

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\
 Data File : VV016330.D
 Acq On : 29 May 2020 23:25
 Operator : SY/MD
 Sample : L2826-03
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 03:08:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 03:05:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	87682	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	81889	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	36582	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25667	4.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.20%
7) Chloroethane-d5	1.58	69	20172	4.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.60%
11) 1,1-Dichloroethene-d2	2.13	63	38552	3.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.00%
20) 2-Butanone-d5	3.94	46	72235	51.71	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.42%
24) Chloroform-d	4.38	84	49285	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.00%
26) 1,2-Dichloroethane-d4	5.06	65	27722	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.08	84	98552	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.10	67	30652	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.34	98	88708	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
45) trans-1,3-Dichloropropene-	7.65	79	9889	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
48) 2-Hexanone-d5	8.12	63	53818	50.16	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.32%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	21217	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	30522	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	3547	0.420	ug/L	94
5) Vinyl chloride	1.32	62	2280	0.297	ug/L #	76
8) Chloroethane	1.59	64	841	0.196	ug/L #	53
12) 1,1-Dichloroethene	2.14	96	3566	0.690	ug/L #	1
13) Acetone	2.21	43	1018	1.177	ug/L	100
14) Carbon disulfide	2.31	76	3167	0.198	ug/L #	94
18) trans-1,2-Dichloroethene	2.78	96	47585	8.408	ug/L	95
19) 1,1-Dichloroethane	3.21	63	2730	0.254	ug/L	95
22) cis-1,2-Dichloroethene	3.94	96	294192	43.951	ug/L	97
25) Chloroform	4.41	83	1365	0.120	ug/L	90
27) 1,2-Dichloroethane	5.07	62	738	0.099	ug/L #	79
34) Trichloroethene	5.94	95	400951	65.312	ug/L	98
35) Methylcyclohexane	6.10	83	7365	0.711	ug/L #	16
37) 1,2-Dichloropropane	6.09	63	3999	0.692	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	863	0.105	ug/L #	45
46) trans-1,3-Dichloropropene	7.64	75	458	0.067	ug/L #	44
49) Tetrachloroethene	8.00	164	1128	0.256	ug/L	93

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 30 03:05:25 2020
Response via : Initial Calibration

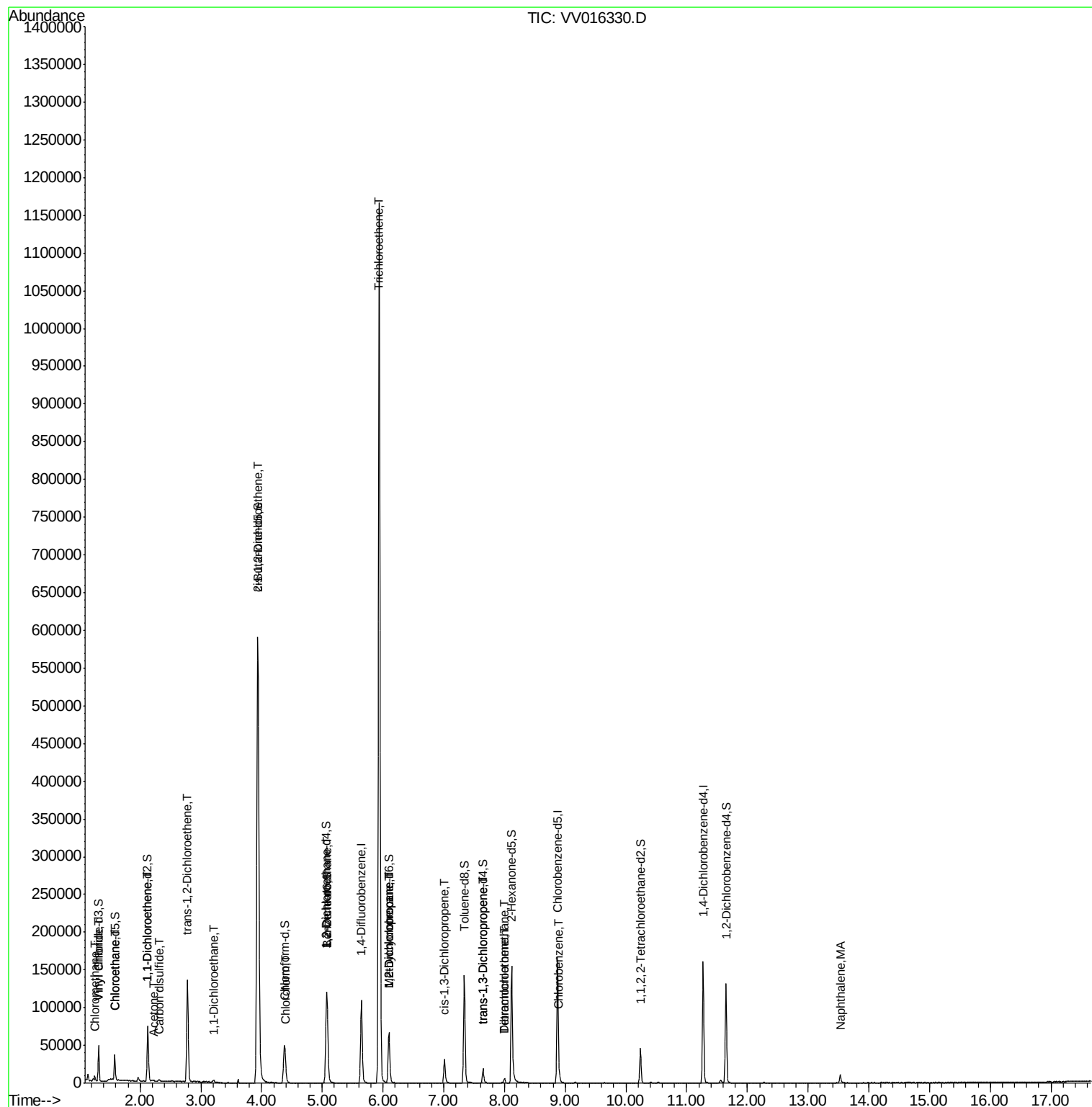
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Dibromochloromethane	8.00	129	1223	0.304	ug/L #	10
53) Chlorobenzene	8.90	112	3848	0.242	ug/L	95
70) Naphthalene	13.53	128	9104	0.601	ug/L #	95

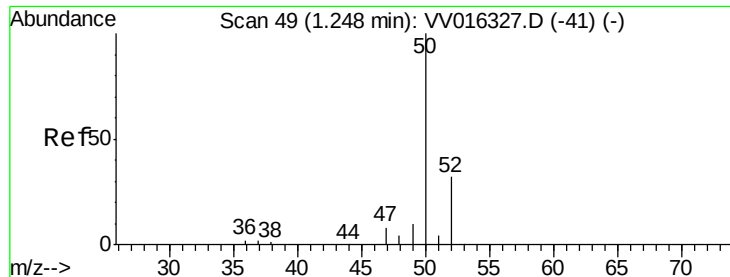
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.420 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV016330.D

Acq: 29 May 2020 23:25

Instrument :

MSVOA_V

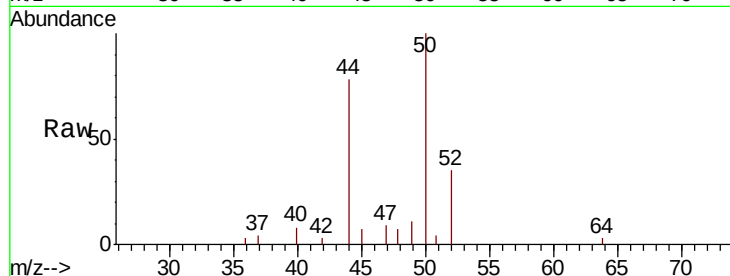
ClientSampleId :

Tot Ion: 50 Resp: 3547

Ion Ratio Lower Upper

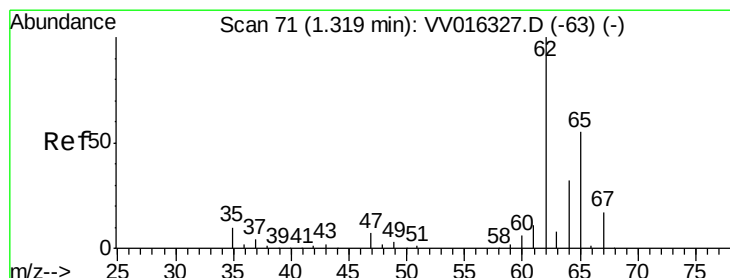
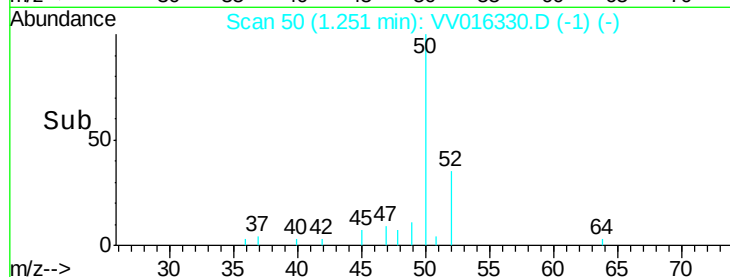
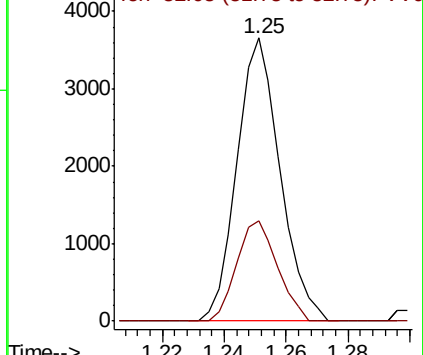
50 100

52 35.4 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 0.297 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016330.D

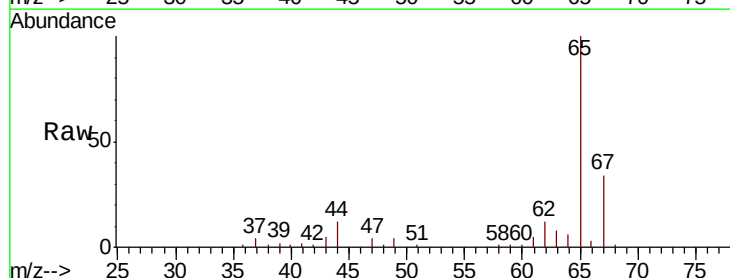
Acq: 29 May 2020 23:25

Tgt Ion: 62 Resp: 2280

Ion Ratio Lower Upper

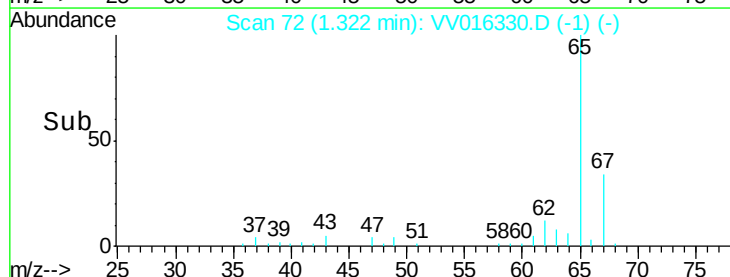
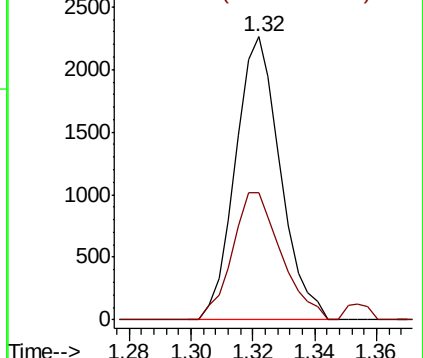
62 100

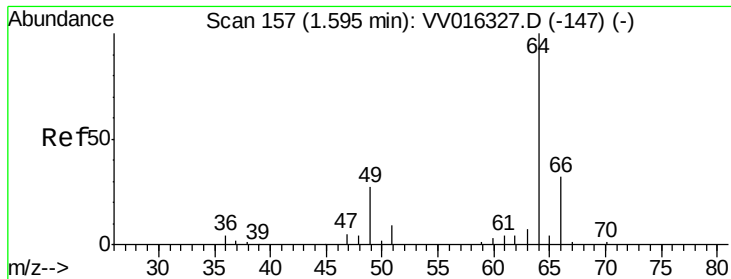
64 44.8 22.1 41.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

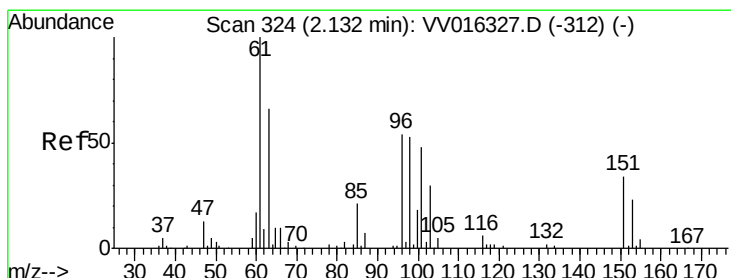
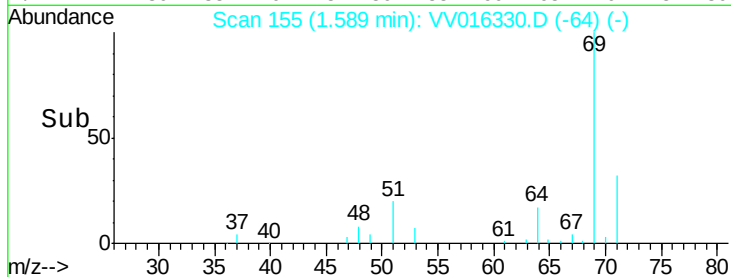
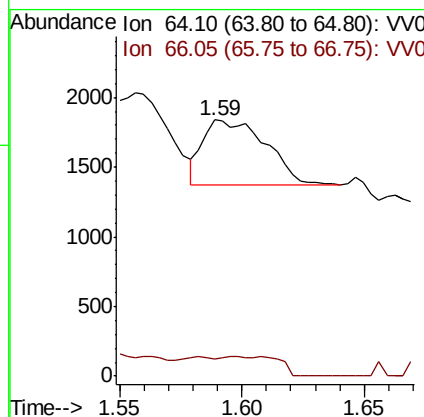
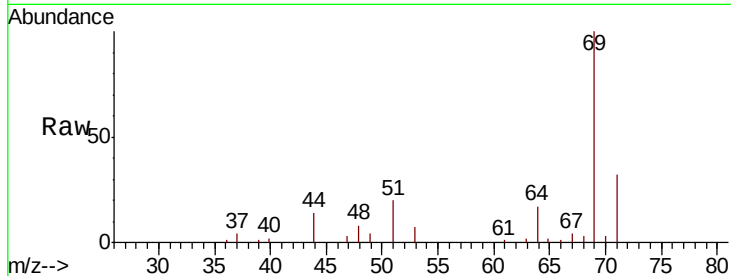




#8
 Chloroethane
 Concen: 0.196 ug/L
 RT: 1.59 min Scan# 155
 Delta R.T. -0.01 min
 Lab File: VV016330.D
 Acq: 29 May 2020 23:25

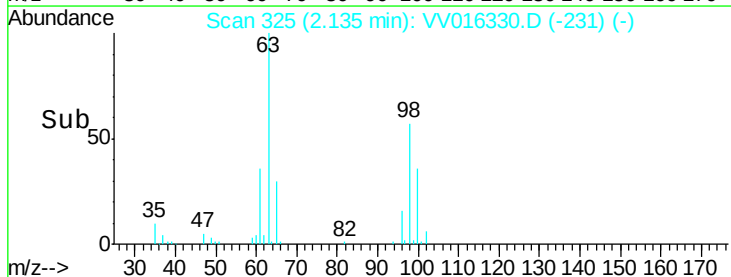
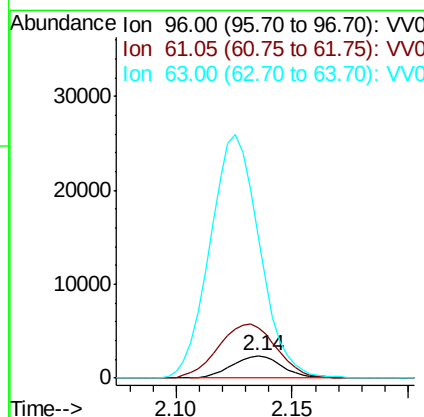
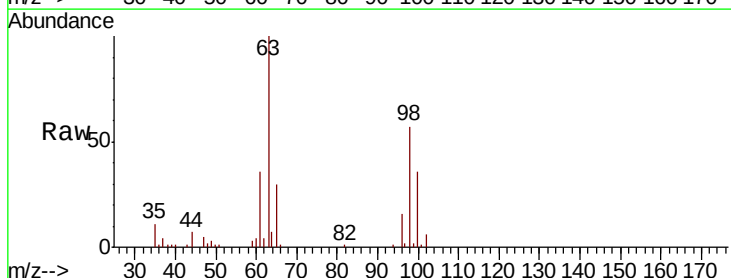
Instrument :
 MSVOA_V
 ClientSampleId :

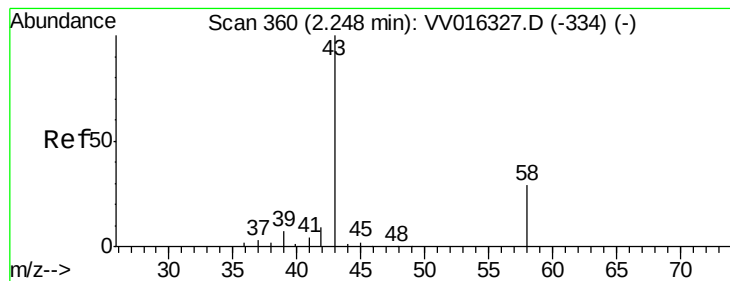
Tot Ion: 64 Resp: 841
 Ion Ratio Lower Upper
 64 100
 66 6.2 22.9 42.5#



#12
 1,1-Dichloroethene
 Concen: 0.690 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VV016330.D
 Acq: 29 May 2020 23:25

Tgt Ion: 96 Resp: 3566
 Ion Ratio Lower Upper
 96 100
 61 222.7 124.9 231.9
 63 622.2 80.4 149.2#





#13

Acetone

Concen: 1.177 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.04 min

Lab File: VV016330.D

Acq: 29 May 2020 23:25

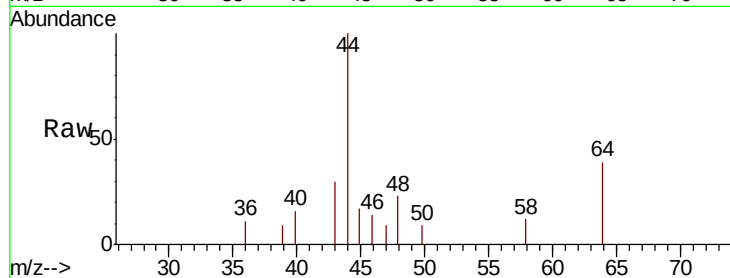
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 1018

Ion Ratio Lower Upper

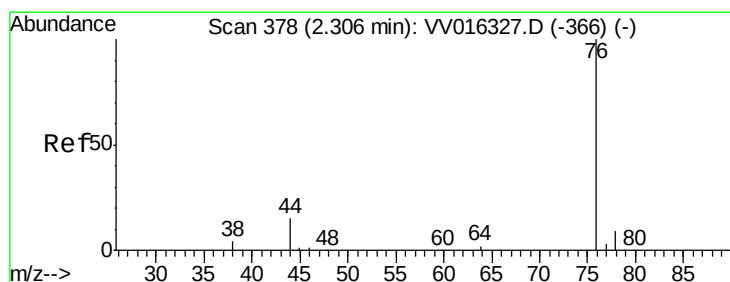
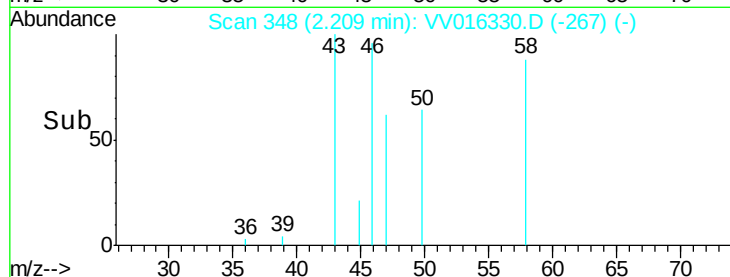
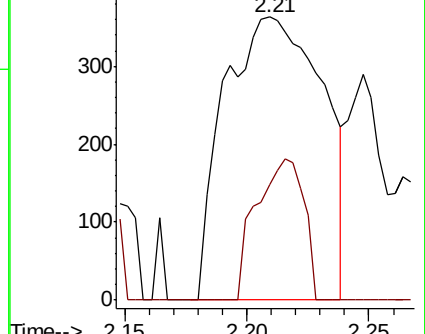
43 100

58 24.2 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 0.198 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV016330.D

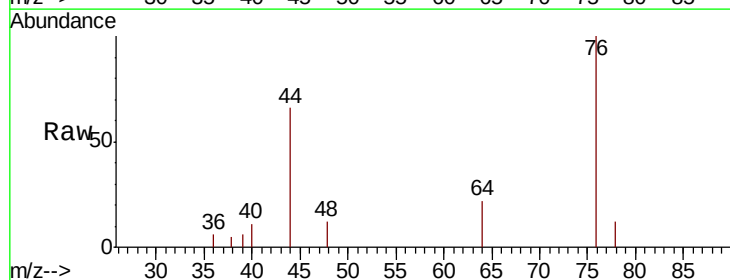
Acq: 29 May 2020 23:25

Tgt Ion: 76 Resp: 3167

Ion Ratio Lower Upper

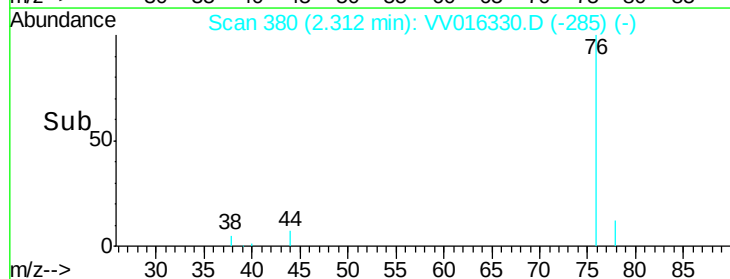
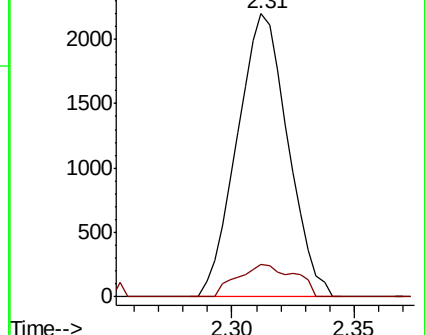
76 100

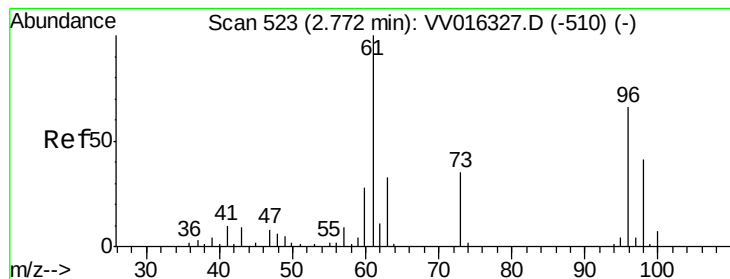
78 11.6 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





#18

trans-1,2-Dichloroethene

Concen: 8.408 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV016330.D

Acq: 29 May 2020 23:25

Instrument :
MSVOA_V
ClientSampled :

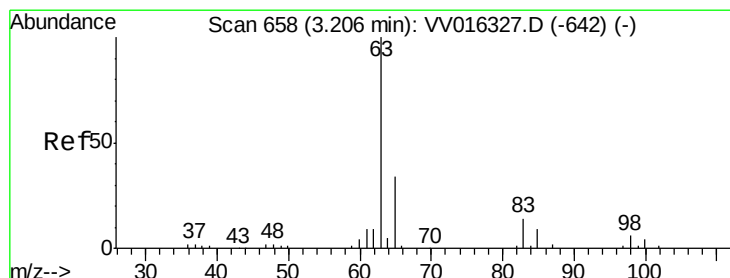
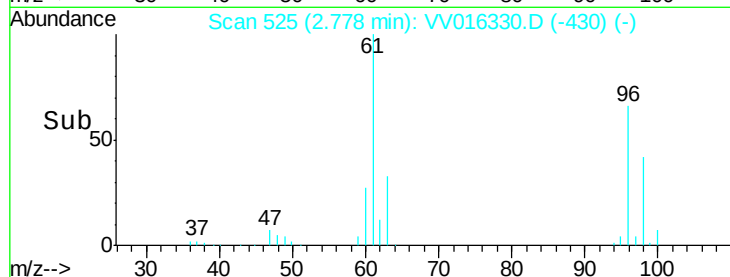
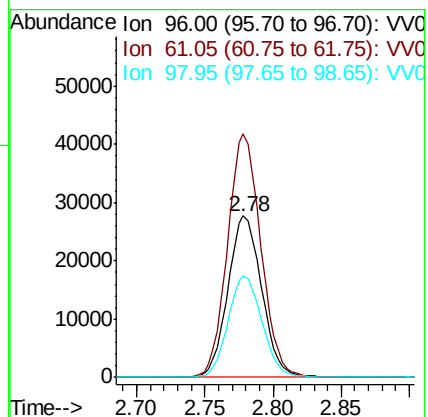
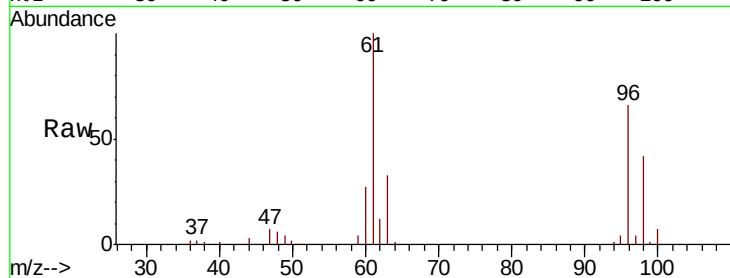
Tot Ion: 96 Resp: 47585

Ion Ratio Lower Upper

96 100

61 150.9 99.8 185.4

98 62.6 44.0 81.6



#19

1,1-Dichloroethane

Concen: 0.254 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.01 min

Lab File: VV016330.D

Acq: 29 May 2020 23:25

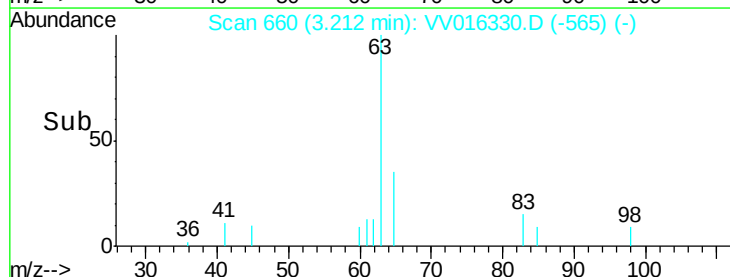
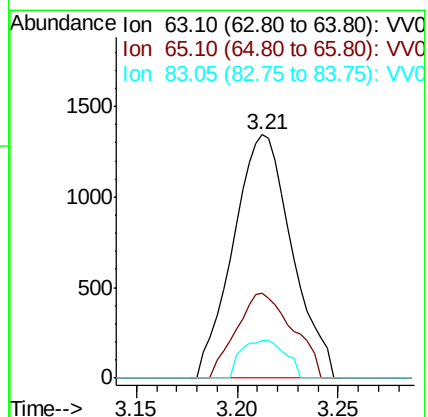
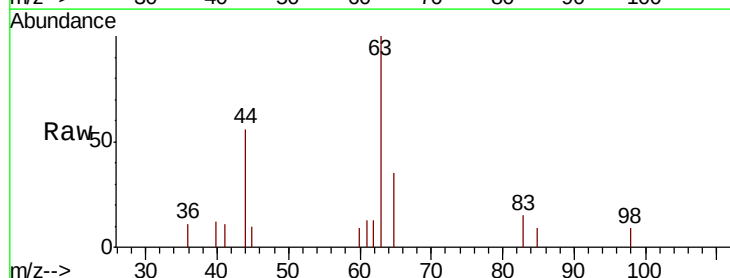
Tgt Ion: 63 Resp: 2730

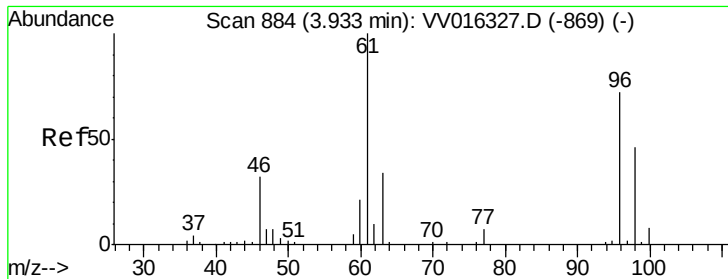
Ion Ratio Lower Upper

63 100

65 35.0 22.3 41.5

83 15.3 9.4 17.4



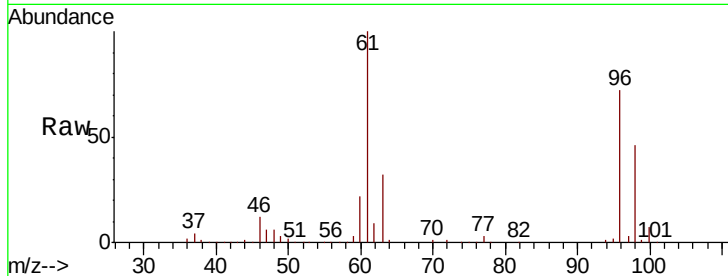


#22

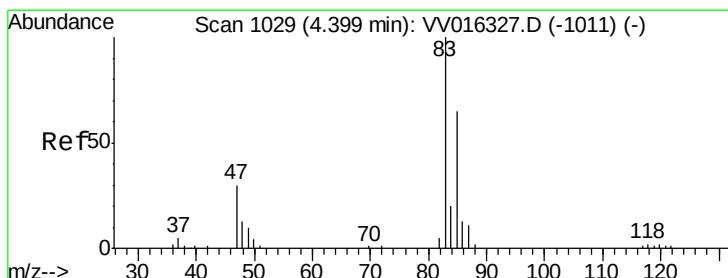
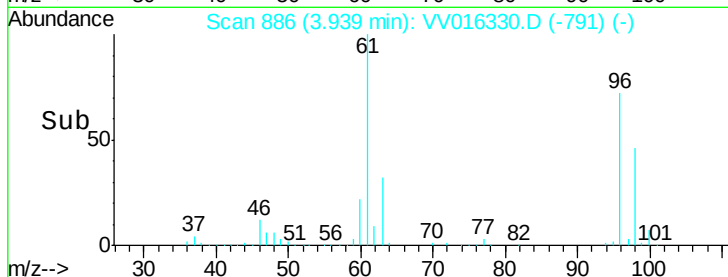
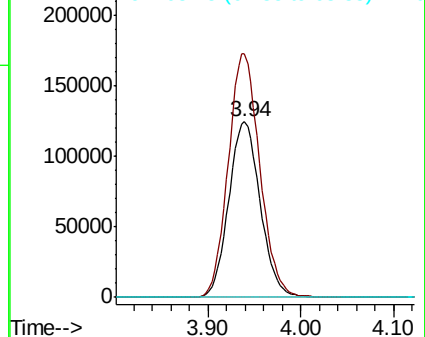
cis-1,2-Dichloroethene
 Concen: 43.951 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.01 min
 Lab File: VV016330.D
 Acq: 29 May 2020 23:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 294192
 Ion Ratio Lower Upper
 96 100
 61 138.8 99.7 185.1
 68 0.0 0.0 0.0



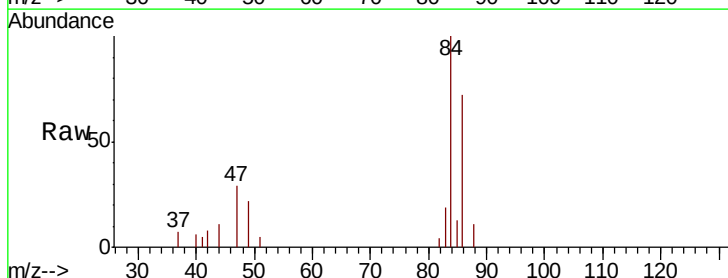
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



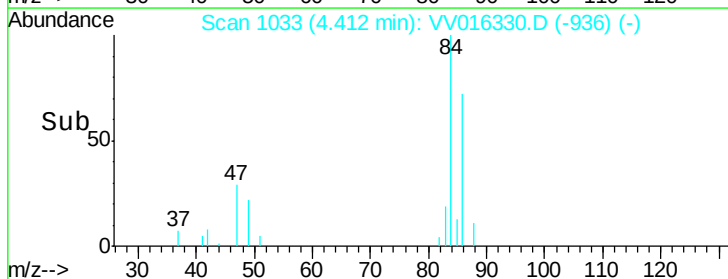
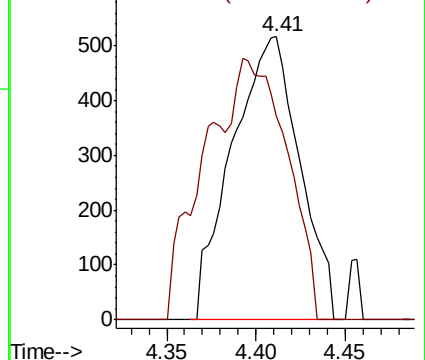
#25

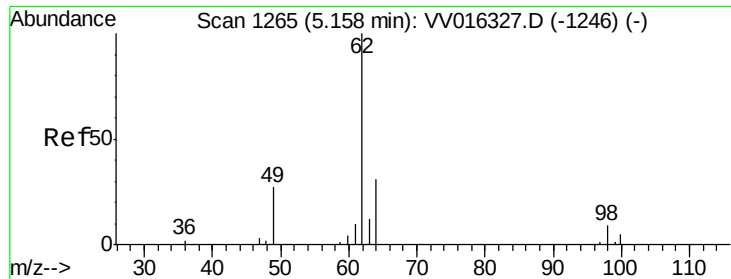
Chloroform
 Concen: 0.120 ug/L
 RT: 4.41 min Scan# 1033
 Delta R.T. 0.01 min
 Lab File: VV016330.D
 Acq: 29 May 2020 23:25

Tgt Ion: 83 Resp: 1365
 Ion Ratio Lower Upper
 83 100
 85 72.0 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 0.099 ug/L

RT: 5.07 min Scan# 1239

Delta R.T. -0.08 min

Lab File: VV016330.D

Acq: 29 May 2020 23:25

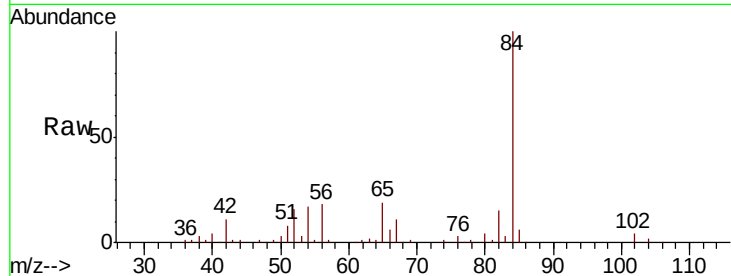
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 738

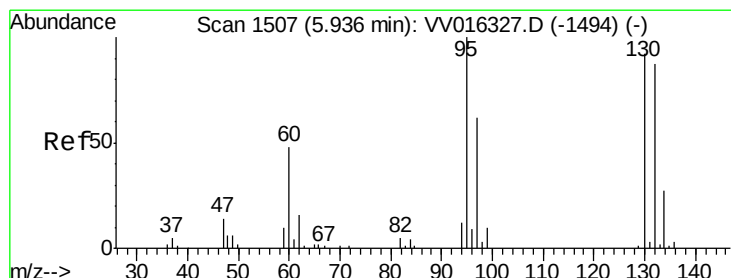
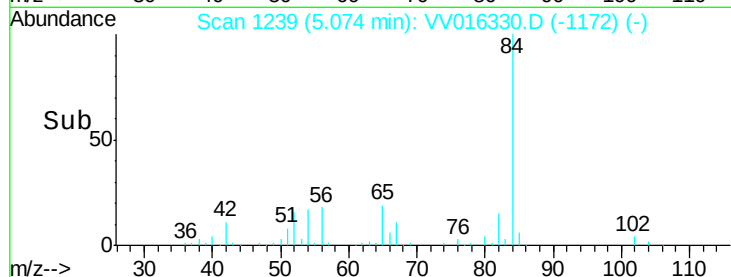
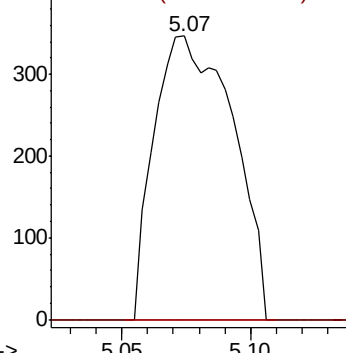
Ion Ratio Lower Upper

62 100

98 0.0 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0



#34

Trichloroethene

Concen: 65.312 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV016330.D

Acq: 29 May 2020 23:25

Tgt Ion: 95 Resp: 400951

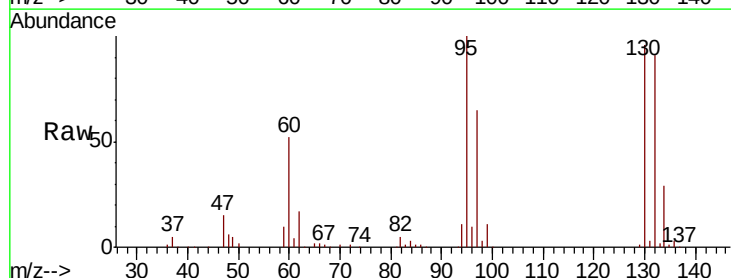
Ion Ratio Lower Upper

95 100

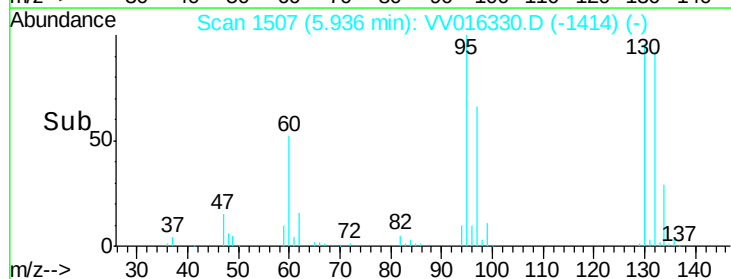
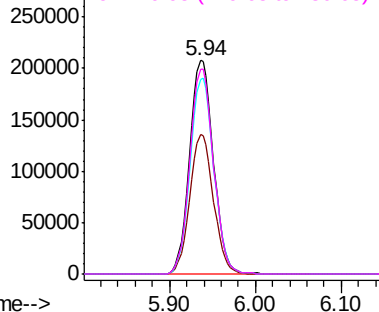
97 65.3 43.6 81.0

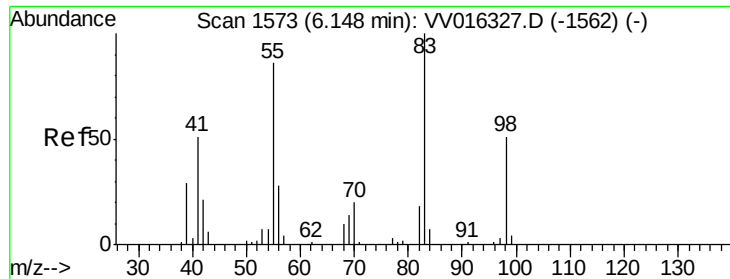
132 91.3 63.9 118.7

130 95.8 65.2 121.0



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): VV0
Ion 129.95 (129.65 to 130.65): VV0

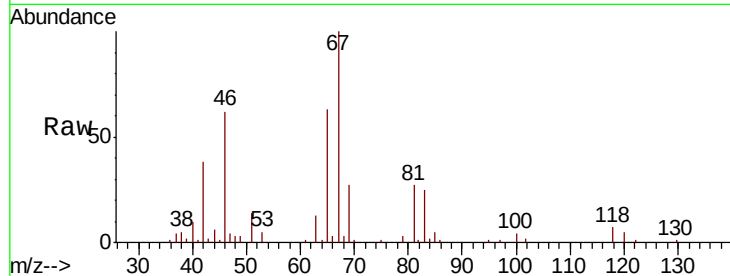




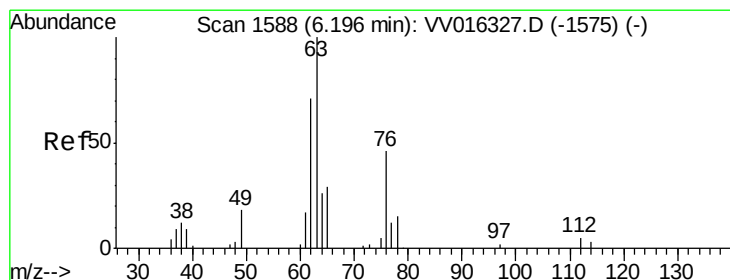
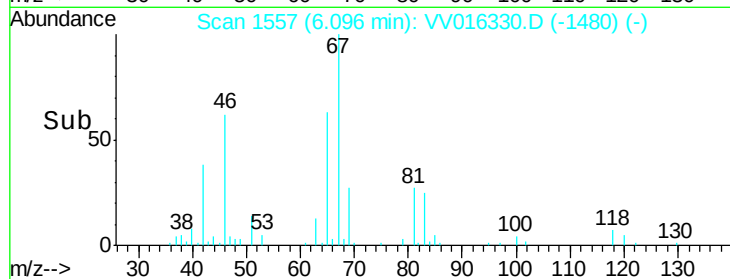
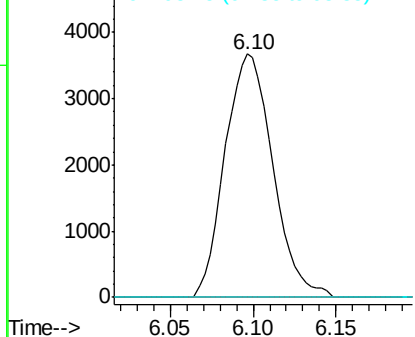
#35
Methylvlcyclohexane
Concen: 0.711 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV016330.D
Acq: 29 May 2020 23:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 7365
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 39.3 58.9#

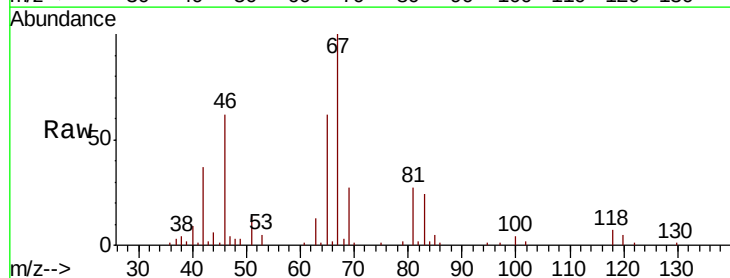


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

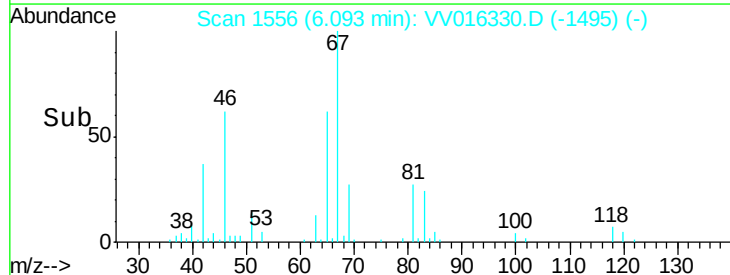
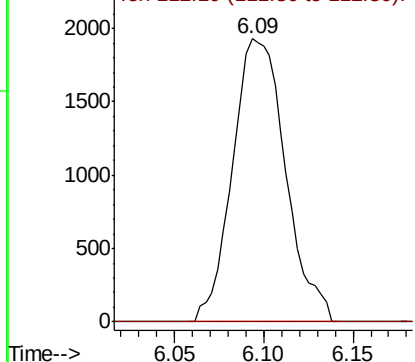


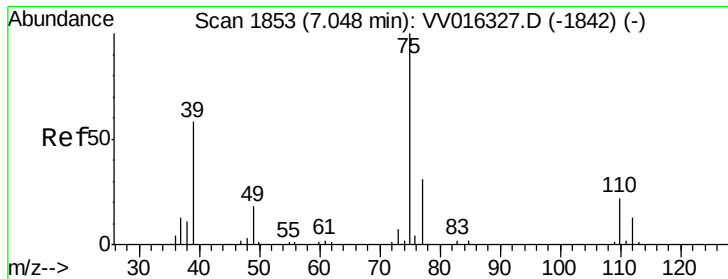
#37
1,2-Dichloropropane
Concen: 0.692 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.10 min
Lab File: VV016330.D
Acq: 29 May 2020 23:25

Tgt Ion: 63 Resp: 3999
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



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



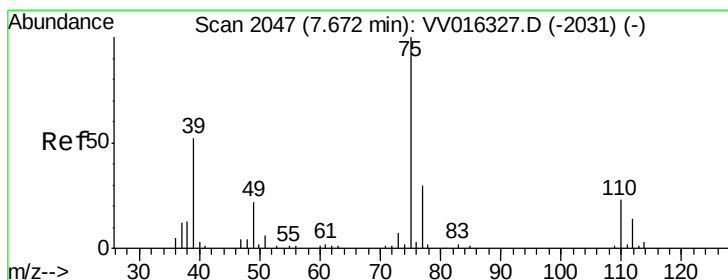
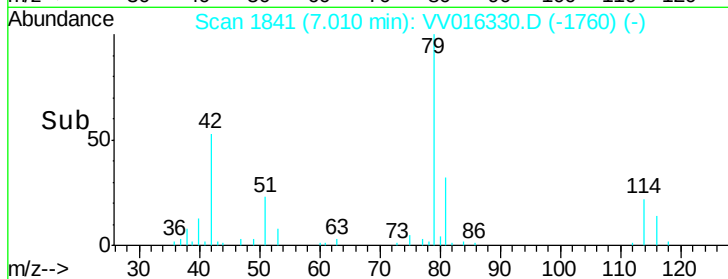
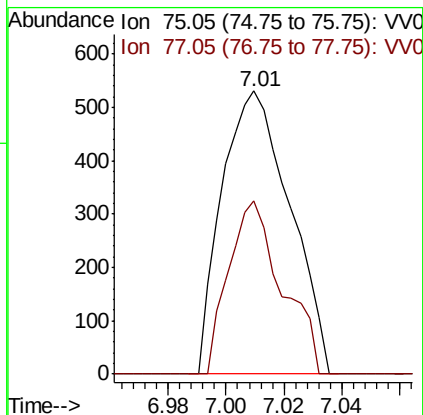
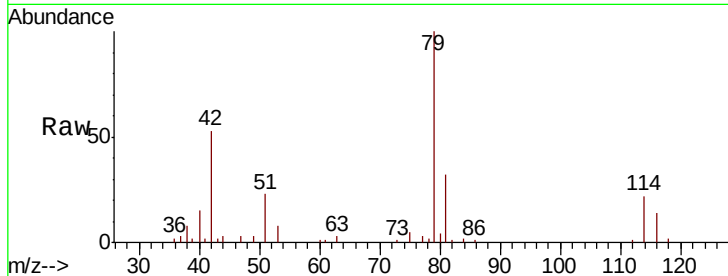


#39

cis-1,3-Dichloropropene
 Concen: 0.105 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV016330.D
 Acq: 29 May 2020 23:25

Instrument :
 MSVOA_V
 ClientSampleId :

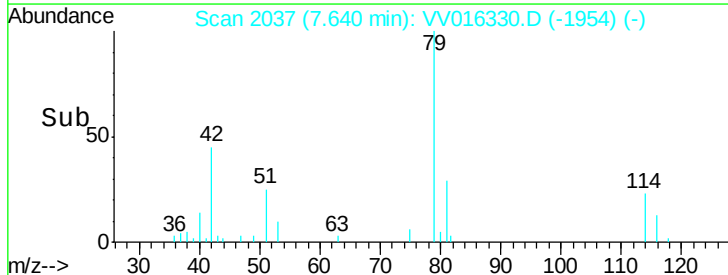
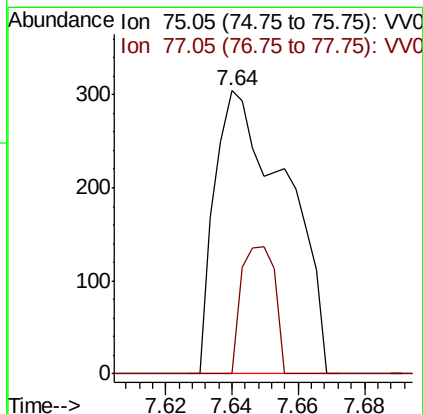
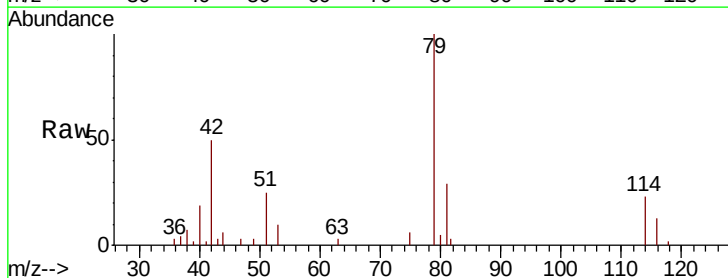
Tot Ion: 75 Resp: 863
 Ion Ratio Lower Upper
 75 100
 77 61.4 21.7 40.3#

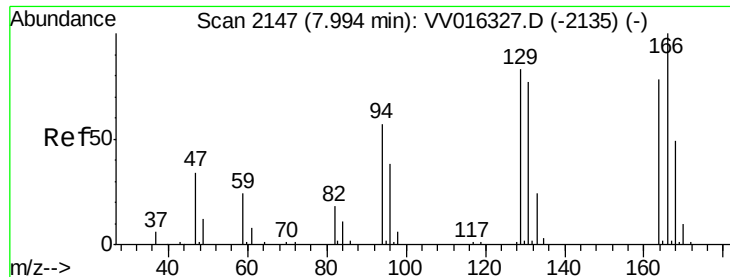


#46

trans-1,3-Dichloropropene
 Concen: 0.067 ug/L
 RT: 7.64 min Scan# 2037
 Delta R.T. -0.03 min
 Lab File: VV016330.D
 Acq: 29 May 2020 23:25

Tgt Ion: 75 Resp: 458
 Ion Ratio Lower Upper
 75 100
 77 0.0 21.7 40.3#





#49

Tetrachloroethene

Concen: 0.256 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV016330.D

Acq: 29 May 2020 23:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 1128

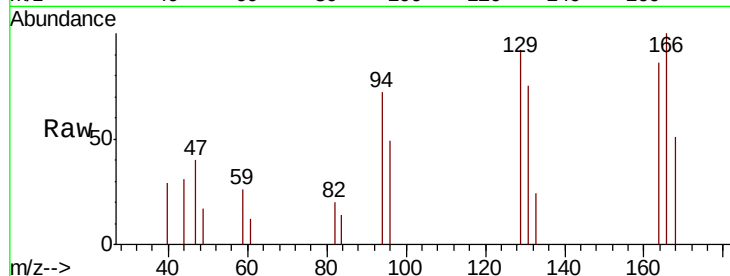
Ion Ratio Lower Upper

164 100

129 107.0 70.7 131.3

131 87.0 66.6 123.8

166 116.0 86.9 161.5

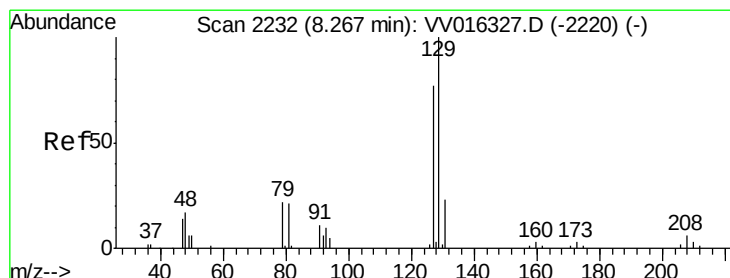
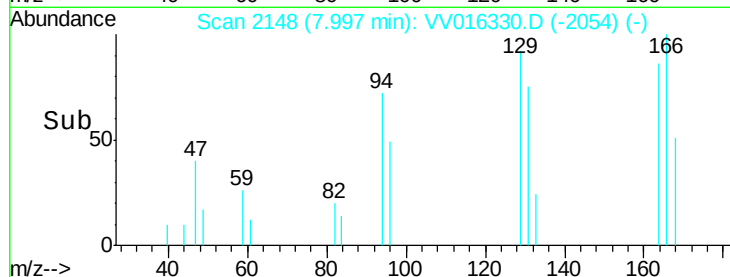
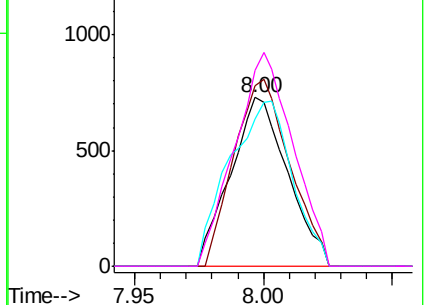


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#51

Dibromochloromethane

Concen: 0.304 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. -0.27 min

Lab File: VV016330.D

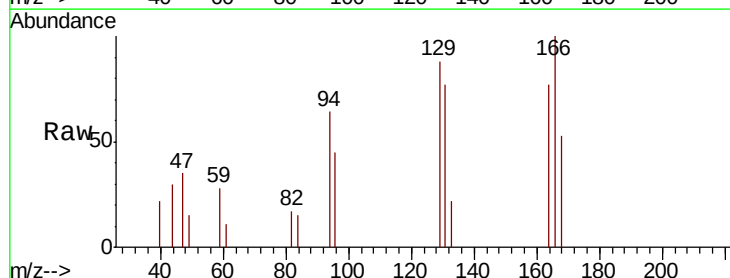
Acq: 29 May 2020 23:25

Tgt Ion:129 Resp: 1223

Ion Ratio Lower Upper

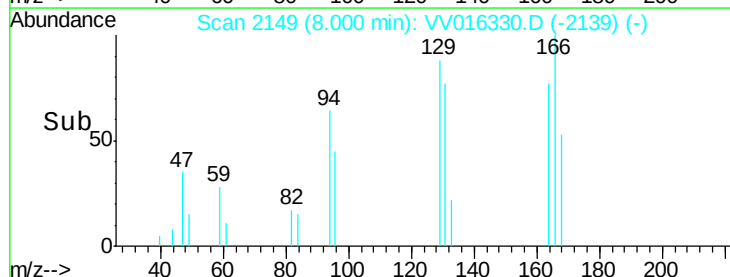
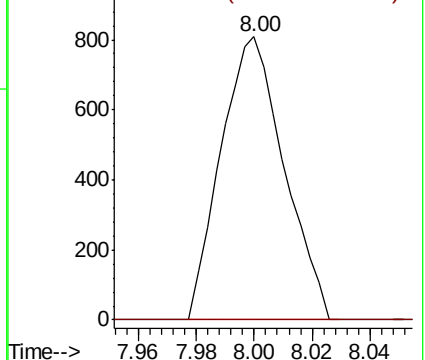
129 100

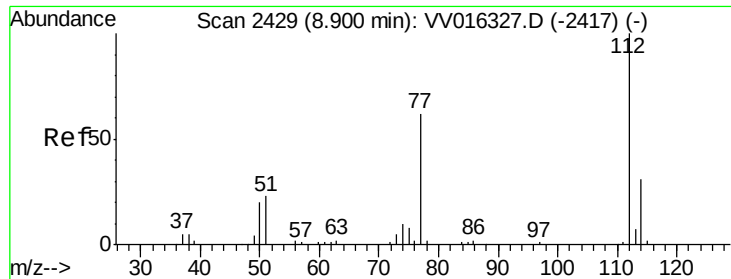
127 0.0 55.2 102.4#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

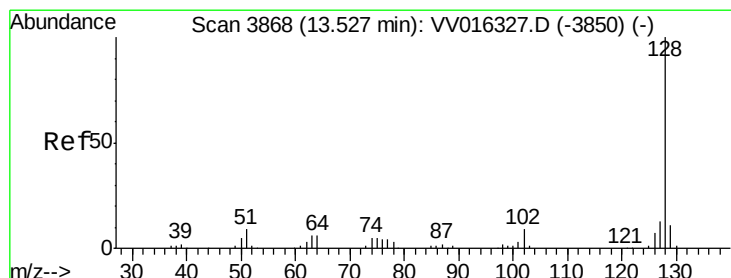
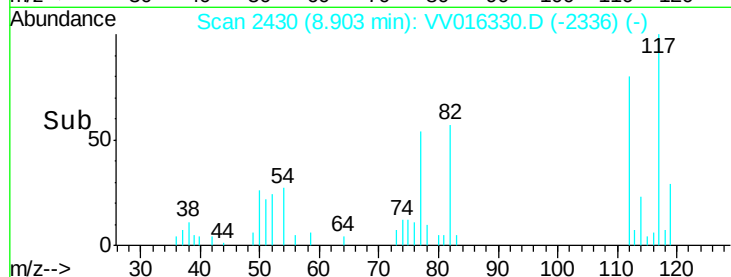
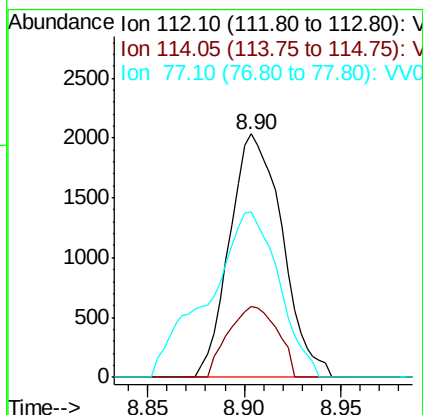
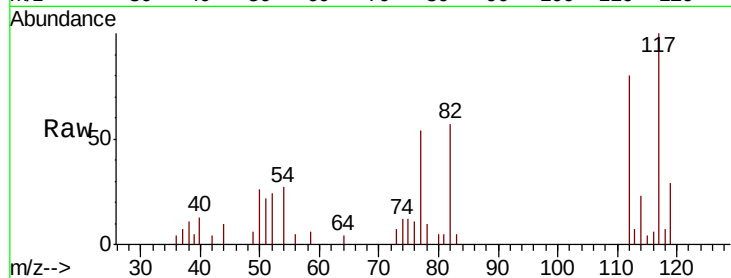




#53
Chlorobenzene
Concen: 0.242 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016330.D
Acq: 29 May 2020 23:25

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:112 Resp: 3848
Ion Ratio Lower Upper
112 100
114 29.1 22.3 41.3
77 67.8 50.7 76.1



#70
Naphthalene
Concen: 0.601 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.00 min
Lab File: VV016330.D
Acq: 29 May 2020 23:25

Tgt Ion:128 Resp: 9104
Ion Ratio Lower Upper
128 100
129 9.8 8.6 13.0
127 10.3 10.6 15.8#

