

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110320\
 Data File : VU041086.D
 Acq On : 03 Nov 2020 18:32
 Operator : SY/MD
 Sample : L4575-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA3

Quant Time: Nov 04 01:01:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 04 00:51:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	52224	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	53568	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	22125	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	17192	3.92	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.40%
7) Chloroethane-d5	1.92	69	14129	4.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.80%
11) 1,1-Dichloroethene-d2	2.58	63	25458	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	4.66	46	75939	52.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.12%
24) Chloroform-d	5.08	84	34321	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
26) 1,2-Dichloroethane-d4	5.72	65	21699	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
32) Benzene-d6	5.74	84	61805	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.20%
36) 1,2-Dichloropropane-d6	6.70	67	22077	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.60%
41) Toluene-d8	7.91	98	48858	3.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.20%
43) trans-1,3-Dichloropropene-	8.19	79	8487	4.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.00%
46) 2-Hexanone-d5	8.64	63	56464	51.87	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.74%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	19749	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	19529	5.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.60%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	323	0.065	ug/L 92
8) Chloroethane	1.96	64	186	0.060	ug/L # 43
9) Trichlorofluoromethane	2.15	101	190376	28.557	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	225	0.058	ug/L # 22
13) Acetone	2.66	43	1252	1.267	ug/L 92
22) cis-1,2-Dichloroethene	4.69	96	794	0.205	ug/L 90
25) Chloroform	5.11	83	2977	0.396	ug/L 94
27) 1,2-Dichloroethane	5.75	62	341	0.061	ug/L # 74
31) Carbon tetrachloride	5.54	117	4273	0.737	ug/L 92
34) Trichloroethene	6.56	95	3295	0.809	ug/L 87
35) Methylcyclohexane	6.70	83	4832	0.795	ug/L # 15
37) 1,2-Dichloropropane	6.70	63	2553	0.589	ug/L # 86
39) cis-1,3-Dichloropropene	7.57	75	499	0.084	ug/L # 54
40) 4-Methyl-2-pentanone	7.72	43	2565	0.743	ug/L # 45
44) trans-1,3-Dichloropropene	8.18	75	363	0.065	ug/L # 82
45) 1,1,2-Trichloroethane	8.40	97	678	0.210	ug/L 87
47) Tetrachloroethene	8.56	164	329602	110.043	ug/L 98

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ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: Nov 04 01:01:31 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 04 00:51:13 2020
Response via : Initial Calibration

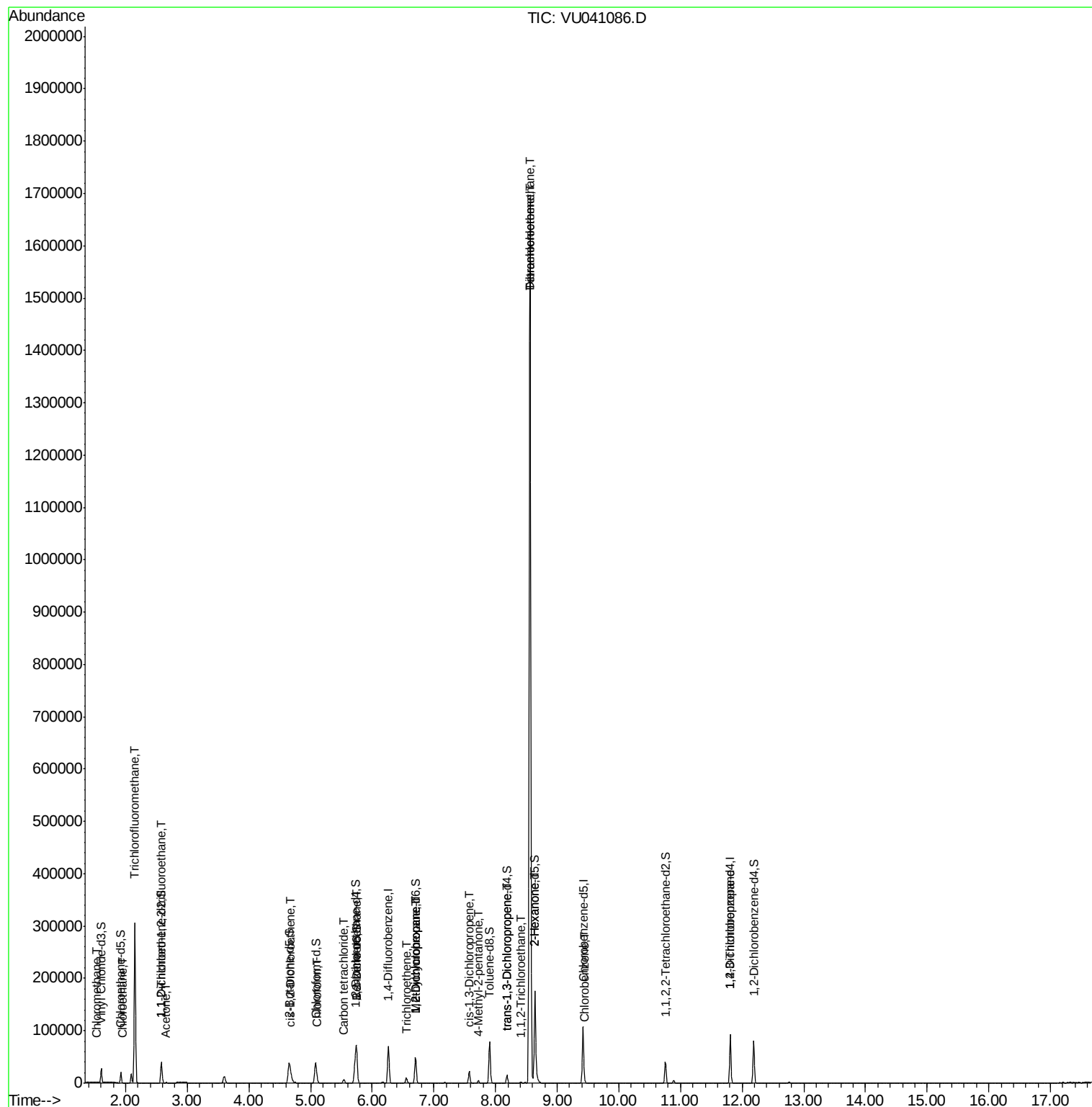
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	7901	3.039	ug/L #	69
49) Dibromochloromethane	8.56	129	337334	90.096	ug/L #	11
51) Chlorobenzene	9.45	112	826	0.080	ug/L	92
59) 1,2,3-Trichloropropane	11.81	75	3275	1.015	ug/L	94

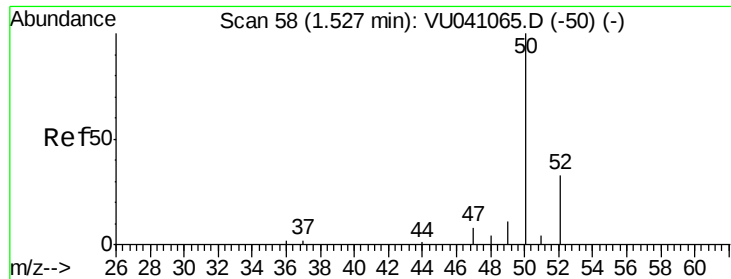
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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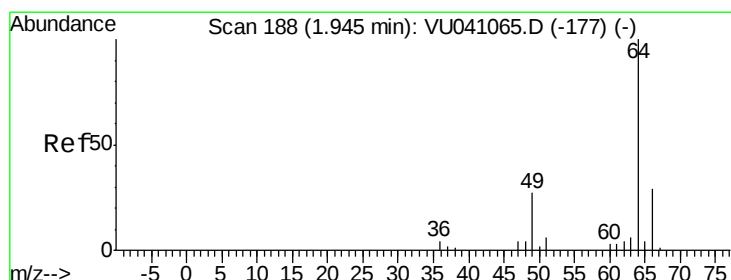
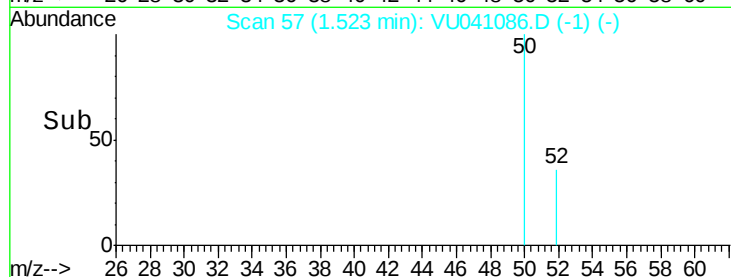
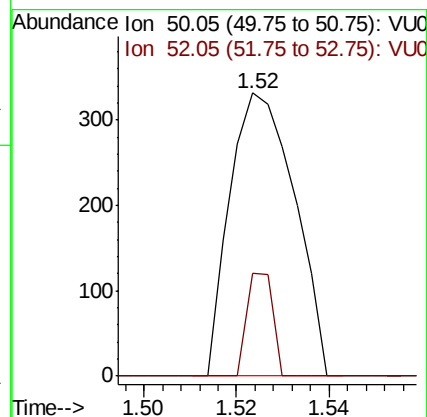
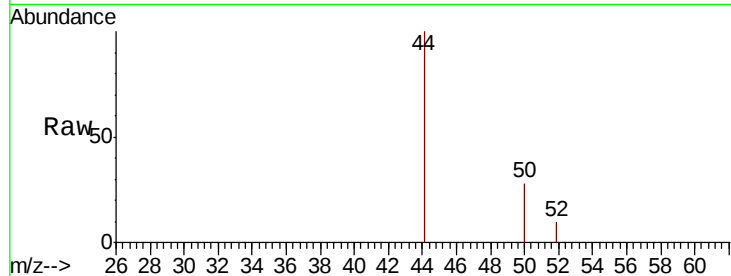




#3
Chloromethane
Concen: 0.065 ug/L
RT: 1.52 min Scan# 57
Delta R.T. -0.00 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

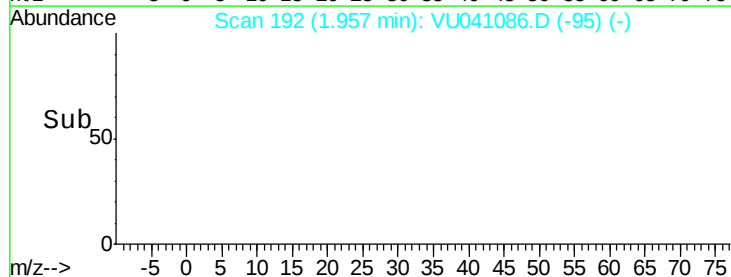
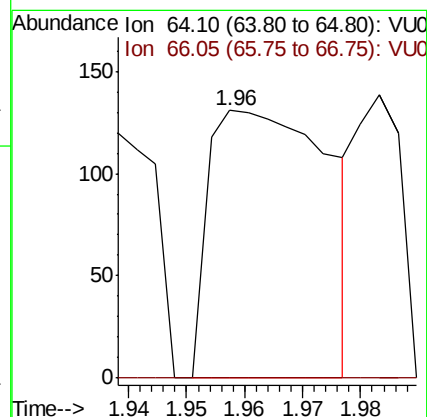
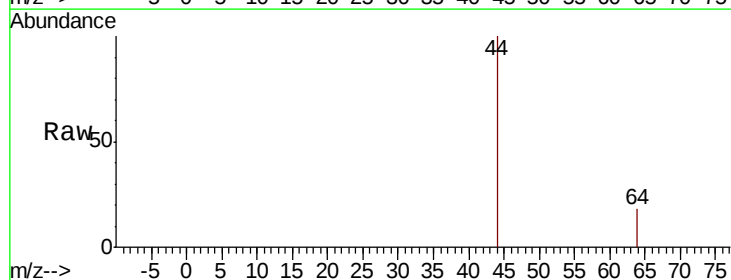
Instrument :
MSVOA_U
ClientSampleId :
C0AA3

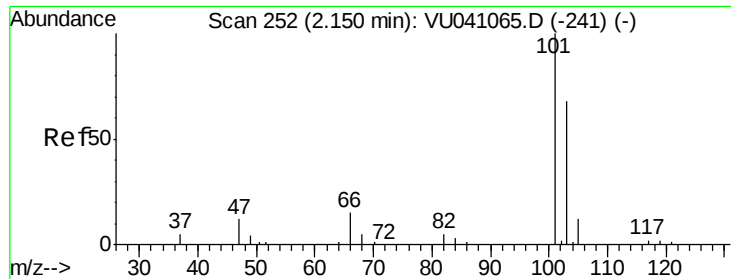
Tot Ion: 50 Resp: 323
Ion Ratio Lower Upper
50 100
52 36.4 22.4 41.6



#8
Chloroethane
Concen: 0.060 ug/L
RT: 1.96 min Scan# 192
Delta R.T. 0.01 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

Tgt Ion: 64 Resp: 186
Ion Ratio Lower Upper
64 100
66 0.0 22.3 41.5#



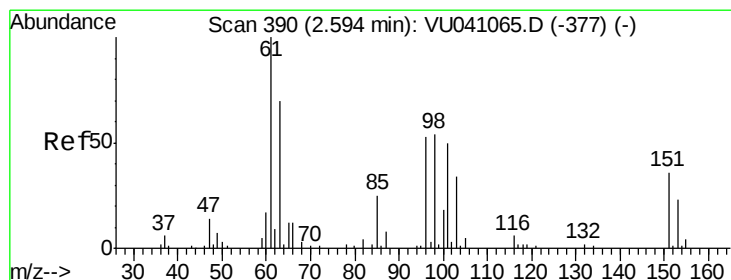
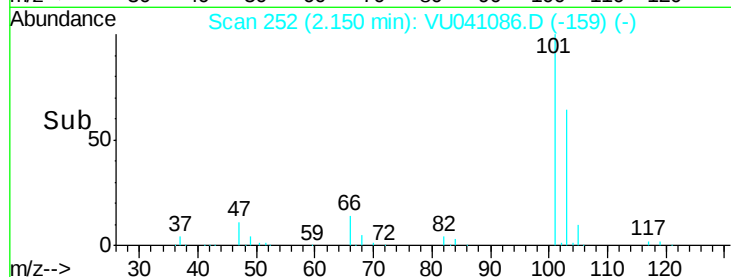
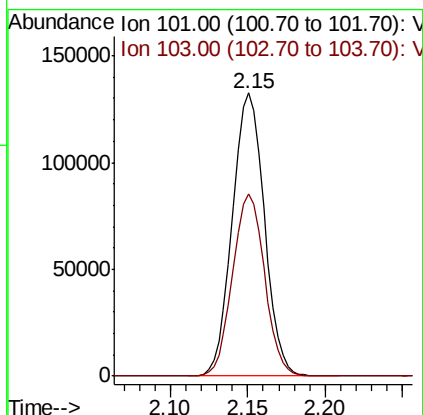
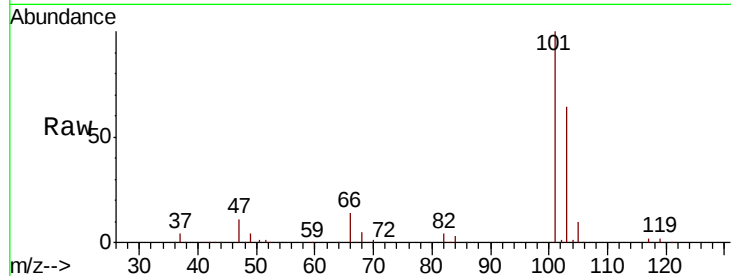


#9

Trichlorofluoromethane
 Concen: 28.557 ug/L
 RT: 2.15 min Scan# 252
 Delta R.T. 0.00 min
 Lab File: VU041086.D
 Acq: 03 Nov 2020 18:32

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA3

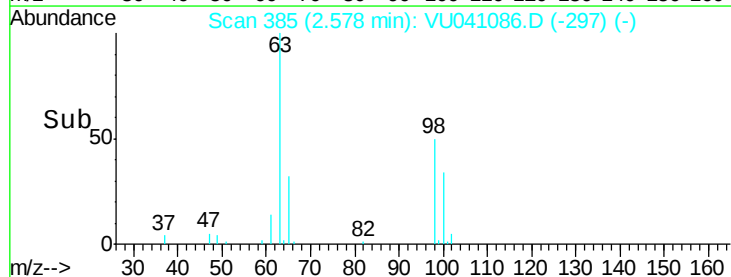
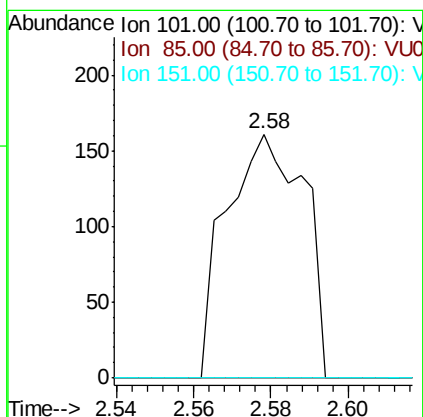
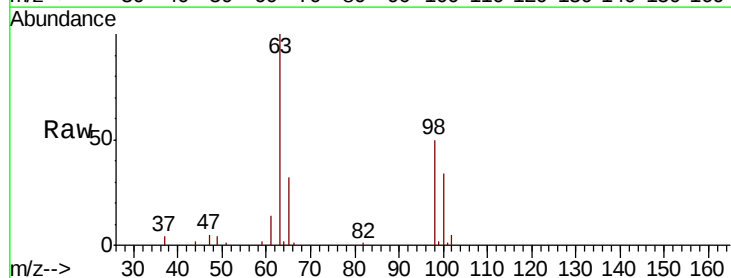
Tot Ion:101 Resp: 190376
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.0 76.4

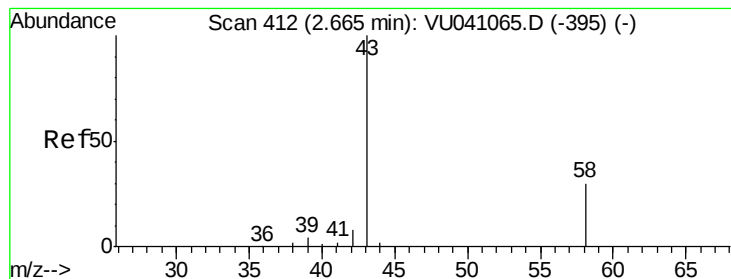


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.058 ug/L
 RT: 2.58 min Scan# 385
 Delta R.T. -0.02 min
 Lab File: VU041086.D
 Acq: 03 Nov 2020 18:32

Tgt Ion:101 Resp: 225
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.0 52.4#
 151 0.0 55.3 82.9#





#13

Acetone

Concen: 1.267 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.01 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

Instrument :

MSVOA_U

ClientSampleId :

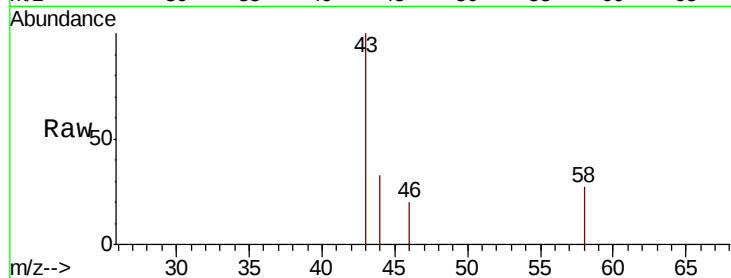
C0AA3

Tot Ion: 43 Resp: 1252

Ion Ratio Lower Upper

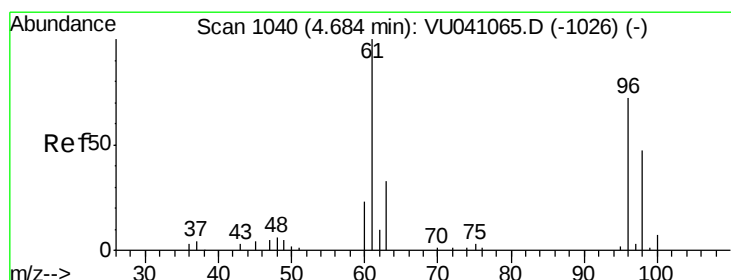
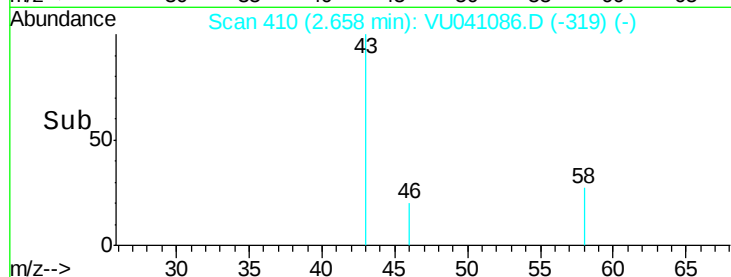
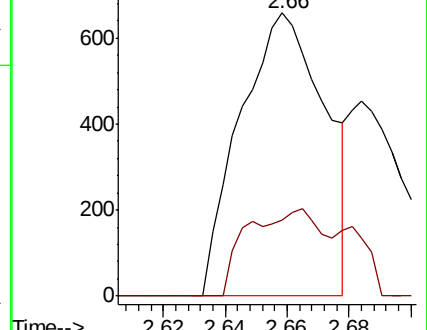
43 100

58 15.9 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU041086.D (-319) (-)

Ion 58.05 (57.75 to 58.75): VU041086.D (-319) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.205 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

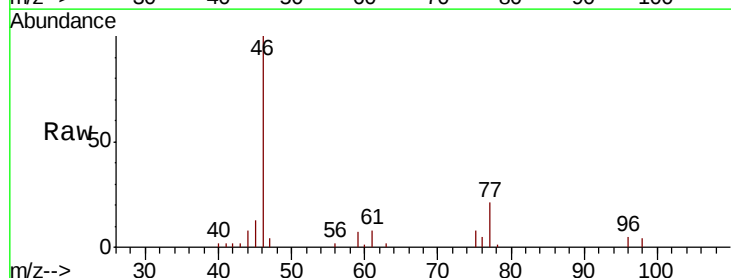
Tgt Ion: 96 Resp: 794

Ion Ratio Lower Upper

96 100

61 150.3 97.2 180.4

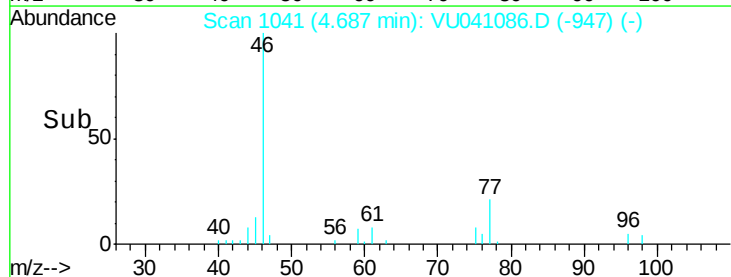
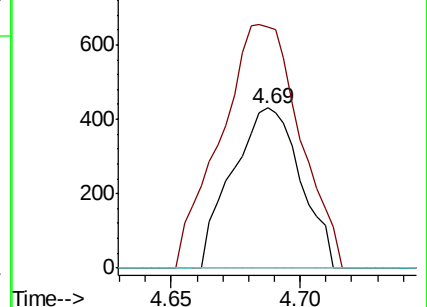
68 0.0 0.0 0.0

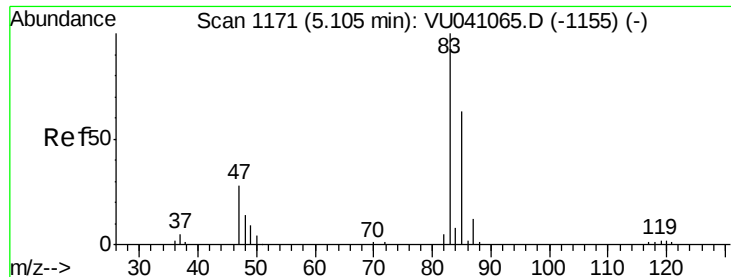


Abundance Ion 96.00 (95.70 to 96.70): VU041086.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU041086.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU041086.D (-947) (-)

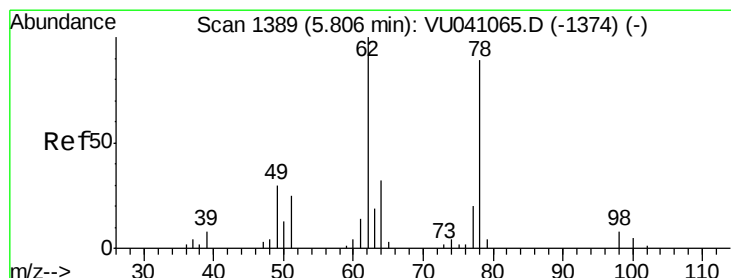
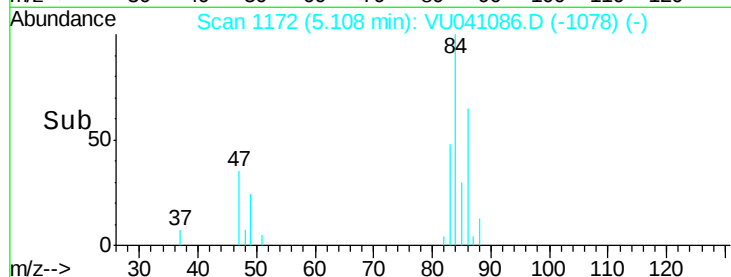
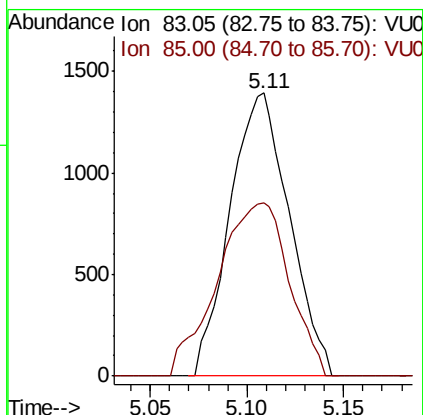
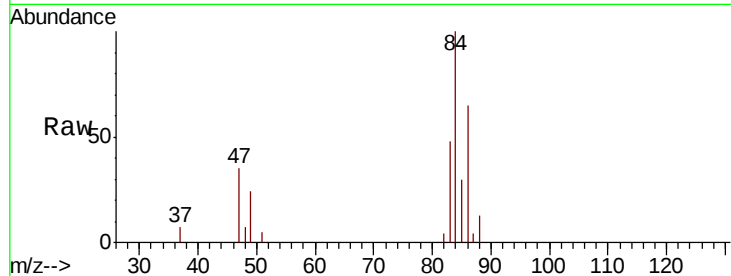




#25
Chloroform
Concen: 0.396 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

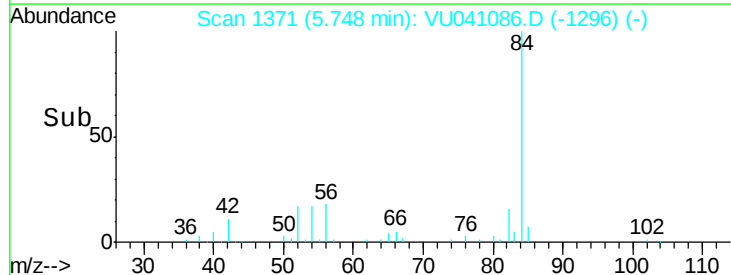
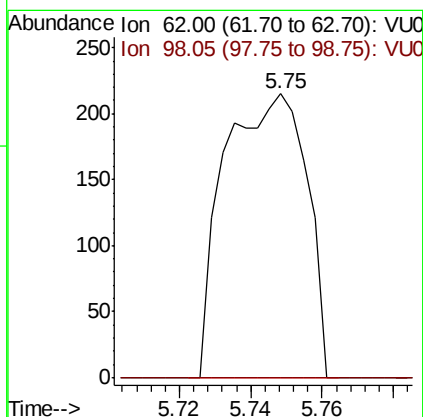
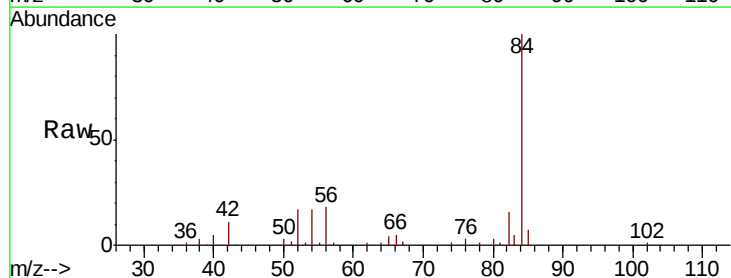
Instrument :
MSVOA_U
ClientSampleId :
C0AA3

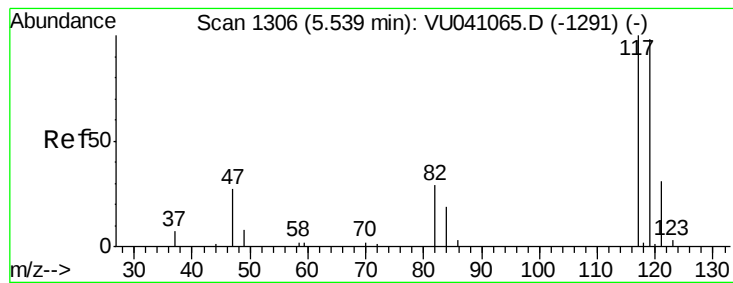
Tot Ion: 83 Resp: 2977
Ion Ratio Lower Upper
83 100
85 61.2 46.1 85.7



#27
1,2-Dichloroethane
Concen: 0.061 ug/L
RT: 5.75 min Scan# 1371
Delta R.T. -0.06 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

Tgt Ion: 62 Resp: 341
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#





#31

Carbon tetrachloride

Concen: 0.737 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

Instrument :

MSVOA_U

ClientSampleId :

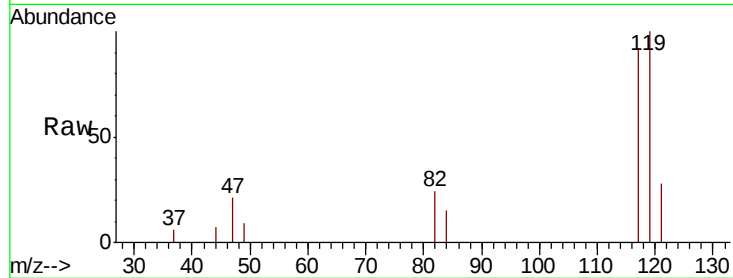
C0AA3

Tot Ion:117 Resp: 4273

Ion Ratio Lower Upper

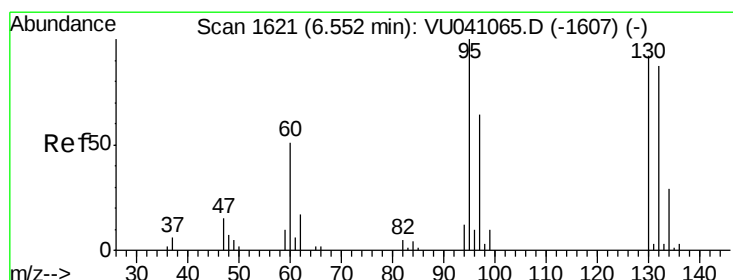
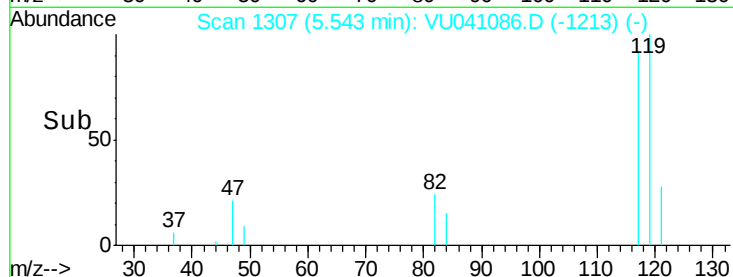
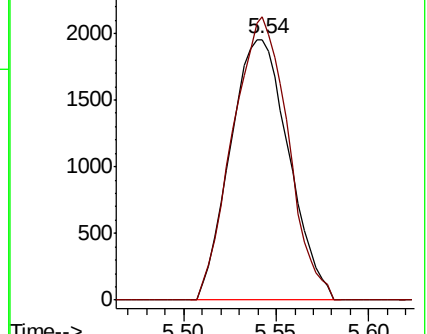
117 100

119 102.8 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 0.809 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

Tgt Ion: 95 Resp: 3295

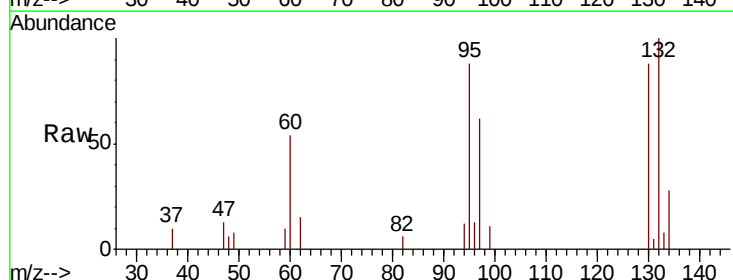
Ion Ratio Lower Upper

95 100

97 70.2 45.6 84.6

132 113.7 64.8 120.4

130 100.4 64.8 120.4

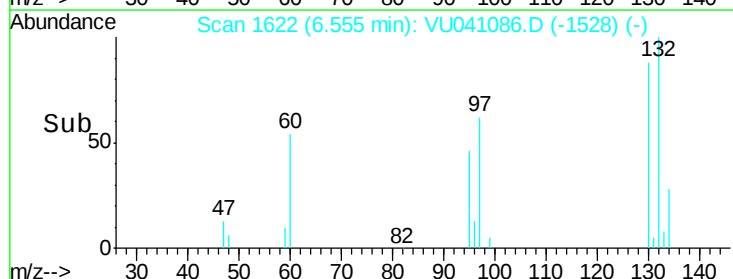
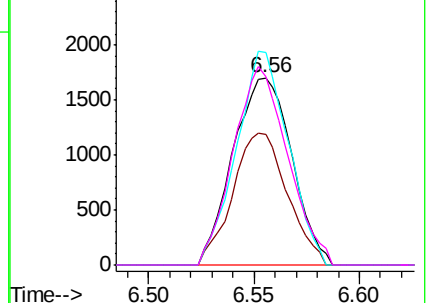


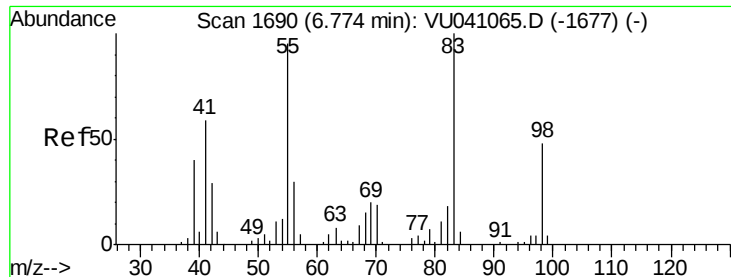
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

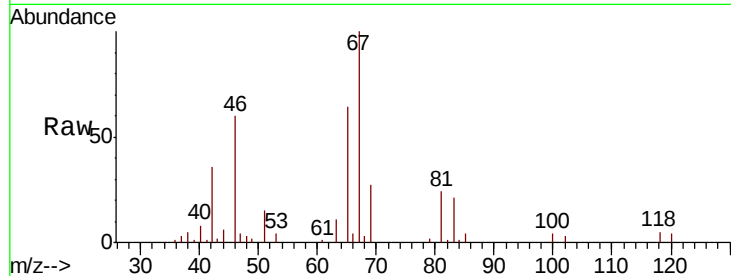




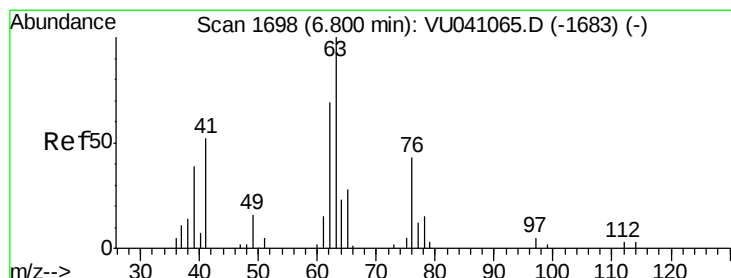
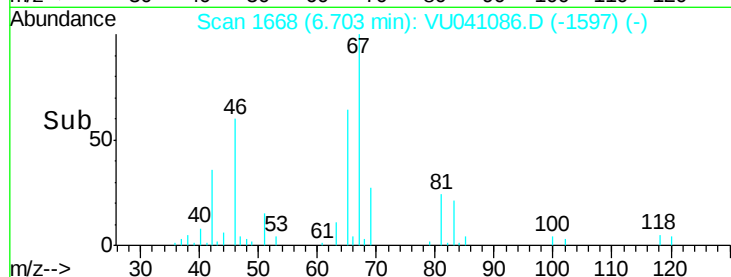
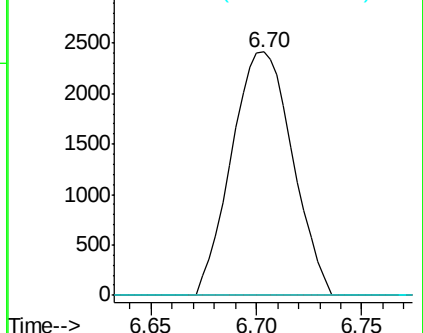
#35
Methvlcvclohexane
Concen: 0.795 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

Instrument :
MSVOA_U
ClientSampleId :
C0AA3

Tot Ion: 83 Resp: 4832
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 3.6 36.6 55.0#

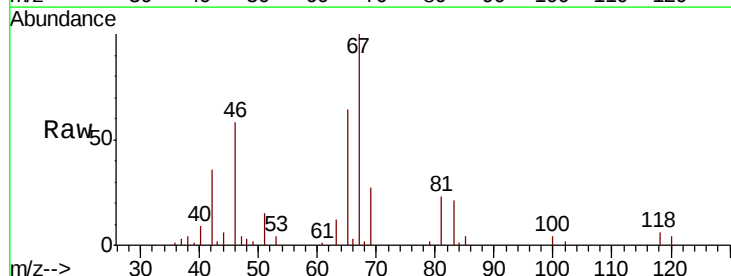


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

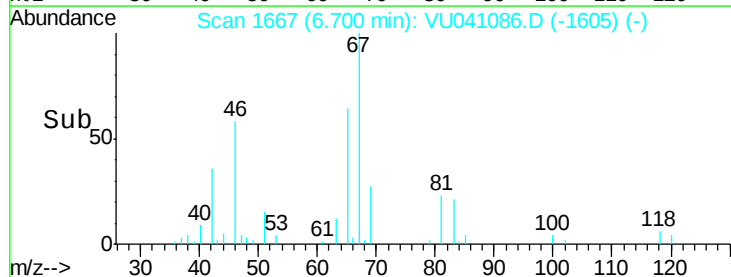
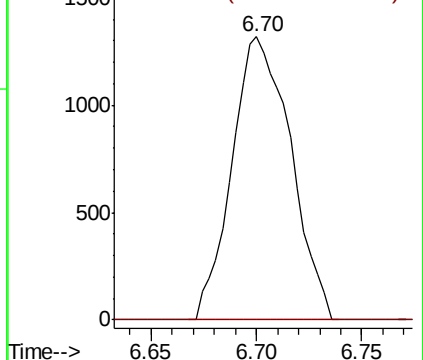


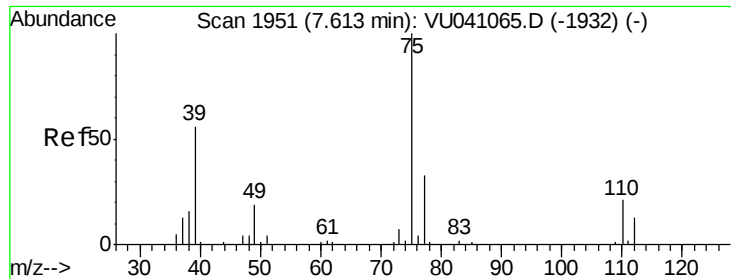
#37
1,2-Dichloropropane
Concen: 0.589 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

Tgt Ion: 63 Resp: 2553
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



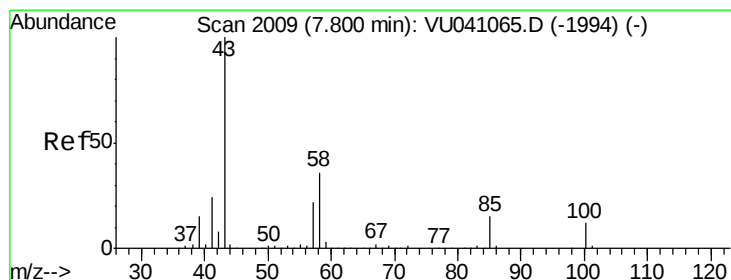
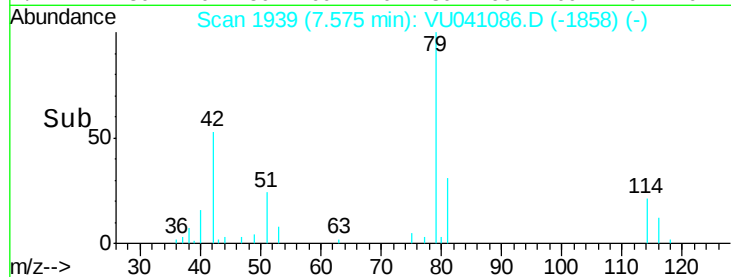
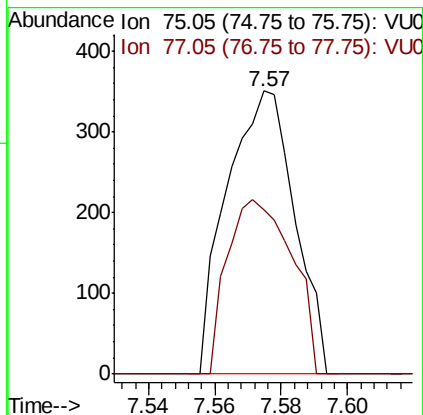
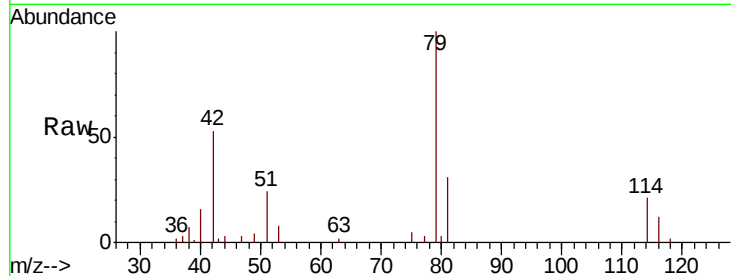


#39

cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041086.D
 Acq: 03 Nov 2020 18:32

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA3

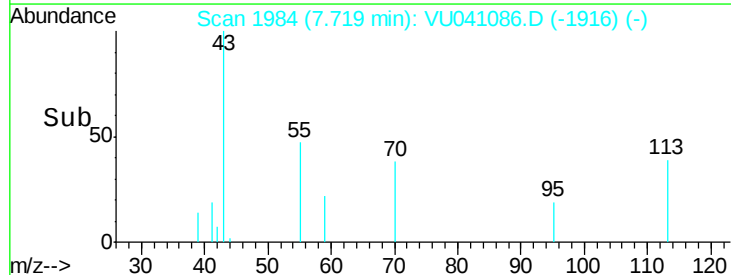
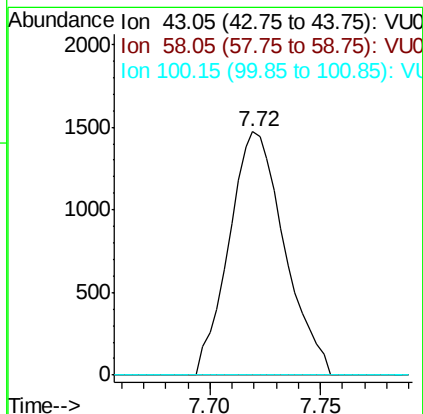
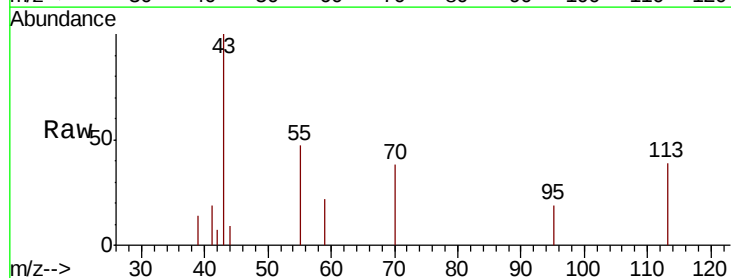
Tot Ion: 75 Resp: 499
 Ion Ratio Lower Upper
 75 100
 77 58.1 22.7 42.3#

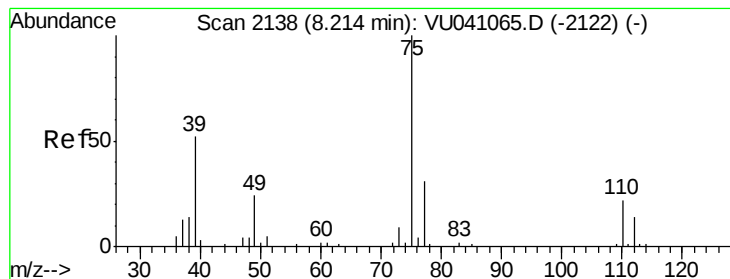


#40

4-Methyl-2-pentanone
 Concen: 0.743 ug/L
 RT: 7.72 min Scan# 1984
 Delta R.T. -0.08 min
 Lab File: VU041086.D
 Acq: 03 Nov 2020 18:32

Tgt Ion: 43 Resp: 2565
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 44.6#
 100 0.0 10.5 15.7#





#44

trans-1,3-Dichloropropene

Concen: 0.065 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

Instrument :

MSVOA_U

ClientSampleId :

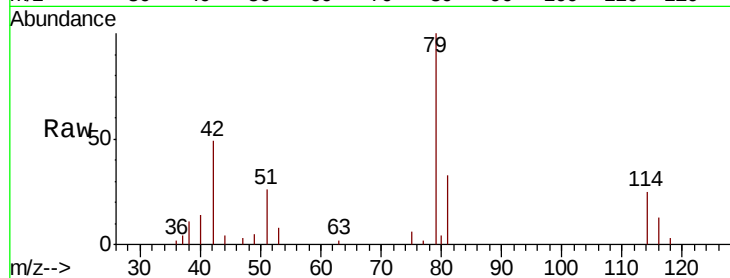
C0AA3

Tot Ion: 75 Resp: 363

Ion Ratio Lower Upper

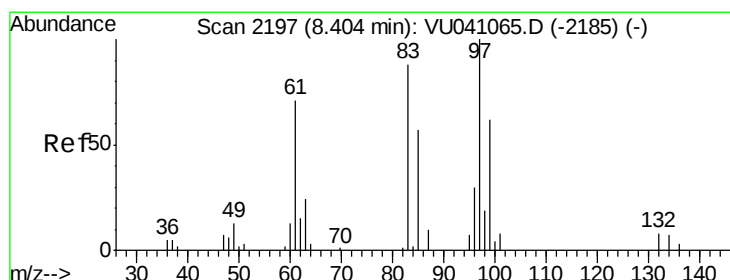
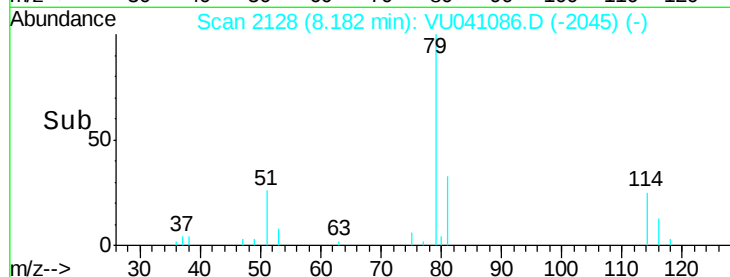
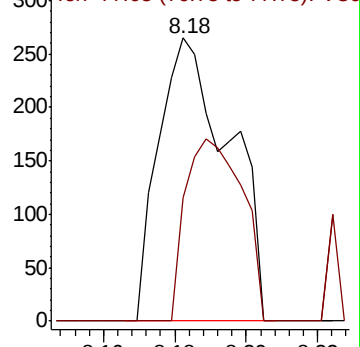
75 100

77 43.4 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#45

1,1,2-Trichloroethane

Concen: 0.210 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

Tgt Ion: 97 Resp: 678

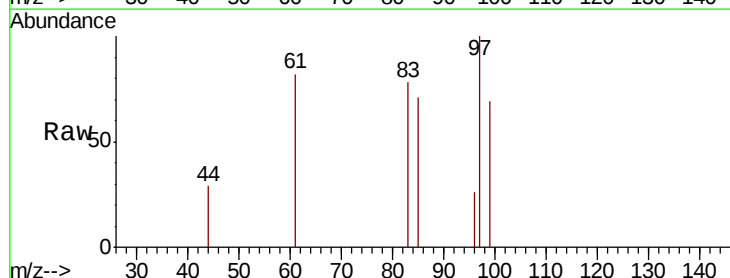
Ion Ratio Lower Upper

97 100

99 69.2 45.8 85.2

83 78.1 67.9 126.1

85 70.6 42.8 79.6

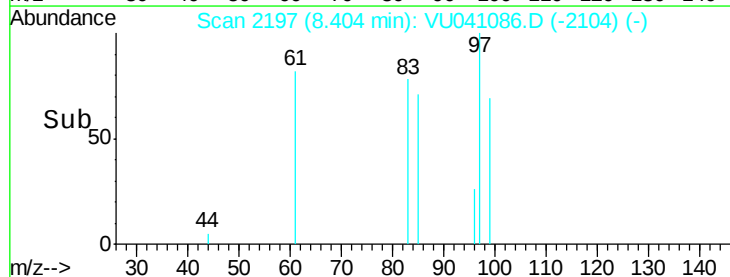
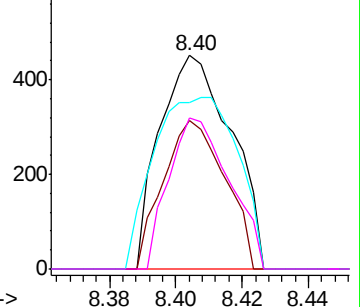


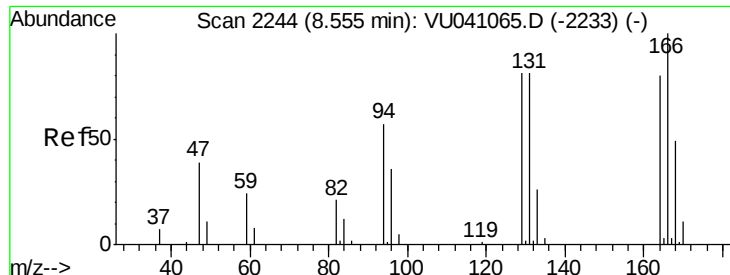
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

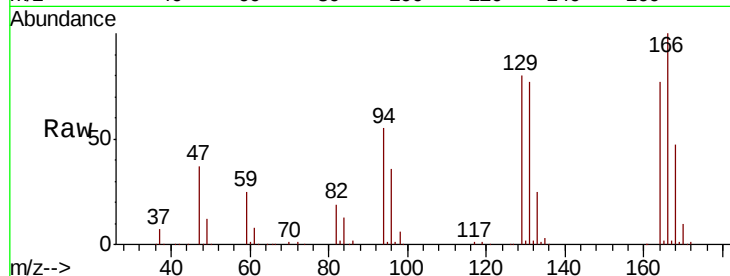




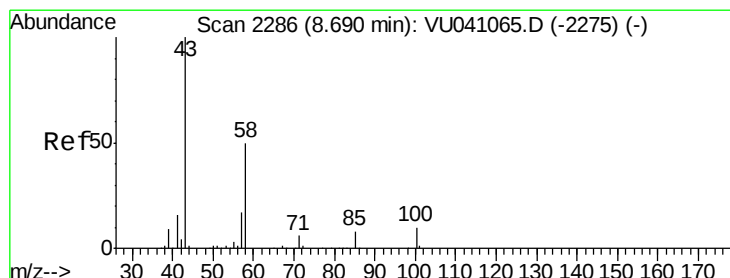
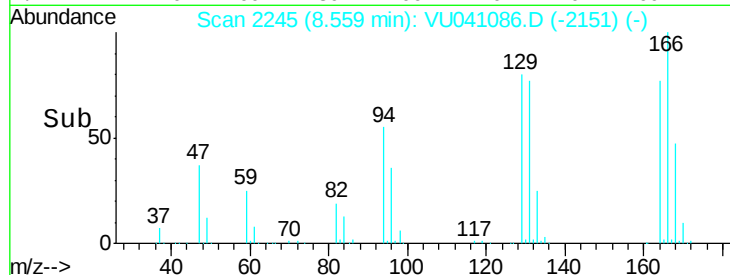
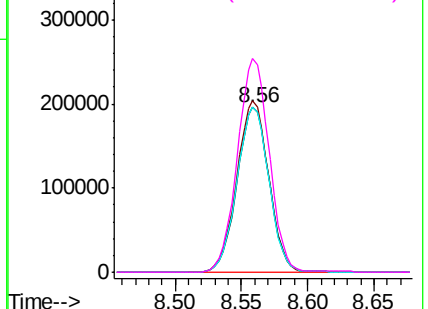
#47
Tetrachloroethene
Concen: 110.043 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

Instrument :
MSVOA_U
ClientSampleId :
C0AA3

Tot Ion:164	Resp:	329602
Ion	Ratio	Lower Upper
164	100	
129	104.3	70.3 130.7
131	100.5	70.8 131.4
166	129.7	92.0 170.8

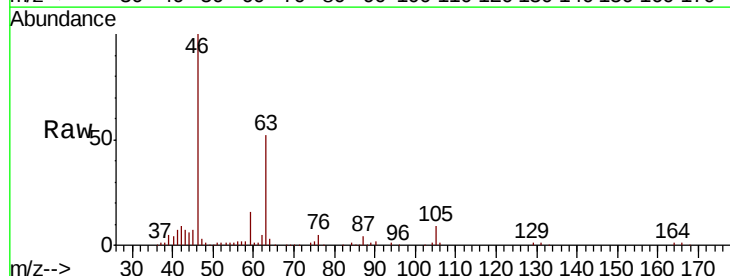


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

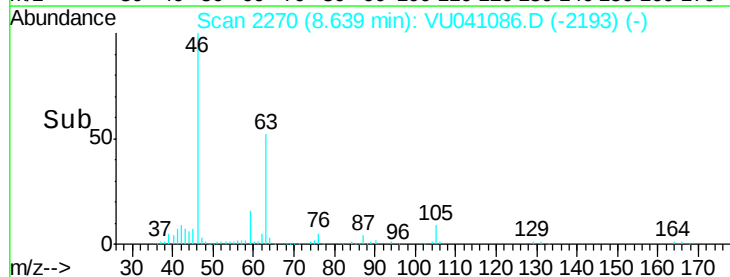
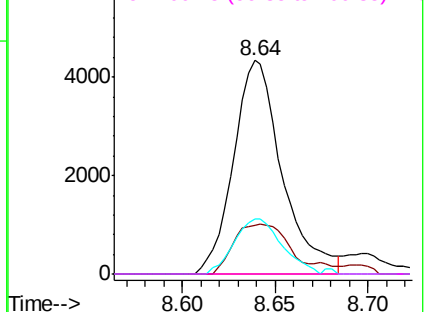


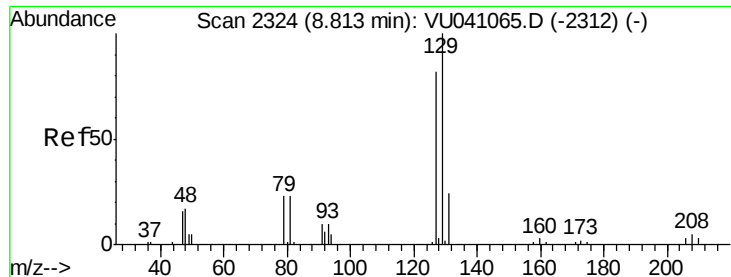
#48
2-Hexanone
Concen: 3.039 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041086.D
Acq: 03 Nov 2020 18:32

Tgt Ion: 43	Resp:	7901
Ion	Ratio	Lower Upper
43	100	
58	25.6	41.4 62.2#
57	25.4	14.6 21.8#
100	0.0	8.3 12.5#



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: 90.096 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

Instrument :

MSVOA_U

ClientSampleId :

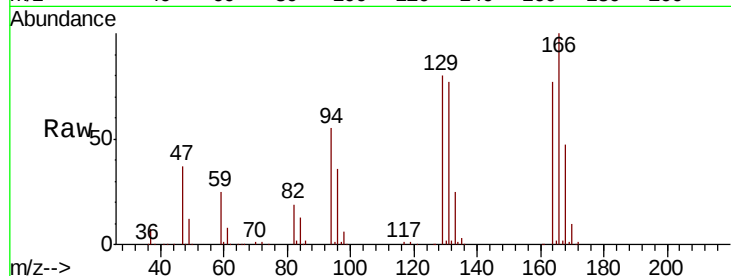
C0AA3

Tot Ion:129 Resp: 337334

Ion Ratio Lower Upper

129 100

127 0.1 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

200000

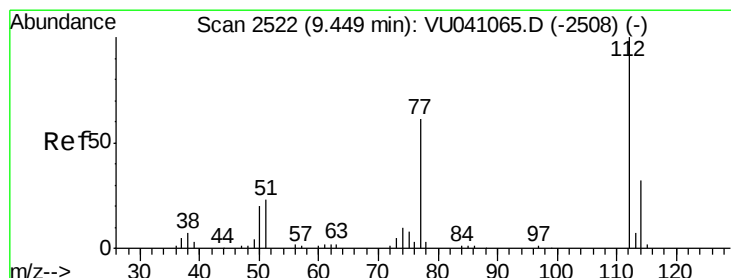
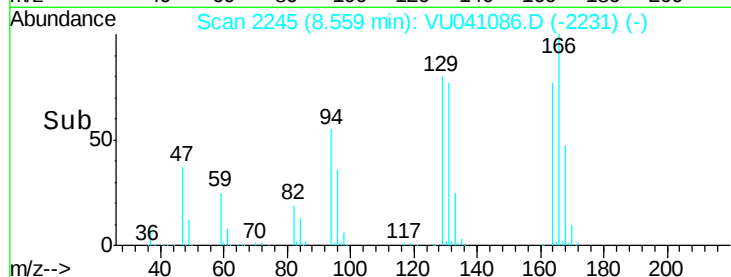
150000

100000

50000

0

Time-->



#51

Chlorobenzene

Concen: 0.080 ug/L

RT: 9.45 min Scan# 2521

Delta R.T. -0.00 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

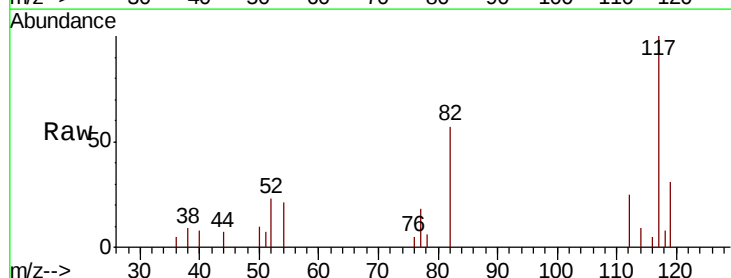
Tgt Ion:112 Resp: 826

Ion Ratio Lower Upper

112 100

114 36.8 22.4 41.6

77 69.7 51.2 76.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0

9.45

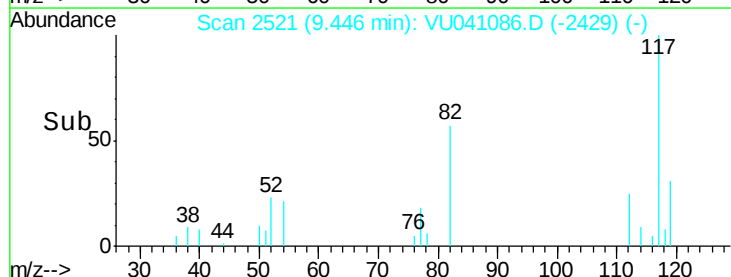
600

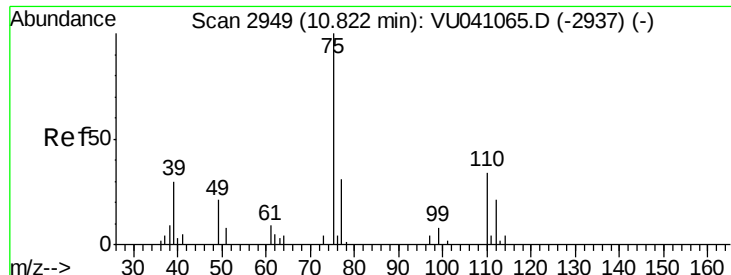
400

200

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 1.015 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041086.D

Acq: 03 Nov 2020 18:32

Instrument :

MSVOA_U

ClientSampleId :

C0AA3

Tot Ion: 75 Resp: 3275

Ion Ratio Lower Upper

75 100

77 35.2 25.7 38.5

