

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041894.D
 Acq On : 08 Jan 2021 10:50
 Operator : SY/MD
 Sample : M1027-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:33:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	139285	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	136706	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	56081	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	39936	3.67	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.40%
7) Chloroethane-d5	1.92	69	44888	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.60%
11) 1,1-Dichloroethene-d2	2.57	63	65057	3.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.80%
20) 2-Butanone-d5	4.65	46	181602	58.06	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.12%
24) Chloroform-d	5.08	84	105358	5.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.00%
26) 1,2-Dichloroethane-d4	5.71	65	57418	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.60%
32) Benzene-d6	5.74	84	189476	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	6.70	67	62974	5.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.60%
41) Toluene-d8	7.90	98	156215	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.40%
43) trans-1,3-Dichloropropene-	8.18	79	23356	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.64	63	147886	49.02	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.04%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	57440	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	57113	5.73	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.52	50	2104	0.184	ug/L	95
9) Trichlorofluoromethane	2.15	101	2508587	156.571	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	37982	3.964	ug/L	93
12) 1,1-Dichloroethene	2.59	96	4112	0.435	ug/L #	1
13) Acetone	2.65	43	1866	0.938	ug/L	57
16) Methylene chloride	3.06	84	1888	0.167	ug/L	87
19) 1,1-Dichloroethane	3.89	63	31390	1.718	ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	12190	1.129	ug/L	99
25) Chloroform	5.10	83	3223	0.175	ug/L	96
29) 1,1,1-Trichloroethane	5.33	97	5821	0.371	ug/L	98
31) Carbon tetrachloride	5.53	117	609	0.045	ug/L	89
34) Trichloroethene	6.55	95	73661	6.705	ug/L	95
35) Methylcyclohexane	6.70	83	15064	0.848	ug/L #	18
37) 1,2-Dichloropropane	6.70	63	6596	0.590	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1569	0.095	ug/L #	61
44) trans-1,3-Dichloropropene	8.18	75	887	0.060	ug/L	89
47) Tetrachloroethene	8.55	164	1668	0.217	ug/L	90

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jan 09 01:31:59 2021
Response via : Initial Calibration

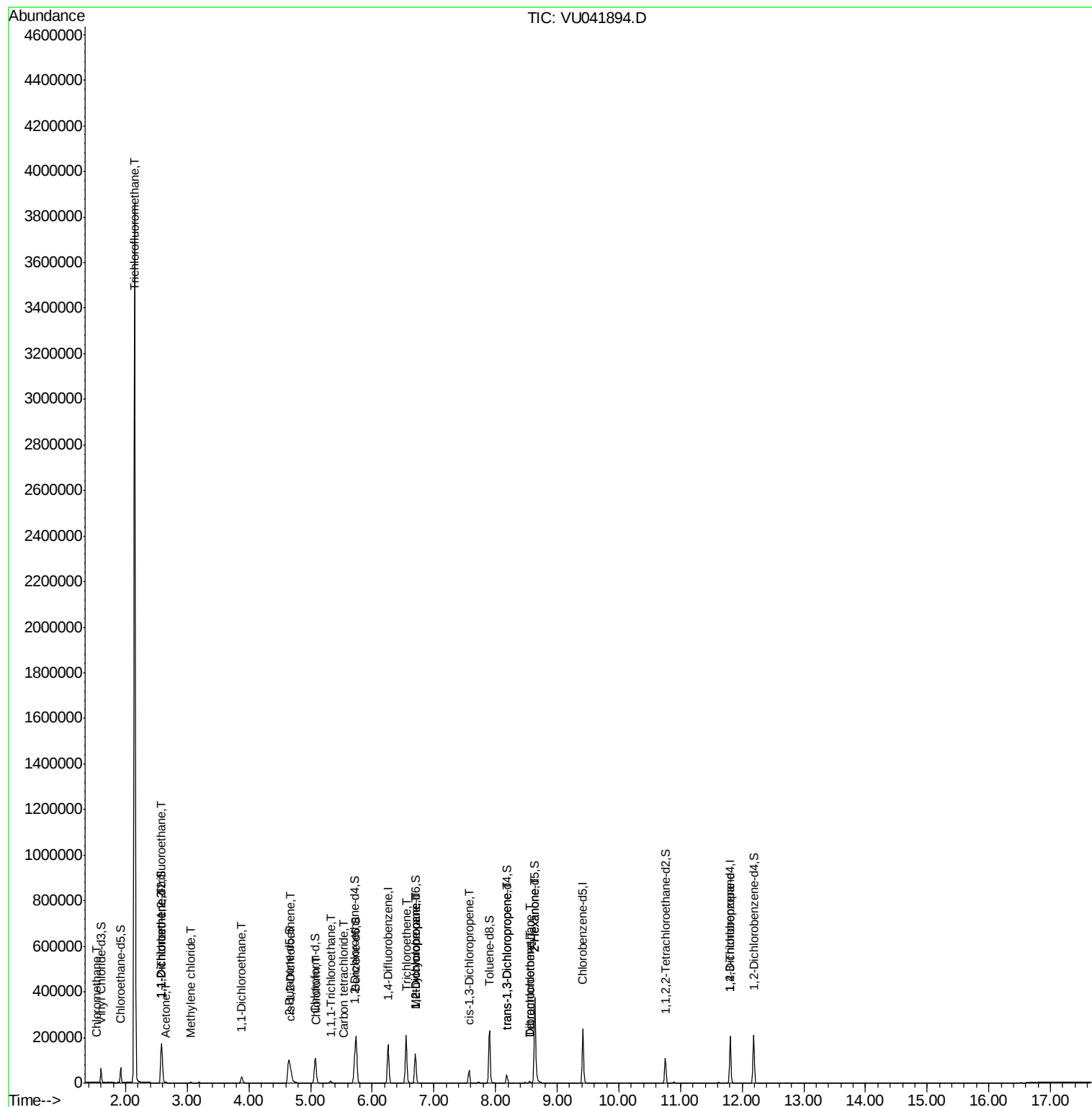
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	16411	2.834	ug/L #	68
49) Dibromochloromethane	8.55	129	1627	0.171	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6057	0.721	ug/L	95

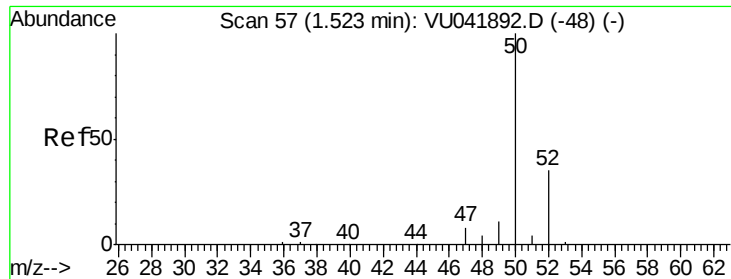
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.184 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

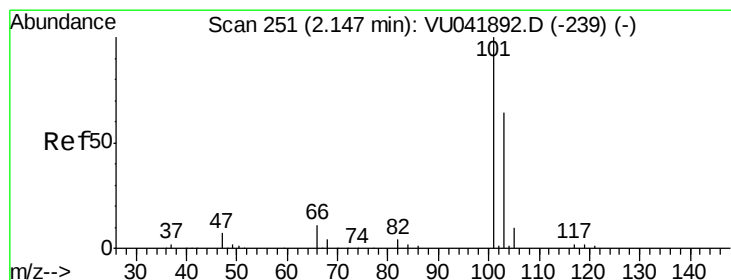
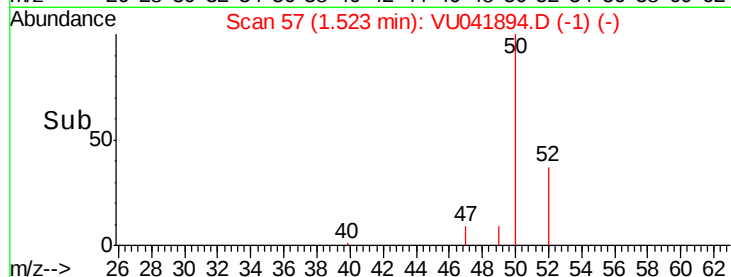
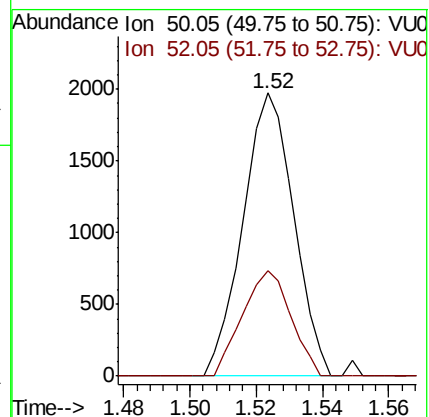
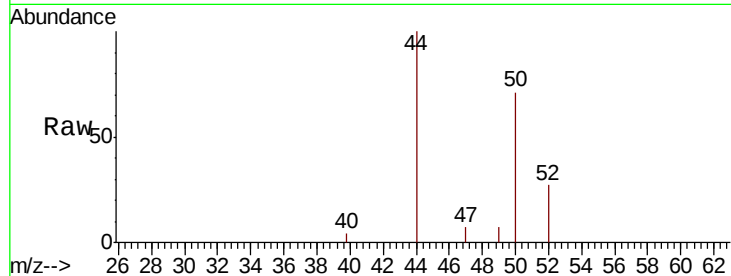
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 2104

Ion Ratio Lower Upper

50 100

52 37.4 24.1 44.8



#9

Trichlorofluoromethane

Concen: 156.571 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU041894.D

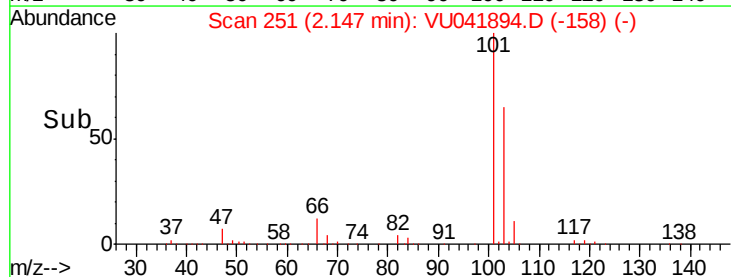
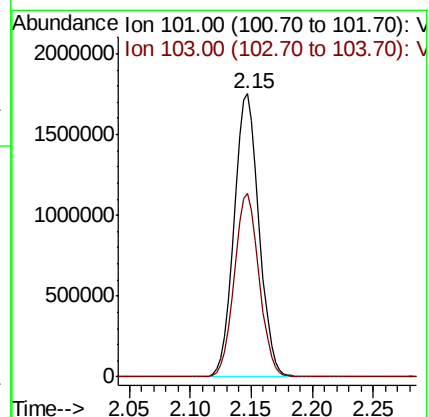
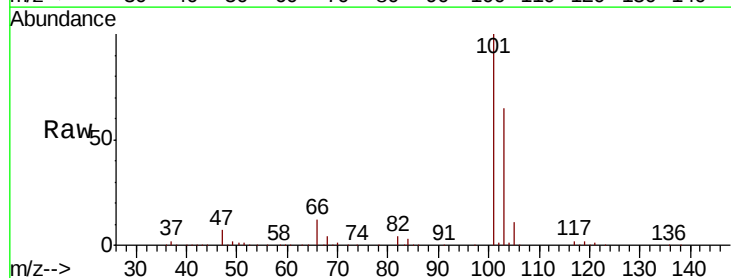
Acq: 08 Jan 2021 10:50

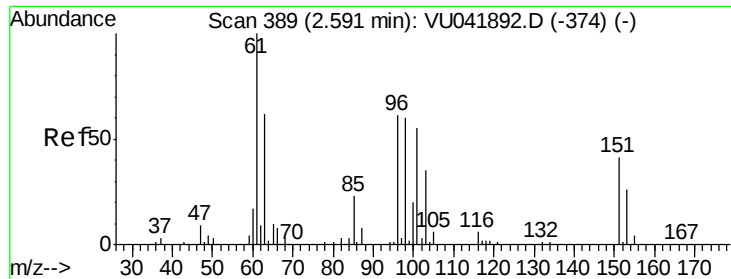
Tgt Ion:101 Resp: 2508587

Ion Ratio Lower Upper

101 100

103 64.7 51.1 76.7





#10

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

Concen: 3.964 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

Instrument :

MSVOA_U

ClientSampled :

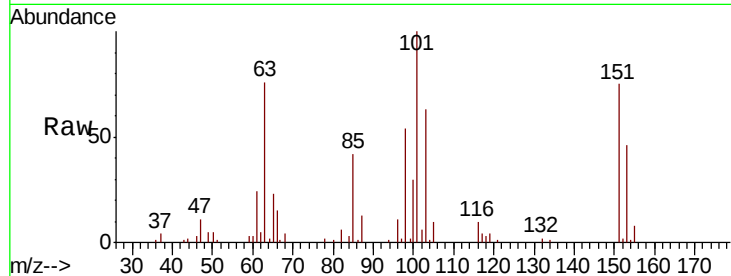
Tot Ion:101 Resp: 37982

Ion Ratio Lower Upper

101 100

85 43.4 33.6 50.4

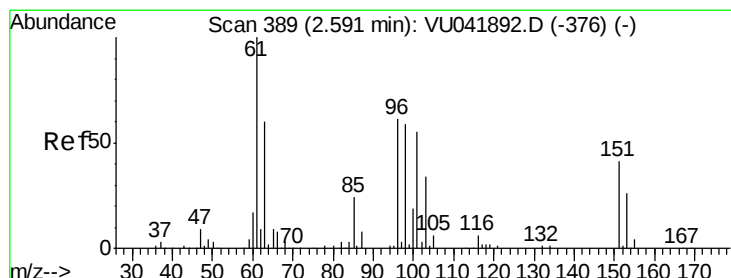
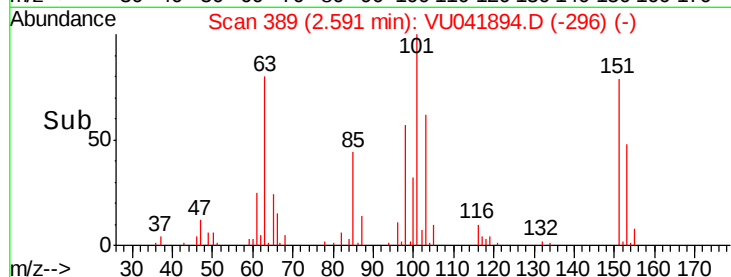
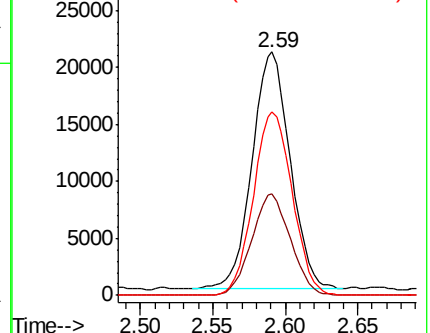
151 78.9 56.2 84.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.435 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

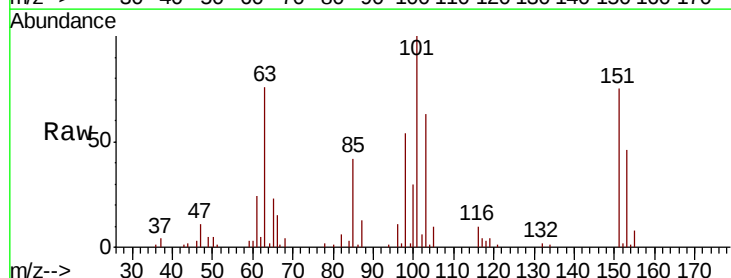
Tgt Ion: 96 Resp: 4112

Ion Ratio Lower Upper

96 100

61 217.5 123.8 230.0

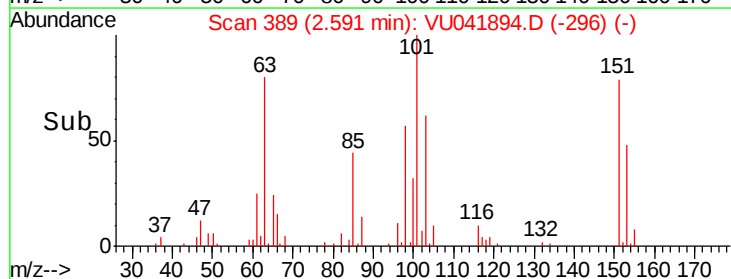
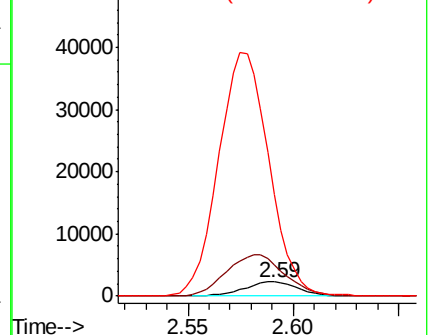
63 700.8 81.0 150.4#

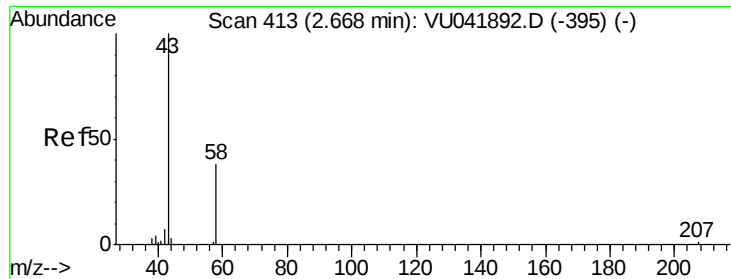


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.938 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.02 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

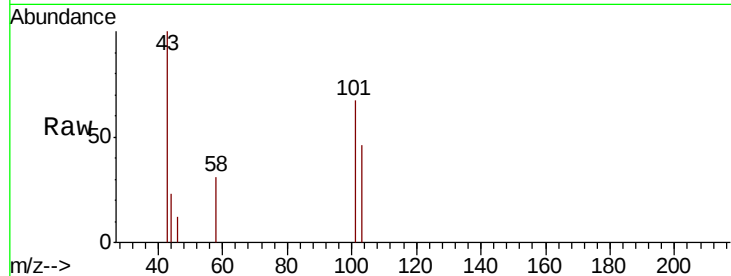
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 1866

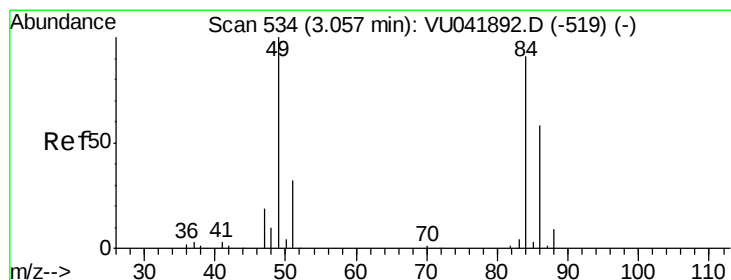
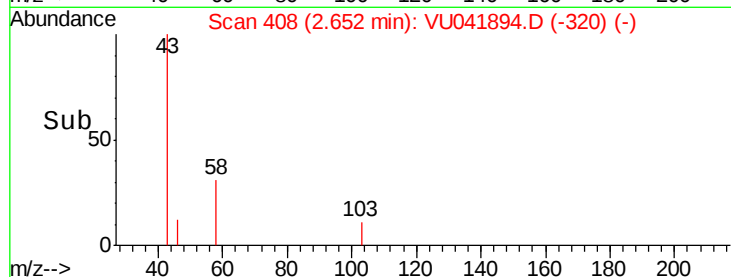
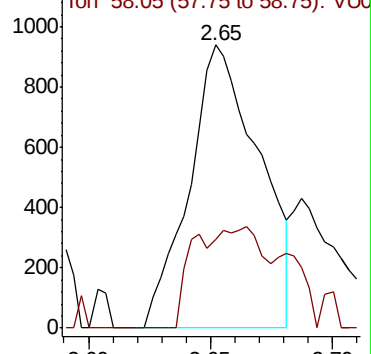
Ion Ratio Lower Upper

43 100

58 11.1 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041892.D (-395) (-)



#16

Methylene chloride

Concen: 0.167 ug/L

RT: 3.06 min Scan# 534

Delta R.T. 0.00 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

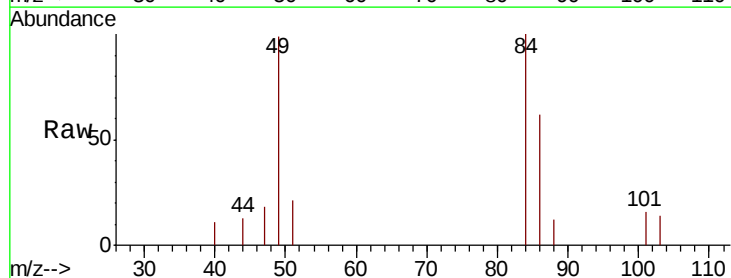
Tgt Ion: 84 Resp: 1888

Ion Ratio Lower Upper

84 100

86 61.9 45.1 83.7

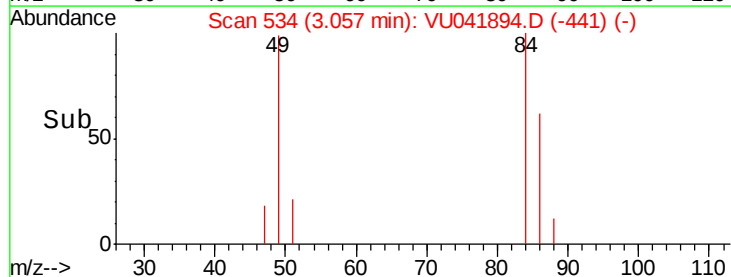
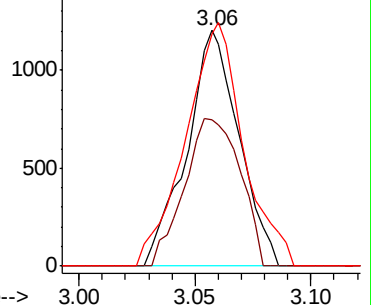
49 98.7 83.1 154.3

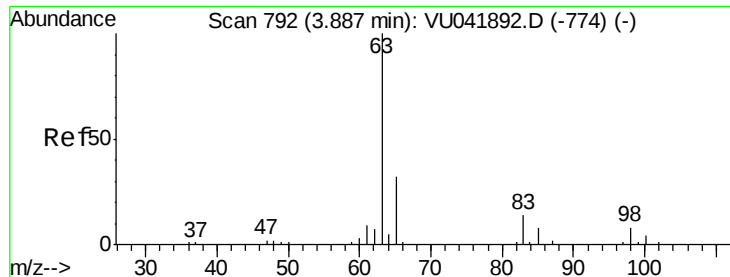


Abundance Ion 84.05 (83.75 to 84.75): VU041892.D (-519) (-)

Ion 86.00 (85.70 to 86.70): VU041892.D (-519) (-)

Ion 49.10 (48.80 to 49.80): VU041892.D (-519) (-)





#19

1,1-Dichloroethane

Concen: 1.718 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.00 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

Instrument :
MSVOA_U
ClientSampleId :

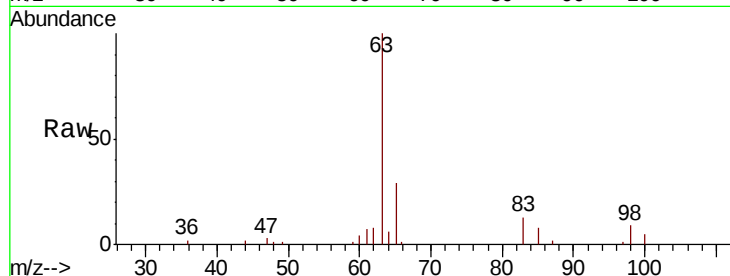
Tot Ion: 63 Resp: 31390

Ion Ratio Lower Upper

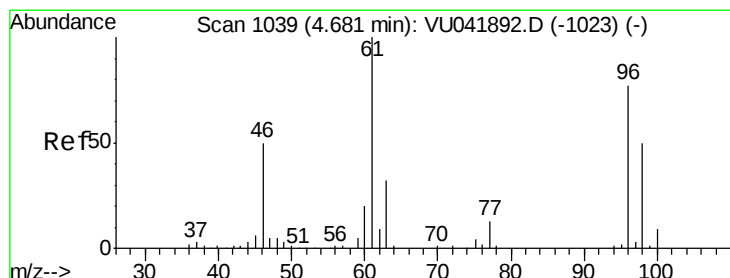
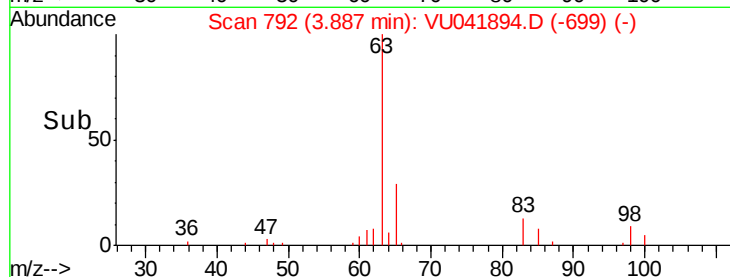
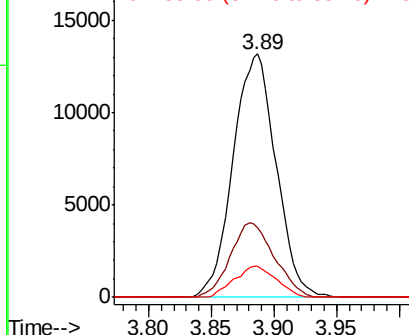
63 100

65 28.7 21.3 39.6

83 12.7 9.3 17.3



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: 1.129 ug/L

RT: 4.68 min Scan# 1039

Delta R.T. 0.00 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

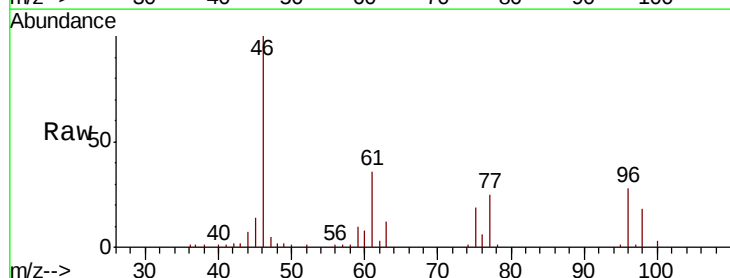
Tgt Ion: 96 Resp: 12190

Ion Ratio Lower Upper

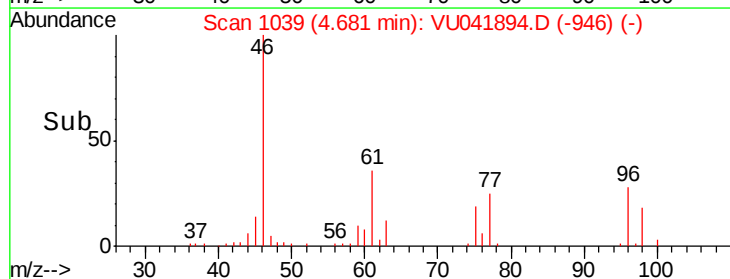
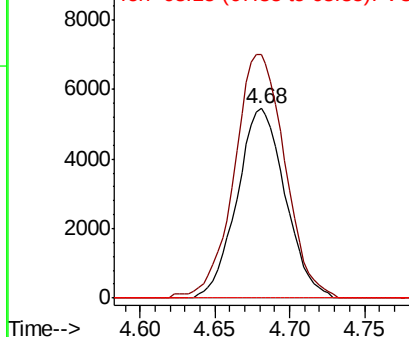
96 100

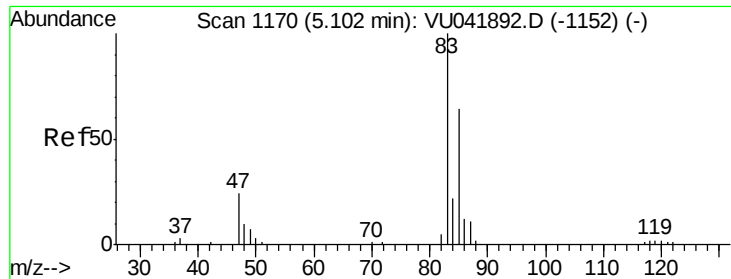
61 128.6 88.8 165.0

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

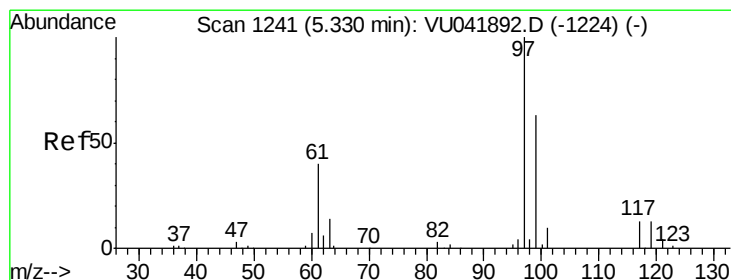
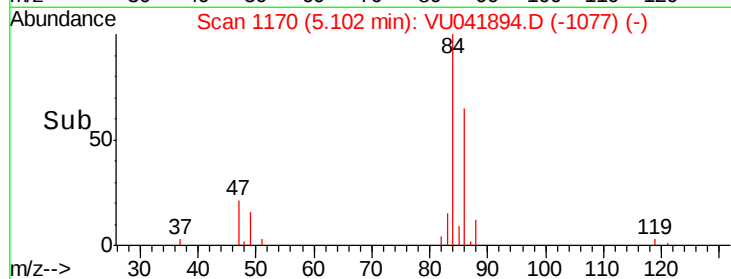
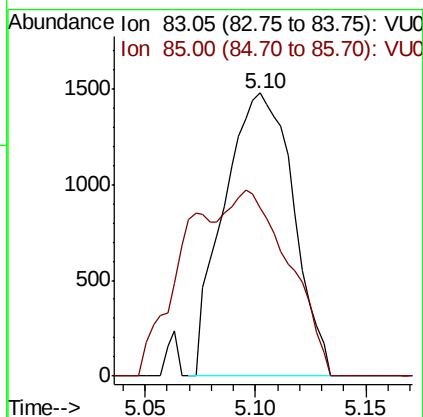
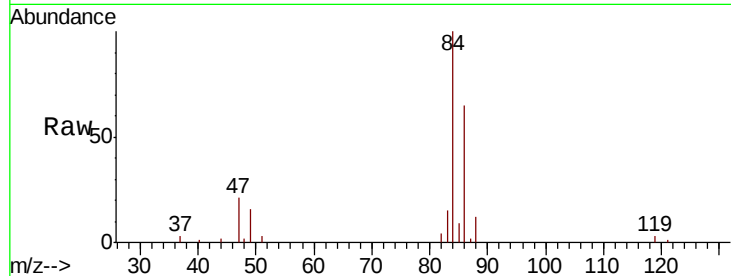




#25
Chloroform
Concen: 0.175 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. 0.00 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

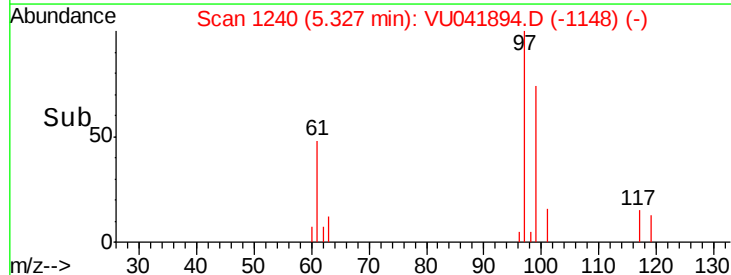
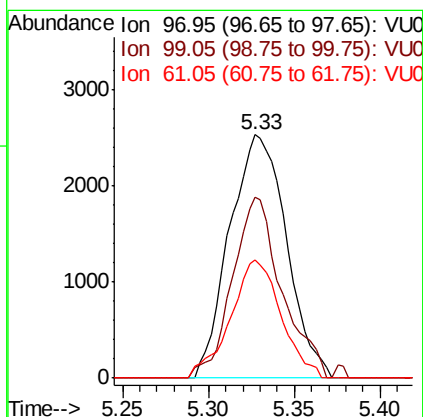
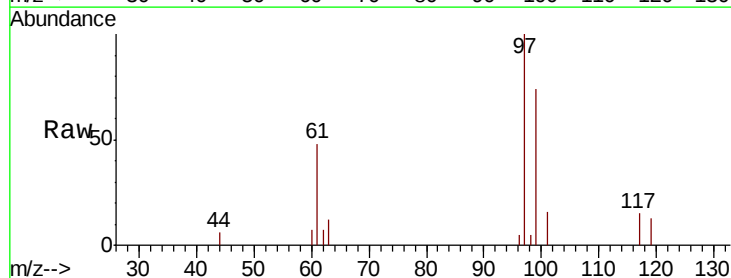
Instrument :
MSVOA_U
ClientSampled :

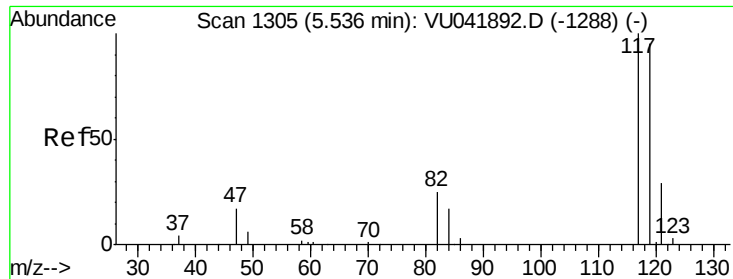
Tot Ion: 83 Resp: 3223
Ion Ratio Lower Upper
83 100
85 59.6 44.2 82.0



#29
1,1,1-Trichloroethane
Concen: 0.371 ug/L
RT: 5.33 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

Tgt Ion: 97 Resp: 5821
Ion Ratio Lower Upper
97 100
99 64.6 51.3 76.9
61 43.0 36.5 54.7

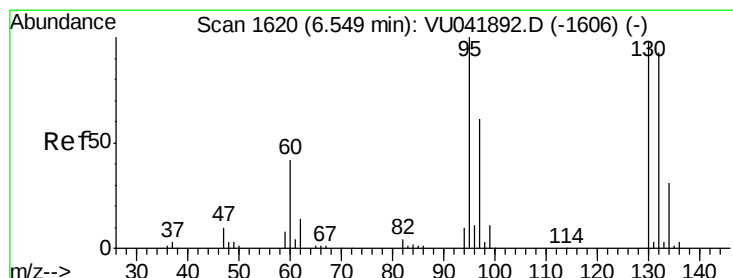
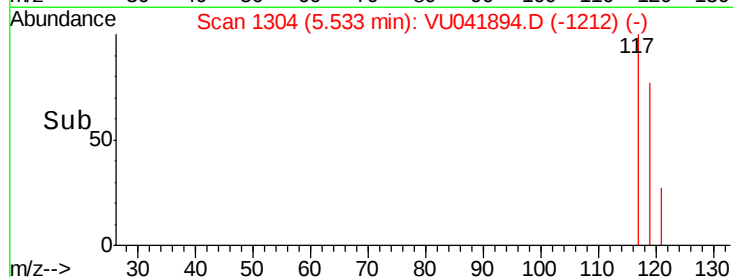
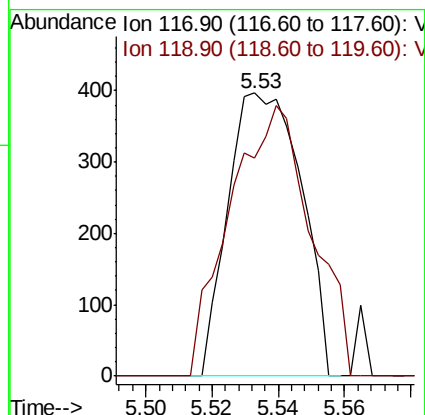
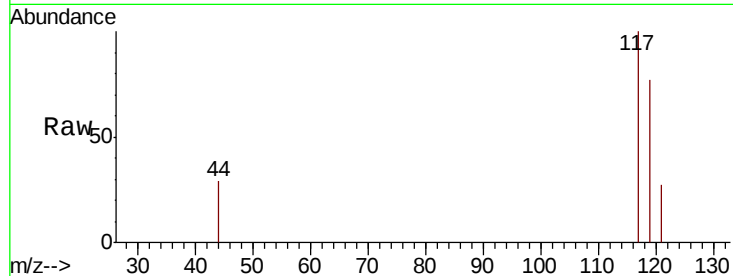




#31
Carbon tetrachloride
Concen: 0.045 ug/L
RT: 5.53 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

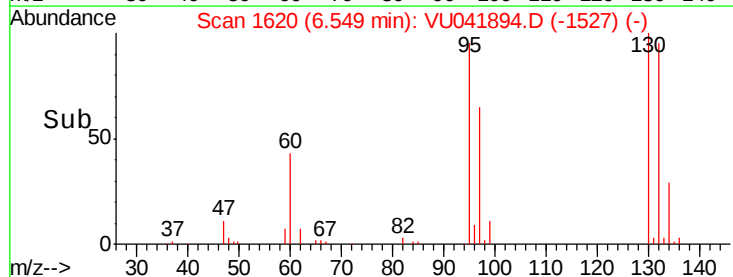
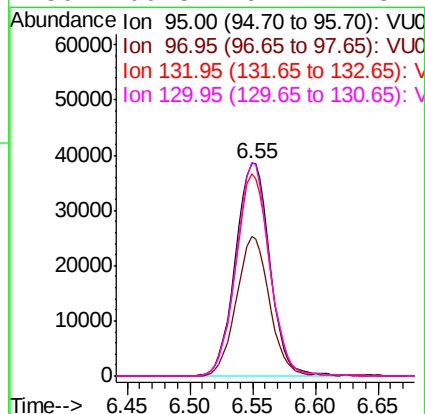
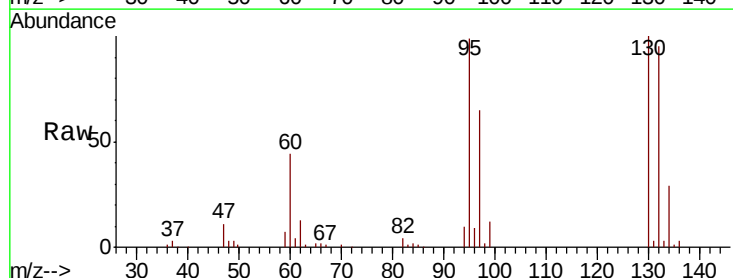
Instrument :
MSVOA_U
ClientSampleId :

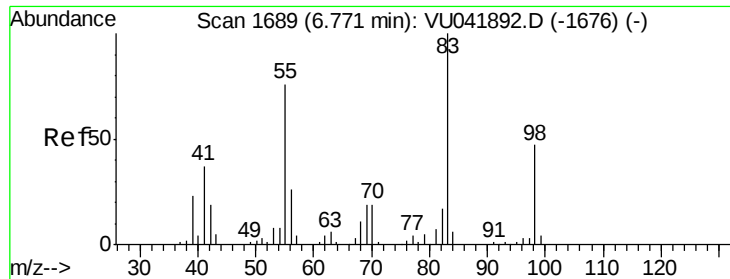
Tot Ion:117 Resp: 609
Ion Ratio Lower Upper
117 100
119 105.7 76.2 114.2



#34
Trichloroethene
Concen: 6.705 ug/L
RT: 6.55 min Scan# 1620
Delta R.T. 0.00 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

Tgt Ion: 95 Resp: 73661
Ion Ratio Lower Upper
95 100
97 65.8 43.9 81.5
132 95.4 63.1 117.3
130 100.5 67.4 125.2

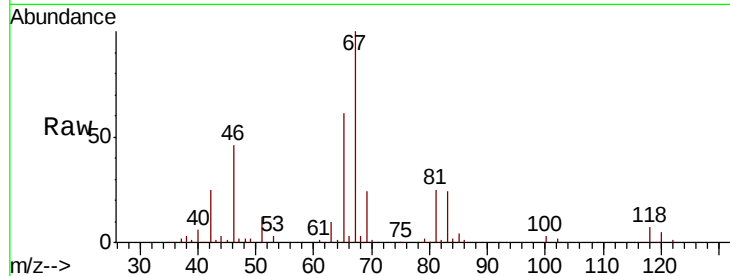




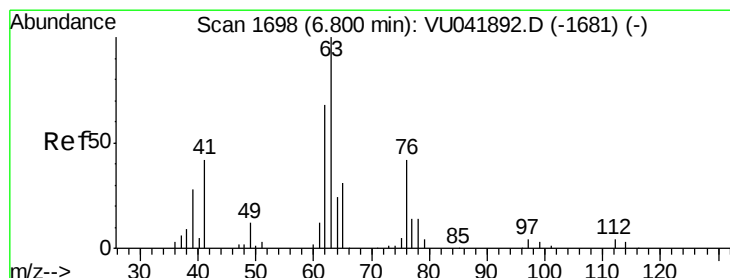
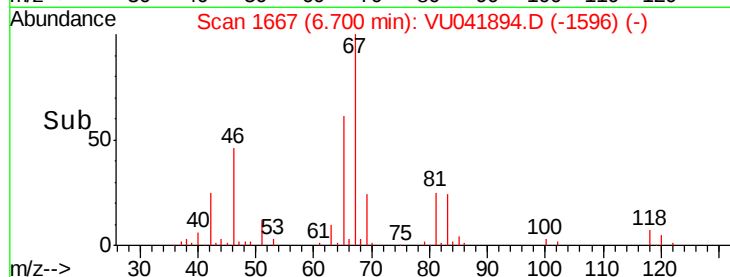
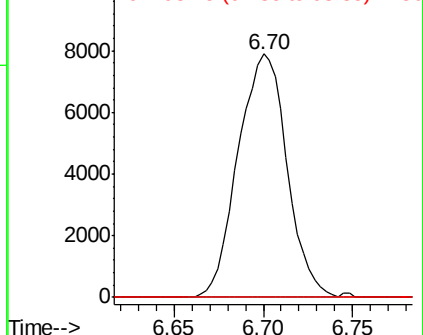
#35
Methvlcvclohexane
Concen: 0.848 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 15064
Ion Ratio Lower Upper
83 100
55 0.0 61.2 91.8#
98 0.0 36.6 54.8#

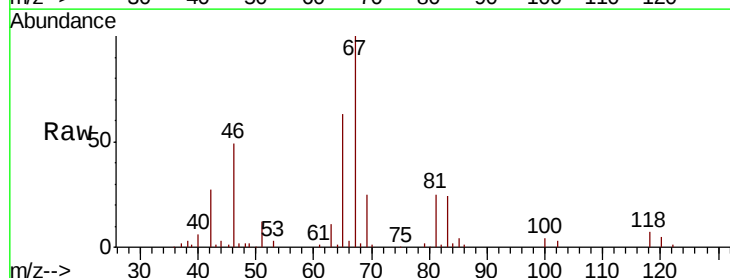


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

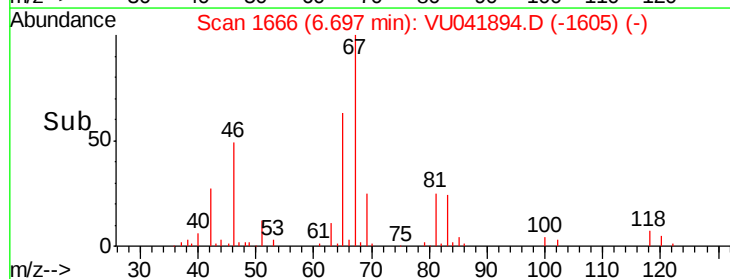
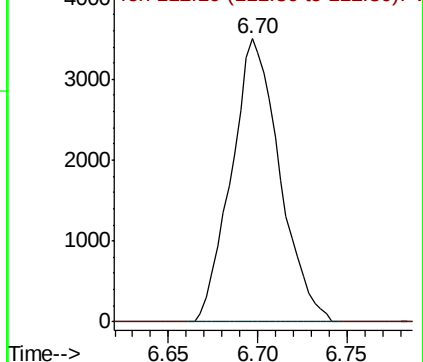


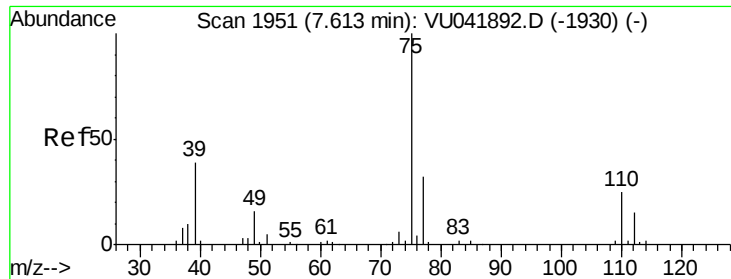
#37
1,2-Dichloropropane
Concen: 0.590 ug/L
RT: 6.70 min Scan# 1666
Delta R.T. -0.10 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

Tgt Ion: 63 Resp: 6596
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

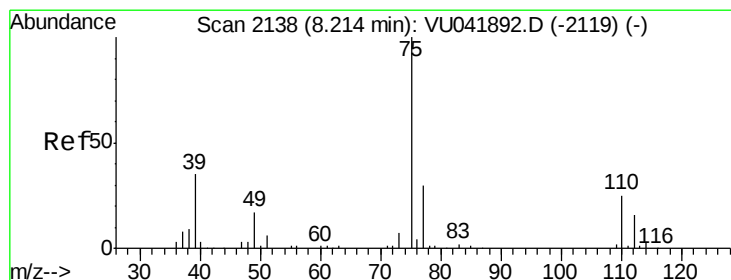
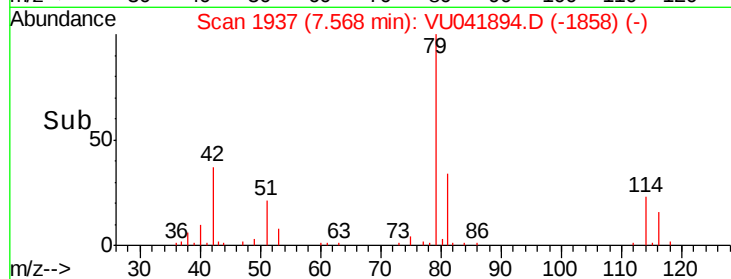
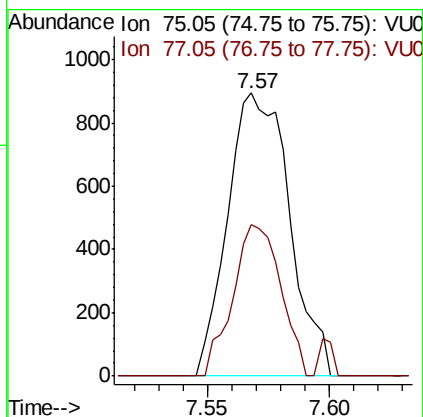
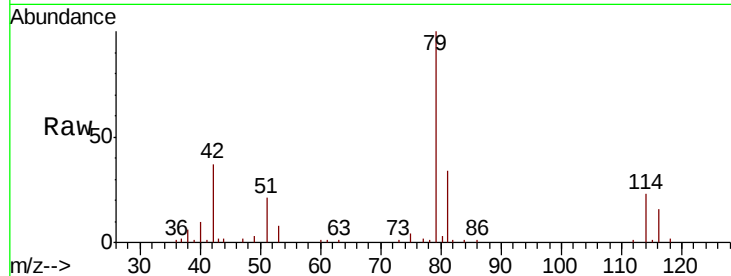




#39
 cis-1,3-Dichloropropene
 Concen: 0.095 ug/L
 RT: 7.57 min Scan# 1937
 Delta R.T. -0.04 min
 Lab File: VU041894.D
 Acq: 08 Jan 2021 10:50

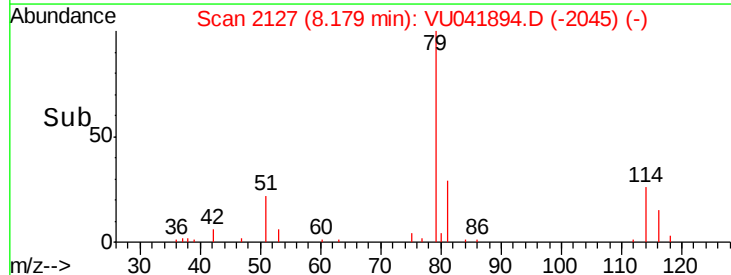
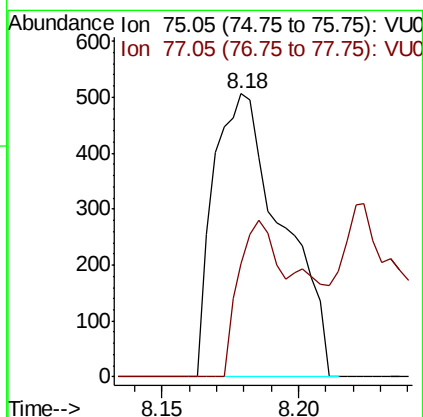
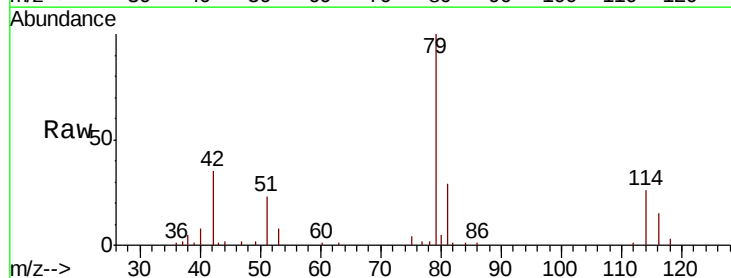
Instrument :
 MSVOA_U
 ClientSampleId :

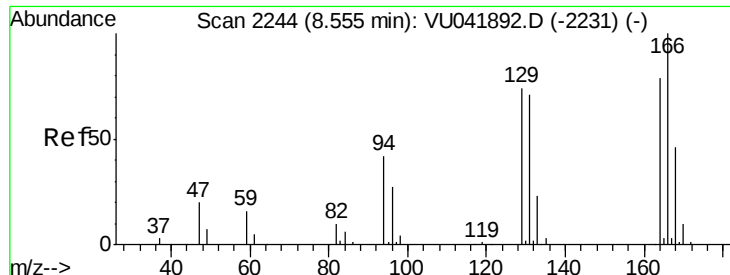
Tot Ion: 75 Resp: 1569
 Ion Ratio Lower Upper
 75 100
 77 53.6 22.3 41.3#



#44
 trans-1,3-Dichloropropene
 Concen: 0.060 ug/L
 RT: 8.18 min Scan# 2127
 Delta R.T. -0.04 min
 Lab File: VU041894.D
 Acq: 08 Jan 2021 10:50

Tgt Ion: 75 Resp: 887
 Ion Ratio Lower Upper
 75 100
 77 40.1 23.8 44.2

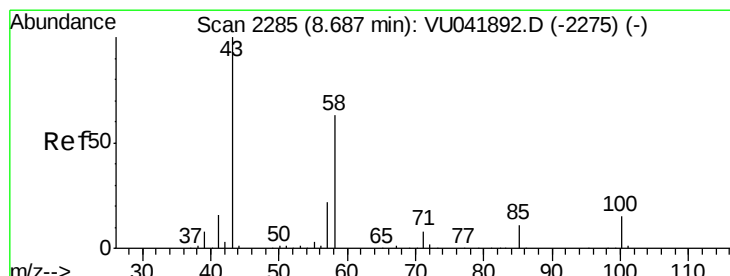
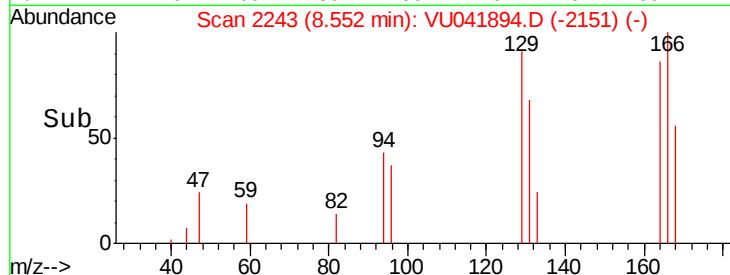
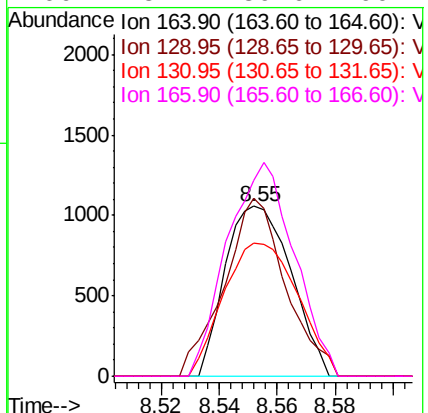
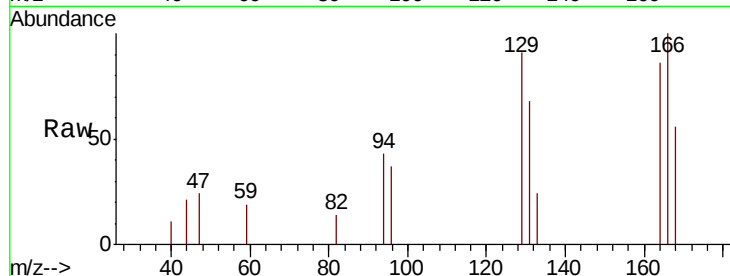




#47
Tetrachloroethene
Concen: 0.217 ug/L
RT: 8.55 min Scan# 2243
Delta R.T. -0.00 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

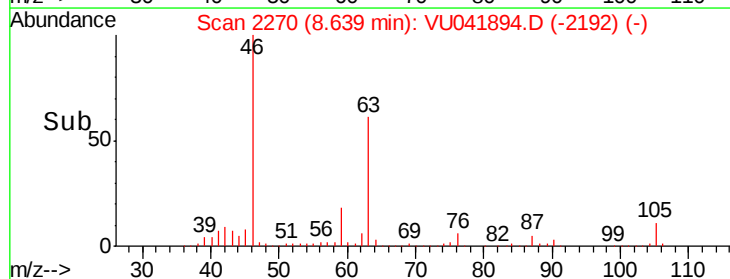
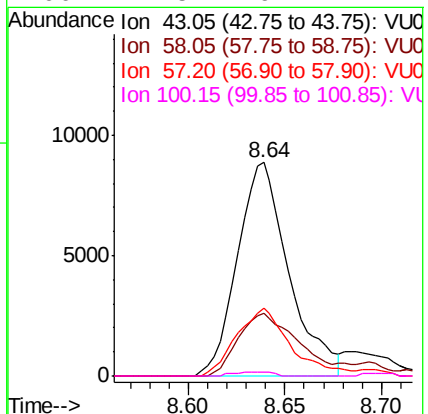
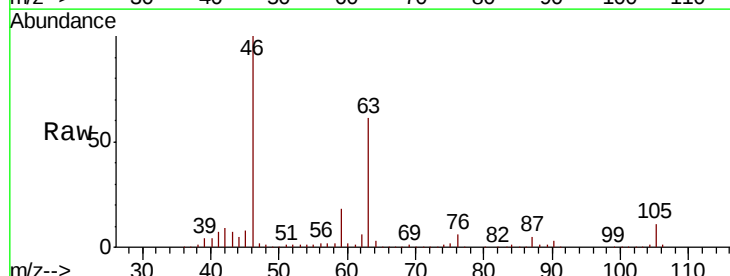
Instrument :
MSVOA_U
ClientSampleId :

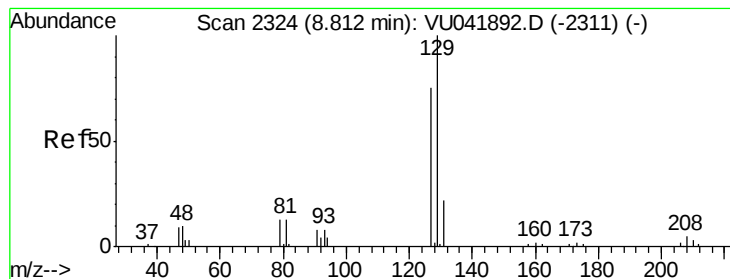
Tot Ion:164 Resp: 1668
Ion Ratio Lower Upper
164 100
129 105.2 72.2 134.0
131 78.5 66.9 124.3
166 115.7 89.6 166.4



#48
2-Hexanone
Concen: 2.834 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041894.D
Acq: 08 Jan 2021 10:50

Tgt Ion: 43 Resp: 16411
Ion Ratio Lower Upper
43 100
58 33.2 47.9 71.9#
57 33.3 16.5 24.7#
100 1.5 9.4 14.2#





#49

Dibromochloromethane

Concen: 0.171 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.26 min

Lab File: VU041894.D

Acq: 08 Jan 2021 10:50

Instrument :

MSVOA_U

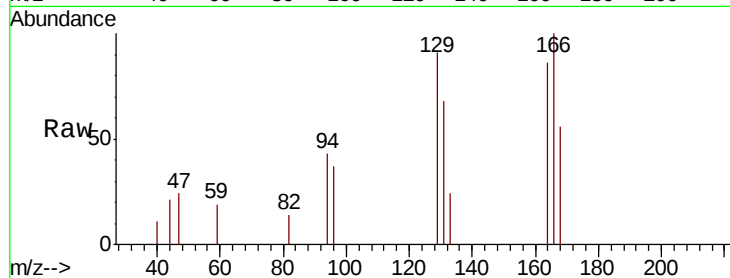
ClientSampleId :

Tot Ion:129 Resp: 1627

Ion Ratio Lower Upper

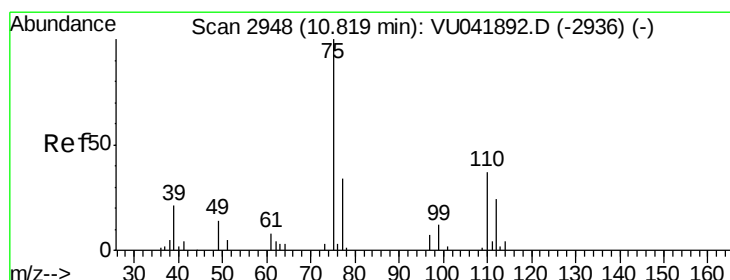
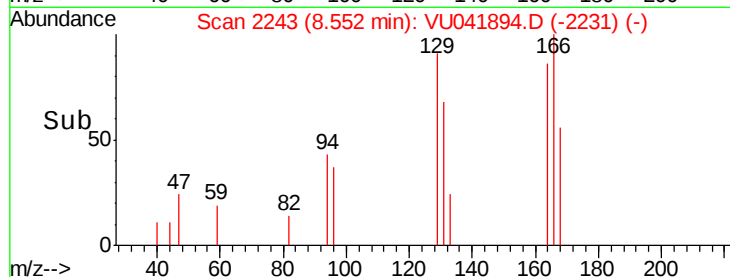
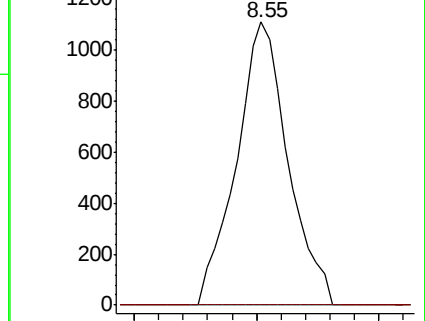
129 100

127 0.0 54.7 101.7#



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: 0.721 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041894.D

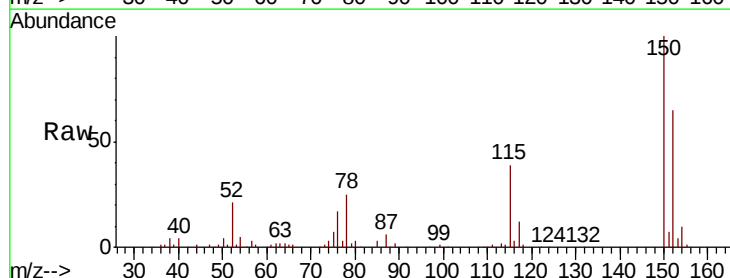
Acq: 08 Jan 2021 10:50

Tgt Ion: 75 Resp: 6057

Ion Ratio Lower Upper

75 100

77 35.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

