

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050820\
 Data File : VV015971.D
 Acq On : 08 May 2020 17:30
 Operator : SY/MD
 Sample : L2520-12
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 09 00:50:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 09 00:44:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	141355	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	139129	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	64525	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	34617	4.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.20%
7) Chloroethane-d5	1.58	69	34048	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.60%
11) 1,1-Dichloroethene-d2	2.12	63	57446	3.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.60%
20) 2-Butanone-d5	3.92	46	116484	53.25	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.50%
24) Chloroform-d	4.38	84	85709	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.20%
26) 1,2-Dichloroethane-d4	5.06	65	48852	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%
32) Benzene-d6	5.08	84	162250	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.10	67	52351	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.34	98	147656	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
45) trans-1,3-Dichloropropene-	7.65	79	18283	4.61	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.20%
48) 2-Hexanone-d5	8.12	63	84994	48.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.56%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	37145	5.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	57153	5.46	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	1693	0.156 ug/L	98
3) Chloromethane	1.25	50	1067	0.097 ug/L #	73
8) Chloroethane	1.80	64	1667	0.223 ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	807	0.099 ug/L #	49
12) 1,1-Dichloroethene	2.14	96	2105	0.271 ug/L #	1
14) Carbon disulfide	2.31	76	13232	0.515 ug/L #	90
17) Methyl tert-butyl Ether	2.79	73	3724	0.184 ug/L #	89
22) cis-1,2-Dichloroethene	3.94	96	2470	0.274 ug/L	85
25) Chloroform	4.41	83	6488	0.356 ug/L	98
34) Trichloroethene	5.94	95	13284	1.330 ug/L	96
35) Methylcyclohexane	6.09	83	12904	0.854 ug/L #	16
37) 1,2-Dichloropropane	6.10	63	6496	0.730 ug/L #	87
38) Bromodichloromethane	6.54	83	526	0.047 ug/L #	80
39) cis-1,3-Dichloropropene	7.01	75	1502	0.119 ug/L	97
46) trans-1,3-Dichloropropene	7.65	75	933	0.088 ug/L	94
47) 1,1,2-Trichloroethane	8.00	97	710	0.120 ug/L #	1
49) Tetrachloroethene	8.00	164	64172	9.205 ug/L	99

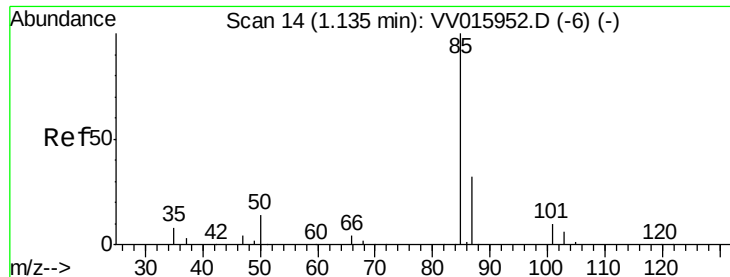
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050820\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 09 00:44:25 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	8.18	43	4834	1.233	ug/L #	83
51) Dibromochloromethane	8.00	129	62472	9.362	ug/L #	9

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



#2

Dichlorodifluoromethane

Concen: 0.156 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.01 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

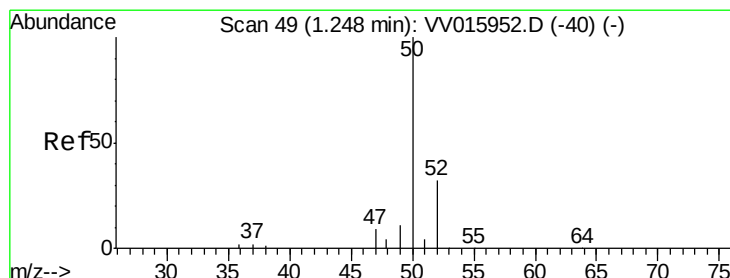
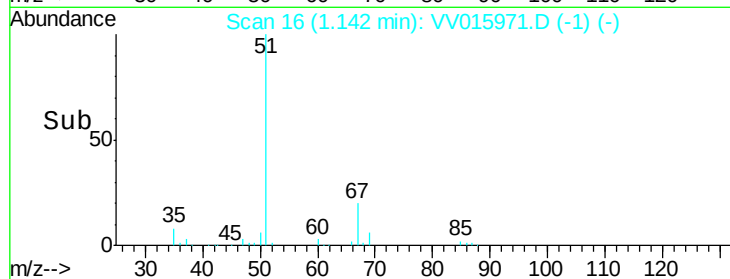
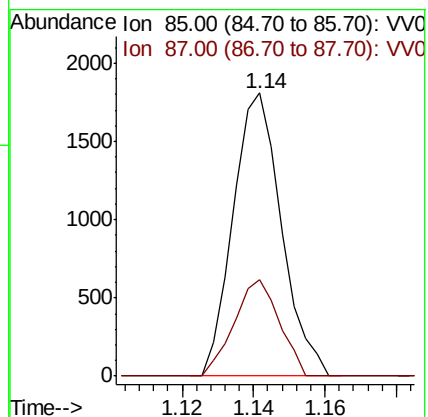
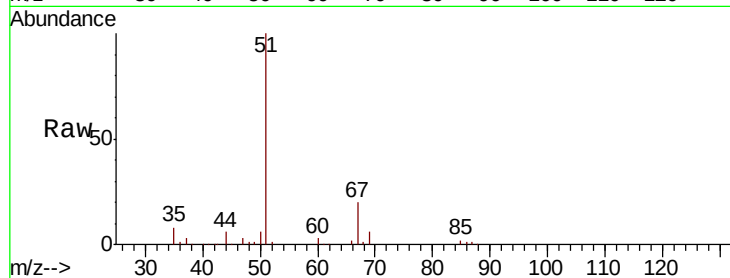
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 1693

Ion Ratio Lower Upper

85 100

87 31.9 26.4 39.6



#3

Chloromethane

Concen: 0.097 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV015971.D

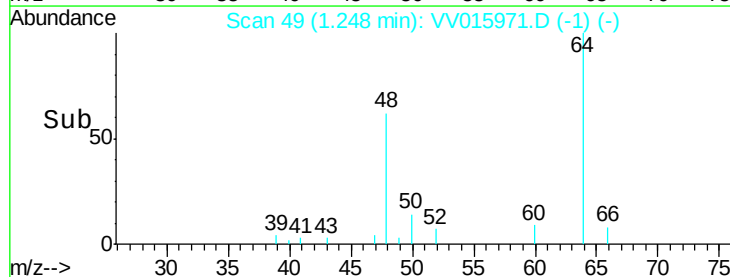
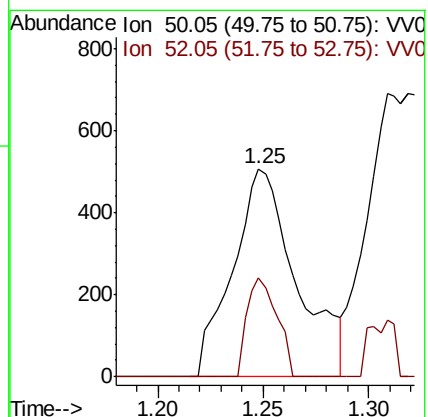
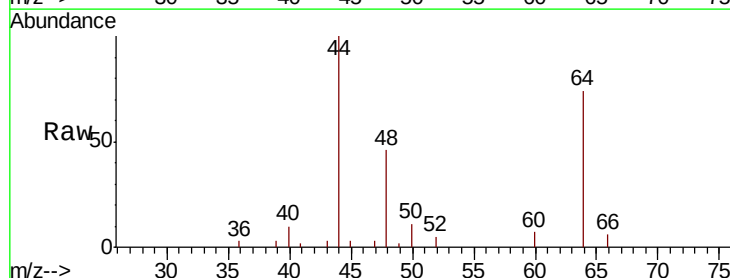
Acq: 08 May 2020 17:30

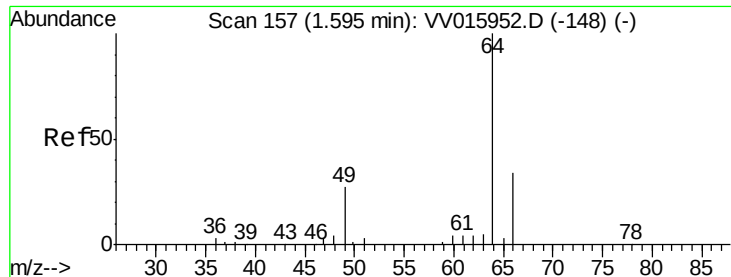
Tgt Ion: 50 Resp: 1067

Ion Ratio Lower Upper

50 100

52 47.5 22.8 42.4#





#8

Chloroethane

Concen: 0.223 ug/L

RT: 1.80 min Scan# 220

Delta R.T. 0.20 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

Instrument :

MSVOA_V

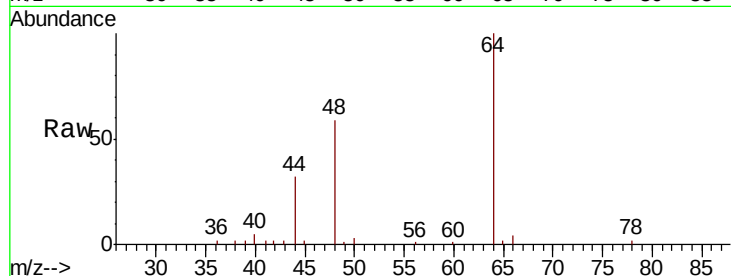
ClientSampleId :

Tot Ion: 64 Resp: 1667

Ion Ratio Lower Upper

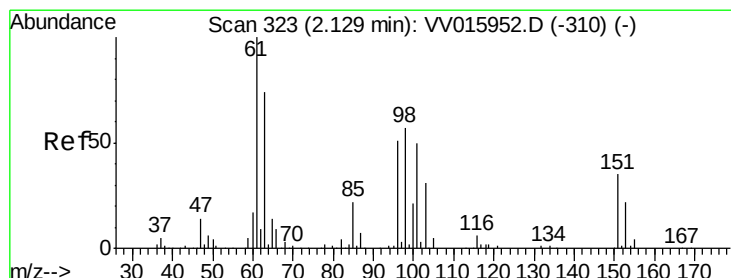
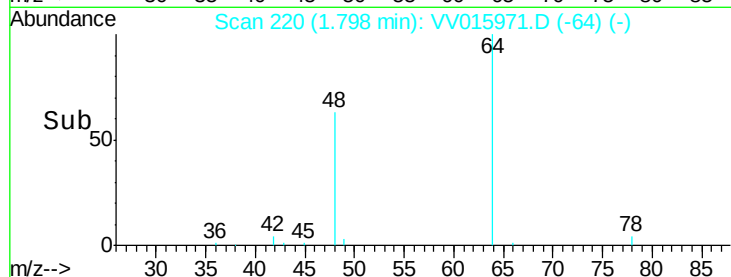
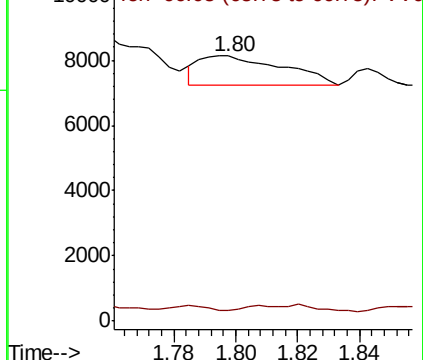
64 100

66 3.9 23.6 43.8#



Abundance Ion 64.10 (63.80 to 64.80): VV015971.D (-64) (-)

Ion 66.05 (65.75 to 66.75): VV015971.D (-66) (-)



#10

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

Concen: 0.099 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

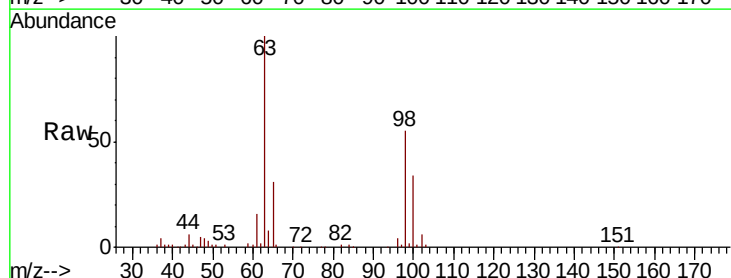
Tgt Ion: 101 Resp: 807

Ion Ratio Lower Upper

101 100

85 16.5 35.7 53.5#

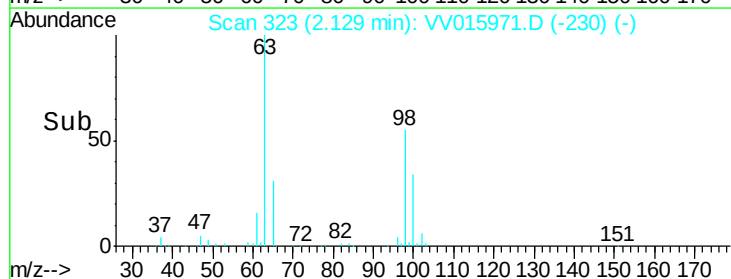
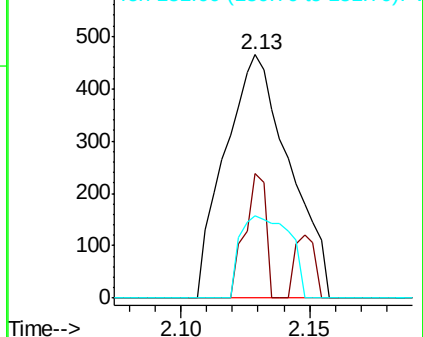
151 26.0 58.0 87.0#

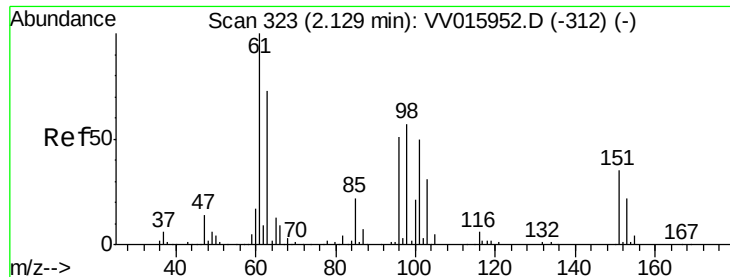


Abundance Ion 101.00 (100.70 to 101.70): VV015971.D (-101) (-)

Ion 85.00 (84.70 to 85.70): VV015971.D (-85) (-)

Ion 151.00 (150.70 to 151.70): VV015971.D (-151) (-)

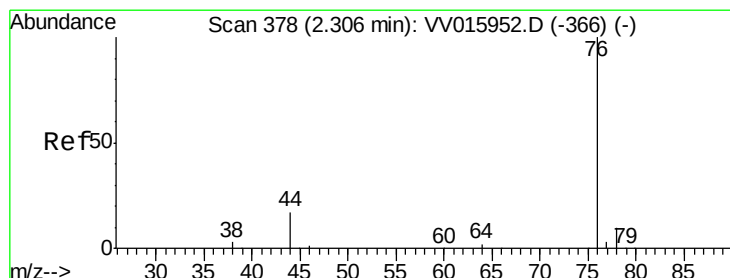
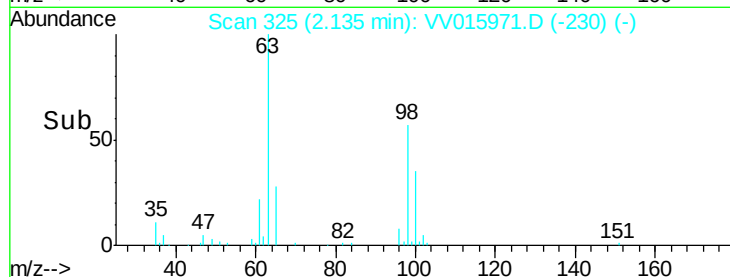
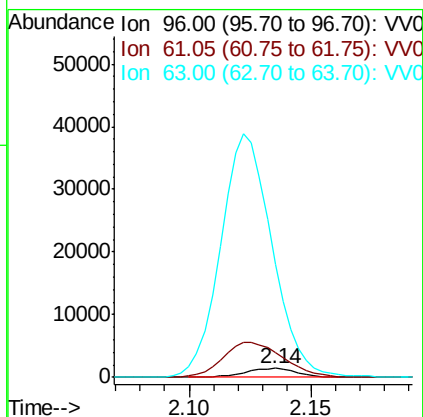
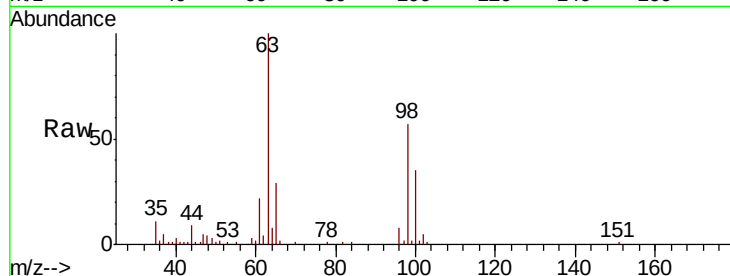




#12
 1,1-Dichloroethene
 Concen: 0.271 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: VV015971.D
 Acq: 08 May 2020 17:30

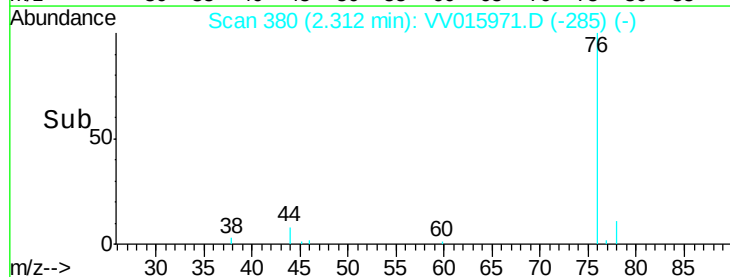
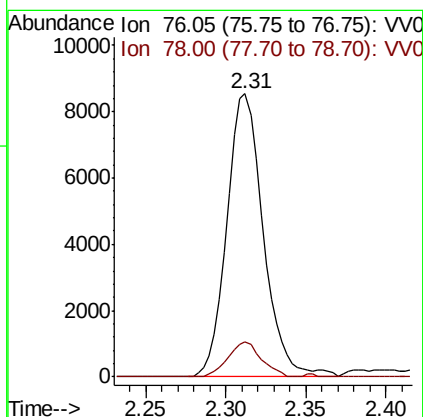
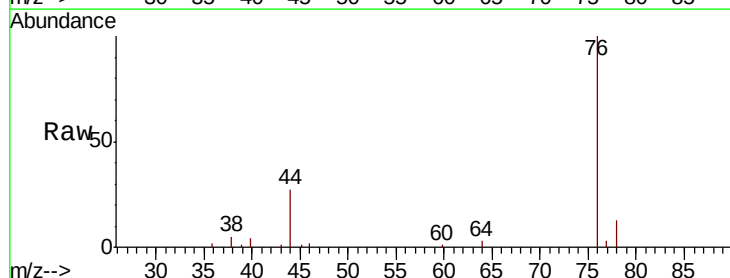
Instrument :
 MSVOA_V
 ClientSampled :

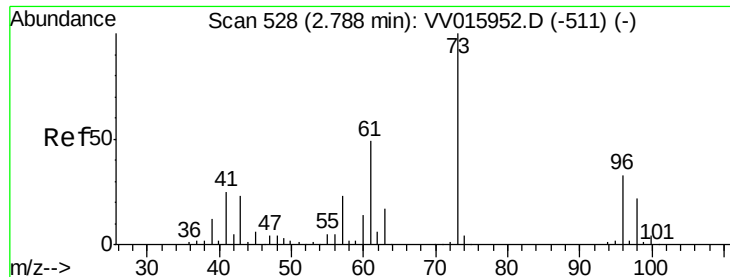
Tot Ion: 96 Resp: 2105
 Ion Ratio Lower Upper
 96 100
 61 288.3 139.9 259.7#
 63 1290.9 106.4 197.6#



#14
 Carbon disulfide
 Concen: 0.515 ug/L
 RT: 2.31 min Scan# 380
 Delta R.T. 0.01 min
 Lab File: VV015971.D
 Acq: 08 May 2020 17:30

Tgt Ion: 76 Resp: 13232
 Ion Ratio Lower Upper
 76 100
 78 12.5 7.0 10.6#

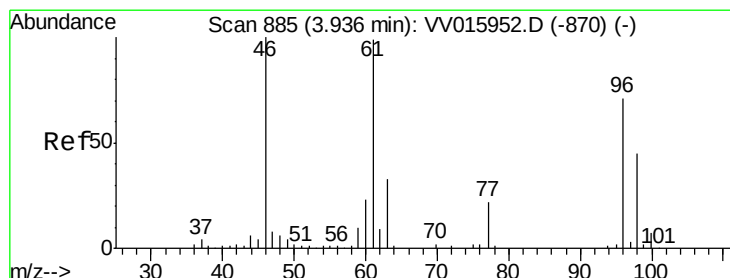
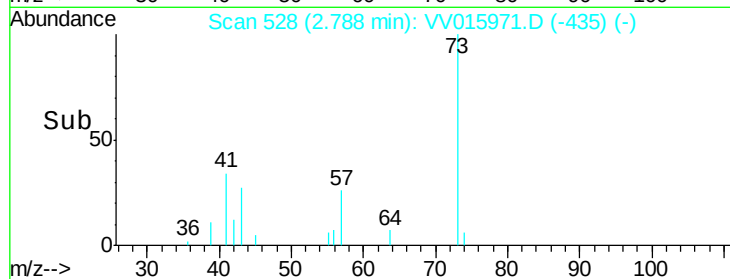
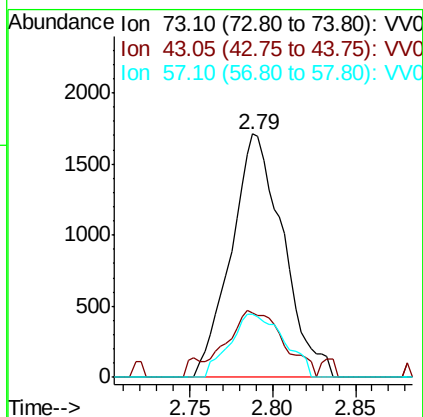
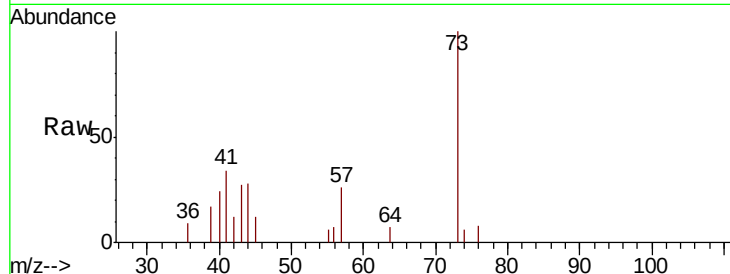




#17
Methyl tert-butyl Ether
Concen: 0.184 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV015971.D
Acq: 08 May 2020 17:30

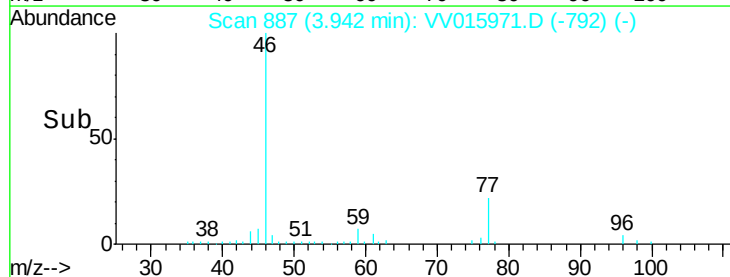
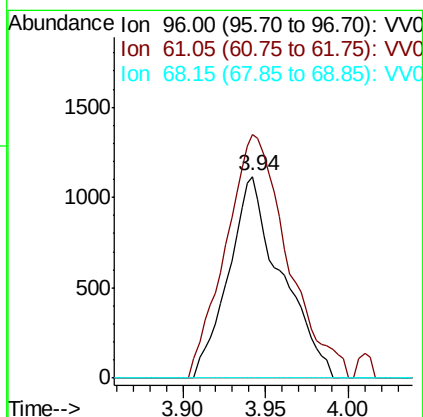
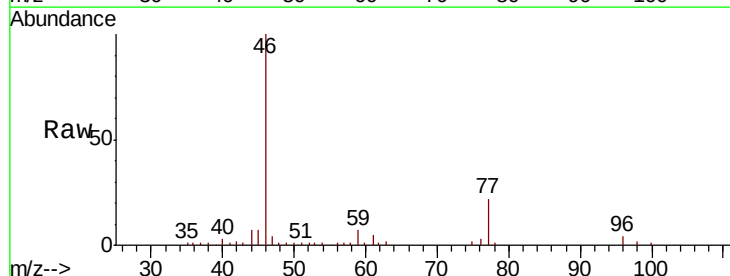
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MSVOA_V
ClientSampled :

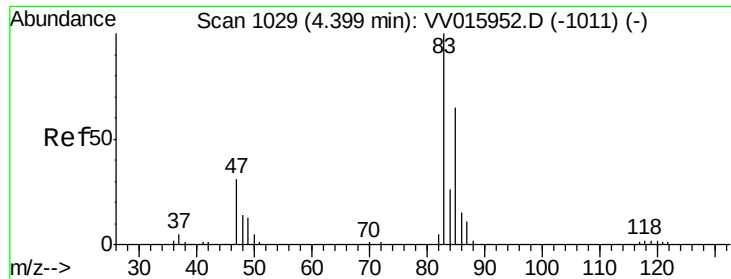
Tot Ion: 73 Resp: 3724
Ion Ratio Lower Upper
73 100
43 29.3 18.8 28.2#
57 27.2 17.8 26.6#



#22
cis-1,2-Dichloroethene
Concen: 0.274 ug/L
RT: 3.94 min Scan# 887
Delta R.T. 0.01 min
Lab File: VV015971.D
Acq: 08 May 2020 17:30

Tgt Ion: 96 Resp: 2470
Ion Ratio Lower Upper
96 100
61 120.8 97.2 180.6
68 0.0 0.0 0.0

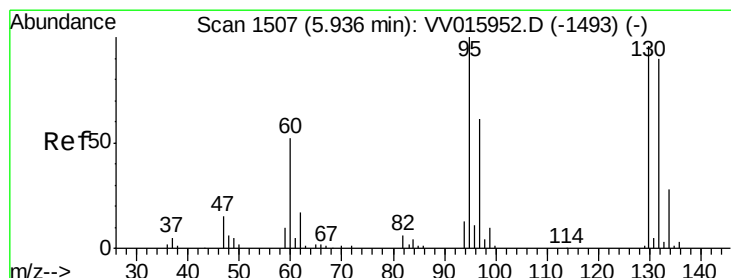
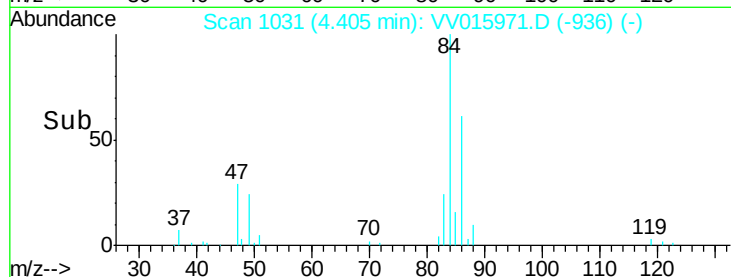
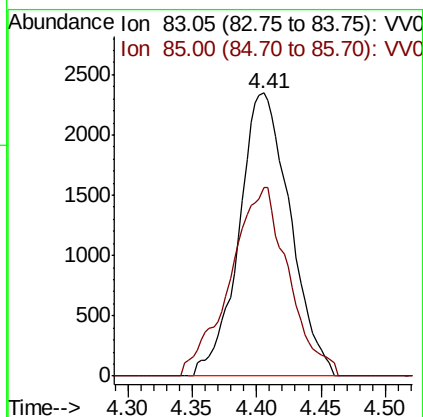
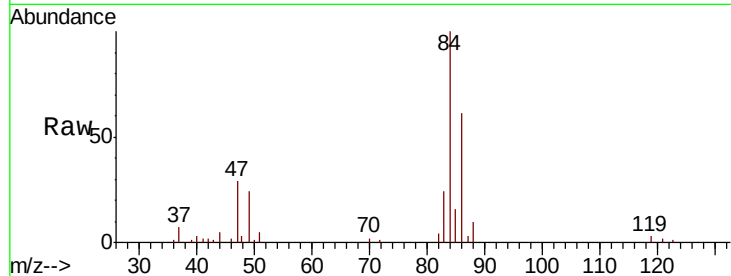




#25
Chloroform
Concen: 0.356 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV015971.D
Acq: 08 May 2020 17:30

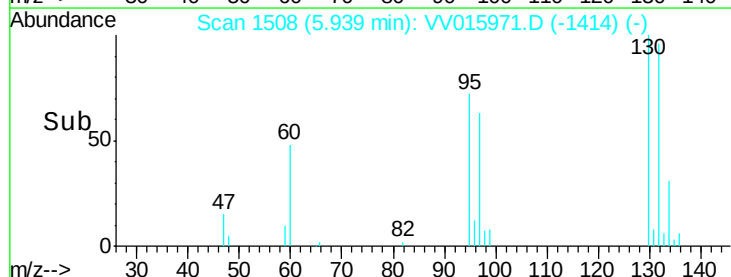
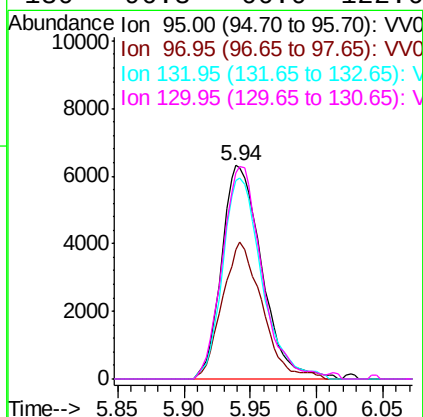
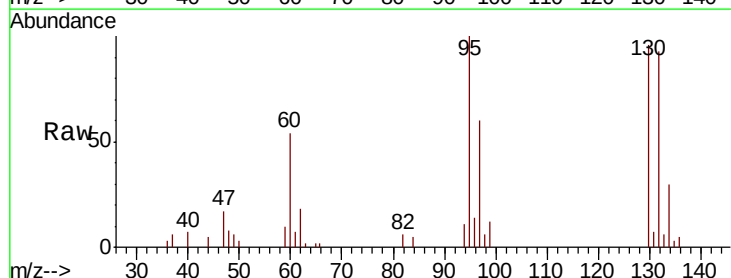
Instrument :
MSVOA_V
ClientSampled :

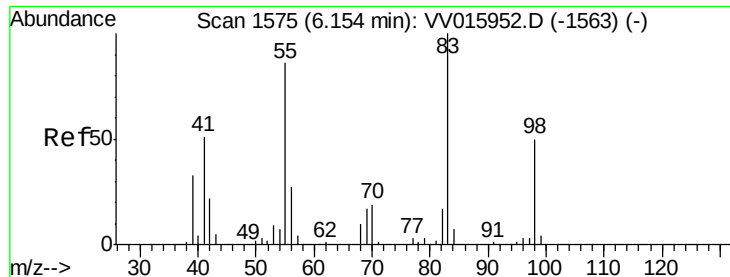
Tot Ion: 83 Resp: 6488
Ion Ratio Lower Upper
83 100
85 66.7 45.7 84.9



#34
Trichloroethene
Concen: 1.330 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV015971.D
Acq: 08 May 2020 17:30

Tgt Ion: 95 Resp: 13284
Ion Ratio Lower Upper
95 100
97 60.3 43.3 80.5
132 92.7 60.3 112.1
130 96.3 66.0 122.6

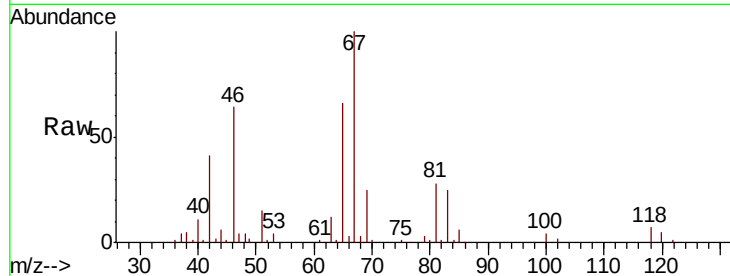




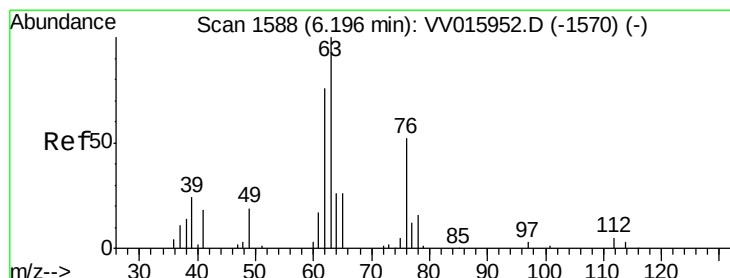
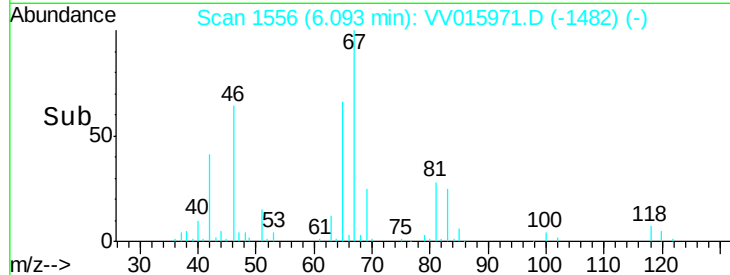
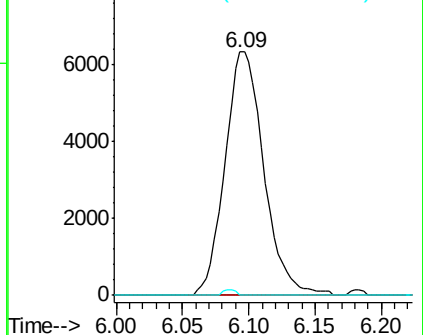
#35
Methvlcvclohexane
Concen: 0.854 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.06 min
Lab File: VV015971.D
Acq: 08 May 2020 17:30

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 12904
Ion Ratio Lower Upper
83 100
55 0.0 66.2 99.2#
98 0.8 37.9 56.9#

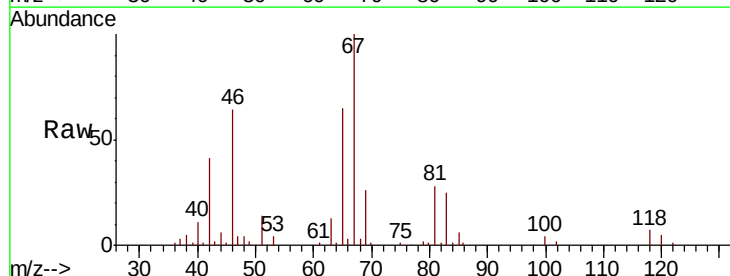


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

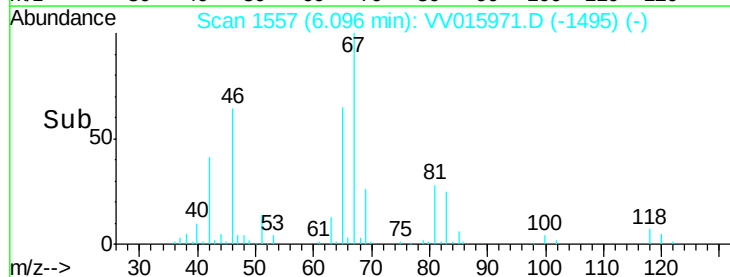
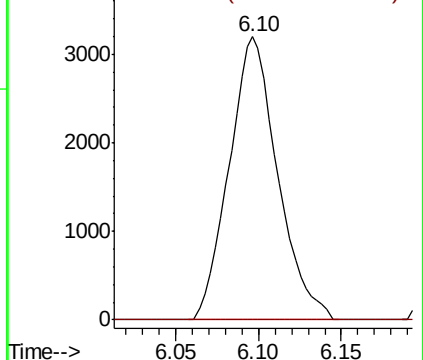


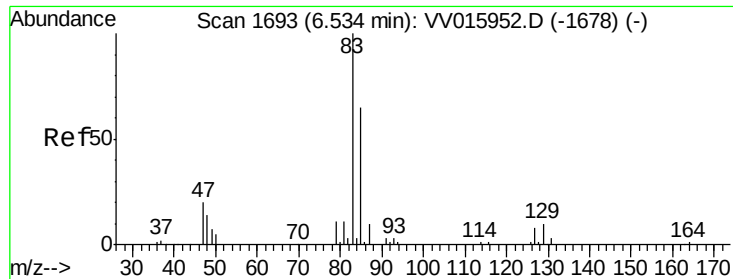
#37
1,2-Dichloropropane
Concen: 0.730 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV015971.D
Acq: 08 May 2020 17:30

Tgt Ion: 63 Resp: 6496
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





#38

Bromodichloromethane

Concen: 0.047 ug/L

RT: 6.54 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

Instrument :

MSVOA_V

ClientSampleId :

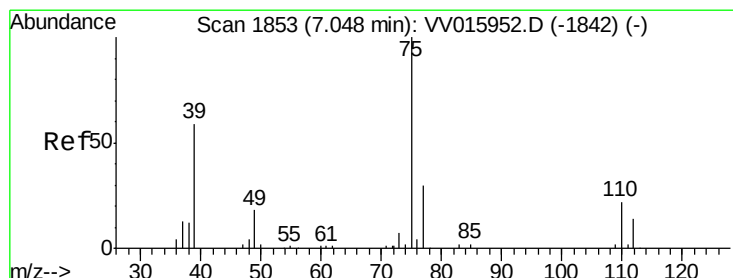
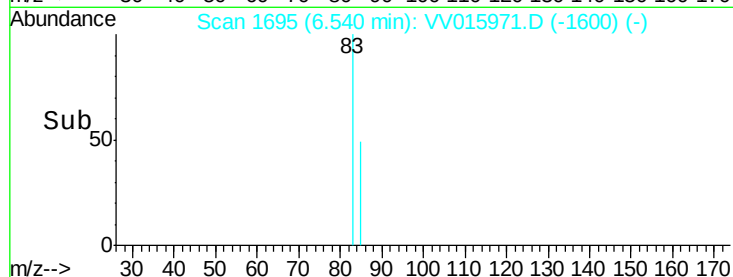
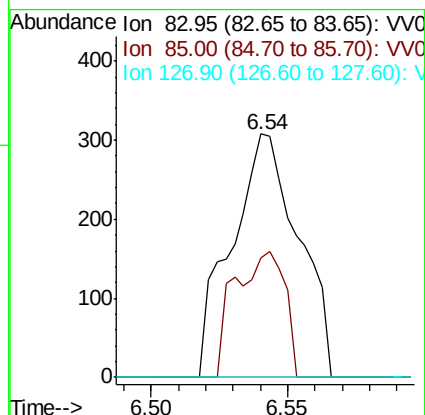
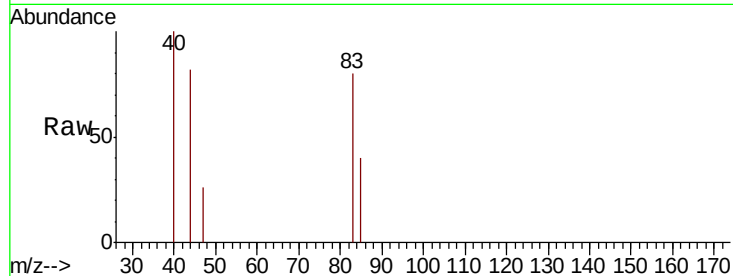
Tot Ion: 83 Resp: 526

Ion Ratio Lower Upper

83 100

85 49.4 45.5 84.5

127 0.0 6.2 9.4#



#39

cis-1,3-Dichloropropene

Concen: 0.119 ug/L

RT: 7.01 min Scan# 1841

Delta R.T. -0.04 min

Lab File: VV015971.D

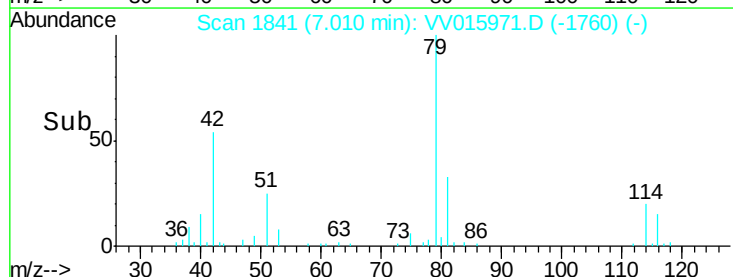
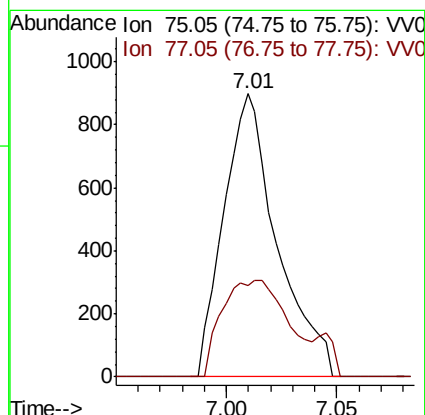
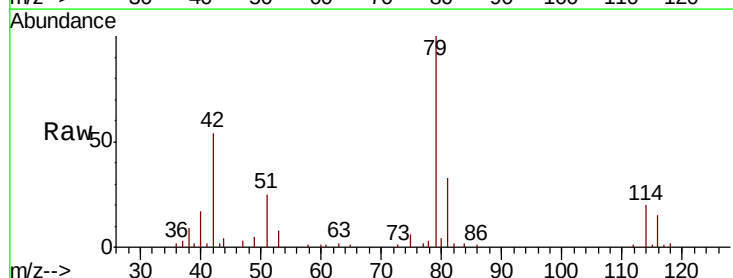
Acq: 08 May 2020 17:30

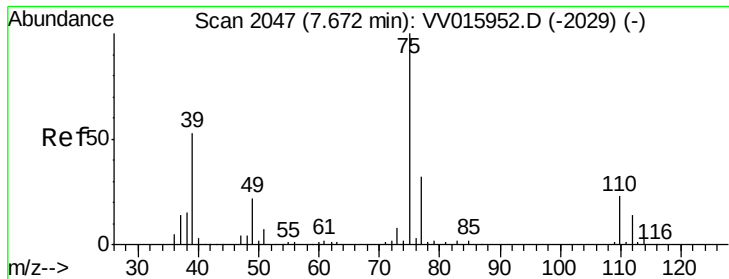
Tgt Ion: 75 Resp: 1502

Ion Ratio Lower Upper

75 100

77 32.2 21.3 39.5





#46

trans-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 7.65 min Scan# 2040

Delta R.T. -0.02 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

Instrument :

MSVOA_V

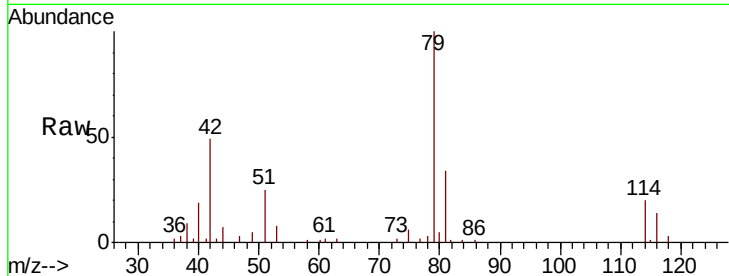
ClientSampleId :

Tot Ion: 75 Resp: 933

Ion Ratio Lower Upper

75 100

77 33.7 21.3 39.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.65

600

500

400

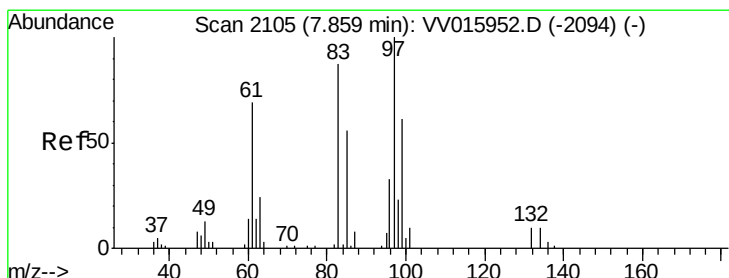
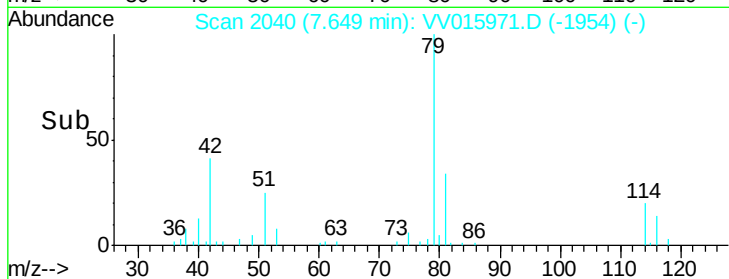
300

200

100

0

Time--> 7.60 7.65 7.70



#47

1,1,2-Trichloroethane

Concen: 0.120 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.14 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

Tgt Ion: 97 Resp: 710

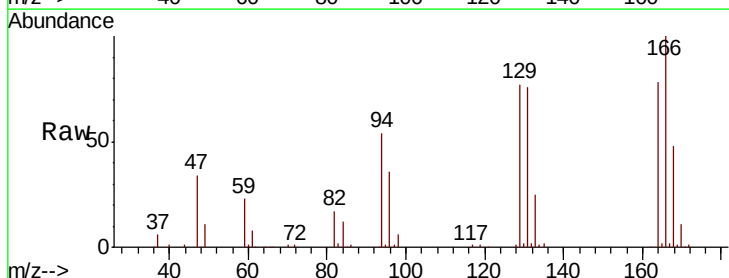
Ion Ratio Lower Upper

97 100

99 0.0 42.1 78.1#

83 232.1 59.2 110.0#

85 32.4 38.6 71.8#



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

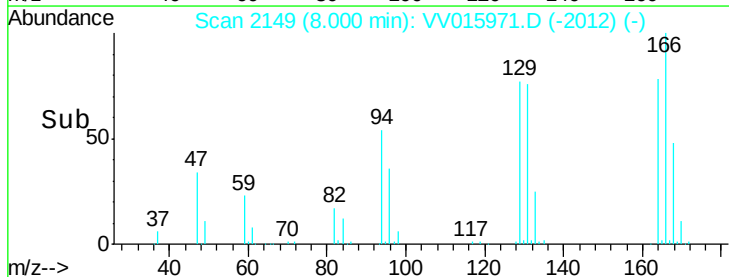
1500

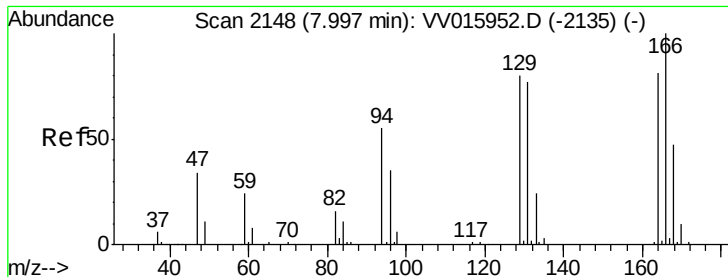
1000

500

0

Time--> 7.95 8.00





#49

Tetrachloroethene

Concen: 9.205 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 64172

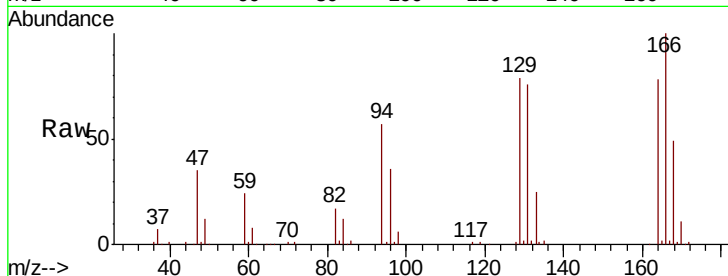
Ion Ratio Lower Upper

164 100

129 101.0 69.7 129.4

131 97.0 66.8 124.2

166 127.4 89.1 165.5

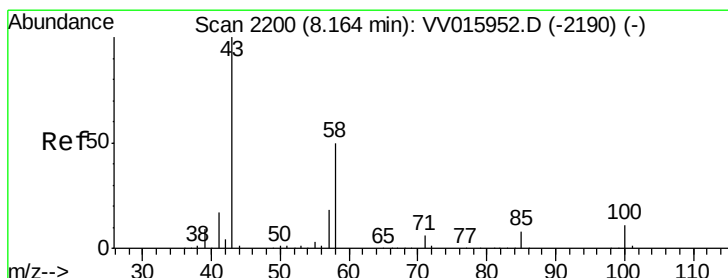
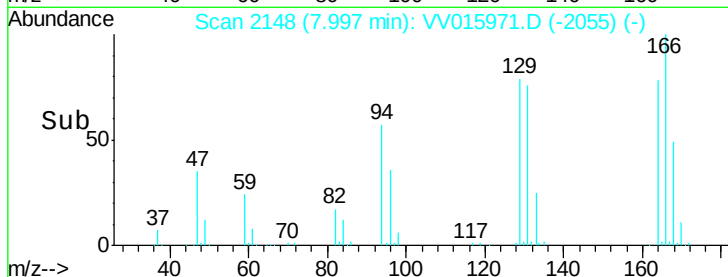
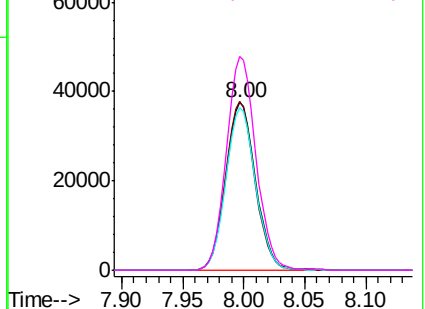


Abundance Ion 163.90 (163.60 to 164.60): V

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



#50

2-Hexanone

Concen: 1.233 ug/L

RT: 8.18 min Scan# 2204

Delta R.T. 0.01 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

Tgt Ion: 43 Resp: 4834

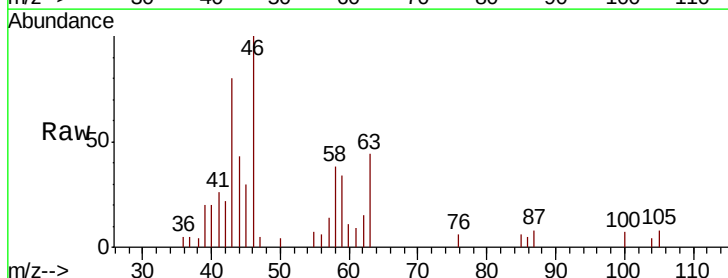
Ion Ratio Lower Upper

43 100

58 44.6 40.8 61.2

57 0.0 14.7 22.1#

100 7.7 9.0 13.6#

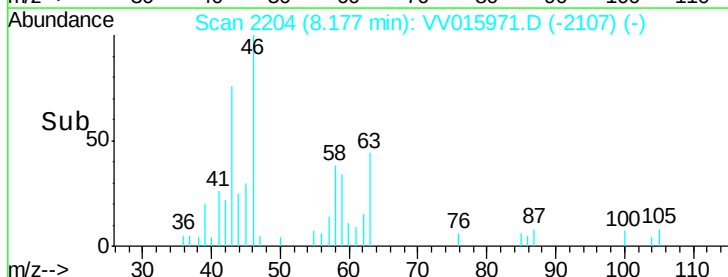
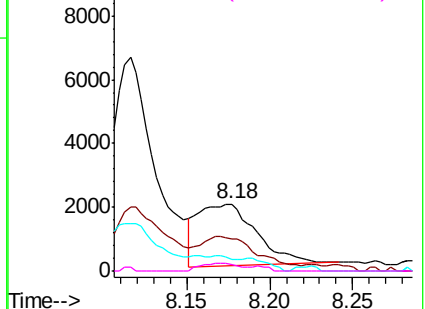


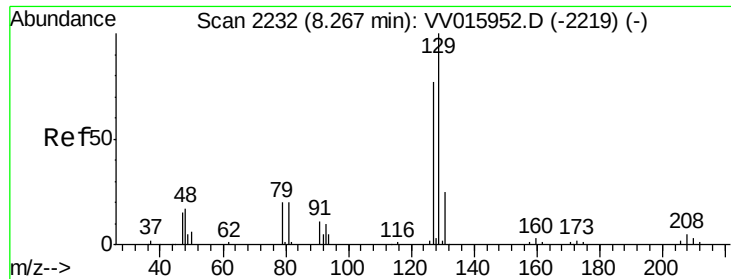
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#51

Dibromochloromethane

Concen: 9.362 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV015971.D

Acq: 08 May 2020 17:30

Instrument :

MSVOA_V

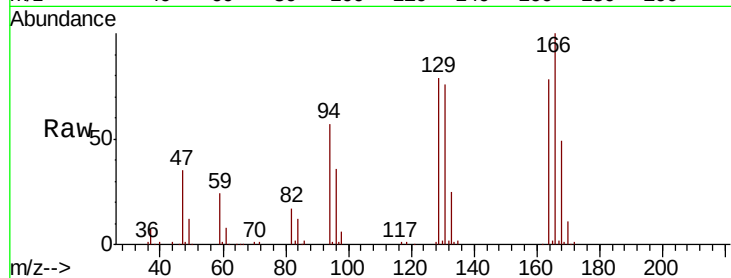
ClientSampleId :

Tot Ion:129 Resp: 62472

Ion Ratio Lower Upper

129 100

127 0.0 56.0 104.0#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

