

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041888.D
 Acq On : 07 Jan 2021 21:28
 Operator : SY/MD
 Sample : M1026-19
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 05:02:30 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 08 04:58:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	132608	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	132548	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	56657	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	41286	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.92	69	42849	5.34	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.80%
11) 1,1-Dichloroethene-d2	2.58	63	65777	3.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.00%
20) 2-Butanone-d5	4.65	46	167132	56.12	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.24%
24) Chloroform-d	5.08	84	96266	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
26) 1,2-Dichloroethane-d4	5.72	65	56089	5.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.40%
32) Benzene-d6	5.74	84	183581	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	6.70	67	61911	5.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.00%
41) Toluene-d8	7.90	98	154288	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	8.18	79	23810	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.64	63	141609	48.41	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.82%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	54917	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	60012	5.96	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	119.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	6645	0.592	ug/L	96
3) Chloromethane	1.52	50	867	0.079	ug/L	84
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	957	0.105	ug/L #	31
12) 1,1-Dichloroethene	2.59	96	4521	0.503	ug/L #	1
13) Acetone	2.66	43	2891	1.526	ug/L	88
16) Methylene chloride	3.06	84	2274	0.212	ug/L	82
17) Methyl tert-butyl Ether	3.38	73	4135	0.172	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	1145	0.123	ug/L	80
19) 1,1-Dichloroethane	3.88	63	1458	0.084	ug/L #	88
22) cis-1,2-Dichloroethene	4.68	96	41450	4.031	ug/L	98
25) Chloroform	5.10	83	2949	0.168	ug/L	95
27) 1,2-Dichloroethane	5.81	62	1302	0.110	ug/L #	73
29) 1,1,1-Trichloroethane	5.33	97	3163	0.208	ug/L	96
33) Benzene	5.79	78	1514	0.036	ug/L	100
34) Trichloroethene	6.55	95	1947480	182.824	ug/L	96
35) Methylcyclohexane	6.70	83	14816	0.860	ug/L #	18
37) 1,2-Dichloropropane	6.70	63	6198	0.572	ug/L #	88

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jan 08 04:58:19 2021
Response via : Initial Calibration

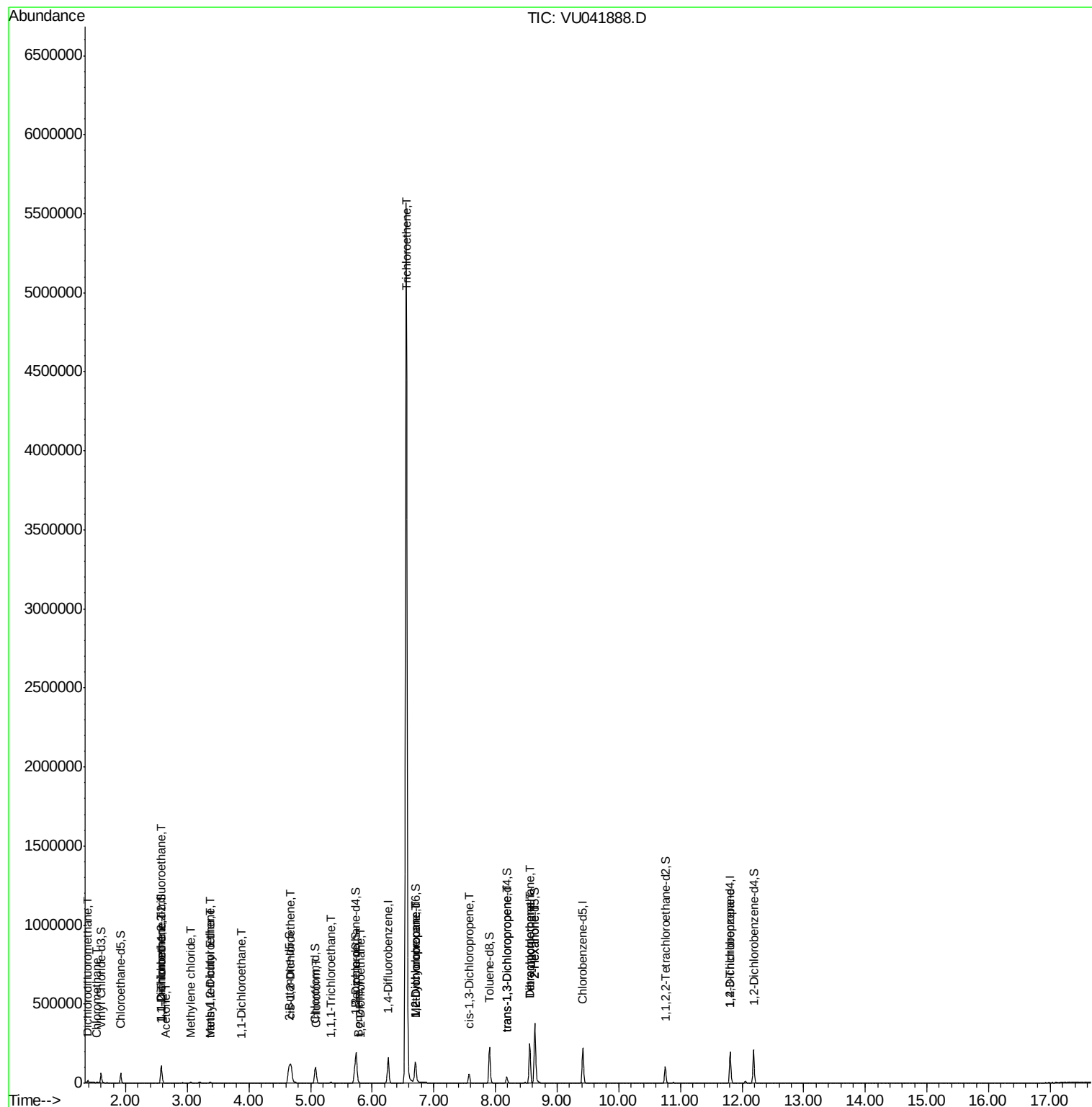
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	1341	0.083	ug/L #	38
44) trans-1,3-Dichloropropene	8.18	75	744	0.052	ug/L #	62
47) Tetrachloroethene	8.56	164	55740	7.475	ug/L	98
48) 2-Hexanone	8.64	43	15518	2.764	ug/L #	67
49) Dibromochloromethane	8.56	129	55377	6.012	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5819	0.715	ug/L	97

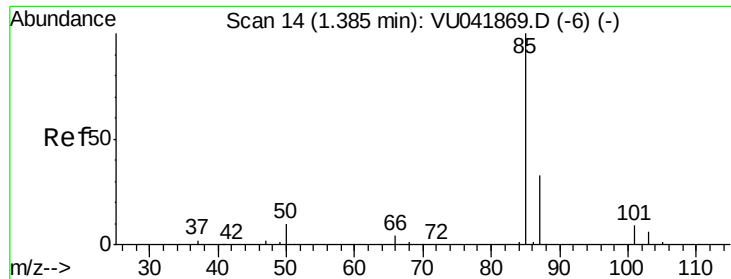
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.592 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041888.D

Acq: 07 Jan 2021 21:28

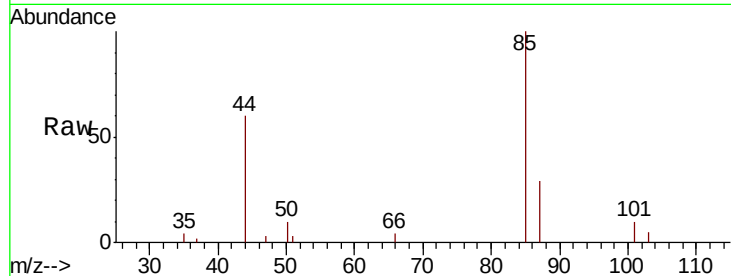
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 6645

Ion Ratio Lower Upper

85 100

87 30.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU041869.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VU041869.D (-6) (-)

1.39

8000

6000

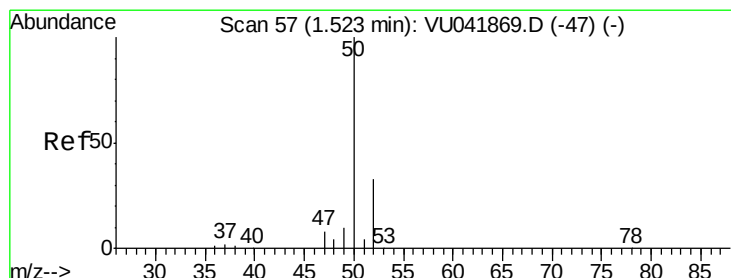
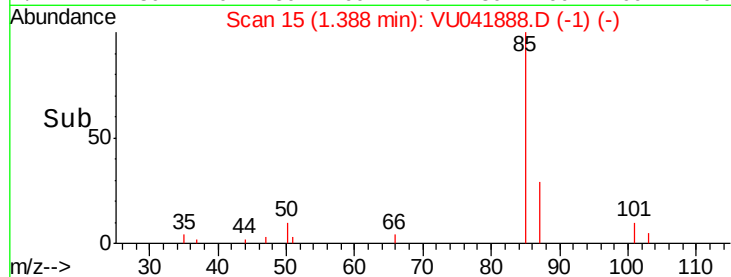
4000

2000

0

1.36 1.38 1.40 1.42

Time-->



#3

Chloromethane

Concen: 0.079 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041888.D

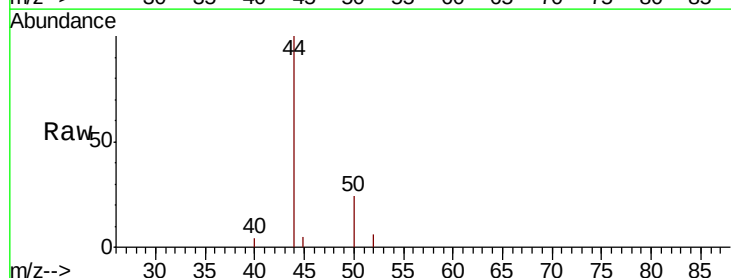
Acq: 07 Jan 2021 21:28

Tgt Ion: 50 Resp: 867

Ion Ratio Lower Upper

50 100

52 25.5 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041869.D (-47) (-)

Ion 52.05 (51.75 to 52.75): VU041869.D (-47) (-)

1.52

800

600

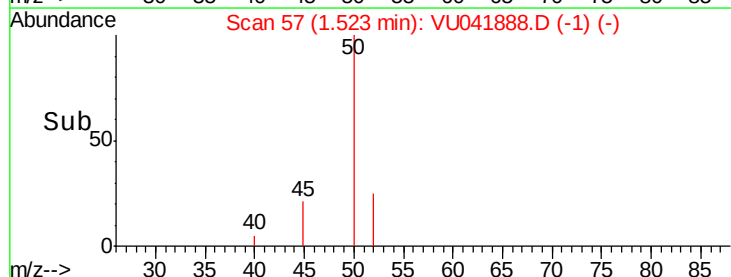
400

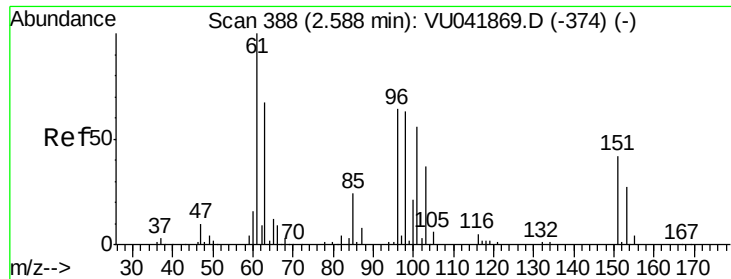
200

0

1.50 1.52 1.54

Time-->





#10

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

Concen: 0.105 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.01 min

Lab File: VU041888.D

Acq: 07 Jan 2021 21:28

Instrument :

MSVOA_U

ClientSampleId :

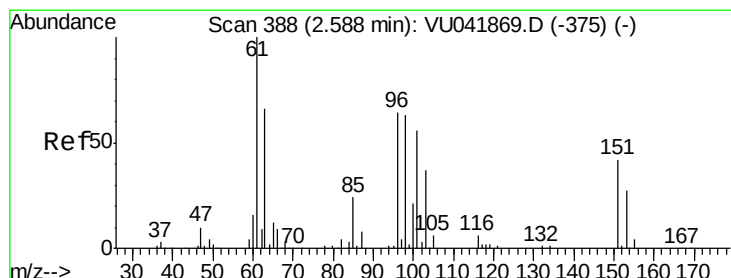
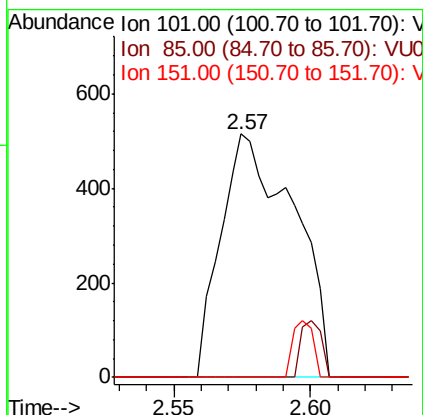
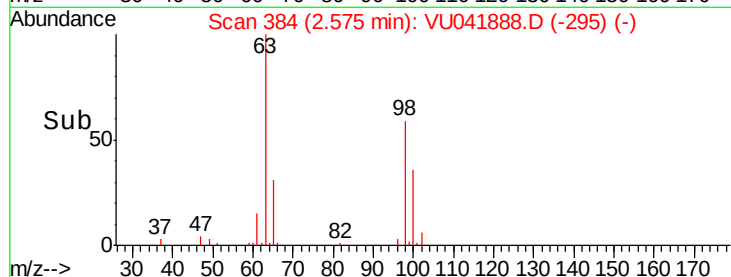
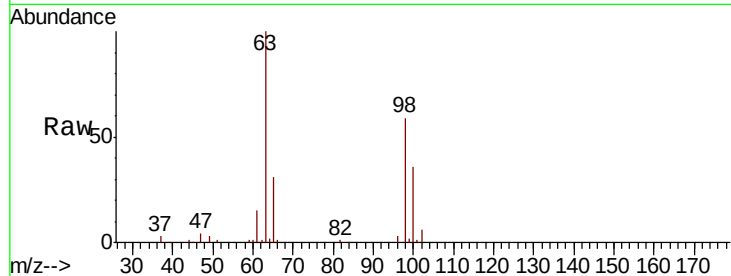
Tot Ion:101 Resp: 957

Ion Ratio Lower Upper

101 100

85 6.6 33.6 50.4#

151 6.7 56.2 84.4#



#12

1,1-Dichloroethene

Concen: 0.503 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.01 min

Lab File: VU041888.D

Acq: 07 Jan 2021 21:28

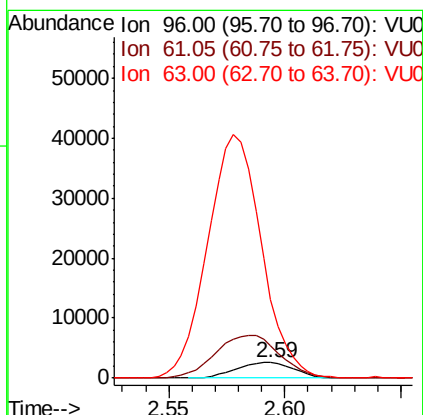
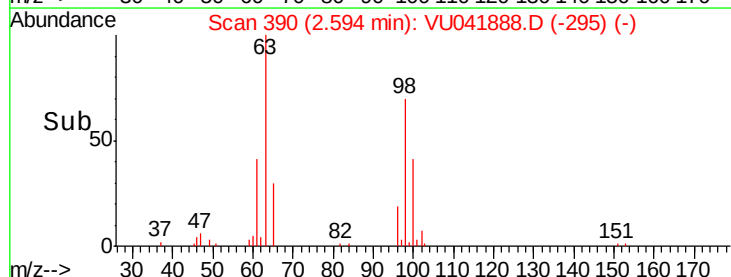
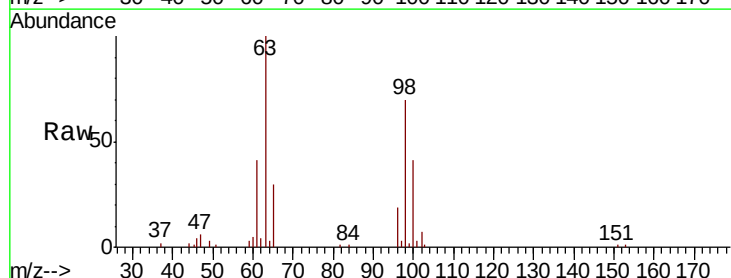
Tgt Ion: 96 Resp: 4521

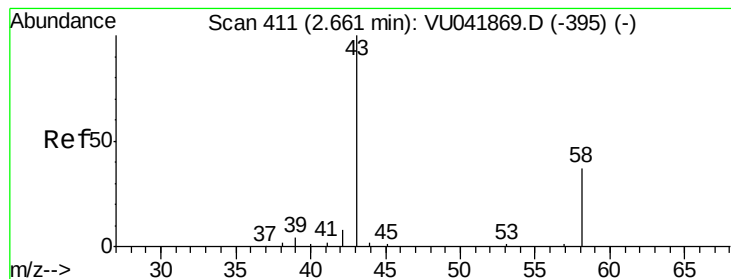
Ion Ratio Lower Upper

96 100

61 210.9 123.8 230.0

63 513.8 81.0 150.4#





#13

Acetone

Concen: 1.526 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.01 min

Lab File: VU041888.D

Acq: 07 Jan 2021 21:28

Instrument :

MSVOA_U

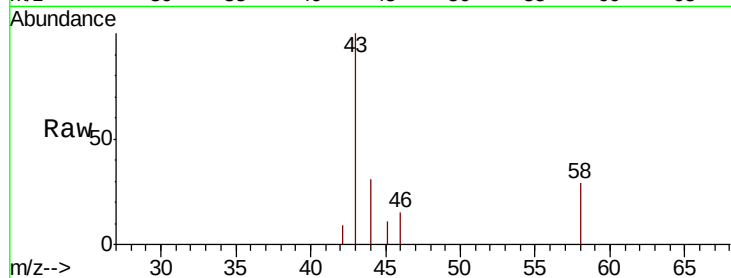
ClientSampled :

Tot Ion: 43 Resp: 2891

Ion Ratio Lower Upper

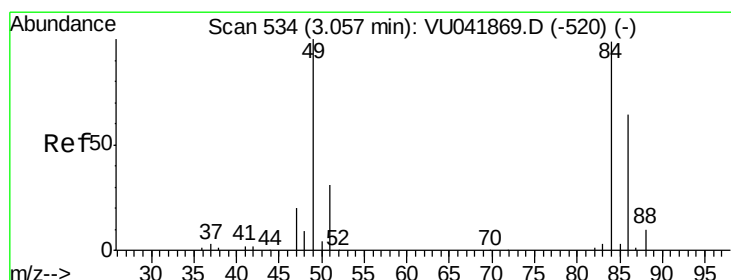
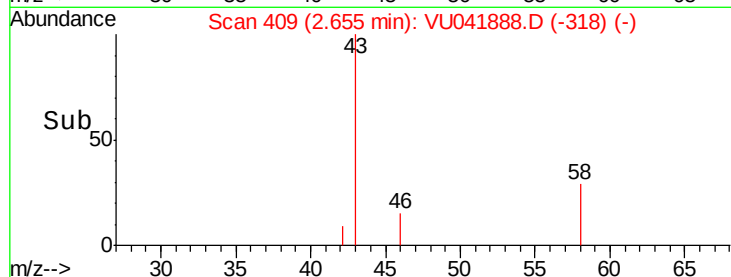
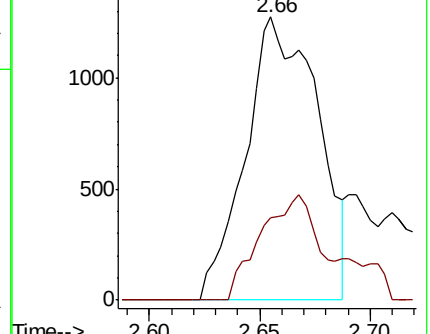
43 100

58 29.6 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041869.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041869.D (-395) (-)



#16

Methylene chloride

Concen: 0.212 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041888.D

Acq: 07 Jan 2021 21:28

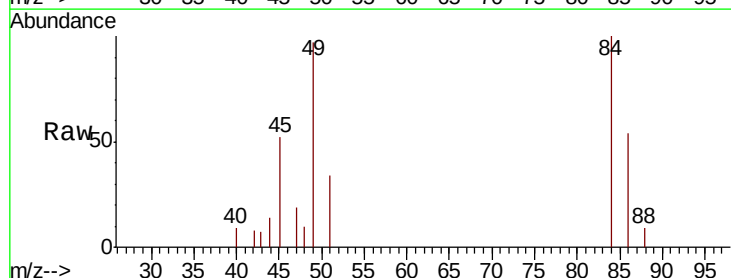
Tgt Ion: 84 Resp: 2274

Ion Ratio Lower Upper

84 100

86 53.9 45.1 83.7

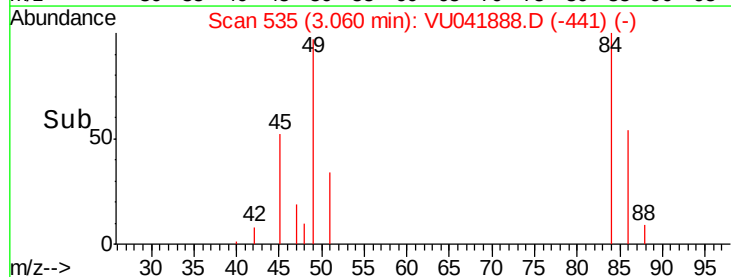
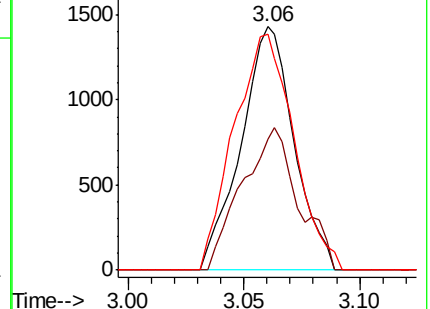
49 96.7 83.1 154.3

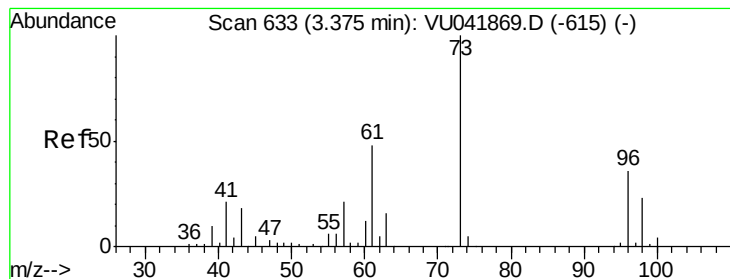


Abundance Ion 84.05 (83.75 to 84.75): VU041869.D (-520) (-)

Ion 86.00 (85.70 to 86.70): VU041869.D (-520) (-)

Ion 49.10 (48.80 to 49.80): VU041869.D (-520) (-)



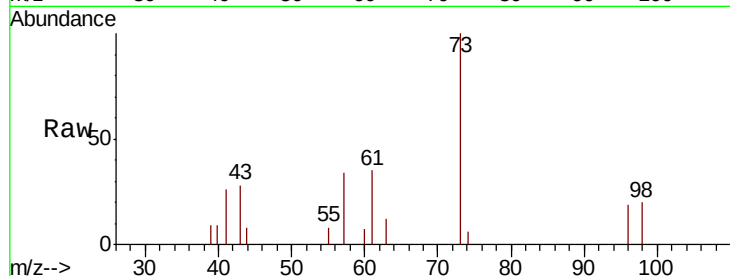


#17

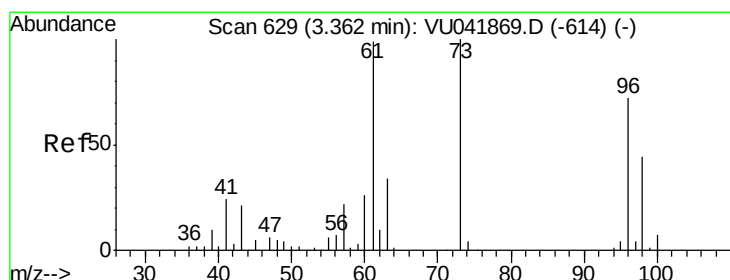
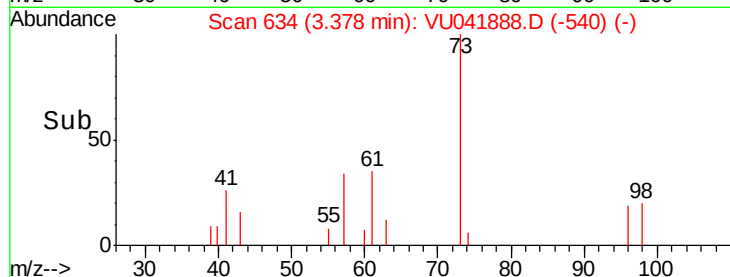
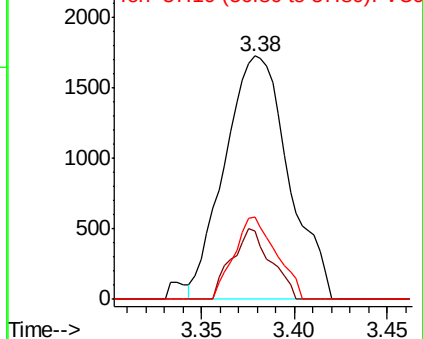
Methyl tert-butyl Ether
 Concen: 0.172 ug/L
 RT: 3.38 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 4135
 Ion Ratio Lower Upper
 73 100
 43 17.8 14.7 22.1
 57 22.3 18.2 27.4



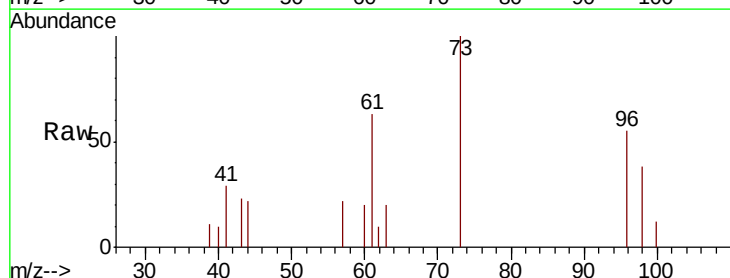
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



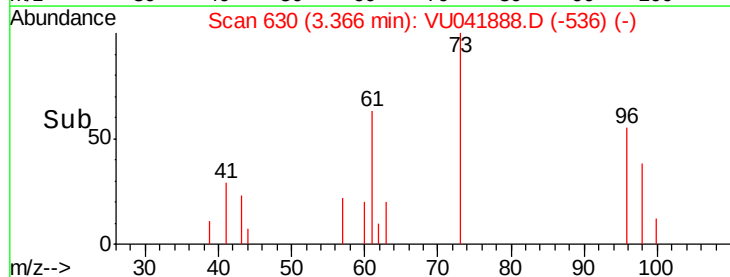
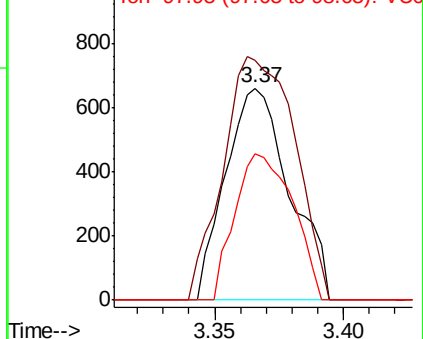
#18

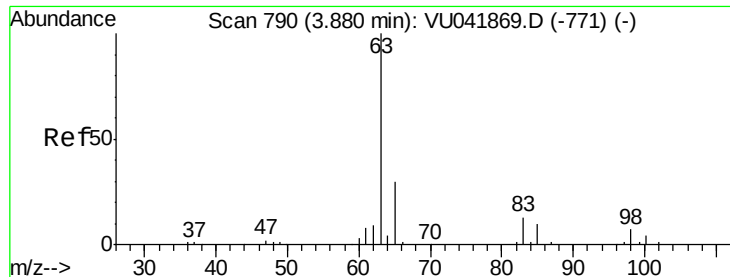
trans-1,2-Dichloroethene
 Concen: 0.123 ug/L
 RT: 3.37 min Scan# 630
 Delta R.T. 0.00 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Tgt Ion: 96 Resp: 1145
 Ion Ratio Lower Upper
 96 100
 61 113.0 101.8 189.0
 98 69.1 44.4 82.5



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

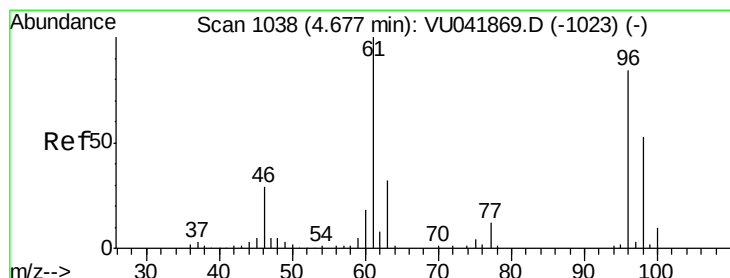
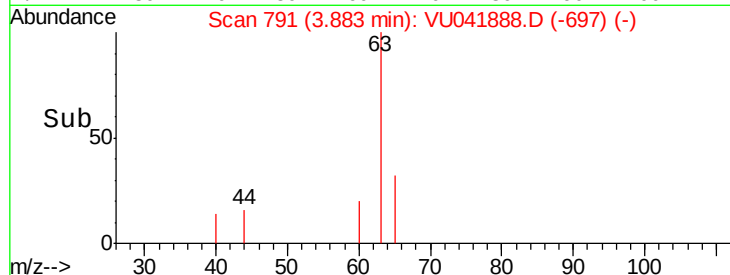
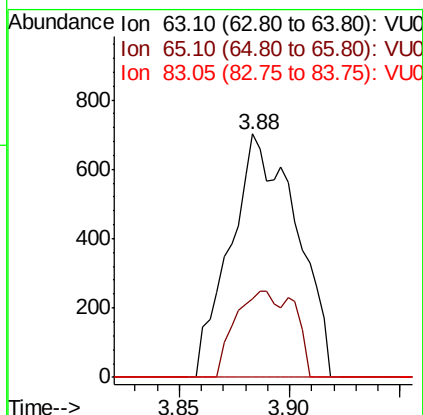
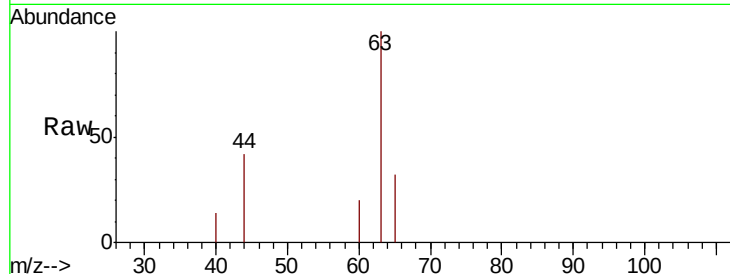




#19
 1,1-Dichloroethane
 Concen: 0.084 ug/L
 RT: 3.88 min Scan# 791
 Delta R.T. 0.00 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

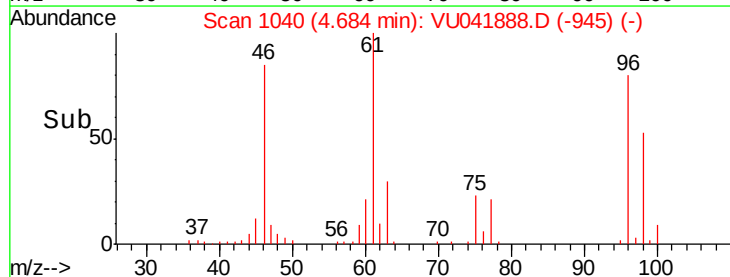
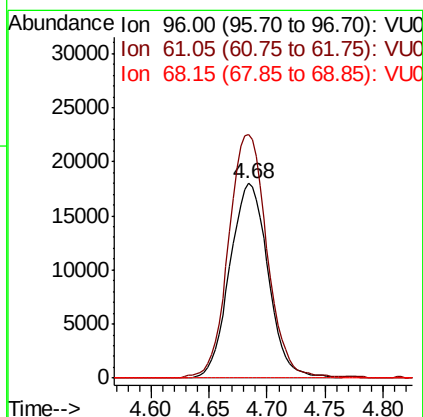
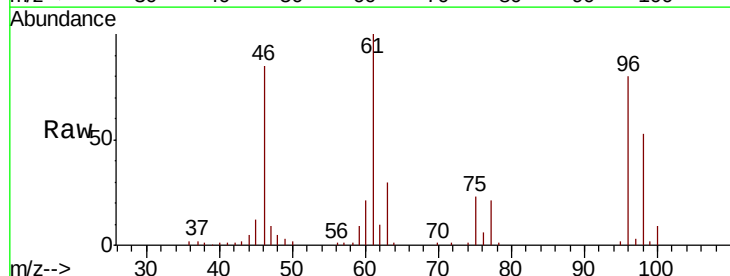
Instrument :
 MSVOA_U
 ClientSampled :

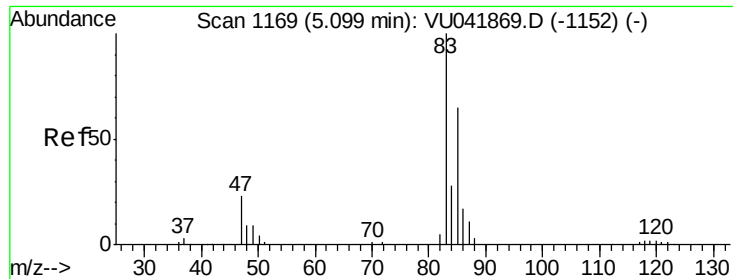
Tot Ion: 63 Resp: 1458
 Ion Ratio Lower Upper
 63 100
 65 32.3 21.3 39.6
 83 0.0 9.3 17.3#



#22
 cis-1,2-Dichloroethene
 Concen: 4.031 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.01 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Tgt Ion: 96 Resp: 41450
 Ion Ratio Lower Upper
 96 100
 61 125.1 88.8 165.0
 68 0.0 0.0 0.0

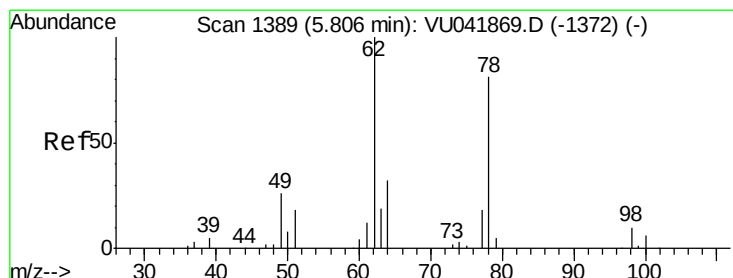
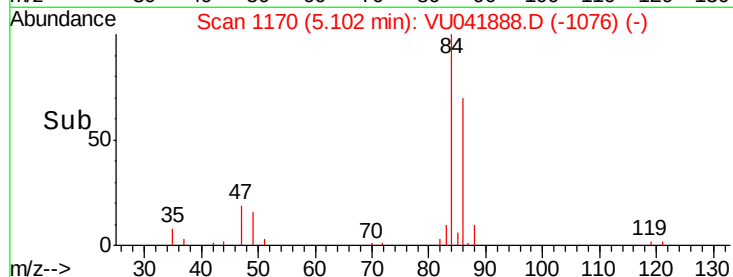
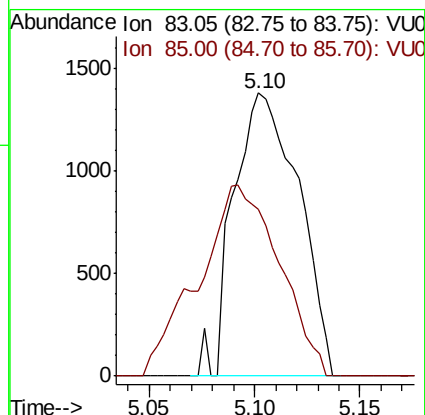
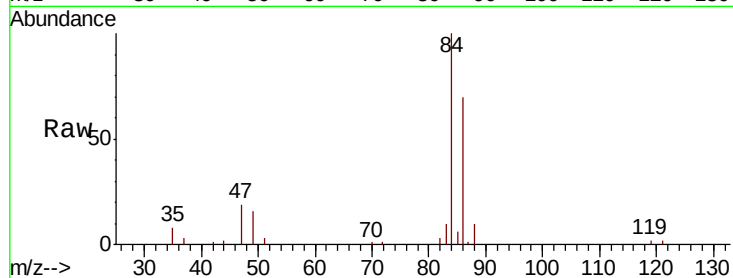




#25
Chloroform
Concen: 0.168 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. 0.00 min
Lab File: VU041888.D
Acq: 07 Jan 2021 21:28

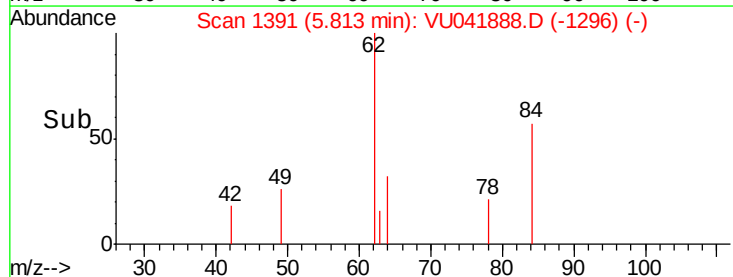
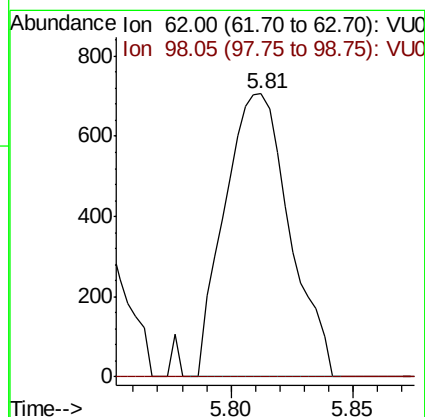
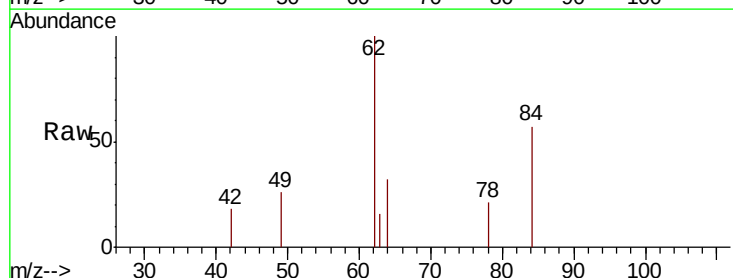
Instrument :
MSVOA_U
ClientSampled :

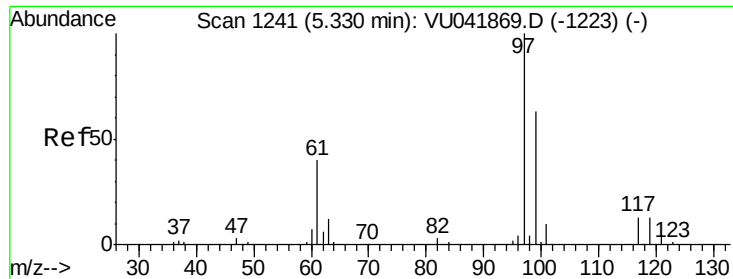
Tot Ion: 83 Resp: 2949
Ion Ratio Lower Upper
83 100
85 59.1 44.2 82.0



#27
1,2-Dichloroethane
Concen: 0.110 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.01 min
Lab File: VU041888.D
Acq: 07 Jan 2021 21:28

Tgt Ion: 62 Resp: 1302
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#

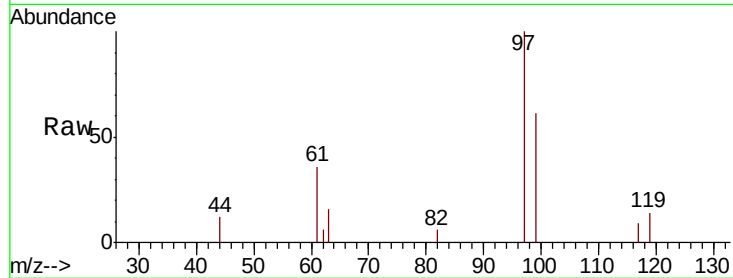




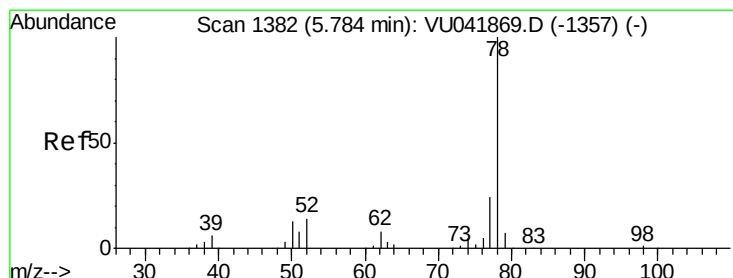
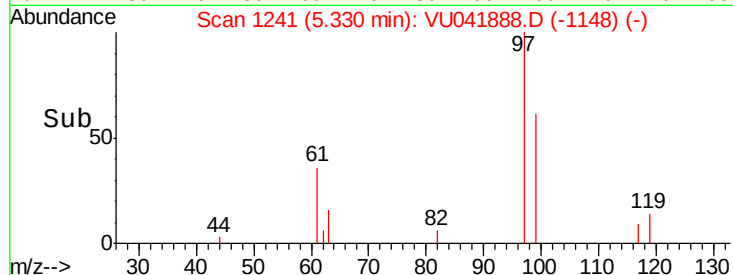
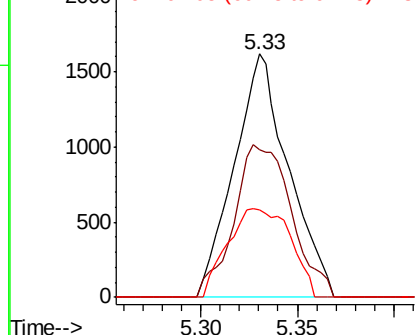
#29
 1,1,1-Trichloroethane
 Concen: 0.208 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. 0.00 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 3163
 Ion Ratio Lower Upper
 97 100
 99 66.1 51.3 76.9
 61 42.0 36.5 54.7

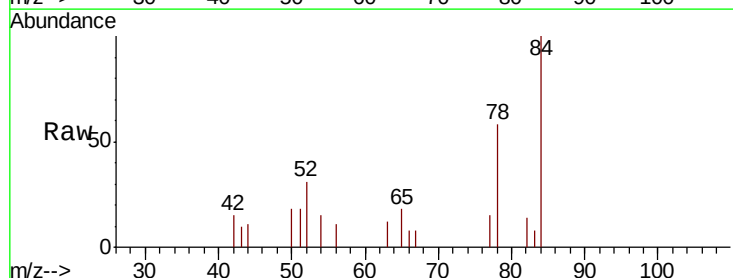


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

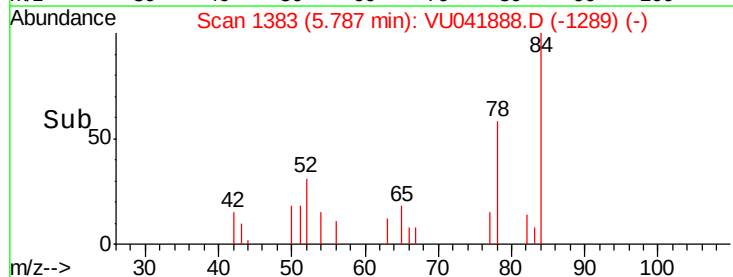
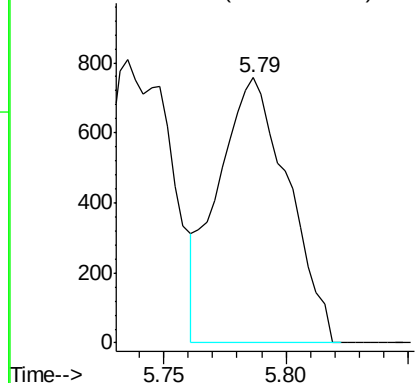


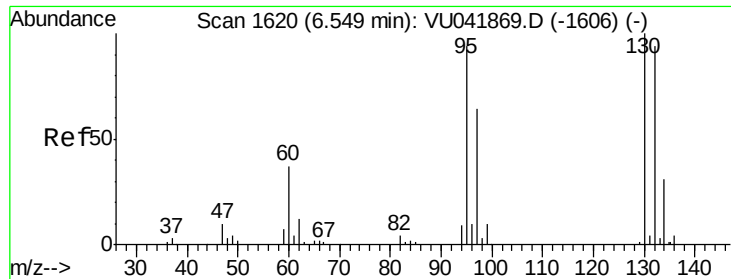
#33
 Benzene
 Concen: 0.036 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. 0.00 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Tgt Ion: 78 Resp: 1514



Abundance Ion 78.10 (77.80 to 78.80): VU0



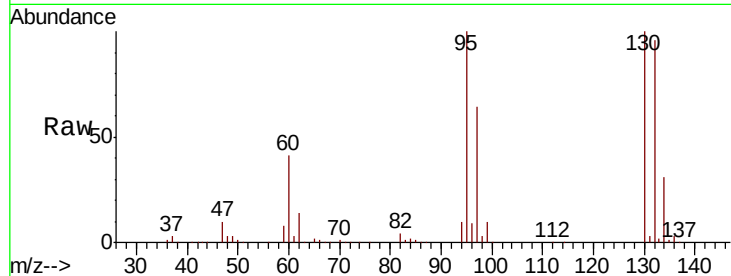


#34
 Trichloroethene
 Concen: 182.824 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 1947480

Ion	Ratio	Lower	Upper
95	100		
97	63.9	43.9	81.5
132	95.7	63.1	117.3
130	99.6	67.4	125.2



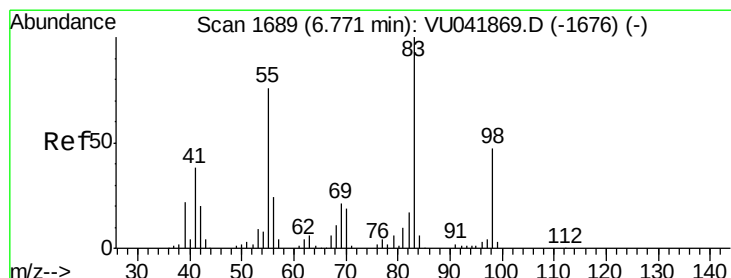
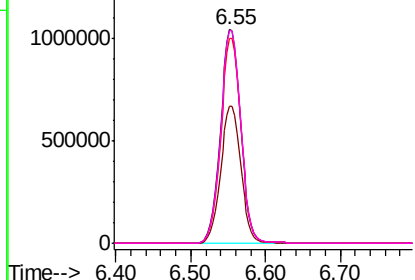
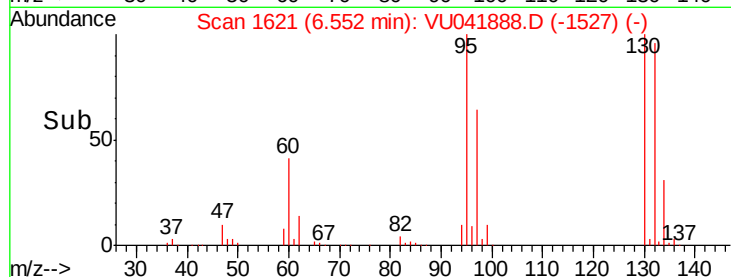
Abundance

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

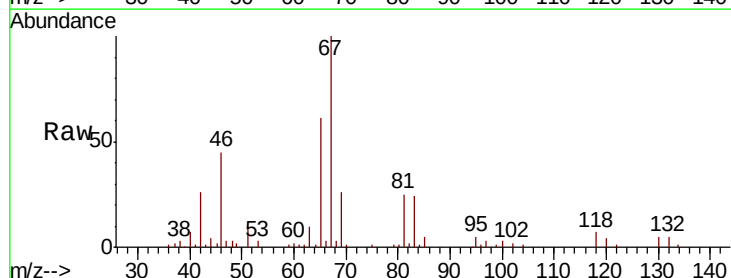
Ion 129.95 (129.65 to 130.65): V



#35
 Methylcyclohexane
 Concen: 0.860 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Tgt Ion: 83 Resp: 14816

Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.2	91.8#
98	0.0	36.6	54.8#

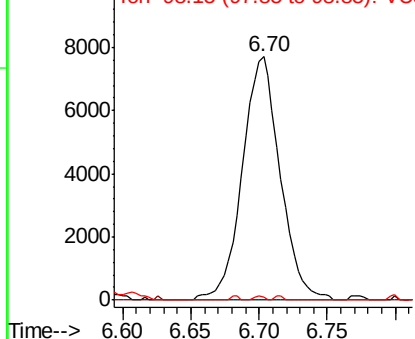
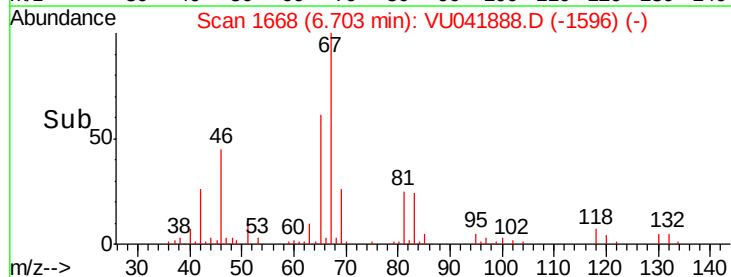


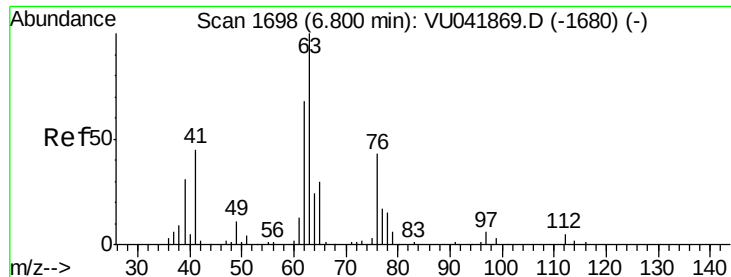
Abundance

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

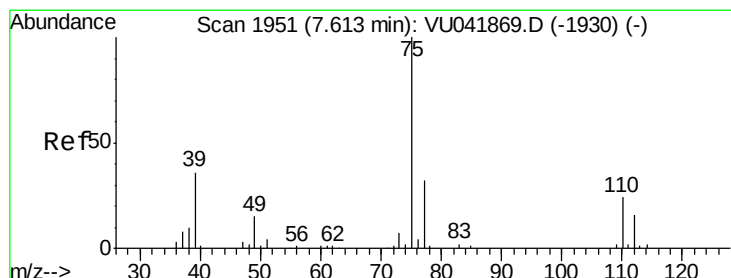
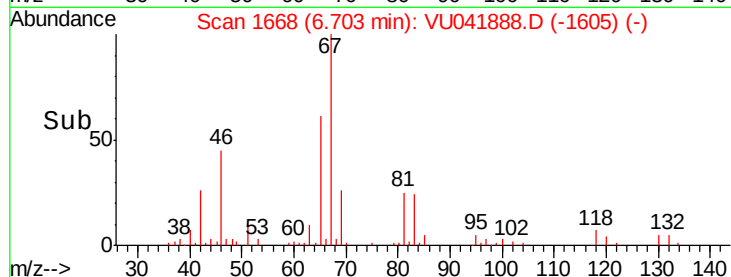
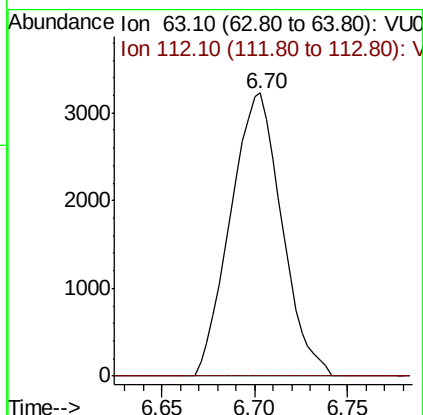
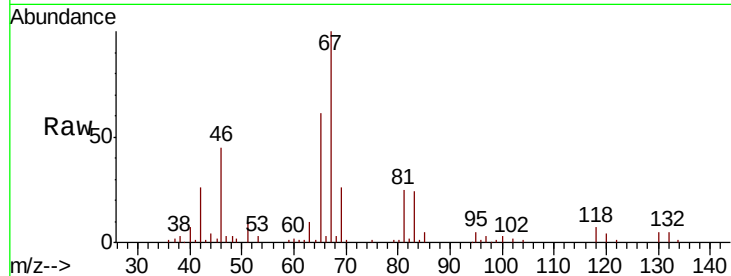




#37
 1,2-Dichloropropane
 Concen: 0.572 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

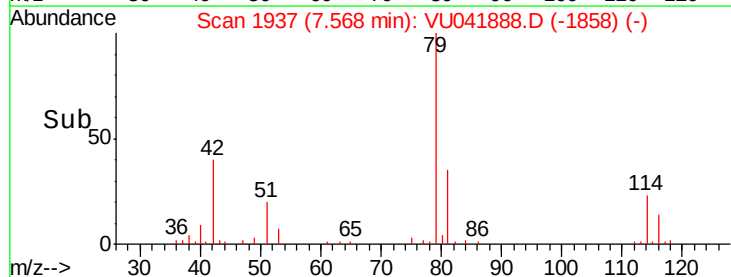
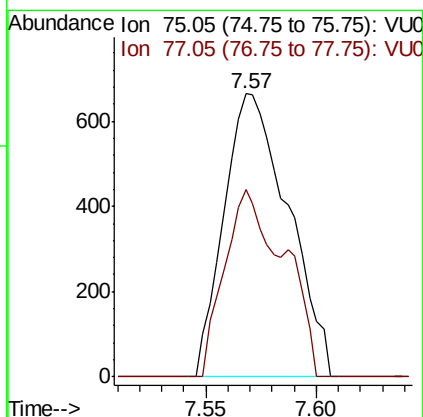
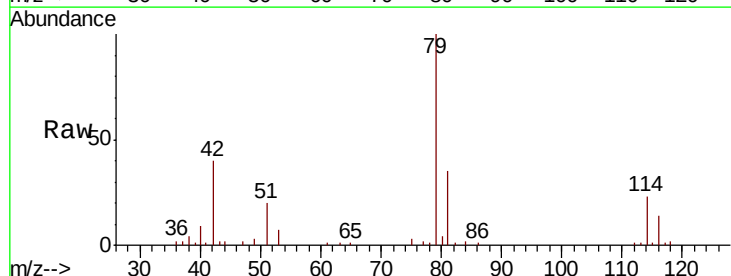
Instrument :
 MSVOA_U
 ClientSampleId :

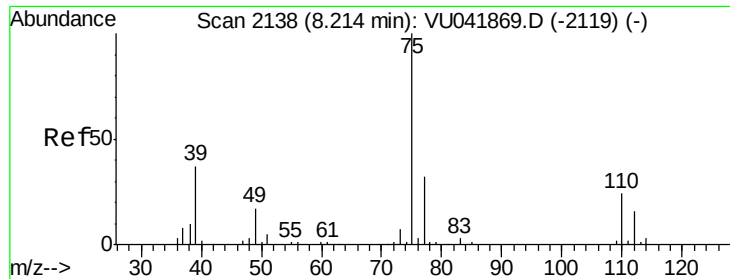
Tot Ion: 63 Resp: 6198
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.083 ug/L
 RT: 7.57 min Scan# 1937
 Delta R.T. -0.04 min
 Lab File: VU041888.D
 Acq: 07 Jan 2021 21:28

Tgt Ion: 75 Resp: 1341
 Ion Ratio Lower Upper
 75 100
 77 66.4 22.3 41.3#

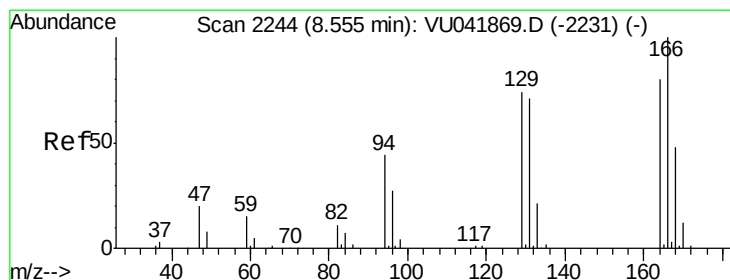
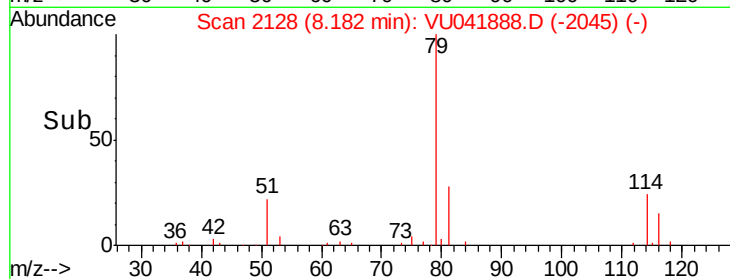
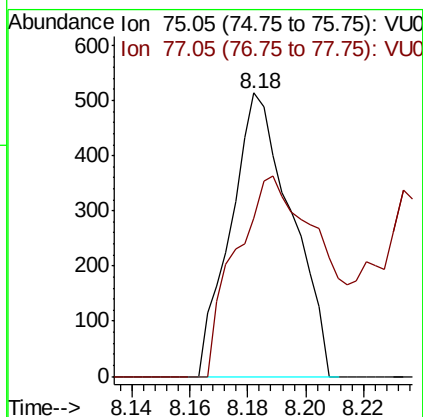
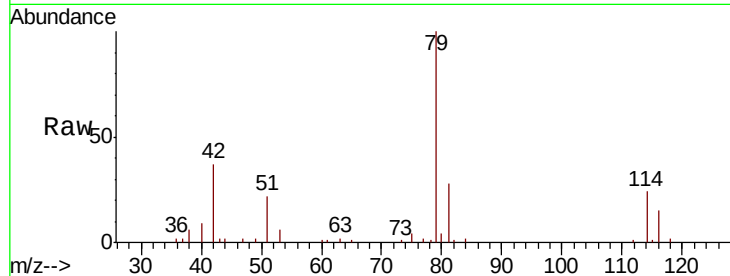




#44
trans-1,3-Dichloropropene
Concen: 0.052 ug/L
RT: 8.18 min Scan# 2128
Delta R.T. -0.03 min
Lab File: VU041888.D
Acq: 07 Jan 2021 21:28

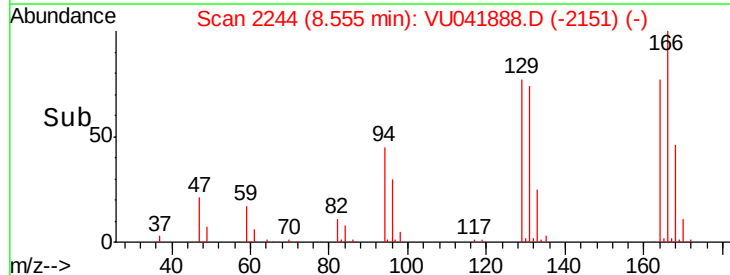
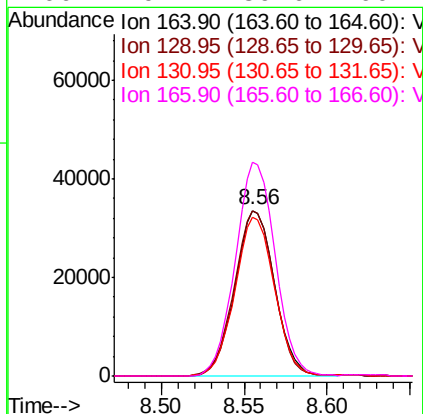
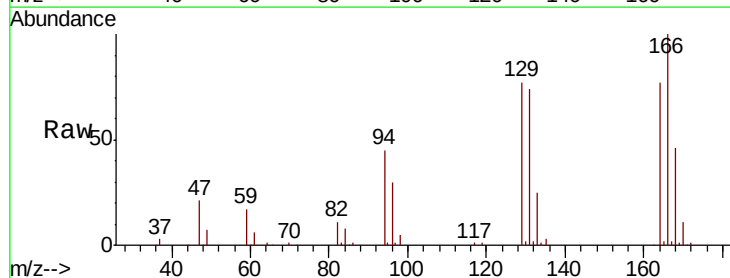
Instrument :
MSVOA_U
ClientSampleId :

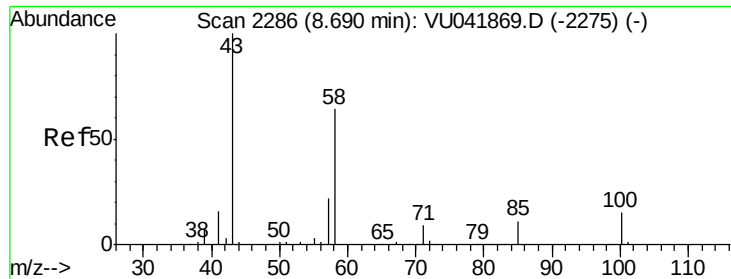
Tot Ion: 75 Resp: 744
Ion Ratio Lower Upper
75 100
77 55.9 23.8 44.2#



#47
Tetrachloroethene
Concen: 7.475 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. 0.00 min
Lab File: VU041888.D
Acq: 07 Jan 2021 21:28

Tgt Ion:164 Resp: 55740
Ion Ratio Lower Upper
164 100
129 99.7 72.2 134.0
131 96.0 66.9 124.3
166 129.1 89.6 166.4

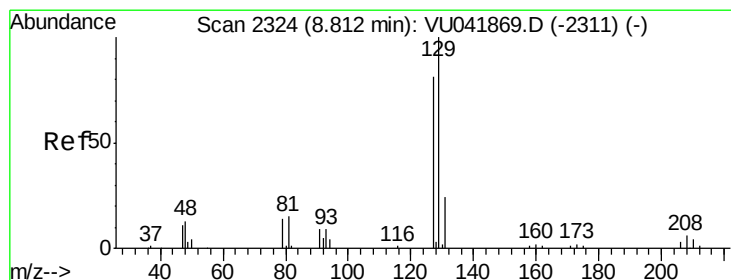
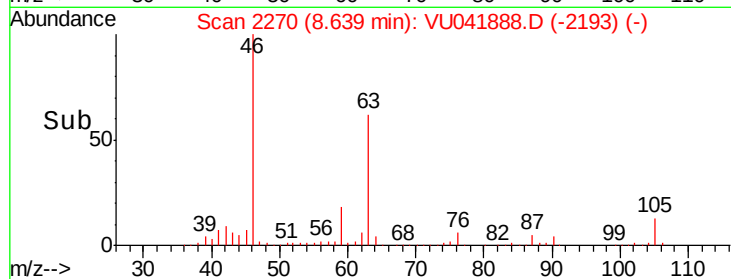
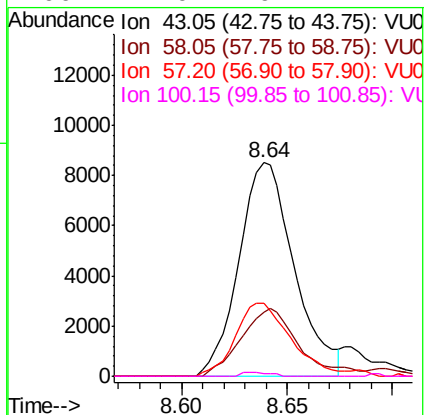
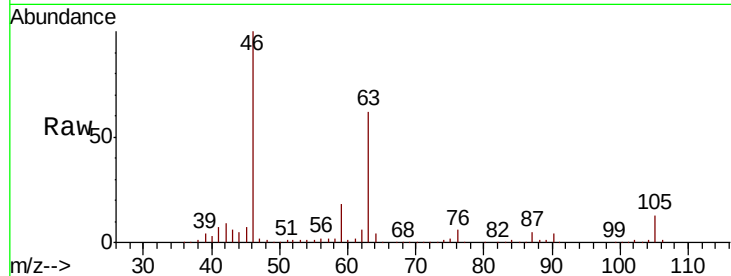




#48
2-Hexanone
Concen: 2.764 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041888.D
Acq: 07 Jan 2021 21:28

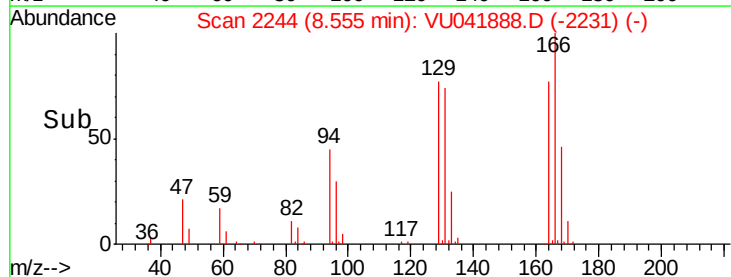
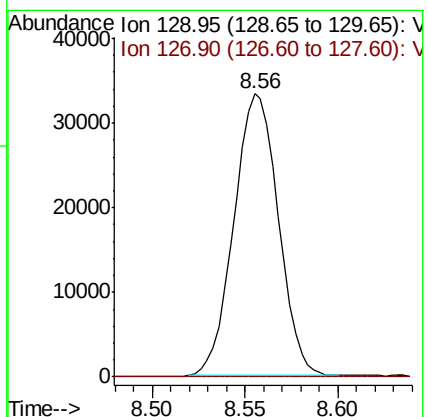
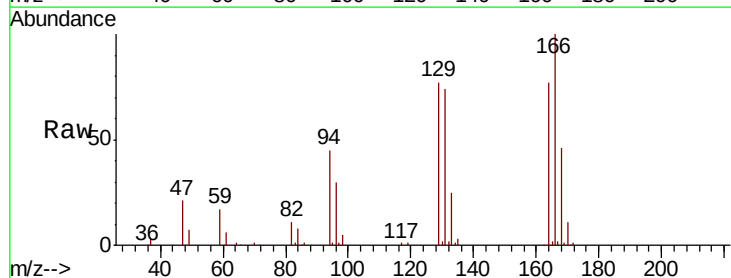
Instrument :
MSVOA_U
ClientSampleId :

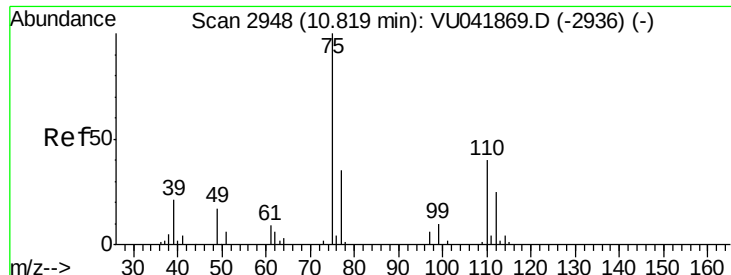
Tot Ion: 43 Resp: 15518
Ion Ratio Lower Upper
43 100
58 32.9 47.9 71.9#
57 34.3 16.5 24.7#
100 1.0 9.4 14.2#



#49
Dibromochloromethane
Concen: 6.012 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041888.D
Acq: 07 Jan 2021 21:28

Tgt Ion:129 Resp: 55377
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.7#





#59

1,2,3-Trichloropropane

Concen: 0.715 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041888.D

Acq: 07 Jan 2021 21:28

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 5819

Ion Ratio Lower Upper

75 100

77 31.0 26.2 39.2

