

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102120\
 Data File : VU040878.D
 Acq On : 21 Oct 2020 17:08
 Operator : SY/MD
 Sample : L4420-12
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK5

Quant Time: Oct 22 00:51:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 22 00:42:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	231049	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	236204	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	102762	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	77627	4.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.00%
7) Chloroethane-d5	1.92	69	71893	5.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.00%
11) 1,1-Dichloroethene-d2	2.58	63	124398	3.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.80%
20) 2-Butanone-d5	4.65	46	343551	61.09	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.18%
24) Chloroform-d	5.08	84	171534	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.72	65	103797	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
32) Benzene-d6	5.74	84	302203	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
36) 1,2-Dichloropropane-d6	6.70	67	105443	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.91	98	240022	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
43) trans-1,3-Dichloropropene-	8.19	79	40888	4.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.20%
46) 2-Hexanone-d5	8.64	63	254169	60.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.18%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	101365	5.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	99057	5.48	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	1270	0.054	ug/L #	83
8) Chloroethane	1.92	64	482	0.031	ug/L #	52
9) Trichlorofluoromethane	2.15	101	5416	0.173	ug/L	91
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1295	0.071	ug/L #	23
12) 1,1-Dichloroethene	2.59	96	4732	0.280	ug/L #	1
13) Acetone	2.65	43	6797	1.720	ug/L	69
15) Methyl Acetate	2.95	43	1773	0.177	ug/L #	55
17) Methyl tert-butyl Ether	3.38	73	3698	0.090	ug/L #	79
19) 1,1-Dichloroethane	3.89	63	5625	0.159	ug/L	98
22) cis-1,2-Dichloroethene	4.69	96	3598	0.187	ug/L	69
25) Chloroform	5.11	83	8652	0.240	ug/L	86
31) Carbon tetrachloride	5.54	117	8064	0.299	ug/L	90
34) Trichloroethene	6.56	95	31021	1.605	ug/L	92
35) Methylcyclohexane	6.70	83	25126	0.869	ug/L #	15
37) 1,2-Dichloropropane	6.70	63	12962	0.632	ug/L #	89
39) cis-1,3-Dichloropropene	7.58	75	3217	0.117	ug/L #	38
42) Toluene	7.98	91	2915	0.038	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 22 00:42:50 2020
Response via : Initial Calibration

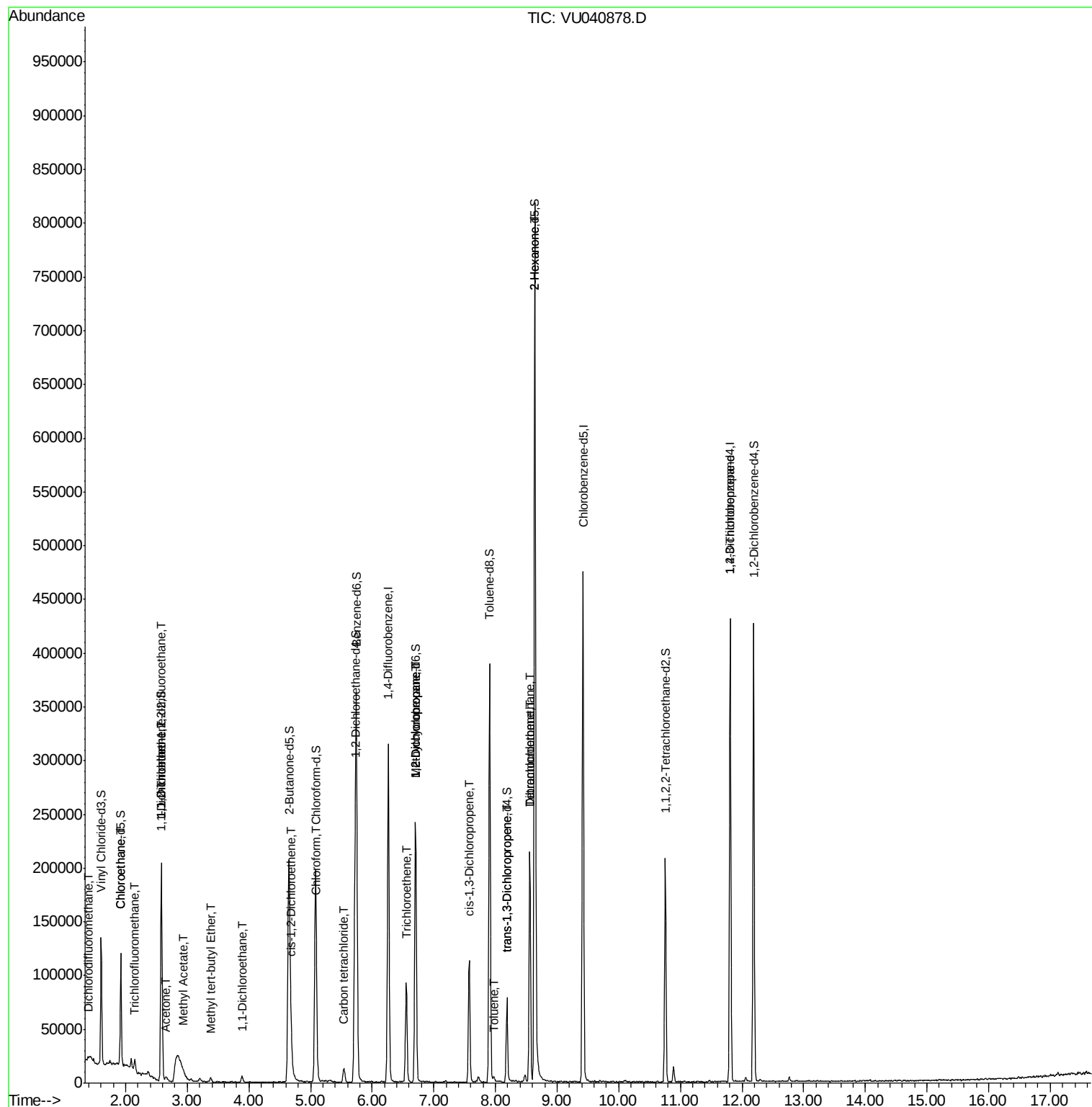
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.19	75	2398	0.097	ug/L #	67
47) Tetrachloroethene	8.56	164	43205	3.004	ug/L	96
48) 2-Hexanone	8.64	43	36358	3.633	ug/L #	68
49) Dibromochloromethane	8.56	129	42332	2.540	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	13551	1.017	ug/L	93

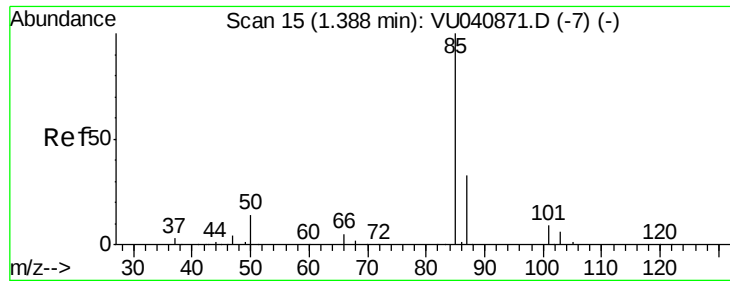
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.054 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

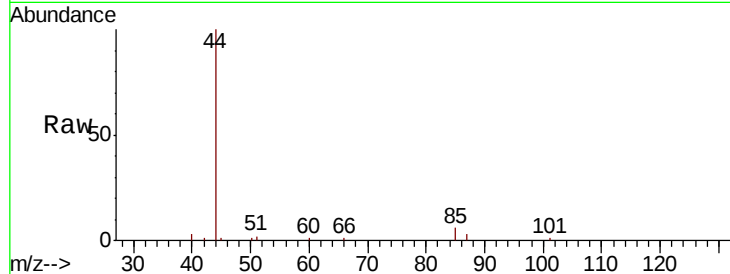
C0AK5

Tot Ion: 85.00 Resp: 1270

Ion Ratio Lower Upper

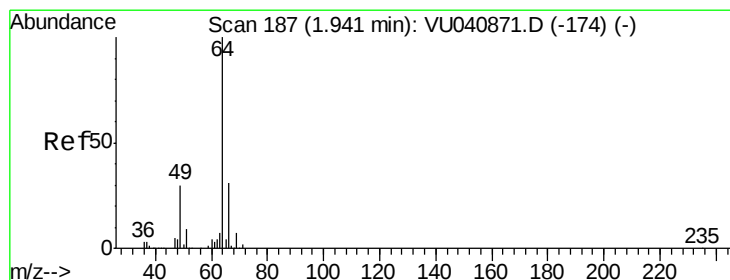
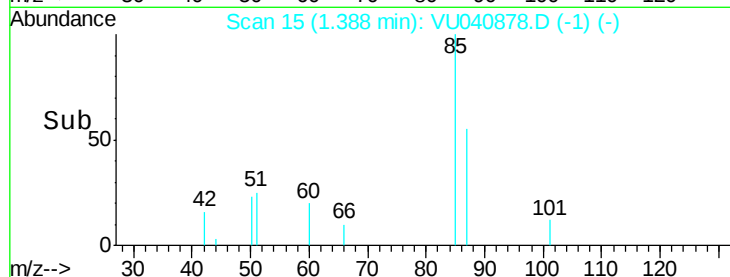
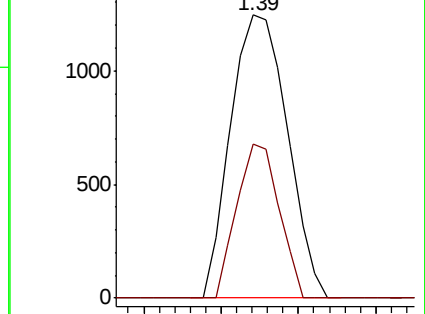
85 100

87 40.6 25.0 37.6#



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#8

Chloroethane

Concen: 0.031 ug/L

RT: 1.92 min Scan# 180

Delta R.T. -0.02 min

Lab File: VU040878.D

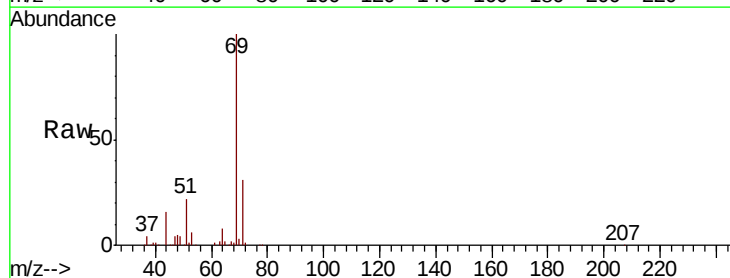
Acq: 21 Oct 2020 17:08

Tgt Ion: 64 Resp: 482

Ion Ratio Lower Upper

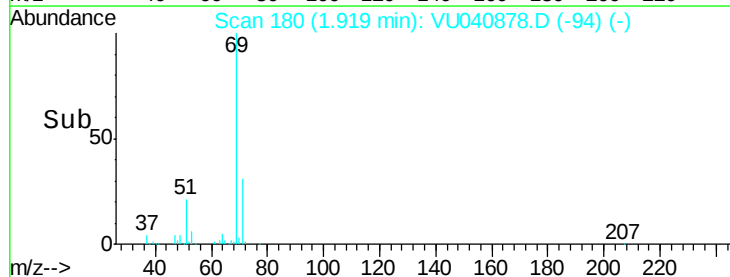
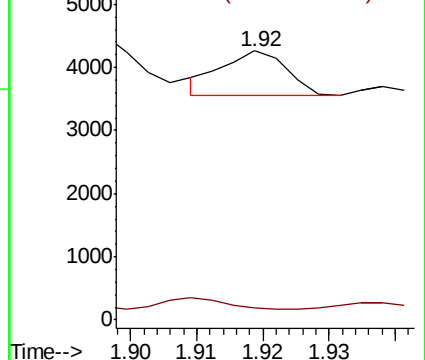
64 100

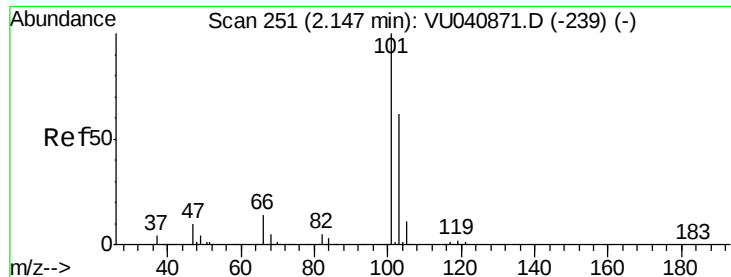
66 4.3 21.2 39.4#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



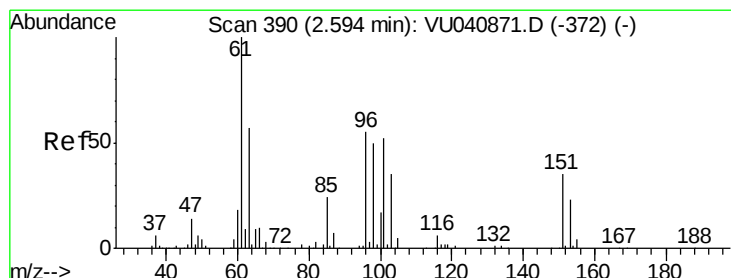
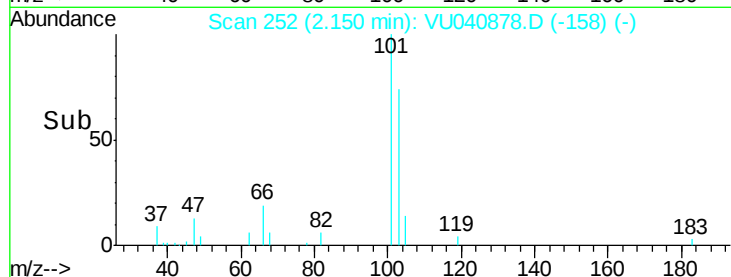
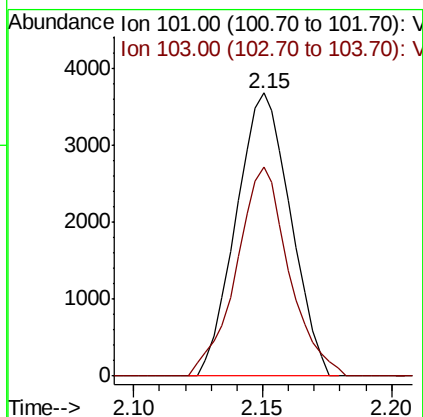
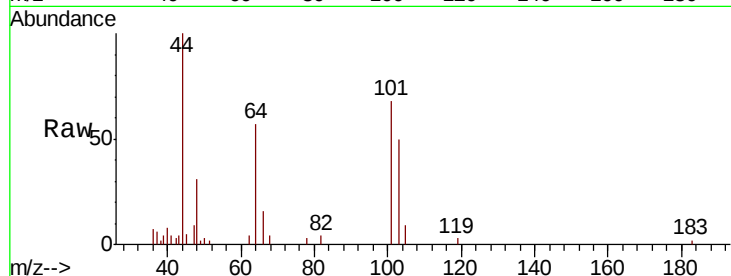


#9

Trichlorofluoromethane
Concen: 0.173 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU040878.D
Acq: 21 Oct 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
C0AK5

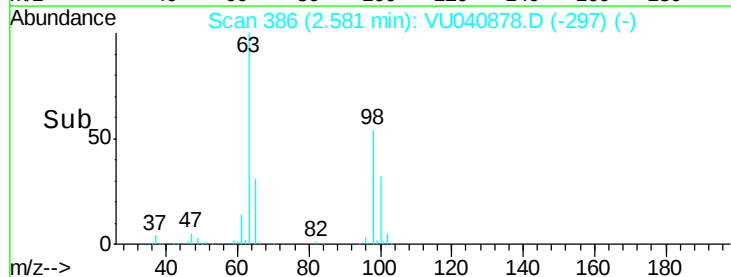
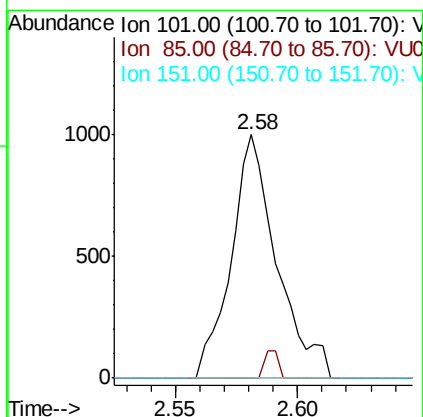
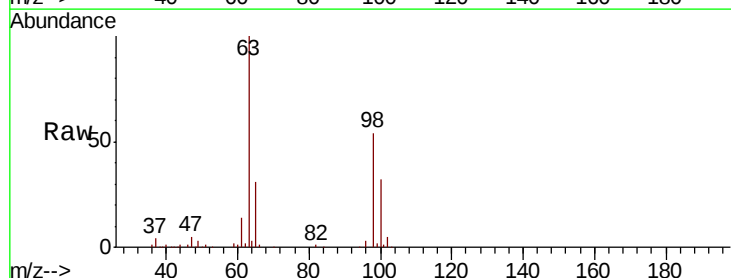
Tot Ion:101 Resp: 5416
Ion Ratio Lower Upper
101 100
103 71.7 51.4 77.2

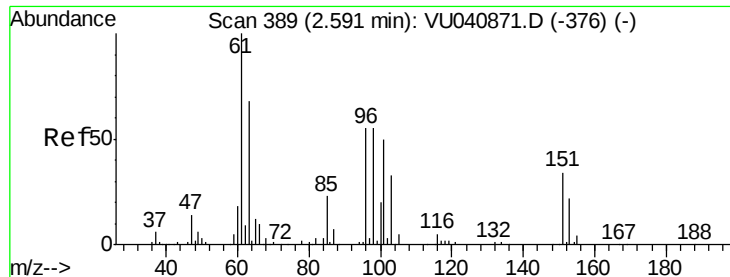


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.071 ug/L
RT: 2.58 min Scan# 386
Delta R.T. -0.01 min
Lab File: VU040878.D
Acq: 21 Oct 2020 17:08

Tgt Ion:101 Resp: 1295
Ion Ratio Lower Upper
101 100
85 3.3 36.4 54.6#
151 0.0 56.3 84.5#





#12

1,1-Dichloroethene

Concen: 0.280 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

C0AK5

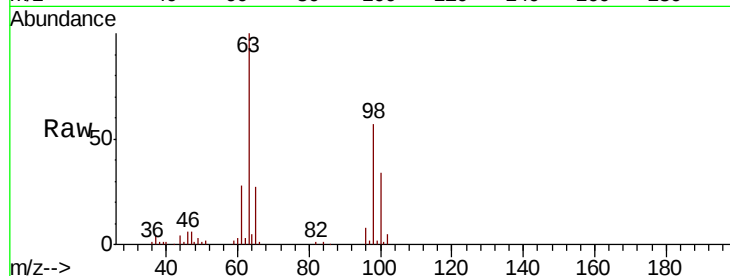
Tot Ion: 96 Resp: 4732

Ion Ratio Lower Upper

96 100

61 329.9 130.9 243.1#

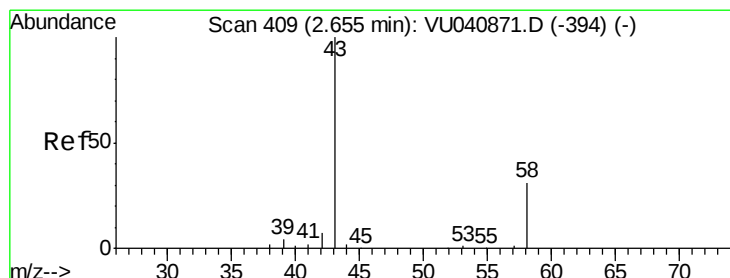
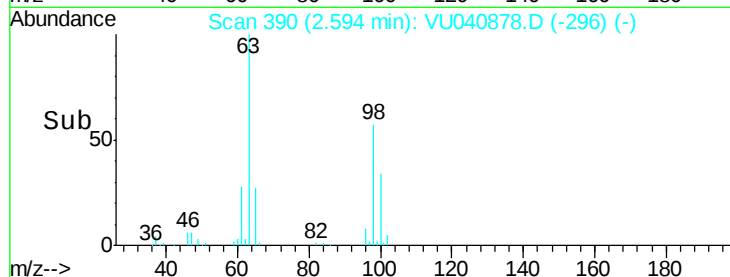
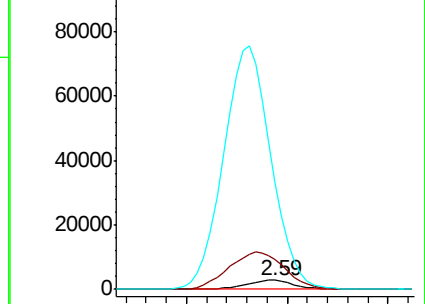
63 1184.2 85.4 158.6#



Abundance Ion 96.00 (95.70 to 96.70): VU040878.D (-296) (-)

Ion 61.05 (60.75 to 61.75): VU040878.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VU040878.D (-296) (-)



#13

Acetone

Concen: 1.720 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU040878.D

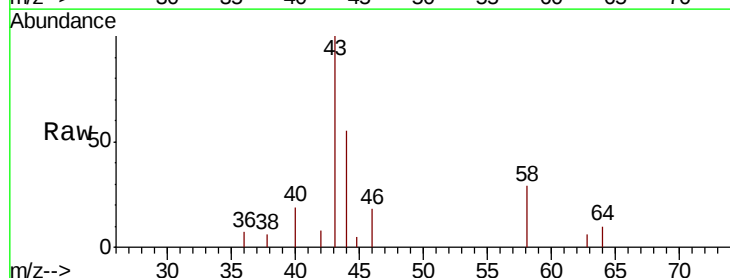
Acq: 21 Oct 2020 17:08

Tgt Ion: 43 Resp: 6797

Ion Ratio Lower Upper

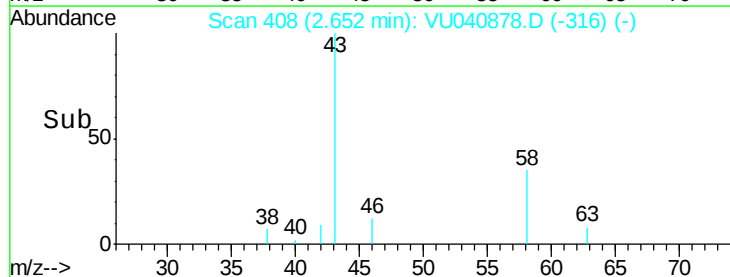
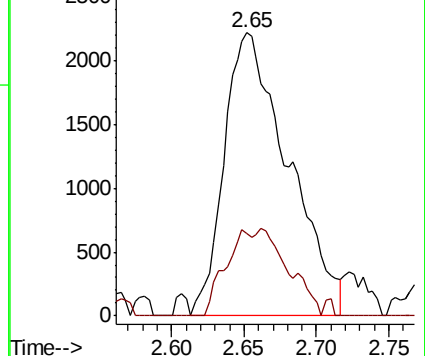
43 100

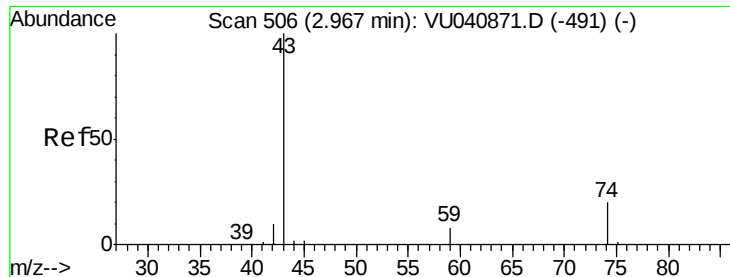
58 12.7 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU040878.D (-316) (-)

Ion 58.05 (57.75 to 58.75): VU040878.D (-316) (-)





#15

Methvl Acetate

Concen: 0.177 ug/L

RT: 2.95 min Scan# 501

Delta R.T. -0.02 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

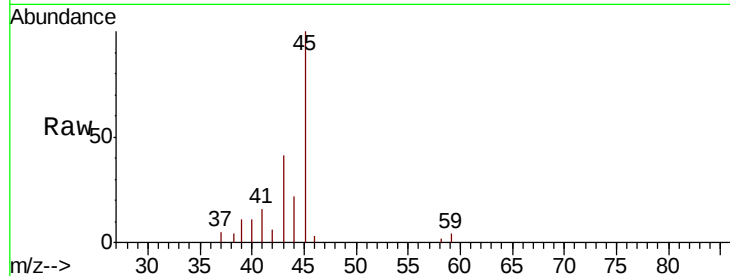
C0AK5

Tot Ion: 43 Resp: 1773

Ion Ratio Lower Upper

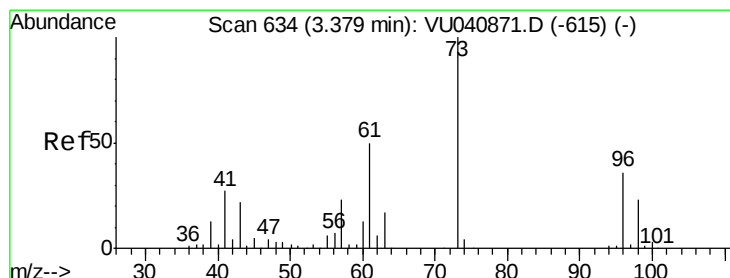
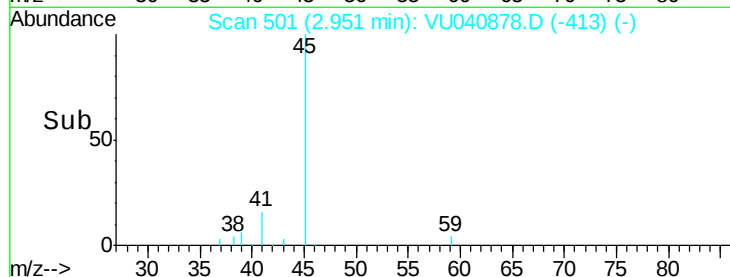
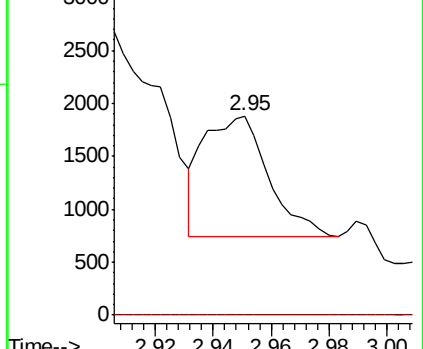
43 100

74 0.0 16.6 25.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#17

Methyl tert-butyl Ether

Concen: 0.090 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

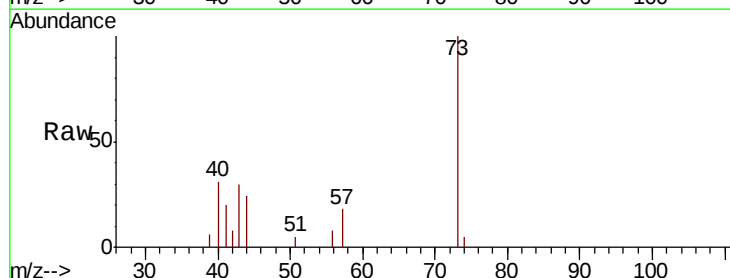
Tgt Ion: 73 Resp: 3698

Ion Ratio Lower Upper

73 100

43 36.5 18.6 27.8#

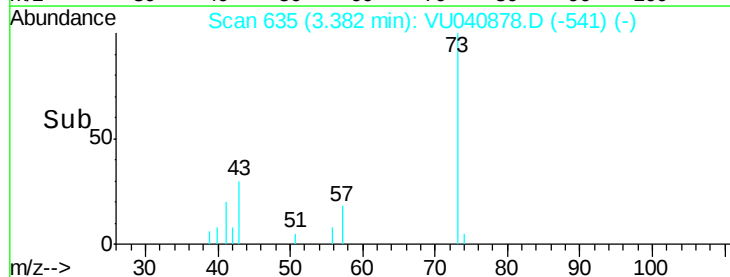
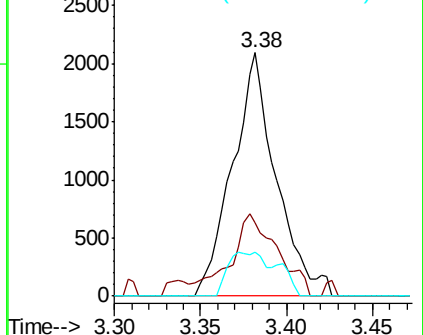
57 15.8 18.5 27.7#

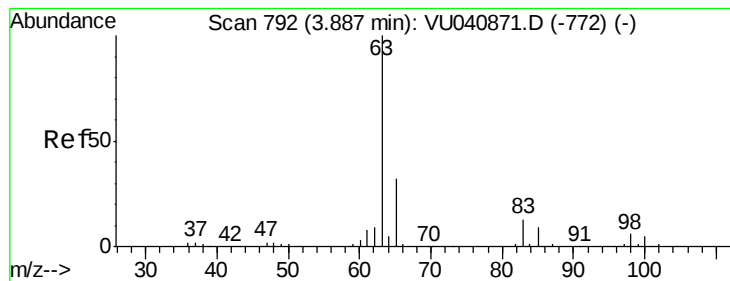


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#19

1,1-Dichloroethane

Concen: 0.159 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

C0AK5

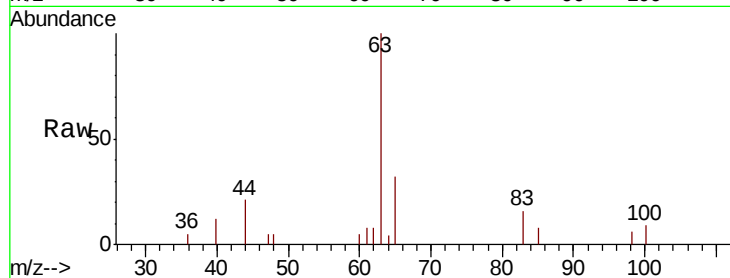
Tot Ion: 63 Resp: 5625

Ion Ratio Lower Upper

63 100

65 32.2 22.6 42.0

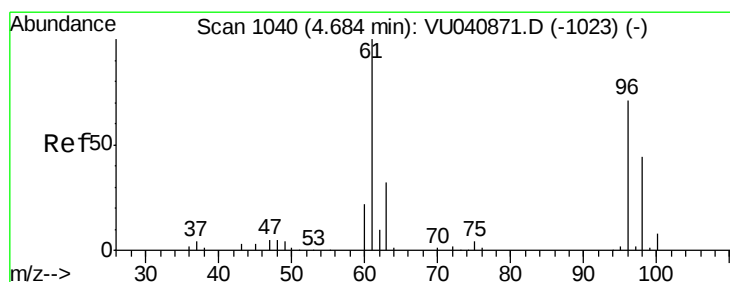
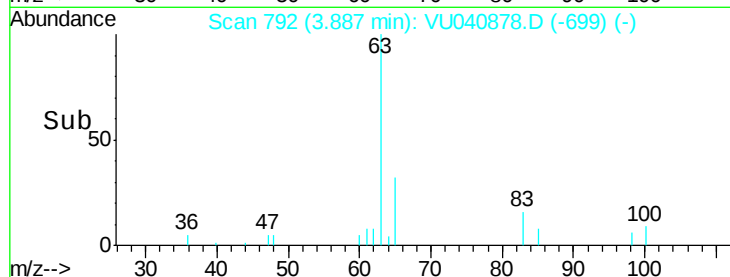
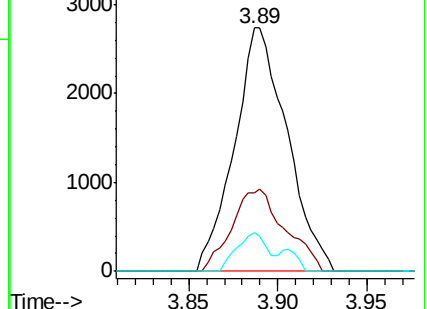
83 15.9 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040878.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU040878.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU040878.D (-699) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.187 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

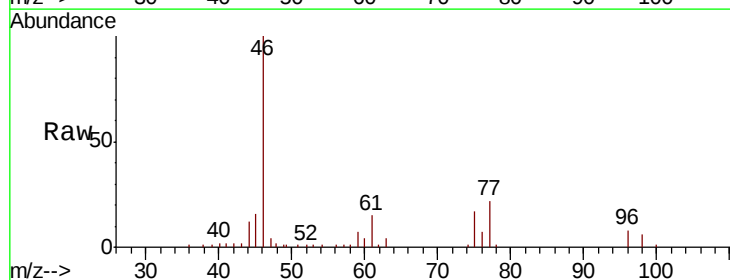
Tgt Ion: 96 Resp: 3598

Ion Ratio Lower Upper

96 100

61 180.6 100.0 185.6

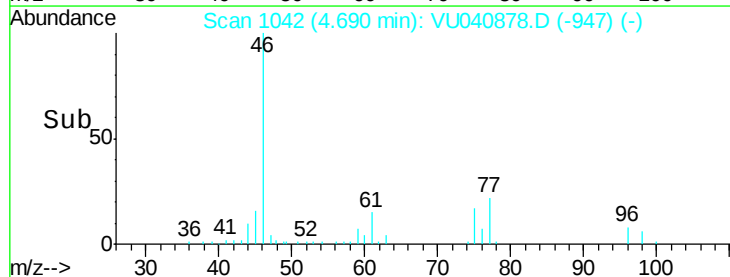
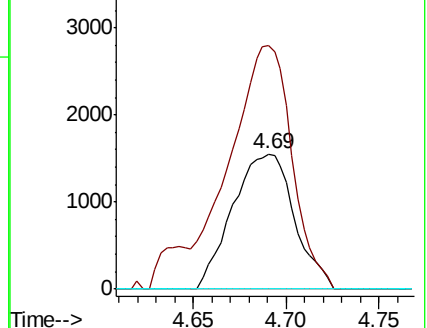
68 0.0 0.0 0.0

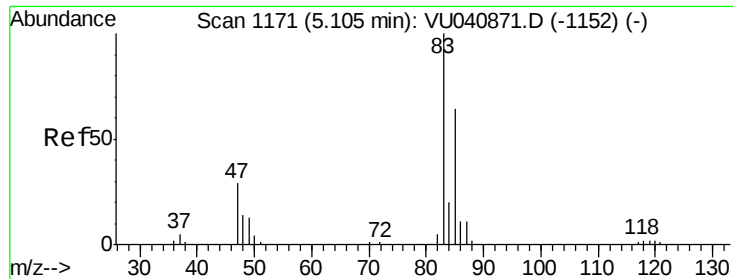


Abundance Ion 96.00 (95.70 to 96.70): VU040878.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040878.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040878.D (-947) (-)

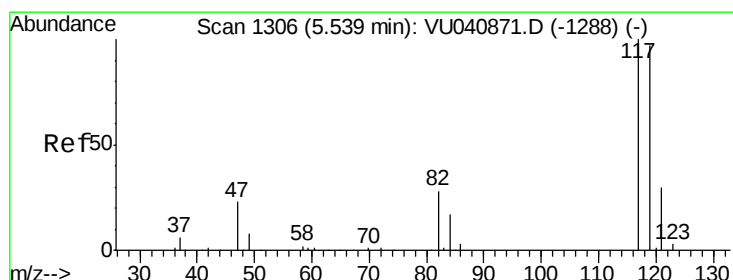
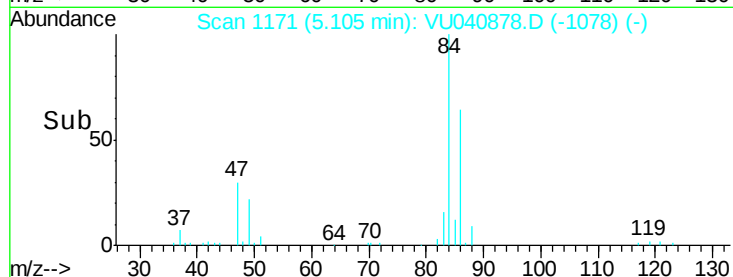
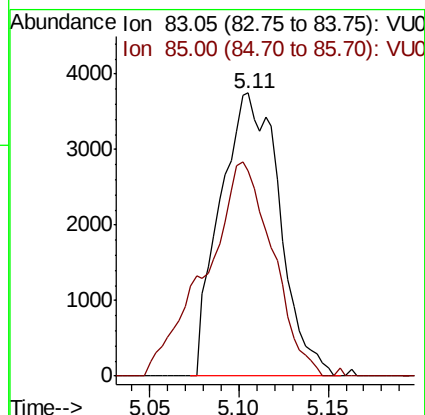
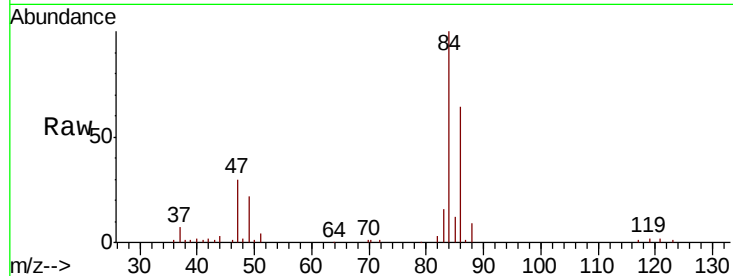




#25
Chloroform
Concen: 0.240 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040878.D
Acq: 21 Oct 2020 17:08

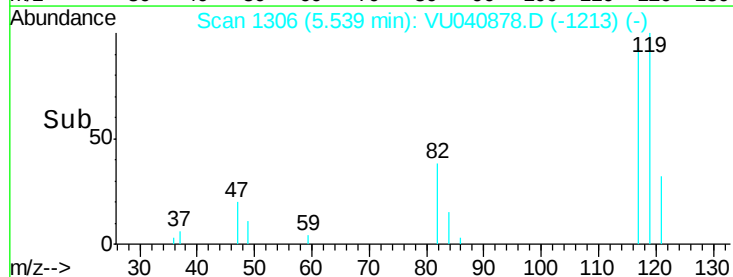
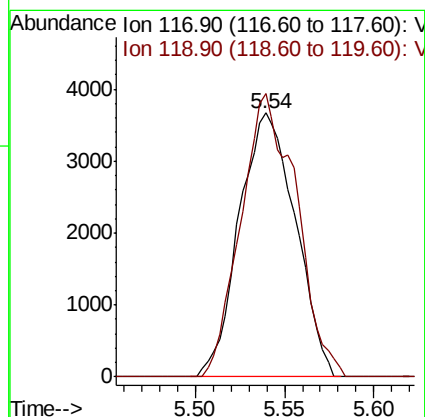
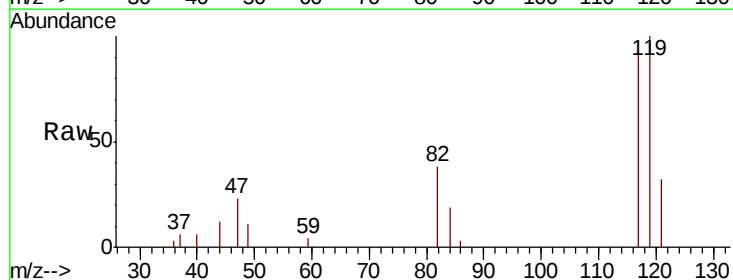
Instrument :
MSVOA_U
ClientSampleId :
C0AK5

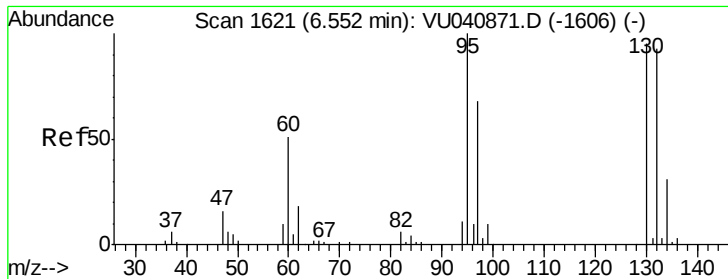
Tot Ion: 83 Resp: 8652
Ion Ratio Lower Upper
83 100
85 72.7 43.4 80.6



#31
Carbon tetrachloride
Concen: 0.299 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VU040878.D
Acq: 21 Oct 2020 17:08

Tgt Ion: 117 Resp: 8064
Ion Ratio Lower Upper
117 100
119 106.0 77.2 115.8

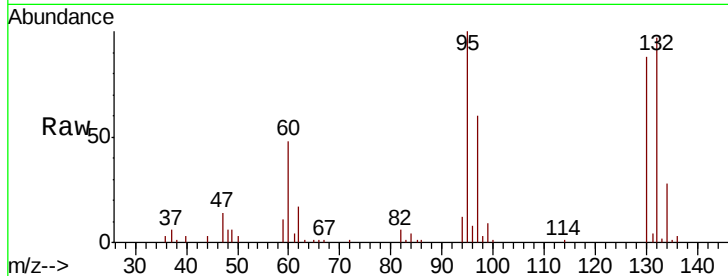




#34
 Trichloroethene
 Concen: 1.605 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040878.D
 Acq: 21 Oct 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK5

Tot Ion:	95	Resp:	31021
Ion	Ratio	Lower	Upper
95	100		
97	59.5	46.0	85.4
132	96.7	63.6	118.2
130	88.5	68.6	127.4



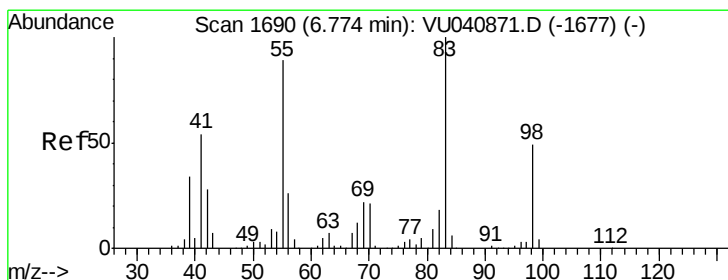
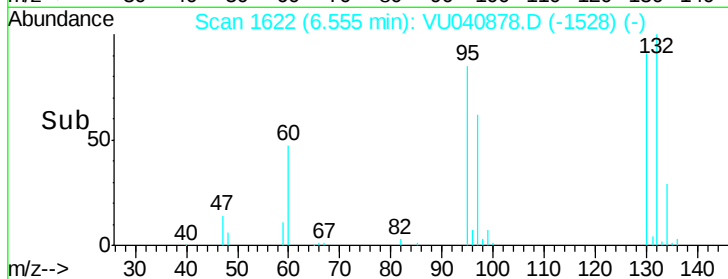
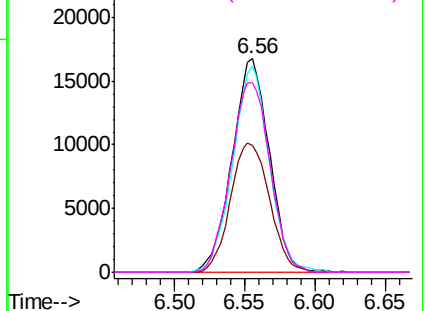
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

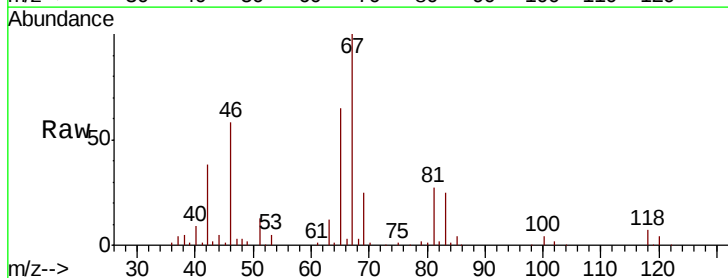
Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35
 Methylcyclohexane
 Concen: 0.869 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU040878.D
 Acq: 21 Oct 2020 17:08

Tgt Ion:	83	Resp:	25126
Ion	Ratio	Lower	Upper
83	100		
55	0.1	69.1	103.7#
98	0.6	37.8	56.6#

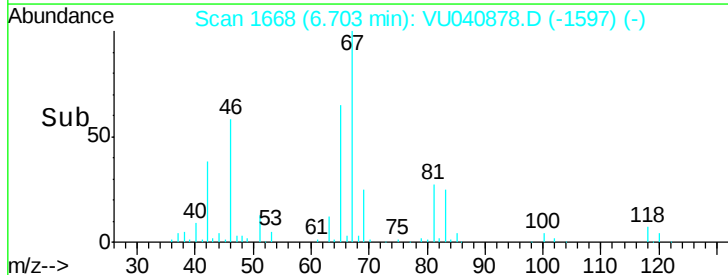
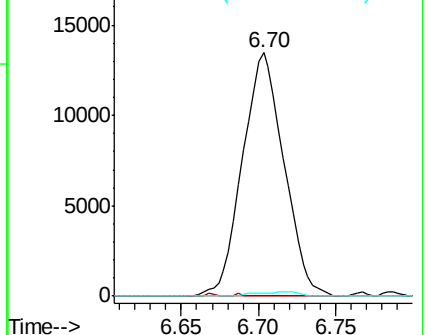


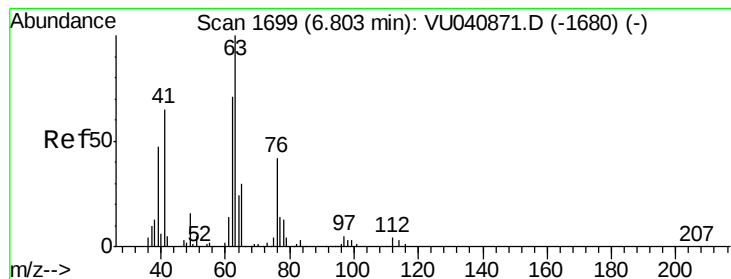
Abundance

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: 0.632 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

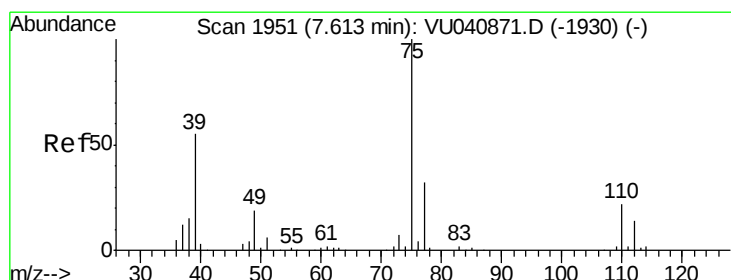
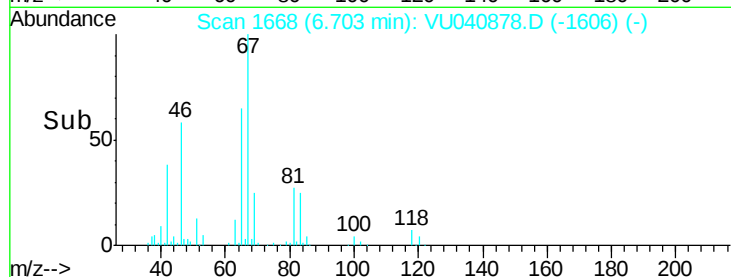
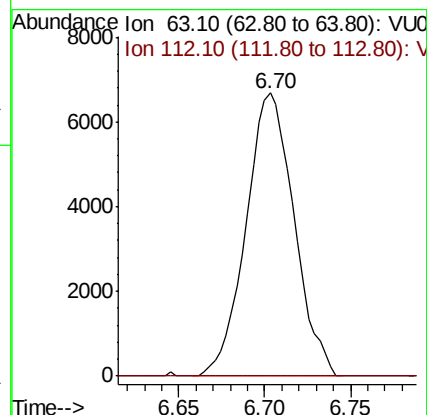
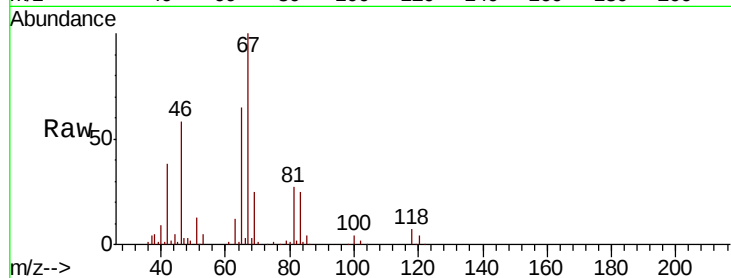
C0AK5

Tot Ion: 63 Resp: 12962

Ion Ratio Lower Upper

63 100

112 0.3 3.0 4.6#



#39

cis-1,3-Dichloropropene

Concen: 0.117 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU040878.D

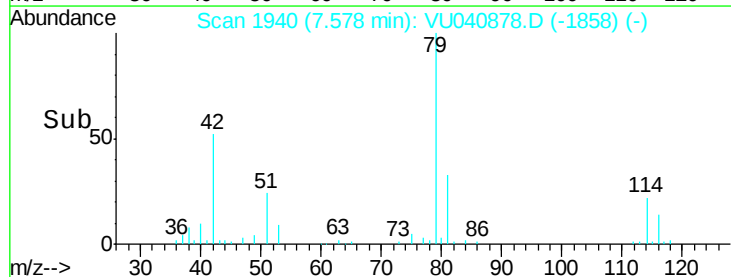
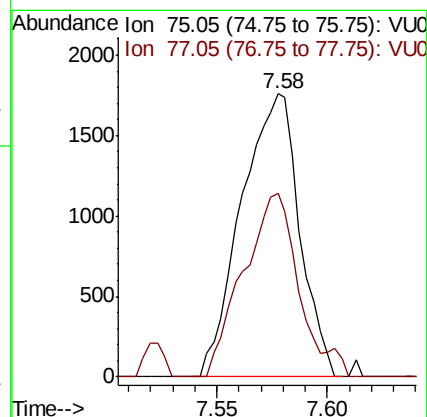
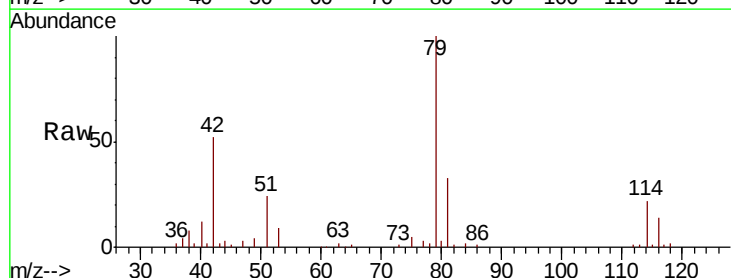
Acq: 21 Oct 2020 17:08

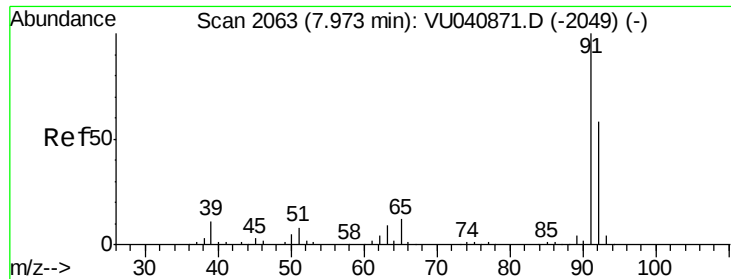
Tgt Ion: 75 Resp: 3217

Ion Ratio Lower Upper

75 100

77 64.8 21.6 40.2#





#42

Toluene

Concen: 0.038 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

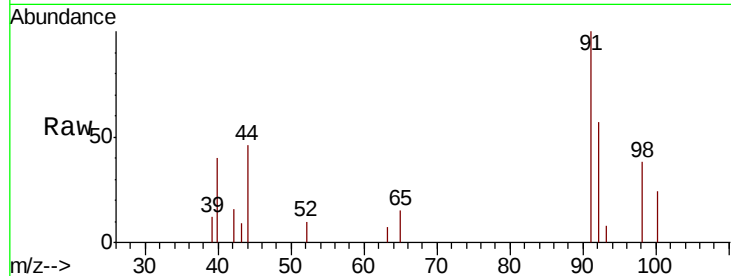
C0AK5

Tot Ion: 91 Resp: 2915

Ion Ratio Lower Upper

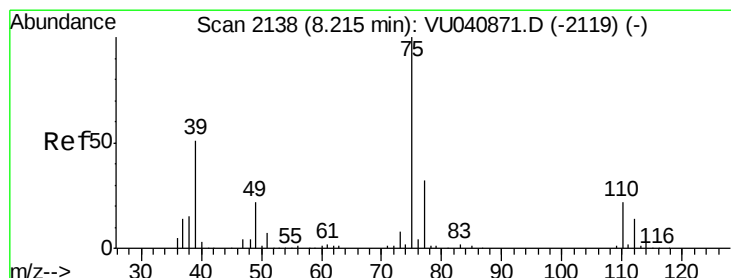
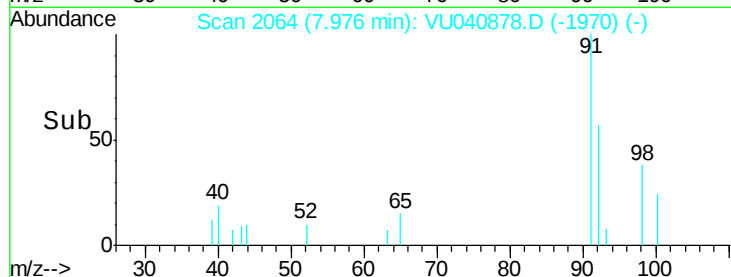
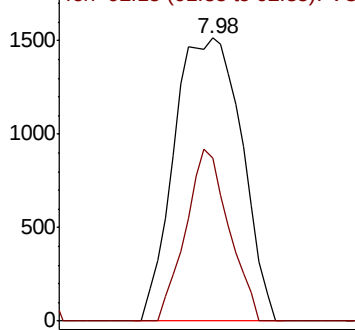
91 100

92 57.5 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.097 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040878.D

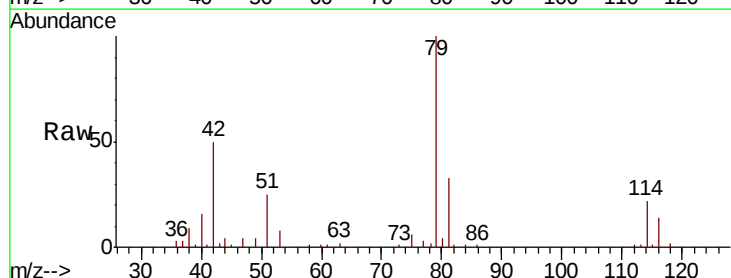
Acq: 21 Oct 2020 17:08

Tgt Ion: 75 Resp: 2398

Ion Ratio Lower Upper

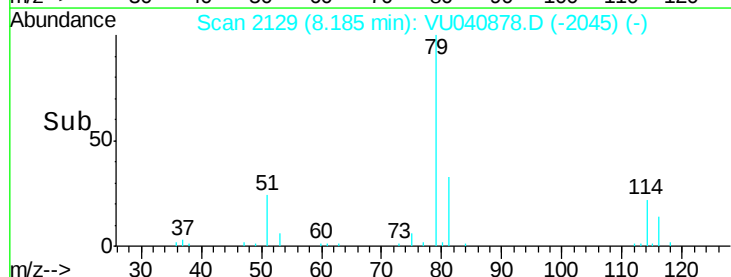
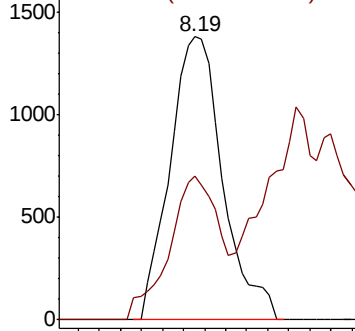
75 100

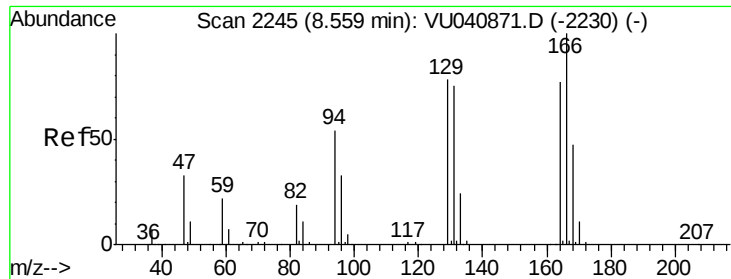
77 50.7 22.6 42.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#47

Tetrachloroethene

Concen: 3.004 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampled :

C0AK5

Tot Ion:164 Resp: 43205

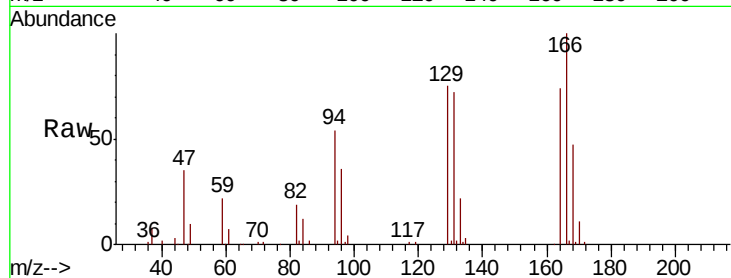
Ion Ratio Lower Upper

164 100

129 101.0 69.7 129.4

131 97.1 65.4 121.4

166 134.4 90.0 167.2

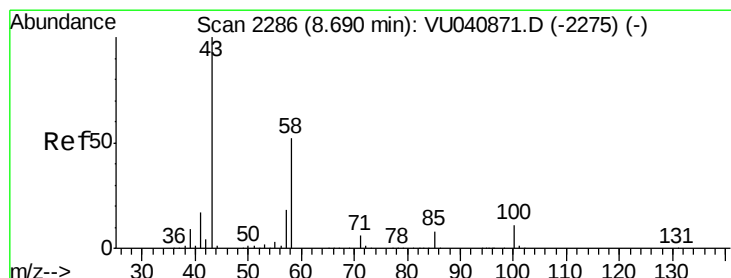
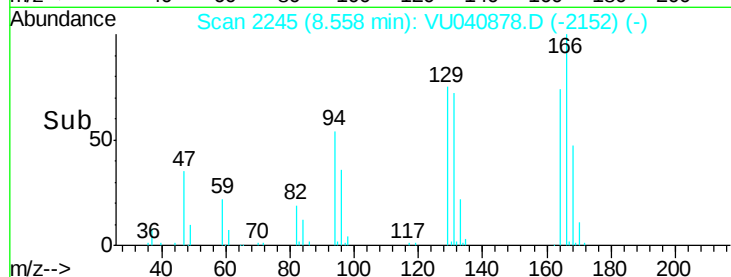
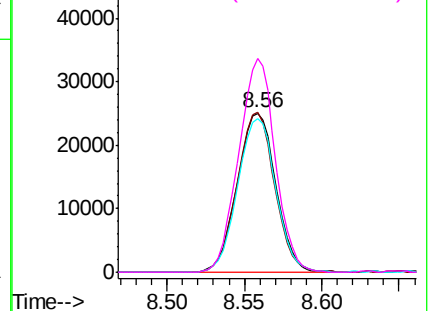


Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.633 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Tgt Ion: 43 Resp: 36358

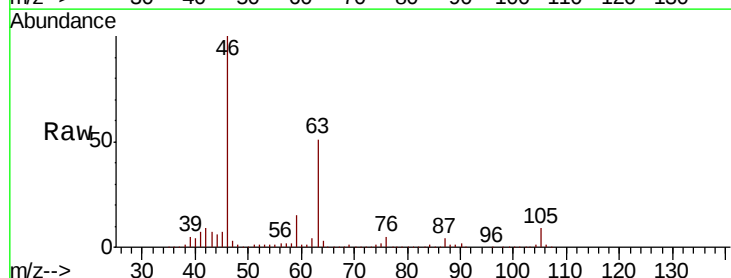
Ion Ratio Lower Upper

43 100

58 26.5 40.9 61.3#

57 30.1 14.4 21.6#

100 1.8 8.3 12.5#

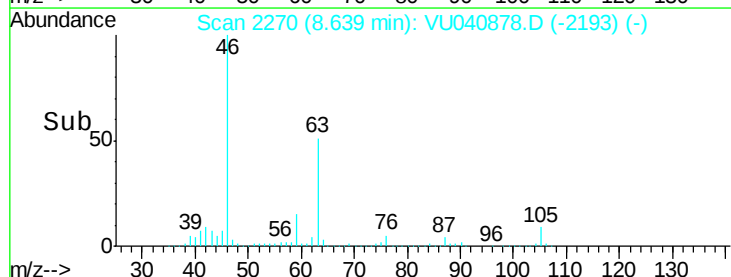
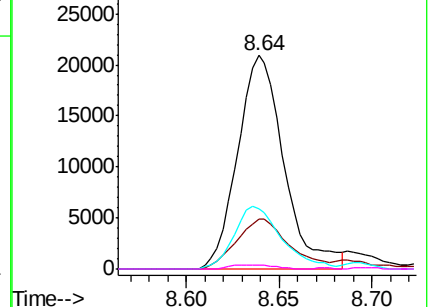


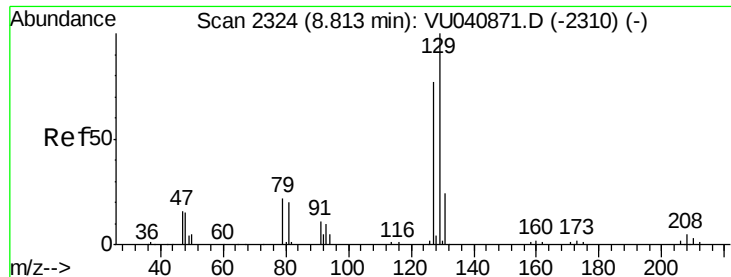
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 2.540 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040878.D

Acq: 21 Oct 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

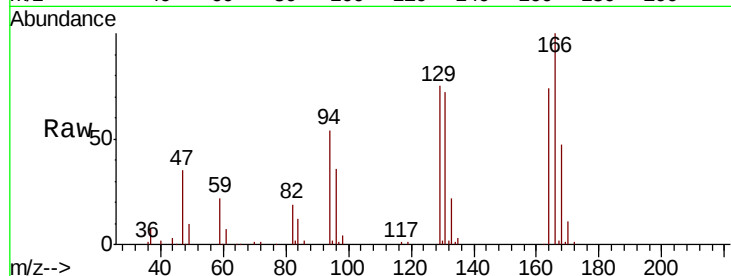
C0AK5

Tot Ion:129 Resp: 42332

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

25000

20000

15000

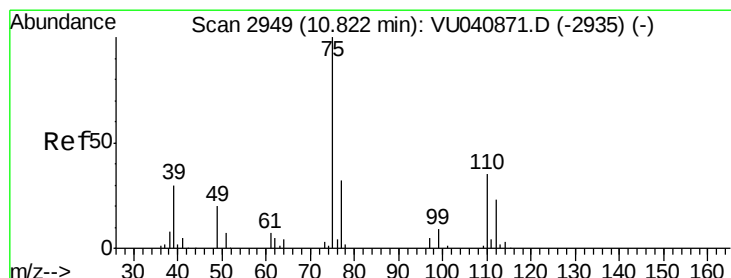
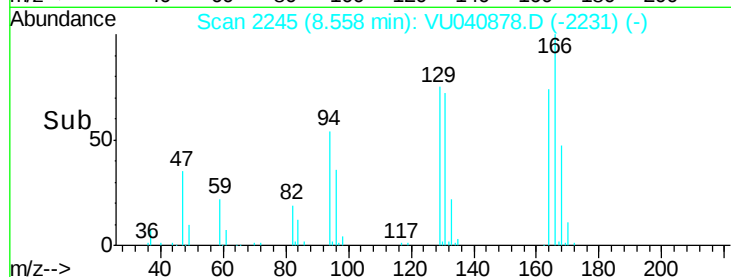
10000

5000

0

Time-->

8.50 8.55 8.60 8.65



#59

1,2,3-Trichloropropane

Concen: 1.017 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040878.D

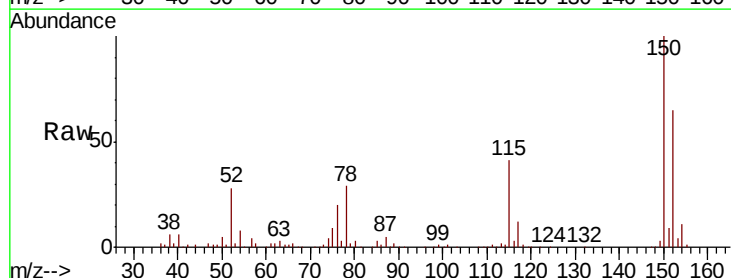
Acq: 21 Oct 2020 17:08

Tgt Ion: 75 Resp: 13551

Ion Ratio Lower Upper

75 100

77 38.6 27.5 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

10000

8000

6000

4000

2000

0

Time-->

11.75 11.80 11.85

