

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092818\
 Data File : VV007976.D
 Acq On : 29 Sep 2018 01:51
 Operator : SY/MD
 Sample : J5091-07
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E62T1

Quant Time: Oct 01 04:57:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 01 04:55:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	88611	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	84012	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	42312	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	17809	3.75	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.00%
7) Chloroethane-d5	1.59	69	18057	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.14	63	31187	2.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.20%#
20) 2-Butanone-d5	3.97	46	69599	48.71	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.42%
24) Chloroform-d	4.41	84	72594	6.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	134.20%#
26) 1,2-Dichloroethane-d4	5.09	65	27109	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.20%
32) Benzene-d6	5.10	84	92920	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
36) 1,2-Dichloropropane-d6	6.12	67	30769	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.36	98	84436	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.60%
43) trans-1,3-Dichloropropene-	7.67	79	9470	3.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.40%
46) 2-Hexanone-d5	8.14	63	49784	46.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.14%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	23579	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.20%
64) 1,2-Dichlorobenzene-d4	11.68	152	38247	4.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.40%

Target Compounds

					Ovalue
18) trans-1,2-Dichloroethene	2.80	96	593	0.092 ug/L	86
22) cis-1,2-Dichloroethene	3.96	96	1232	0.188 ug/L	98
25) Chloroform	4.43	83	555503	46.623 ug/L	99
29) 1,1,1-Trichloroethane	4.67	97	1216	0.120 ug/L #	77
31) Carbon tetrachloride	4.88	117	447821	50.284 ug/L	100
34) Trichloroethene	5.96	95	1917	0.278 ug/L	96
35) Methylcyclohexane	6.12	83	7560	0.732 ug/L #	18
37) 1,2-Dichloropropane	6.13	63	3471	0.565 ug/L #	87
39) cis-1,3-Dichloropropene	7.04	75	724	0.088 ug/L #	46
47) Tetrachloroethene	8.02	164	2096	0.328 ug/L	95
49) Dibromochloromethane	8.02	129	1933	0.382 ug/L #	12
51) Chlorobenzene	8.93	112	63495	3.509 ug/L	100
62) 1,3-Dichlorobenzene	11.23	146	36464	2.610 ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	62811	4.325 ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	76979	5.846 ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.69	75	115	0.171 ug/L #	1
67) 1,3,5-Trichlorobenzene	12.70	180	1361	0.114 ug/L #	91

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 01 04:55:39 2018
Response via : Initial Calibration

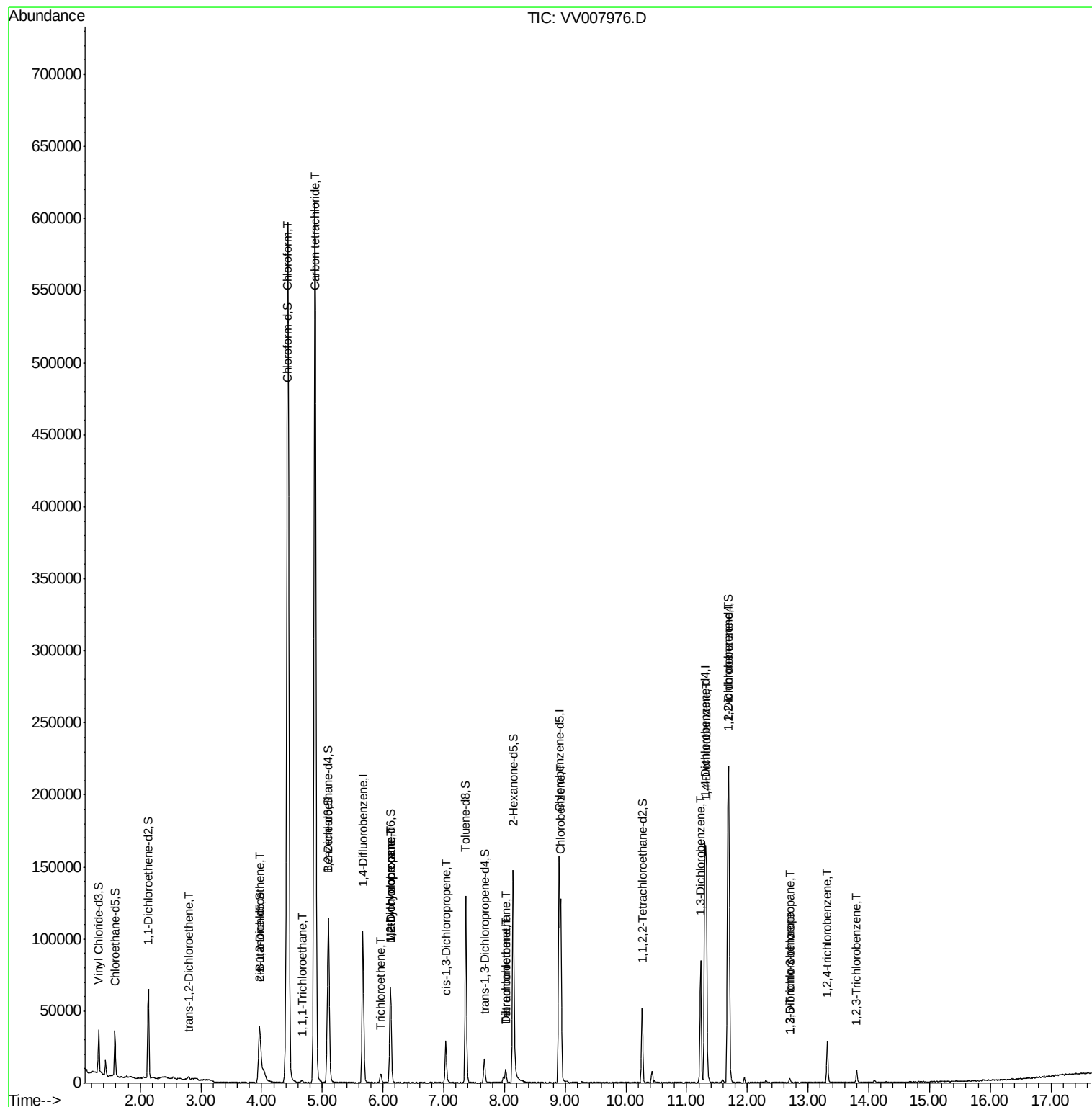
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.32	180	10141	1.003	ug/L	97
70) 1,2,3-Trichlorobenzene	13.80	180	3076	0.336	ug/L	98

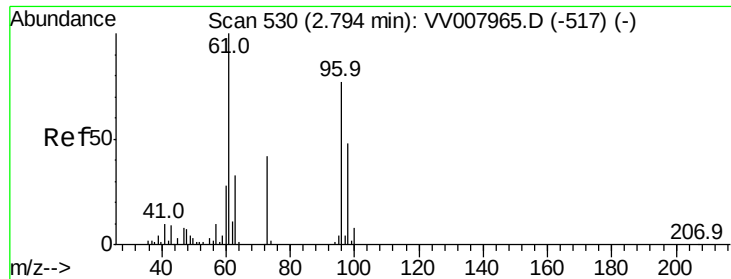
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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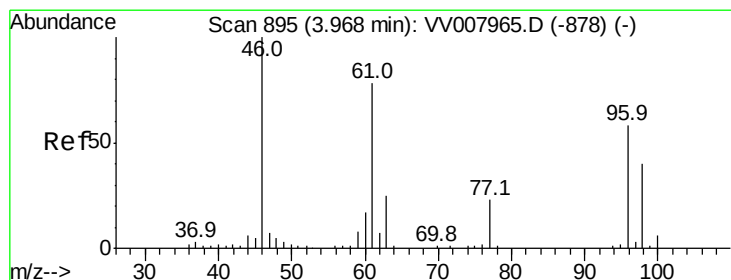
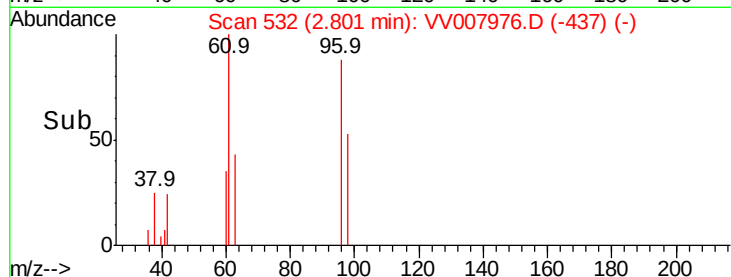
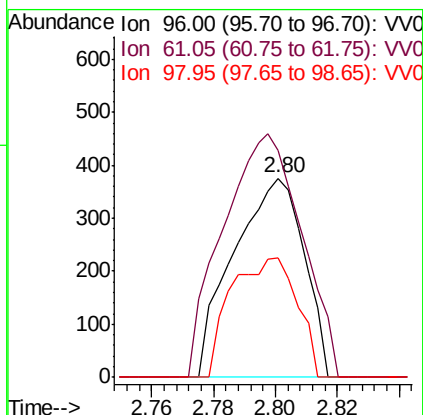
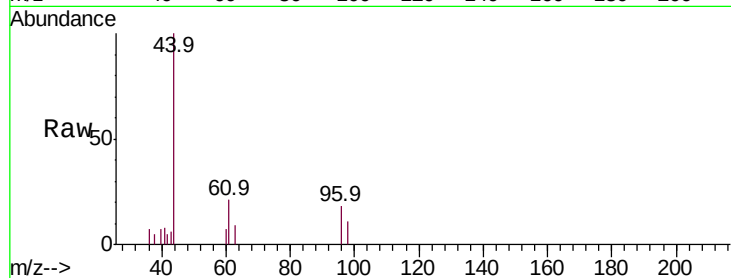




#18
trans-1,2-Dichloroethene
Concen: 0.092 ug/L
RT: 2.80 min Scan# 532
Delta R.T. 0.01 min
Lab File: VV007976.D
Acq: 29 Sep 2018 01:51

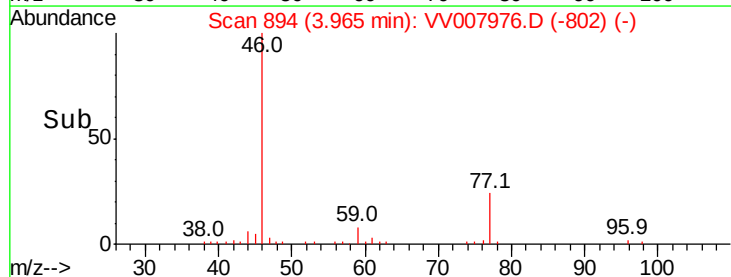
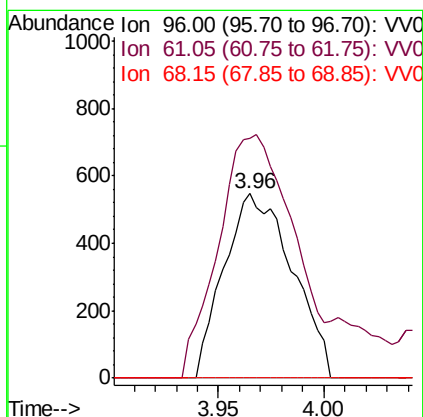
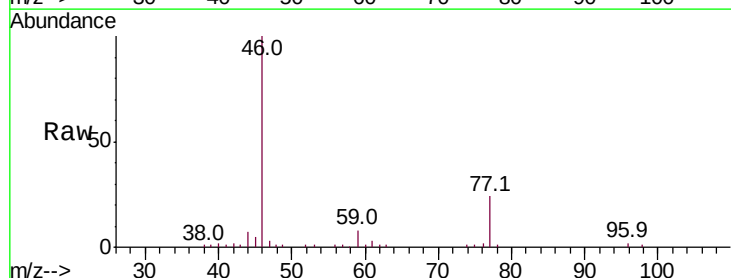
Instrument :
MSVOA_V
ClientSampled :
E62T1

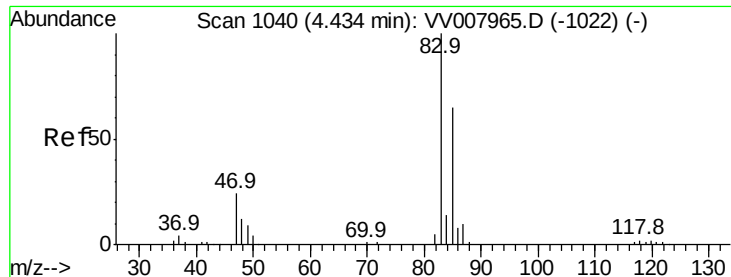
Tot Ion: 96 Resp: 593
Ion Ratio Lower Upper
96 100
61 113.6 94.2 175.0
98 60.1 44.9 83.5



#22
cis-1,2-Dichloroethene
Concen: 0.188 ug/L
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VV007976.D
Acq: 29 Sep 2018 01:51

Tgt Ion: 96 Resp: 1232
Ion Ratio Lower Upper
96 100
61 130.3 89.5 166.1
68 0.0 0.0 0.0





#25

Chloroform

Concen: 46.623 ug/L

RT: 4.43 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

Instrument :

MSVOA_V

ClientSampleId :

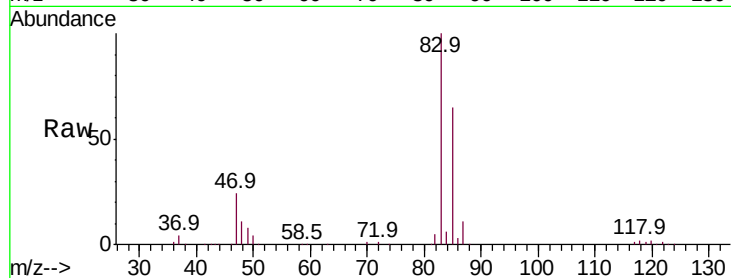
E62T1

Tot Ion: 83 Resp: 555503

Ion Ratio Lower Upper

83 100

85 65.2 44.8 83.2



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

250000

200000

150000

100000

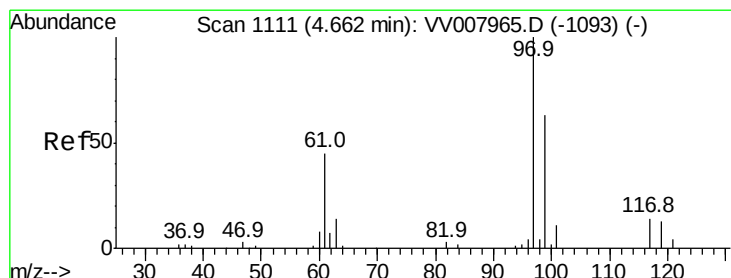
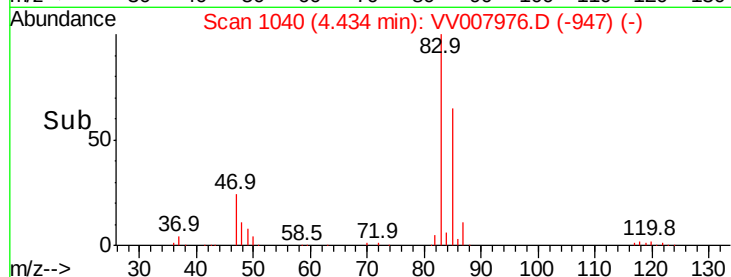
50000

0

4.43

4.30 4.40 4.50 4.60

Time-->



#29

1,1,1-Trichloroethane

Concen: 0.120 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

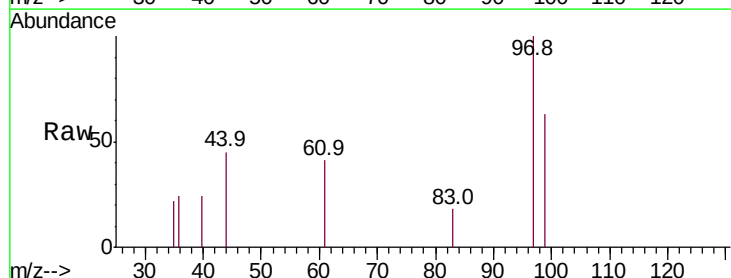
Tgt Ion: 97 Resp: 1216

Ion Ratio Lower Upper

97 100

99 74.6 51.2 76.8

61 19.8 34.6 52.0#



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0

800

600

400

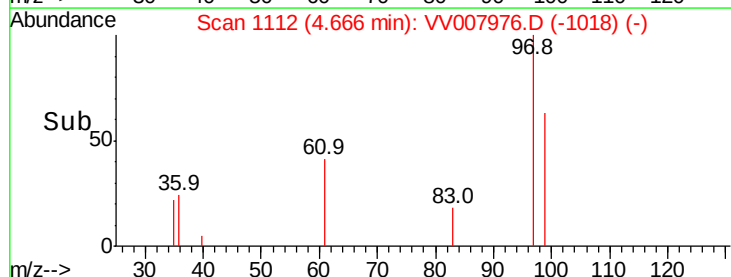
200

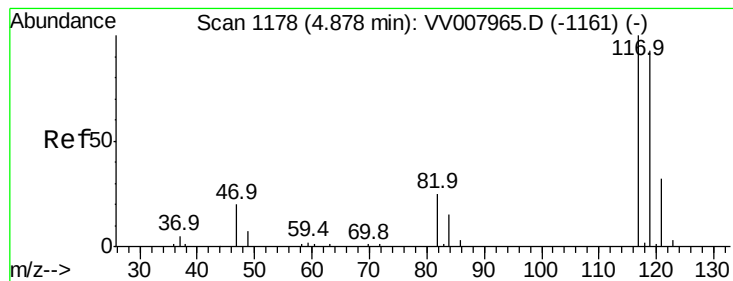
0

4.67

4.60 4.65 4.70

Time-->





#31

Carbon tetrachloride

Concen: 50.284 ug/L

RT: 4.88 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

Instrument :

MSVOA_V

ClientSampleId :

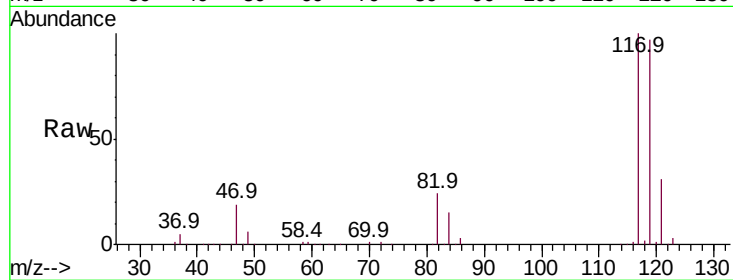
E62T1

Tot Ion:117 Resp: 447821

Ion Ratio Lower Upper

117 100

119 96.9 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.88

200000

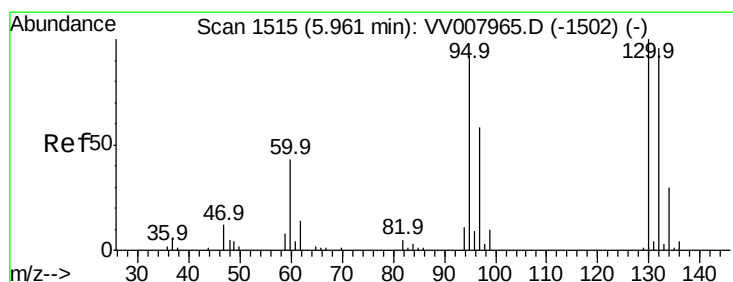
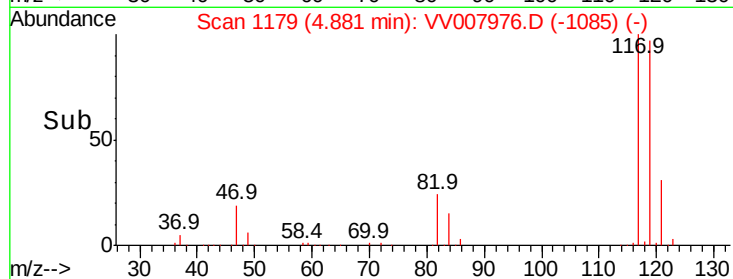
150000

100000

50000

0

Time-->



#34

Trichloroethene

Concen: 0.278 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

Tgt Ion: 95 Resp: 1917

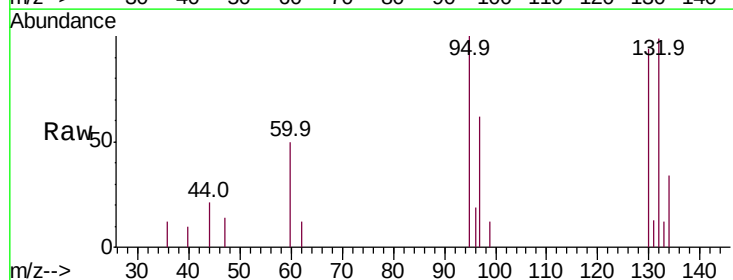
Ion Ratio Lower Upper

95 100

97 62.1 43.6 81.0

132 99.4 69.9 129.9

130 93.9 71.7 133.3



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

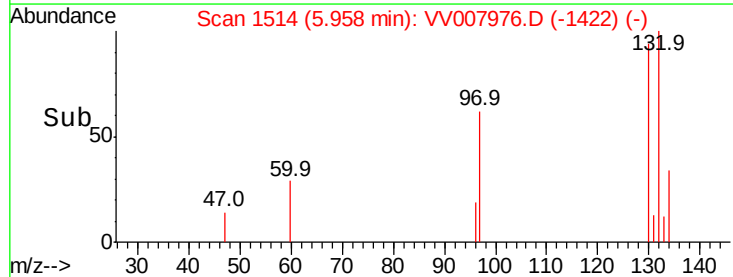
1500

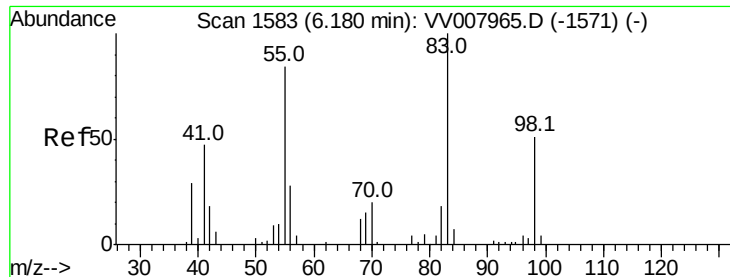
1000

500

0

Time-->

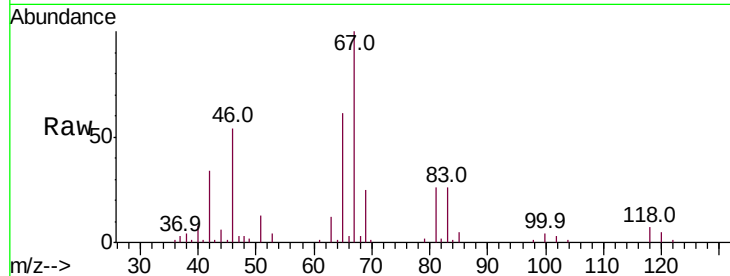




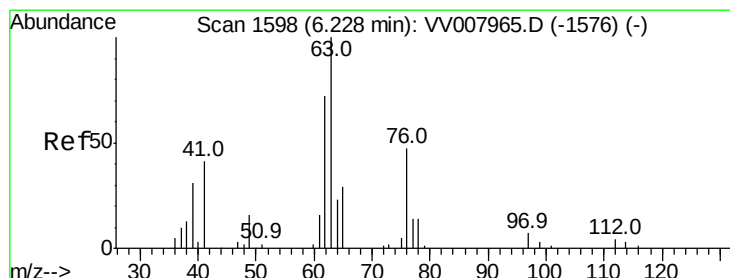
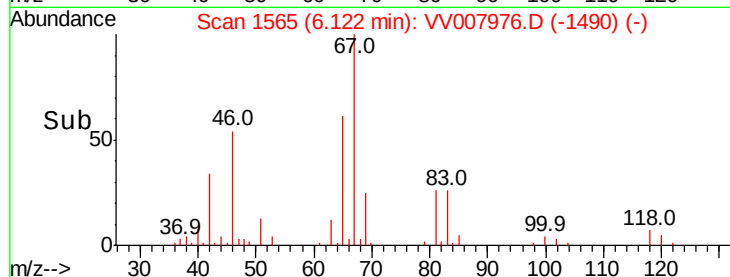
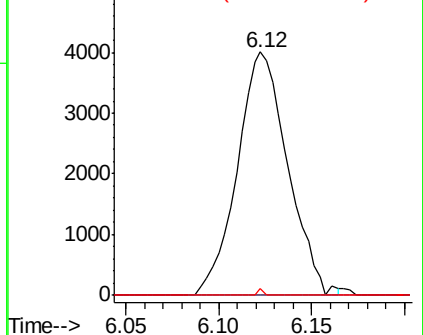
#35
Methylvlcyclohexane
Concen: 0.732 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.06 min
Lab File: VV007976.D
Acq: 29 Sep 2018 01:51

Instrument :
MSVOA_V
ClientSampleId :
E62T1

Tot Ion: 83 Resp: 7560
Ion Ratio Lower Upper
83 100
55 0.0 62.2 93.2#
98 0.3 38.0 57.0#

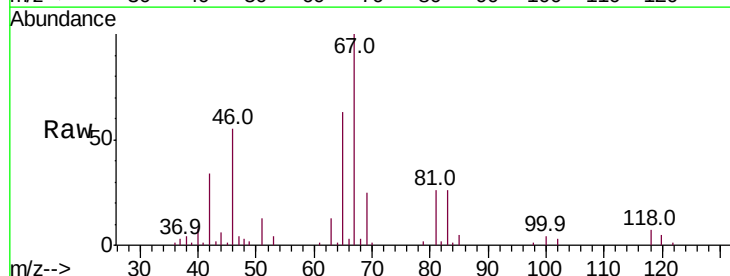


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

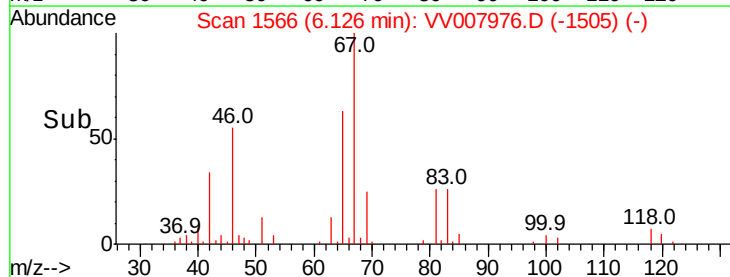
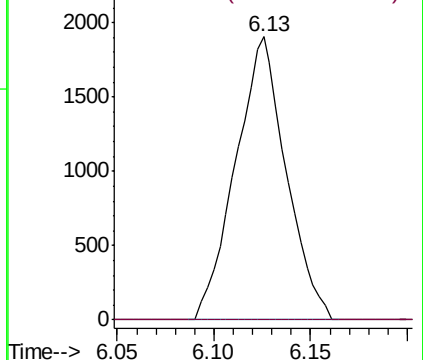


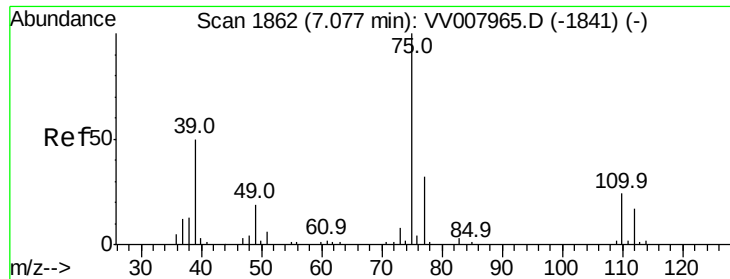
#37
1,2-Dichloropropane
Concen: 0.565 ug/L
RT: 6.13 min Scan# 1566
Delta R.T. -0.10 min
Lab File: VV007976.D
Acq: 29 Sep 2018 01:51

Tgt Ion: 63 Resp: 3471
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

Instrument :

MSVOA_V

ClientSampleId :

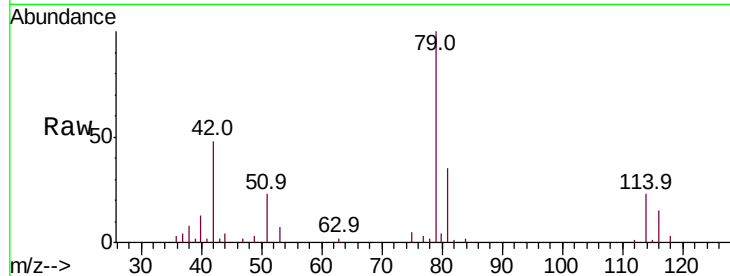
E62T1

Tot Ion: 75 Resp: 724

Ion Ratio Lower Upper

75 100

77 63.2 22.9 42.5#

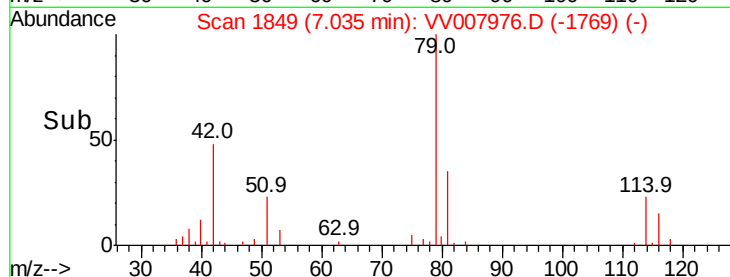


Abundance Ion 75.05 (74.75 to 75.75): VV007965.D (-1841) (-)

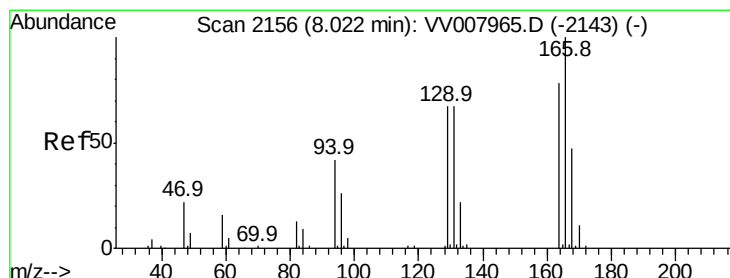
Ion 77.05 (76.75 to 77.75): VV007965.D (-1841) (-)

7.04

Time-->



Time-->



#47

Tetrachloroethene

Concen: 0.328 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

Tgt Ion: 164 Resp: 2096

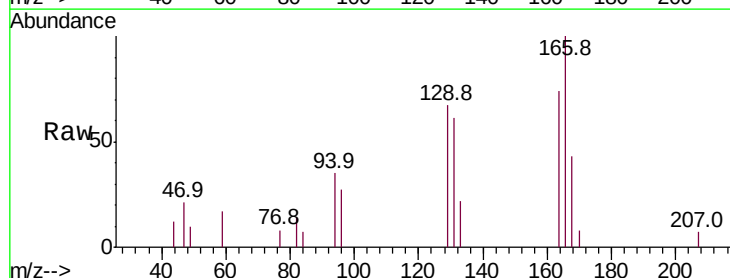
Ion Ratio Lower Upper

164 100

129 90.2 59.2 110.0

131 82.4 57.1 106.1

166 135.4 88.6 164.6



Abundance Ion 163.90 (163.60 to 164.60): VV007965.D (-2143) (-)

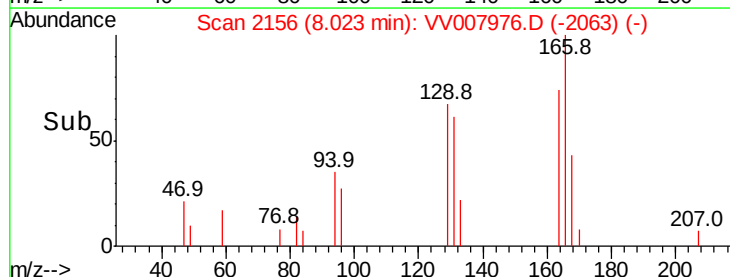
Ion 128.95 (128.65 to 129.65): VV007965.D (-2143) (-)

Ion 130.95 (130.65 to 131.65): VV007965.D (-2143) (-)

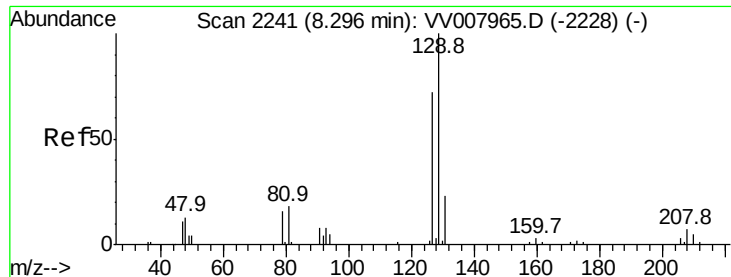
Ion 165.90 (165.60 to 166.60): VV007965.D (-2143) (-)

8.02

Time-->



Time-->



#49

Dibromochloromethane

Concen: 0.382 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. -0.27 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

Instrument :

MSVOA_V

ClientSampleId :

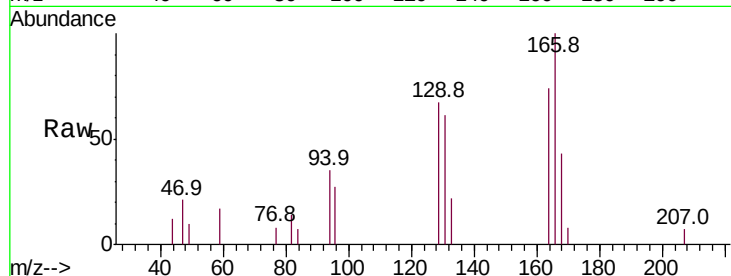
E62T1

Tot Ion:129 Resp: 1933

Ion Ratio Lower Upper

129 100

127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

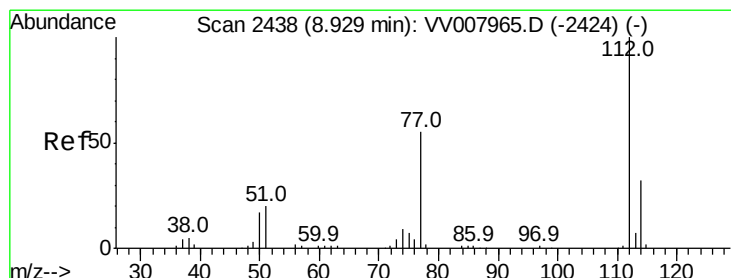
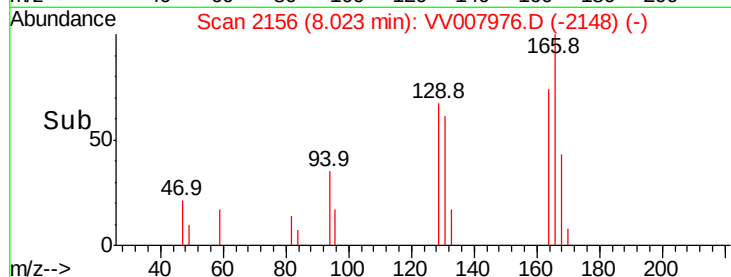
8.02

1000

500

0

Time--> 7.98 8.00 8.02 8.04 8.06



#51

Chlorobenzene

Concen: 3.509 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

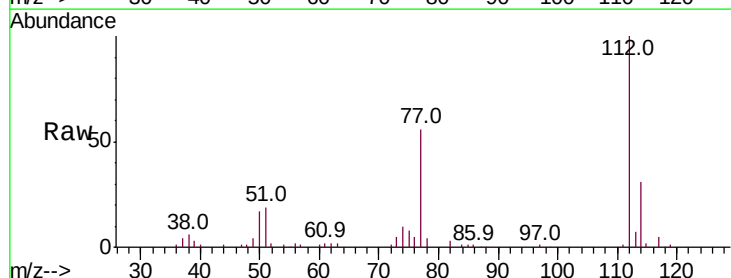
Tgt Ion:112 Resp: 63495

Ion Ratio Lower Upper

112 100

114 31.4 22.4 41.6

77 56.4 45.0 67.6



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

50000

40000

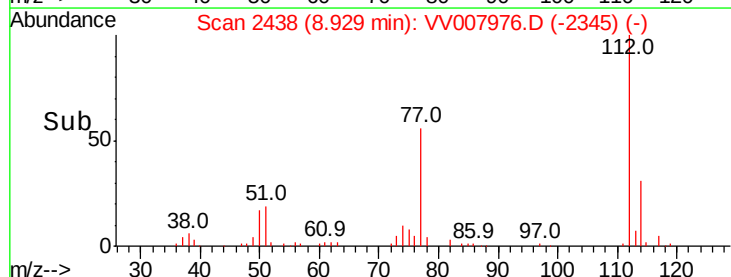
30000

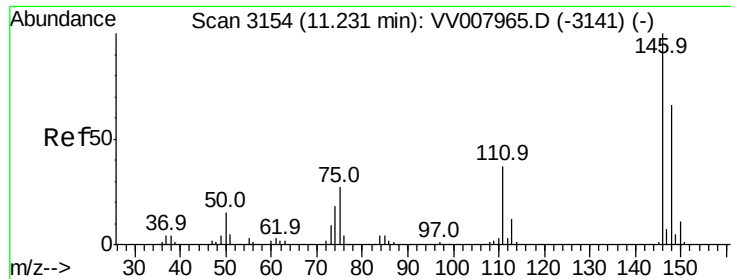
20000

10000

0

Time--> 8.90 8.93 9.00





#62

1,3-Dichlorobenzene

Concen: 2.610 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

Instrument :

MSVOA_V

ClientSampled :

E62T1

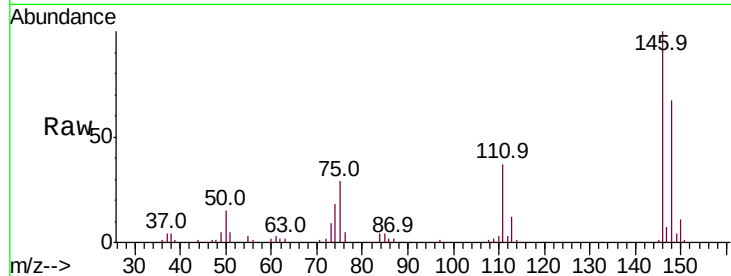
Tot Ion:146 Resp: 36464

Ion Ratio Lower Upper

146 100

111 37.2 25.8 48.0

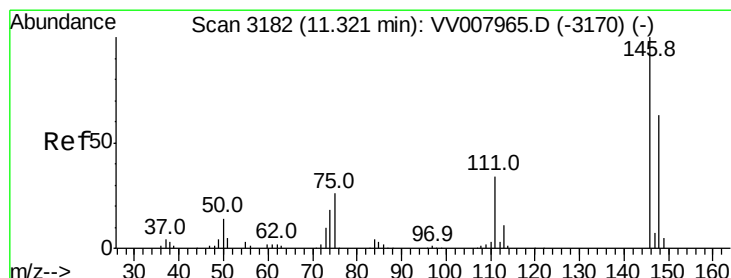
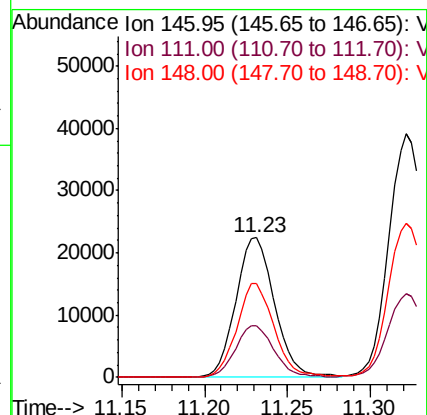
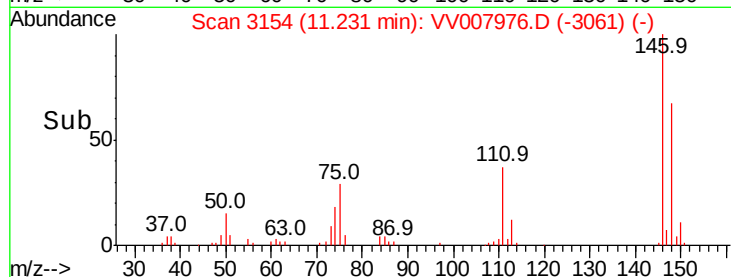
148 66.7 44.7 82.9



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



#63

1,4-Dichlorobenzene

Concen: 4.325 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV007976.D

Acq: 29 Sep 2018 01:51

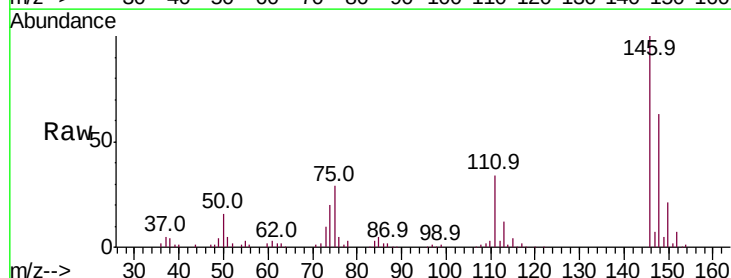
Tgt Ion:146 Resp: 62811

Ion Ratio Lower Upper

146 100

111 34.3 25.3 47.1

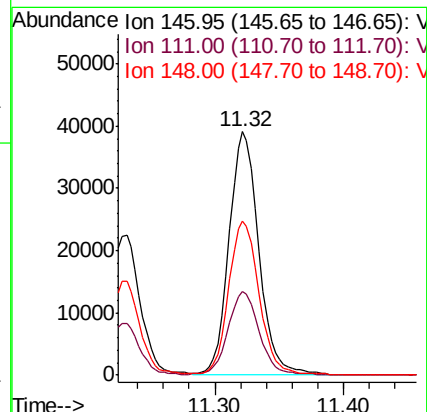
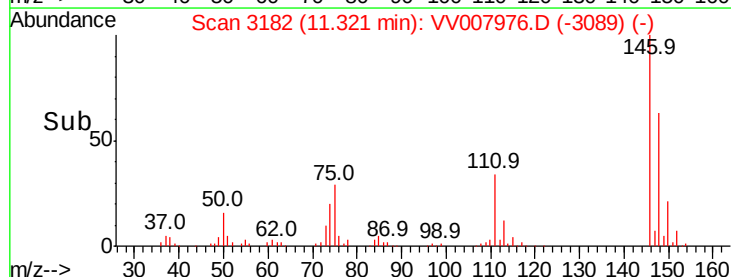
148 63.0 44.7 82.9

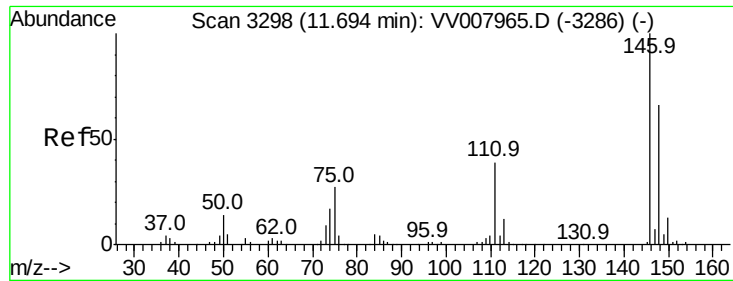


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

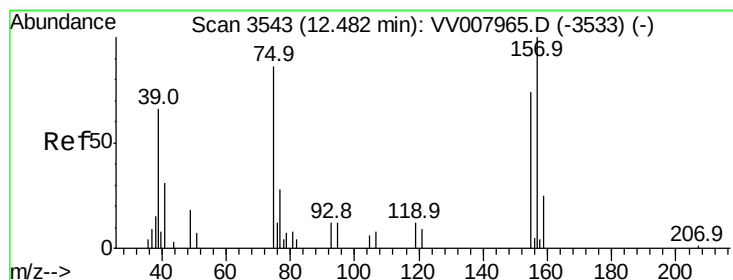
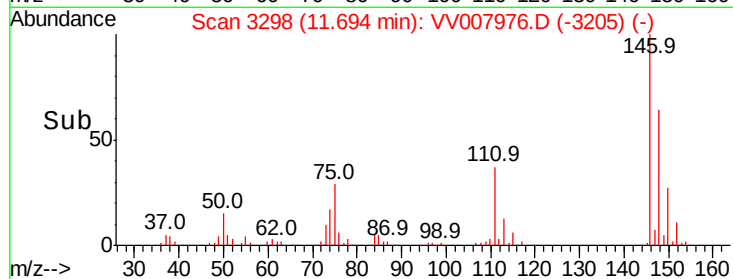
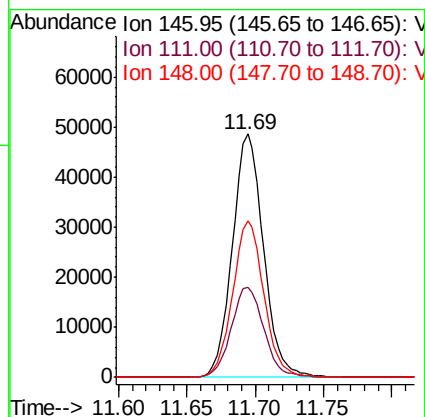
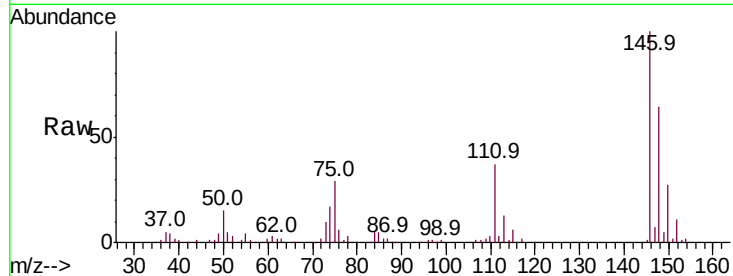




#65
 1,2-Dichlorobenzene
 Concen: 5.846 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VV007976.D
 Acq: 29 Sep 2018 01:51

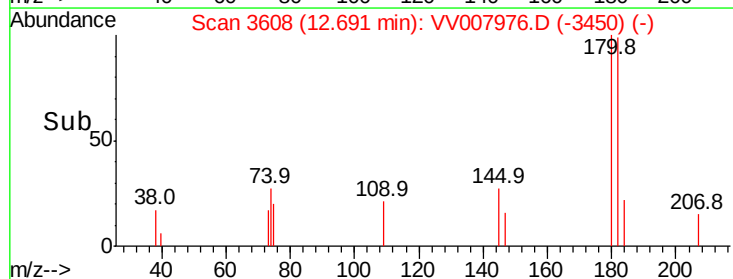
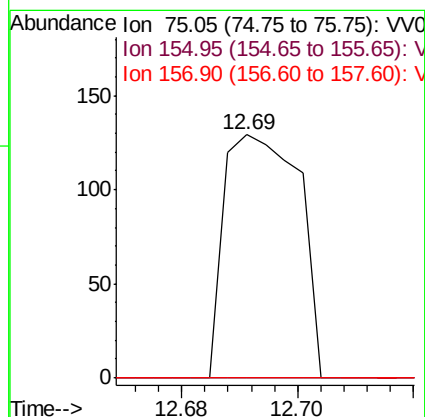
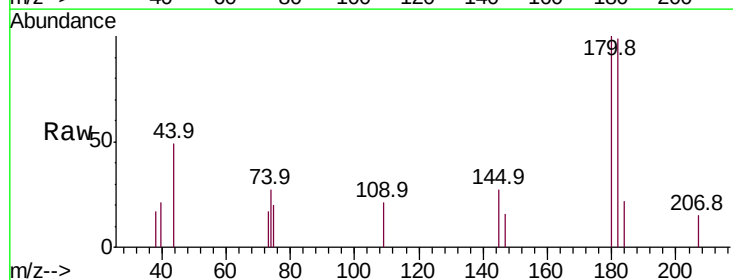
Instrument :
 MSVOA_V
 ClientSampled :
 E62T1

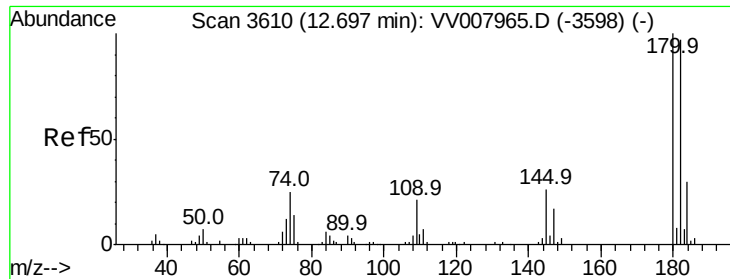
Tot Ion:146 Resp: 76979
 Ion Ratio Lower Upper
 146 100
 111 37.1 31.2 46.8
 148 64.3 50.3 75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.171 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.21 min
 Lab File: VV007976.D
 Acq: 29 Sep 2018 01:51

Tgt Ion: 75 Resp: 115
 Ion Ratio Lower Upper
 75 100
 155 0.0 83.4 125.2#
 157 0.0 93.9 140.9#

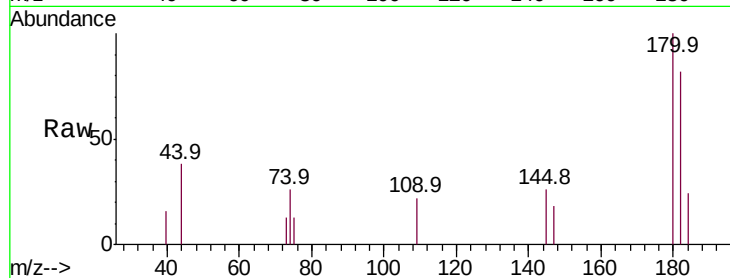




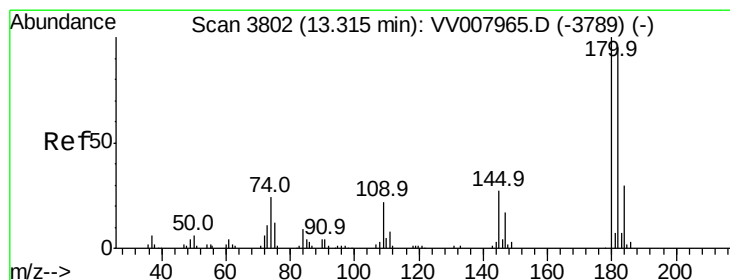
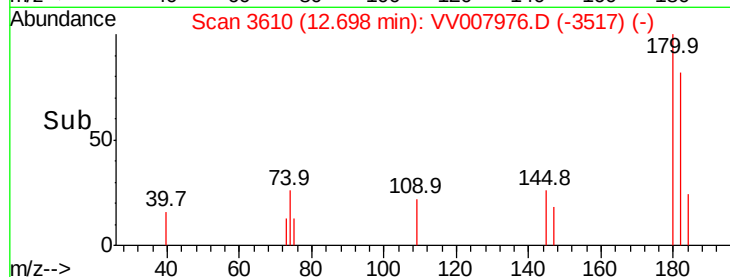
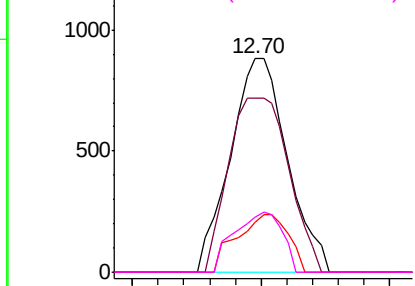
#67
 1,3,5-Trichlorobenzene
 Concen: 0.114 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV007976.D
 Acq: 29 Sep 2018 01:51

Instrument :
 MSVOA_V
 ClientSampled :
 E62T1

Tot Ion:180 Resp: 1361
 Ion Ratio Lower Upper
 180 100
 182 86.3 76.2 114.4
 184 24.5 24.5 36.7#
 145 23.8 22.2 33.4

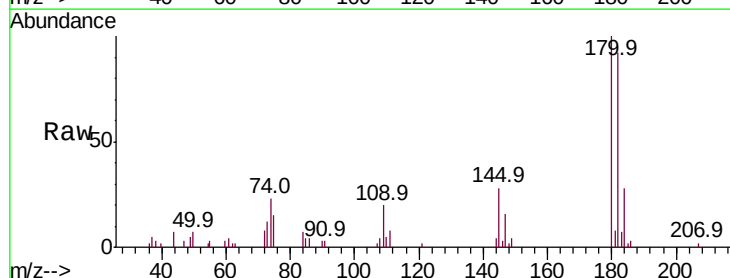


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

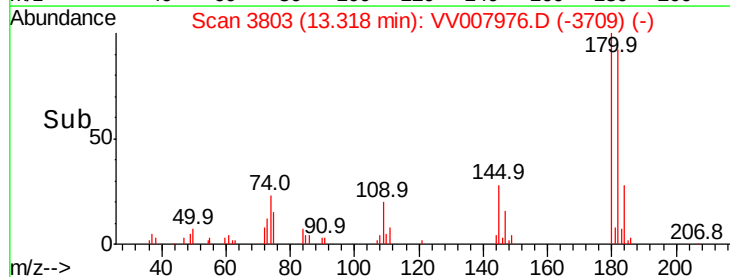
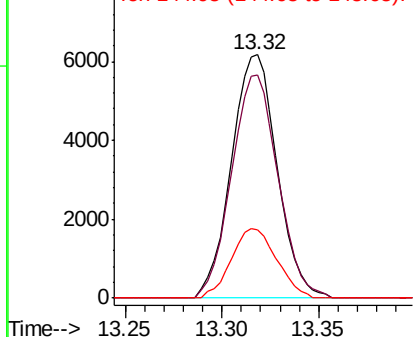


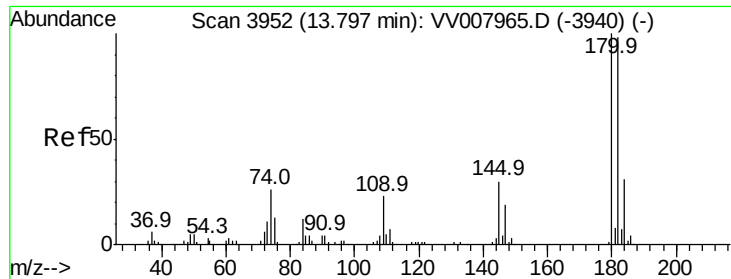
#68
 1,2,4-trichlorobenzene
 Concen: 1.003 ug/L
 RT: 13.32 min Scan# 3803
 Delta R.T. 0.00 min
 Lab File: VV007976.D
 Acq: 29 Sep 2018 01:51

Tgt Ion:180 Resp: 10141
 Ion Ratio Lower Upper
 180 100
 182 93.1 77.4 116.2
 145 28.3 22.6 33.8



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

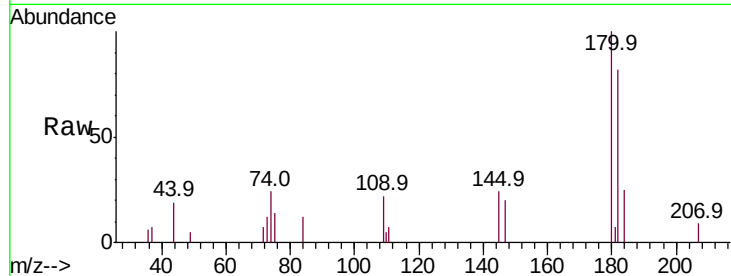




#70
 1,2,3-Trichlorobenzene
 Concen: 0.336 ug/L
 RT: 13.80 min Scan# 3954
 Delta R.T. 0.01 min
 Lab File: VV007976.D
 Acq: 29 Sep 2018 01:51

Instrument :
 MSVOA_V
 ClientSampleId :
 E62T1

Tot Ion:180 Resp: 3076
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.7 113.5
 145 30.3 23.4 35.0



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

