

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\
 Data File : VV014947.D
 Acq On : 16 Mar 2020 15:42
 Operator : SY/MD
 Sample : L1890-12
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DD2

Quant Time: Mar 18 03:20:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Mar 18 03:17:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	366709	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	367948	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	201180	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	108907	44.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.16%
7) Chloroethane-d5	1.58	69	82691	45.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.14%
11) 1,1-Dichloroethene-d2	2.12	63	131583	35.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.22%
21) 2-Butanone-d5	3.93	46	121815	81.78	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	81.78%
24) Chloroform-d	4.38	84	219936	43.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.42%
26) 1,2-Dichloroethane-d4	5.06	65	146698	45.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.98%
32) Benzene-d6	5.08	84	464130	45.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.58%
36) 1,2-Dichloropropane-d6	6.10	67	137036	45.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.80%
41) Toluene-d8	7.34	98	460336	45.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.84%
43) trans-1,3-Dichloropropene-	7.64	79	70545	43.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.92%
47) 2-Hexanone-d5	8.12	63	126156	92.59	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.59%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	195246	44.18	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.36%
64) 1,2-Dichlorobenzene-d4	11.97	152	42	0.01	ug/L	0.33
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.02%#

Target Compounds

					Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1552	0.822 ug/L #	17
12) 1,1-Dichloroethene	2.12	96	1428	0.829 ug/L #	1
13) Acetone	2.20	43	1924	1.307 ug/L	96
25) Chloroform	4.40	83	12233	2.548 ug/L	91
27) 1,2-Dichloroethane	5.13	62	36436	10.070 ug/L #	75
31) Carbon tetrachloride	4.86	117	4857	1.245 ug/L	95
33) Benzene	5.13	78	4276975	427.175 ug/L	100
48) 2-Hexanone	8.12	43	14631	5.458 ug/L #	74
62) 1,3-Dichlorobenzene	11.20	146	1089539	164.344 ug/L	99
63) 1,4-Dichlorobenzene	11.30	146	6354708	951.554 ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	5956102	899.387 ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.41	75	24917	25.028 ug/L #	1
67) 1,3,5-Trichlorobenzene	12.67	180	10983	2.113 ug/L	96
68) 1,2,4-trichlorobenzene	13.28	180	4128799	891.189 ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	1041654	227.135 ug/L	100

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Quant Title : VOC Analysis
QLast Update : Wed Mar 18 03:17:46 2020
Response via : Initial Calibration

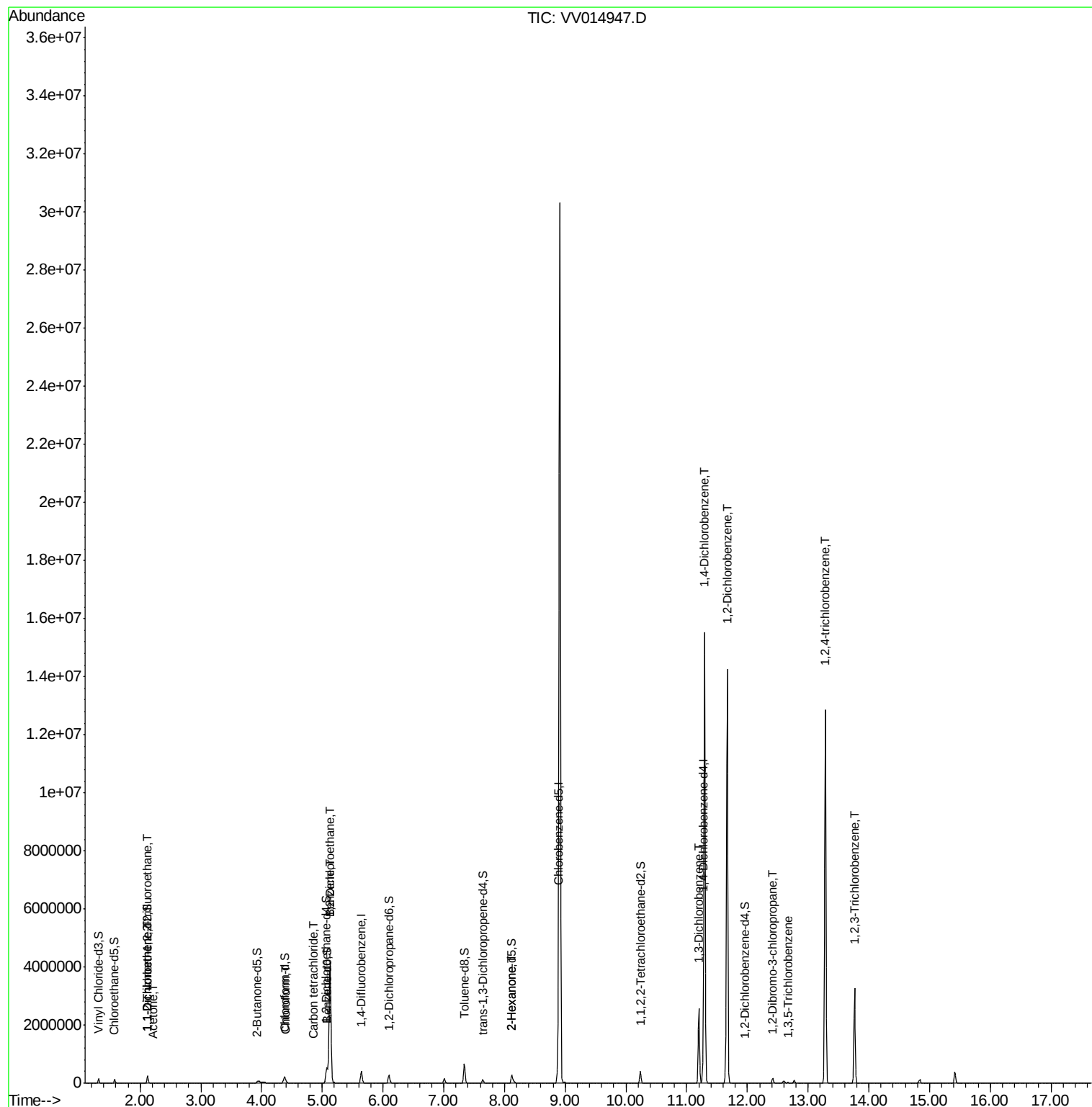
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

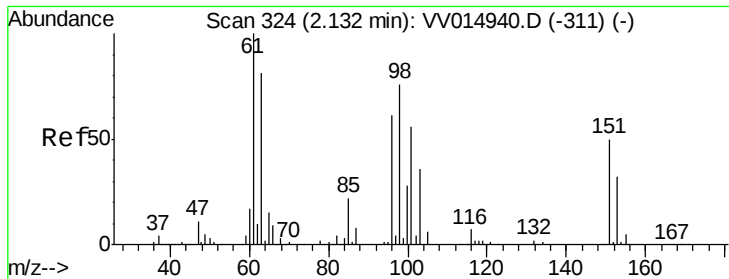
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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#10

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

Concen: 0.822 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

Instrument :

MSVOA_V

ClientSampled :

C0DD2

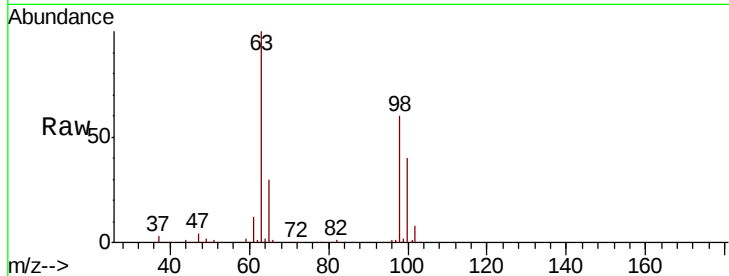
Tot Ion:101 Resp: 1552

Ion Ratio Lower Upper

101 100

85 0.0 33.9 50.9#

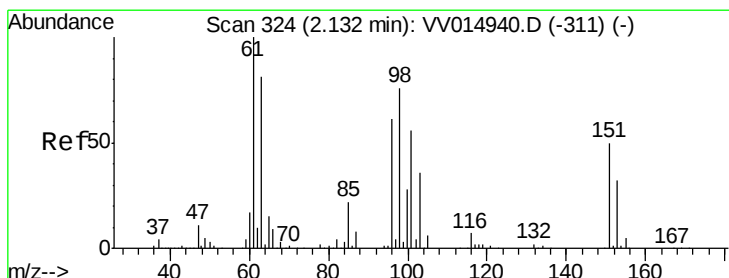
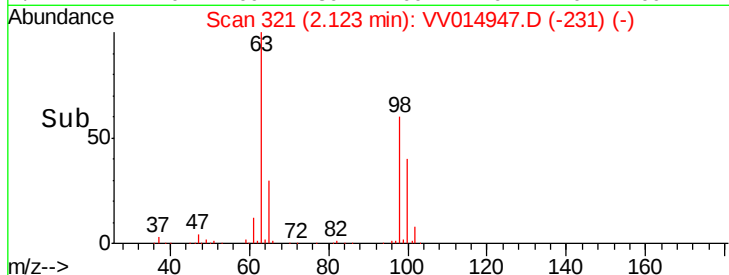
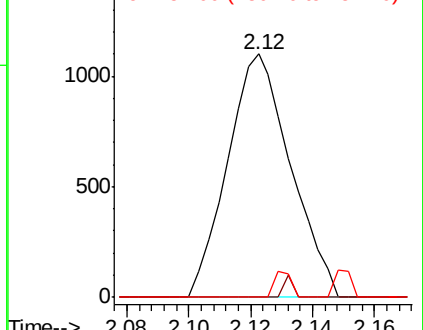
151 2.7 70.1 105.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.829 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

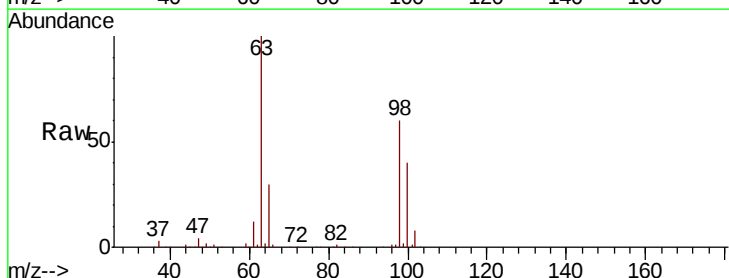
Tgt Ion: 96 Resp: 1428

Ion Ratio Lower Upper

96 100

61 1238.7 115.7 214.9#

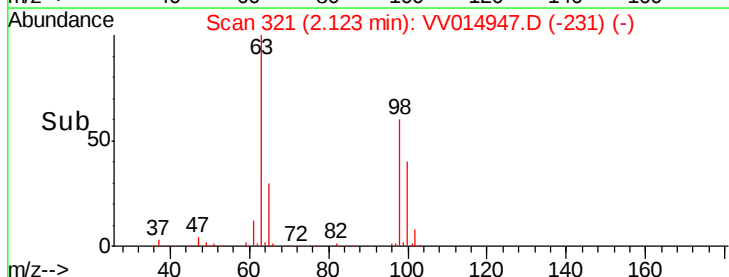
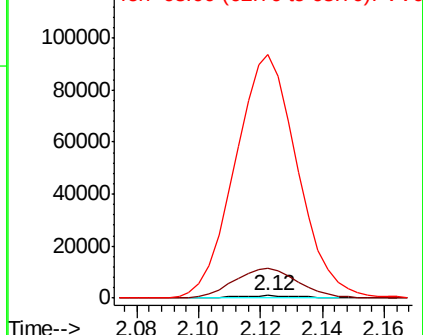
63 10166.3 99.2 184.2#

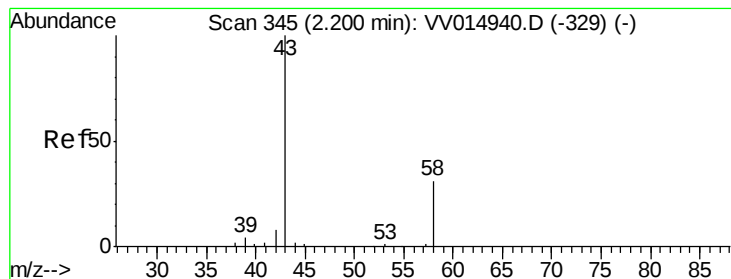


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1.307 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.00 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

Instrument :

MSVOA_V

ClientSampleId :

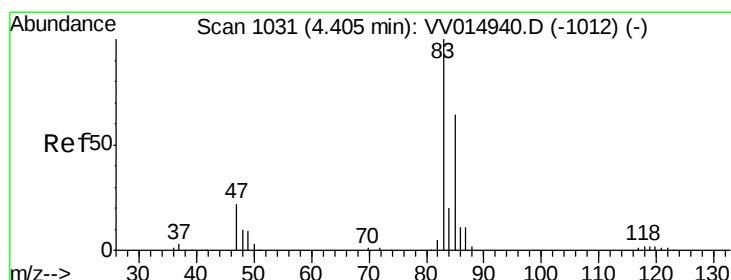
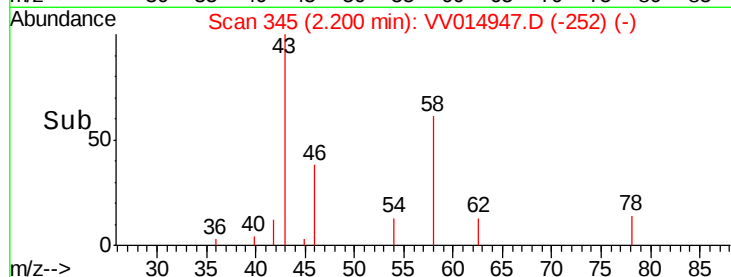
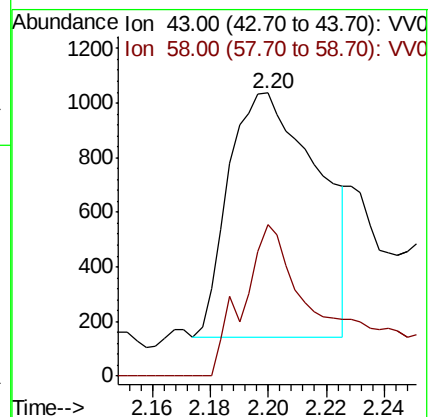
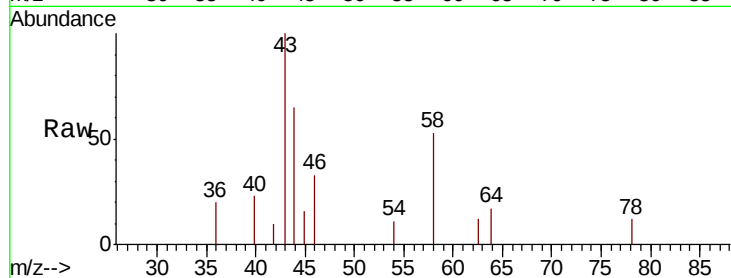
C0DD2

Tot Ion: 43 Resp: 1924

Ion Ratio Lower Upper

43 100

58 23.5 0.0 51.6



#25

Chloroform

Concen: 2.548 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV014947.D

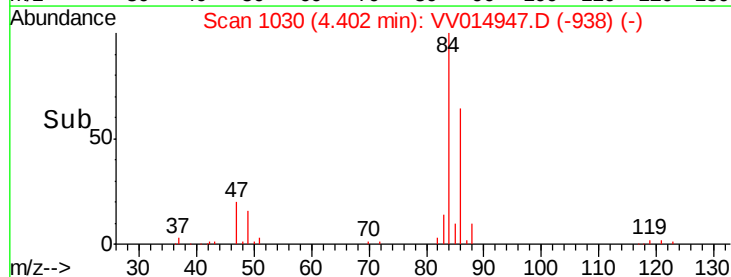
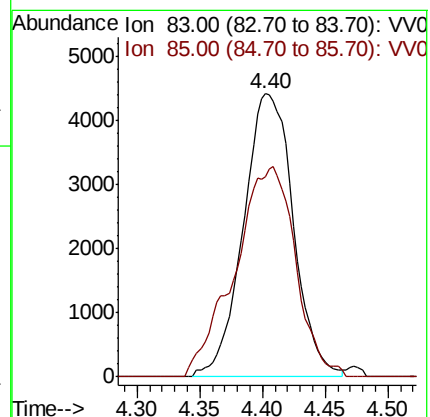
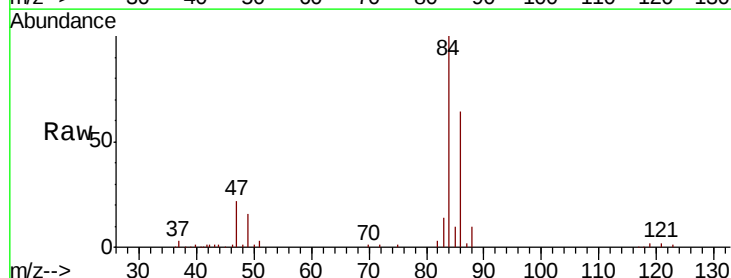
Acq: 16 Mar 2020 15:42

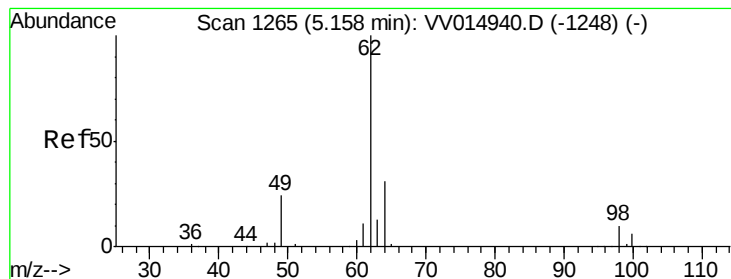
Tgt Ion: 83 Resp: 12233

Ion Ratio Lower Upper

83 100

85 70.6 44.6 82.8





#27

1,2-Dichloroethane

Concen: 10.070 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.03 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

Instrument :

MSVOA_V

ClientSampleId :

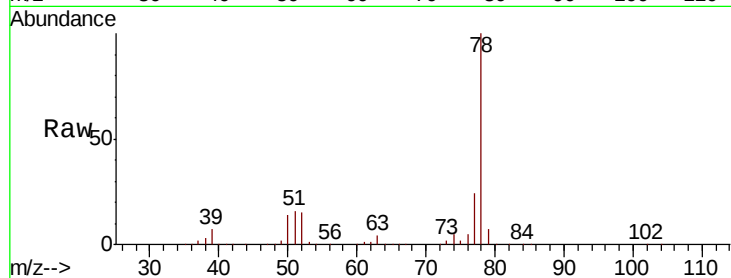
C0DD2

Tot Ion: 62 Resp: 36436

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



Abundance Ion 62.00 (61.70 to 62.70): VV014940.D (-1248) (-)

Ion 98.00 (97.70 to 98.70): VV014940.D (-1248) (-)

5.13

20000

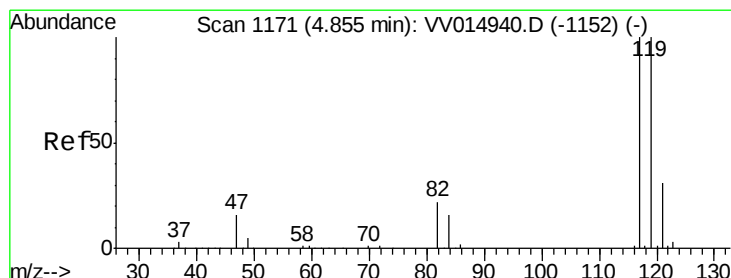
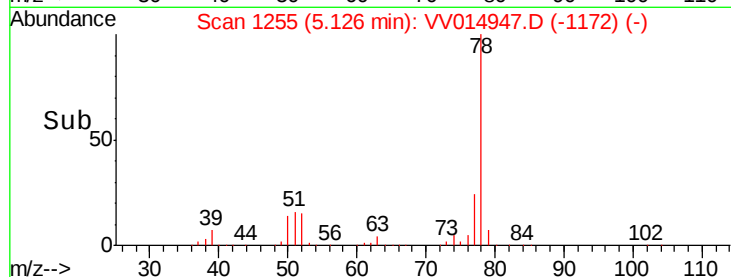
15000

10000

5000

0

Time-->



#31

Carbon tetrachloride

Concen: 1.245 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV014947.D

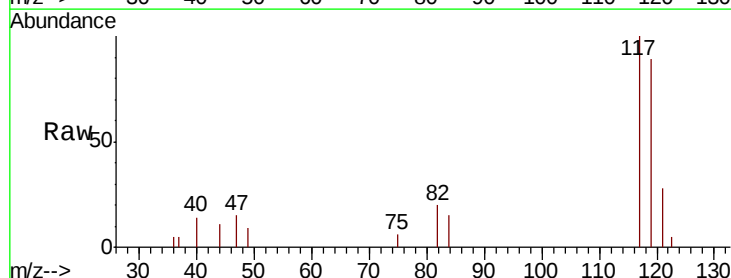
Acq: 16 Mar 2020 15:42

Tgt Ion: 117 Resp: 4857

Ion Ratio Lower Upper

117 100

119 100.1 75.9 113.9



Abundance Ion 117.00 (116.70 to 117.70): VV014940.D (-1152) (-)

Ion 119.00 (118.70 to 119.70): VV014940.D (-1152) (-)

4.86

2500

2000

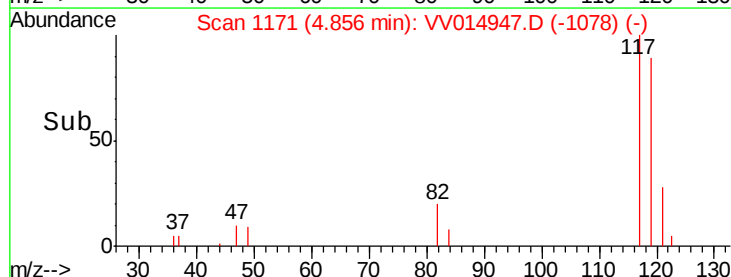
1500

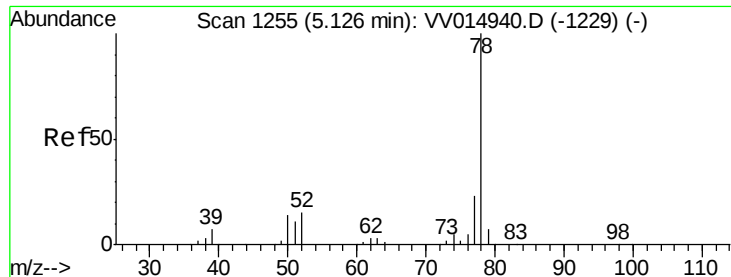
1000

500

0

Time-->

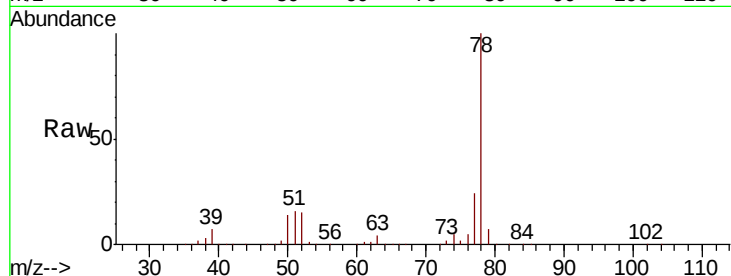




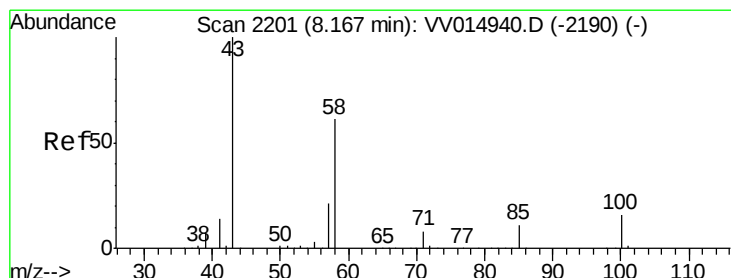
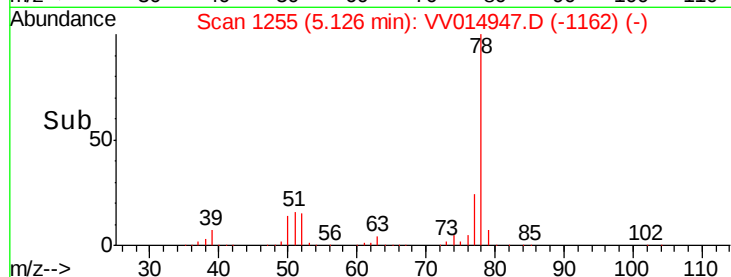
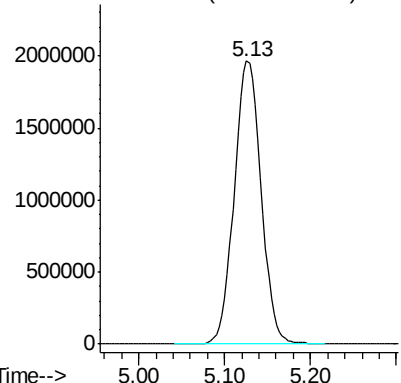
#33
Benzene
Concen: 427.175 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VV014947.D
Acq: 16 Mar 2020 15:42

Instrument :
MSVOA_V
ClientSampled :
C0DD2

Tgt Ion: 78 Resp: 4276975

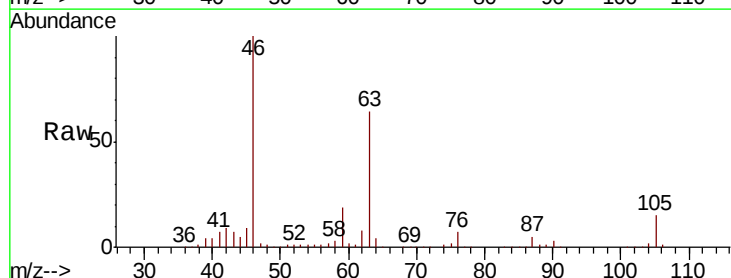


Abundance Ion 78.00 (77.70 to 78.70): VV0

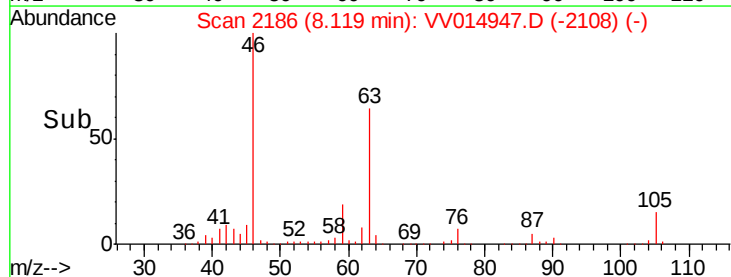
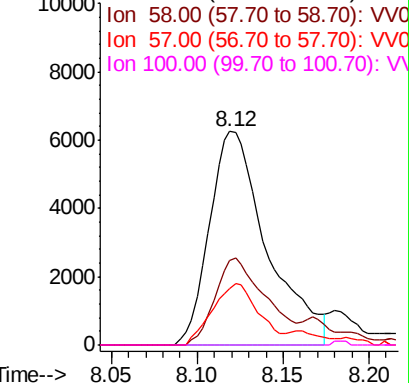


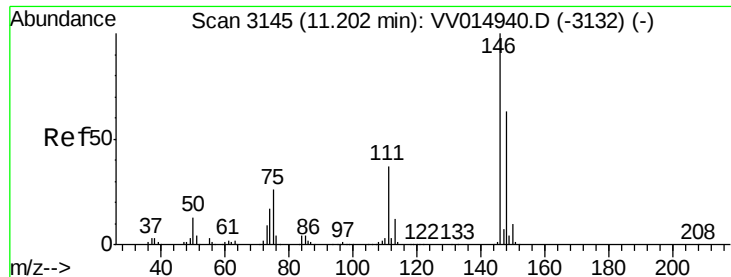
#48
2-Hexanone
Concen: 5.458 ug/L
RT: 8.12 min Scan# 2186
Delta R.T. -0.05 min
Lab File: VV014947.D
Acq: 16 Mar 2020 15:42

Tgt Ion: 43 Resp: 14631
Ion Ratio Lower Upper
43 100
58 36.0 46.9 70.3#
57 23.2 16.2 24.4
100 0.0 11.9 17.9#



Abundance Ion 43.00 (42.70 to 43.70): VV0





#62

1,3-Dichlorobenzene

Concen: 164.344 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

Instrument :

MSVOA_V

ClientSampled :

C0DD2

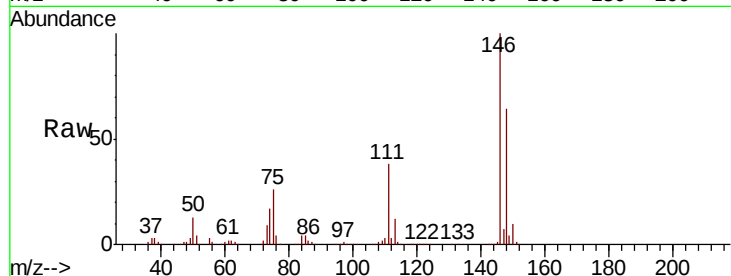
Tot Ion:146 Resp: 1089539

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.3

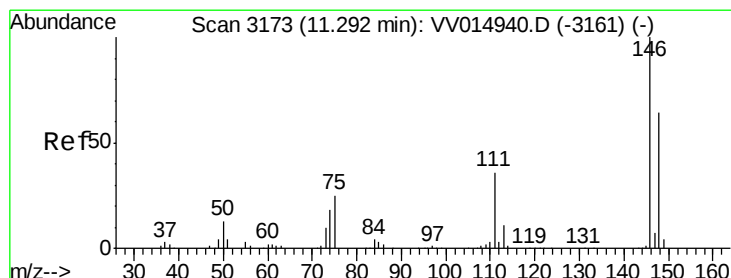
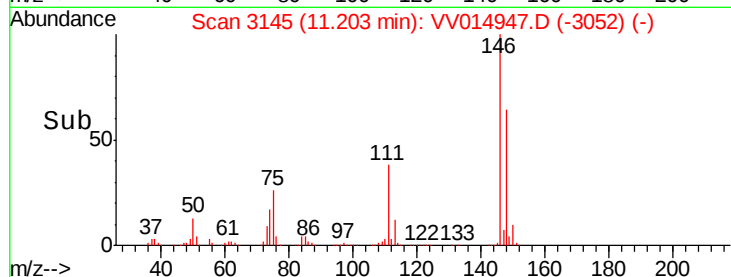
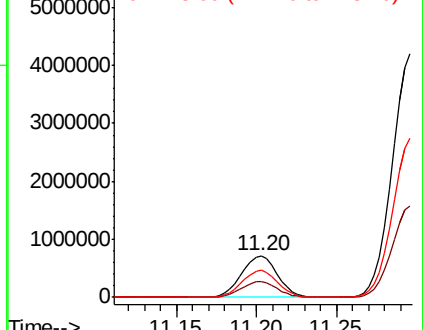
148 64.3 45.4 84.2



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: 951.554 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

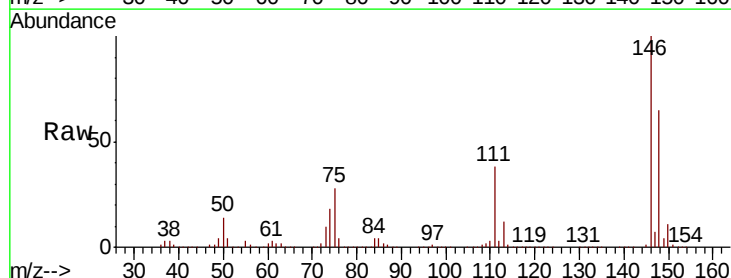
Tgt Ion:146 Resp: 6354708

Ion Ratio Lower Upper

146 100

111 37.6 26.0 48.2

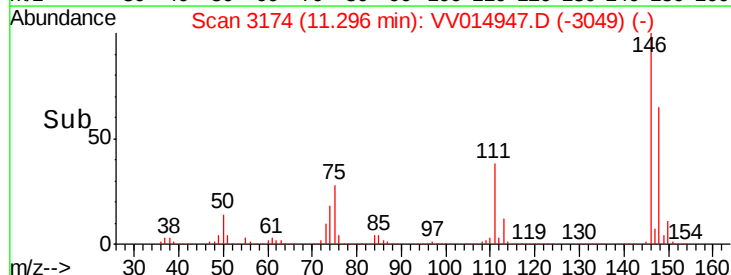
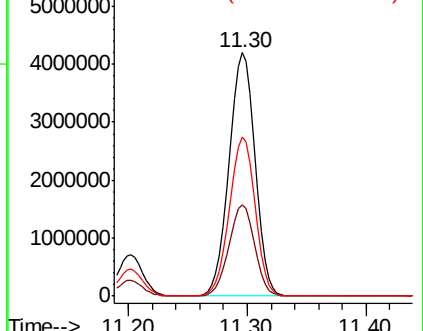
148 65.4 46.1 85.5

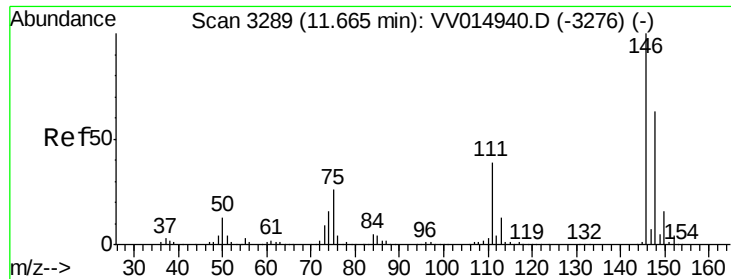


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 899.387 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

Instrument :

MSVOA_V

ClientSampled :

C0DD2

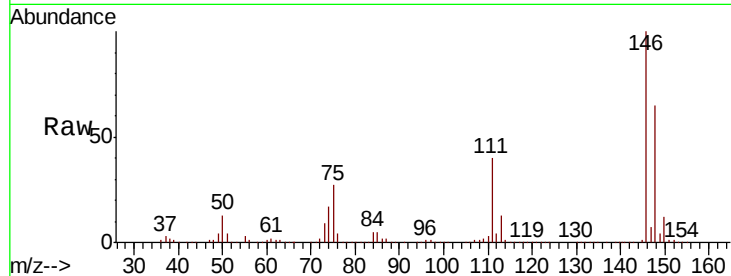
Tot Ion:146 Resp: 5956102

Ion Ratio Lower Upper

146 100

111 40.4 31.6 47.4

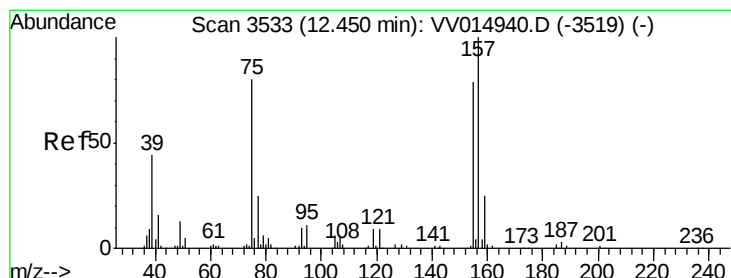
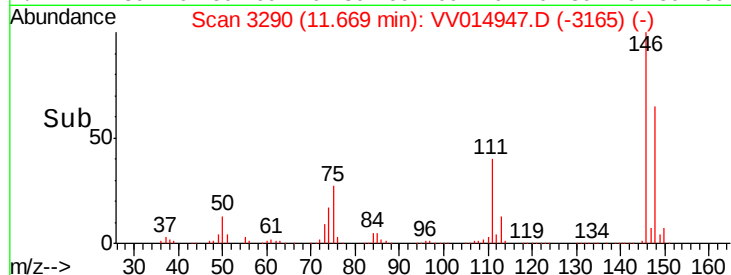
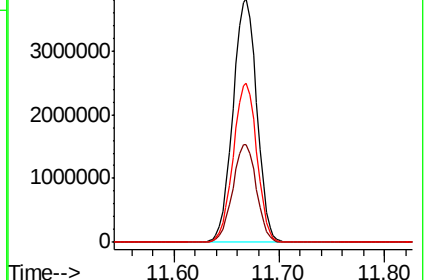
148 65.2 52.2 78.4



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: 25.028 ug/L

RT: 12.41 min Scan# 3522

Delta R.T. -0.04 min

Lab File: VV014947.D

Acq: 16 Mar 2020 15:42

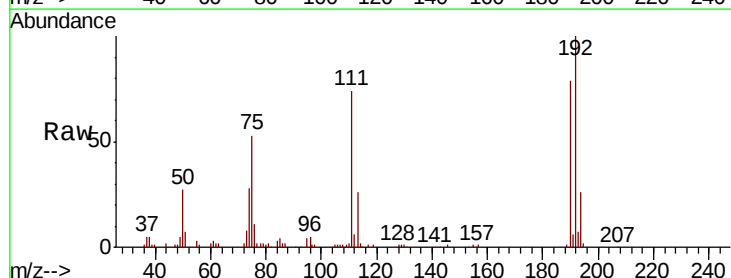
Tgt Ion: 75 Resp: 24917

Ion Ratio Lower Upper

75 100

155 2.7 77.7 116.5#

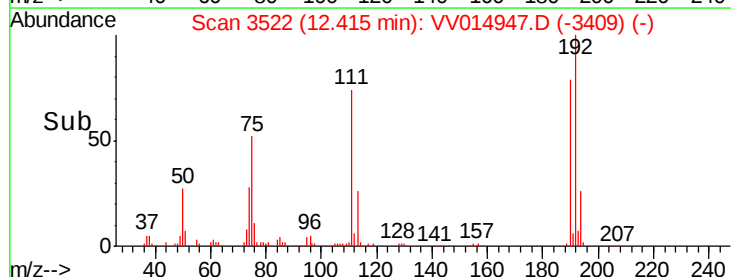
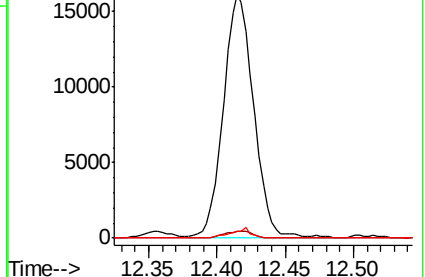
157 2.5 97.2 145.8#

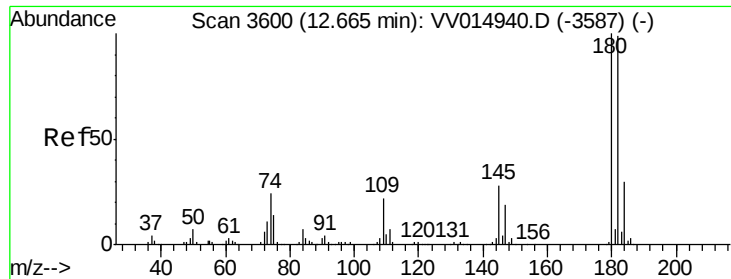


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

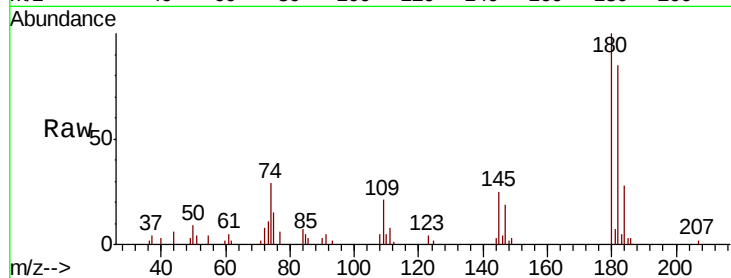




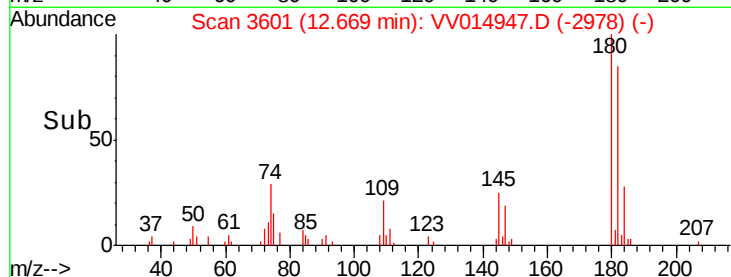
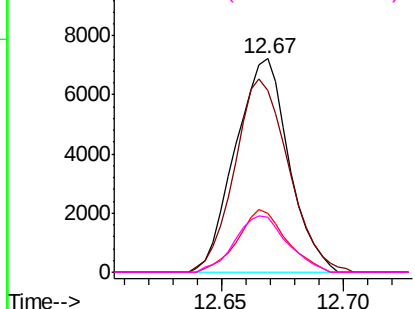
#67
 1,3,5-Trichlorobenzene
 Concen: 2.113 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV014947.D
 Acq: 16 Mar 2020 15:42

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DD2

Tot Ion:180 Resp: 10983
 Ion Ratio Lower Upper
 180 100
 182 91.4 75.7 113.5
 184 26.7 24.2 36.4
 145 25.7 22.0 33.0

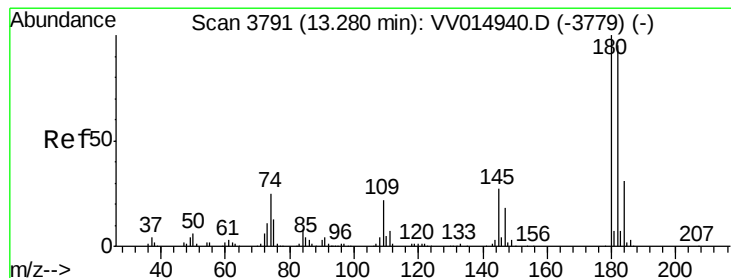


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

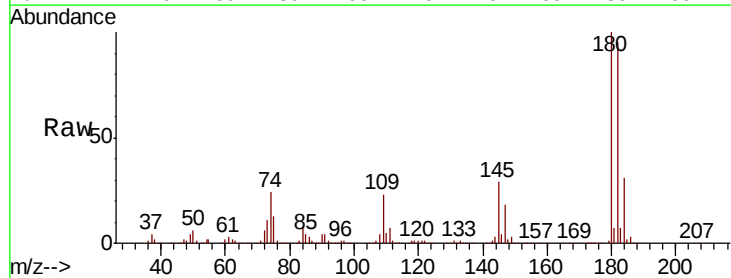
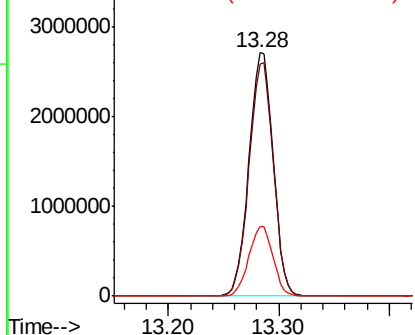


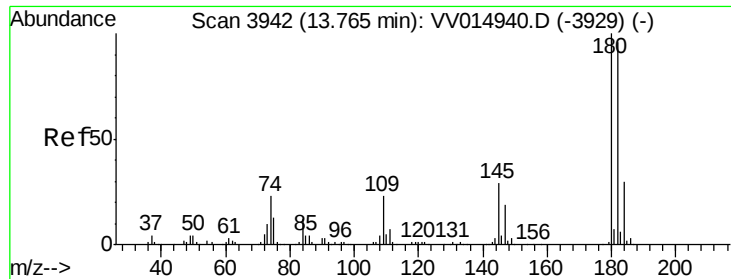
#68
 1,2,4-trichlorobenzene
 Concen: 891.189 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV014947.D
 Acq: 16 Mar 2020 15:42

Tgt Ion:180 Resp: 4128799
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.3 114.5
 145 28.5 23.1 34.7



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





#70
 1,2,3-Trichlorobenzene
 Concen: 227.135 ug/L
 RT: 13.77 min Scan# 3942
 Delta R.T. 0.00 min
 Lab File: VV014947.D
 Acq: 16 Mar 2020 15:42

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DD2

Tot Ion:180 Resp: 1041654
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.2 114.4
 145 30.3 24.1 36.1

