

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051420\
 Data File : VU038172.D
 Acq On : 14 May 2020 16:18
 Operator : JC/MD
 Sample : L2631-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 15 01:08:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 15 01:05:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	325231	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	317554	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	149476	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	105244	3.54	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.80%
7) Chloroethane-d5	1.93	69	106456	4.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.80%
11) 1,1-Dichloroethene-d2	2.59	63	147535	2.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.40%#
20) 2-Butanone-d5	4.67	46	462294	62.98	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	125.96%
24) Chloroform-d	5.10	84	211335	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
26) 1,2-Dichloroethane-d4	5.74	65	132086	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
32) Benzene-d6	5.76	84	434566	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
36) 1,2-Dichloropropane-d6	6.72	67	147788	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.92	98	380430	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.00%
43) trans-1,3-Dichloropropene-	8.20	79	54574	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
46) 2-Hexanone-d5	8.65	63	370810	63.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	127.66%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	128439	5.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	143701	4.94	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.60	96	5381	0.238	ug/L #	1
13) Acetone	2.67	43	12347	2.681	ug/L	91
17) Methyl tert-butyl Ether	3.40	73	30433	0.485	ug/L #	92
19) 1,1-Dichloroethane	3.91	63	27545	0.572	ug/L	97
22) cis-1,2-Dichloroethene	4.71	96	24462	0.921	ug/L	92
25) Chloroform	5.13	83	18990	0.423	ug/L	93
29) 1,1,1-Trichloroethane	5.35	97	10857	0.298	ug/L	96
34) Trichloroethene	6.57	95	1306852	51.383	ug/L	99
35) Methylcyclohexane	6.72	83	32793	0.796	ug/L #	15
37) 1,2-Dichloropropane	6.72	63	15736	0.570	ug/L #	88
39) cis-1,3-Dichloropropene	7.59	75	3308	0.084	ug/L #	55
47) Tetrachloroethene	8.57	164	81069	4.557	ug/L	97
48) 2-Hexanone	8.71	43	27708	1.976	ug/L	96
49) Dibromochloromethane	8.57	129	78197	3.928	ug/L #	10
59) 1,2,3-Trichloropropane	10.83	75	3861	0.208	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.79	75	3024	0.791	ug/L #	17

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Quant Time: May 15 01:08:57 2020
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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 15 01:05:40 2020
Response via : Initial Calibration

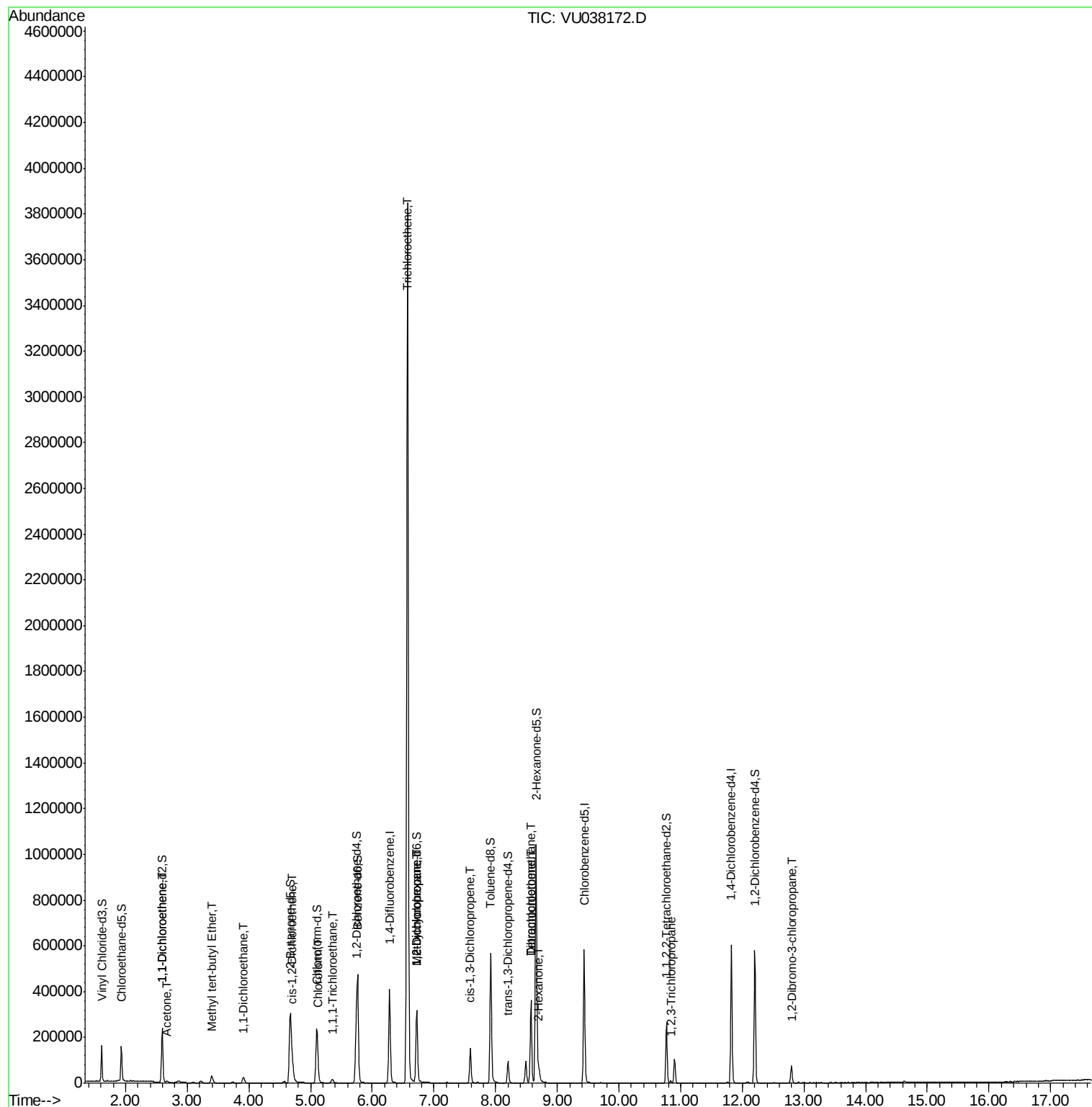
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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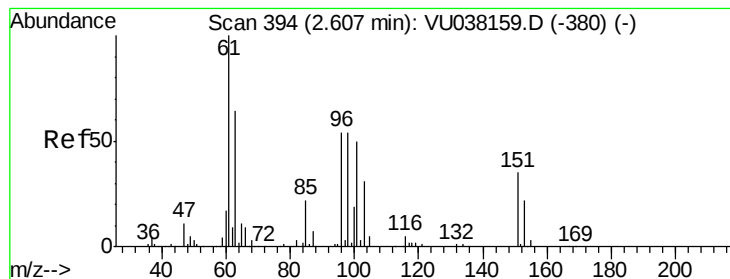
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 15 01:05:40 2020
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.238 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038172.D

Acq: 14 May 2020 16:18

Instrument :

MSVOA_U

ClientSampled :

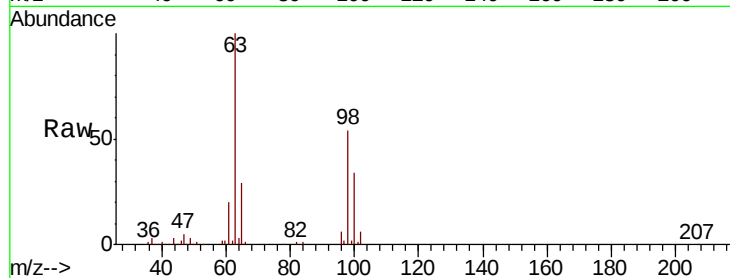
Tot Ion: 96 Resp: 5381

Ion Ratio Lower Upper

96 100

61 352.5 126.2 234.4#

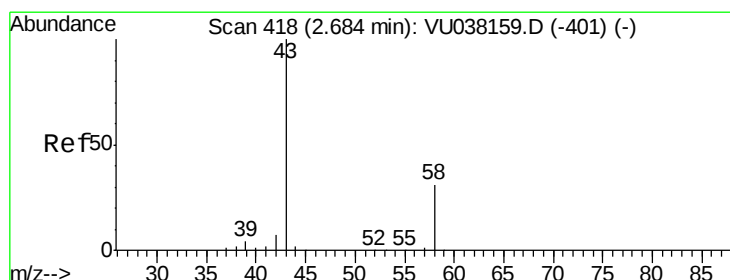
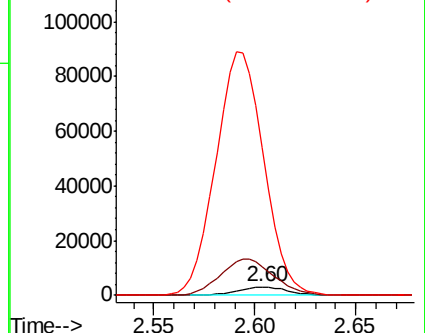
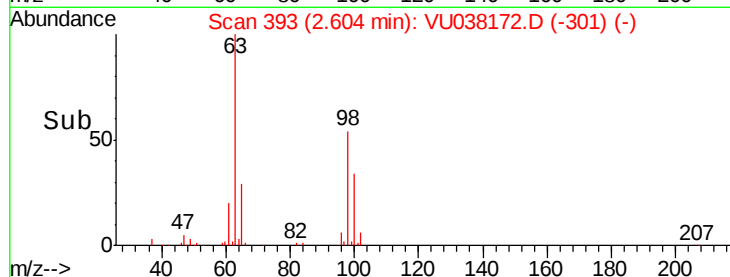
63 1803.3 96.9 179.9#



Abundance Ion 96.00 (95.70 to 96.70): VU038172.D (-301) (-)

Ion 61.05 (60.75 to 61.75): VU038172.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VU038172.D (-301) (-)



#13

Acetone

Concen: 2.681 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.02 min

Lab File: VU038172.D

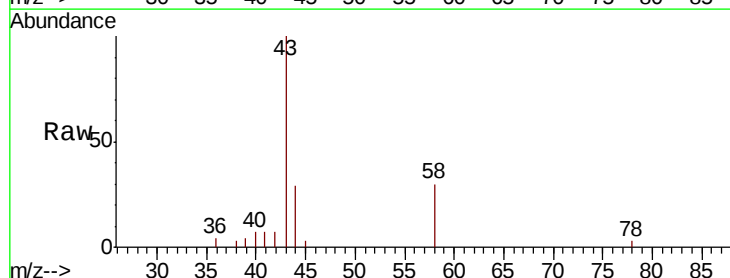
Acq: 14 May 2020 16:18

Tgt Ion: 43 Resp: 12347

Ion Ratio Lower Upper

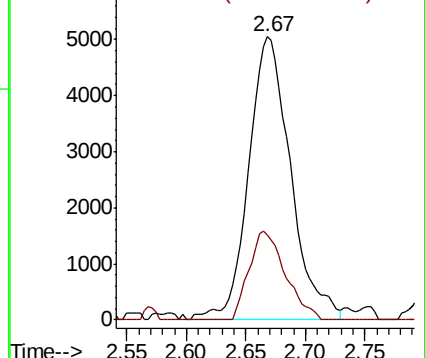
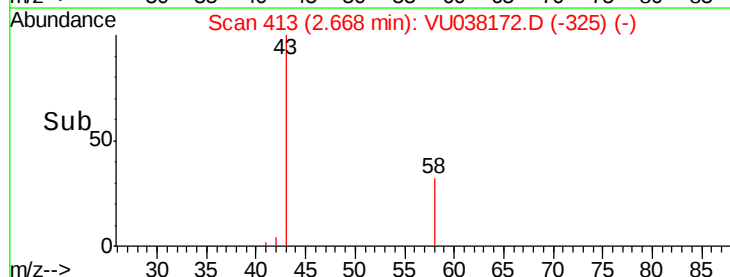
43 100

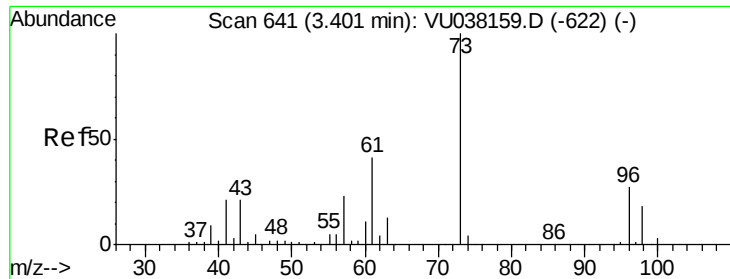
58 27.1 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038172.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU038172.D (-325) (-)

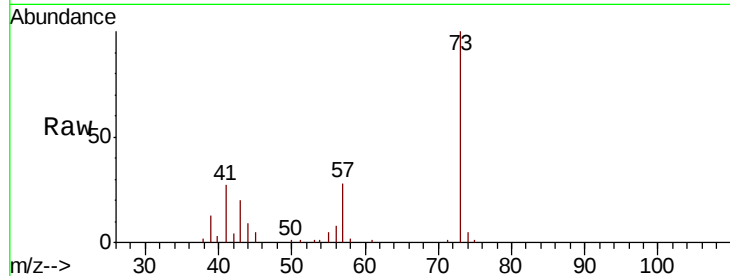




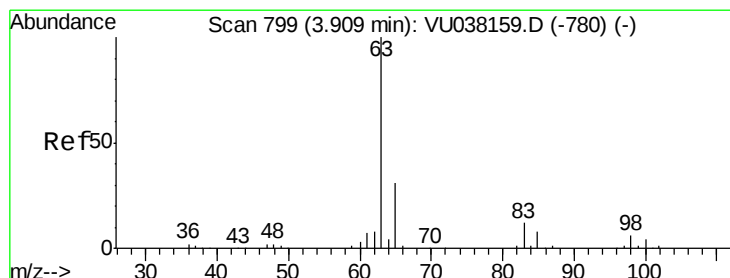
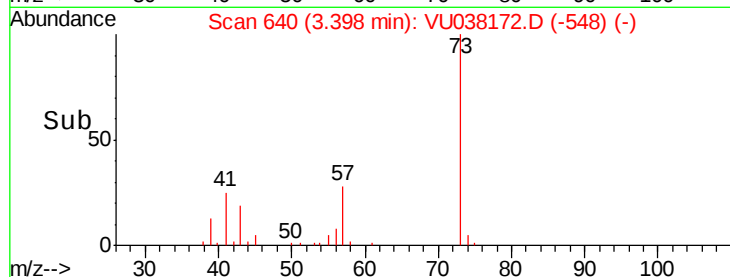
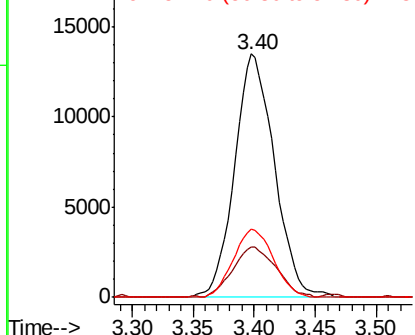
#17
Methvl tert-butvl Ether
Concen: 0.485 ug/L
RT: 3.40 min Scan# 640
Delta R.T. -0.00 min
Lab File: VU038172.D
Acq: 14 May 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 30433
Ion Ratio Lower Upper
73 100
43 22.6 16.9 25.3
57 28.2 18.2 27.2#

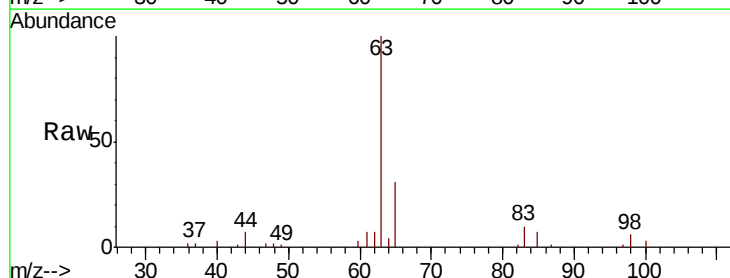


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

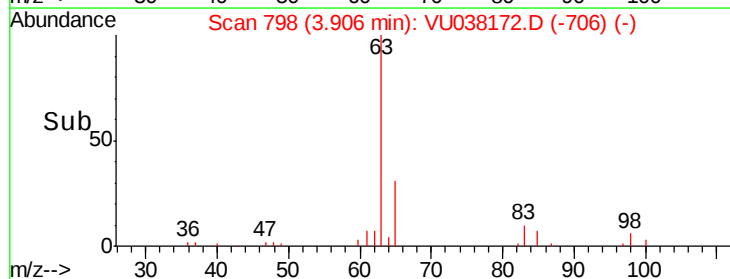
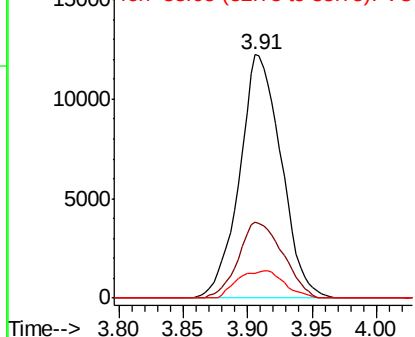


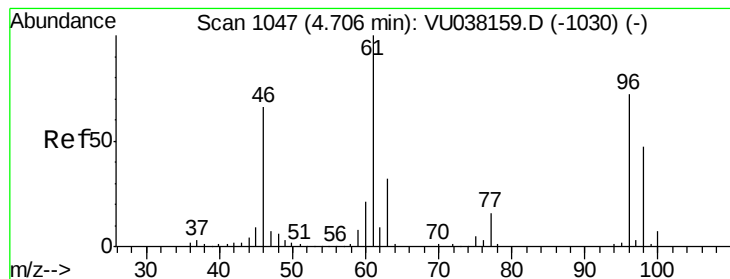
#19
1,1-Dichloroethane
Concen: 0.572 ug/L
RT: 3.91 min Scan# 798
Delta R.T. -0.00 min
Lab File: VU038172.D
Acq: 14 May 2020 16:18

Tgt Ion: 63 Resp: 27545
Ion Ratio Lower Upper
63 100
65 31.0 22.5 41.7
83 10.2 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 0.921 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038172.D

Acq: 14 May 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :

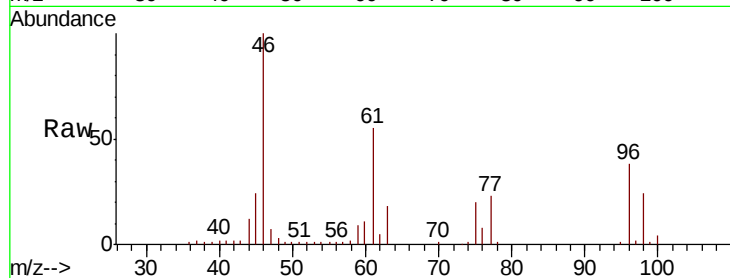
Tot Ion: 96 Resp: 24462

Ion Ratio Lower Upper

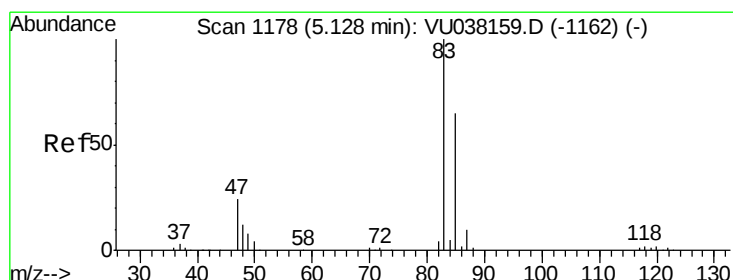
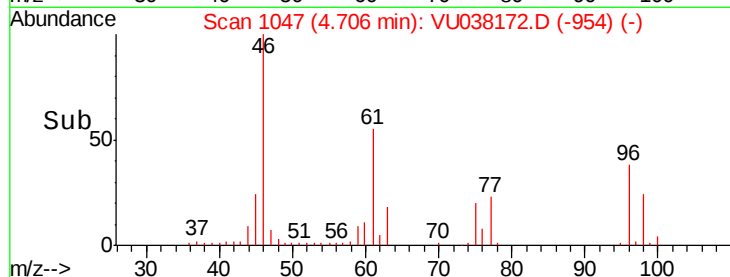
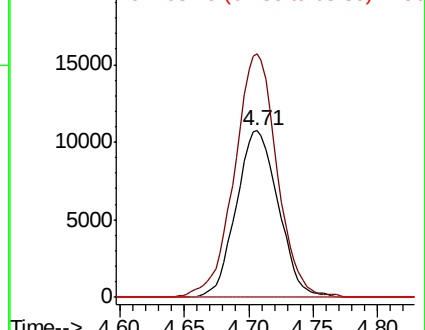
96 100

61 146.0 95.3 176.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 0.423 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU038172.D

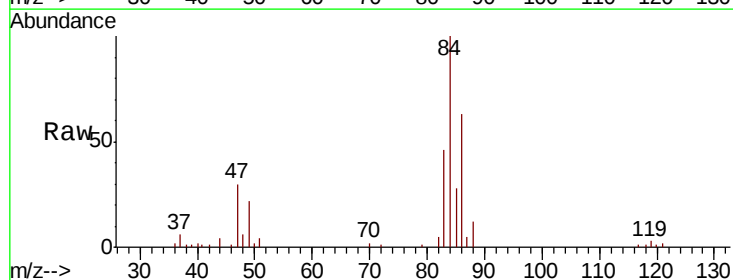
Acq: 14 May 2020 16:18

Tgt Ion: 83 Resp: 18990

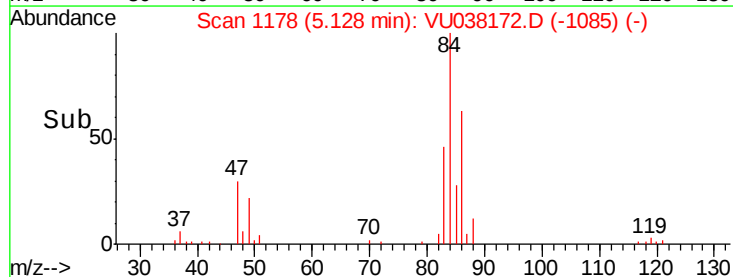
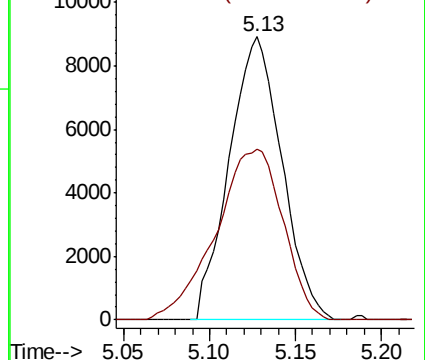
Ion Ratio Lower Upper

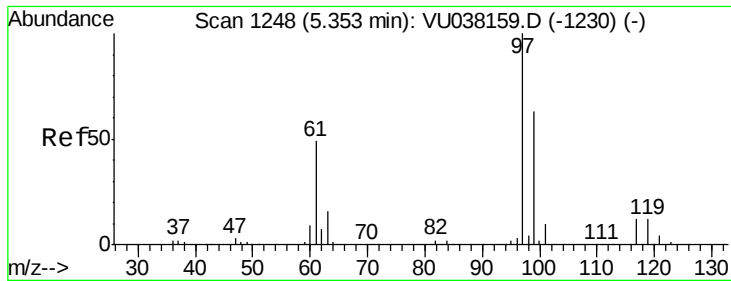
83 100

85 60.1 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

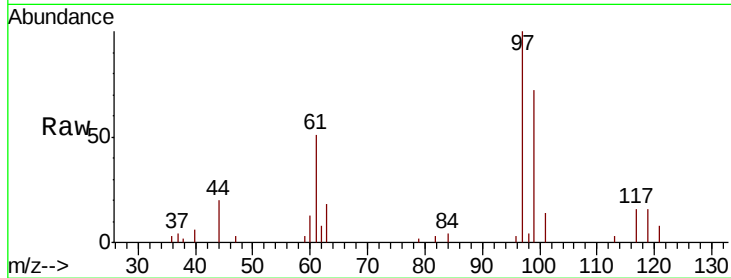




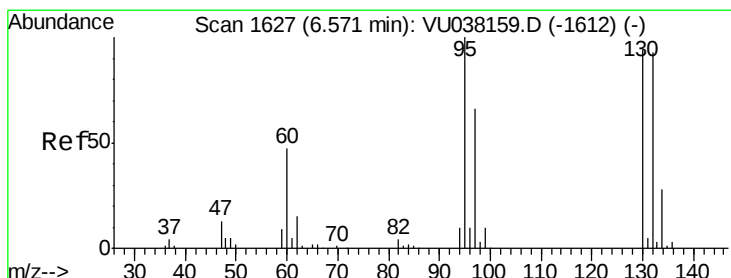
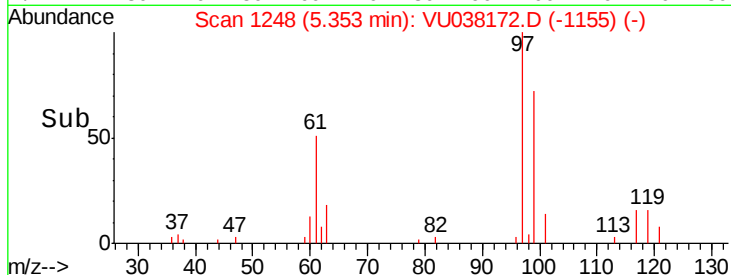
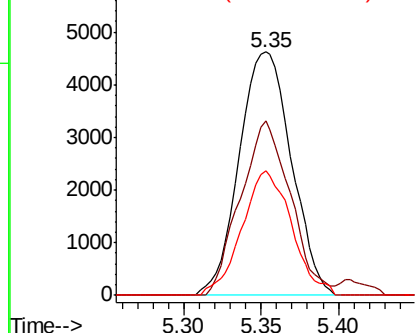
#29
 1,1,1-Trichloroethane
 Concen: 0.298 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038172.D
 Acq: 14 May 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 10857
 Ion Ratio Lower Upper
 97 100
 99 68.3 51.0 76.4
 61 48.6 38.2 57.4

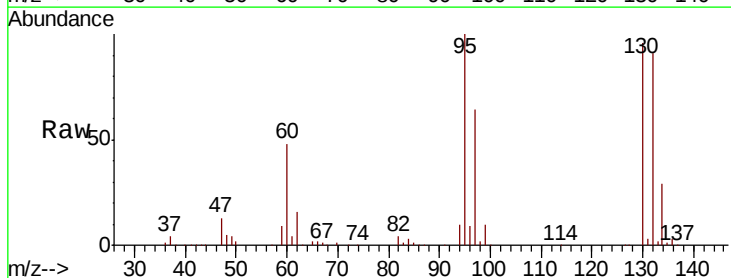


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

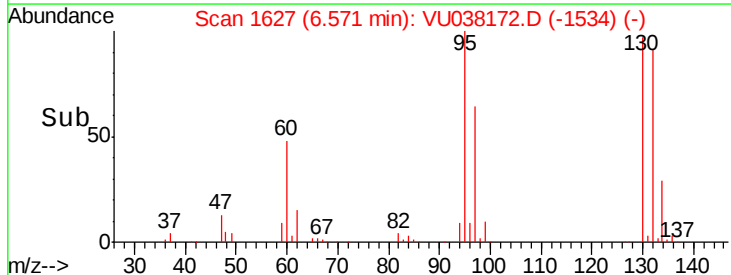
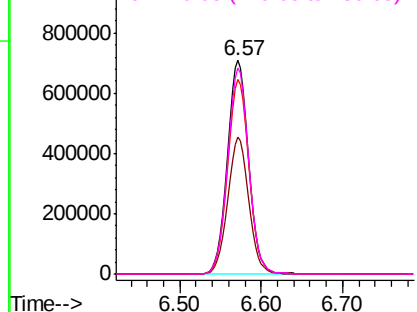


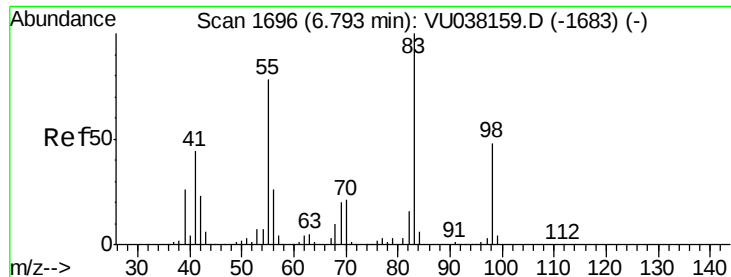
#34
 Trichloroethene
 Concen: 51.383 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU038172.D
 Acq: 14 May 2020 16:18

Tgt Ion: 95 Resp: 1306852
 Ion Ratio Lower Upper
 95 100
 97 64.0 44.9 83.3
 132 91.0 63.3 117.5
 130 96.3 65.7 122.1



Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V





#35

Methvlcvclohexane

Concen: 0.796 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.07 min

Lab File: VU038172.D

Acq: 14 May 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

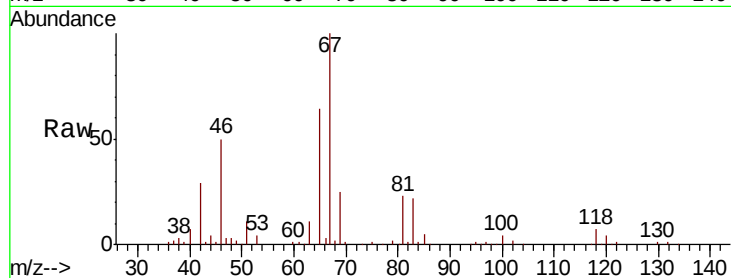
Tot Ion: 83 Resp: 32793

Ion Ratio Lower Upper

83 100

55 0.1 66.7 100.1#

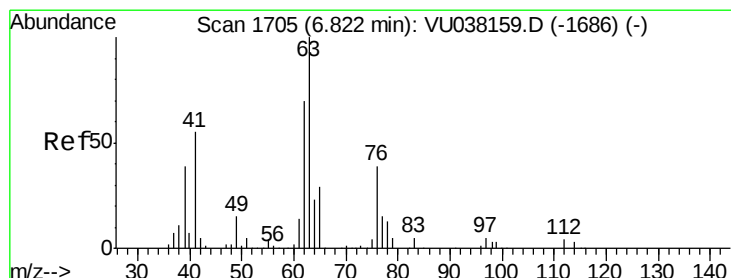
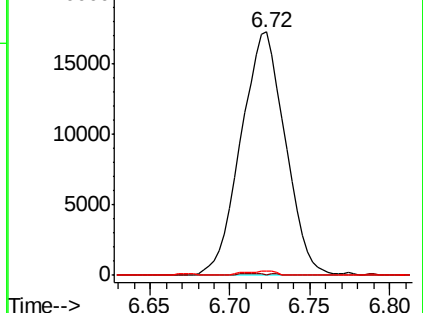
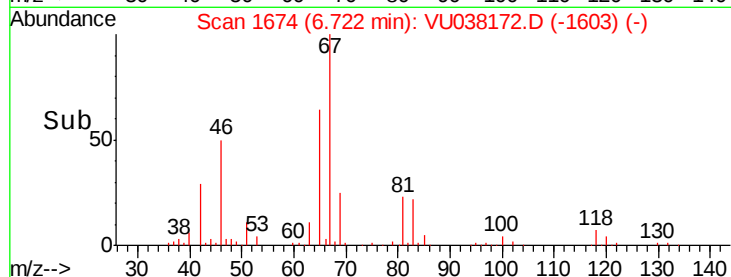
98 0.0 39.4 59.2#



Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



#37

1,2-Dichloropropane

Concen: 0.570 ug/L

RT: 6.72 min Scan# 1673

Delta R.T. -0.10 min

Lab File: VU038172.D

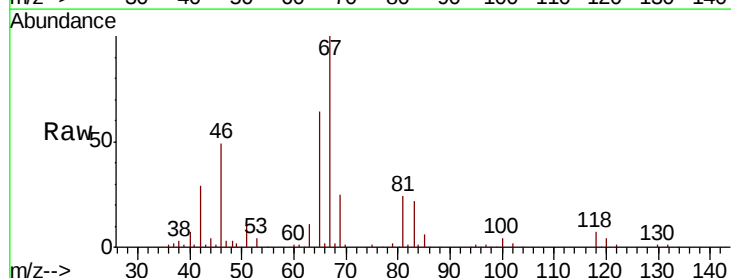
Acq: 14 May 2020 16:18

Tgt Ion: 63 Resp: 15736

Ion Ratio Lower Upper

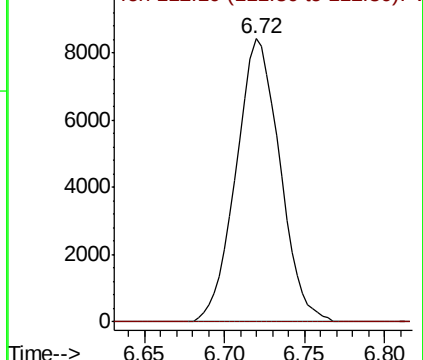
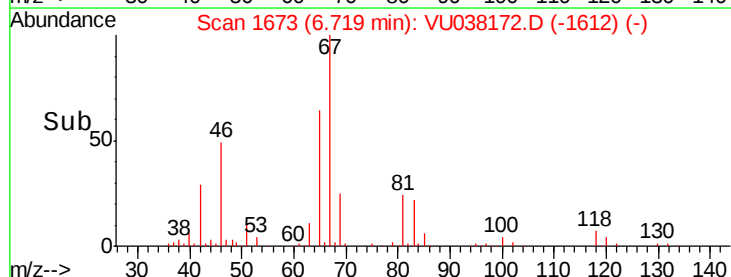
63 100

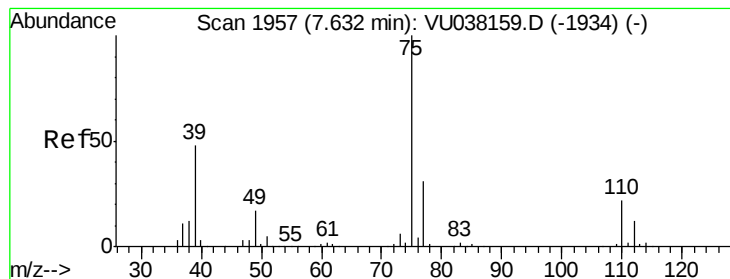
112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



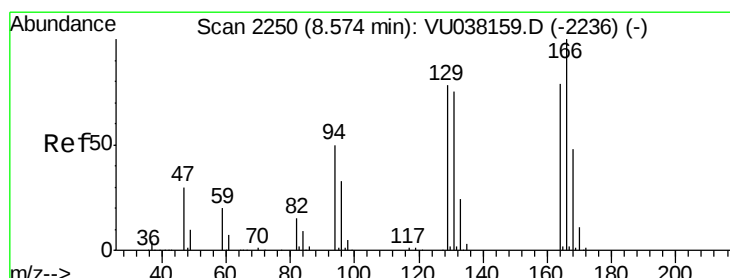
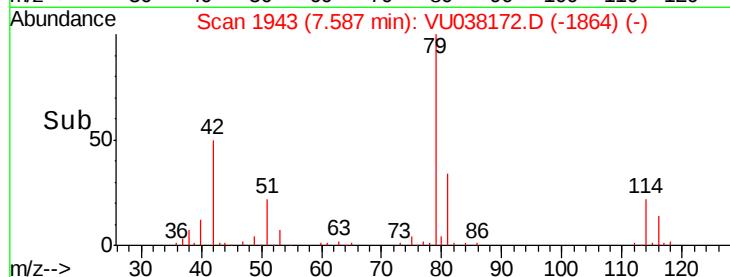
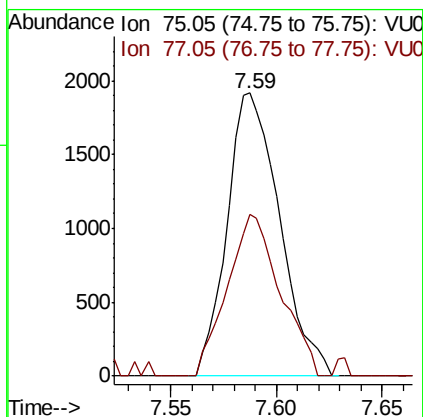
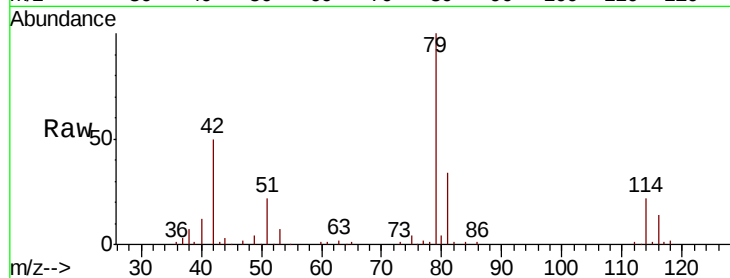


#39

cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.59 min Scan# 1943
 Delta R.T. -0.04 min
 Lab File: VU038172.D
 Acq: 14 May 2020 16:18

Instrument :
 MSVOA_U
 ClientSampled :

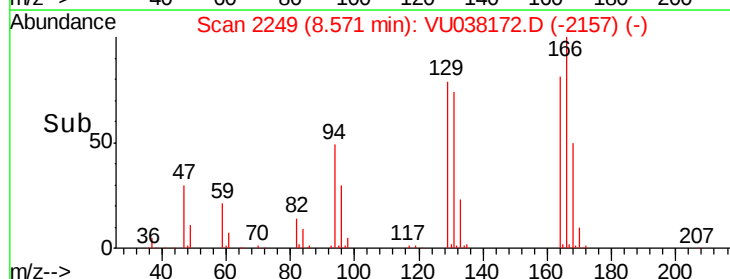
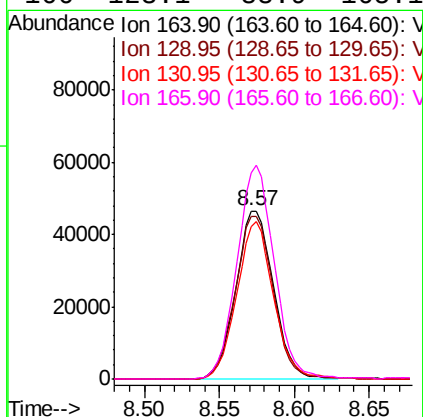
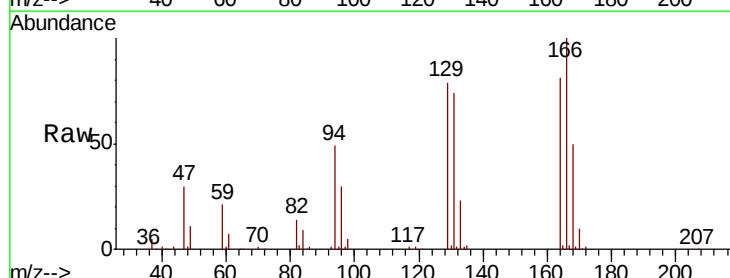
Tot Ion: 75 Resp: 3308
 Ion Ratio Lower Upper
 75 100
 77 57.0 22.4 41.6#

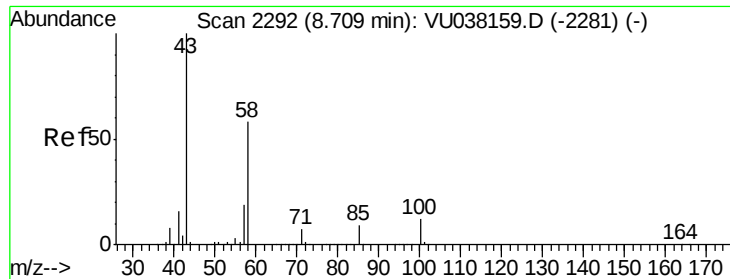


#47

Tetrachloroethene
 Concen: 4.557 ug/L
 RT: 8.57 min Scan# 2249
 Delta R.T. -0.00 min
 Lab File: VU038172.D
 Acq: 14 May 2020 16:18

Tgt Ion: 164 Resp: 81069
 Ion Ratio Lower Upper
 164 100
 129 97.2 68.8 127.8
 131 90.6 66.8 124.2
 166 123.1 88.9 165.1

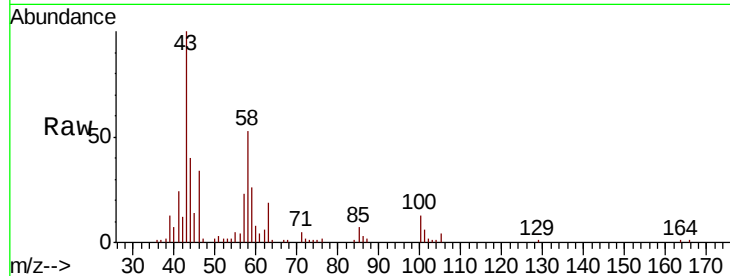




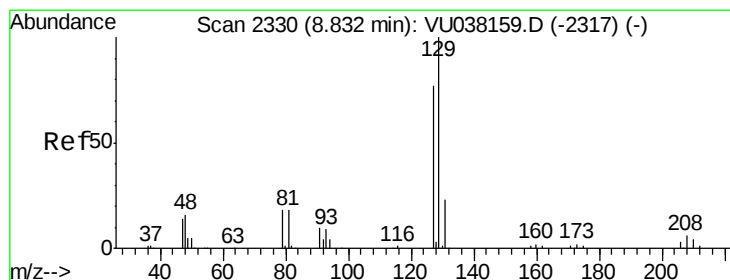
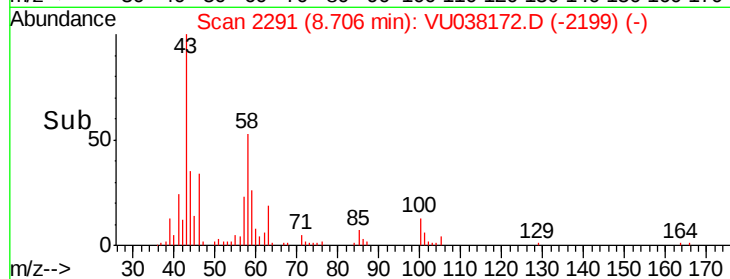
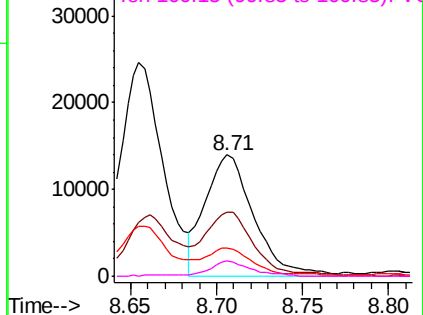
#48
2-Hexanone
Concen: 1.976 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038172.D
Acq: 14 May 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 27708
Ion Ratio Lower Upper
43 100
58 52.5 45.2 67.8
57 19.4 15.5 23.3
100 10.6 9.5 14.3

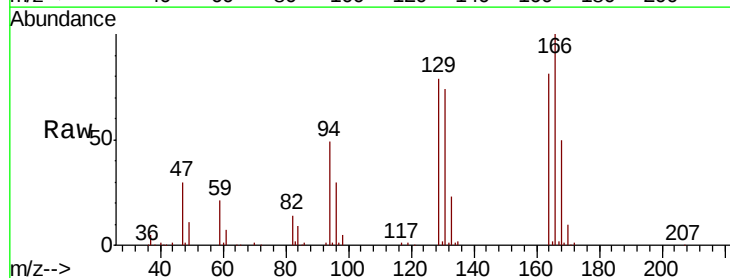


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

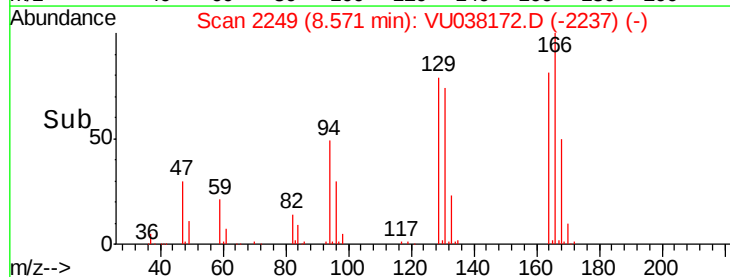
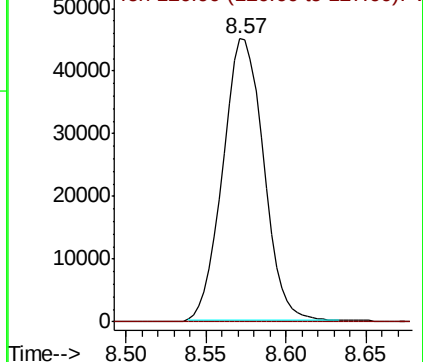


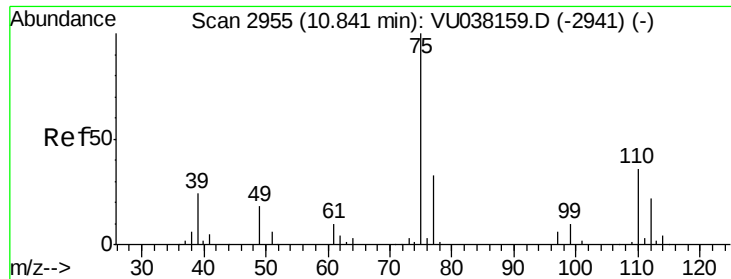
#49
Dibromochloromethane
Concen: 3.928 ug/L
RT: 8.57 min Scan# 2249
Delta R.T. -0.26 min
Lab File: VU038172.D
Acq: 14 May 2020 16:18

Tgt Ion: 129 Resp: 78197
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 0.208 ug/L

RT: 10.83 min Scan# 2953

Delta R.T. -0.01 min

Lab File: VU038172.D

Acq: 14 May 2020 16:18

Instrument :

MSVOA_U

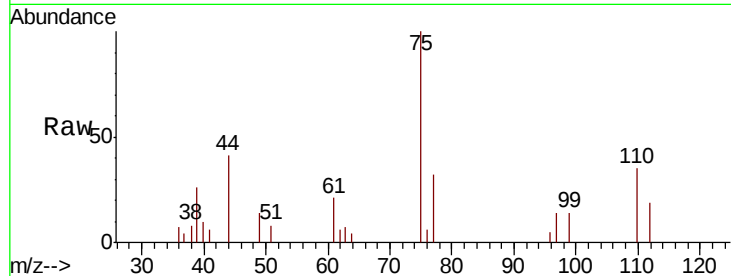
ClientSampleId :

Tot Ion: 75 Resp: 3861

Ion Ratio Lower Upper

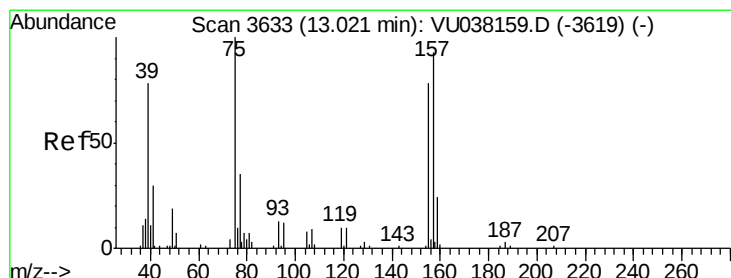
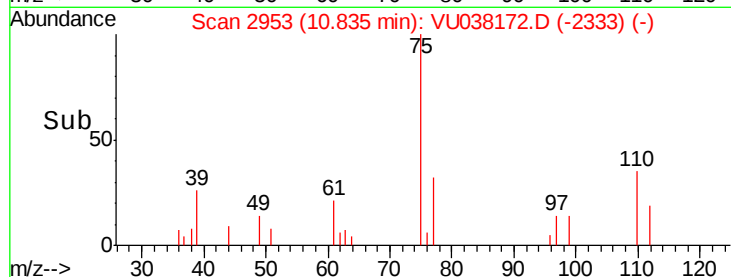
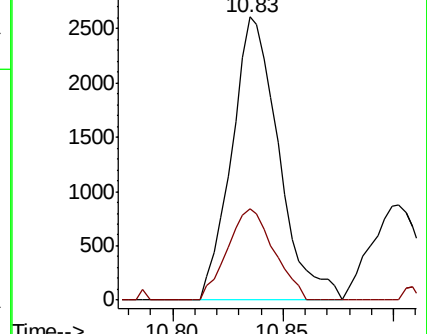
75 100

77 31.9 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU038159.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU038159.D (-2941) (-)



#66

1,2-Dibromo-3-chloropropane

Concen: 0.791 ug/L

RT: 12.79 min Scan# 3562

Delta R.T. -0.23 min

Lab File: VU038172.D

Acq: 14 May 2020 16:18

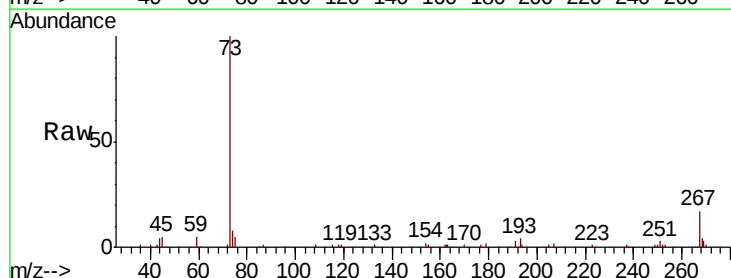
Tgt Ion: 75 Resp: 3024

Ion Ratio Lower Upper

75 100

155 16.8 58.2 87.2#

157 0.0 72.9 109.3#



Abundance Ion 75.05 (74.75 to 75.75): VU038159.D (-3619) (-)

Ion 154.95 (154.65 to 155.65): VU038159.D (-3619) (-)

Ion 156.90 (156.60 to 157.60): VU038159.D (-3619) (-)

