

Data File : VV009871.D
Acq On : 25 Mar 2019 19:33
Operator : SY/MD
Sample : K2070-13 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C09D8

Quant Time: Mar 26 07:18:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032519WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 26 07:13:38 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	175987	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	171476	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	74831	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	83595	46.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.04%
7) Chloroethane-d5	1.56	69	93439	46.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.42%
11) 1,1-Dichloroethene-d2	2.13	63	179245	33.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.68%
21) 2-Butanone-d5	3.93	46	76949	95.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.94%
24) Chloroform-d	4.40	84	111588	44.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.32%
26) 1,2-Dichloroethane-d4	5.08	65	77573	46.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.88%
32) Benzene-d6	5.10	84	241717	51.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.86%
36) 1,2-Dichloropropane-d6	6.12	67	75116	52.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.62%
41) Toluene-d8	7.36	98	215432	47.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.54%
43) trans-1,3-Dichloropropene-	7.66	79	26677	40.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.34%
47) 2-Hexanone-d5	8.14	63	55808	94.82	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.82%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	98779	42.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.78%
64) 1,2-Dichlorobenzene-d4	11.67	152	81923	47.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.52%

Target Compounds

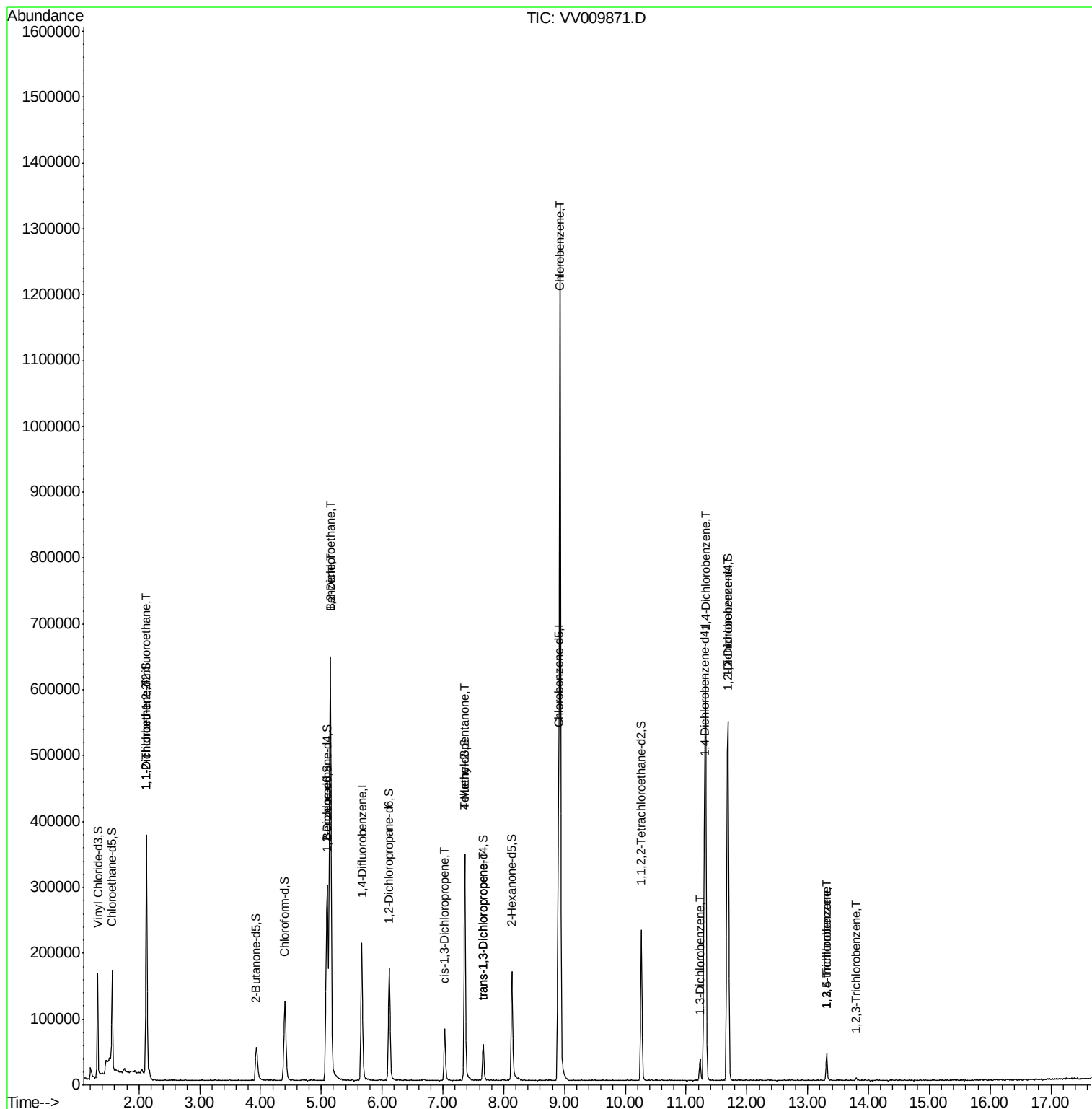
						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1821	0.674	ug/L #	21
12) 1,1-Dichloroethene	2.12	96	1546	0.647	ug/L #	1
27) 1,2-Dichloroethane	5.15	62	5882	2.895	ug/L #	74
33) Benzene	5.15	78	609922	121.835	ug/L	100
39) cis-1,3-Dichloropropene	7.03	75	2460	1.327	ug/L	90
40) 4-Methyl-2-pentanone	7.36	43	1115	0.632	ug/L #	1
44) trans-1,3-Dichloropropene	7.66	75	1924	1.117	ug/L #	76
51) Chlorobenzene	8.93	112	644777	170.007	ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	11704	4.566	ug/L	93
63) 1,4-Dichlorobenzene	11.32	146	212417	79.038	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	162894	60.153	ug/L	97
67) 1,3,5-Trichlorobenzene	13.31	180	11643	6.657	ug/L	96
68) 1,2,4-trichlorobenzene	13.31	180	11643	8.356	ug/L	94
70) 1,2,3-Trichlorobenzene	13.80	180	1198	0.850	ug/L #	89

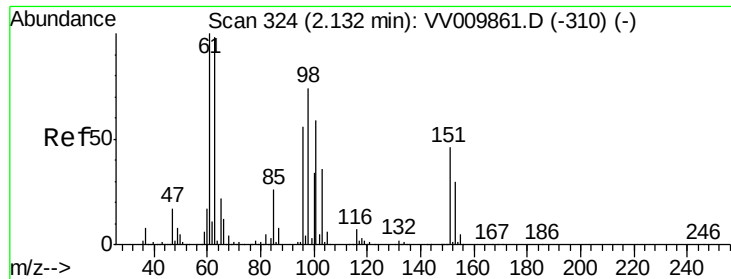
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.674 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV009871.D

Acq: 25 Mar 2019 19:33

Instrument :

MSVOA_V

ClientSampleId :

C09D8

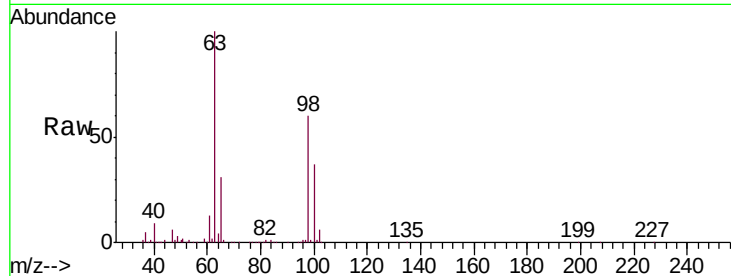
Tgt Ion: 101 Resp: 1821

Ion Ratio Lower Upper

101 100

85 4.8 37.0 55.4#

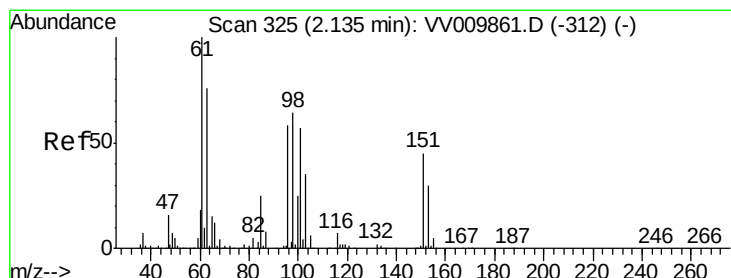
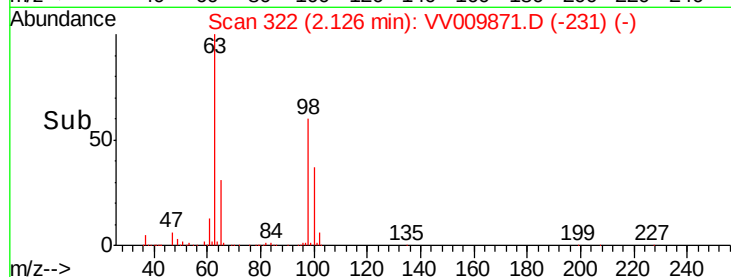
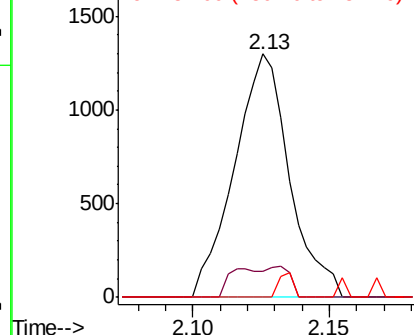
151 2.6 65.4 98.2#



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: 0.647 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV009871.D

Acq: 25 Mar 2019 19:33

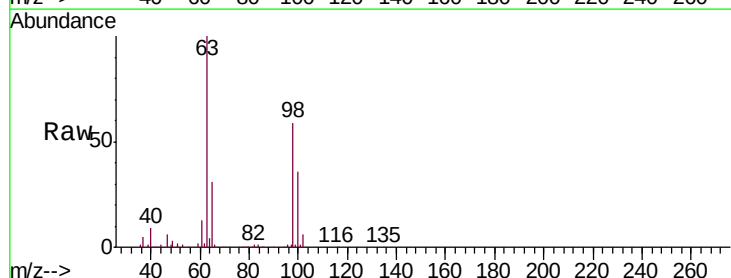
Tgt Ion: 96 Resp: 1546

Ion Ratio Lower Upper

96 100

61 1356.8 125.3 232.7#

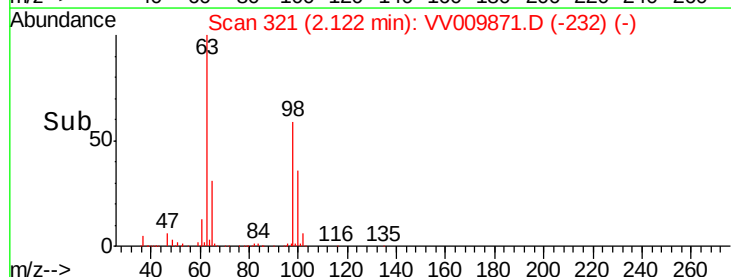
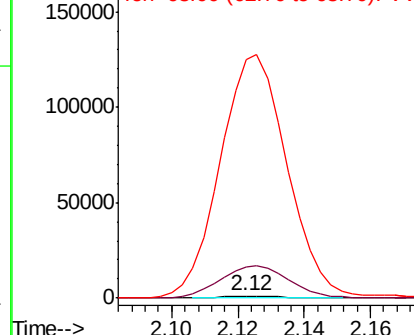
63 10315.0 109.7 203.7#

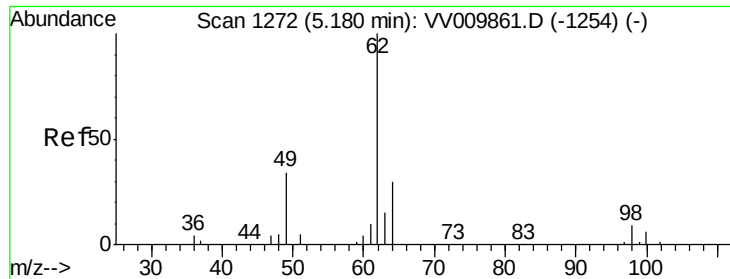


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

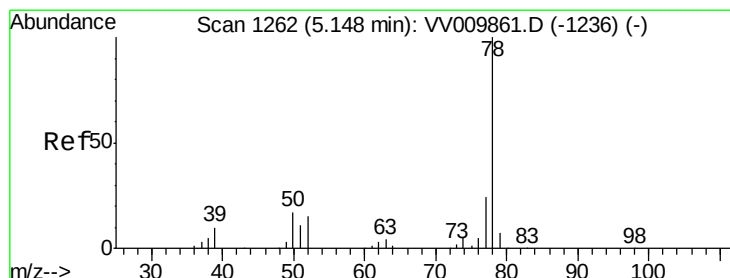
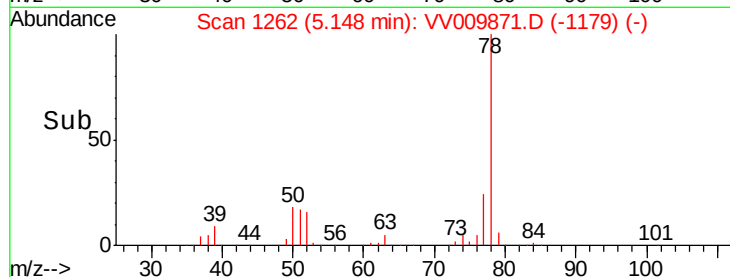
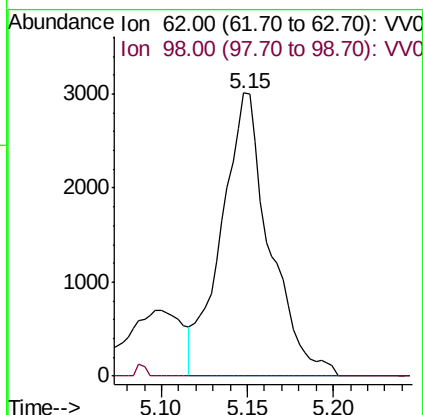
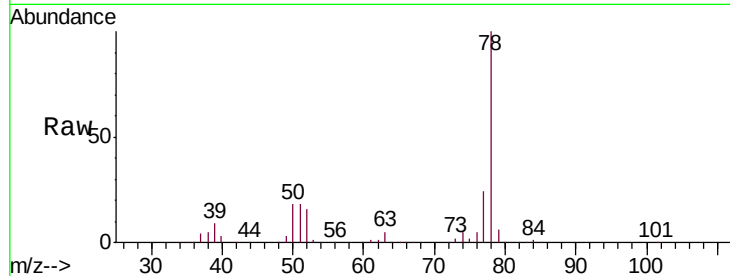




#27
 1,2-Dichloroethane
 Concen: 2.895 ug/L
 RT: 5.15 min Scan# 1262
 Delta R.T. -0.03 min
 Lab File: VV009871.D
 Acq: 25 Mar 2019 19:33

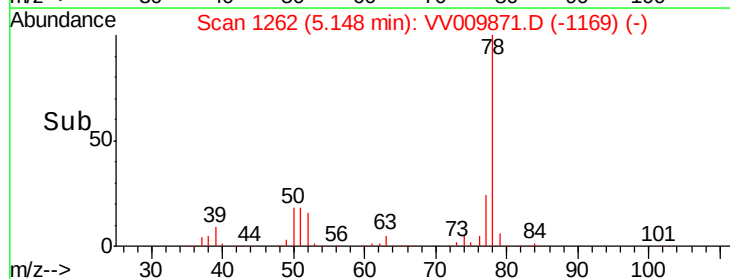
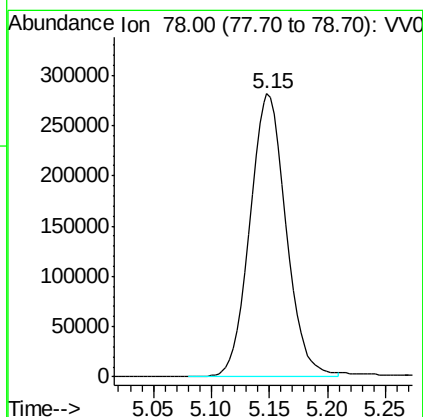
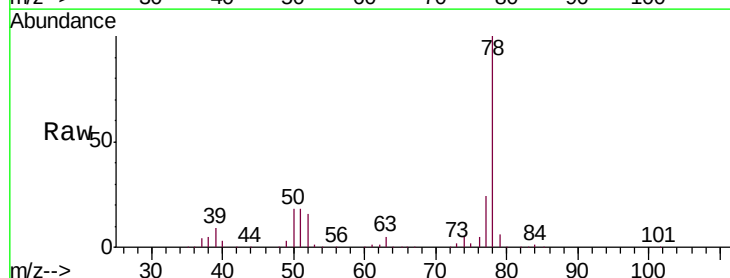
Instrument :
 MSVOA_V
 ClientSampleId :
 C09D8

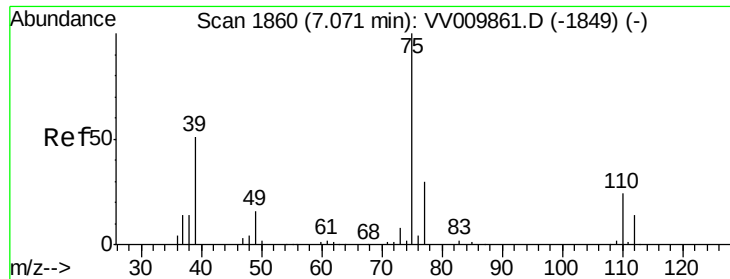
Tgt Ion: 62 Resp: 5882
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.4 11.2#



#33
 Benzene
 Concen: 121.835 ug/L
 RT: 5.15 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VV009871.D
 Acq: 25 Mar 2019 19:33

Tgt Ion: 78 Resp: 609922

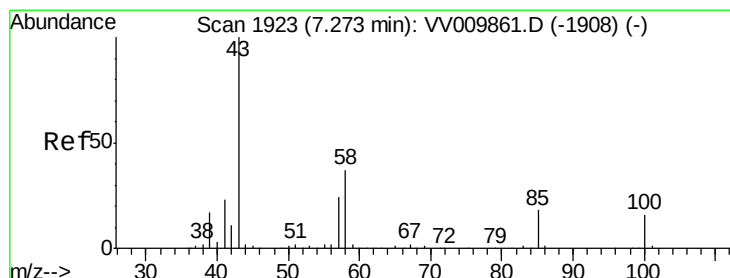
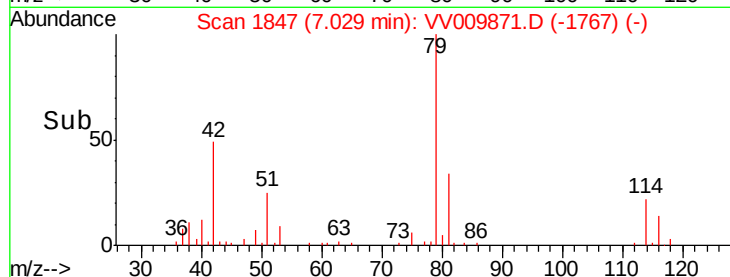
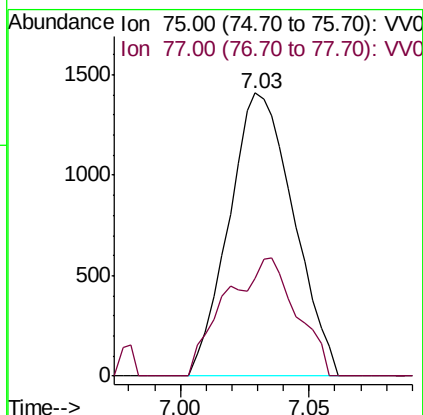
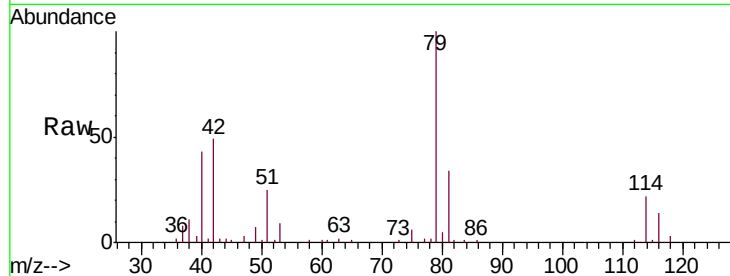




#39
 cis-1,3-Dichloropropene
 Concen: 1.327 ug/L
 RT: 7.03 min Scan# 1847
 Delta R.T. -0.04 min
 Lab File: VV009871.D
 Acq: 25 Mar 2019 19:33

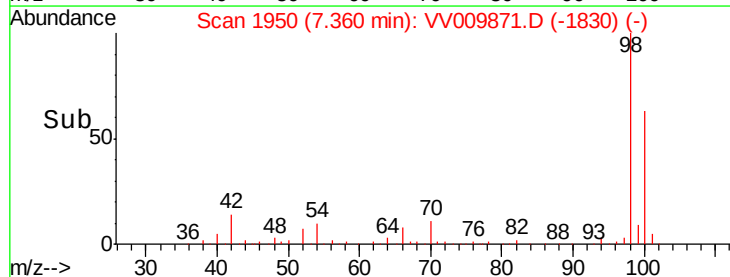
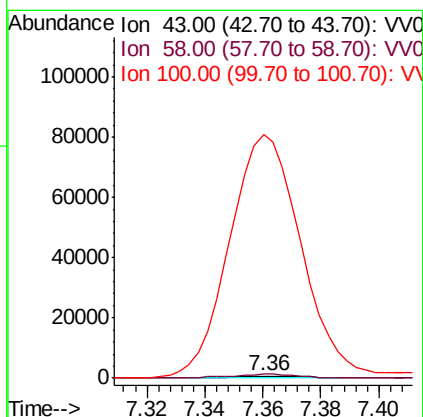
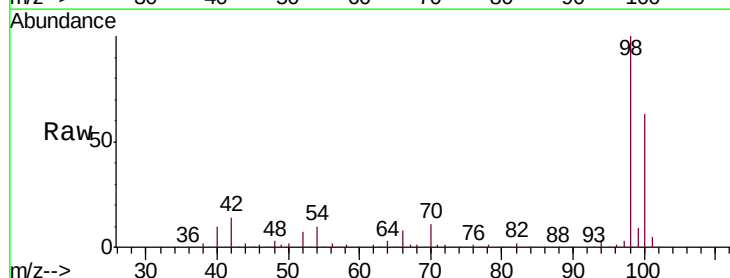
Instrument :
 MSVOA_V
 ClientSampleID :
 C09D8

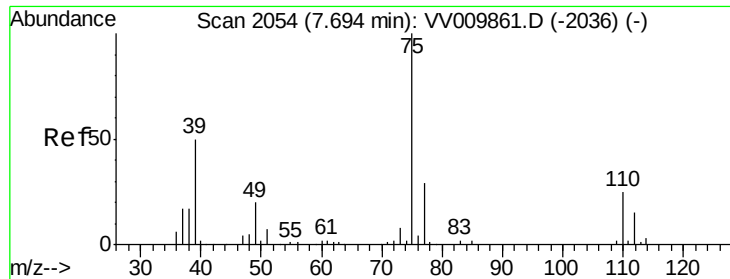
Tgt Ion: 75 Resp: 2460
 Ion Ratio Lower Upper
 75 100
 77 34.8 20.5 38.1



#40
 4-Methyl-2-pentanone
 Concen: 0.632 ug/L
 RT: 7.36 min Scan# 1950
 Delta R.T. 0.09 min
 Lab File: VV009871.D
 Acq: 25 Mar 2019 19:33

Tgt Ion: 43 Resp: 1115
 Ion Ratio Lower Upper
 43 100
 58 185.9 29.8 44.8#
 100 12538.7 12.2 18.4#





#44

trans-1,3-Dichloropropene

Concen: 1.117 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV009871.D

Acq: 25 Mar 2019 19:33

Instrument :

MSVOA_V

ClientSampleId :

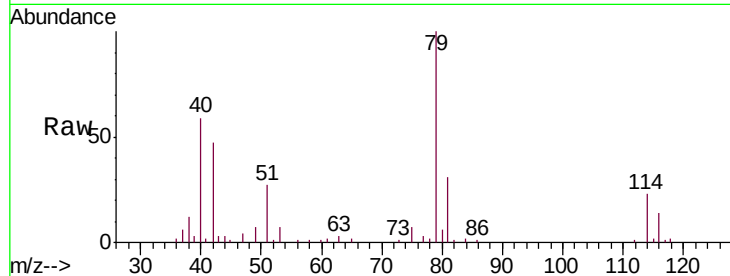
C09D8

Tgt Ion: 75 Resp: 1924

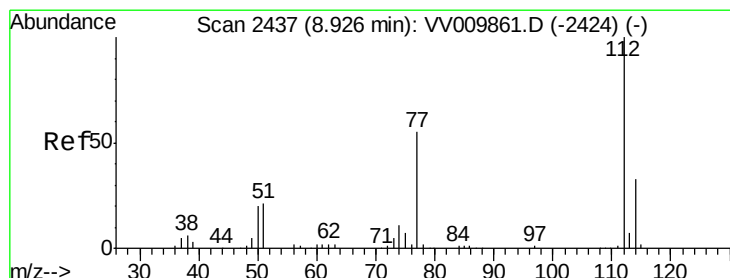
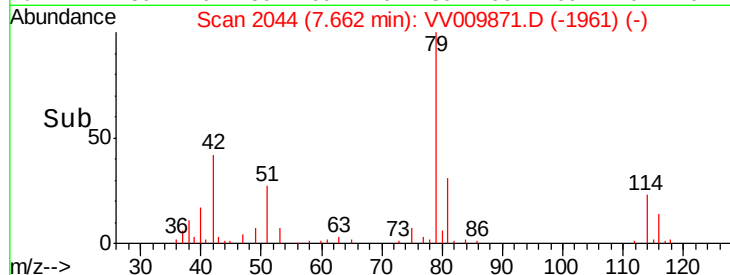
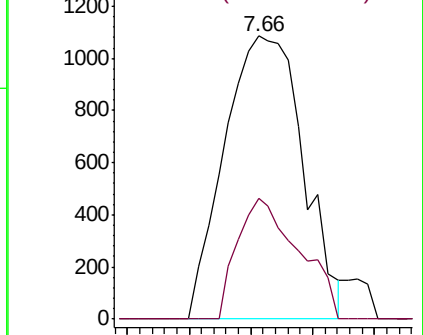
Ion Ratio Lower Upper

75 100

77 42.4 20.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VV009861.D (-2036) (-)



#51

Chlorobenzene

Concen: 170.007 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009871.D

Acq: 25 Mar 2019 19:33

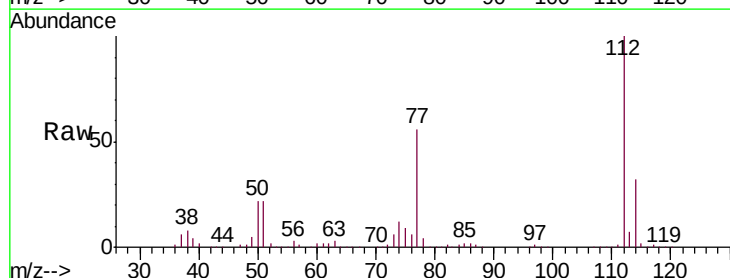
Tgt Ion: 112 Resp: 644777

Ion Ratio Lower Upper

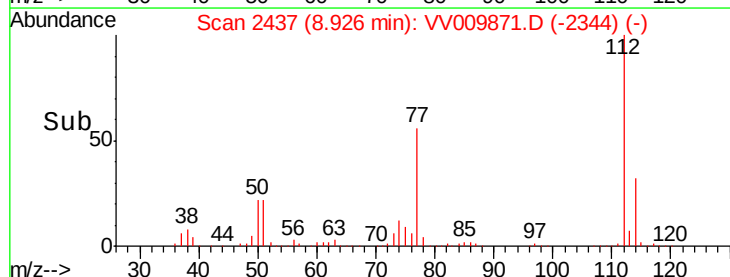
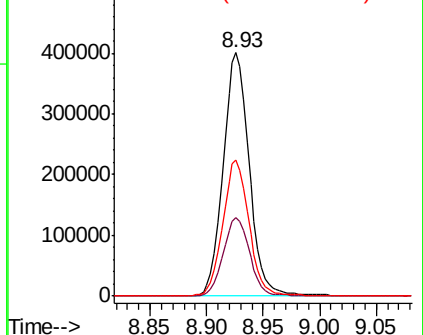
112 100

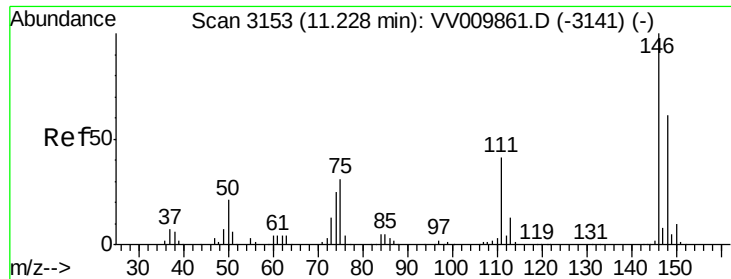
114 32.2 23.3 43.3

77 55.8 45.8 68.6



Abundance Ion 112.00 (111.70 to 112.70): VV009861.D (-2424) (-)





#62

1,3-Dichlorobenzene

Concen: 4.566 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009871.D

Acq: 25 Mar 2019 19:33

Instrument :

MSVOA_V

ClientSampled :

C09D8

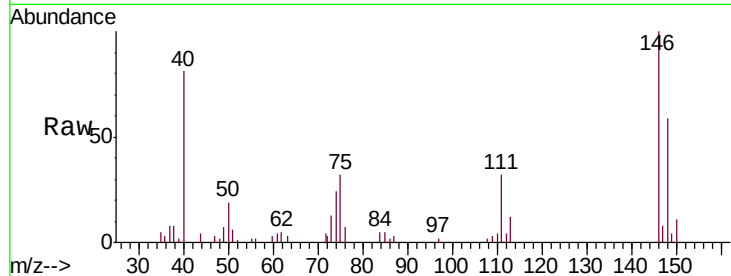
Tgt Ion:146 Resp: 11704

Ion Ratio Lower Upper

146 100

111 32.2 27.5 51.1

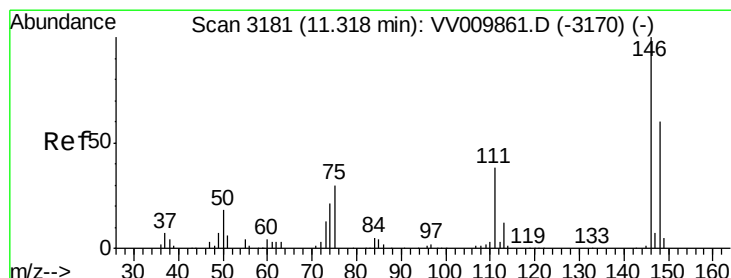
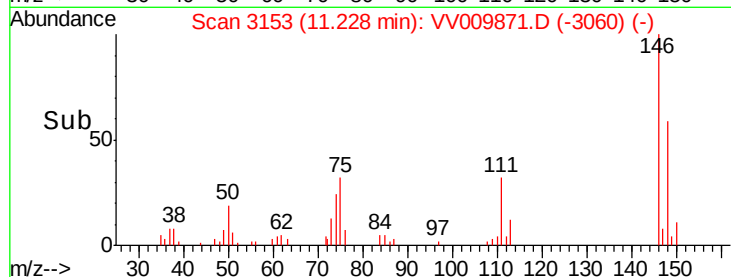
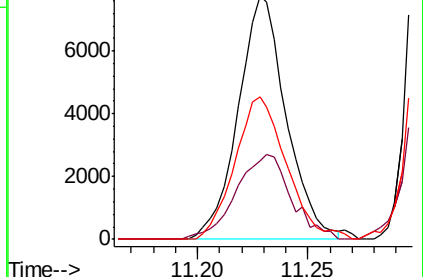
148 58.7 43.0 80.0



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: 79.038 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV009871.D

Acq: 25 Mar 2019 19:33

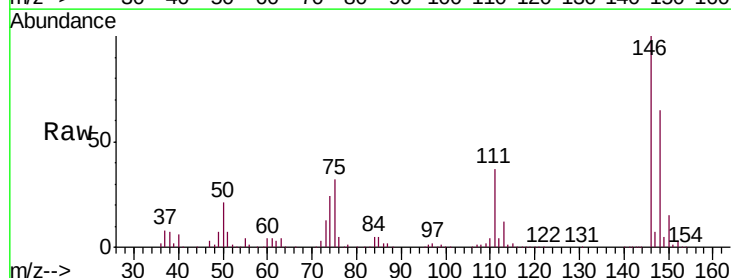
Tgt Ion:146 Resp: 212417

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.3

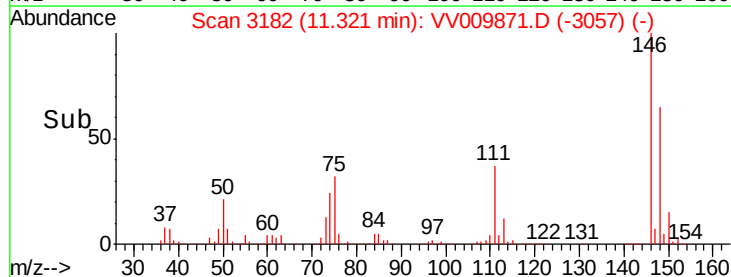
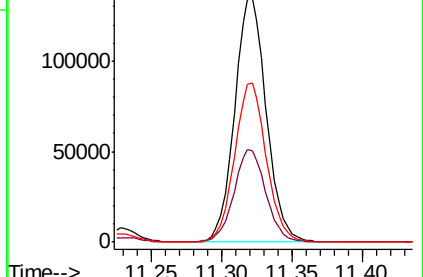
148 65.4 43.2 80.2

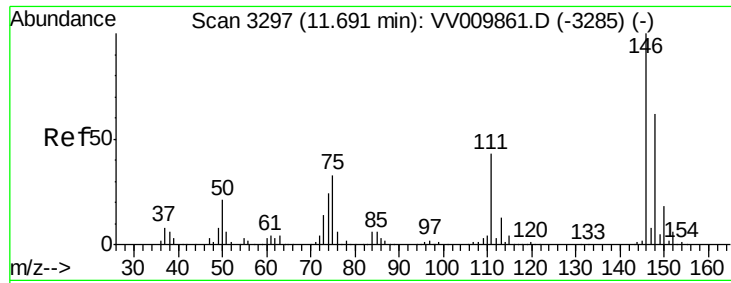


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 60.153 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009871.D

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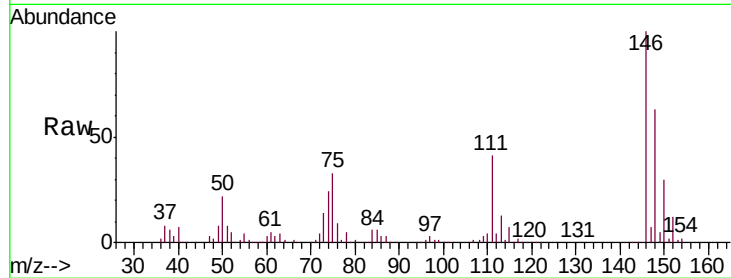
Tgt Ion:146 Resp: 162894

Ion Ratio Lower Upper

146 100

111 41.0 33.0 49.6

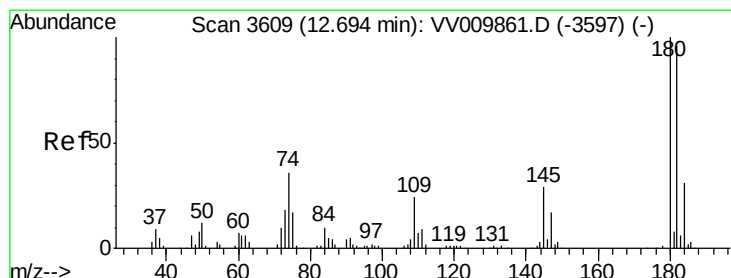
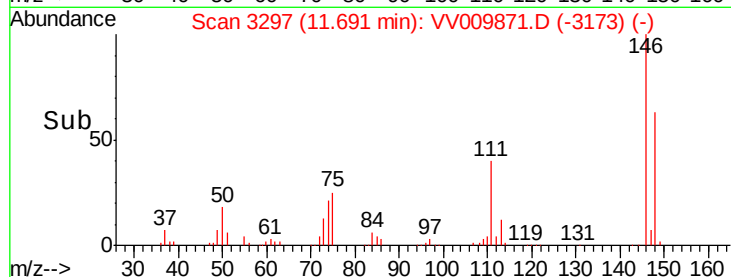
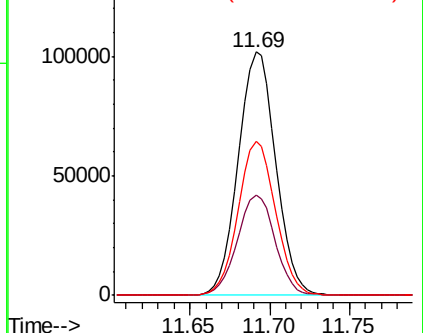
148 63.4 53.2 79.8



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



#67

1,3,5-Trichlorobenzene

Concen: 6.657 ug/L

RT: 13.31 min Scan# 3801

Delta R.T. 0.62 min

Lab File: VV009871.D

Acq: 25 Mar 2019 19:33

Tgt Ion:180 Resp: 11643

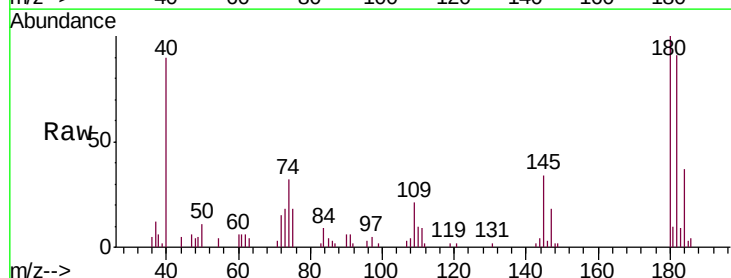
Ion Ratio Lower Upper

180 100

182 89.4 75.0 112.6

184 27.9 24.1 36.1

145 29.1 24.2 36.4

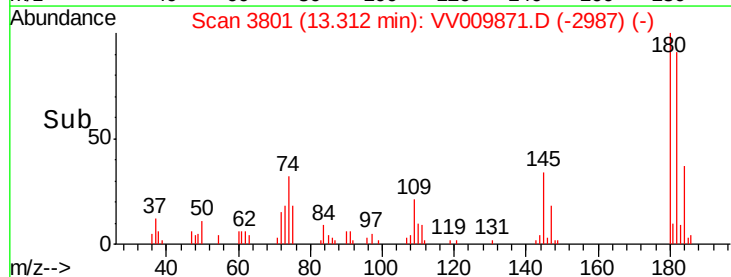
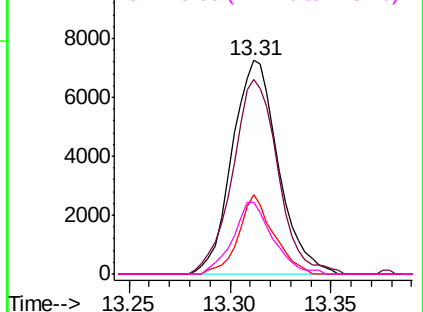


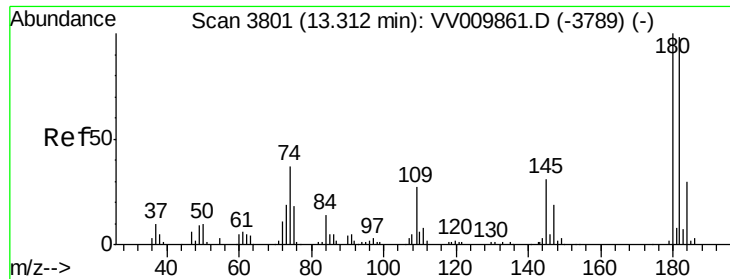
Abundance Ion 180.00 (179.70 to 180.70): V

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

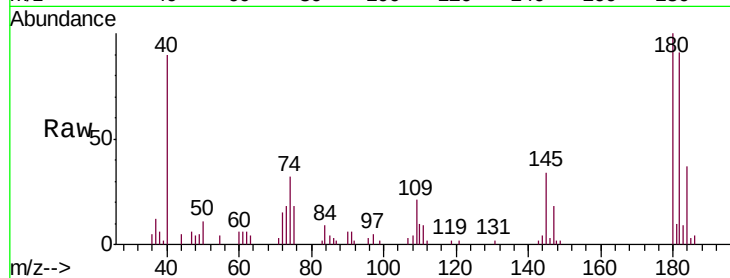




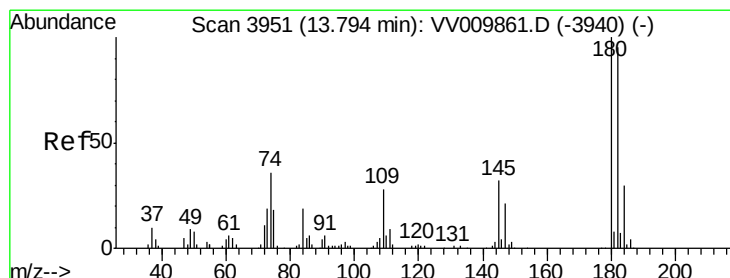
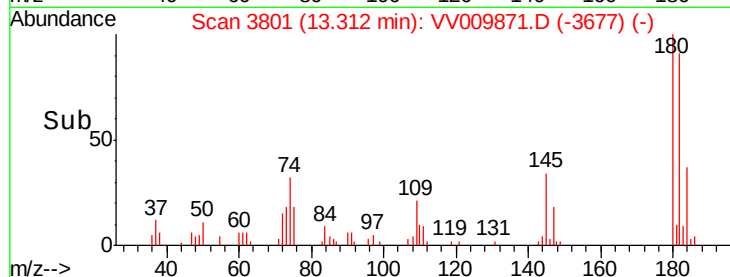
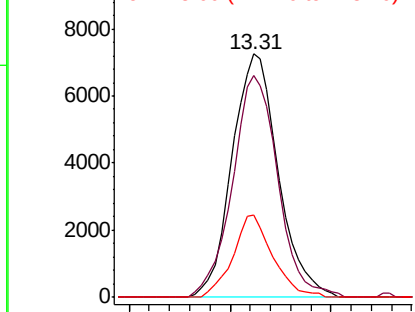
#68
 1,2,4-trichlorobenzene
 Concen: 8.356 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009871.D
 Acq: 25 Mar 2019 19:33

Instrument :
 MSVOA_V
 ClientSampleID :
 C09D8

Tgt Ion:180 Resp: 11643
 Ion Ratio Lower Upper
 180 100
 182 89.4 77.1 115.7
 145 29.1 24.3 36.5

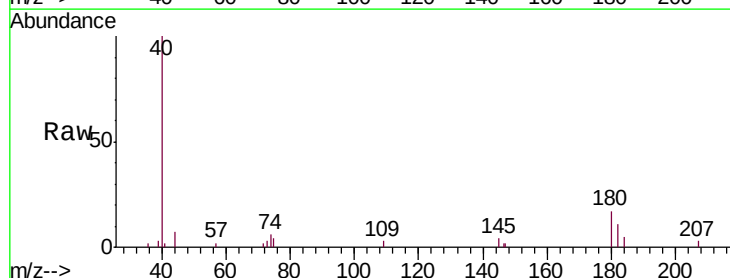


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



#70
 1,2,3-Trichlorobenzene
 Concen: 0.850 ug/L
 RT: 13.80 min Scan# 3953
 Delta R.T. 0.01 min
 Lab File: VV009871.D
 Acq: 25 Mar 2019 19:33

Tgt Ion:180 Resp: 1198
 Ion Ratio Lower Upper
 180 100
 182 103.5 75.6 113.4
 145 22.3 24.8 37.2#



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

