

Data File : VV013920.D
Acq On : 05 Dec 2019 17:11
Operator : SY/MD
Sample : K6165-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
DBBW5

Quant Time: Dec 06 04:10:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 06 04:06:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	558059	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	541257	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	234010	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	54374	16.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	33.70%#
7) Chloroethane-d5	1.55	69	144775	42.97	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.94%
11) 1,1-Dichloroethene-d2	2.12	63	205365	28.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	57.54%#
21) 2-Butanone-d5	3.92	46	252296	111.06	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.06%
24) Chloroform-d	4.39	84	339436	50.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.16%
26) 1,2-Dichloroethane-d4	5.07	65	213959	49.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.64%
32) Benzene-d6	5.09	84	650595	46.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.78%
36) 1,2-Dichloropropane-d6	6.11	67	205128	48.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.44%
41) Toluene-d8	7.35	98	441805	34.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	69.10%#
43) trans-1,3-Dichloropropene-	7.66	79	87074	42.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.00%
47) 2-Hexanone-d5	8.13	63	163176	103.80	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.80%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	304865	50.01	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.02%
64) 1,2-Dichlorobenzene-d4	11.67	152	269328	58.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	117.20%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	4160	0.916 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	3085	0.735 ug/L #	21
13) Acetone	2.19	43	15150	4.551 ug/L	95
14) Carbon disulfide	2.31	76	6319	0.591 ug/L	98
25) Chloroform	4.42	83	131738	17.248 ug/L	96
35) Methylcyclohexane	6.11	83	51711	7.972 ug/L #	19
38) Bromodichloromethane	6.55	83	56800	10.267 ug/L	94
40) 4-Methyl-2-pentanone	7.27	43	6887	1.358 ug/L #	80
46) Tetrachloroethene	8.02	164	3072	0.787 ug/L	87
48) 2-Hexanone	8.18	43	12577	3.099 ug/L #	71
49) Dibromochloromethane	8.29	129	17657	3.730 ug/L	97
59) 1,2,3-Trichloropropane	11.29	75	24194	4.583 ug/L	97
62) 1,3-Dichlorobenzene	11.22	146	5090	0.663 ug/L	96
63) 1,4-Dichlorobenzene	11.32	146	5891	0.742 ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	5995	0.781 ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.49	75	1275	1.194 ug/L #	82
67) 1,3,5-Trichlorobenzene	13.31	180	7658	1.228 ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120519\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Fri Dec 06 04:06:40 2019
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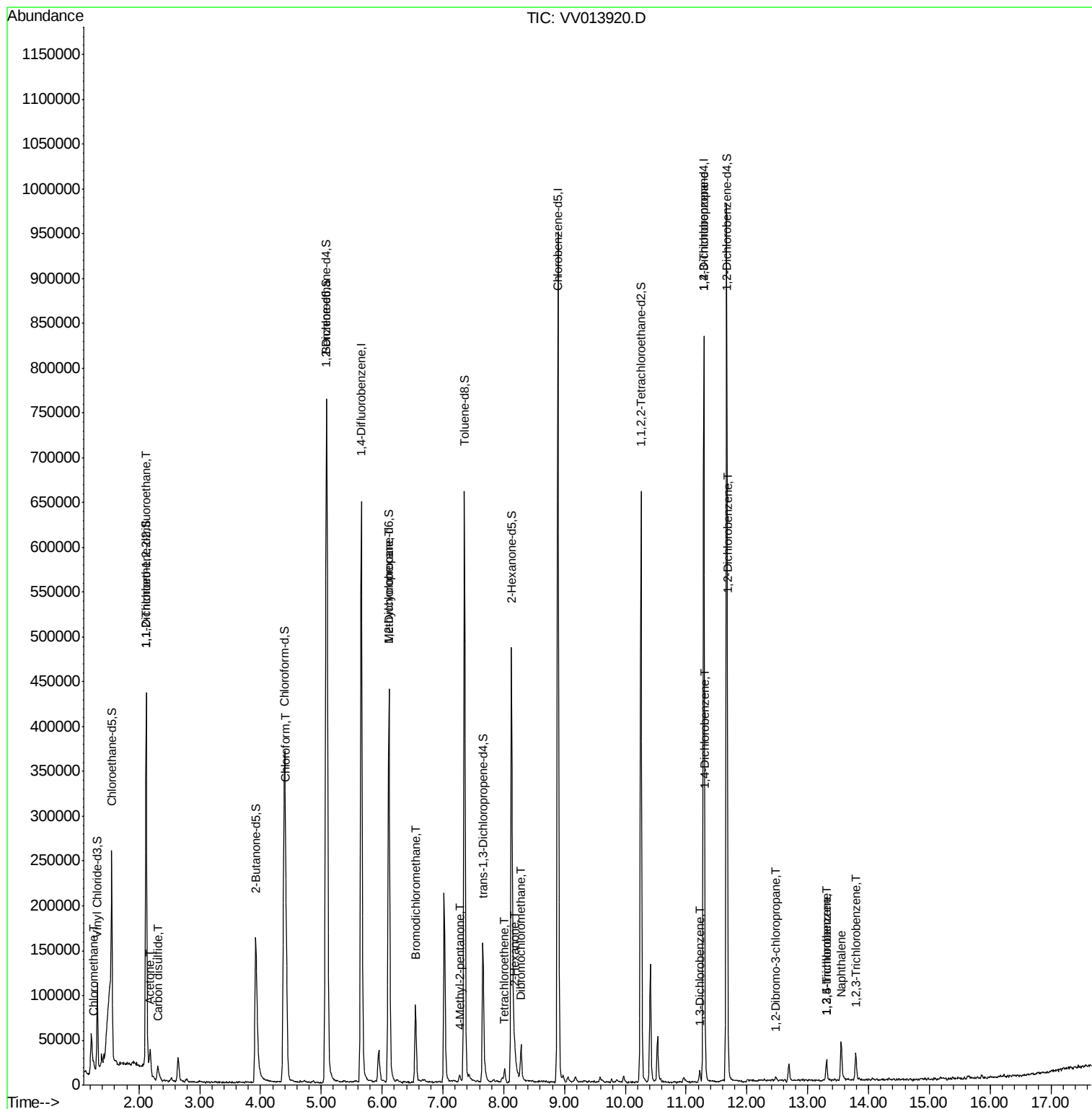
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.31	180	7658	1.361	ug/L	97
69) Naphthalene	13.55	128	35842	2.426	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	10336	1.757	ug/L	98

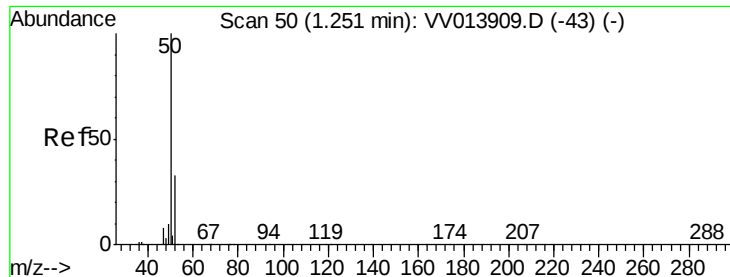
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.916 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

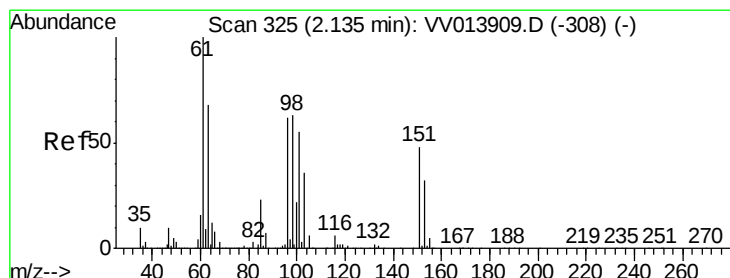
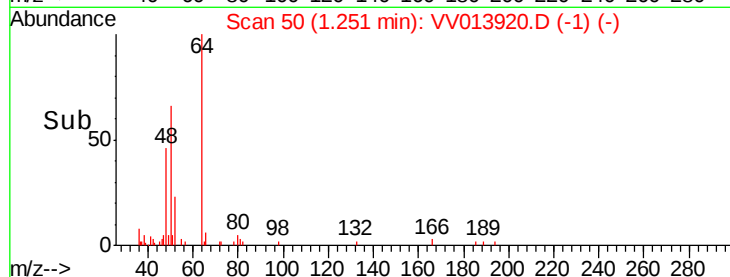
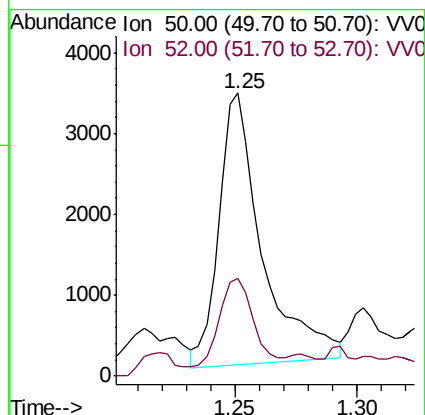
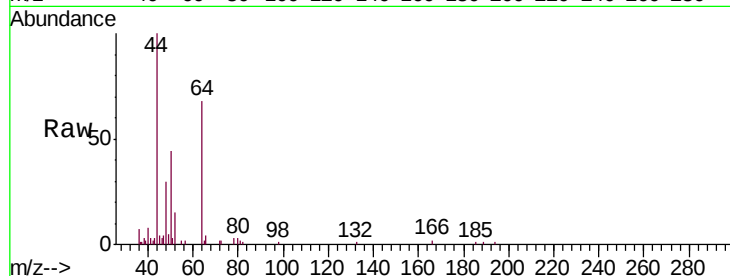
DBBW5

Tgt Ion: 50 Resp: 4160

Ion Ratio Lower Upper

50 100

52 34.7 23.0 42.6



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.735 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

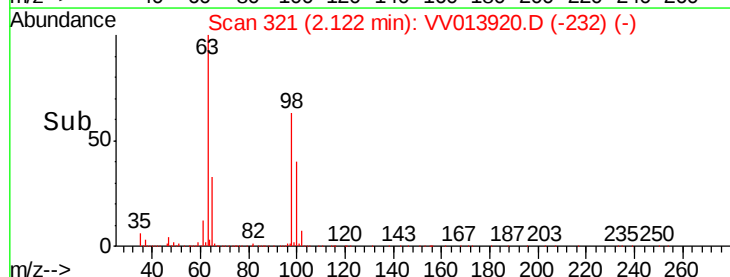
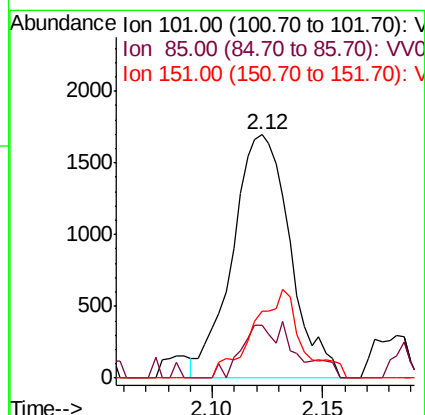
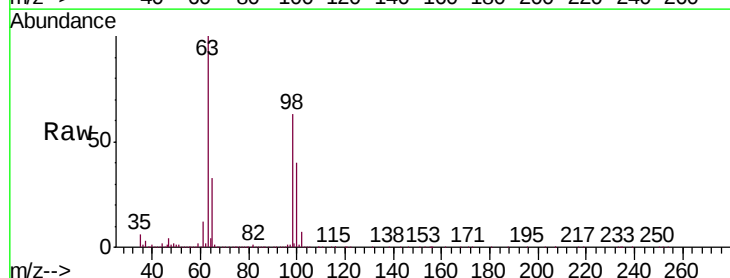
Tgt Ion: 101 Resp: 3085

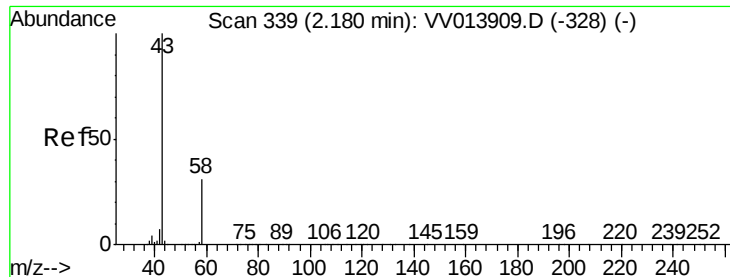
Ion Ratio Lower Upper

101 100

85 11.9 32.5 48.7#

151 0.0 69.8 104.6#





#13

Acetone

Concen: 4.551 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

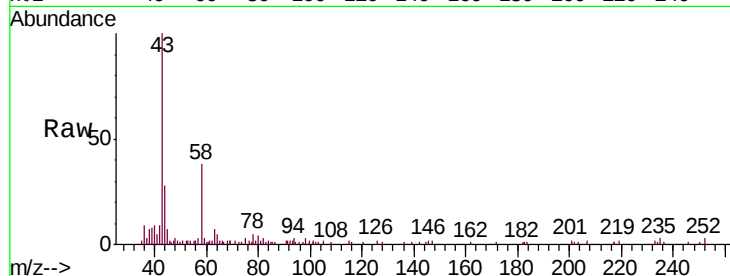
DBBW5

Tgt Ion: 43 Resp: 15150

Ion Ratio Lower Upper

43 100

58 33.0 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV013909.D (-328) (-)

Ion 58.00 (57.70 to 58.70): VV013909.D (-328) (-)

12000

10000

8000

6000

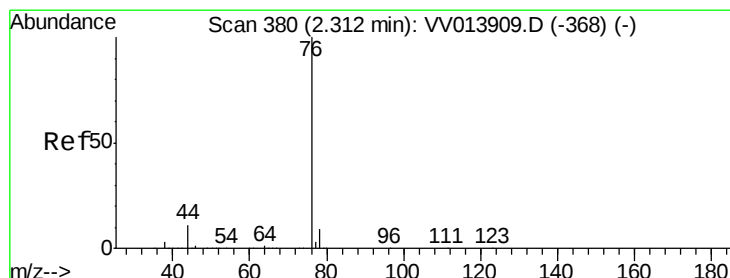
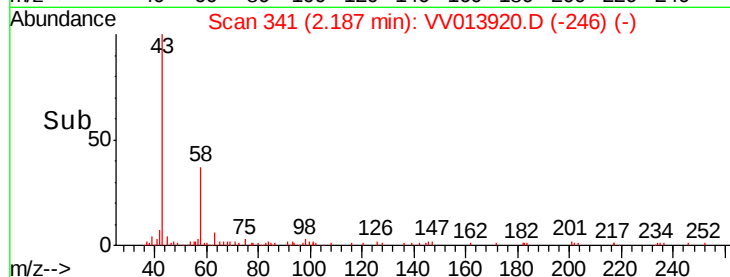
4000

2000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 0.591 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV013920.D

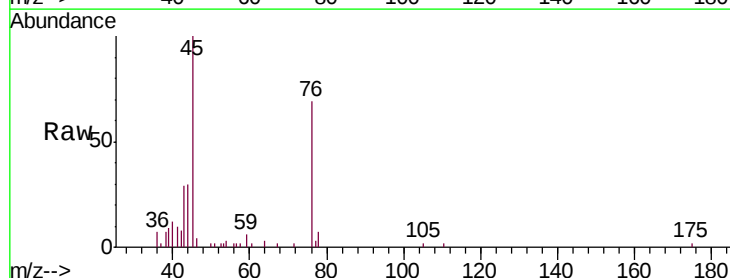
Acq: 05 Dec 2019 17:11

Tgt Ion: 76 Resp: 6319

Ion Ratio Lower Upper

76 100

78 9.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV013909.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV013909.D (-368) (-)

5000

4000

3000

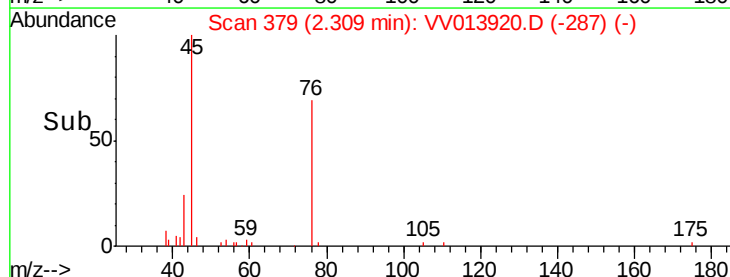
2000

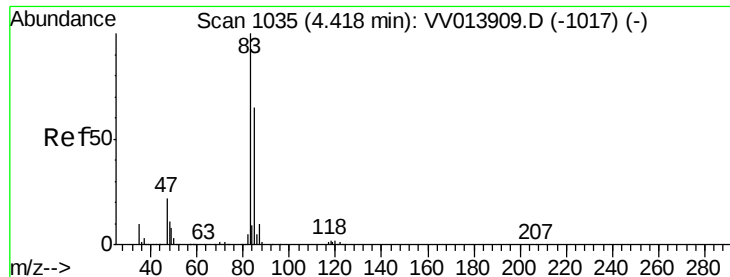
1000

0

2.25 2.30 2.35

Time-->





#25

Chloroform

Concen: 17.248 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

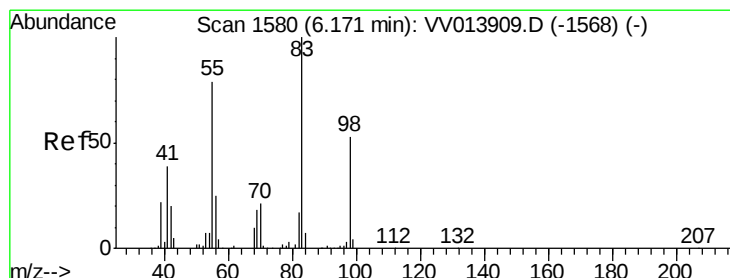
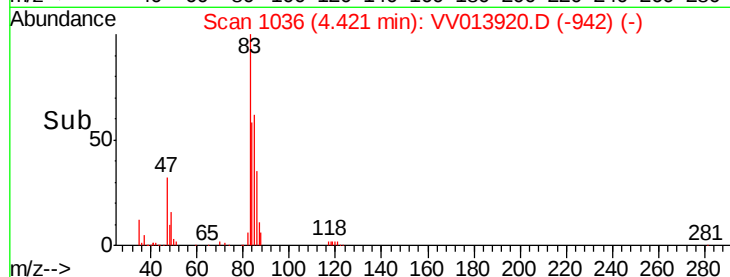
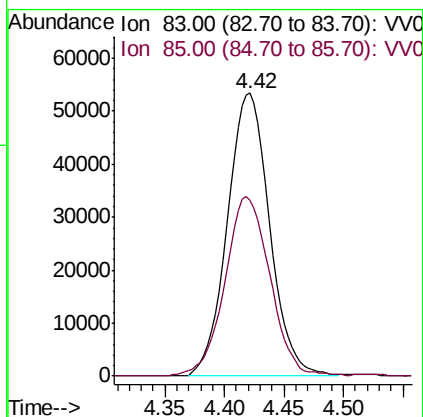
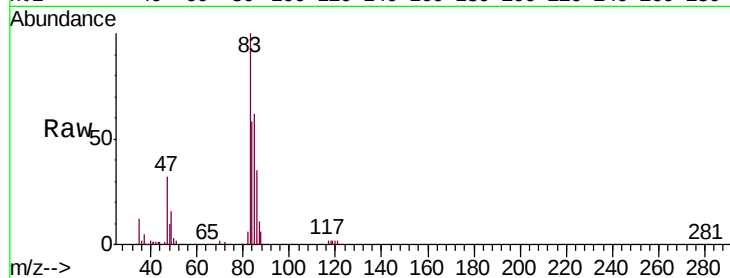
DBBW5

Tgt Ion: 83 Resp: 131738

Ion Ratio Lower Upper

83 100

85 62.2 45.7 84.9



#35

Methylcyclohexane

Concen: 7.972 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.06 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

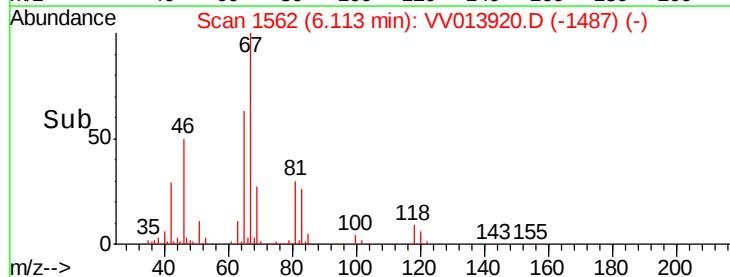
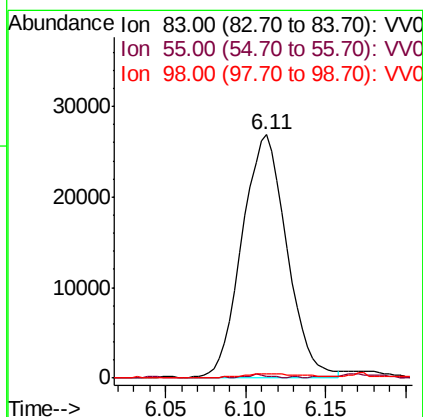
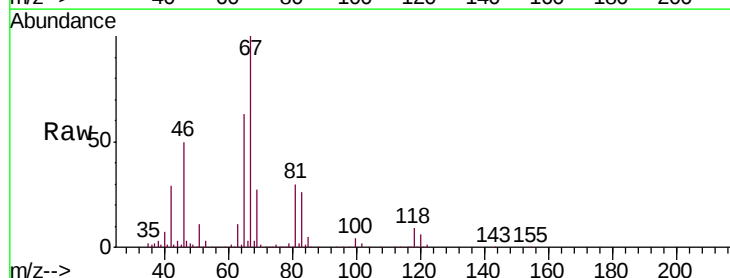
Tgt Ion: 83 Resp: 51711

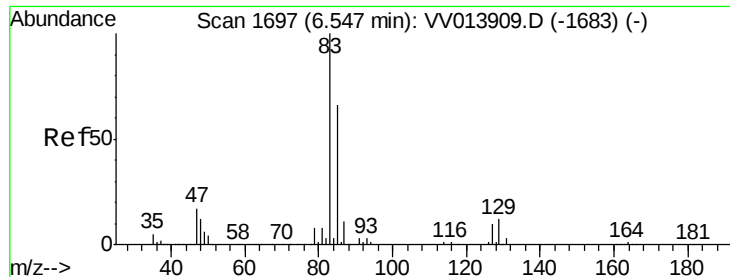
Ion Ratio Lower Upper

83 100

55 0.7 61.0 91.4#

98 1.7 39.6 59.4#





#38

Bromodichloromethane

Concen: 10.267 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

DBBW5

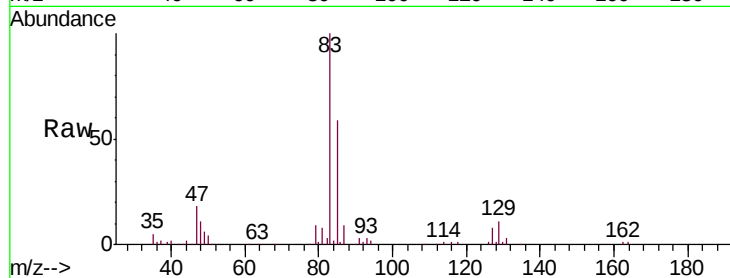
Tgt Ion: 83 Resp: 56800

Ion Ratio Lower Upper

83 100

85 59.4 44.8 83.2

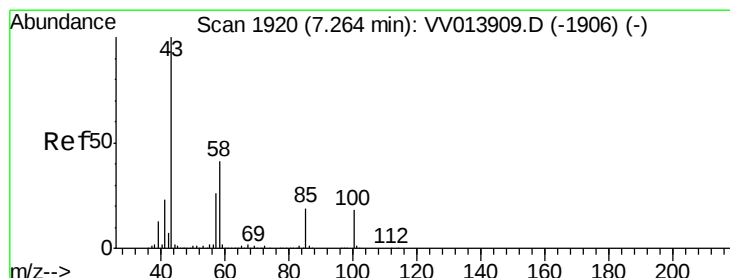
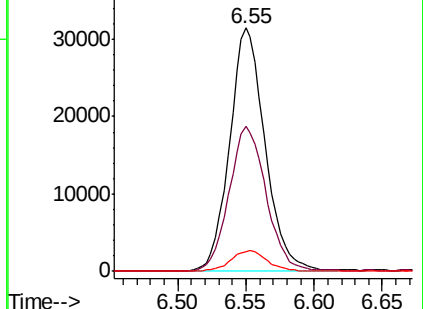
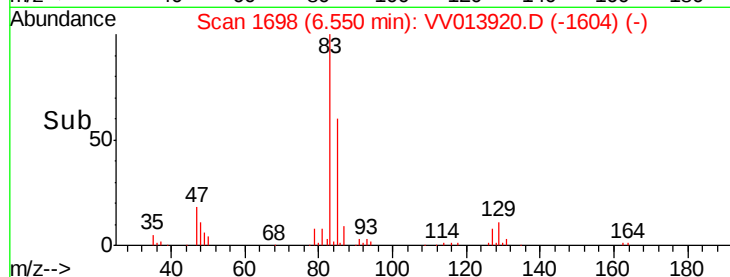
127 8.2 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VV013920.D (-1698) (-)

Ion 85.00 (84.70 to 85.70): VV013920.D (-1698) (-)

Ion 127.00 (126.70 to 127.70): VV013920.D (-1698) (-)



#40

4-Methyl-2-pentanone

Concen: 1.358 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. 0.01 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

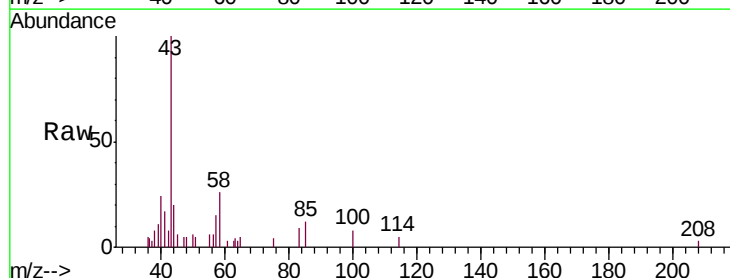
Tgt Ion: 43 Resp: 6887

Ion Ratio Lower Upper

43 100

58 26.3 31.9 47.9#

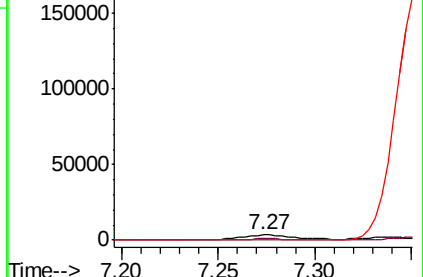
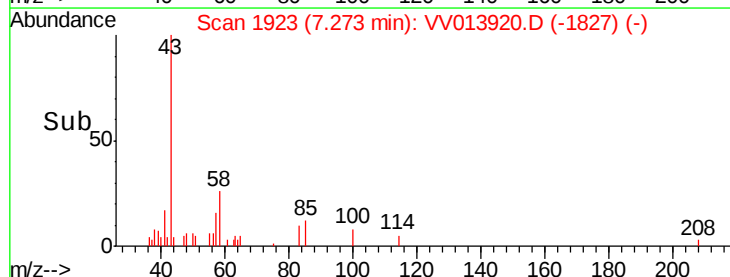
100 9.8 13.7 20.5#

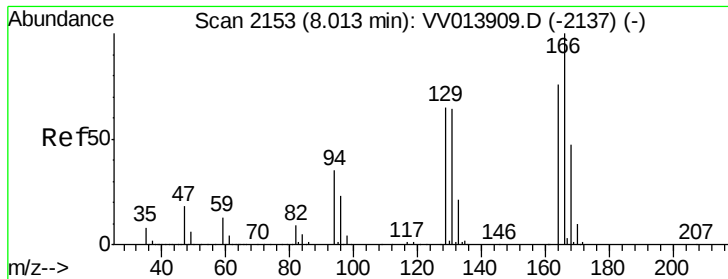


Abundance Ion 43.00 (42.70 to 43.70): VV013920.D (-1923) (-)

Ion 58.00 (57.70 to 58.70): VV013920.D (-1923) (-)

Ion 100.00 (99.70 to 100.70): VV013920.D (-1923) (-)

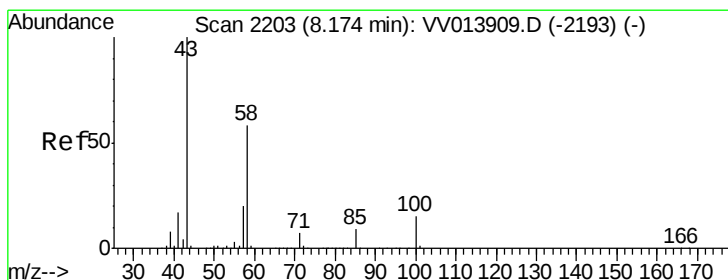
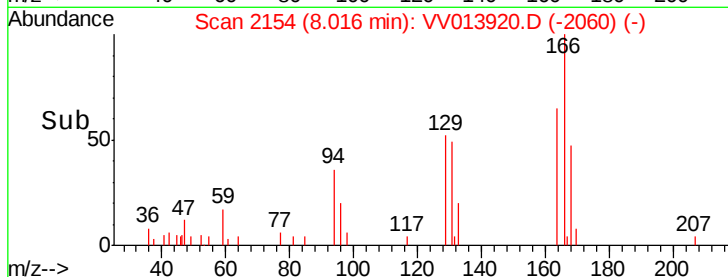
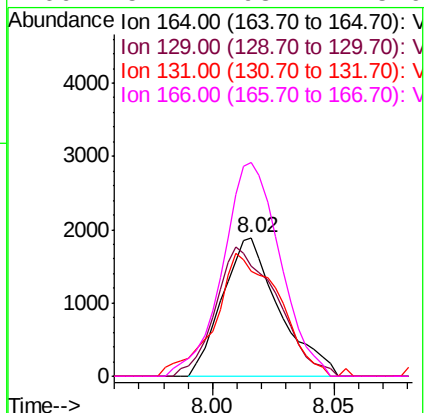
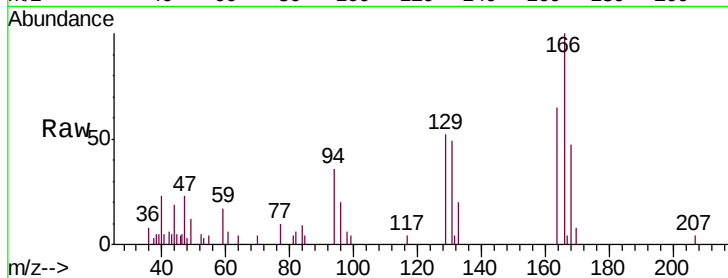




#46
Tetrachloroethene
Concen: 0.787 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV013920.D
Acq: 05 Dec 2019 17:11

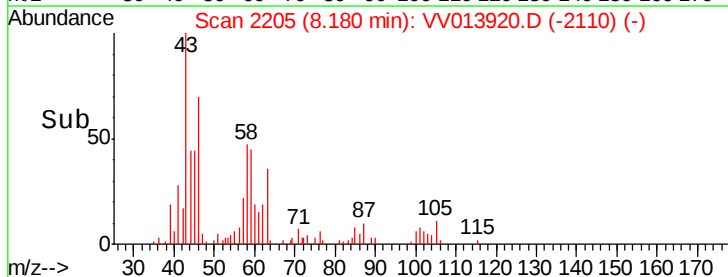
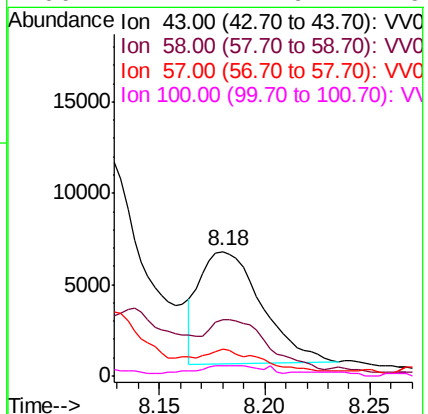
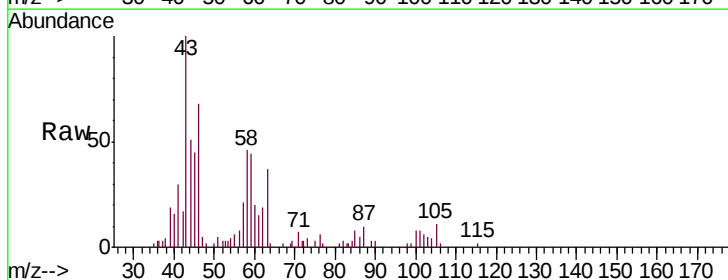
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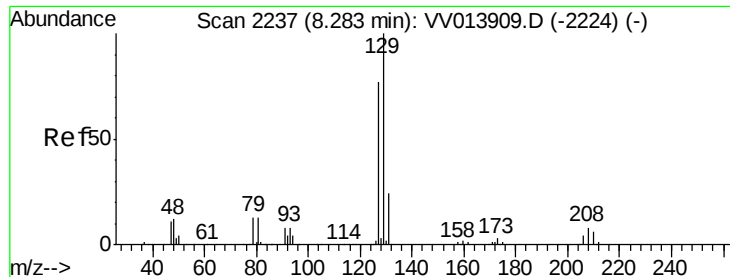
Tgt Ion:164 Resp: 3072
Ion Ratio Lower Upper
164 100
129 79.4 61.7 114.7
131 75.7 58.4 108.6
166 154.1 93.4 173.6



#48
2-Hexanone
Concen: 3.099 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VV013920.D
Acq: 05 Dec 2019 17:11

Tgt Ion: 43 Resp: 12577
Ion Ratio Lower Upper
43 100
58 40.4 48.4 72.6#
57 3.7 16.6 24.8#
100 2.1 11.9 17.9#





#49

Dibromochloromethane

Concen: 3.730 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

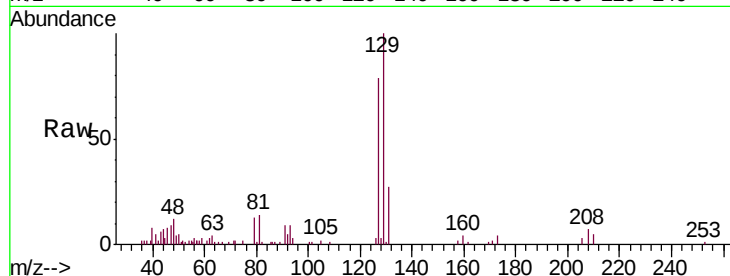
DBBW5

Tgt Ion:129 Resp: 17657

Ion Ratio Lower Upper

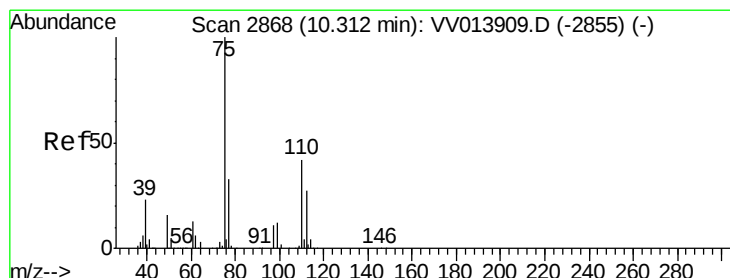
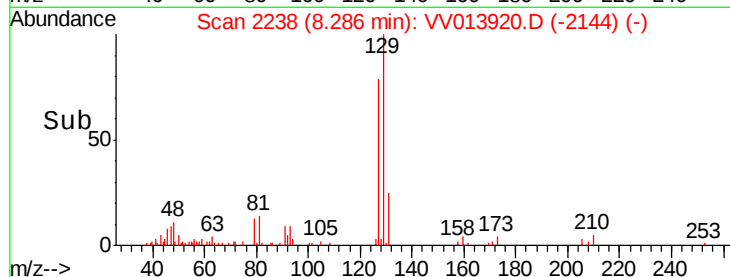
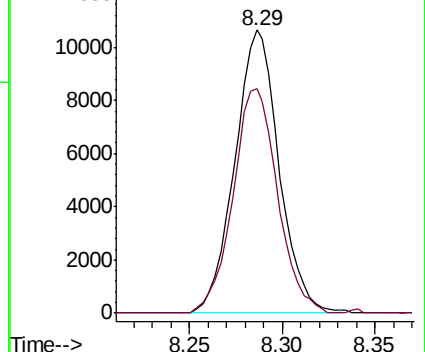
129 100

127 79.4 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 4.583 ug/L

RT: 11.29 min Scan# 3172

Delta R.T. 0.98 min

Lab File: VV013920.D

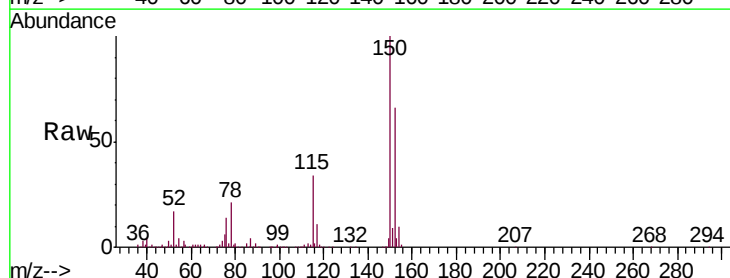
Acq: 05 Dec 2019 17:11

Tgt Ion: 75 Resp: 24194

Ion Ratio Lower Upper

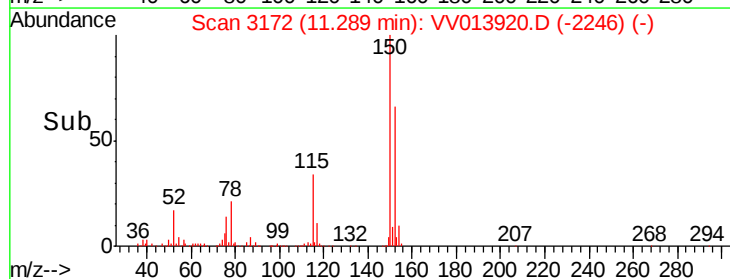
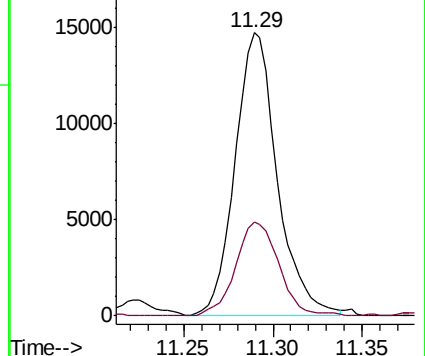
75 100

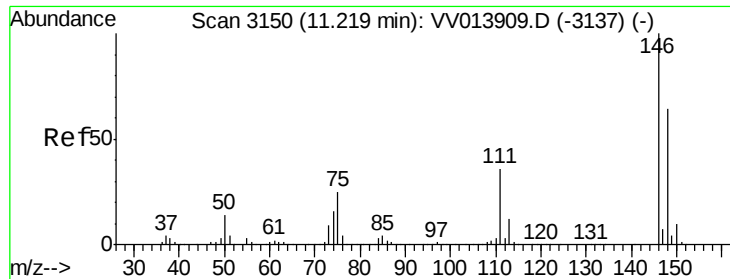
77 33.8 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#62

1,3-Dichlorobenzene

Concen: 0.663 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.01 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

DBBW5

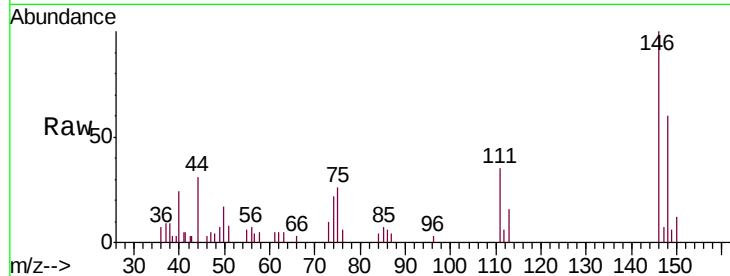
Tgt Ion:146 Resp: 5090

Ion Ratio Lower Upper

146 100

111 35.5 25.8 48.0

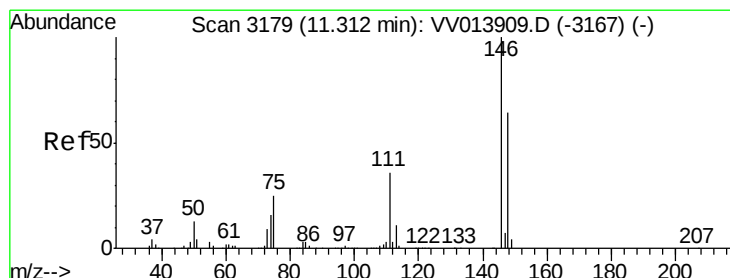
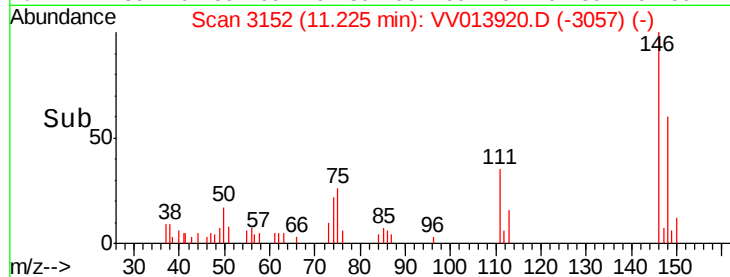
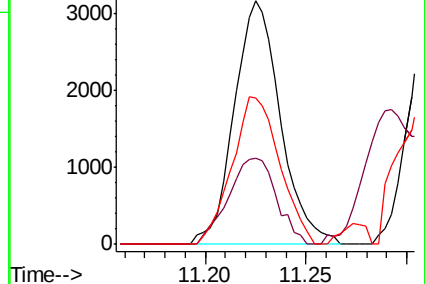
148 60.3 45.2 84.0



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



#63

1,4-Dichlorobenzene

Concen: 0.742 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

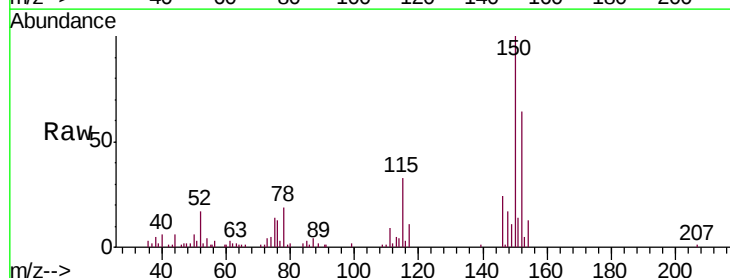
Tgt Ion:146 Resp: 5891

Ion Ratio Lower Upper

146 100

111 37.8 25.4 47.2

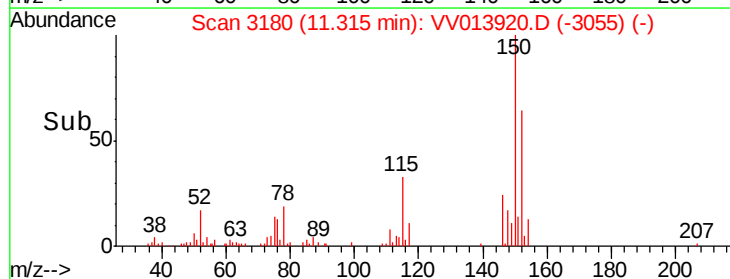
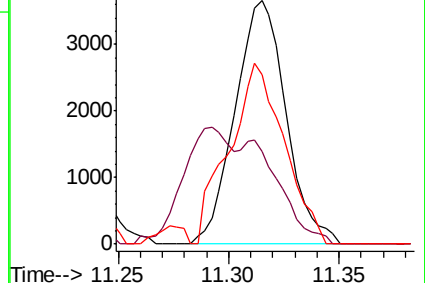
148 69.4 44.9 83.5

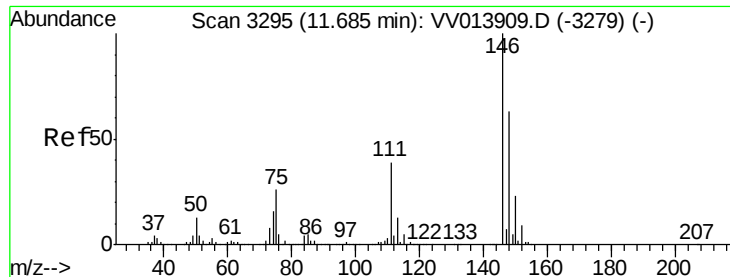


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.781 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

DBBW5

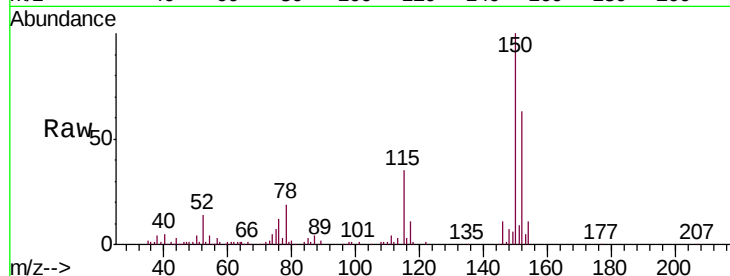
Tgt Ion: 146 Resp: 5995

Ion Ratio Lower Upper

146 100

111 38.6 31.4 47.0

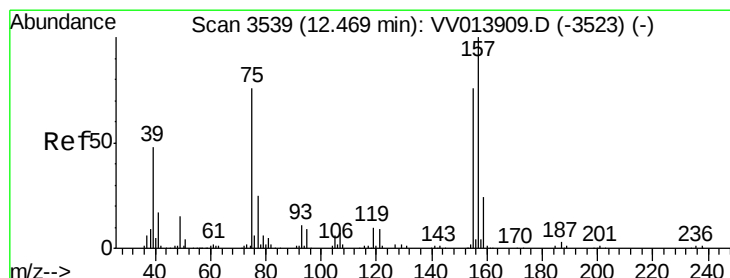
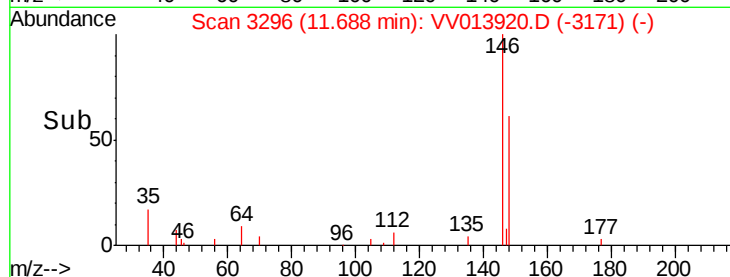
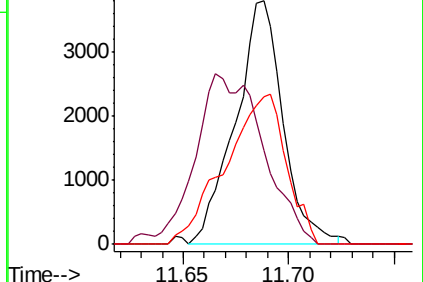
148 60.8 51.5 77.3



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



#66

1,2-Dibromo-3-chloropropane

Concen: 1.194 ug/L

RT: 12.49 min Scan# 3544

Delta R.T. 0.02 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

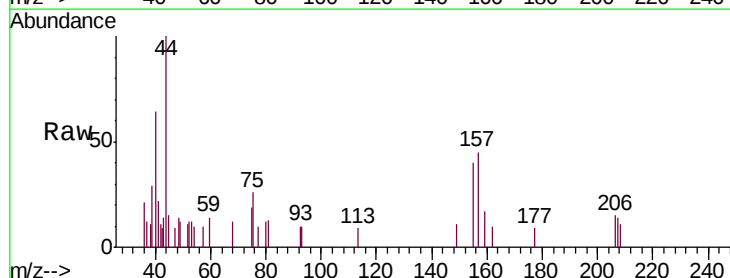
Tgt Ion: 75 Resp: 1275

Ion Ratio Lower Upper

75 100

155 89.1 78.6 117.8

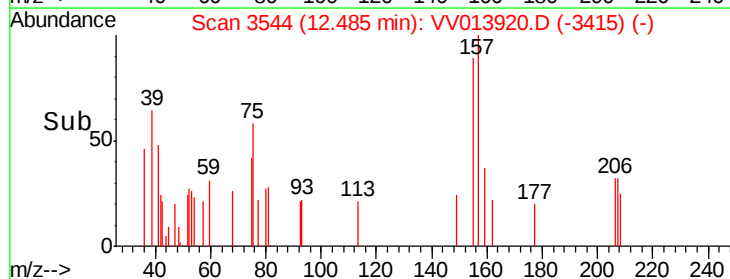
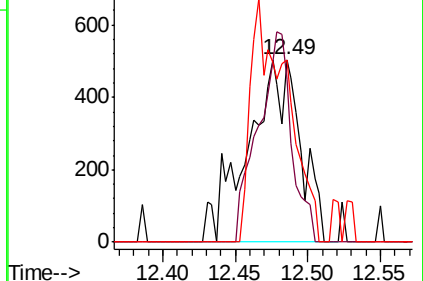
157 99.6 102.6 153.8#

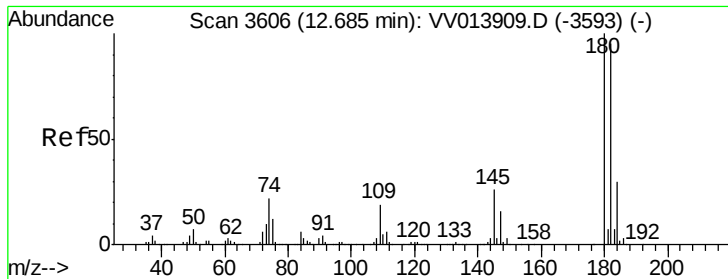


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

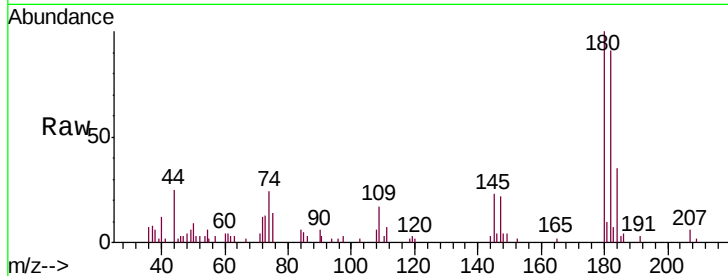




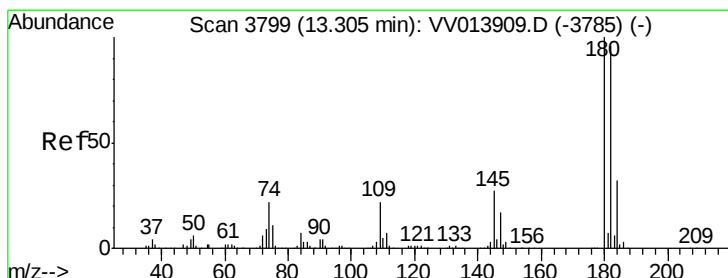
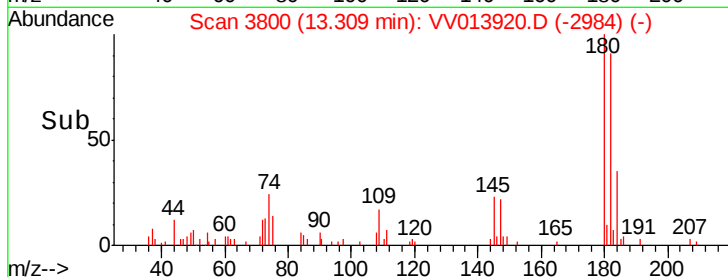
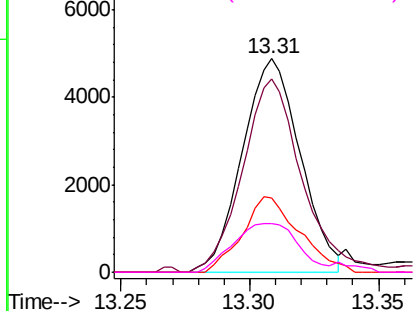
#67
 1,3,5-Trichlorobenzene
 Concen: 1.228 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.62 min
 Lab File: VV013920.D
 Acq: 05 Dec 2019 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 DBBW5

Tgt Ion:180 Resp: 7658
 Ion Ratio Lower Upper
 180 100
 182 92.7 76.2 114.4
 184 34.6 24.2 36.4
 145 25.6 21.1 31.7

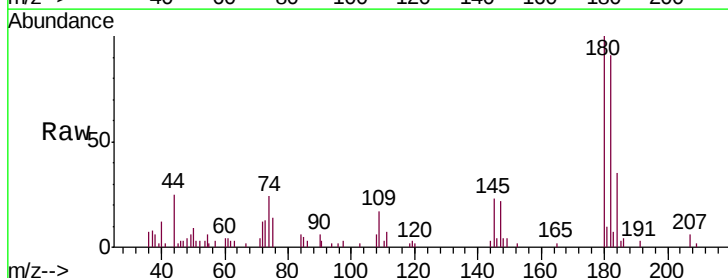


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

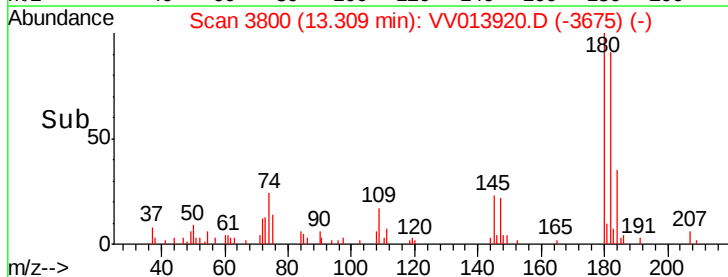
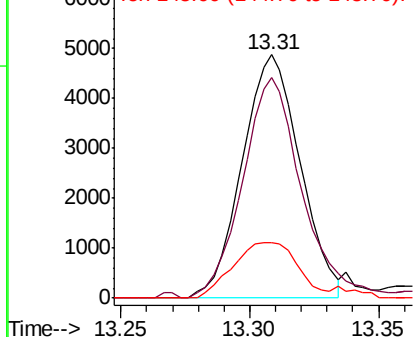


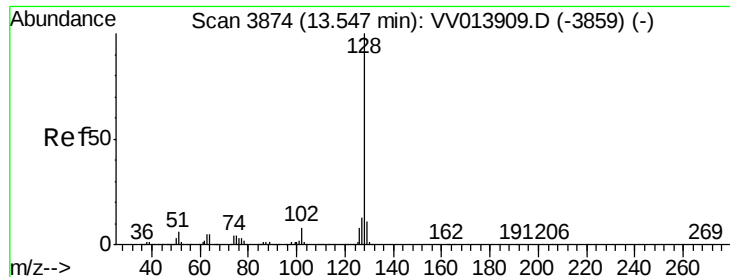
#68
 1,2,4-trichlorobenzene
 Concen: 1.361 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013920.D
 Acq: 05 Dec 2019 17:11

Tgt Ion:180 Resp: 7658
 Ion Ratio Lower Upper
 180 100
 182 92.7 76.2 114.4
 145 25.6 21.9 32.9



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 2.426 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

DBBW5

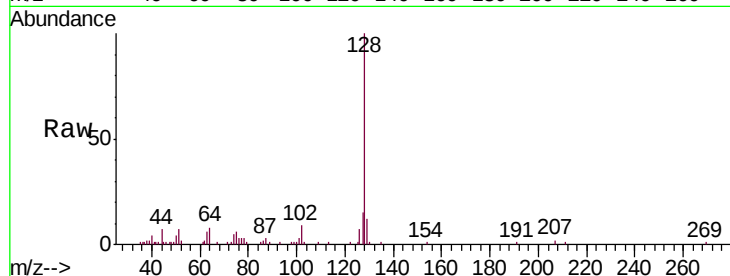
Tgt Ion:128 Resp: 35842

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

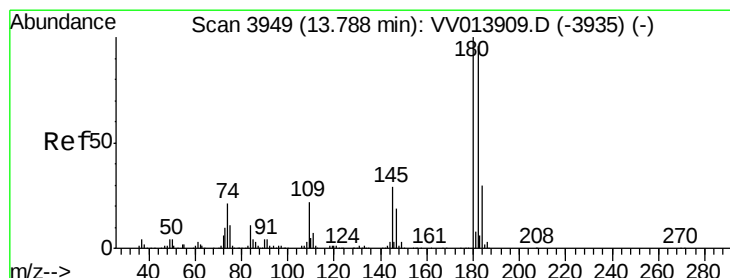
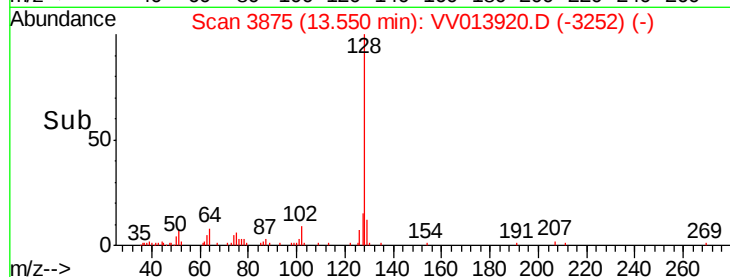
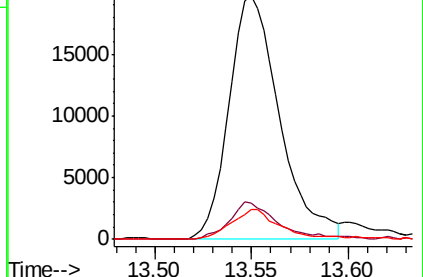
129 11.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.757 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013920.D

Acq: 05 Dec 2019 17:11

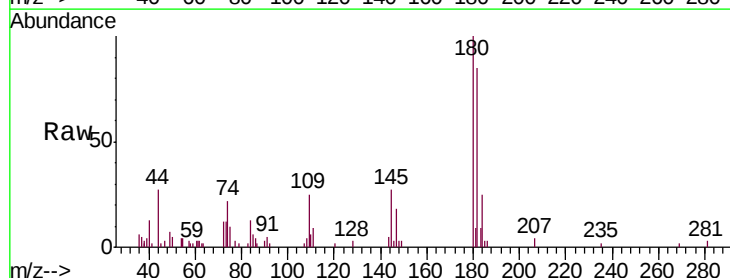
Tgt Ion:180 Resp: 10336

Ion Ratio Lower Upper

180 100

182 93.5 77.0 115.4

145 28.5 22.6 34.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

