

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122319\
 Data File : VV014161.D
 Acq On : 23 Dec 2019 16:23
 Operator : SY/MD
 Sample : VV1223WBL01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 24 01:36:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR122319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 24 01:34:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	382360	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	356580	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	164237	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	140658	5.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.60%
7) Chloroethane-d5	1.58	69	118711	5.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.60%
11) 1,1-Dichloroethene-d2	2.13	63	185430	3.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.80%
20) 2-Butanone-d5	3.95	46	279234	53.95	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.90%
24) Chloroform-d	4.40	84	257926	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.08	65	131460	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.20%
32) Benzene-d6	5.09	84	531882	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
36) 1,2-Dichloropropane-d6	6.11	67	163763	5.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.60%
41) Toluene-d8	7.35	98	431837	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.66	79	54424	4.79	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.80%
46) 2-Hexanone-d5	8.13	63	195980	48.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.66%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	101864	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	165570	5.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.60%

Target Compounds

					Ovalue
12) 1,1-Dichloroethene	2.13	96	2412	0.109 ug/L #	1
13) Acetone	2.21	43	9649	2.289 ug/L	73
14) Carbon disulfide	2.31	76	4505	0.061 ug/L #	88
16) Methylene chloride	2.53	84	9266	0.313 ug/L	100
25) Chloroform	4.42	83	7828	0.158 ug/L	94
35) Methylcyclohexane	6.11	83	39658	1.008 ug/L #	16
37) 1,2-Dichloropropane	6.11	63	17372	0.700 ug/L #	86
42) Toluene	7.43	91	6877	0.065 ug/L	90
44) trans-1,3-Dichloropropene	7.66	75	2473	0.090 ug/L	84
48) 2-Hexanone	8.19	43	10987	1.112 ug/L #	90
51) Chlorobenzene	8.92	112	4784	0.070 ug/L	91
55) Styrene	9.60	104	3609	0.052 ug/L	83
63) 1,4-Dichlorobenzene	11.32	146	4068	0.084 ug/L	86
67) 1,3,5-Trichlorobenzene	12.69	180	3061	0.078 ug/L	93
68) 1,2,4-trichlorobenzene	13.30	180	3031	0.094 ug/L	89
69) Naphthalene	13.56	128	3964	0.094 ug/L #	86
70) 1,2,3-Trichlorobenzene	13.79	180	2516	0.085 ug/L	88

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Quant Time: Dec 24 01:36:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR122319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 24 01:34:37 2019
Response via : Initial Calibration

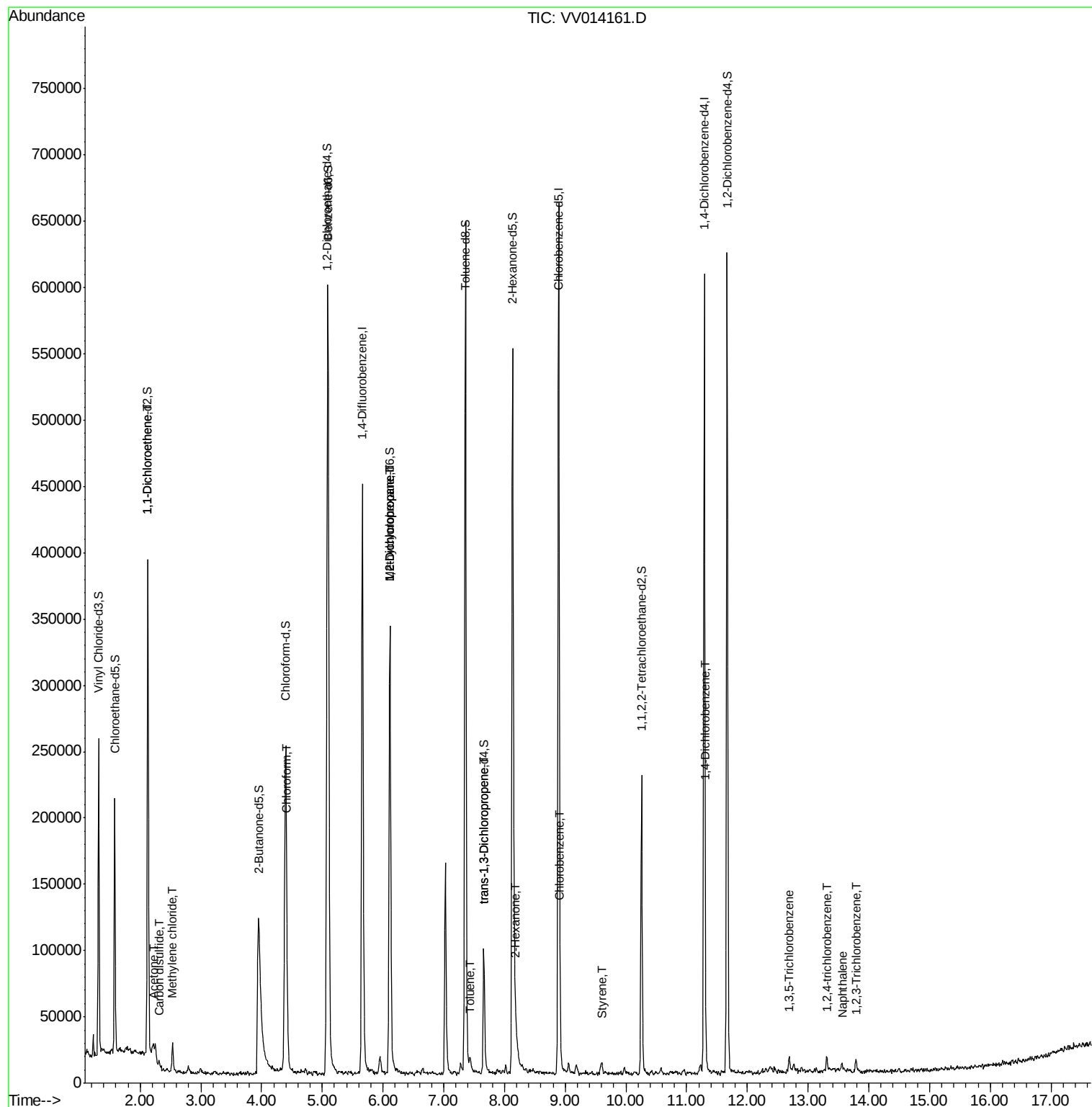
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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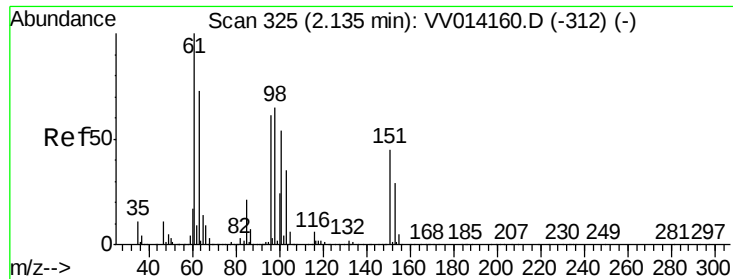
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV122319\
Data File : VV014161.D
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR122319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 24 01:34:37 2019
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.109 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

Instrument :
MSVOA_V
ClientSampleId :

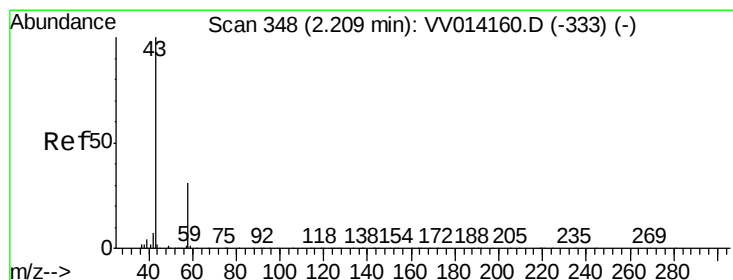
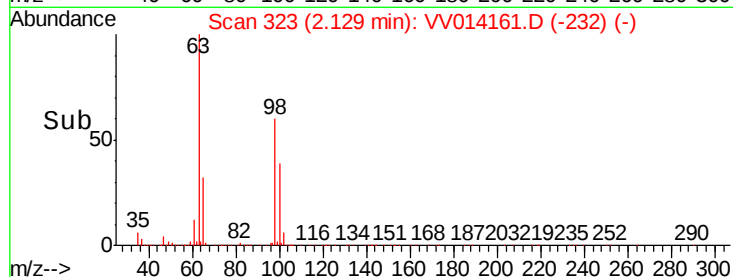
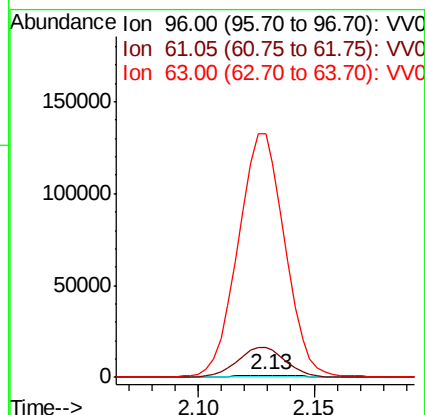
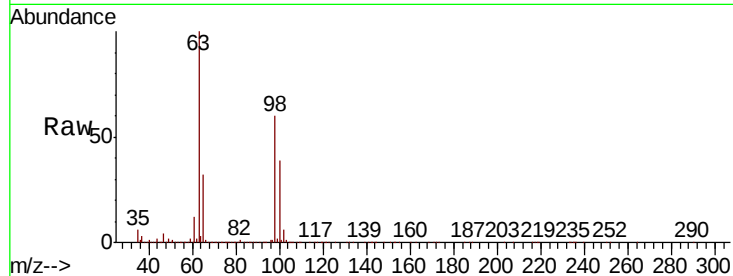
Tot Ion: 96 Resp: 2412

Ion Ratio Lower Upper

96 100

61 1278.3 115.8 215.2#

63 10453.0 79.9 148.3#



#13

Acetone

Concen: 2.289 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VV014161.D

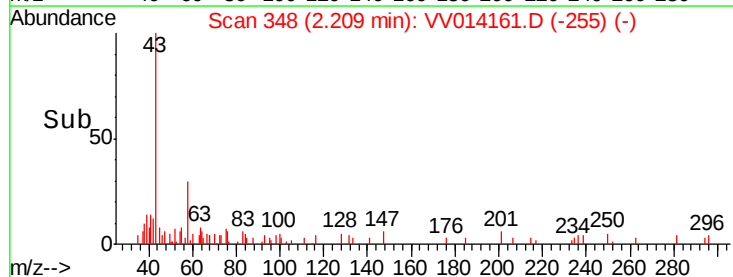
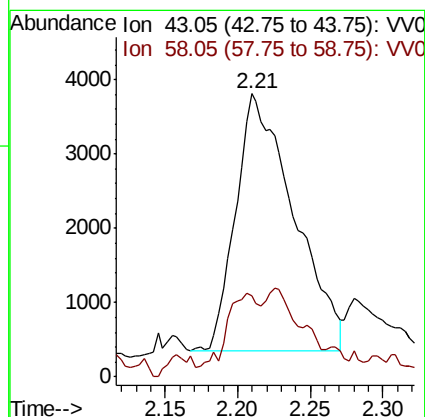
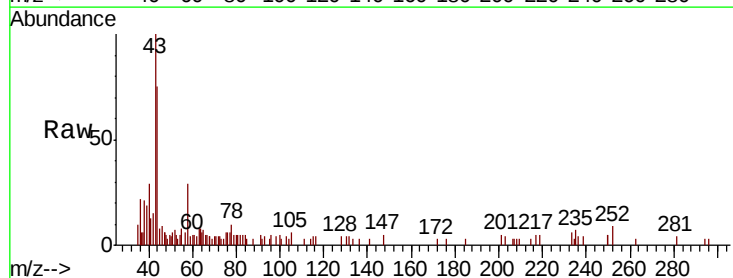
Acq: 23 Dec 2019 16:23

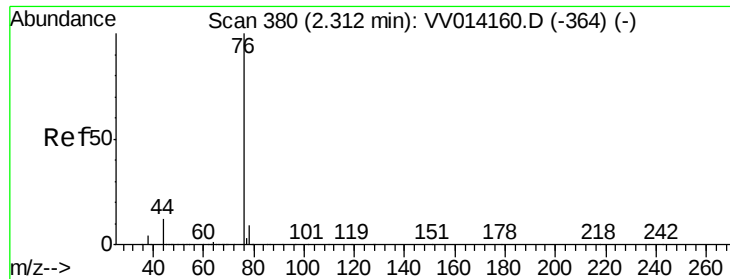
Tgt Ion: 43 Resp: 9649

Ion Ratio Lower Upper

43 100

58 14.9 0.0 58.8





#14

Carbon disulfide

Concen: 0.061 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

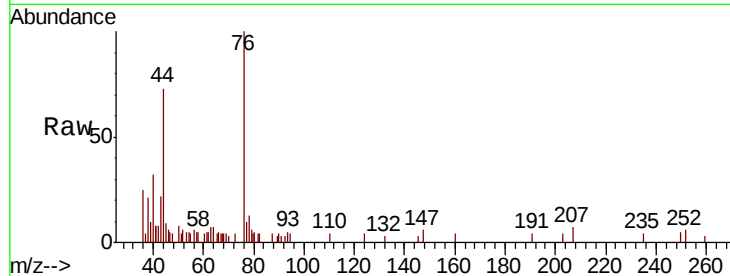
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 76 Resp: 4505

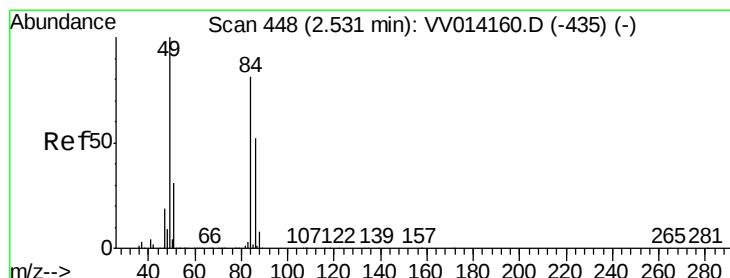
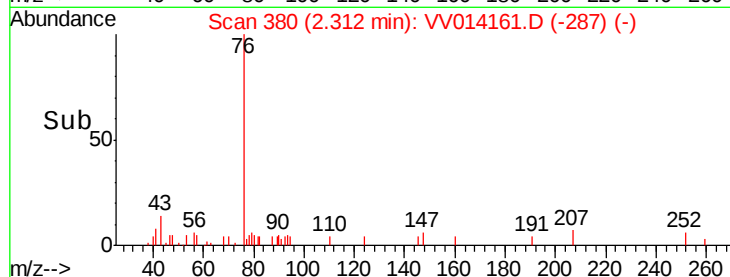
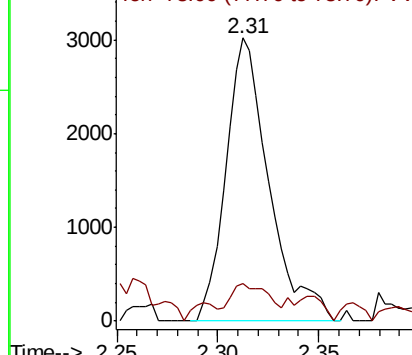
Ion Ratio Lower Upper

76 100

78 13.2 7.0 10.6#



Abundance Ion 76.05 (75.75 to 76.75): VV0
Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 0.313 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

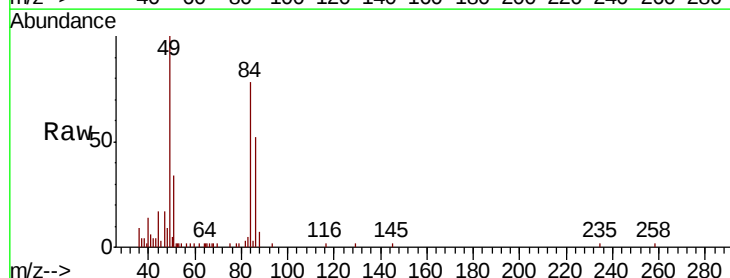
Tgt Ion: 84 Resp: 9266

Ion Ratio Lower Upper

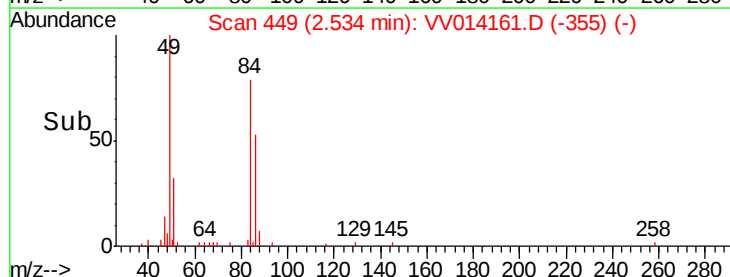
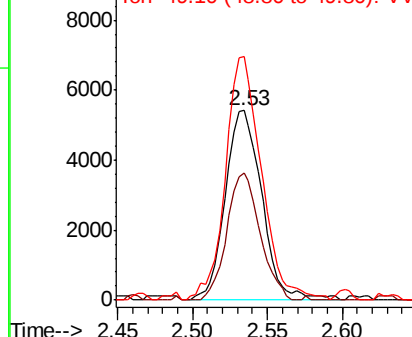
84 100

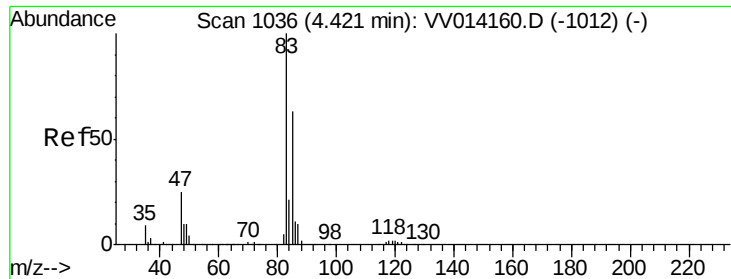
86 66.6 46.3 85.9

49 128.3 89.8 166.8



Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

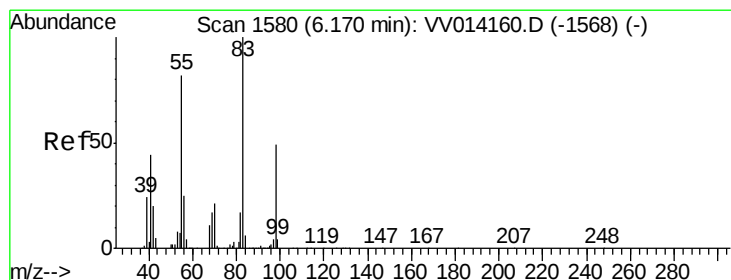
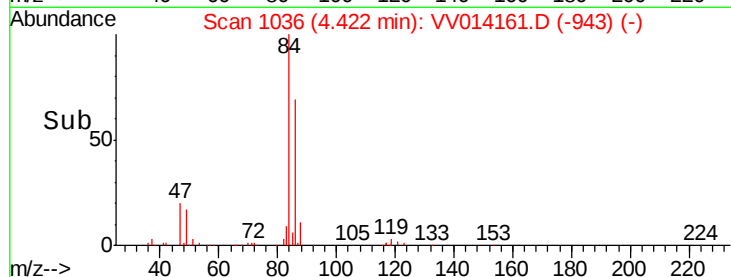
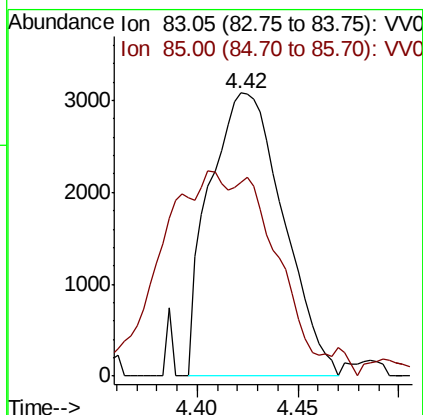
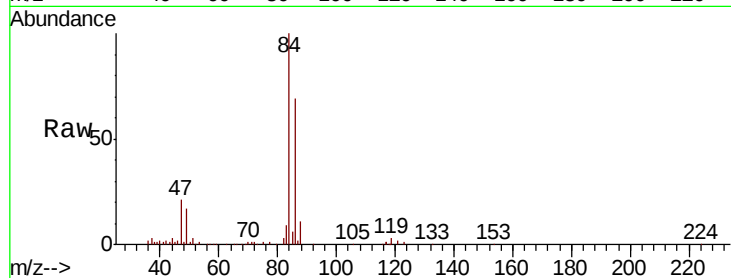




#25
Chloroform
Concen: 0.158 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV014161.D
Acq: 23 Dec 2019 16:23

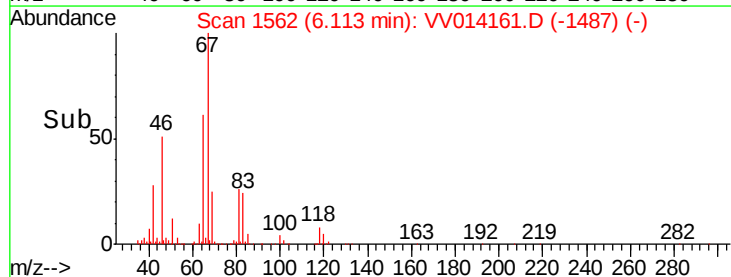
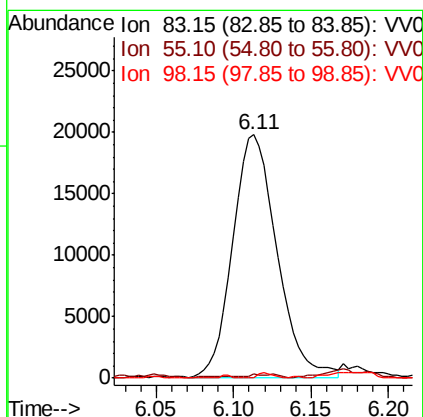
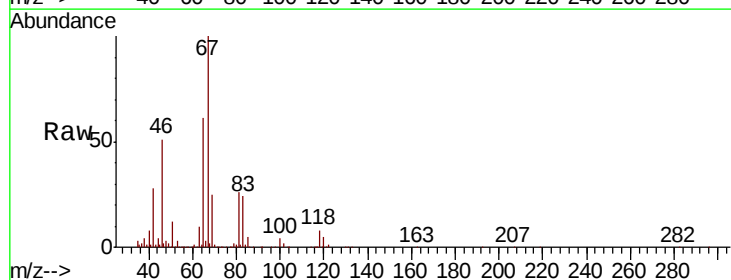
Instrument :
MSVOA_V
ClientSampleId :

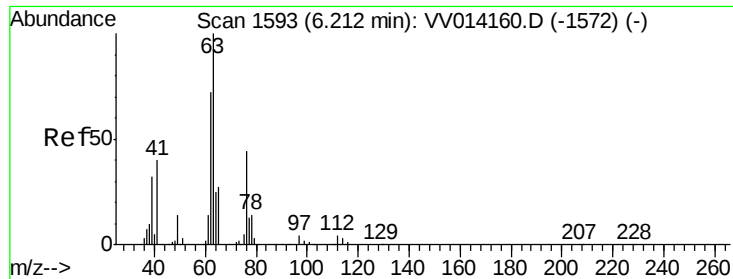
Tot Ion: 83 Resp: 7828
Ion Ratio Lower Upper
83 100
85 68.7 44.6 82.8



#35
Methylcyclohexane
Concen: 1.008 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.06 min
Lab File: VV014161.D
Acq: 23 Dec 2019 16:23

Tgt Ion: 83 Resp: 39658
Ion Ratio Lower Upper
83 100
55 0.1 65.3 97.9#
98 0.0 39.2 58.8#





#37

1,2-Dichloropropane

Concen: 0.700 ug/L

RT: 6.11 min Scan# 1561

Delta R.T. -0.10 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

Instrument :

MSVOA_V

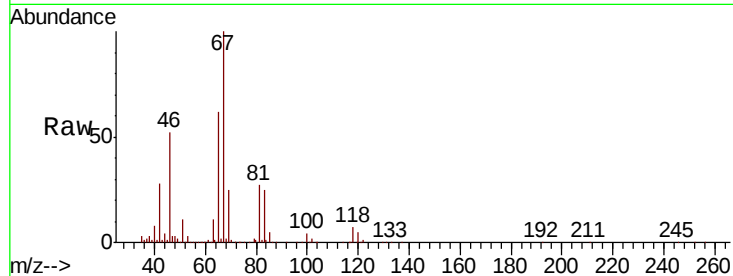
ClientSampleId :

Tot Ion: 63 Resp: 17372

Ion Ratio Lower Upper

63 100

112 0.4 4.0 6.0#

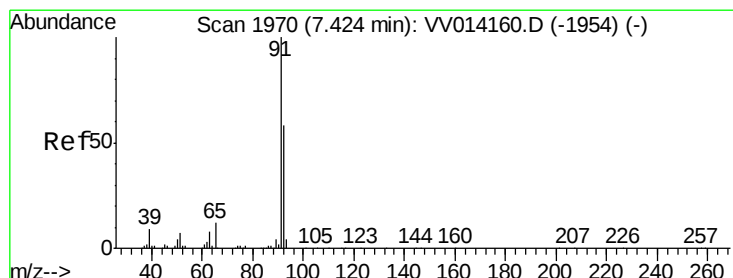
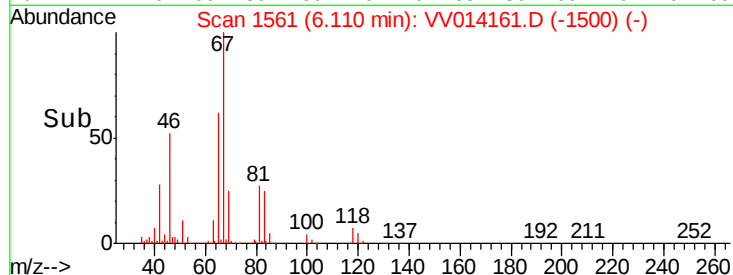


Abundance Ion 63.10 (62.80 to 63.80): VV014161.D (-1500) (-)

Ion 112.10 (111.80 to 112.80): VV014161.D (-1500) (-)

6.11

Time-->



#42

Toluene

Concen: 0.065 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014161.D

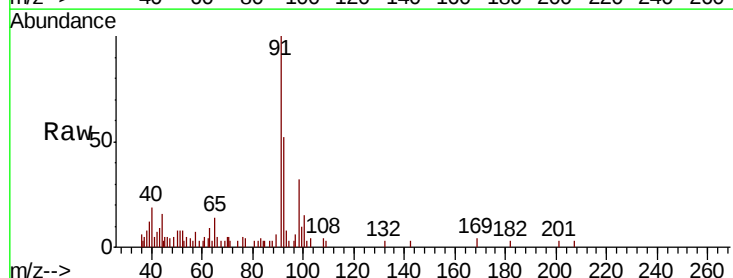
Acq: 23 Dec 2019 16:23

Tgt Ion: 91 Resp: 6877

Ion Ratio Lower Upper

91 100

92 51.7 41.2 76.6

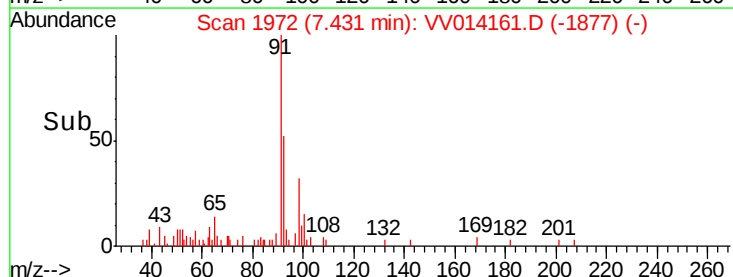


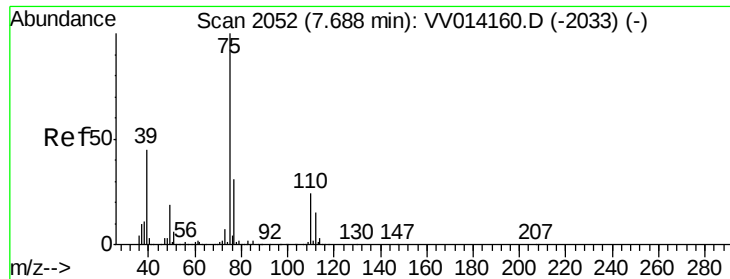
Abundance Ion 91.15 (90.85 to 91.85): VV014161.D (-1877) (-)

Ion 92.15 (91.85 to 92.85): VV014161.D (-1877) (-)

7.43

Time-->





#44

trans-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 7.66 min Scan# 2042

Delta R.T. -0.03 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

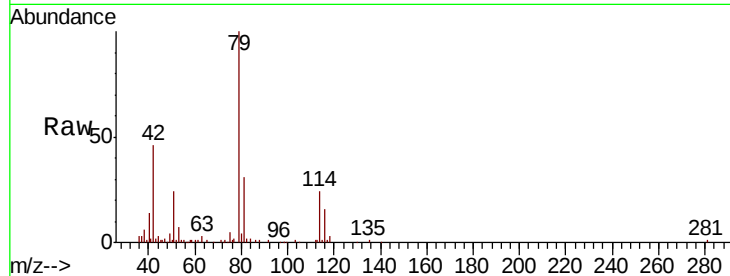
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 75 Resp: 2473

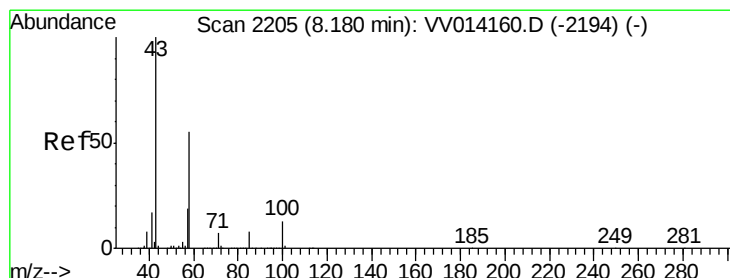
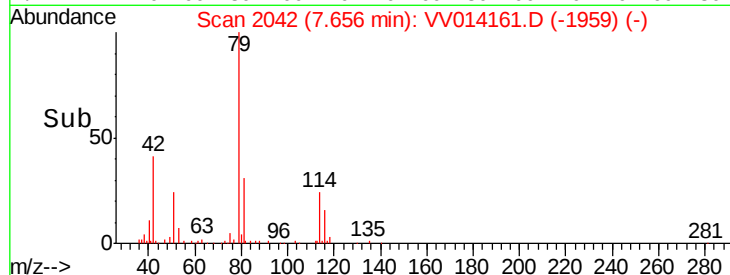
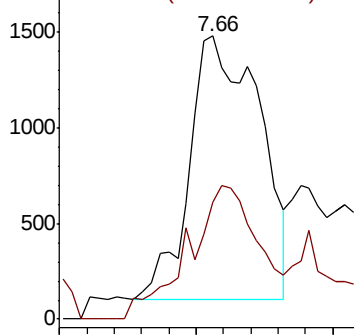
Ion Ratio Lower Upper

75 100

77 41.5 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0



#48

2-Hexanone

Concen: 1.112 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.01 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

Tgt Ion: 43 Resp: 10987

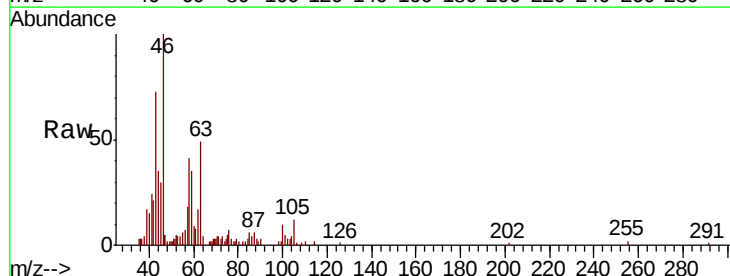
Ion Ratio Lower Upper

43 100

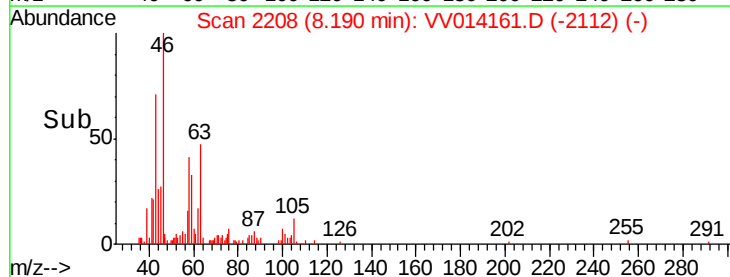
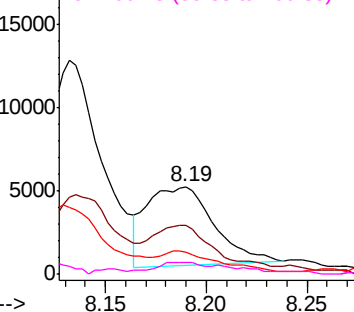
58 46.9 43.2 64.8

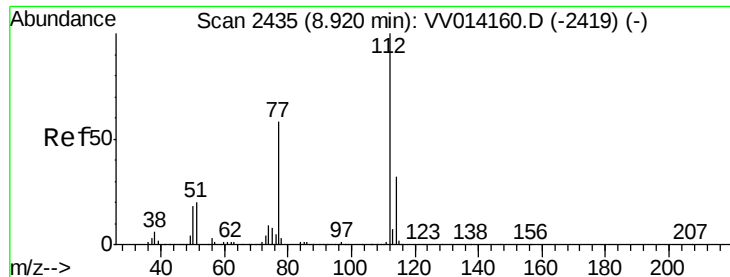
57 24.4 14.8 22.2#

100 8.9 9.7 14.5#



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0





#51

Chlorobenzene

Concen: 0.070 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

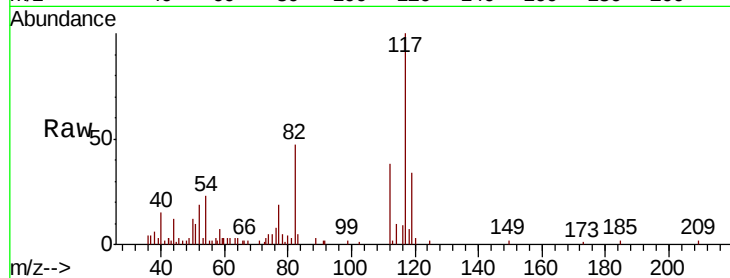
Tot Ion:112 Resp: 4784

Ion Ratio Lower Upper

112 100

114 26.5 22.3 41.5

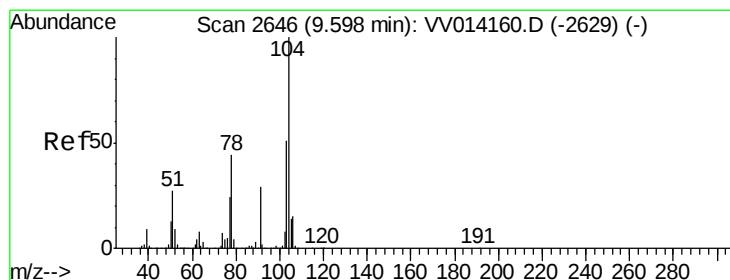
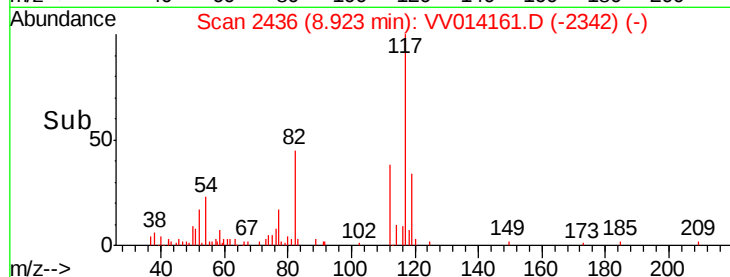
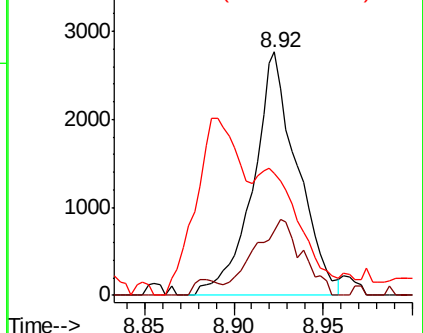
77 50.1 45.1 67.7



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0



#55

Styrene

Concen: 0.052 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.01 min

Lab File: VV014161.D

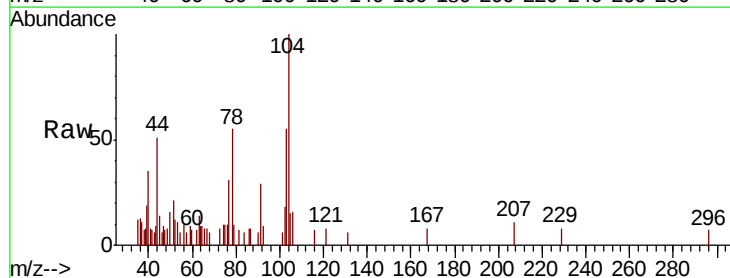
Acq: 23 Dec 2019 16:23

Tgt Ion:104 Resp: 3609

Ion Ratio Lower Upper

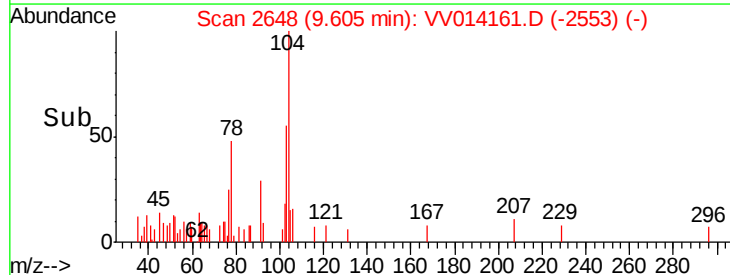
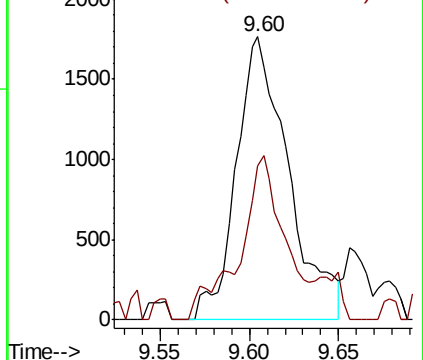
104 100

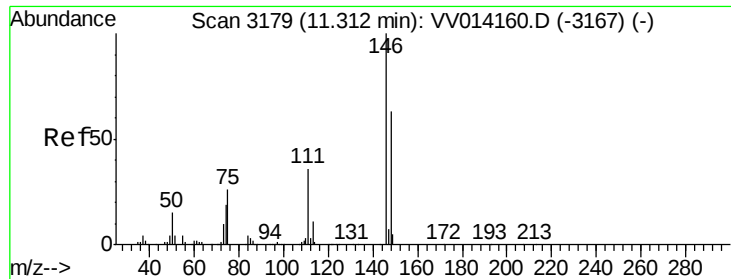
78 54.6 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#63

1,4-Dichlorobenzene

Concen: 0.084 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

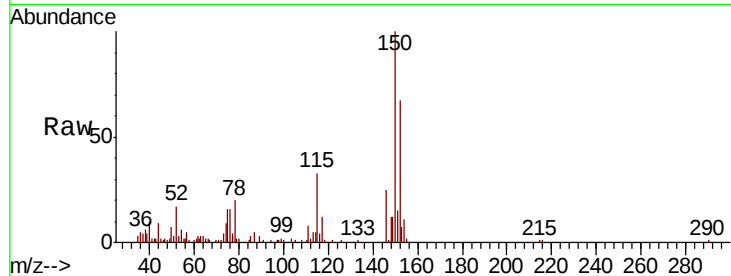
Tot Ion:146 Resp: 4068

Ion Ratio Lower Upper

146 100

111 33.5 25.7 47.7

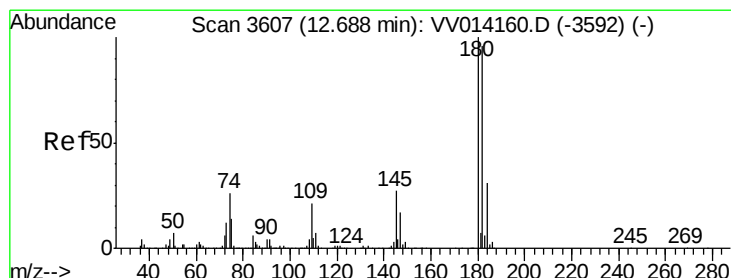
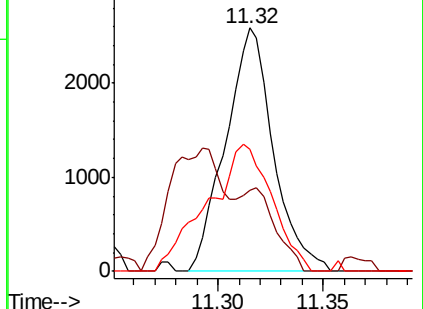
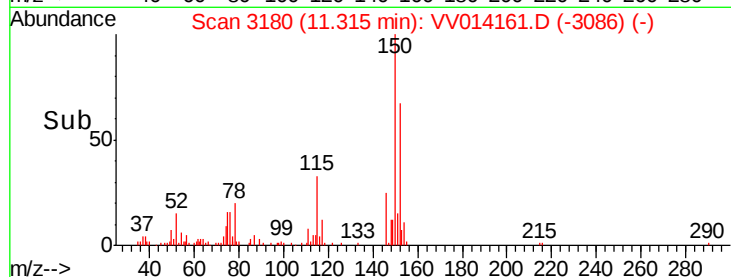
148 50.1 45.1 83.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.078 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. 0.01 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

Tgt Ion:180 Resp: 3061

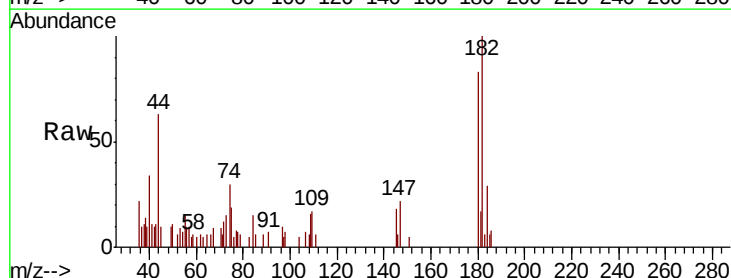
Ion Ratio Lower Upper

180 100

182 105.0 75.9 113.9

184 30.7 24.4 36.6

145 25.9 21.8 32.6

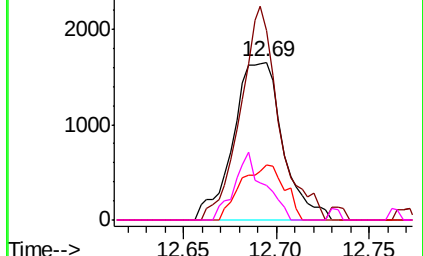
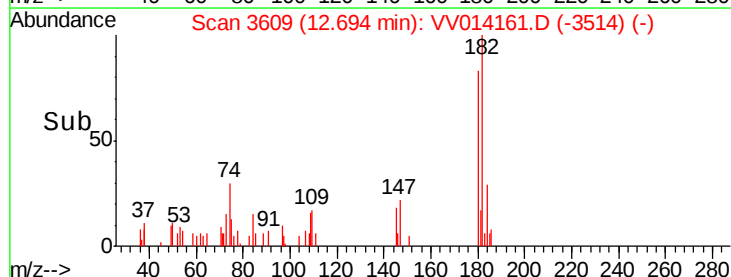


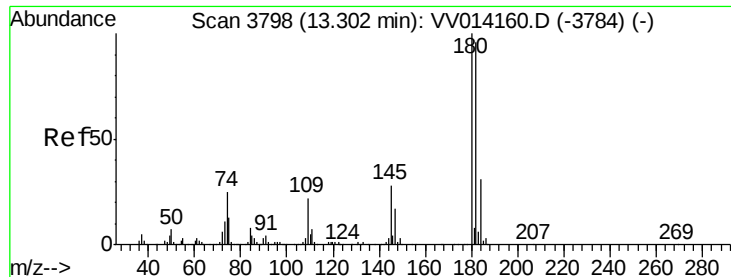
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#68

1,2,4-trichlorobenzene

Concen: 0.094 ug/L

RT: 13.30 min Scan# 3798

Delta R.T. 0.00 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

Instrument :

MSVOA_V

ClientSampled :

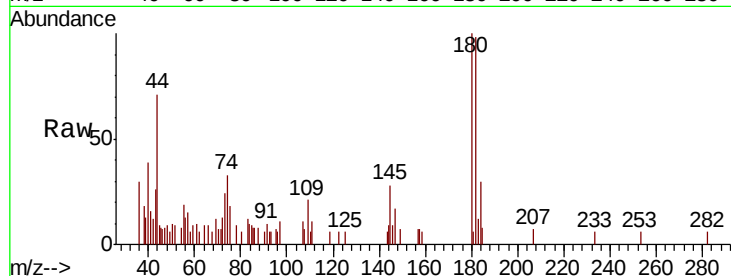
Tot Ion:180 Resp: 3031

Ion Ratio Lower Upper

180 100

182 107.5 76.9 115.3

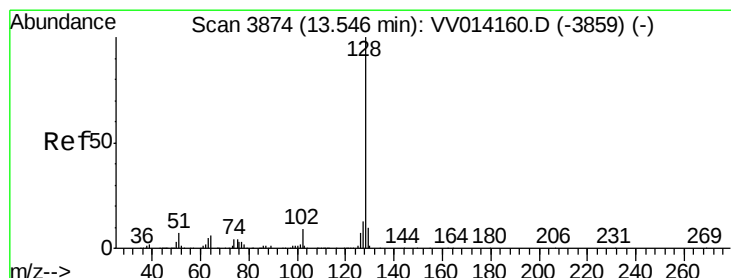
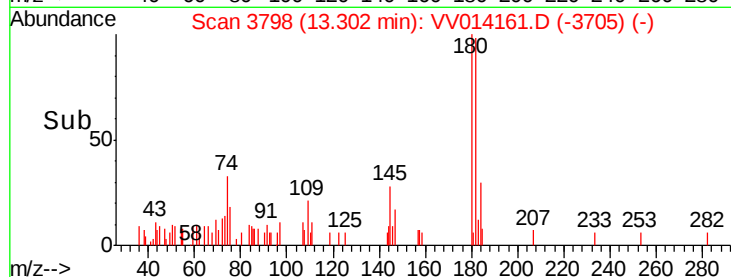
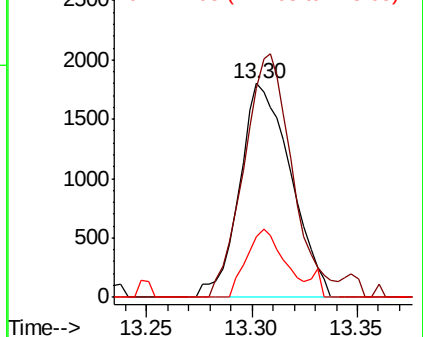
145 23.6 22.0 33.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V



#69

Naphthalene

Concen: 0.094 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.01 min

Lab File: VV014161.D

Acq: 23 Dec 2019 16:23

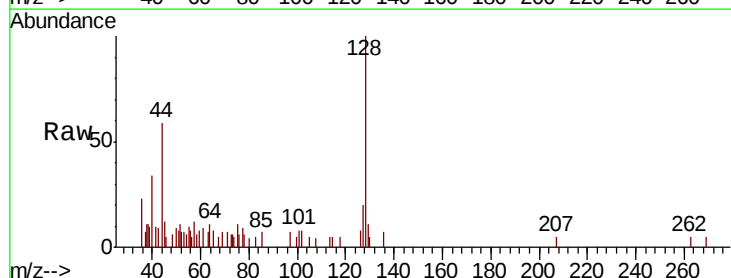
Tgt Ion:128 Resp: 3964

Ion Ratio Lower Upper

128 100

129 9.3 8.6 12.8

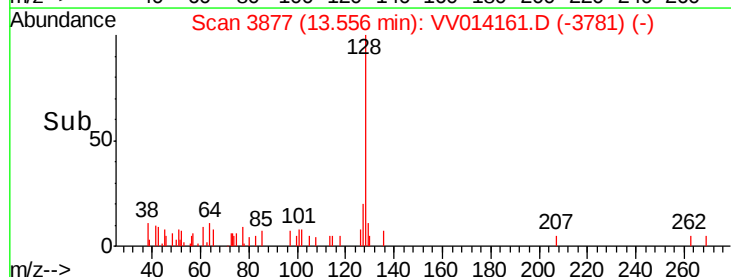
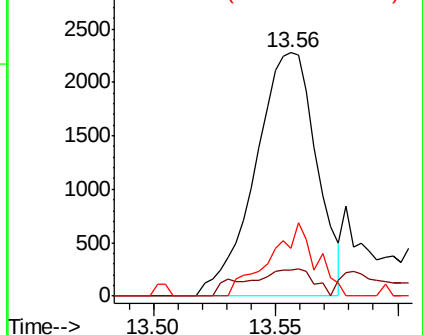
127 22.8 10.8 16.2#

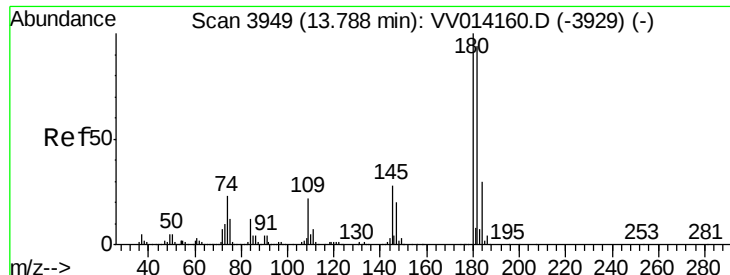


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

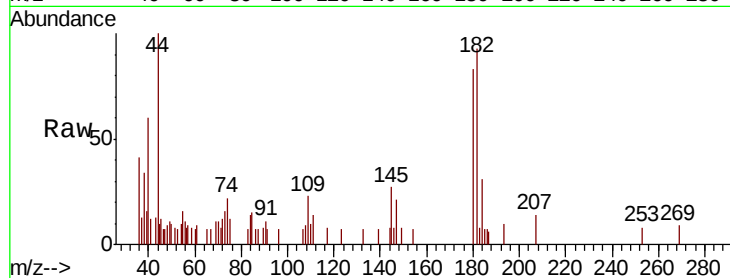




#70
 1,2,3-Trichlorobenzene
 Concen: 0.085 ug/L
 RT: 13.79 min Scan# 3951
 Delta R.T. 0.01 min
 Lab File: VV014161.D
 Acq: 23 Dec 2019 16:23

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	106.2	75.4	113.0
145	34.7	23.4	35.2



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

