

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101720\
 Data File : VU040780.D
 Acq On : 17 Oct 2020 22:46
 Operator : SY/MD
 Sample : L4447-02
 Misc : 25.4mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 19 03:11:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 19 03:08:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	130674	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	126732	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	52154	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	151085	13.95	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	279.00%#
7) Chloroethane-d5	1.92	69	35220	4.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.40%
11) 1,1-Dichloroethene-d2	2.59	63	103944	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.20%
20) 2-Butanone-d5	4.70	46	201963	58.29	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.58%
24) Chloroform-d	5.09	84	85941	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	5.72	65	54107	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.74	84	151010	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
36) 1,2-Dichloropropane-d6	6.70	67	54439	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.00%
41) Toluene-d8	7.91	98	113138	3.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.00%
43) trans-1,3-Dichloropropene-	8.19	79	19273	4.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.20%
46) 2-Hexanone-d5	8.64	63	117718	47.52	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.04%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	50247	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	47571	4.92	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.36	85	1061	0.090	ug/L	98
3) Chloromethane	1.61	50	123059	11.114	ug/L #	44
5) Vinyl chloride	1.60	62	12693893	1088.652	ug/L #	74
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	2401	0.221	ug/L #	76
12) 1,1-Dichloroethene	2.60	96	84519	9.065	ug/L #	86
14) Carbon disulfide	2.82	76	65835	2.522	ug/L #	95
17) Methyl tert-butyl Ether	3.38	73	8860	0.336	ug/L #	86
18) trans-1,2-Dichloroethene	3.38	96	401916	41.180	ug/L	98
19) 1,1-Dichloroethane	3.89	63	1632	0.081	ug/L #	87
27) 1,2-Dichloroethane	5.81	62	1670	0.114	ug/L #	77
30) Cyclohexane	5.40	56	2176	0.139	ug/L #	93
33) Benzene	5.79	78	2370	0.058	ug/L	100
34) Trichloroethene	6.55	95	17127	1.623	ug/L	95
35) Methylcyclohexane	6.70	83	12845	0.858	ug/L #	15
37) 1,2-Dichloropropane	6.70	63	6544	0.577	ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1473	0.095	ug/L #	56
42) Toluene	7.97	91	7289	0.176	ug/L	88

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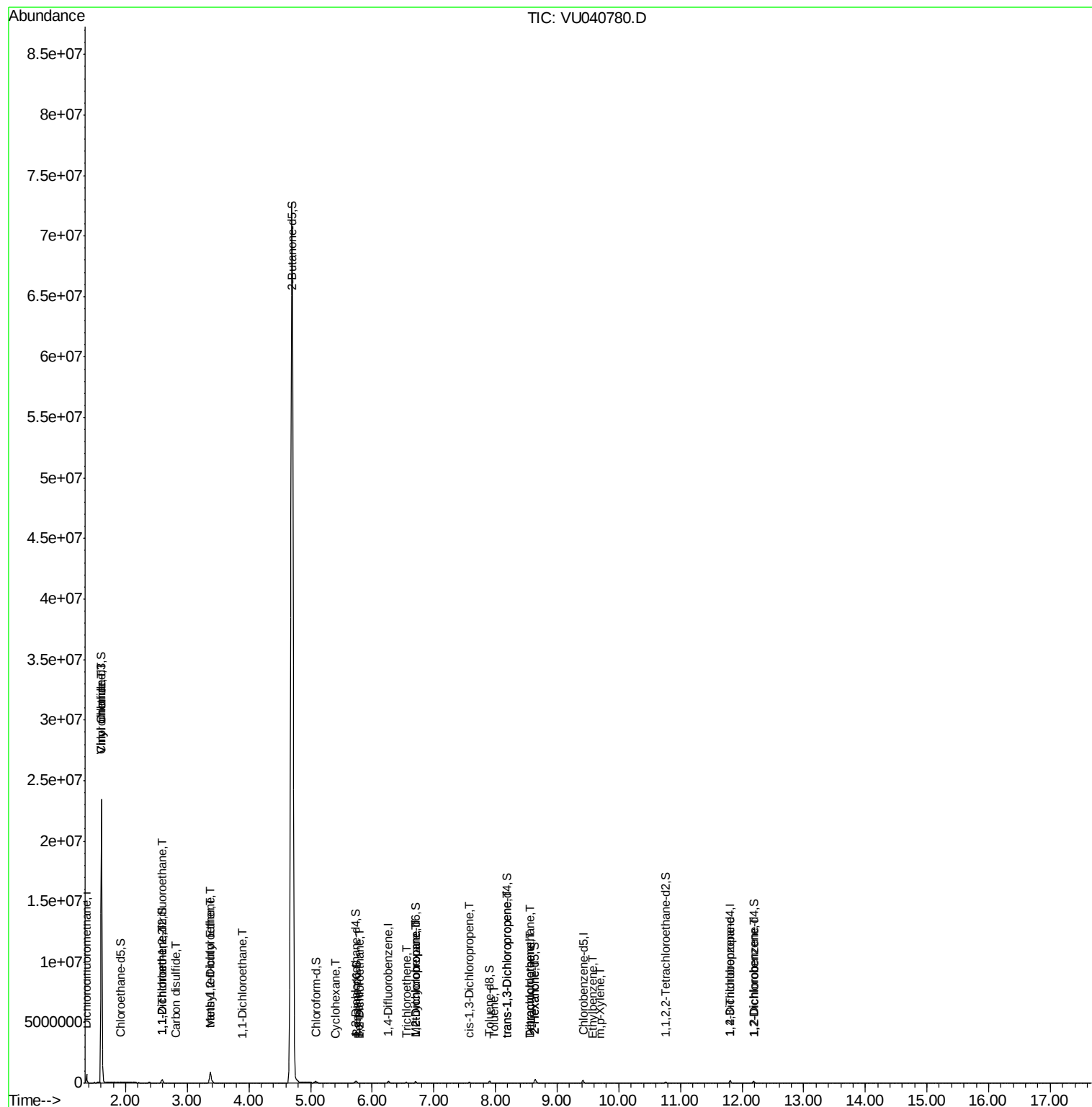
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.18	75	785	0.055	ug/L	86
47) Tetrachloroethene	8.56	164	7144	0.949	ug/L	92
48) 2-Hexanone	8.64	43	17546	2.606	ug/L #	78
49) Dibromochloromethane	8.56	129	7168	0.733	ug/L #	9
52) Ethylbenzene	9.57	91	2002	0.045	ug/L	92
53) m,p-Xylene	9.69	106	2182	0.133	ug/L	89
59) 1,2,3-Trichloropropane	11.81	75	7326	0.879	ug/L #	86
65) 1,2-Dichlorobenzene	12.21	146	1053	0.063	ug/L #	84

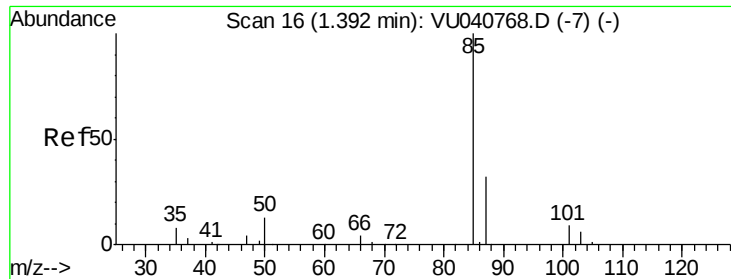
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.090 ug/L

RT: 1.36 min Scan# 7

Delta R.T. -0.03 min

Lab File: VU040780.D

Acq: 17 Oct 2020 22:46

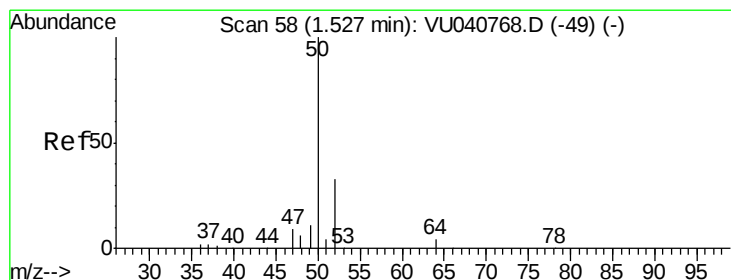
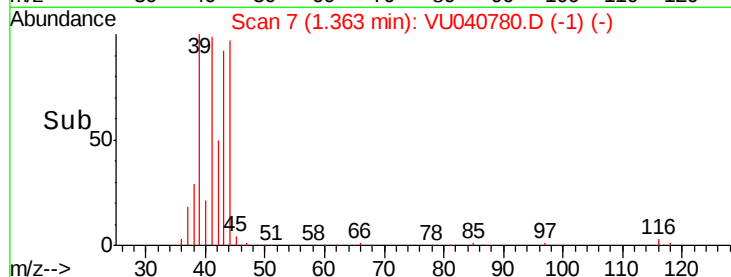
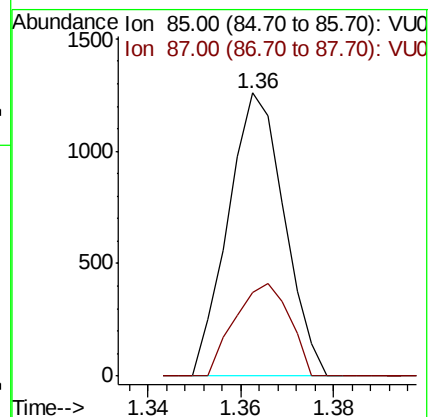
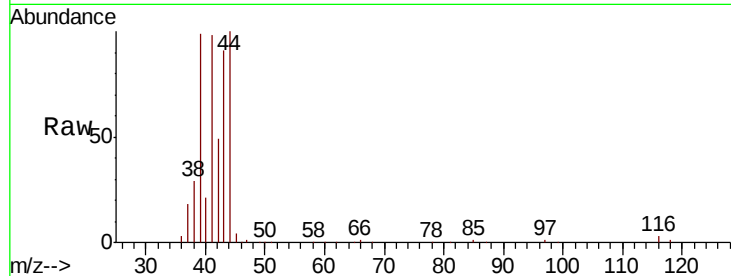
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 1061

Ion Ratio Lower Upper

85 100

87 31.7 26.2 39.4



#3

Chloromethane

Concen: 11.114 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.08 min

Lab File: VU040780.D

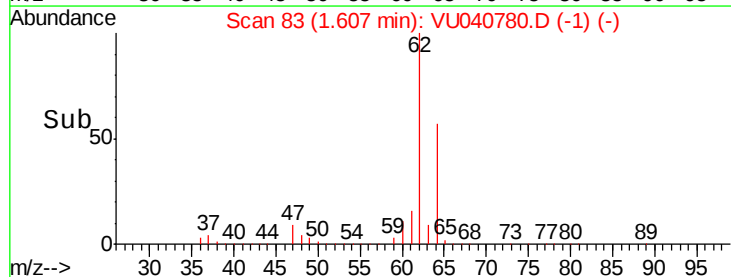
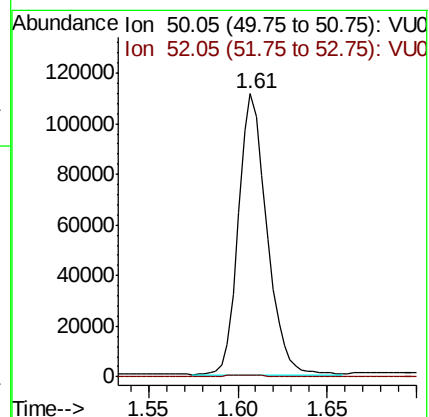
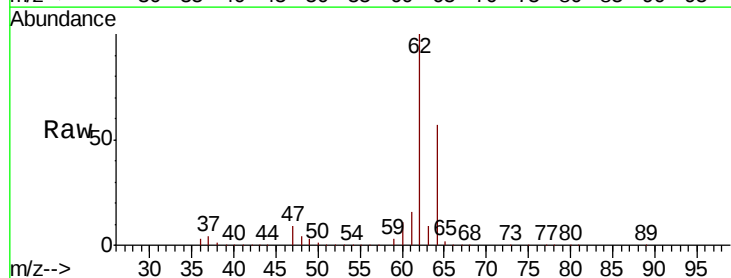
Acq: 17 Oct 2020 22:46

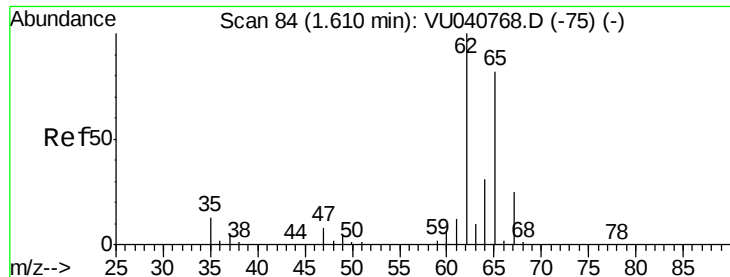
Tgt Ion: 50 Resp: 123059

Ion Ratio Lower Upper

50 100

52 0.4 21.9 40.7#





#5

Vinyl chloride

Concen: 1088.652 ug/L

RT: 1.60 min Scan# 82

Delta R.T. -0.01 min

Lab File: VU040780.D

Acq: 17 Oct 2020 22:46

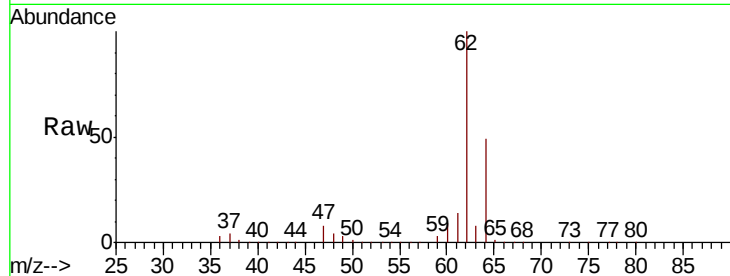
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 12693893

Ion Ratio Lower Upper

62 100

64 49.0 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU040780.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU040780.D (-1) (-)

1.60

8000000

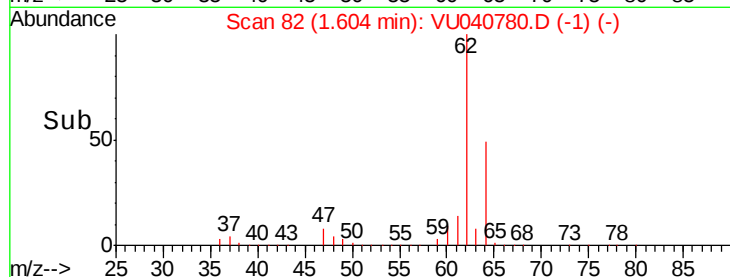
6000000

4000000

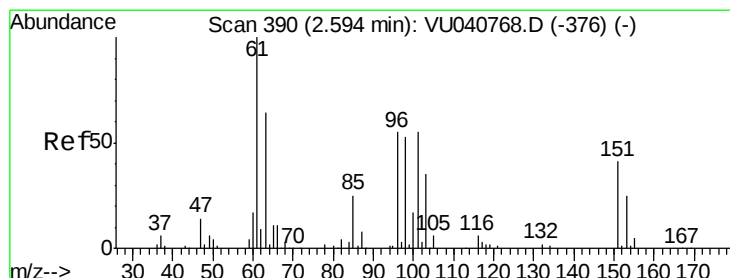
2000000

0

Time-->



Time-->



#10

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

Concen: 0.221 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040780.D

Acq: 17 Oct 2020 22:46

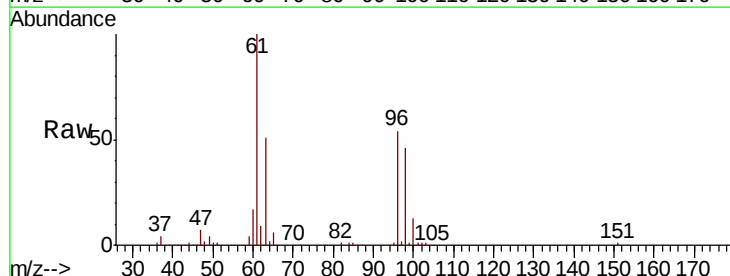
Tgt Ion: 101 Resp: 2401

Ion Ratio Lower Upper

101 100

85 32.9 36.7 55.1#

151 50.9 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): VU040780.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VU040780.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VU040780.D (-297) (-)

2.59

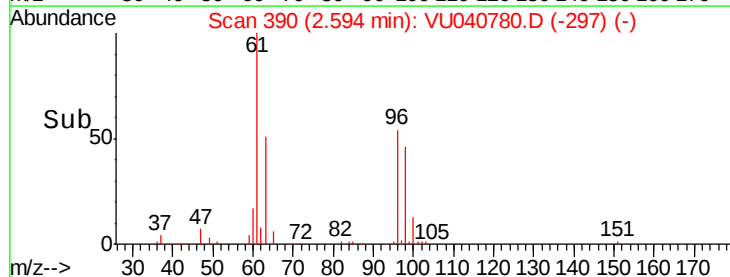
1500

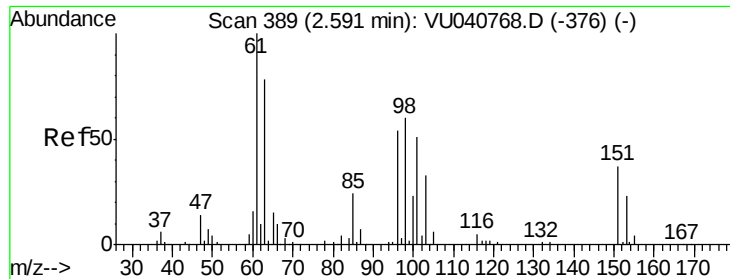
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500

0

Time-->

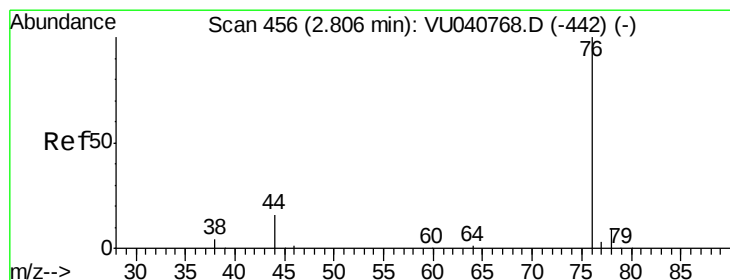
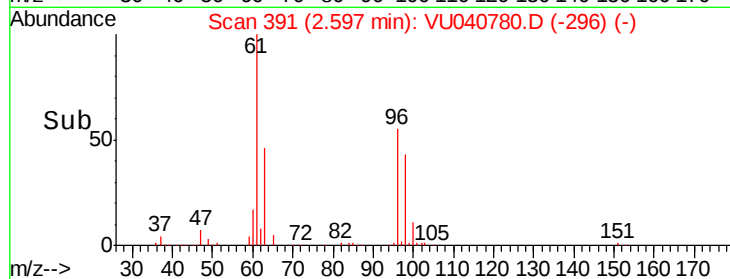
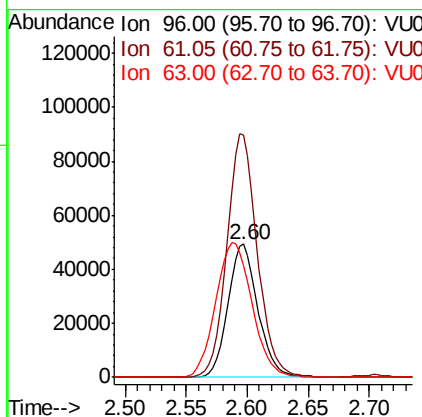
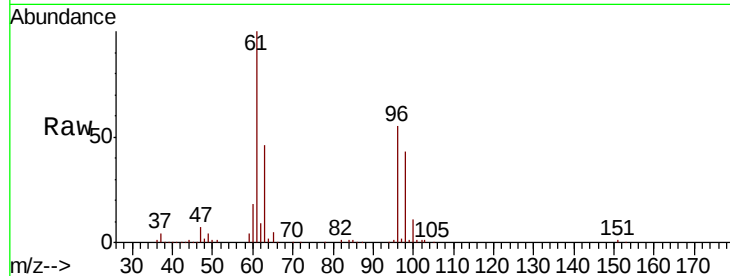




#12
 1,1-Dichloroethene
 Concen: 9.065 ug/L
 RT: 2.60 min Scan# 391
 Delta R.T. 0.01 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

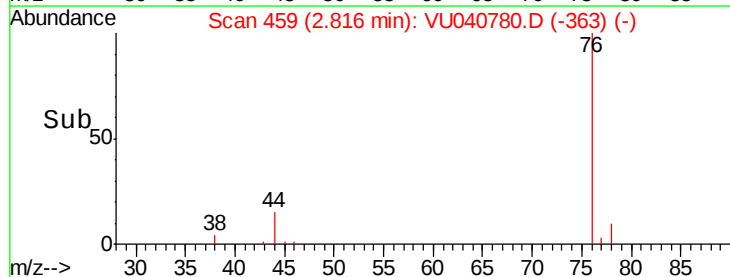
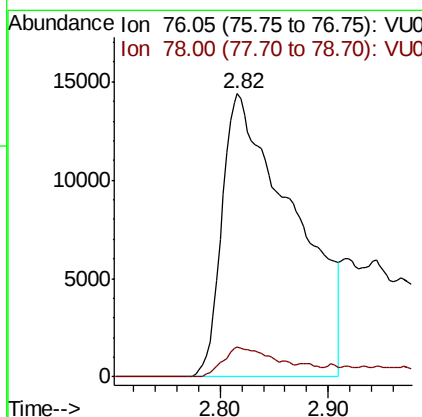
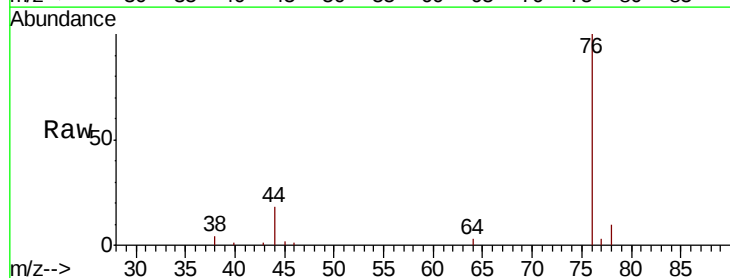
Instrument :
 MSVOA_U
 ClientSampled :

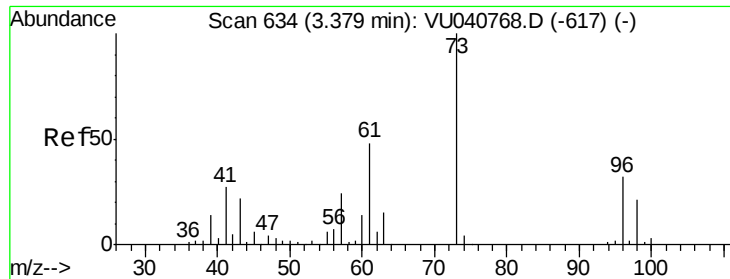
Tot Ion: 96 Resp: 84519
 Ion Ratio Lower Upper
 96 100
 61 182.1 128.8 239.2
 63 84.0 84.6 157.2#



#14
 Carbon disulfide
 Concen: 2.522 ug/L
 RT: 2.82 min Scan# 459
 Delta R.T. 0.01 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

Tgt Ion: 76 Resp: 65835
 Ion Ratio Lower Upper
 76 100
 78 10.4 6.8 10.2#

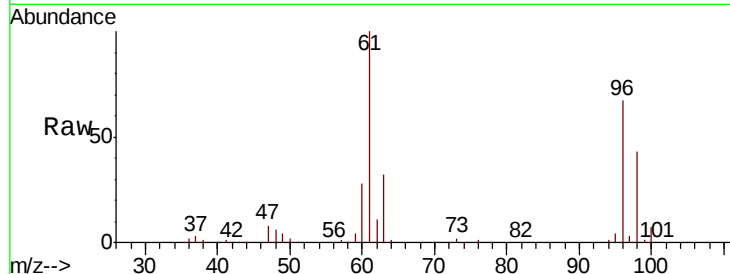




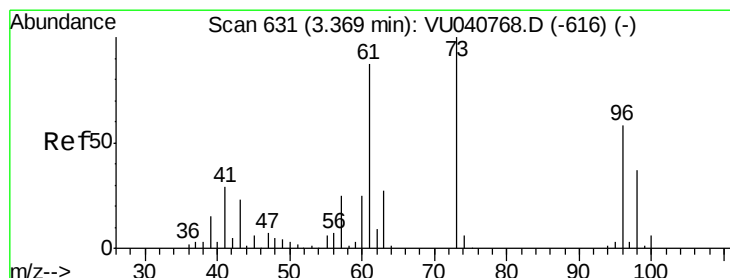
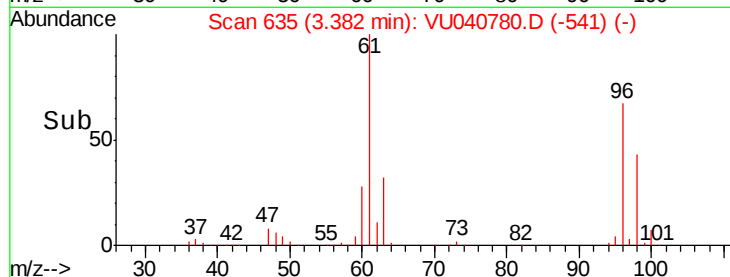
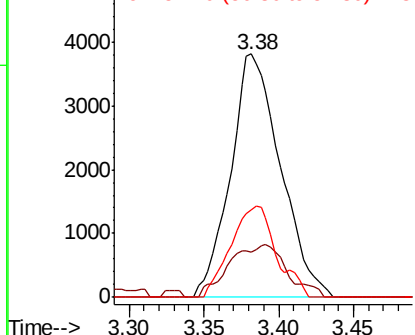
#17
Methvl tert-butvl Ether
Concen: 0.336 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040780.D
Acq: 17 Oct 2020 22:46

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 8860
Ion Ratio Lower Upper
73 100
43 25.1 18.2 27.4
57 34.0 18.6 28.0#

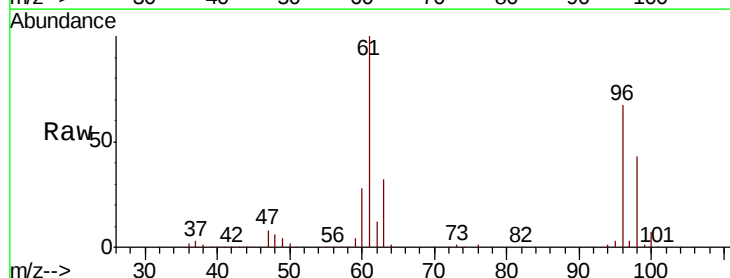


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

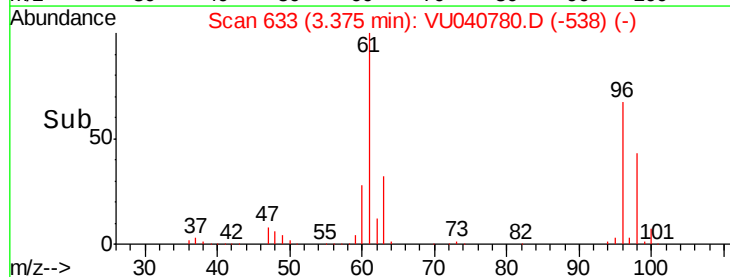
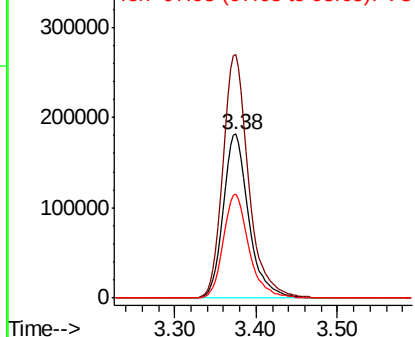


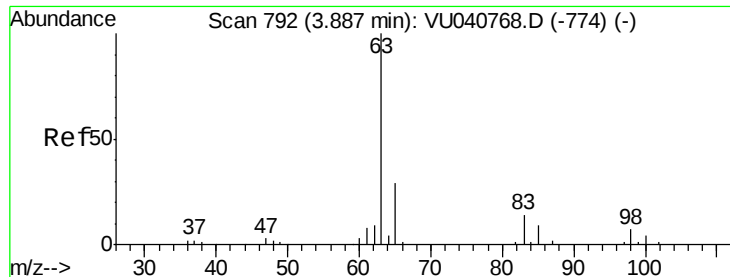
#18
trans-1,2-Dichloroethene
Concen: 41.180 ug/L
RT: 3.38 min Scan# 633
Delta R.T. 0.01 min
Lab File: VU040780.D
Acq: 17 Oct 2020 22:46

Tgt Ion: 96 Resp: 401916
Ion Ratio Lower Upper
96 100
61 148.3 105.9 196.7
98 63.1 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

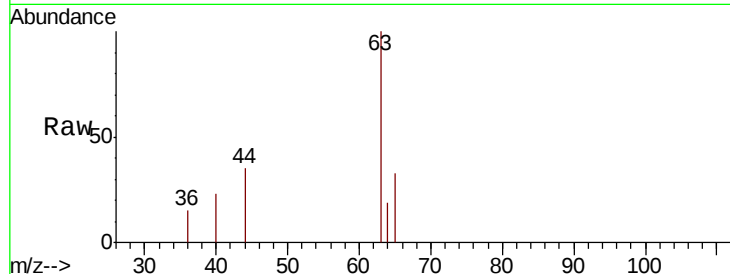




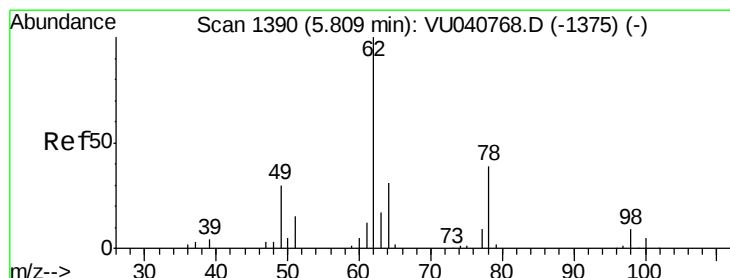
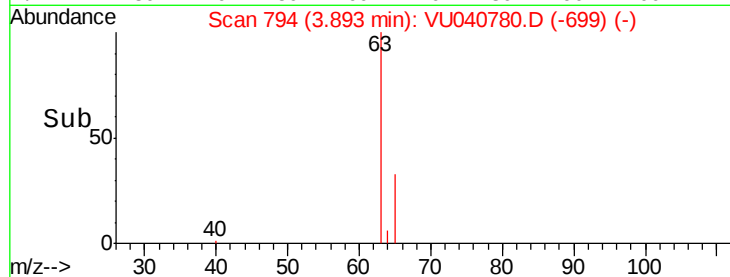
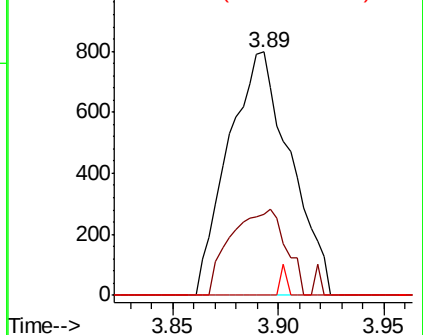
#19
 1,1-Dichloroethane
 Concen: 0.081 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.01 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 1632
 Ion Ratio Lower Upper
 63 100
 65 33.1 21.9 40.7
 83 0.0 9.6 17.8#

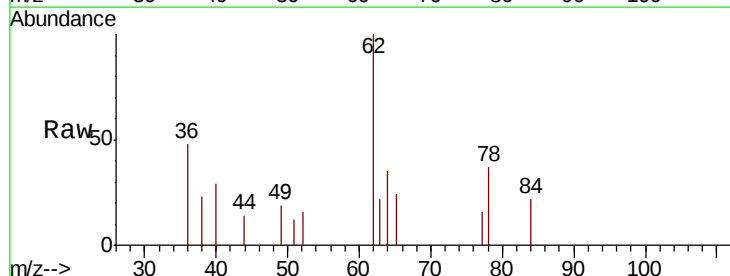


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

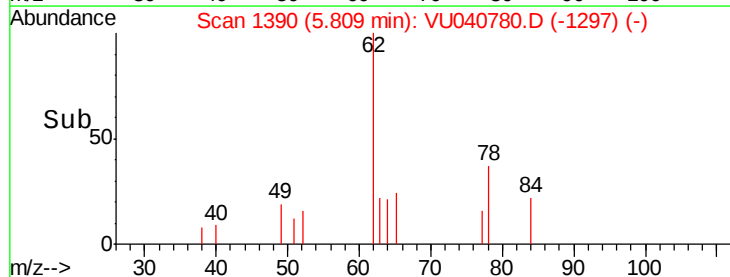
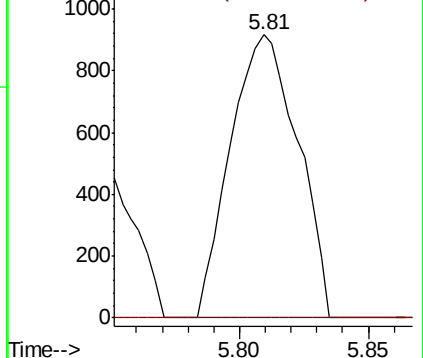


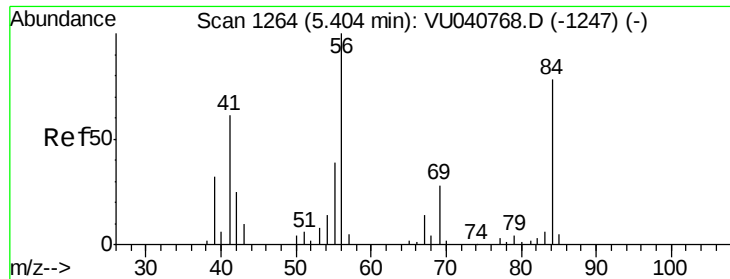
#27
 1,2-Dichloroethane
 Concen: 0.114 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

Tgt Ion: 62 Resp: 1670
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.05 (97.75 to 98.75): VU0

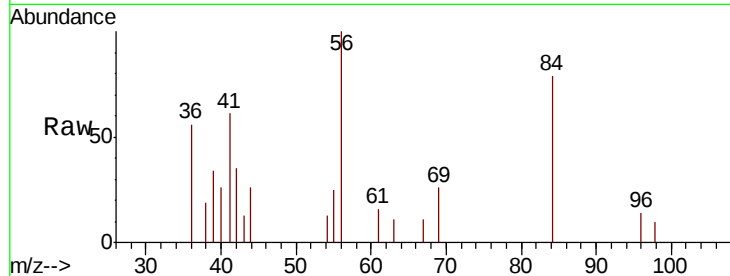




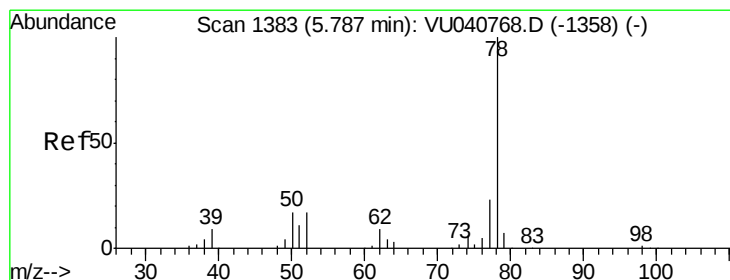
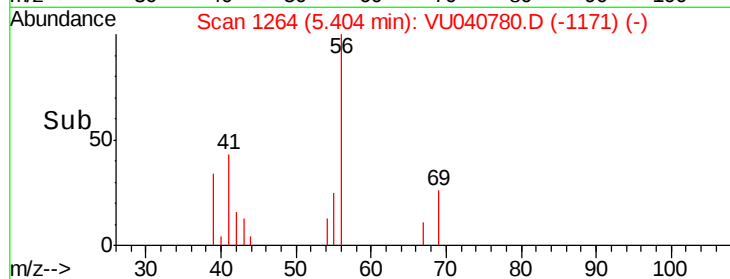
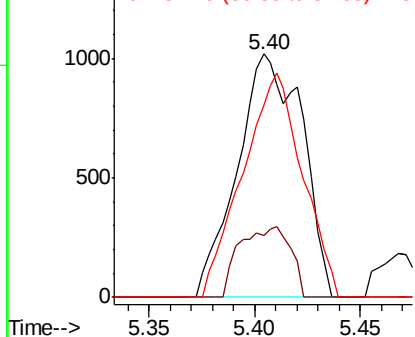
#30
Cyclohexane
Concen: 0.139 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU040780.D
Acq: 17 Oct 2020 22:46

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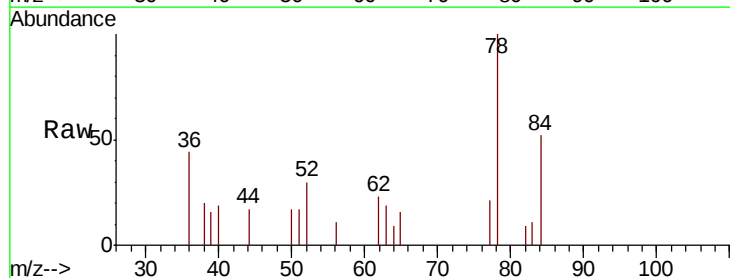
Tot Ion: 56 Resp: 2176
Ion Ratio Lower Upper
56 100
69 22.6 23.8 35.8#
84 84.6 64.0 96.0



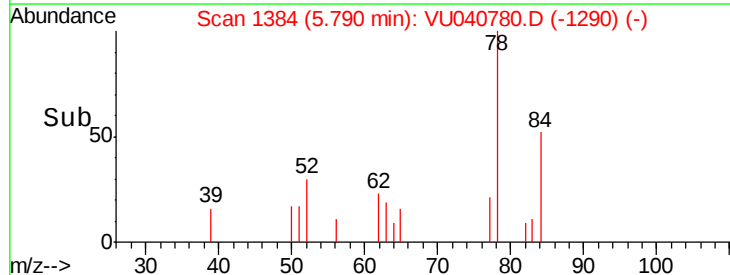
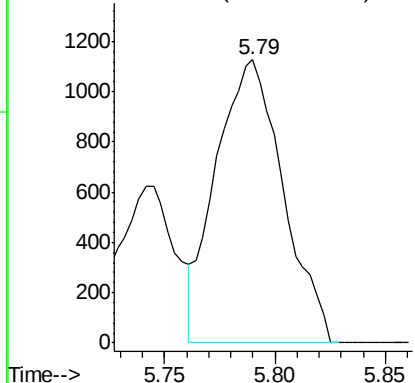
Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

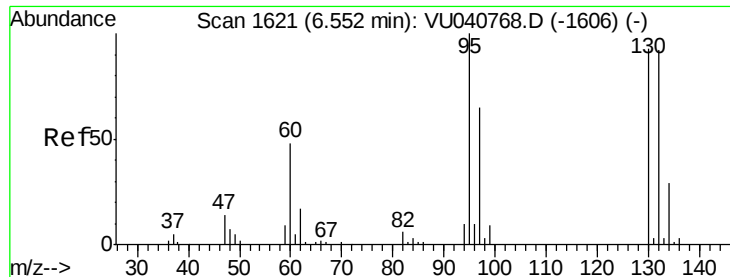


#33
Benzene
Concen: 0.058 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040780.D
Acq: 17 Oct 2020 22:46
Tgt Ion: 78 Resp: 2370



Abundance Ion 78.10 (77.80 to 78.80): VU0

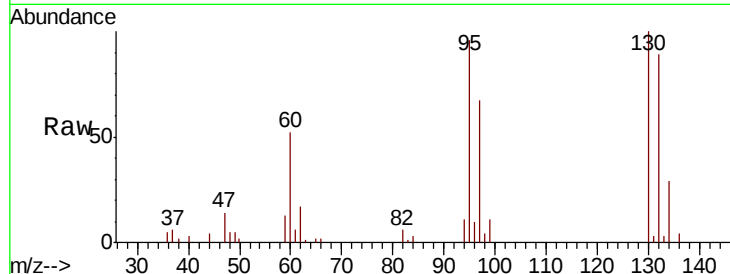




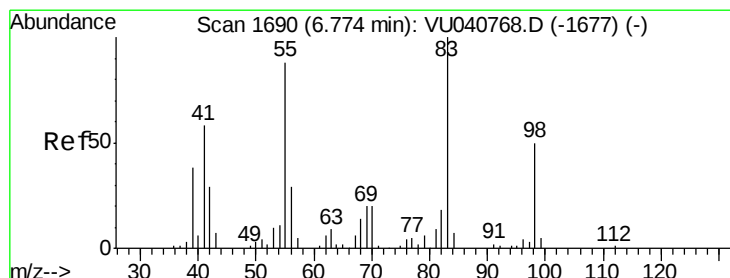
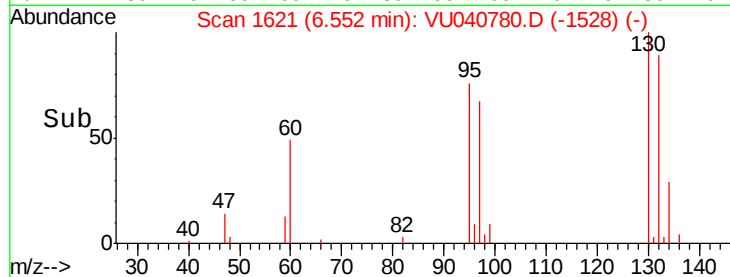
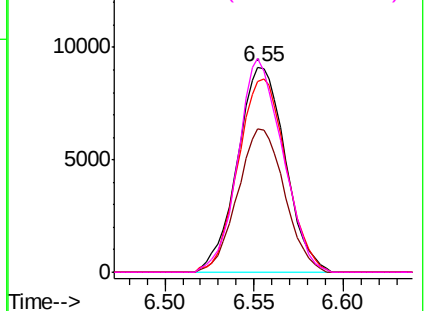
#34
 Trichloroethene
 Concen: 1.623 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 17127
 Ion Ratio Lower Upper
 95 100
 97 69.8 45.5 84.5
 132 92.8 67.5 125.4
 130 104.2 69.9 129.9

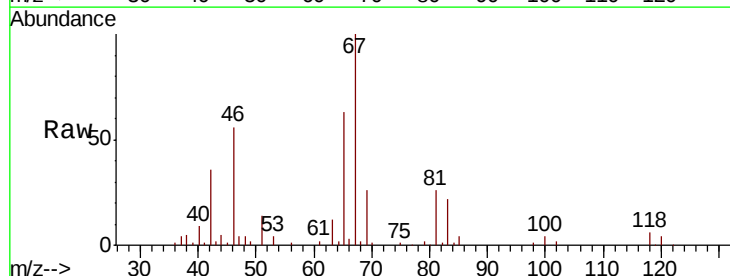


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

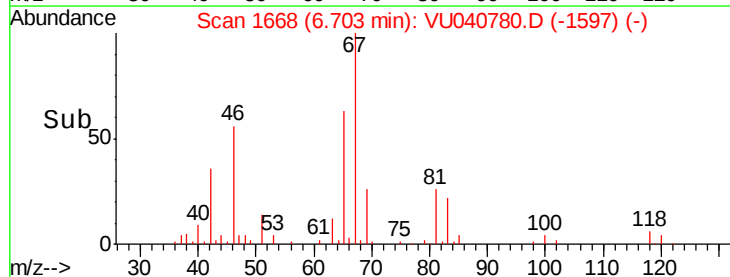
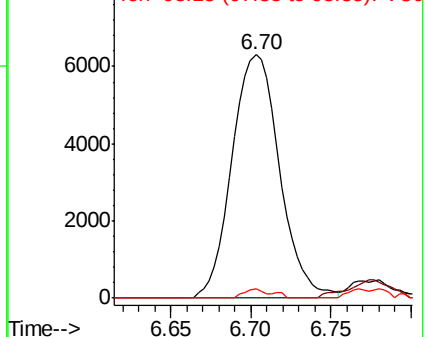


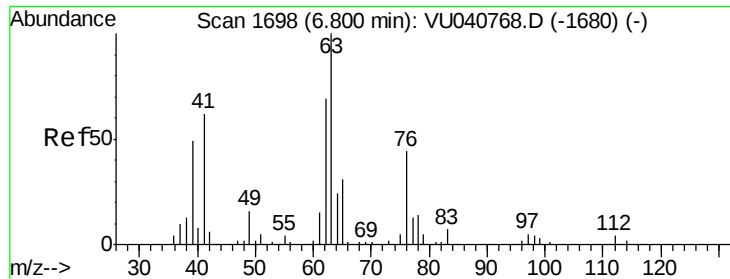
#35
 Methylcyclohexane
 Concen: 0.858 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

Tgt Ion: 83 Resp: 12845
 Ion Ratio Lower Upper
 83 100
 55 0.0 70.7 106.1#
 98 2.1 38.4 57.6#



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

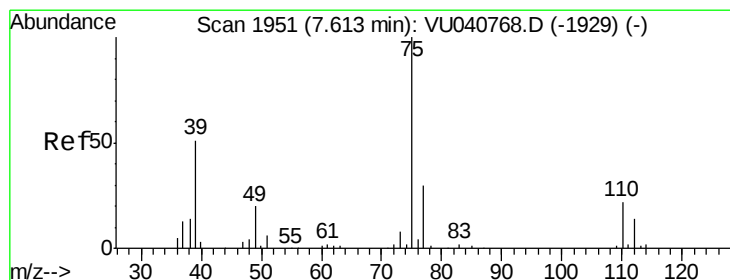
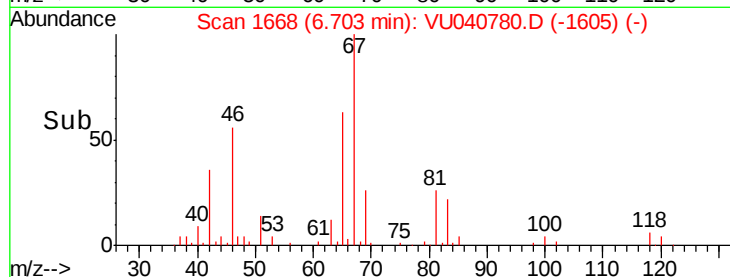
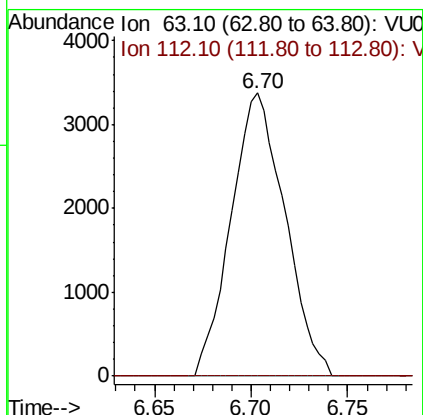
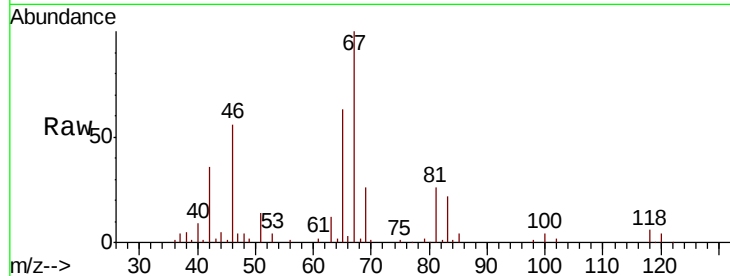




#37
 1,2-Dichloropropane
 Concen: 0.577 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

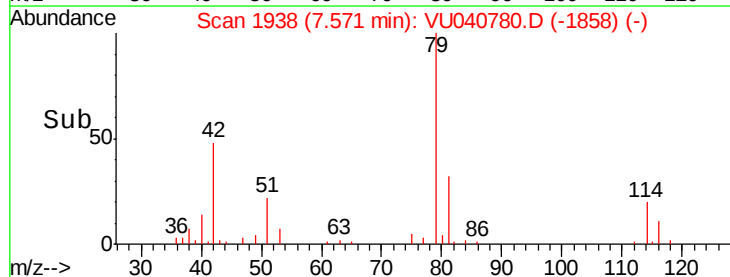
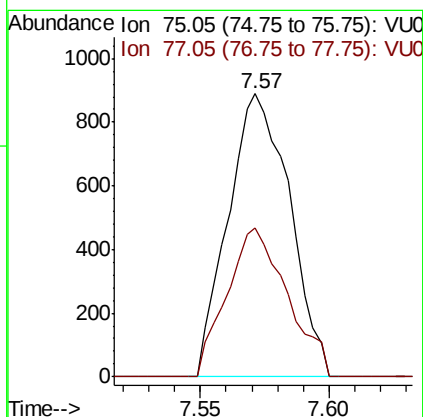
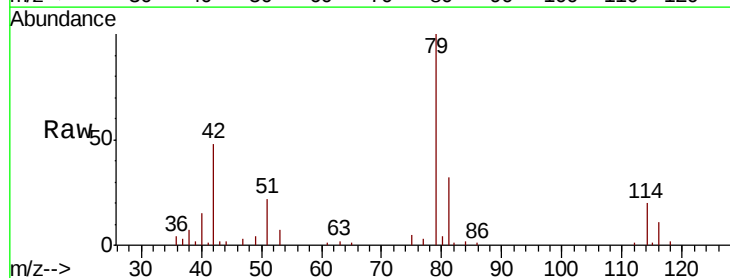
Instrument :
 MSVOA_U
 ClientSampleId :

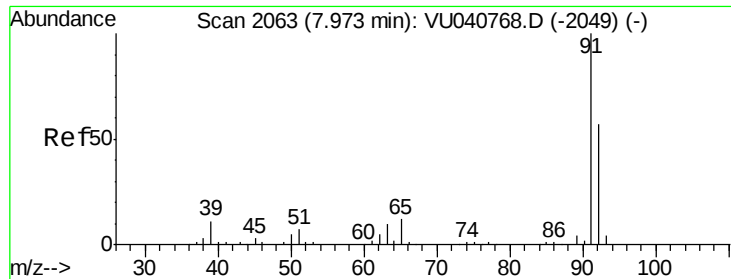
Tot Ion: 63 Resp: 6544
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.095 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

Tgt Ion: 75 Resp: 1473
 Ion Ratio Lower Upper
 75 100
 77 52.8 20.5 38.1#





#42

Toluene

Concen: 0.176 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040780.D

Acq: 17 Oct 2020 22:46

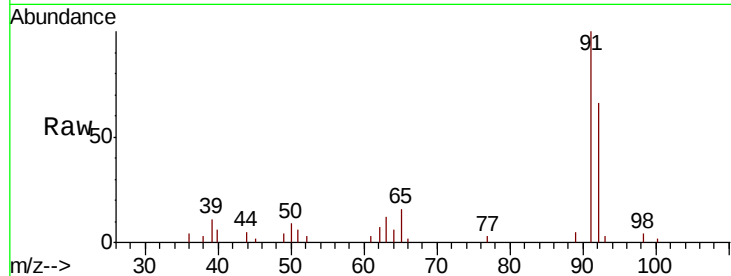
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 7289

Ion Ratio Lower Upper

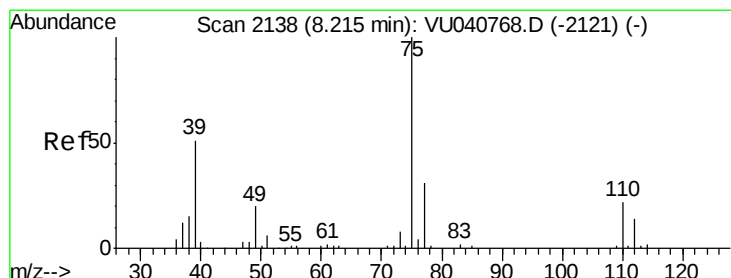
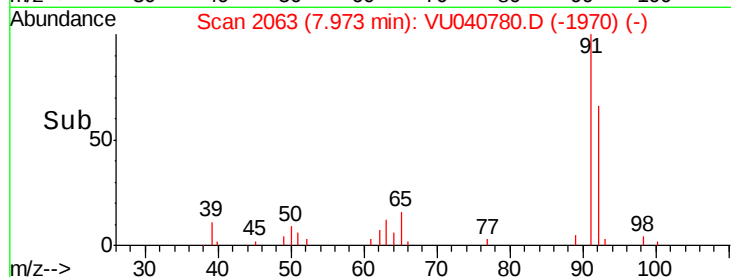
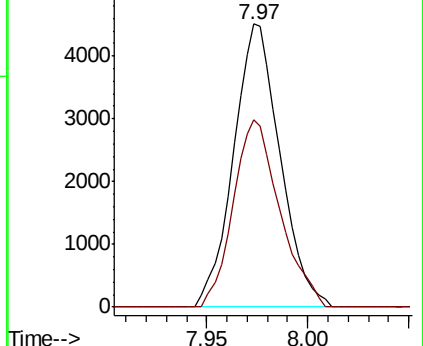
91 100

92 66.4 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU040768.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU040768.D (-2049) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.055 ug/L

RT: 8.18 min Scan# 2127

Delta R.T. -0.04 min

Lab File: VU040780.D

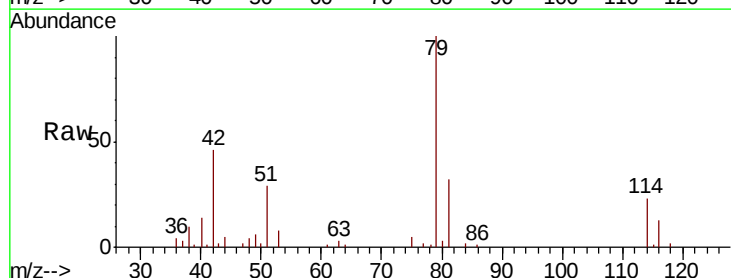
Acq: 17 Oct 2020 22:46

Tgt Ion: 75 Resp: 785

Ion Ratio Lower Upper

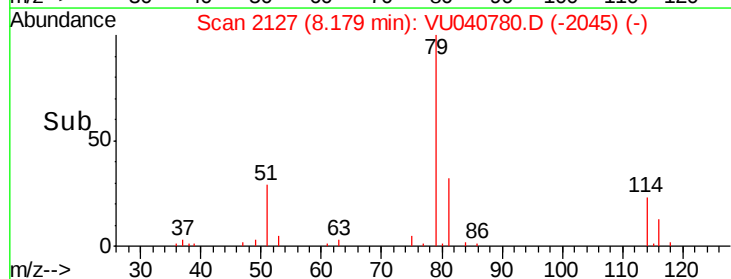
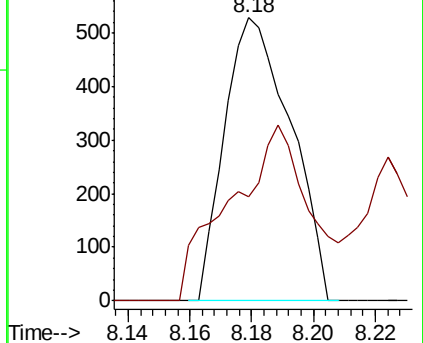
75 100

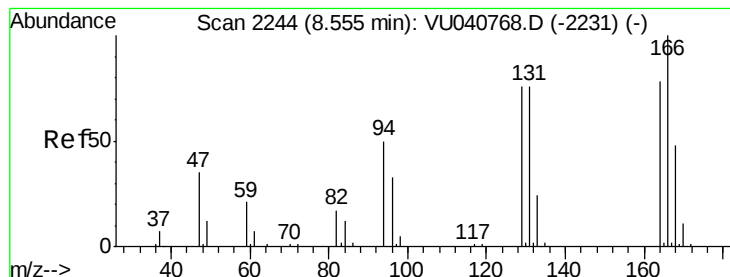
77 36.9 20.4 38.0



Abundance Ion 75.05 (74.75 to 75.75): VU040768.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU040768.D (-2121) (-)





#47

Tetrachloroethene

Concen: 0.949 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040780.D

Acq: 17 Oct 2020 22:46

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 7144

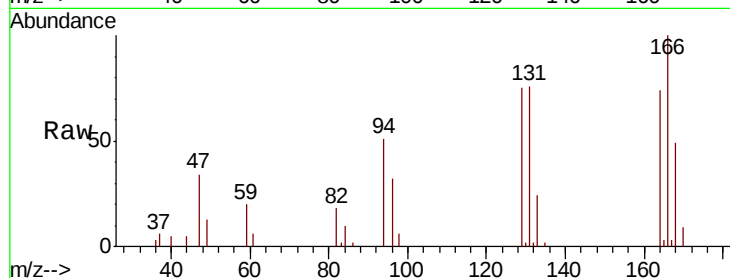
Ion Ratio Lower Upper

164 100

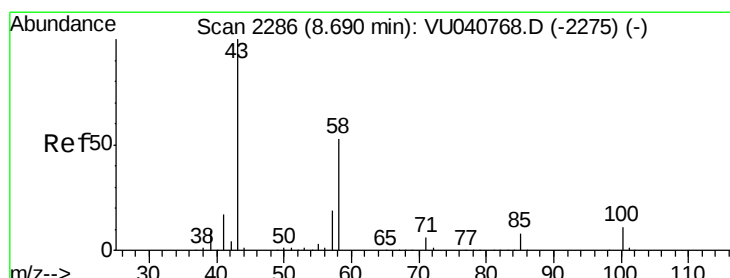
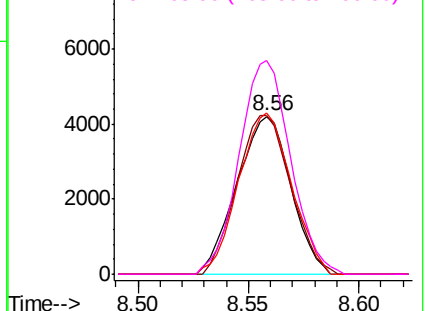
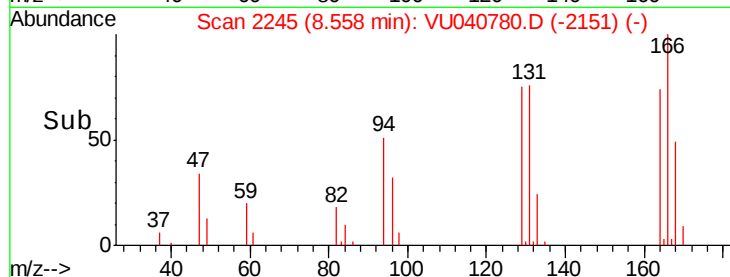
129 100.8 68.8 127.8

131 102.2 66.7 123.9

166 135.3 83.9 155.7



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



#48

2-Hexanone

Concen: 2.606 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040780.D

Acq: 17 Oct 2020 22:46

Tgt Ion: 43 Resp: 17546

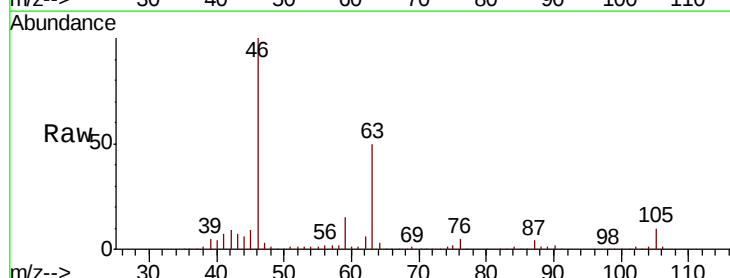
Ion Ratio Lower Upper

43 100

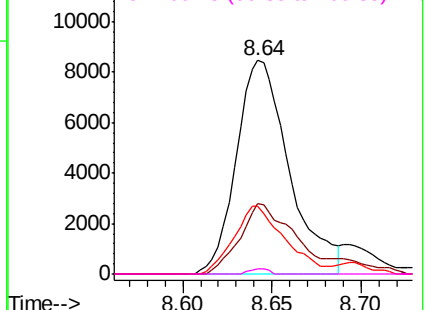
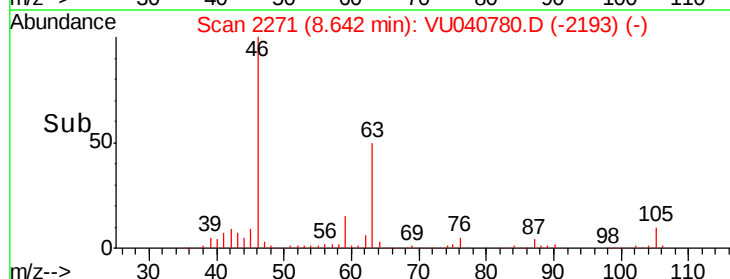
58 38.6 41.0 61.6#

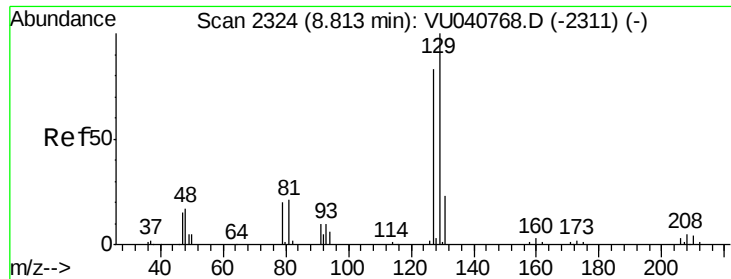
57 30.5 14.4 21.6#

100 0.9 8.6 13.0#



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

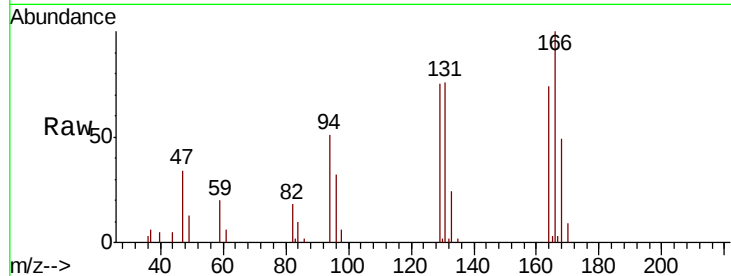




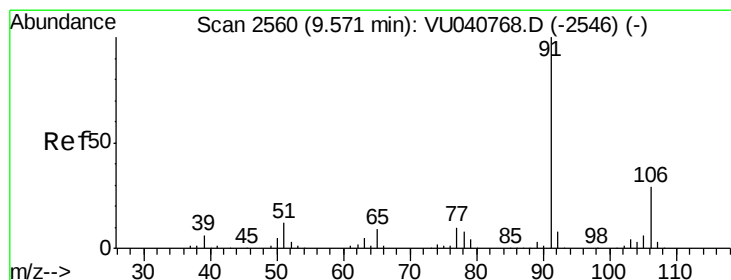
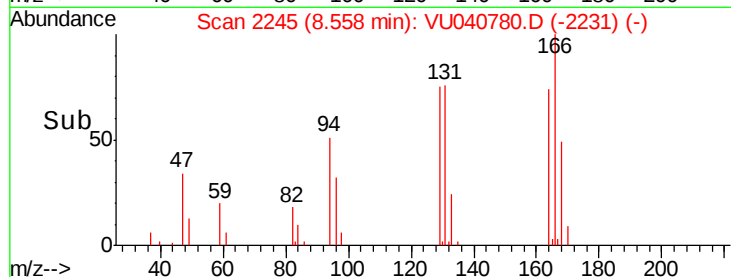
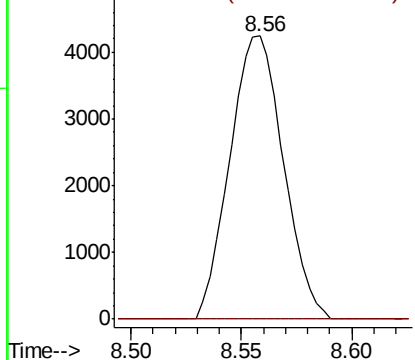
#49
Dibromochloromethane
Concen: 0.733 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.25 min
Lab File: VU040780.D
Acq: 17 Oct 2020 22:46

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:129 Resp: 7168
Ion Ratio Lower Upper
129 100
127 0.0 55.8 103.6#

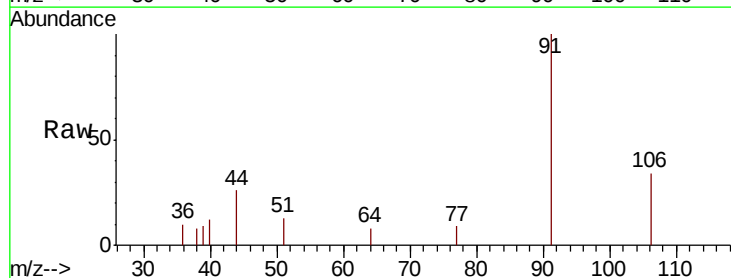


Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

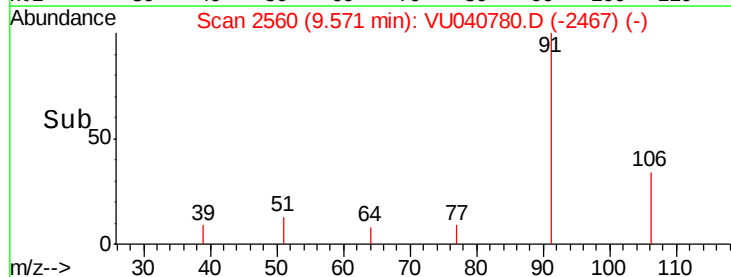
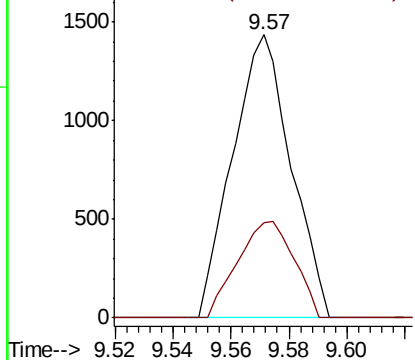


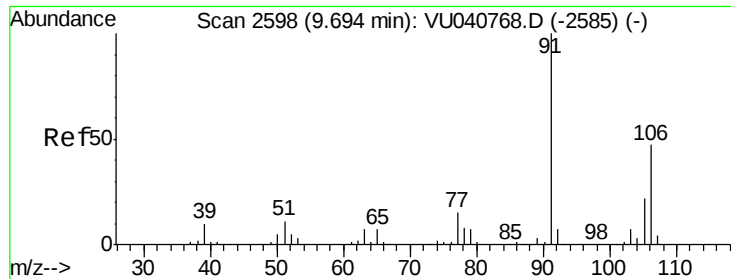
#52
Ethylbenzene
Concen: 0.045 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. -0.00 min
Lab File: VU040780.D
Acq: 17 Oct 2020 22:46

Tgt Ion: 91 Resp: 2002
Ion Ratio Lower Upper
91 100
106 33.7 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.133 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040780.D

Acq: 17 Oct 2020 22:46

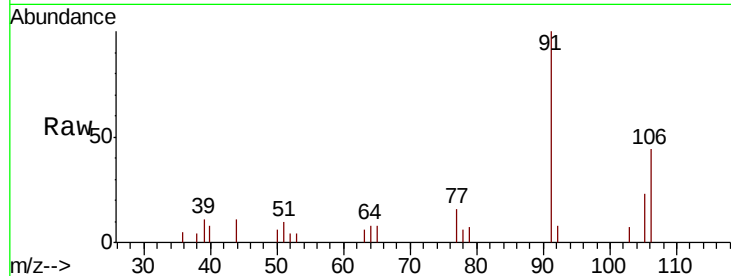
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 2182

Ion Ratio Lower Upper

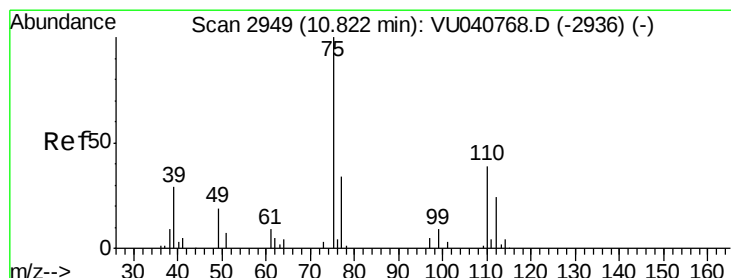
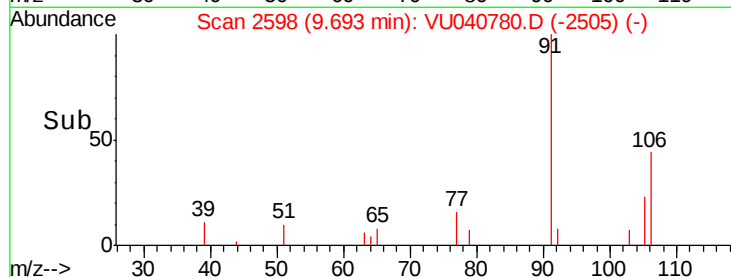
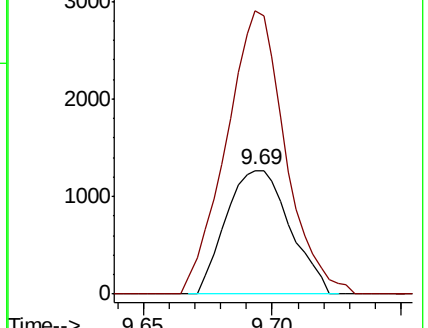
106 100

91 228.8 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040780.D (-2585) (-)

Ion 91.15 (90.85 to 91.85): VU040780.D (-2585) (-)



#59

1,2,3-Trichloropropane

Concen: 0.879 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040780.D

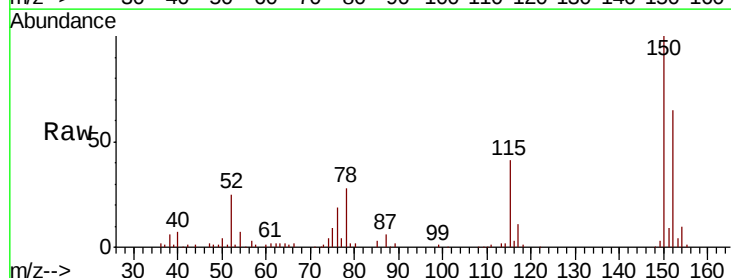
Acq: 17 Oct 2020 22:46

Tgt Ion: 75 Resp: 7326

Ion Ratio Lower Upper

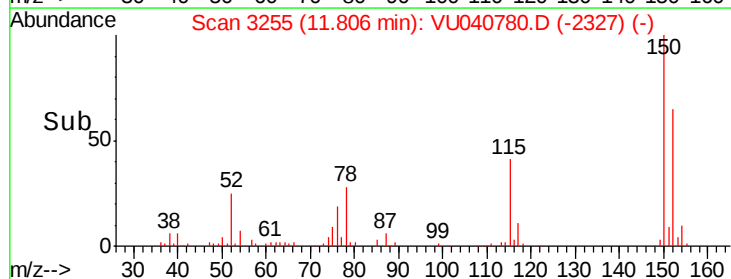
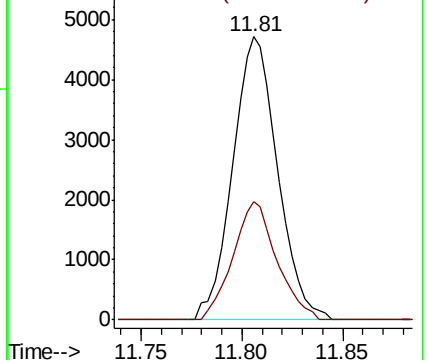
75 100

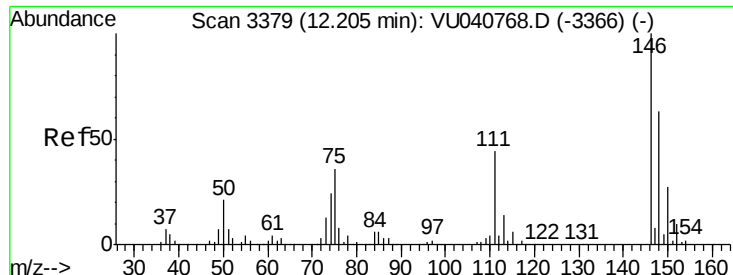
77 40.8 26.4 39.6#



Abundance Ion 75.00 (74.70 to 75.70): VU040780.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040780.D (-2936) (-)

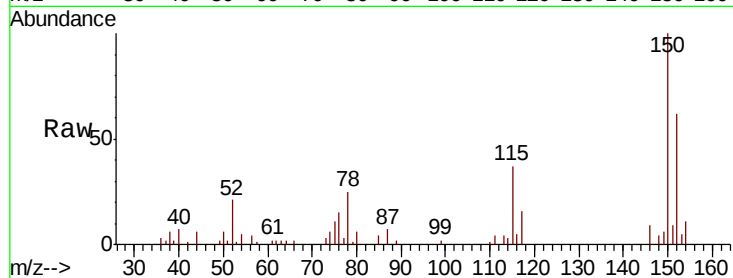




#65
 1,2-Dichlorobenzene
 Concen: 0.063 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040780.D
 Acq: 17 Oct 2020 22:46

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.2	34.4	51.6
148	44.6	50.0	75.0



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

