

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041875.D
 Acq On : 07 Jan 2021 16:17
 Operator : SY/MD
 Sample : M1026-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 04:59:59 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	134100	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	129413	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54671	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	43240	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.92	69	45869	5.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	113.00%
11) 1,1-Dichloroethene-d2	2.58	63	78945	4.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.80%
20) 2-Butanone-d5	4.66	46	185451	61.58	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.16%
24) Chloroform-d	5.08	84	104020	5.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	115.80%
26) 1,2-Dichloroethane-d4	5.72	65	58425	5.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.60%
32) Benzene-d6	5.74	84	188637	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.80%
36) 1,2-Dichloropropane-d6	6.70	67	59708	5.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.80%
41) Toluene-d8	7.90	98	144976	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
43) trans-1,3-Dichloropropene-	8.18	79	23214	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
46) 2-Hexanone-d5	8.64	63	142498	49.90	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.80%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	56121	5.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	55626	5.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	1105	0.097	ug/L #	74
3) Chloromethane	1.52	50	889	0.081	ug/L	92
9) Trichlorofluoromethane	2.15	101	5878554	381.089	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	99475	10.783	ug/L	98
12) 1,1-Dichloroethene	2.59	96	24952	2.743	ug/L #	75
13) Acetone	2.68	43	2678	1.398	ug/L	96
15) Methyl Acetate	2.98	43	519	0.104	ug/L #	51
16) Methylene chloride	3.06	84	2573	0.237	ug/L	93
17) Methyl tert-butyl Ether	3.38	73	183402	7.556	ug/L	99
19) 1,1-Dichloroethane	3.89	63	125831	7.155	ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	4582	0.441	ug/L	76
25) Chloroform	5.10	83	11001	0.621	ug/L	88
27) 1,2-Dichloroethane	5.81	62	1752	0.146	ug/L #	73
29) 1,1,1-Trichloroethane	5.34	97	11420	0.768	ug/L	97
31) Carbon tetrachloride	5.53	117	1408	0.110	ug/L	82
34) Trichloroethene	6.55	95	50958	4.900	ug/L	97
35) Methylcyclohexane	6.70	83	15067	0.896	ug/L #	19

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ClientSampleId :

Quant Time: Jan 08 04:59:59 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

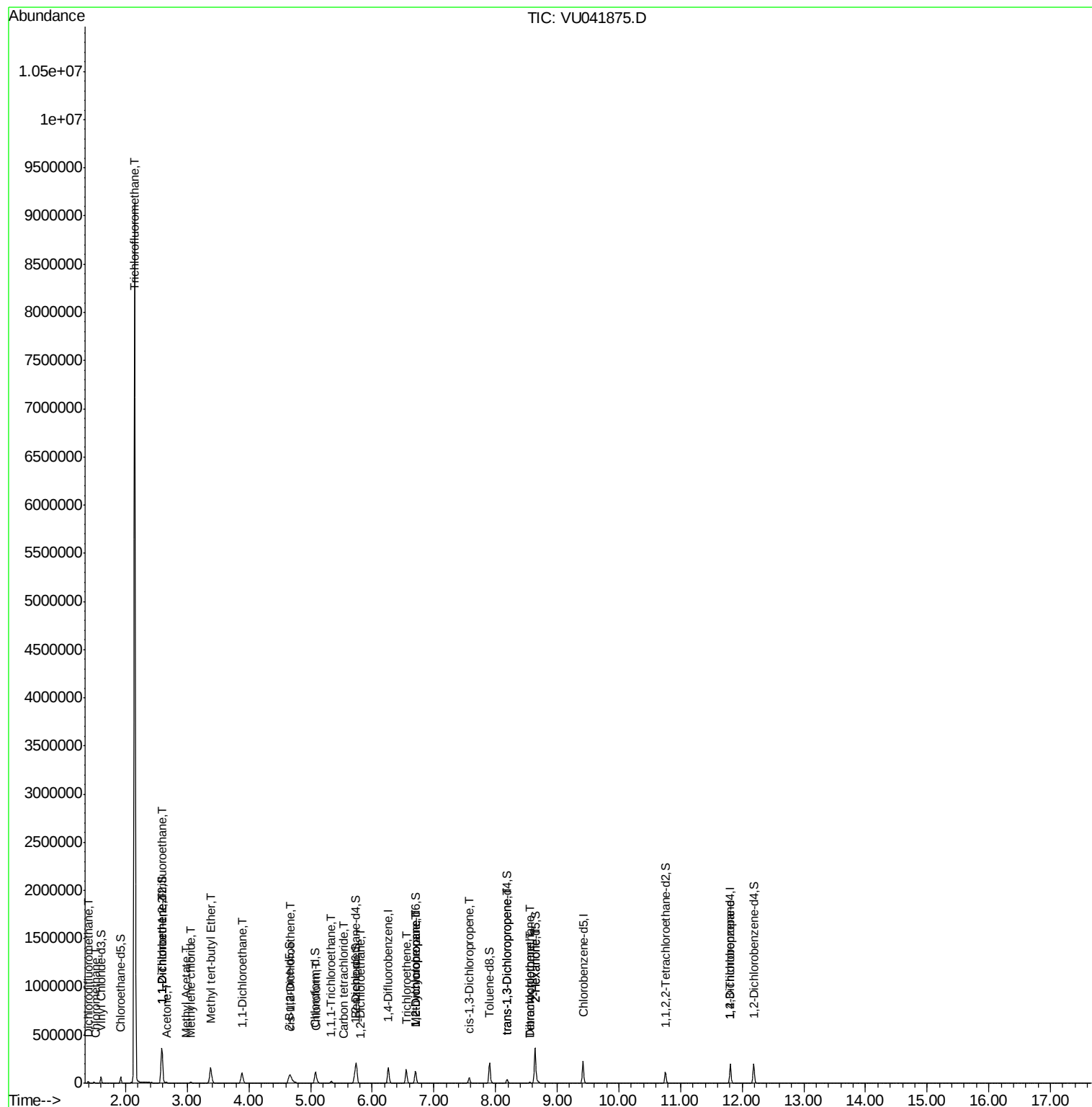
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	6340	0.599	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1364	0.087	ug/L #	62
44) trans-1,3-Dichloropropene	8.18	75	884	0.063	ug/L	83
47) Tetrachloroethene	8.56	164	1946	0.267	ug/L	93
48) 2-Hexanone	8.64	43	17067	3.113	ug/L #	65
49) Dibromochloromethane	8.56	129	1649	0.183	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6639	0.835	ug/L	99

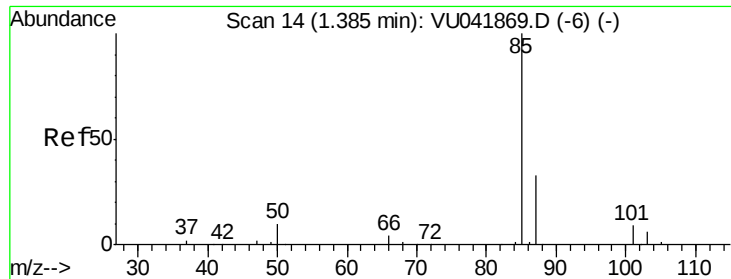
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.097 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

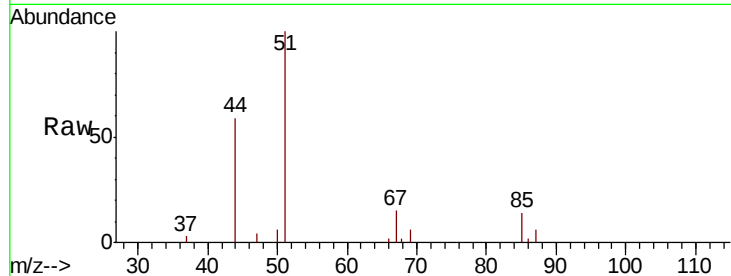
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 1105

Ion Ratio Lower Upper

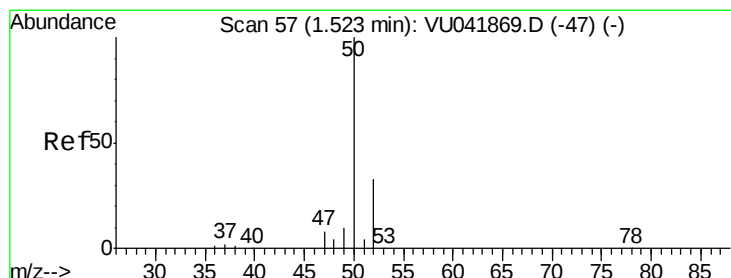
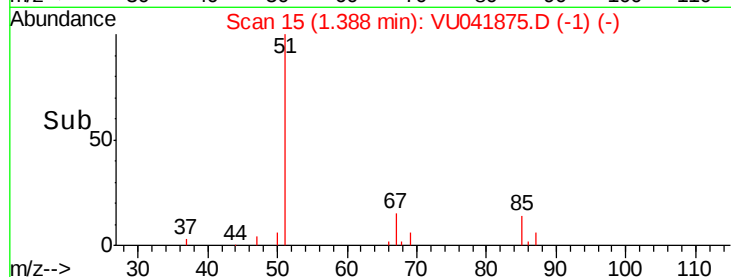
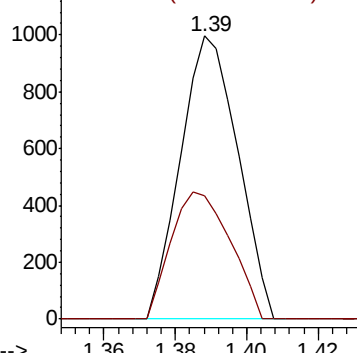
85 100

87 46.5 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.081 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041875.D

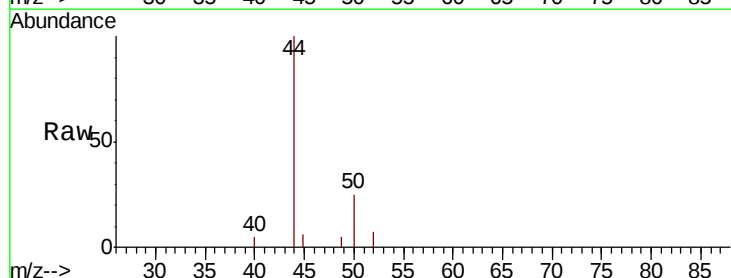
Acq: 07 Jan 2021 16:17

Tgt Ion: 50 Resp: 889

Ion Ratio Lower Upper

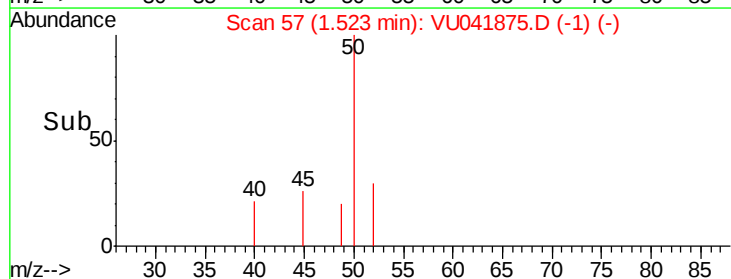
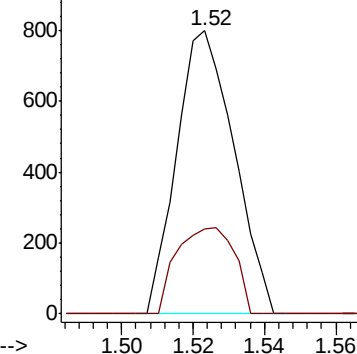
50 100

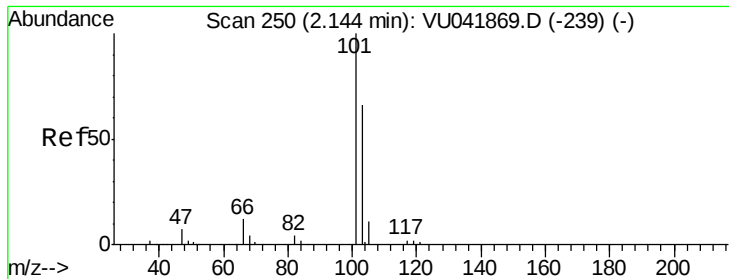
52 29.8 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



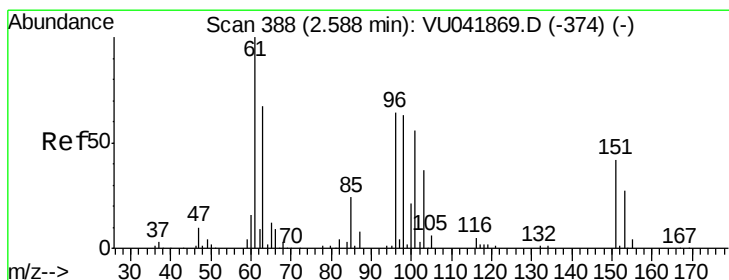
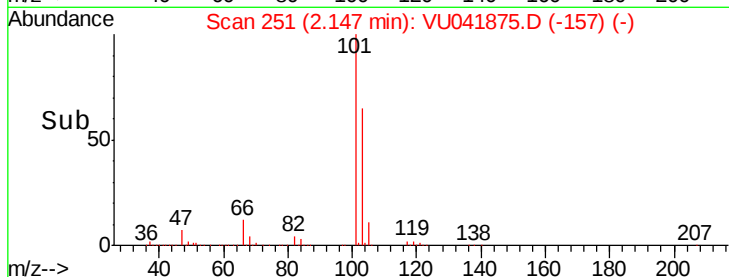
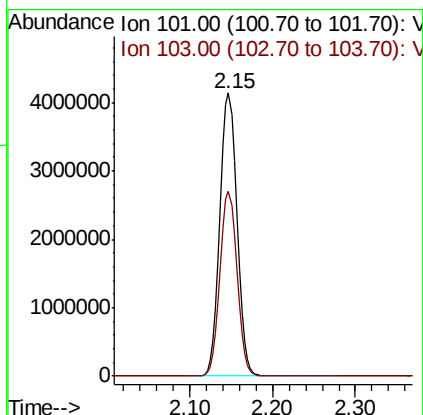
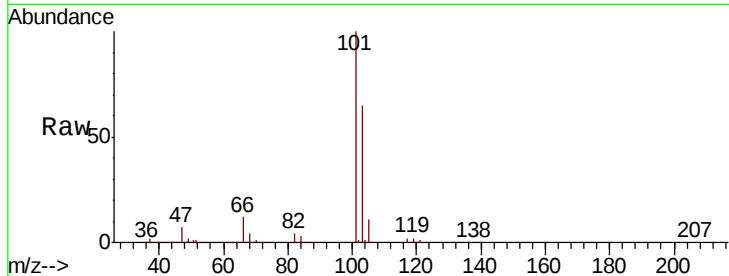


#9

Trichlorofluoromethane
 Concen: 381.089 ug/L
 RT: 2.15 min Scan# 251
 Delta R.T. 0.00 min
 Lab File: VU041875.D
 Acq: 07 Jan 2021 16:17

Instrument :
 MSVOA_U
 ClientSampleId :

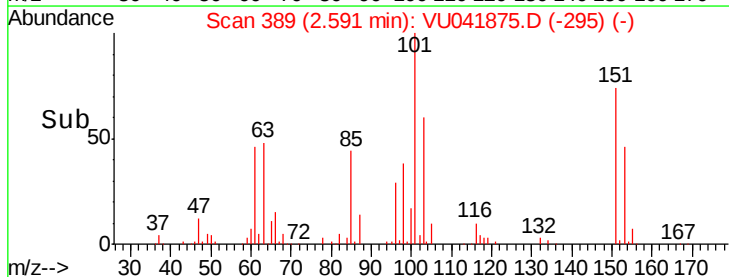
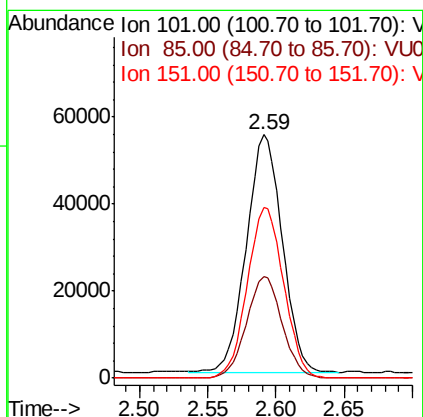
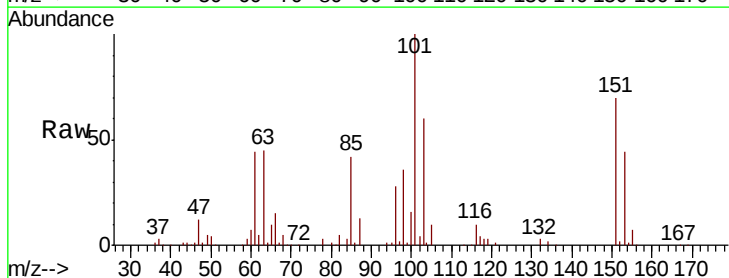
Tot Ion:101 Resp: 5878554
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.1 76.7

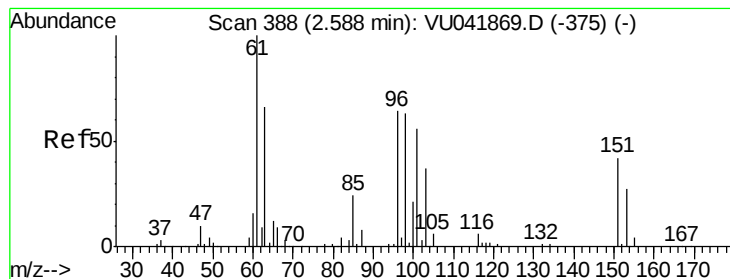


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 10.783 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VU041875.D
 Acq: 07 Jan 2021 16:17

Tgt Ion:101 Resp: 99475
 Ion Ratio Lower Upper
 101 100
 85 42.7 33.6 50.4
 151 72.9 56.2 84.4





#12

1,1-Dichloroethene

Concen: 2.743 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

Instrument :

MSVOA_U

ClientSampleId :

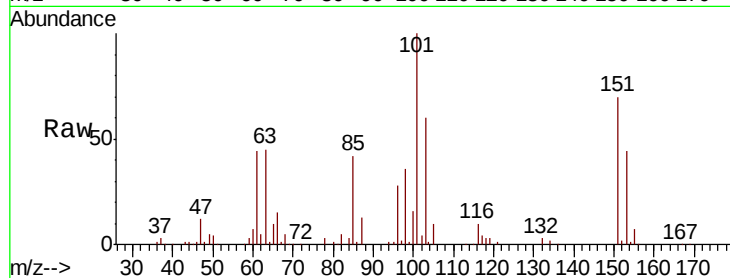
Tot Ion: 96 Resp: 24952

Ion Ratio Lower Upper

96 100

61 158.2 123.8 230.0

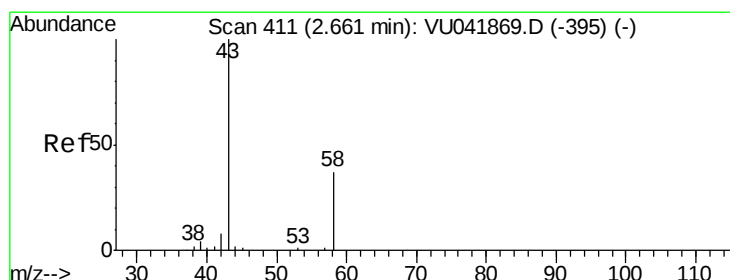
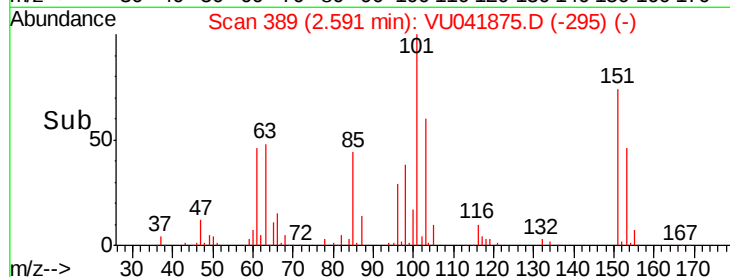
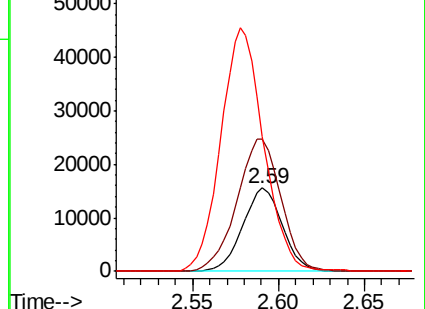
63 162.4 81.0 150.4#



Abundance Ion 96.00 (95.70 to 96.70): VU041869.D (-375) (-)

Ion 61.05 (60.75 to 61.75): VU041869.D (-375) (-)

Ion 63.00 (62.70 to 63.70): VU041869.D (-375) (-)



#13

Acetone

Concen: 1.398 ug/L

RT: 2.68 min Scan# 417

Delta R.T. 0.02 min

Lab File: VU041875.D

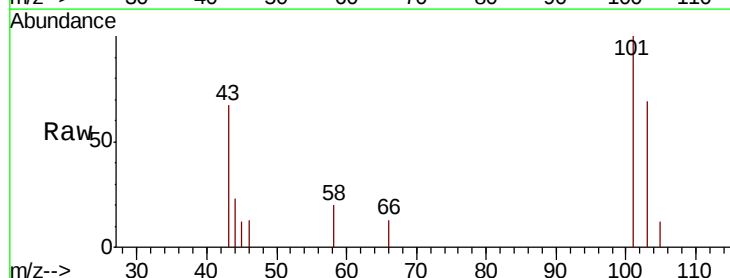
Acq: 07 Jan 2021 16:17

Tgt Ion: 43 Resp: 2678

Ion Ratio Lower Upper

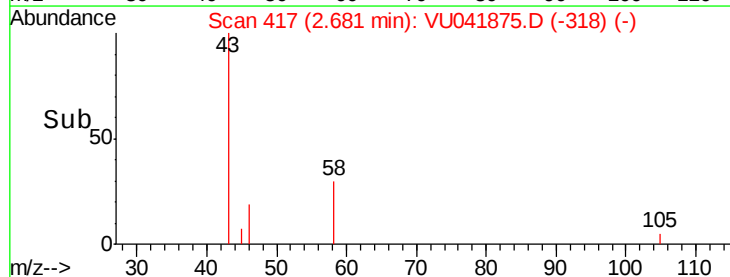
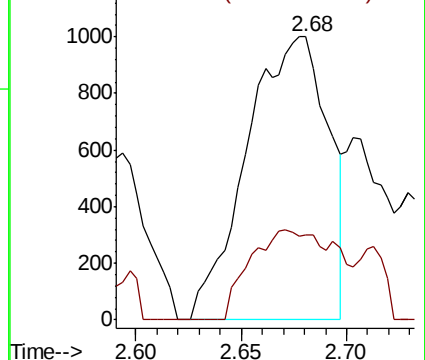
43 100

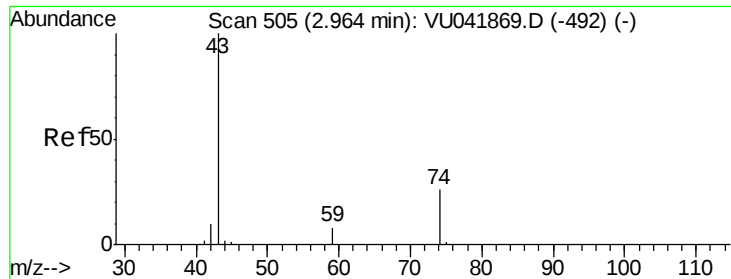
58 34.0 0.0 73.2



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

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

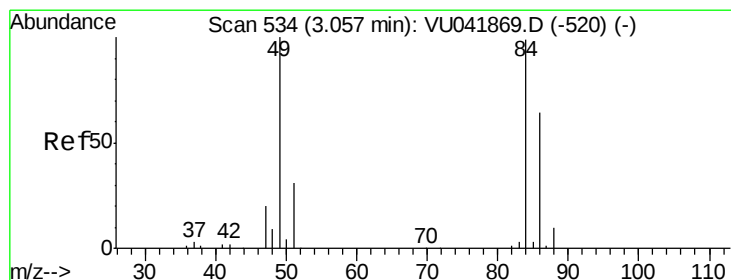
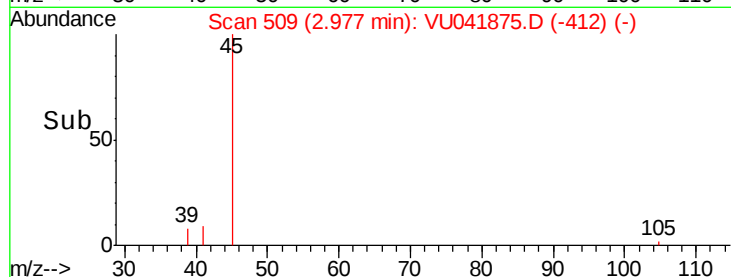
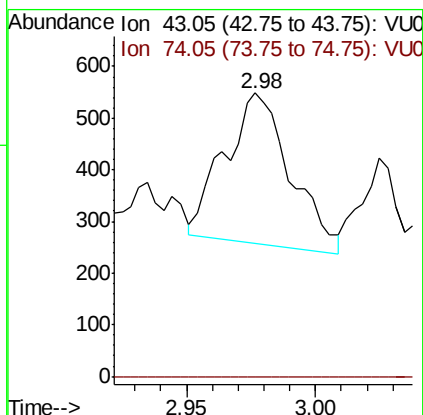
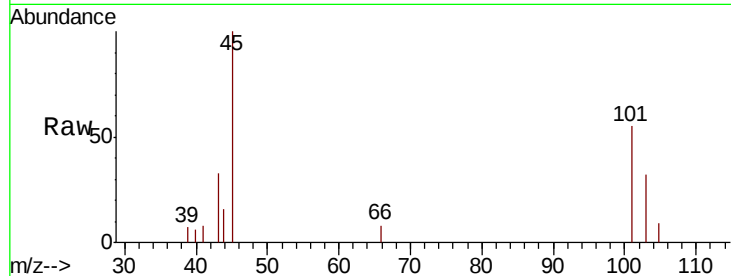




#15
Methyl Acetate
Concen: 0.104 ug/L
RT: 2.98 min Scan# 509
Delta R.T. 0.01 min
Lab File: VU041875.D
Acq: 07 Jan 2021 16:17

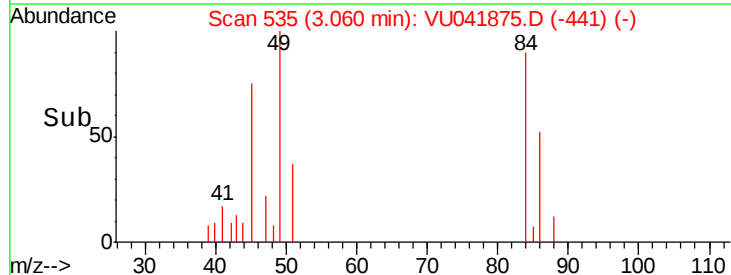
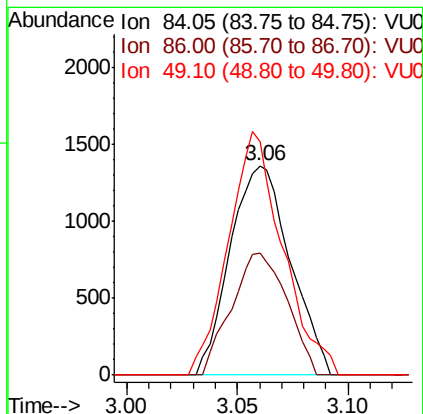
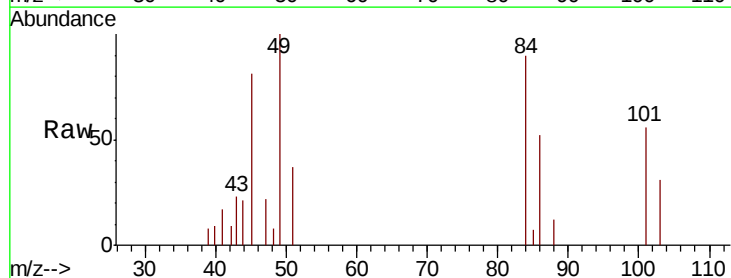
Instrument :
MSVOA_U
ClientSampled :

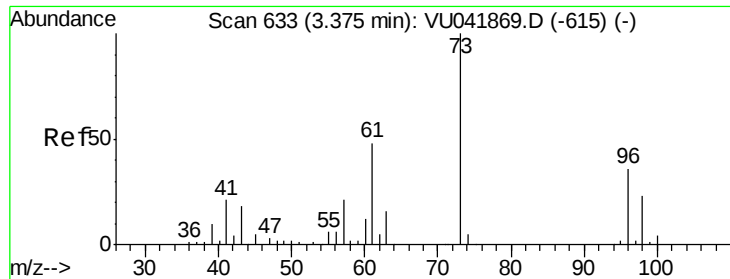
Tot Ion: 43 Resp: 519
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#16
Methylene chloride
Concen: 0.237 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041875.D
Acq: 07 Jan 2021 16:17

Tgt Ion: 84 Resp: 2573
Ion Ratio Lower Upper
84 100
86 58.3 45.1 83.7
49 111.7 83.1 154.3

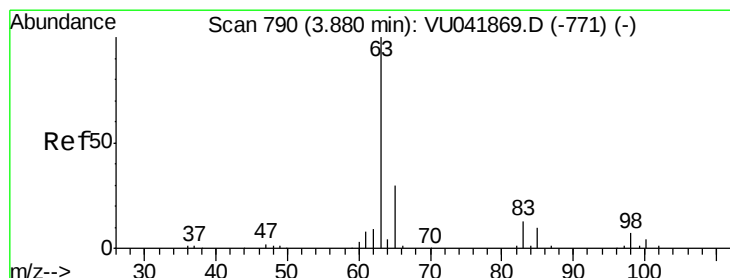
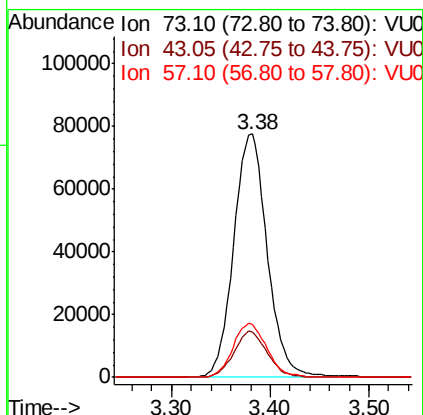
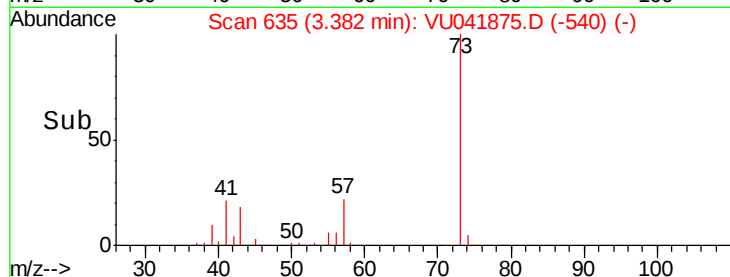
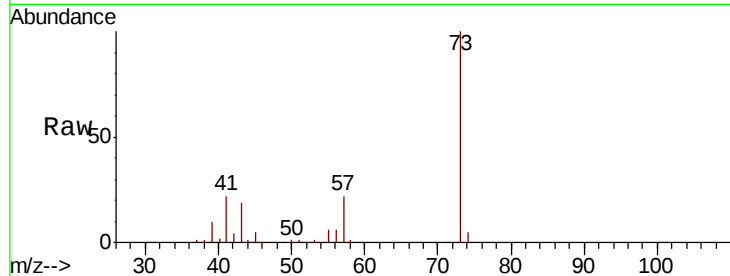




#17
Methvl tert-butvl Ether
Concen: 7.556 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.01 min
Lab File: VU041875.D
Acq: 07 Jan 2021 16:17

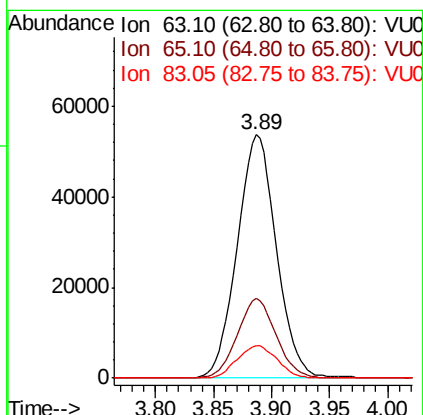
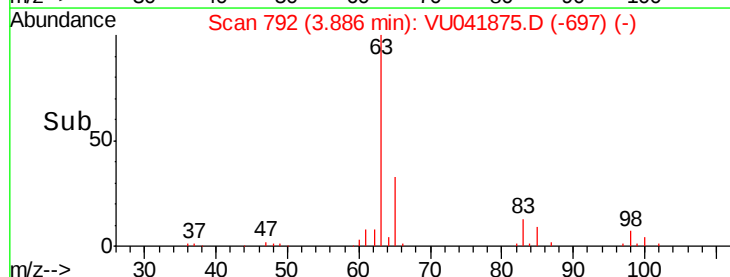
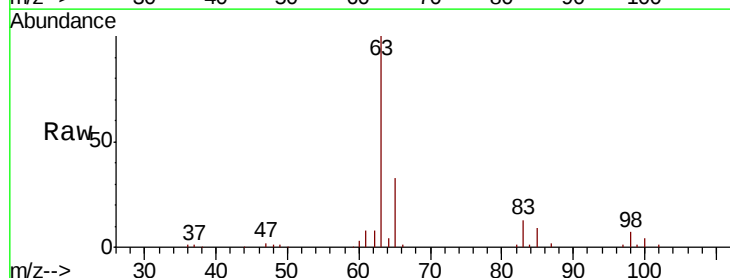
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MSVOA_U
ClientSampled :

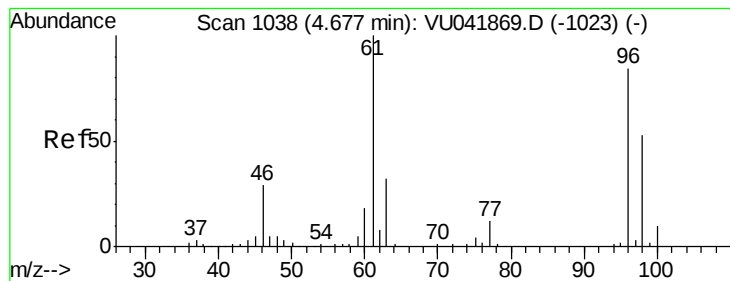
Tot Ion: 73 Resp: 183402
Ion Ratio Lower Upper
73 100
43 18.7 14.7 22.1
57 22.4 18.2 27.4



#19
1,1-Dichloroethane
Concen: 7.155 ug/L
RT: 3.89 min Scan# 792
Delta R.T. 0.01 min
Lab File: VU041875.D
Acq: 07 Jan 2021 16:17

Tgt Ion: 63 Resp: 125831
Ion Ratio Lower Upper
63 100
65 32.5 21.3 39.6
83 13.3 9.3 17.3





#22

cis-1,2-Dichloroethene

Concen: 0.441 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

Instrument :

MSVOA_U

ClientSampleId :

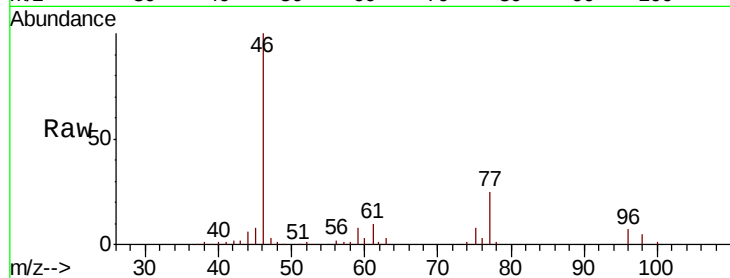
Tot Ion: 96 Resp: 4582

Ion Ratio Lower Upper

96 100

61 154.6 88.8 165.0

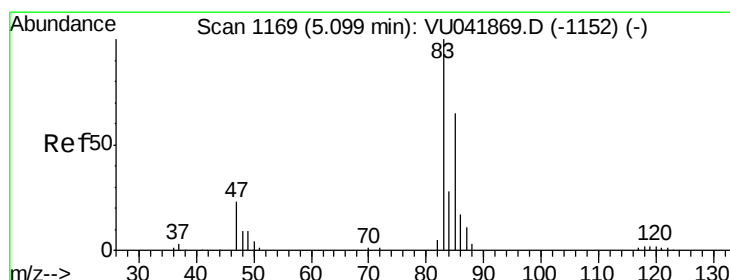
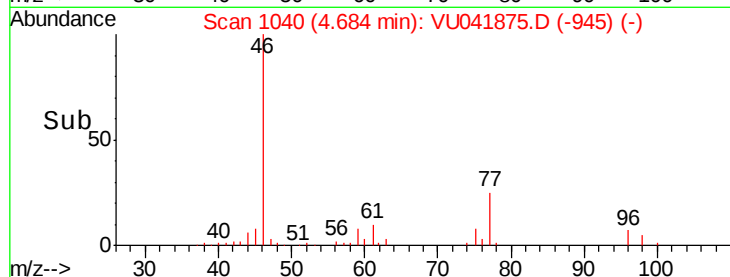
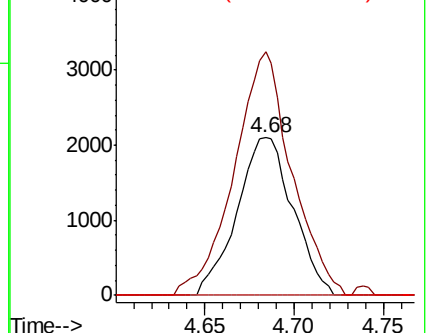
68 0.0 0.0 0.0



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: 0.621 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VU041875.D

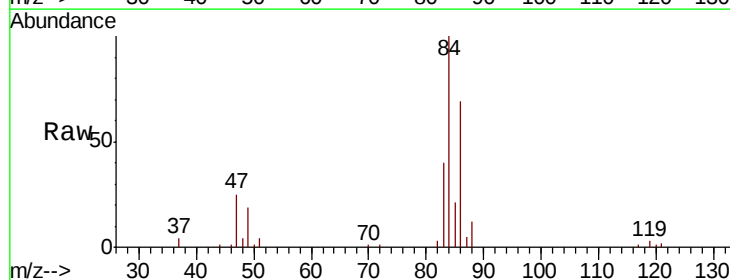
Acq: 07 Jan 2021 16:17

Tgt Ion: 83 Resp: 11001

Ion Ratio Lower Upper

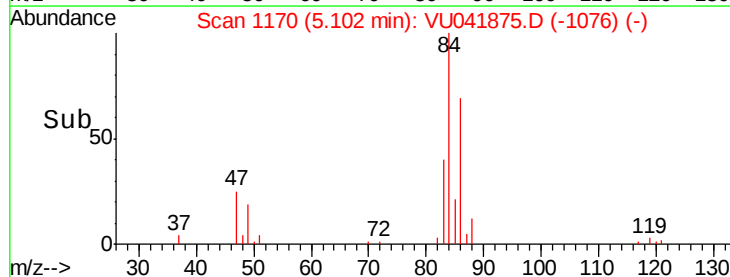
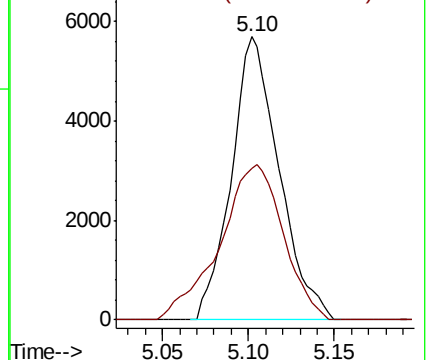
83 100

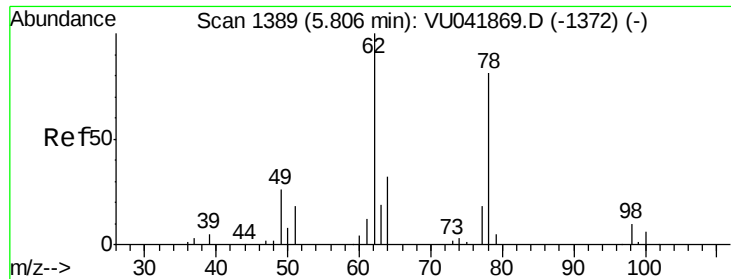
85 53.6 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

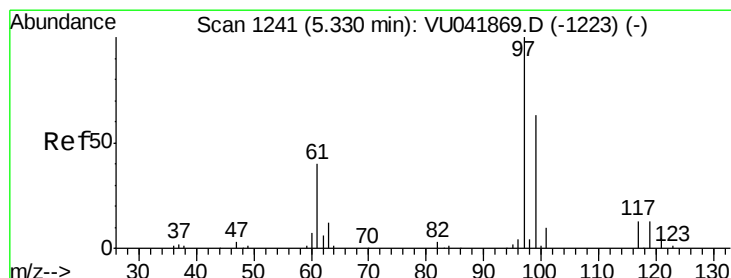
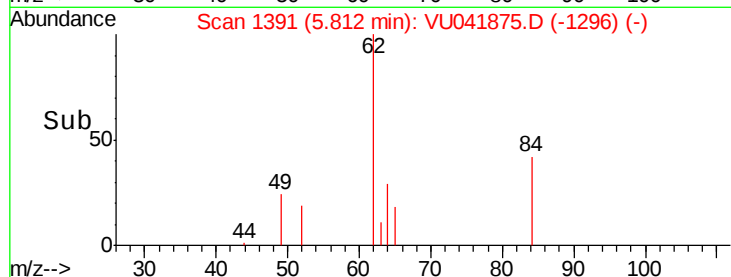
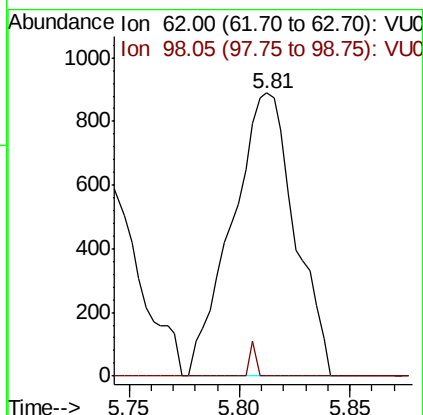
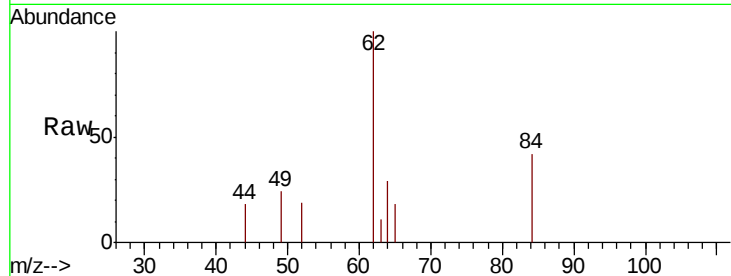




#27
 1,2-Dichloroethane
 Concen: 0.146 ug/L
 RT: 5.81 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VU041875.D
 Acq: 07 Jan 2021 16:17

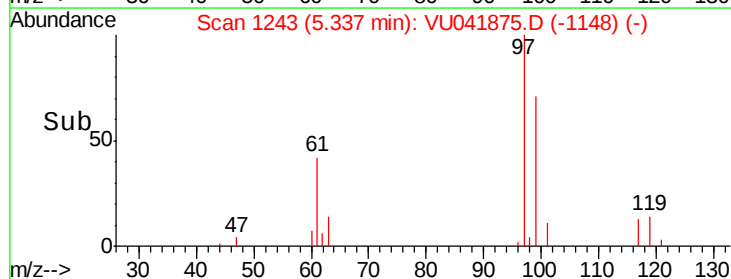
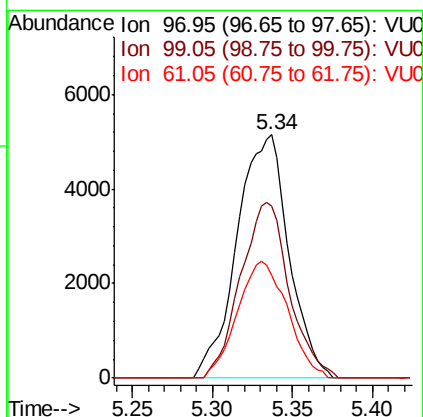
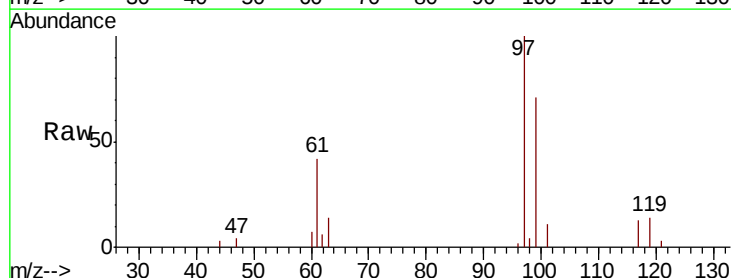
Instrument :
 MSVOA_U
 ClientSampleId :

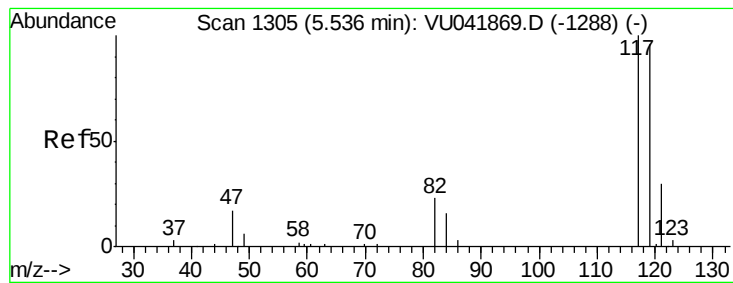
Tot Ion: 62 Resp: 1752
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.2#



#29
 1,1,1-Trichloroethane
 Concen: 0.768 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.01 min
 Lab File: VU041875.D
 Acq: 07 Jan 2021 16:17

Tgt Ion: 97 Resp: 11420
 Ion Ratio Lower Upper
 97 100
 99 67.9 51.3 76.9
 61 46.3 36.5 54.7





#31

Carbon tetrachloride

Concen: 0.110 ug/L

RT: 5.53 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

Instrument :

MSVOA_U

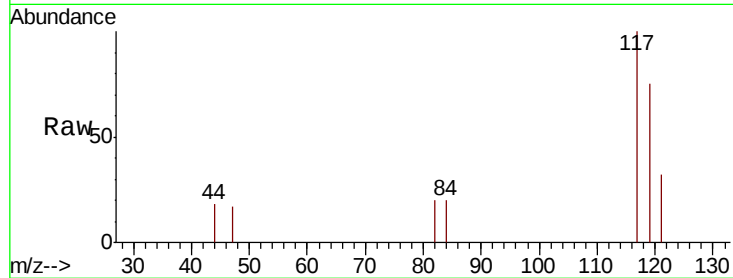
ClientSampleId :

Tot Ion:117 Resp: 1408

Ion Ratio Lower Upper

117 100

119 112.8 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.53

800

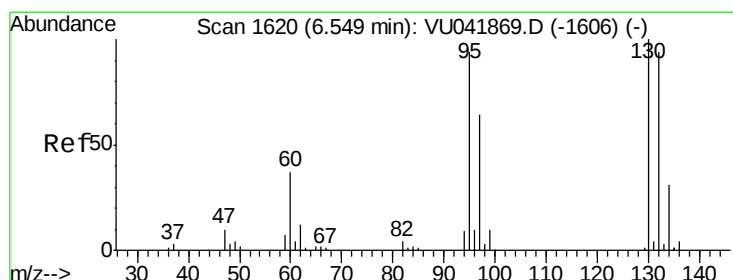
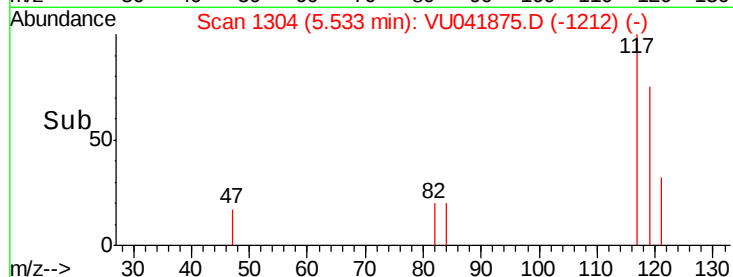
600

400

200

0

Time-->



#34

Trichloroethene

Concen: 4.900 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

Tgt Ion: 95 Resp: 50958

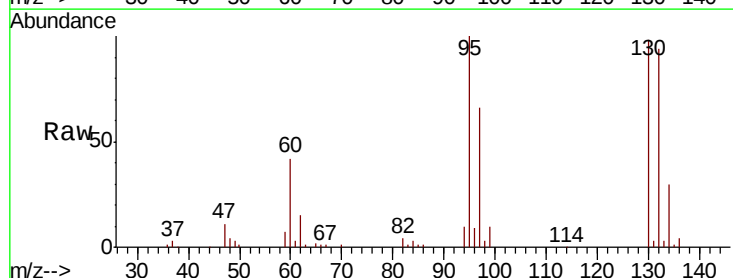
Ion Ratio Lower Upper

95 100

97 65.7 43.9 81.5

132 94.4 63.1 117.3

130 97.7 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

40000

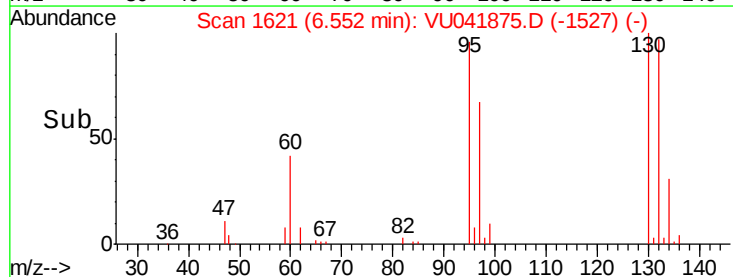
30000

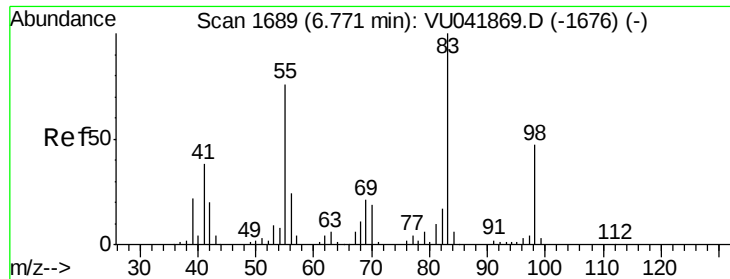
20000

10000

0

Time-->

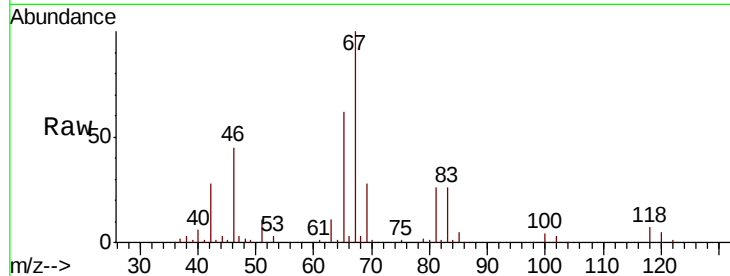




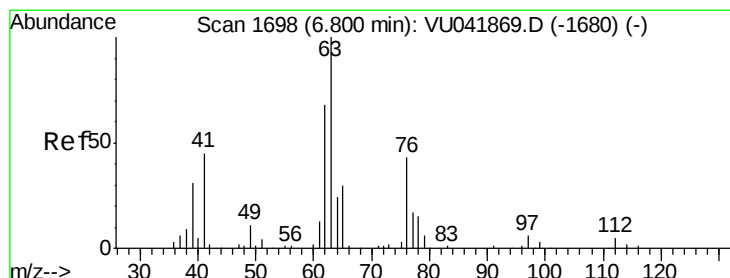
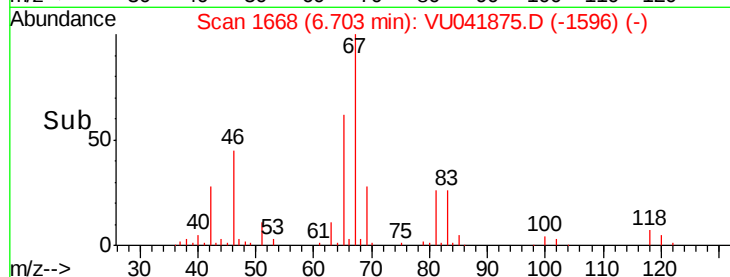
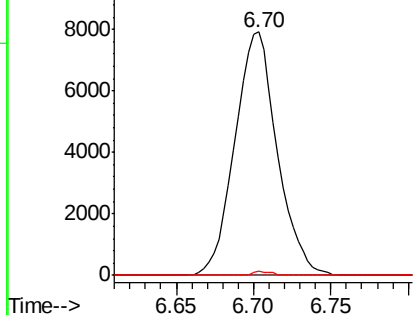
#35
Methvlcvclohexane
Concen: 0.896 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041875.D
Acq: 07 Jan 2021 16:17

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.2	91.8#
98	0.7	36.6	54.8#

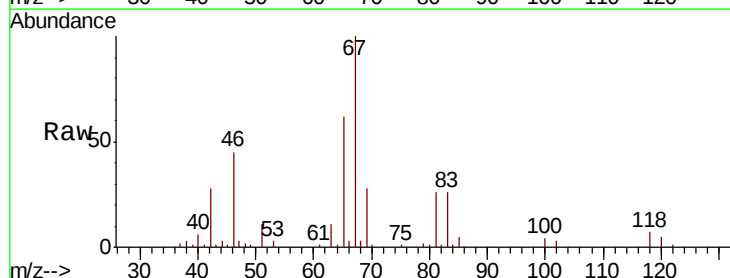


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

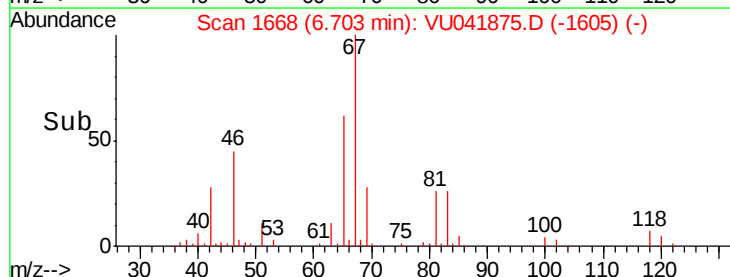
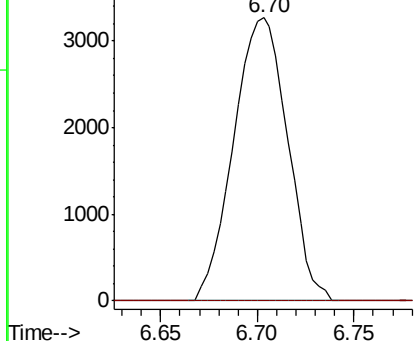


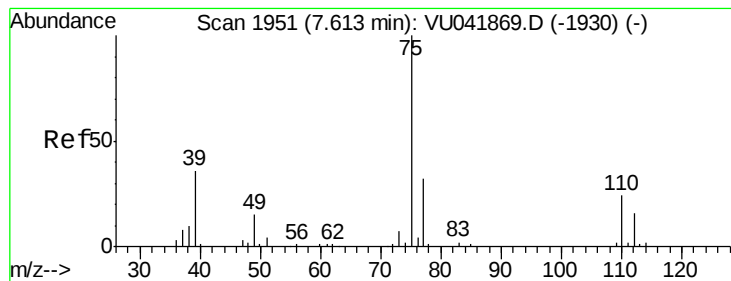
#37
1,2-Dichloropropane
Concen: 0.599 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041875.D
Acq: 07 Jan 2021 16:17

Tgt 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



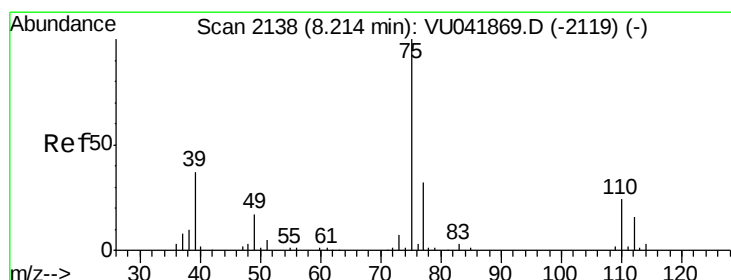
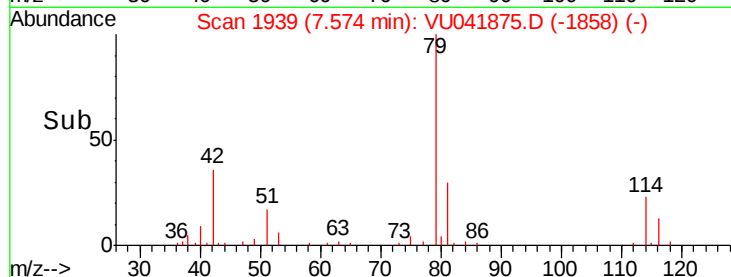
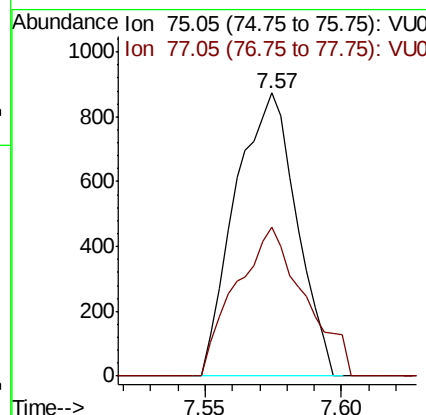
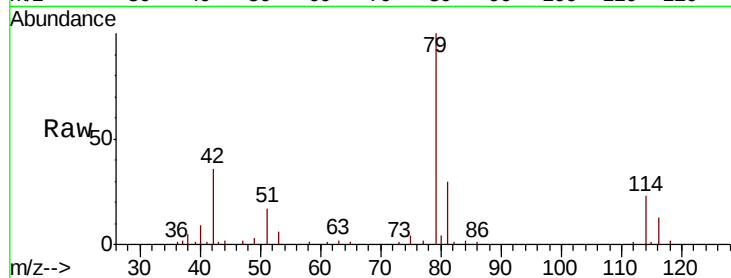


#39

cis-1,3-Dichloropropene
 Concen: 0.087 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041875.D
 Acq: 07 Jan 2021 16:17

Instrument :
 MSVOA_U
 ClientSampleId :

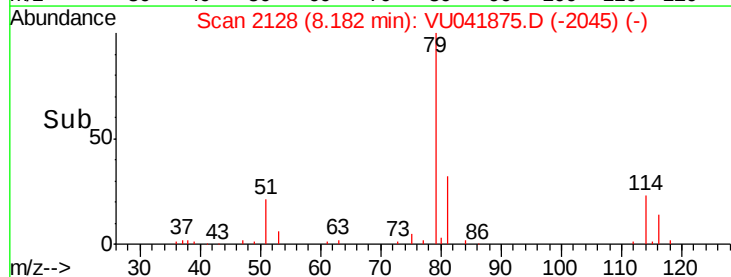
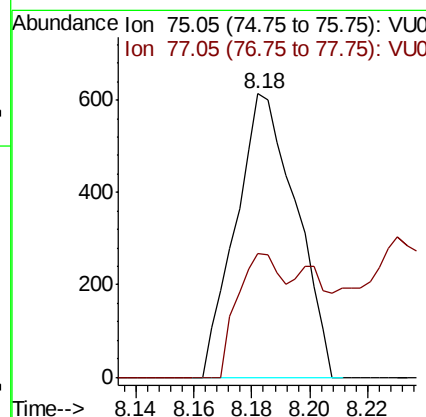
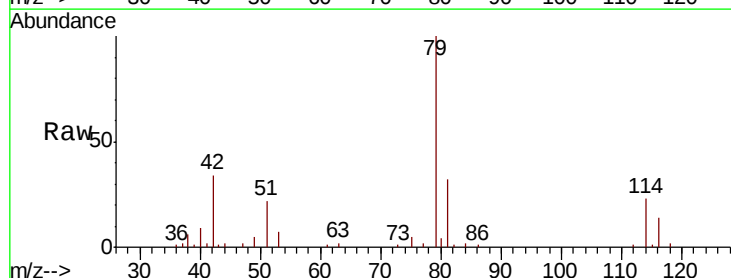
Tot Ion: 75 Resp: 1364
 Ion Ratio Lower Upper
 75 100
 77 52.7 22.3 41.3#

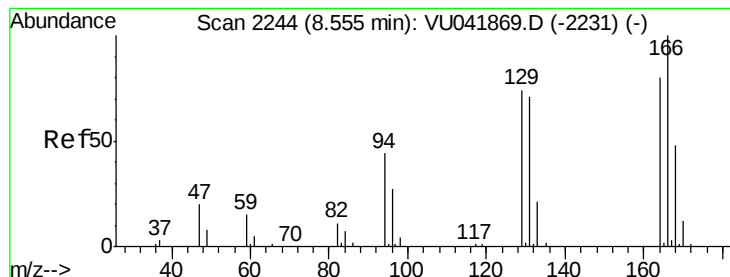


#44

trans-1,3-Dichloropropene
 Concen: 0.063 ug/L
 RT: 8.18 min Scan# 2128
 Delta R.T. -0.03 min
 Lab File: VU041875.D
 Acq: 07 Jan 2021 16:17

Tgt Ion: 75 Resp: 884
 Ion Ratio Lower Upper
 75 100
 77 43.7 23.8 44.2





#47

Tetrachloroethene

Concen: 0.267 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 1946

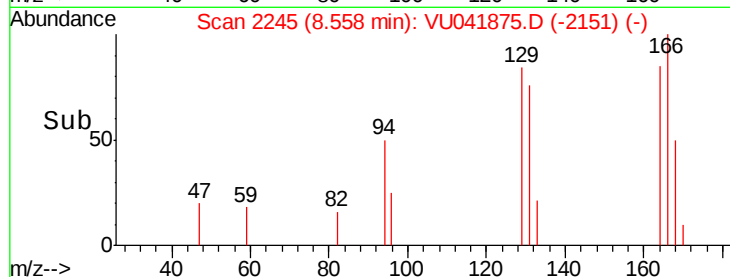
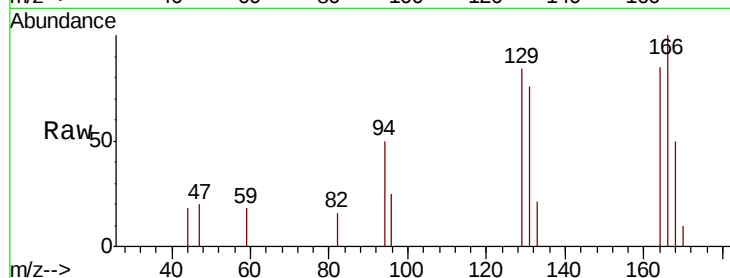
Ion Ratio Lower Upper

164 100

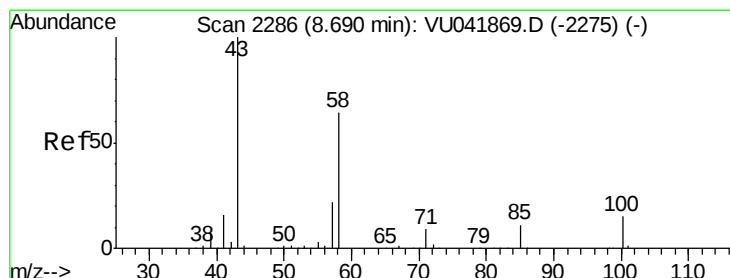
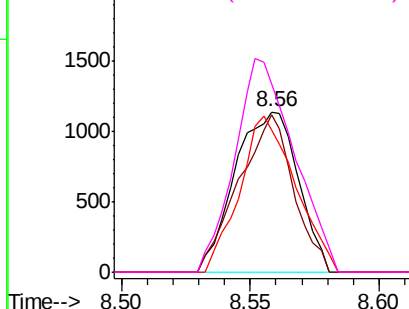
129 98.2 72.2 134.0

131 88.8 66.9 124.3

166 117.5 89.6 166.4



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: 3.113 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

Tgt Ion: 43 Resp: 17067

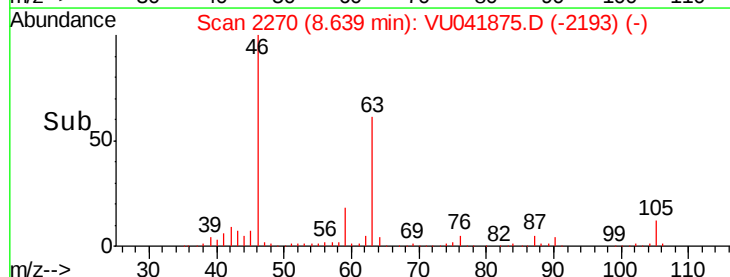
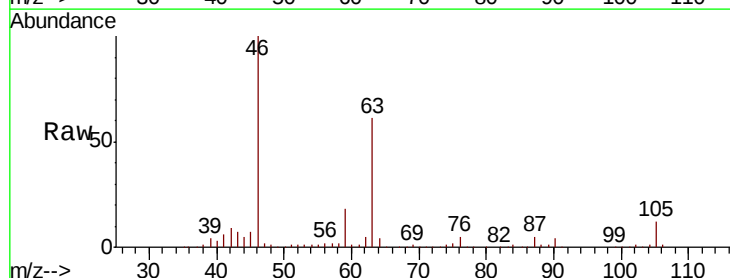
Ion Ratio Lower Upper

43 100

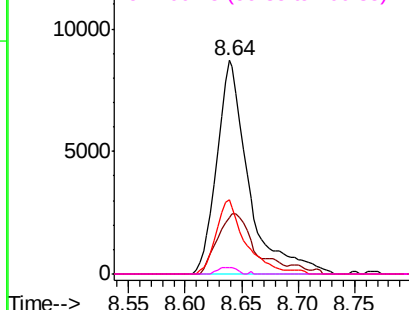
58 29.1 47.9 71.9#

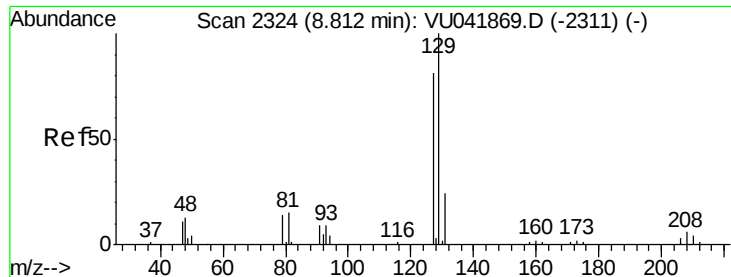
57 32.2 16.5 24.7#

100 1.8 9.4 14.2#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.183 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041875.D

Acq: 07 Jan 2021 16:17

Instrument :

MSVOA_U

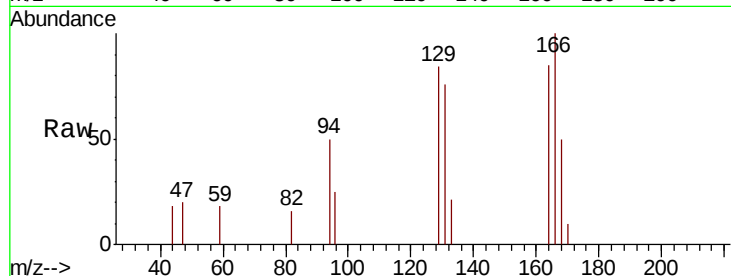
ClientSampleId :

Tot Ion:129 Resp: 1649

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

8.56

1200

1000

800

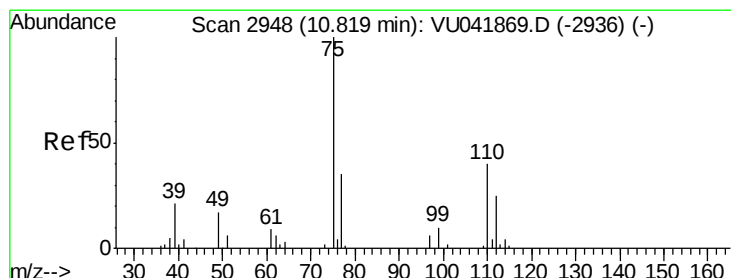
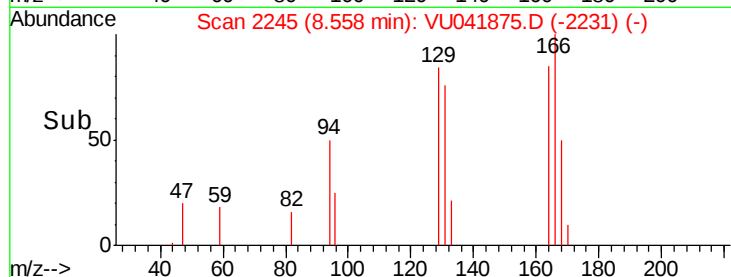
600

400

200

0

Time--> 8.50 8.55 8.60



#59

1,2,3-Trichloropropane

Concen: 0.835 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041875.D

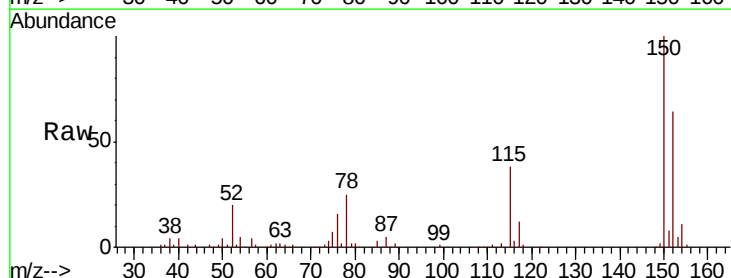
Acq: 07 Jan 2021 16:17

Tgt Ion: 75 Resp: 6639

Ion Ratio Lower Upper

75 100

77 32.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

4000

3000

2000

1000

0

Time--> 11.75 11.80 11.85

