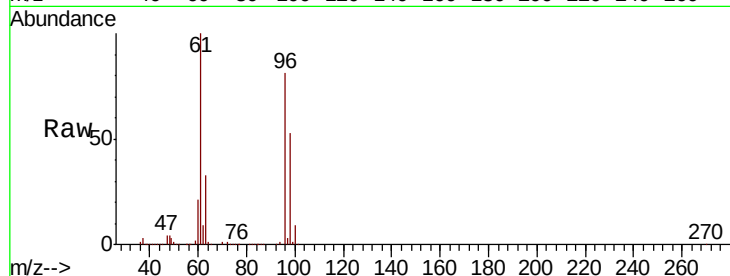


#22

cis-1,2-Dichloroethene
 Concen: 1102.840 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014042.D
 Acq: 15 Nov 2019 15:47

Instrument :
 MSVOA_W
 ClientSampled :

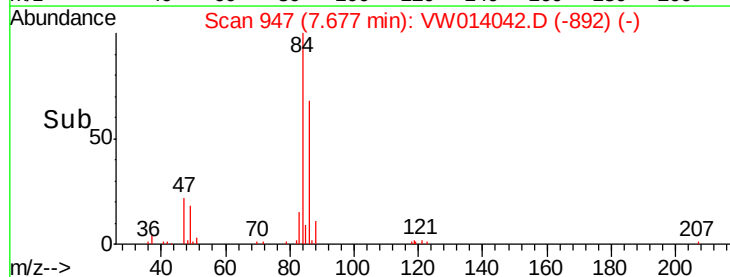
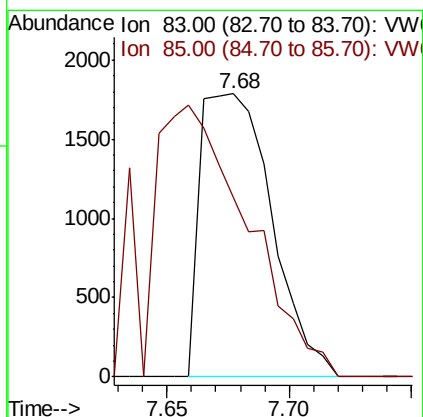
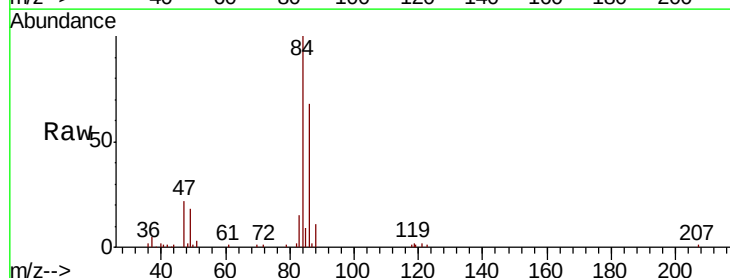
Tot Ion: 96 Resp: 5732718
 Ion Ratio Lower Upper
 96 100
 61 123.2 86.9 161.5
 98 65.0 45.5 84.5

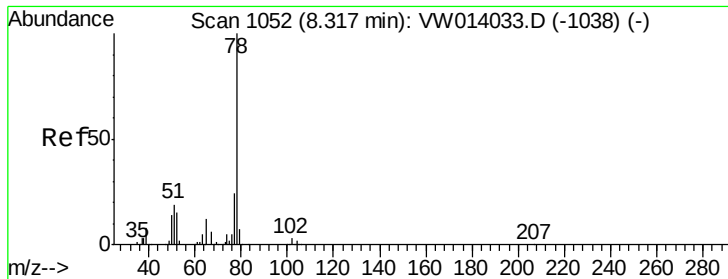


#25

Chloroform
 Concen: 0.443 ug/L
 RT: 7.68 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VW014042.D
 Acq: 15 Nov 2019 15:47

Tgt Ion: 83 Resp: 3621
 Ion Ratio Lower Upper
 83 100
 85 120.4 46.1 85.7#





#34

Benzene

Concen: 0.583 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW014042.D

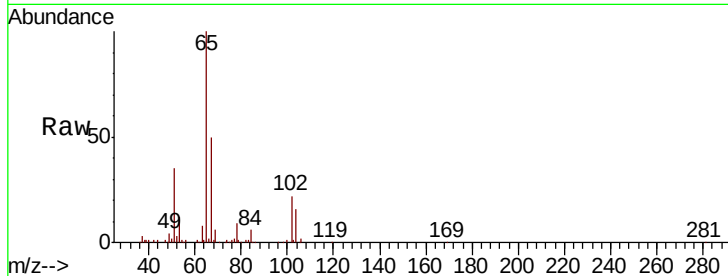
Acq: 15 Nov 2019 15:47

Instrument :

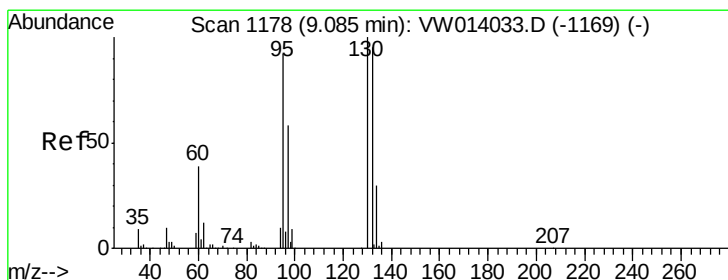
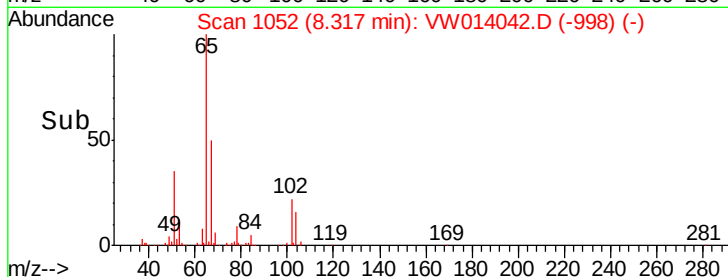
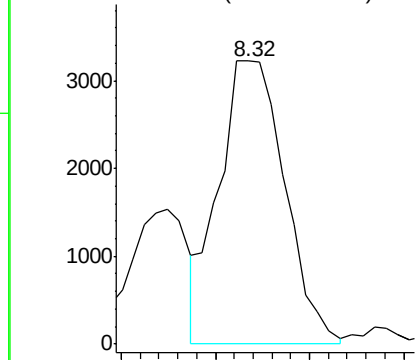
MSVOA_W

ClientSampled :

Tgt Ion: 78 Resp: 7841



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 1294.901 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW014042.D

Acq: 15 Nov 2019 15:47

Tgt Ion: 95 Resp: 4646818

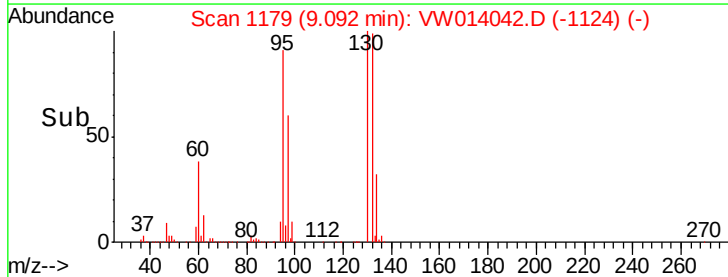
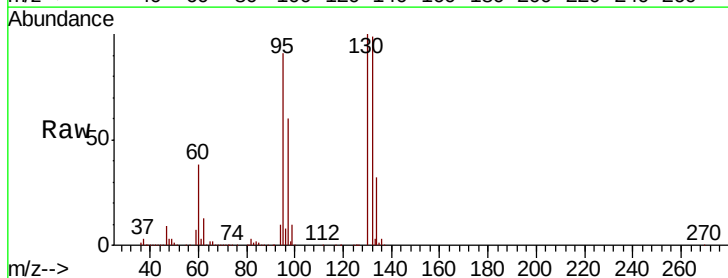
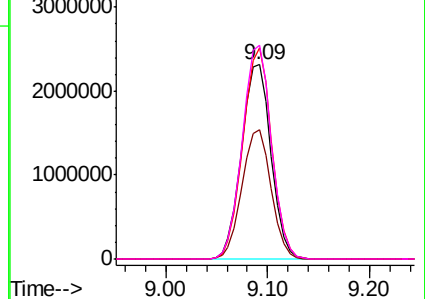
Ion	Ratio	Lower	Upper
95	100		
97	65.7	45.1	83.9
132	106.3	73.7	136.9
130	109.0	76.6	142.2

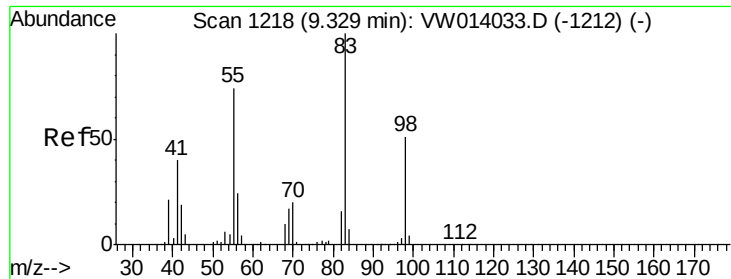
Abundance Ion 95.00 (94.70 to 95.70): VW

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

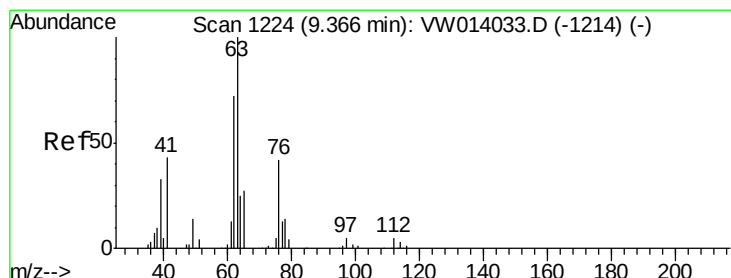
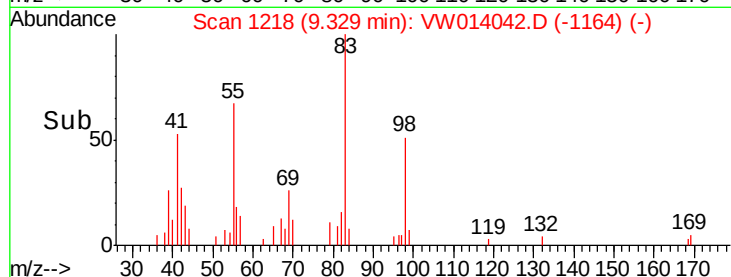
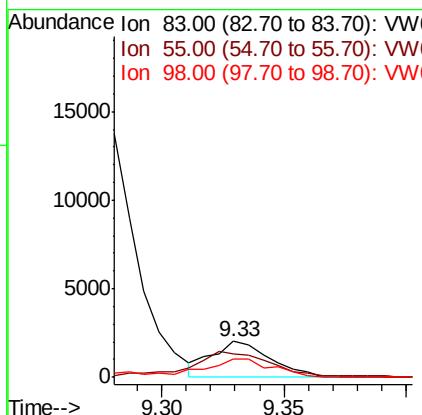
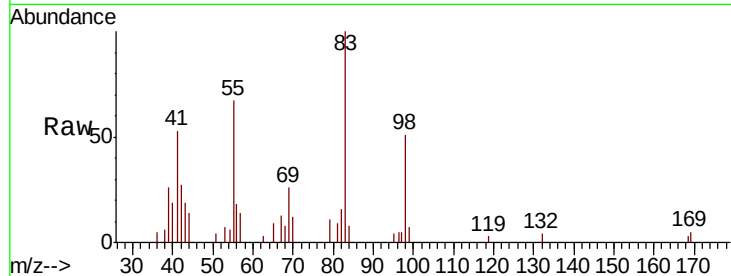




#36
Methylcyclohexane
Concen: 0.522 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

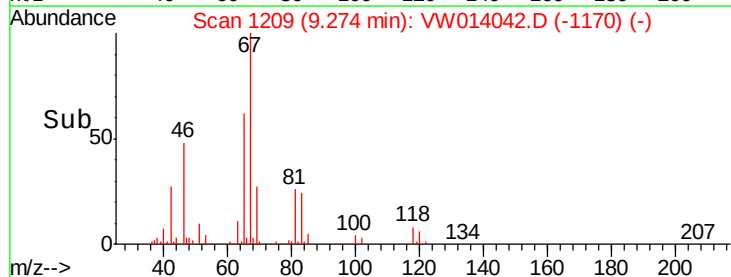
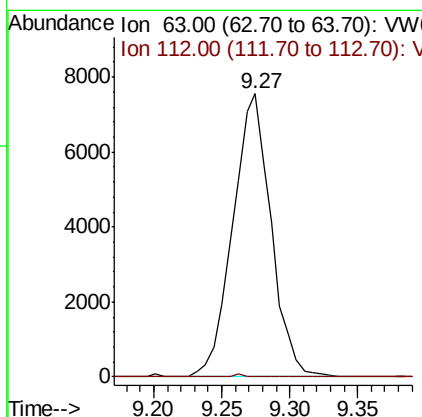
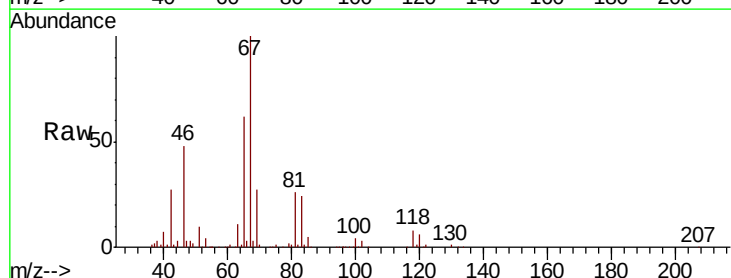
Instrument :
MSVOA_W
ClientSampleId :

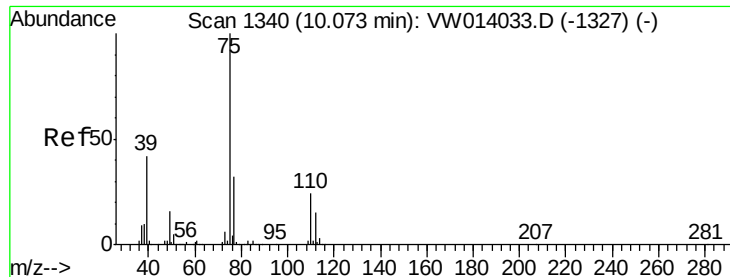
Tot Ion: 83 Resp: 3357
Ion Ratio Lower Upper
83 100
55 84.5 59.8 89.8
98 57.2 39.5 59.3



#40
1,2-Dichloropropane
Concen: 4.565 ug/L
RT: 9.27 min Scan# 1209
Delta R.T. -0.09 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

Tgt Ion: 63 Resp: 14783
Ion Ratio Lower Upper
63 100
112 0.0 3.9 5.9#





#42

cis-1,3-Dichloropropene

Concen: 0.607 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW014042.D

Acq: 15 Nov 2019 15:47

Instrument :

MSVOA_W

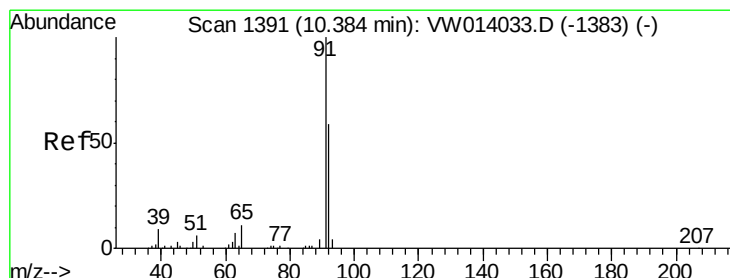
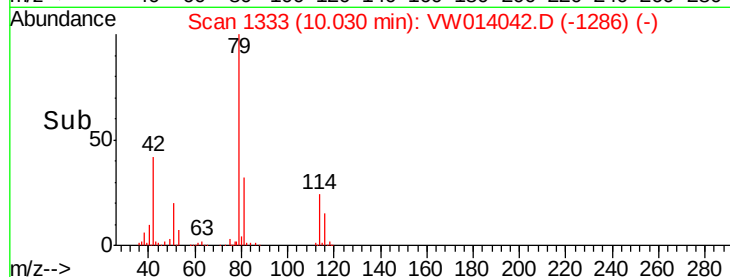
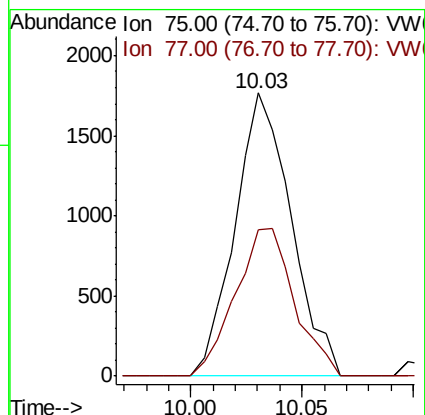
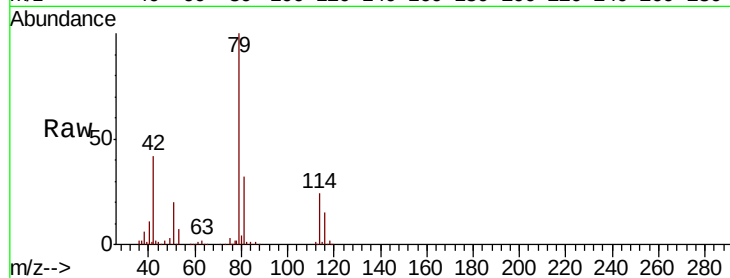
ClientSampleId :

Tot Ion: 75 Resp: 3102

Ion Ratio Lower Upper

75 100

77 51.5 22.1 41.1#



#44

Toluene

Concen: 2.479 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014042.D

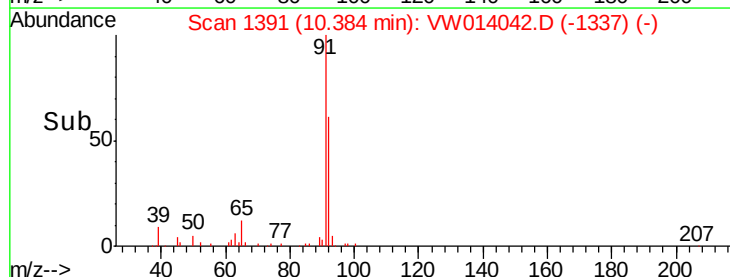
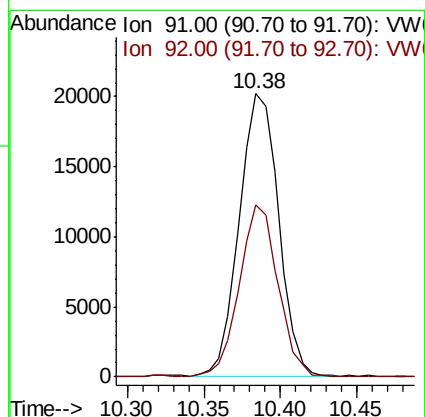
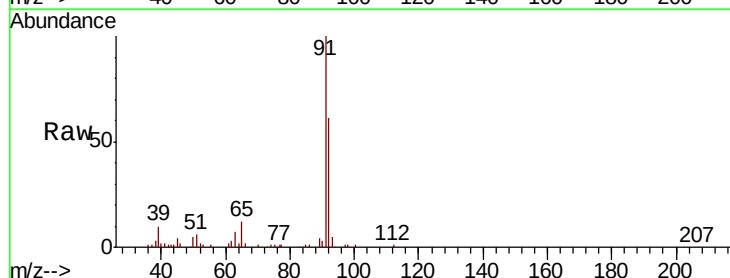
Acq: 15 Nov 2019 15:47

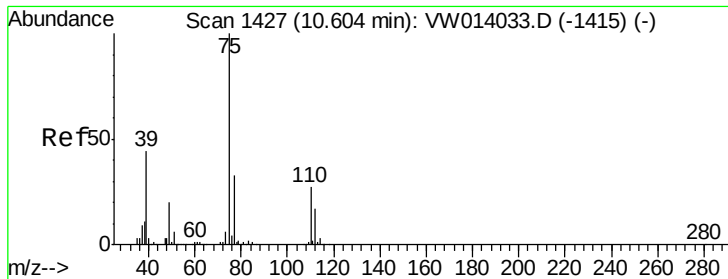
Tgt Ion: 91 Resp: 36363

Ion Ratio Lower Upper

91 100

92 60.8 40.7 75.7





#45

trans-1,3-Dichloropropene

Concen: 0.512 ug/L

RT: 10.57 min Scan# 1422

Delta R.T. -0.03 min

Lab File: VW014042.D

Acq: 15 Nov 2019 15:47

Instrument :

MSVOA_W

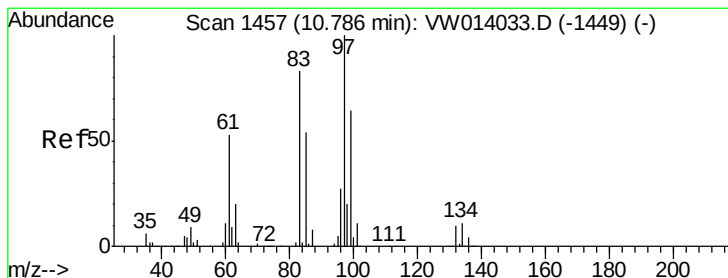
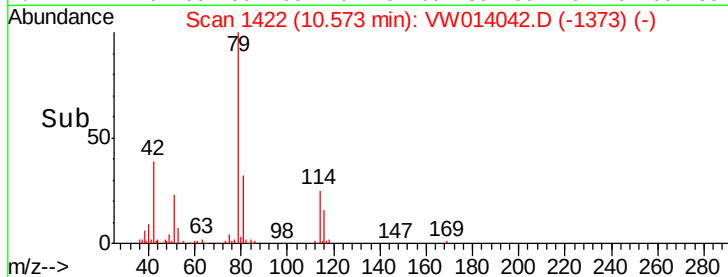
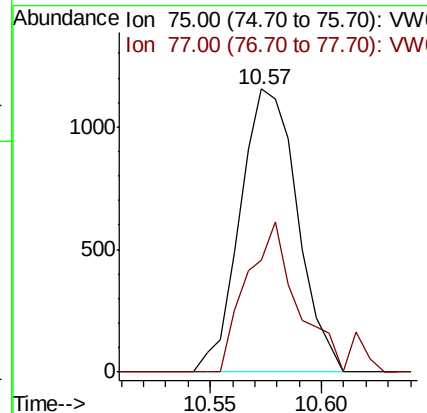
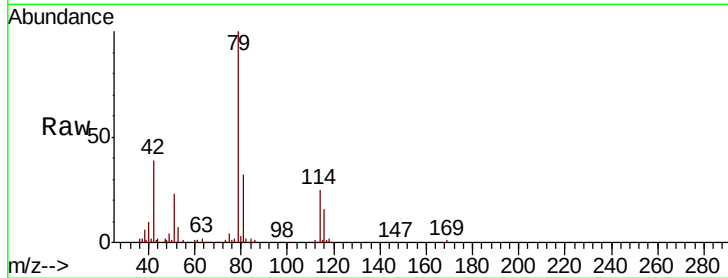
ClientSampled :

Tot Ion: 75 Resp: 2071

Ion Ratio Lower Upper

75 100

77 39.6 21.8 40.6



#46

1,1,2-Trichloroethane

Concen: 2.895 ug/L

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW014042.D

Acq: 15 Nov 2019 15:47

Tgt Ion: 97 Resp: 6889

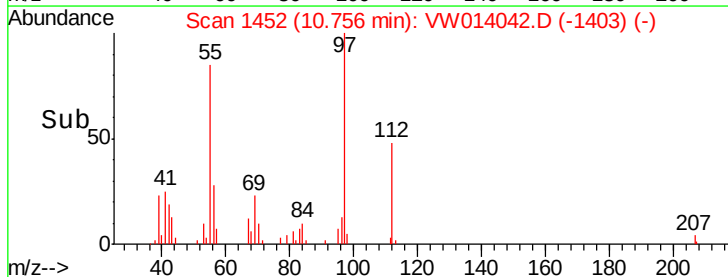
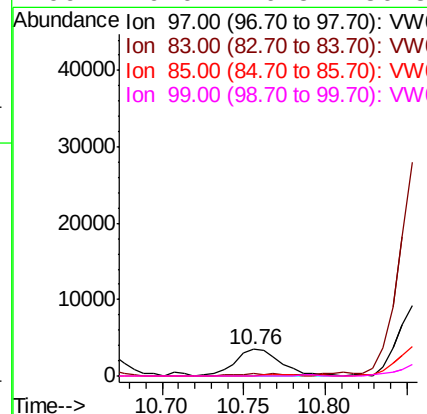
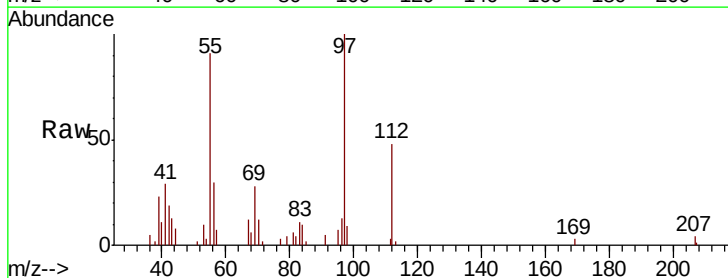
Ion Ratio Lower Upper

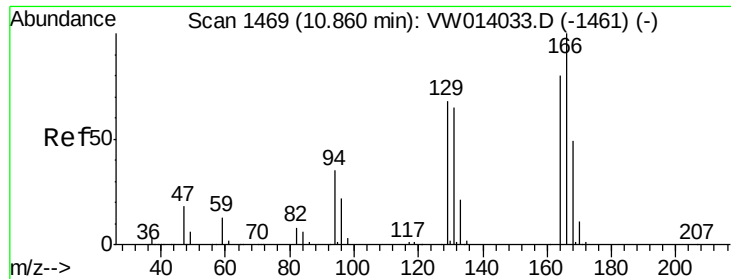
97 100

83 11.3 58.9 109.5#

85 1.7 38.1 70.9#

99 0.0 46.5 86.3#

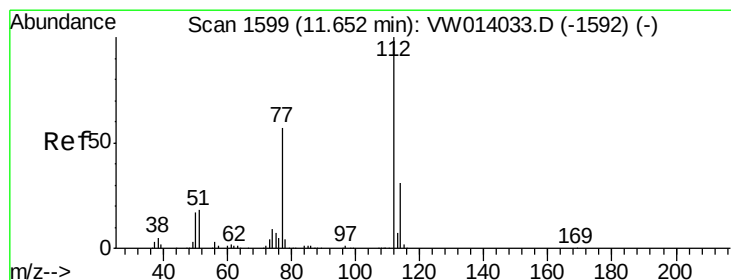
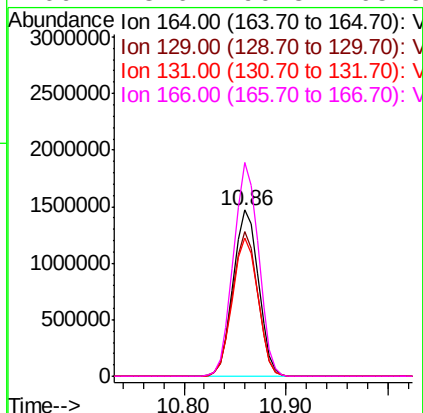
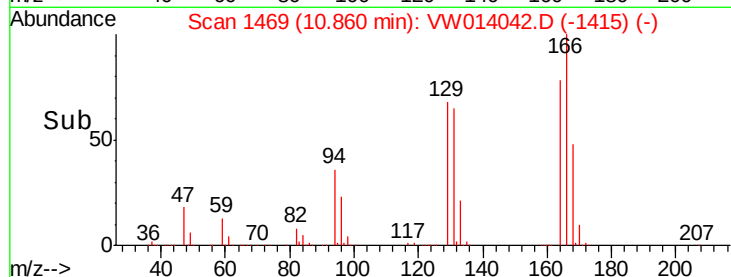
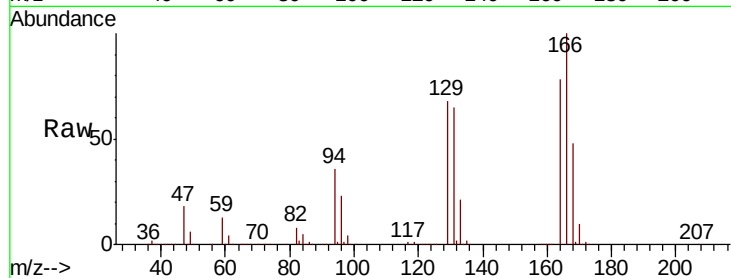




#47
Tetrachloroethene
Concen: 788.895 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

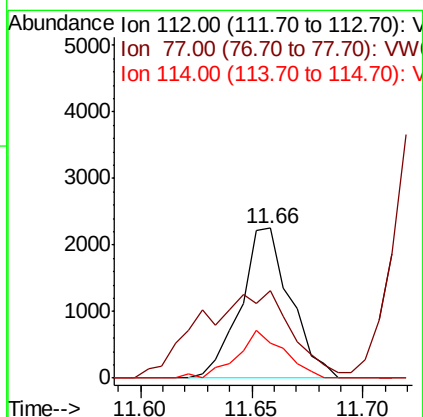
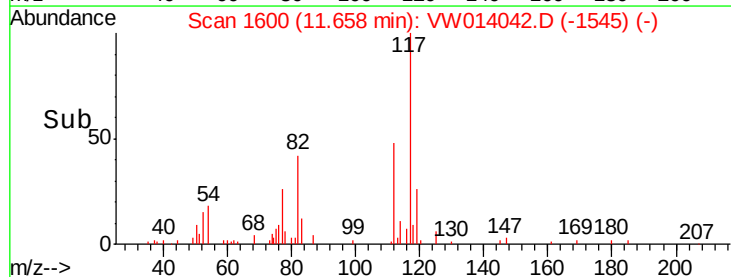
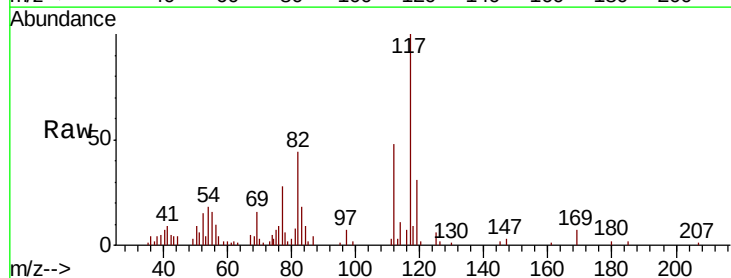
Instrument :
MSVOA_W
ClientSampled :

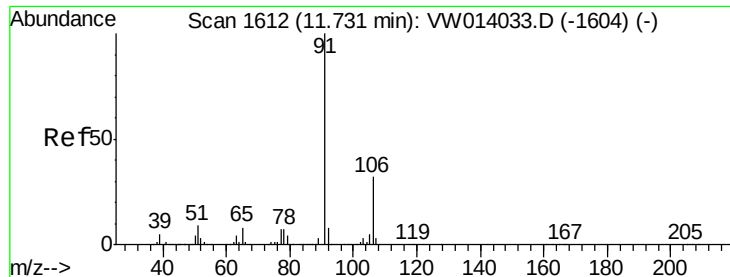
Tot Ion:164 Resp: 2523339
Ion Ratio Lower Upper
164 100
129 87.0 60.6 112.6
131 83.4 59.1 109.7
166 128.6 90.8 168.6



#52
Chlorobenzene
Concen: 0.382 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

Tgt Ion:112 Resp: 3510
Ion Ratio Lower Upper
112 100
77 58.4 42.2 63.4
114 23.6 22.5 41.9

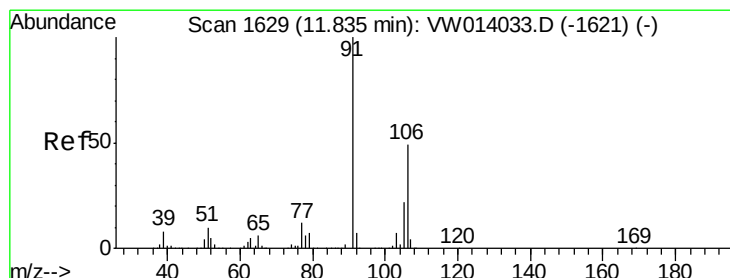
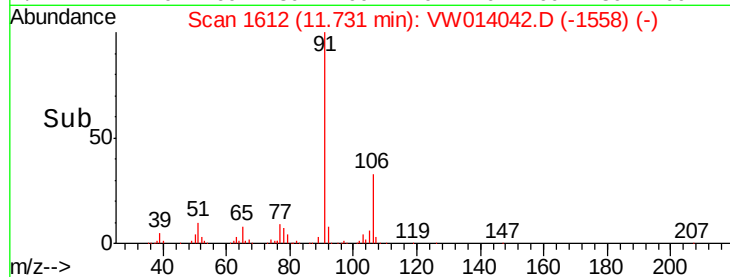
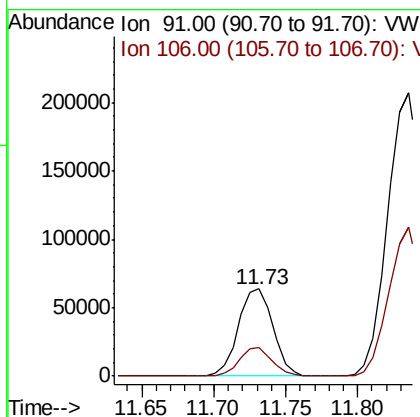
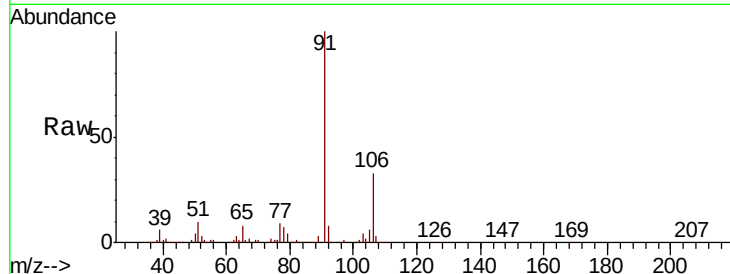




#53
Ethylbenzene
Concen: 6.634 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

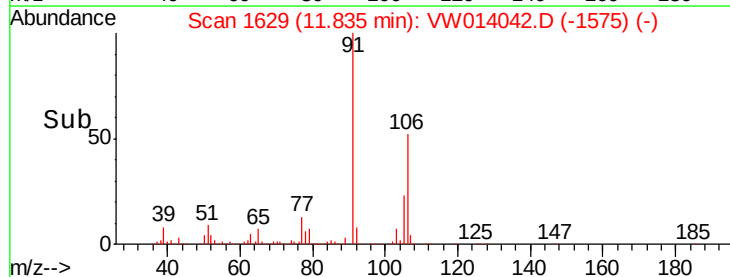
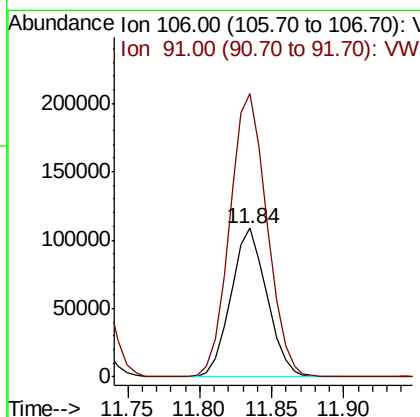
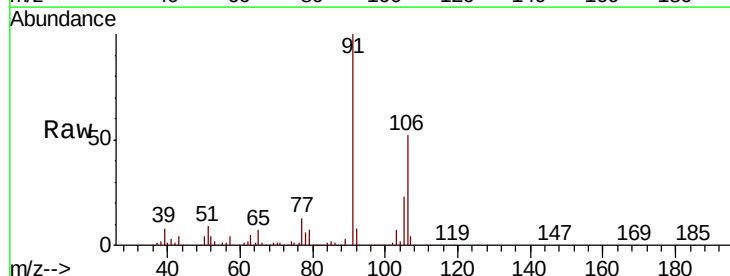
Instrument :
MSVOA_W
ClientSampleId :

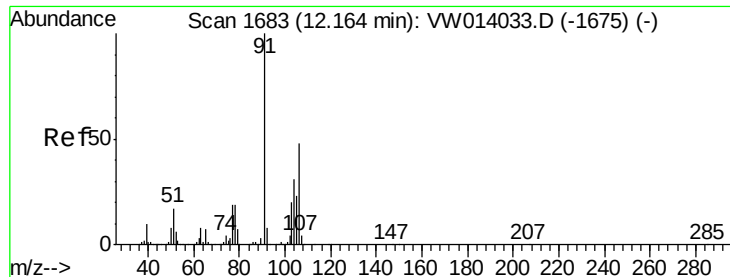
Tot Ion: 91 Resp: 106767
Ion Ratio Lower Upper
91 100
106 33.1 22.3 41.5



#54
m,p-Xylene
Concen: 30.292 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW014042.D
Acq: 15 Nov 2019 15:47

Tgt Ion: 106 Resp: 189475
Ion Ratio Lower Upper
106 100
91 190.5 138.7 257.5





#55

o-xylene

Concen: 16.841 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014042.D

Acq: 15 Nov 2019 15:47

Instrument :

MSVOA_W

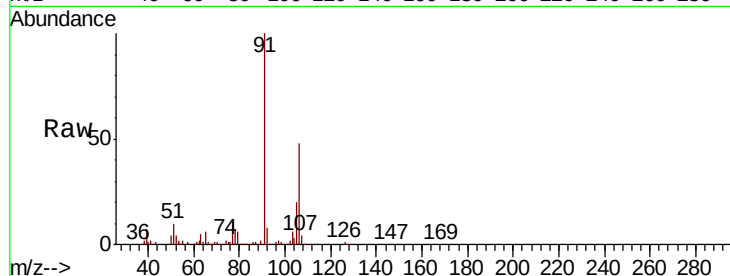
ClientSampled :

Tot Ion:106 Resp: 98642

Ion Ratio Lower Upper

106 100

91 206.7 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

150000

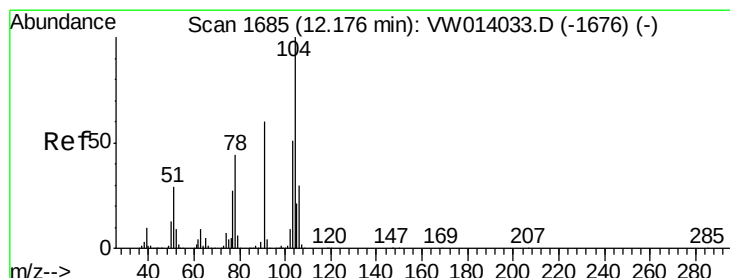
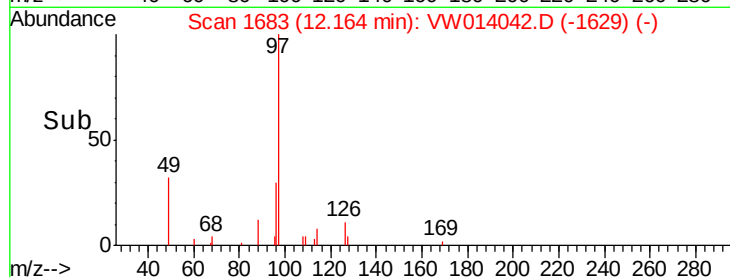
100000

50000

0

12.10 12.20

Time-->



#56

Styrene

Concen: 0.565 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW014042.D

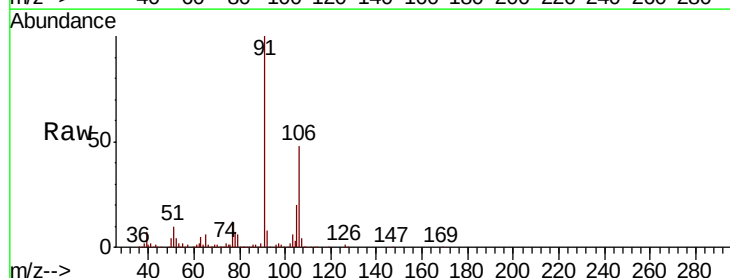
Acq: 15 Nov 2019 15:47

Tgt Ion:104 Resp: 5590

Ion Ratio Lower Upper

104 100

78 258.8 30.6 56.8#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

10000

8000

6000

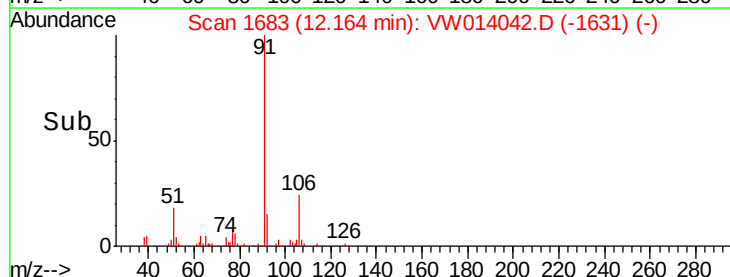
4000

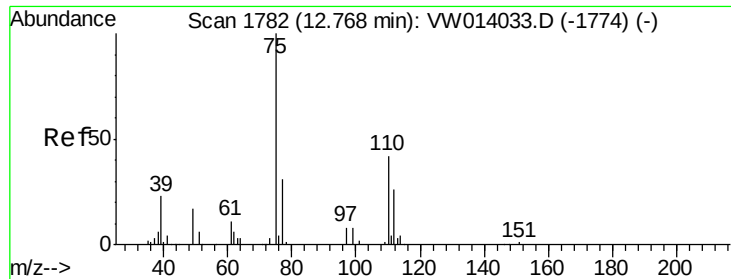
2000

0

12.10 12.15 12.20

Time-->

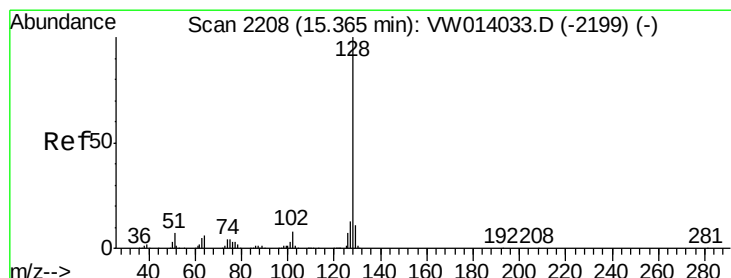
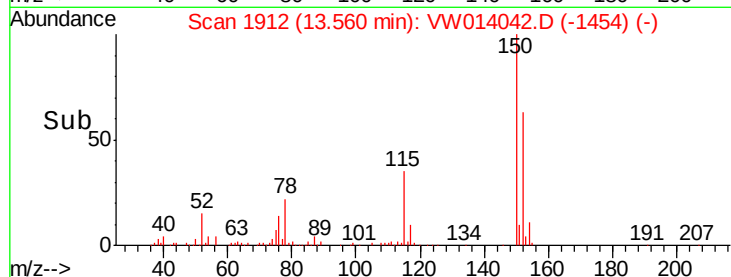
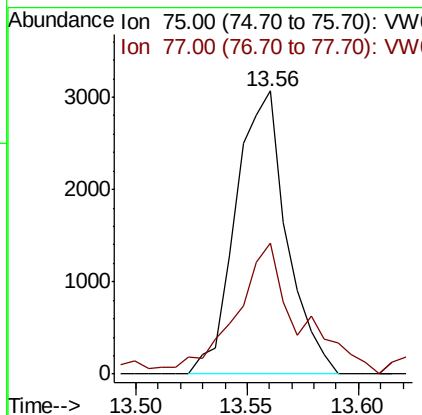
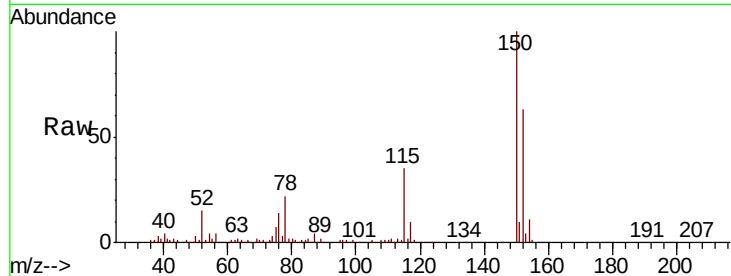




#59
 1,2,3-Trichloropropane
 Concen: 2.341 ug/L
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.79 min
 Lab File: VW014042.D
 Acq: 15 Nov 2019 15:47

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion: 75 Resp: 4891
 Ion Ratio Lower Upper
 75 100
 77 38.6 25.9 38.9



#69
 Naphthalene
 Concen: 2.372 ug/L
 RT: 15.36 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VW014042.D
 Acq: 15 Nov 2019 15:47

Tgt Ion: 128 Resp: 7987
 Ion Ratio Lower Upper
 128 100
 129 11.7 8.8 13.2
 127 16.1 10.4 15.6#

