

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102120\
 Data File : VU040877.D
 Acq On : 21 Oct 2020 16:44
 Operator : SY/MD
 Sample : L4420-08DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ8DL

Quant Time: Oct 22 00:50:56 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	237058	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	246721	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	102201	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	77283	4.75	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.00%
7) Chloroethane-d5	1.92	69	69607	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.20%
11) 1,1-Dichloroethene-d2	2.58	63	220251	6.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	127.40%#
20) 2-Butanone-d5	4.65	46	353895	61.33	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.66%
24) Chloroform-d	5.08	84	168545	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.72	65	103468	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.60%
32) Benzene-d6	5.74	84	299163	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
36) 1,2-Dichloropropane-d6	6.70	67	105436	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.00%
41) Toluene-d8	7.91	98	236372	4.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.40%
43) trans-1,3-Dichloropropene-	8.19	79	40465	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.64	63	263107	59.55	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	119.10%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	96137	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	96315	5.36	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	1062	0.044	ug/L #	1
9) Trichlorofluoromethane	2.38	101	1736	0.054	ug/L	90
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1037	0.056	ug/L #	25
12) 1,1-Dichloroethene	2.59	96	173018	9.965	ug/L	86
16) Methylene chloride	3.06	84	5343	0.250	ug/L	94
19) 1,1-Dichloroethane	3.89	63	31212	0.862	ug/L	98
22) cis-1,2-Dichloroethene	4.69	96	101760	5.147	ug/L	99
25) Chloroform	5.10	83	5157	0.140	ug/L	83
27) 1,2-Dichloroethane	5.81	62	1295	0.051	ug/L #	76
29) 1,1,1-Trichloroethane	5.34	97	11245	0.351	ug/L	97
31) Carbon tetrachloride	5.54	117	3675	0.130	ug/L	95
34) Trichloroethene	6.56	95	133388	6.608	ug/L	95
35) Methylcyclohexane	6.70	83	25089	0.830	ug/L #	16
37) 1,2-Dichloropropane	6.71	63	11709	0.547	ug/L #	90
39) cis-1,3-Dichloropropene	7.57	75	3153	0.110	ug/L #	65
44) trans-1,3-Dichloropropene	8.19	75	2063	0.080	ug/L #	80
45) 1,1,2-Trichloroethane	8.41	97	1338	0.092	ug/L	94

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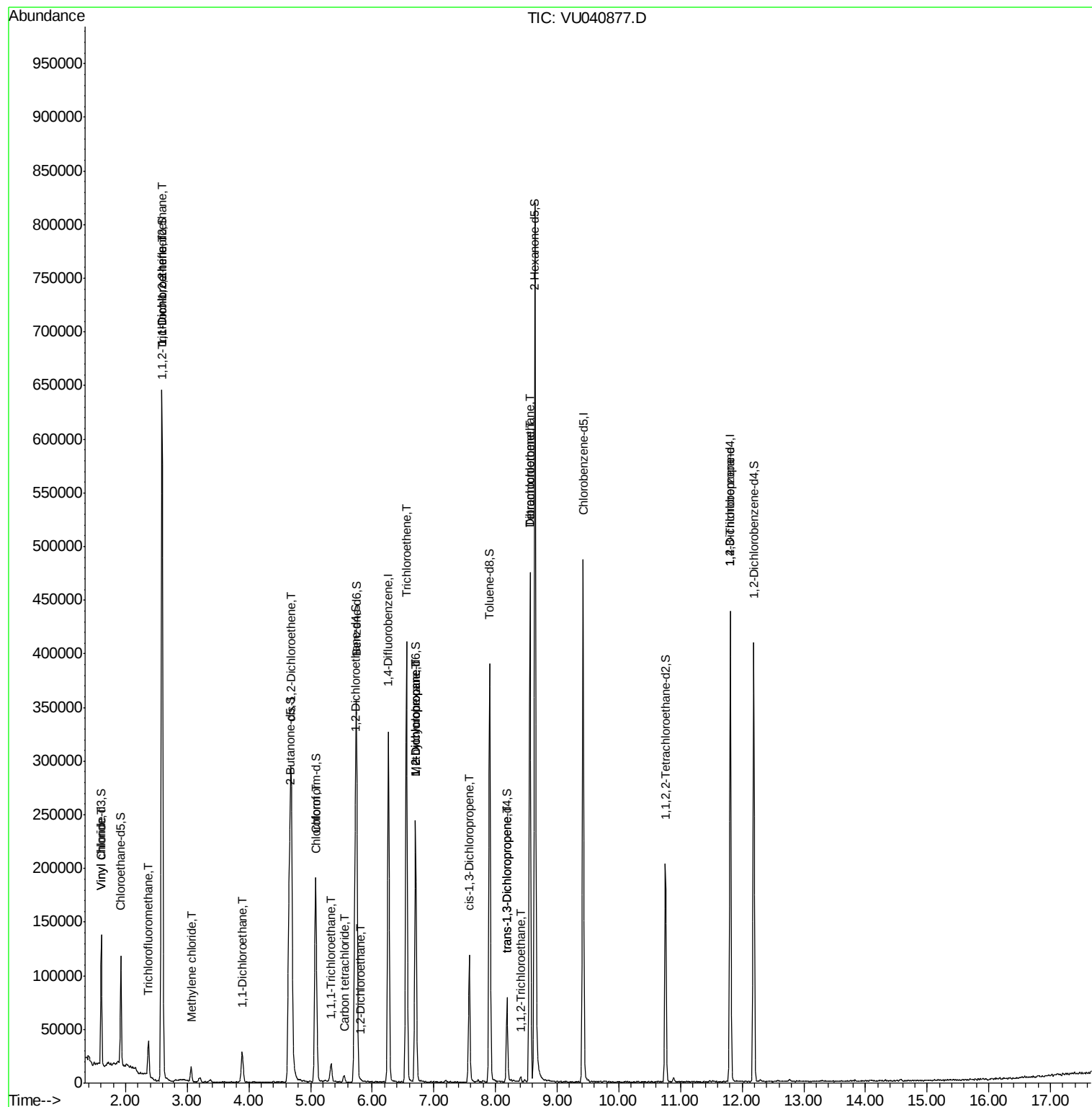
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	97059	6.461	ug/L	95
49) Dibromochloromethane	8.56	129	94122	5.407	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	15318	1.101	ug/L	98

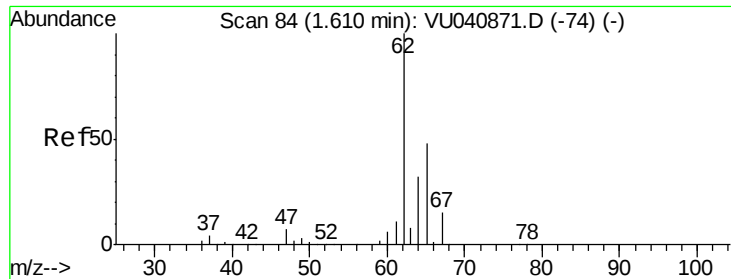
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.044 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Instrument :

MSVOA_U

ClientSampleId :

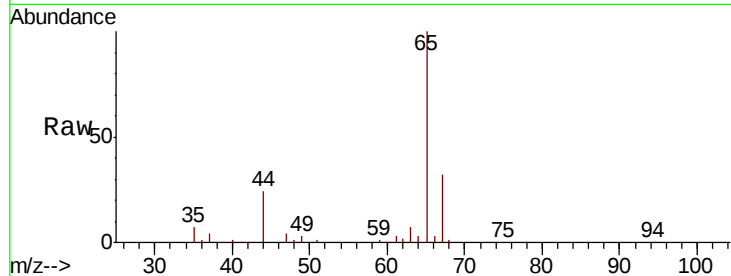
C0AJ8DL

Tot Ion: 62 Resp: 1062

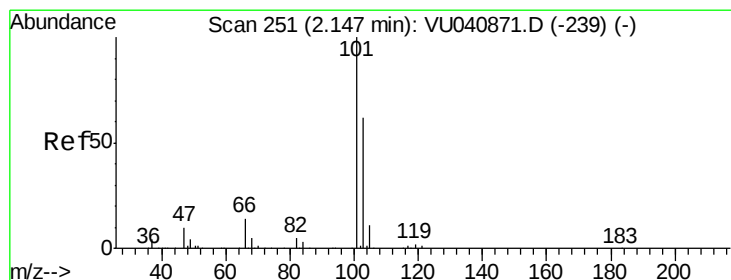
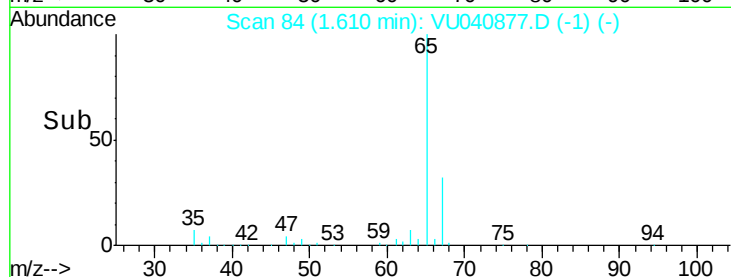
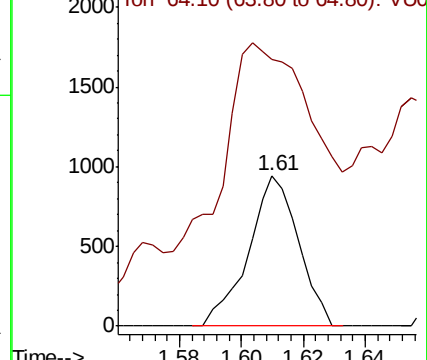
Ion Ratio Lower Upper

62 100

64 176.4 21.8 40.6#



Abundance Ion 62.00 (61.70 to 62.70): VU040877.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 0.054 ug/L

RT: 2.38 min Scan# 322

Delta R.T. 0.23 min

Lab File: VU040877.D

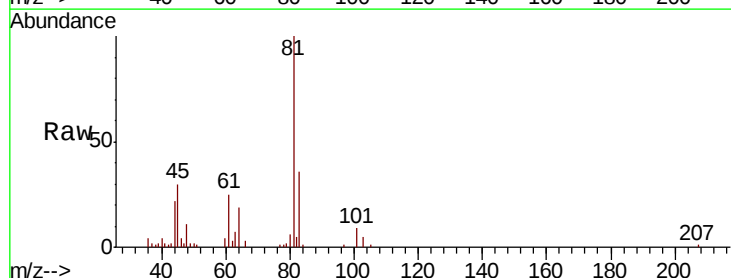
Acq: 21 Oct 2020 16:44

Tgt Ion: 101 Resp: 1736

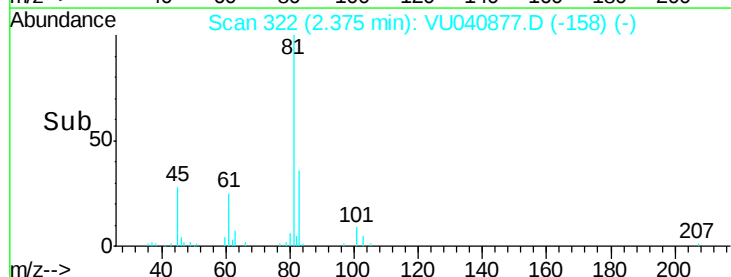
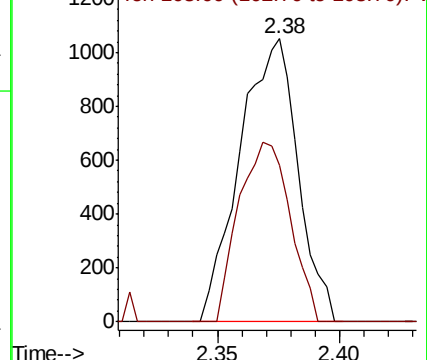
Ion Ratio Lower Upper

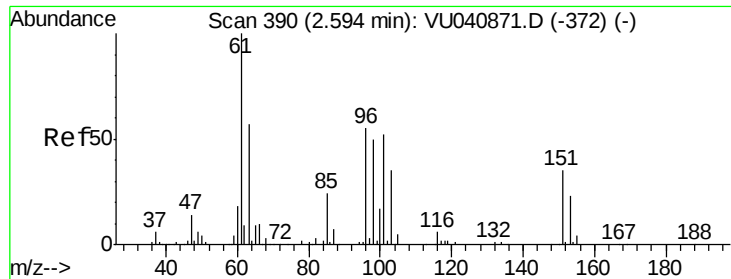
101 100

103 56.1 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU040877.D (-158) (-)





#10

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

Concen: 0.056 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Instrument :

MSVOA_U

ClientSampleId :

C0AJ8DL

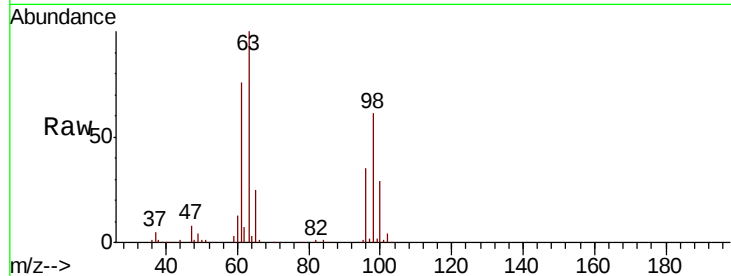
Tot Ion:101 Resp: 1037

Ion Ratio Lower Upper

101 100

85 7.4 36.4 54.6#

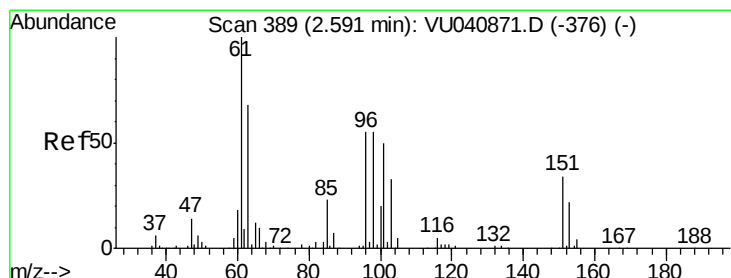
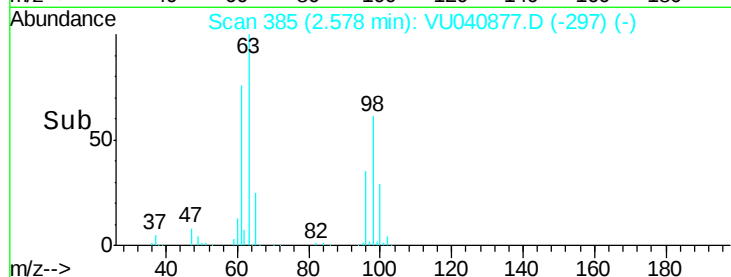
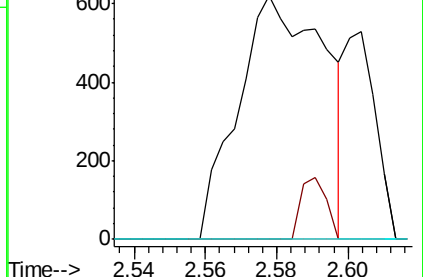
151 0.0 56.3 84.5#



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: 9.965 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

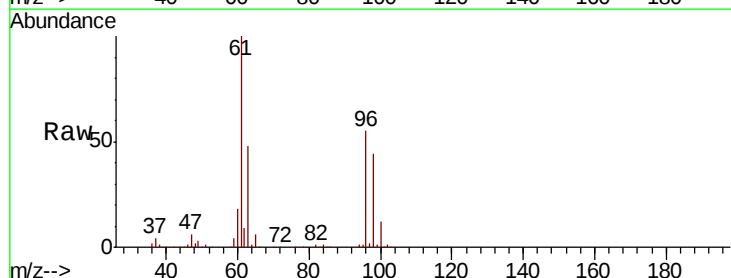
Tgt Ion: 96 Resp: 173018

Ion Ratio Lower Upper

96 100

61 182.6 130.9 243.1

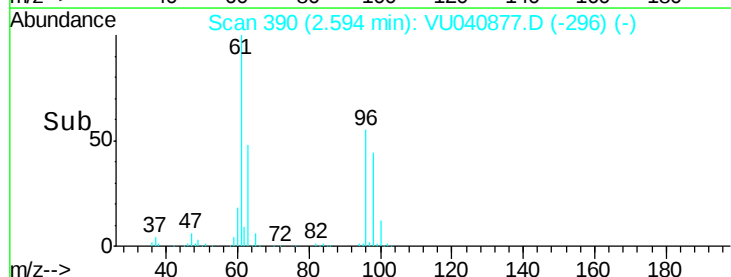
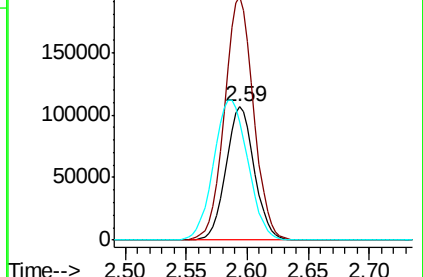
63 88.2 85.4 158.6

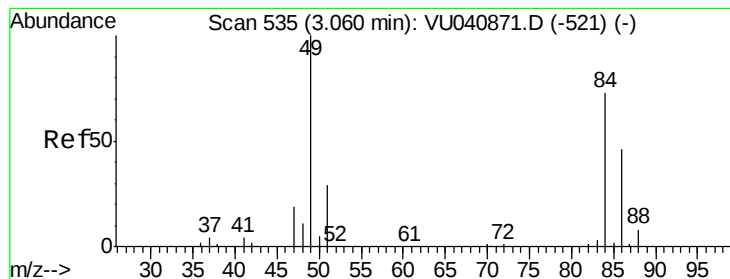


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 0.250 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Instrument :

MSVOA_U

ClientSampled :

C0AJ8DL

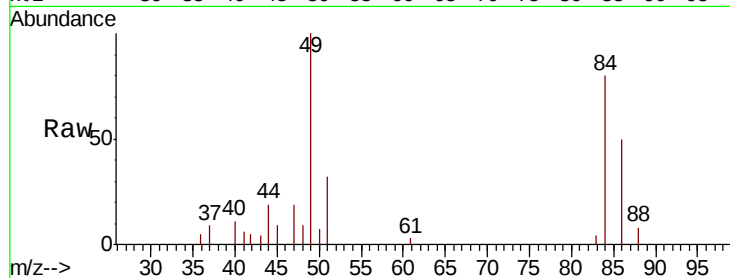
Tot Ion: 84 Resp: 5343

Ion Ratio Lower Upper

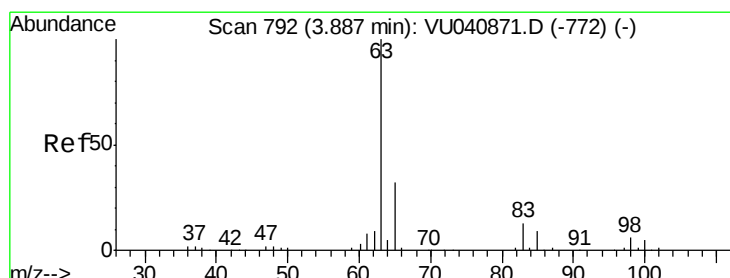
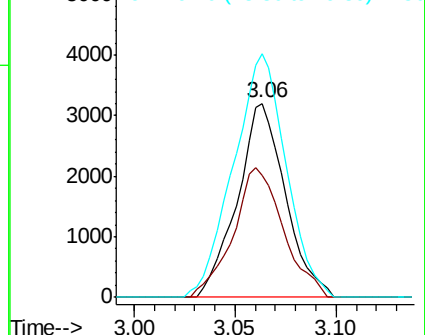
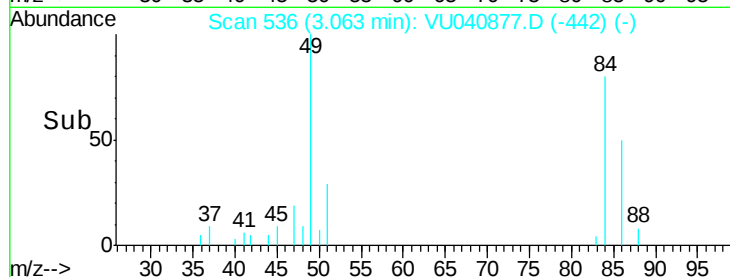
84 100

86 63.1 44.9 83.5

49 125.4 94.7 175.9



Abundance Ion 84.05 (83.75 to 84.75): VU040877.D (-442) (-)



#19

1,1-Dichloroethane

Concen: 0.862 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

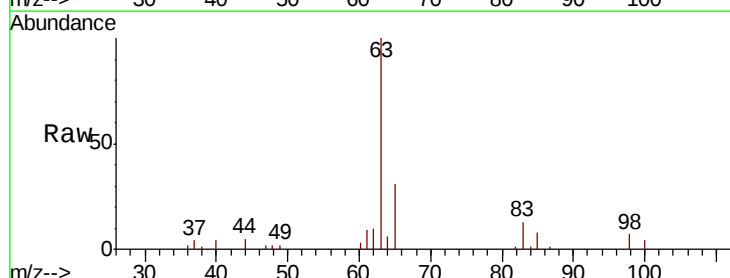
Tgt Ion: 63 Resp: 31212

Ion Ratio Lower Upper

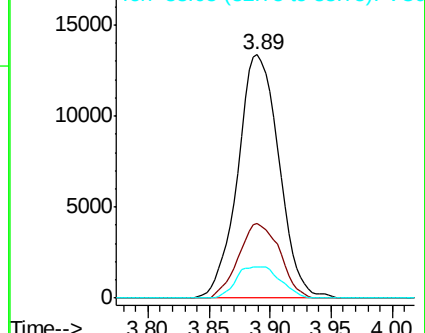
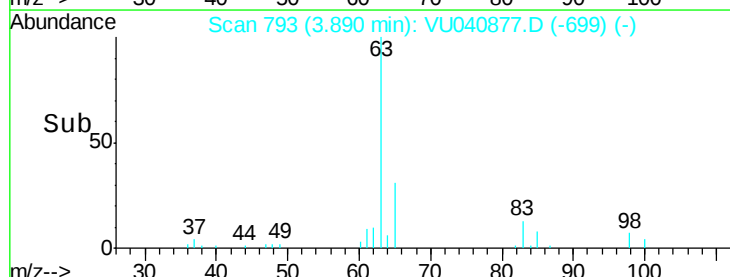
63 100

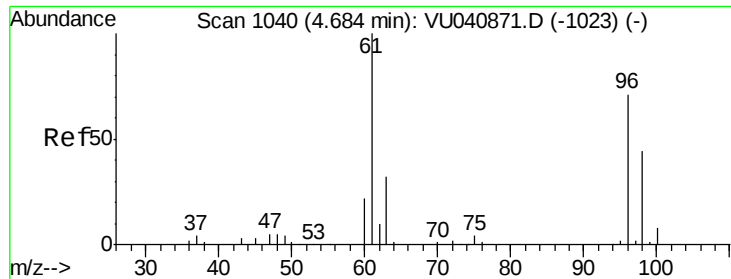
65 30.9 22.6 42.0

83 12.9 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040877.D (-699) (-)

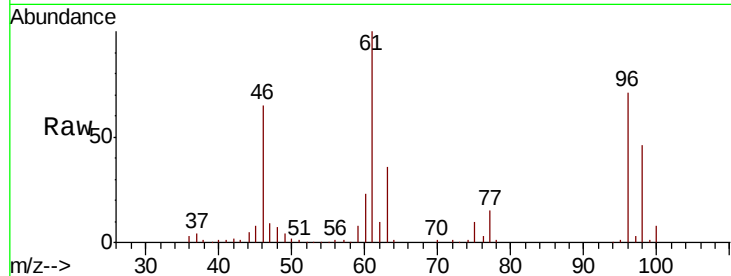




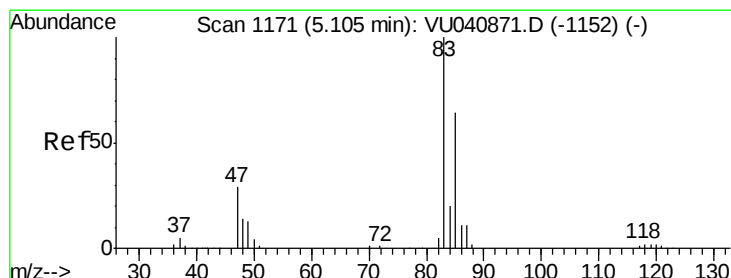
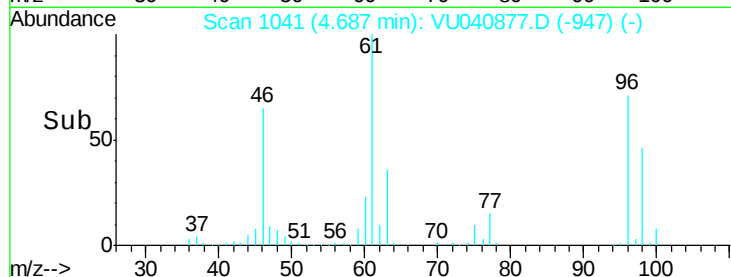
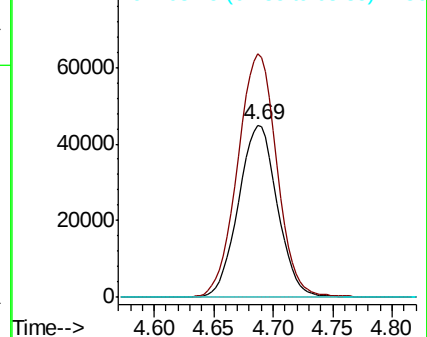
#22
 cis-1,2-Dichloroethene
 Concen: 5.147 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040877.D
 Acq: 21 Oct 2020 16:44

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ8DL

Tot Ion: 96 Resp: 101760
 Ion Ratio Lower Upper
 96 100
 61 141.5 100.0 185.6
 68 0.0 0.0 0.0

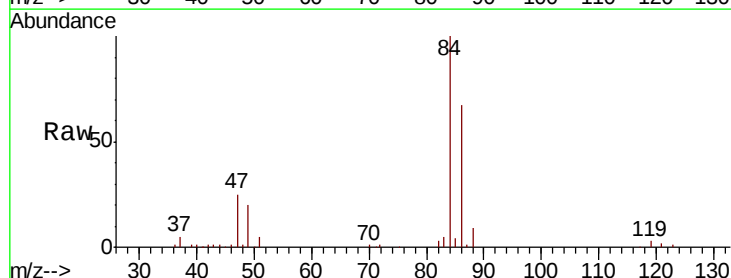


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

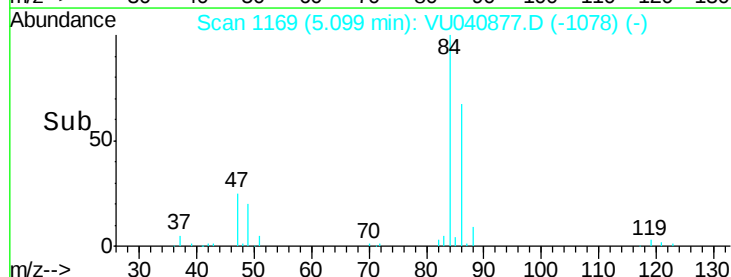
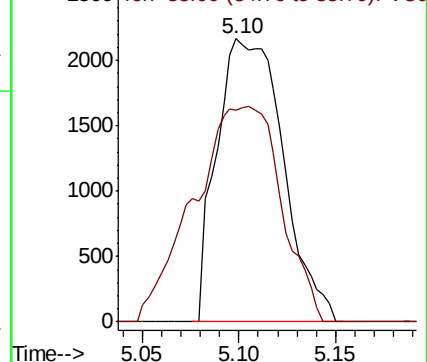


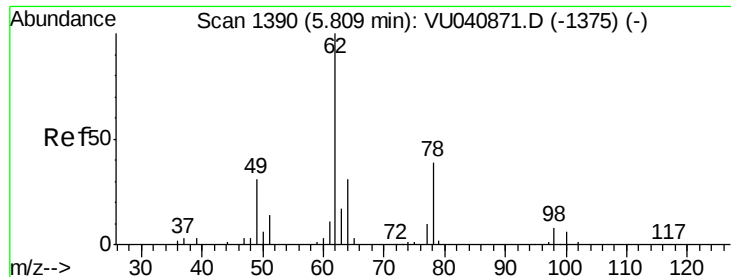
#25
 Chloroform
 Concen: 0.140 ug/L
 RT: 5.10 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: VU040877.D
 Acq: 21 Oct 2020 16:44

Tgt Ion: 83 Resp: 5157
 Ion Ratio Lower Upper
 83 100
 85 75.0 43.4 80.6



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.051 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Instrument :

MSVOA_U

ClientSampleId :

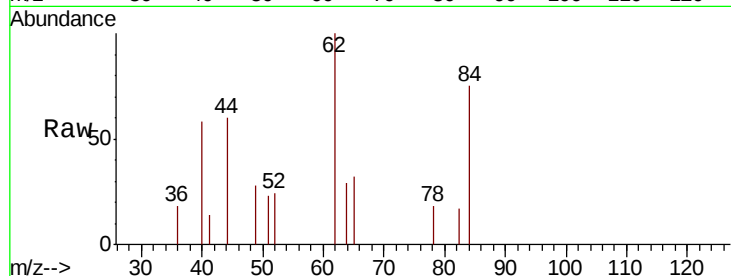
C0AJ8DL

Tot Ion: 62 Resp: 1295

Ion Ratio Lower Upper

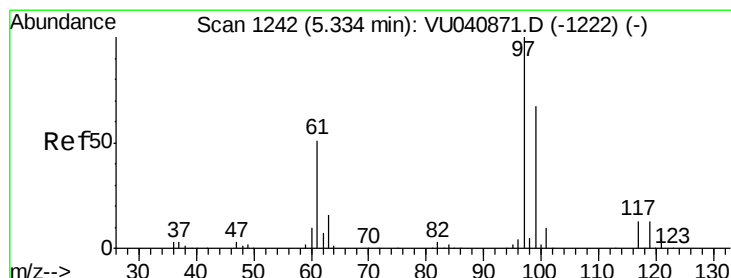
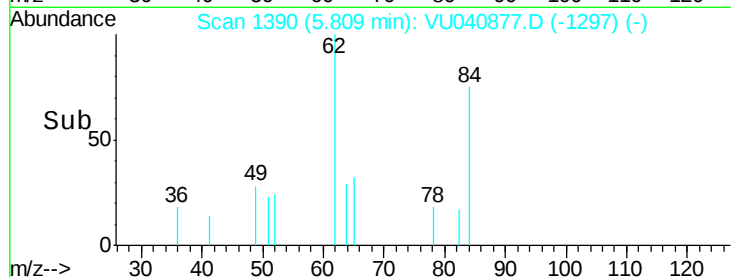
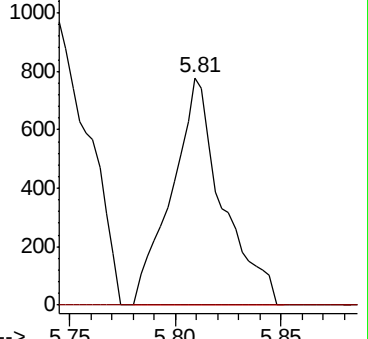
62 100

98 0.0 7.0 10.6#



Abundance Ion 62.00 (61.70 to 62.70): VU040877.D (-1297) (-)

Ion 98.05 (97.75 to 98.75): VU040877.D (-1297) (-)



#29

1,1,1-Trichloroethane

Concen: 0.351 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

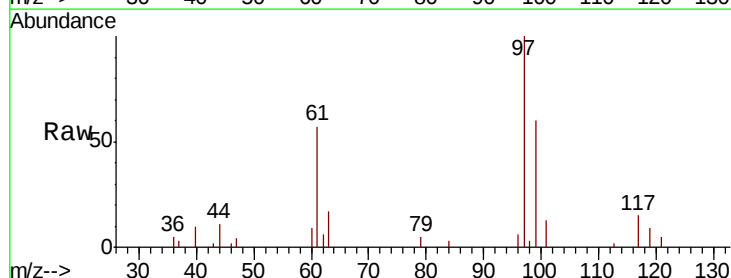
Tgt Ion: 97 Resp: 11245

Ion Ratio Lower Upper

97 100

99 63.0 51.2 76.8

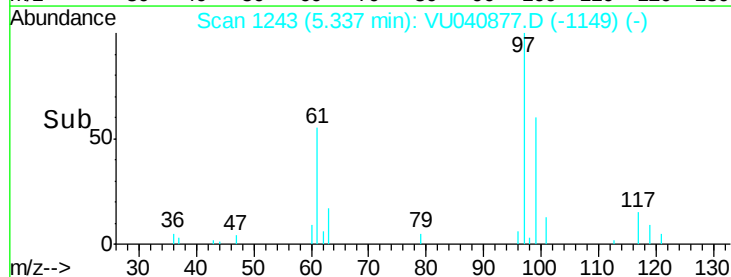
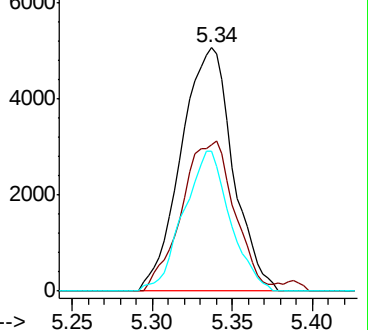
61 51.6 39.0 58.6

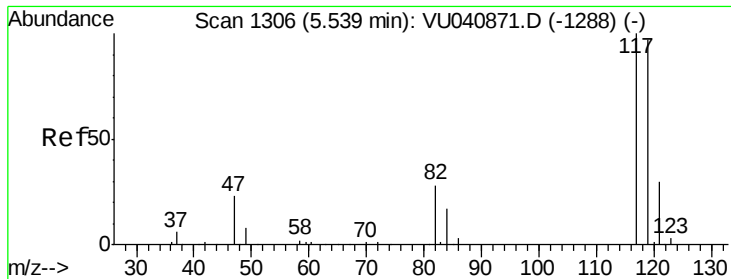


Abundance Ion 96.95 (96.65 to 97.65): VU040877.D (-1149) (-)

Ion 99.05 (98.75 to 99.75): VU040877.D (-1149) (-)

Ion 61.05 (60.75 to 61.75): VU040877.D (-1149) (-)





#31

Carbon tetrachloride

Concen: 0.130 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Instrument :

MSVOA_U

ClientSampleId :

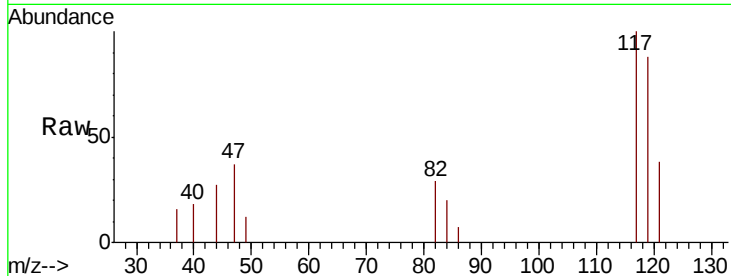
C0AJ8DL

Tot Ion:117 Resp: 3675

Ion Ratio Lower Upper

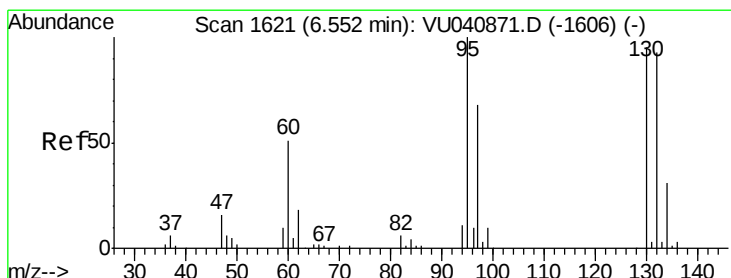
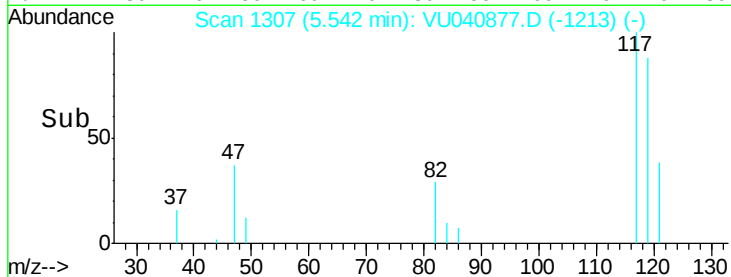
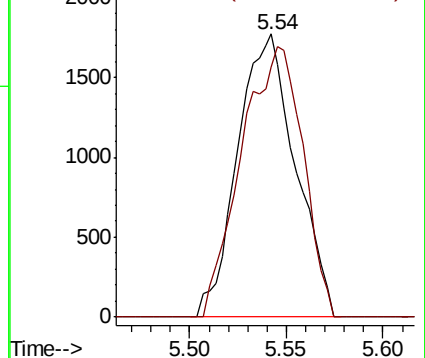
117 100

119 101.4 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 6.608 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Tgt Ion: 95 Resp: 133388

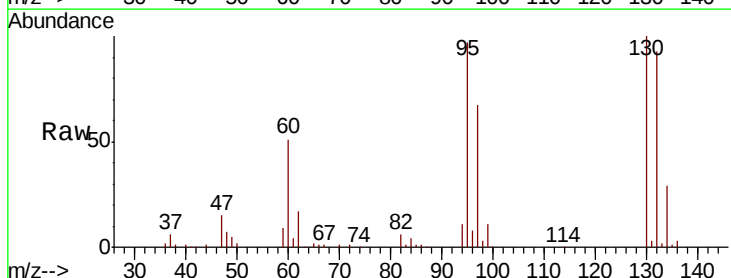
Ion Ratio Lower Upper

95 100

97 69.1 46.0 85.4

132 96.7 63.6 118.2

130 103.6 68.6 127.4

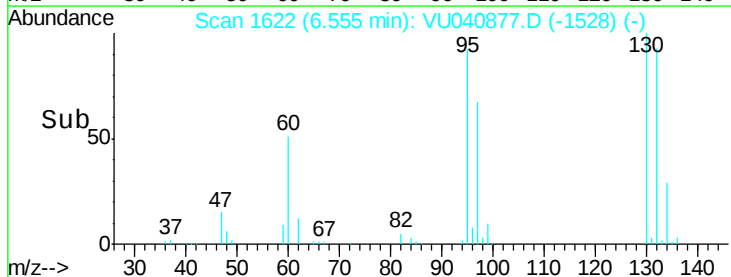
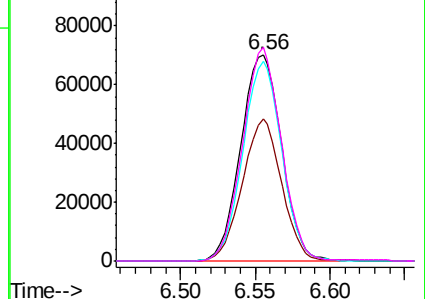


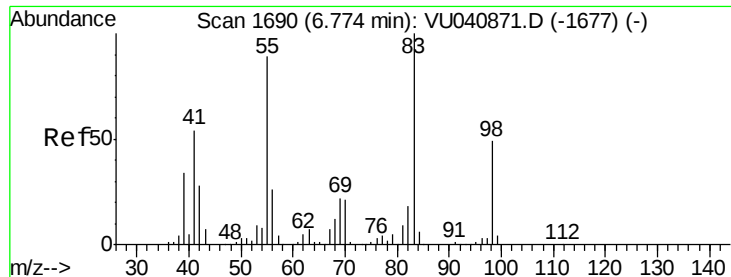
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0





#35

Methvlcvclohexane

Concen: 0.830 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Instrument :

MSVOA_U

ClientSampleId :

C0AJ8DL

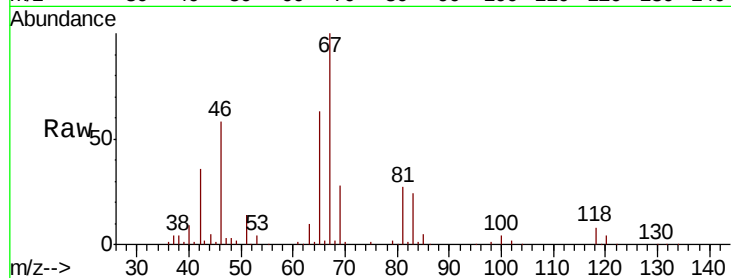
Tot Ion: 83 Resp: 25089

Ion Ratio Lower Upper

83 100

55 0.3 69.1 103.7#

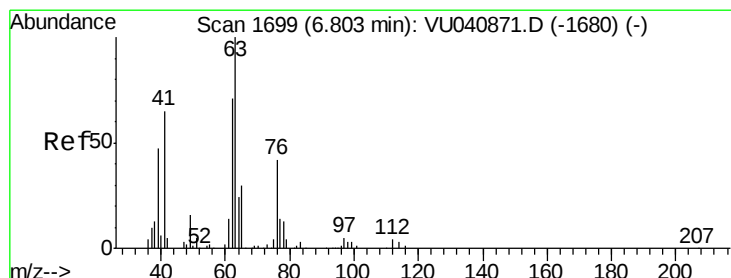
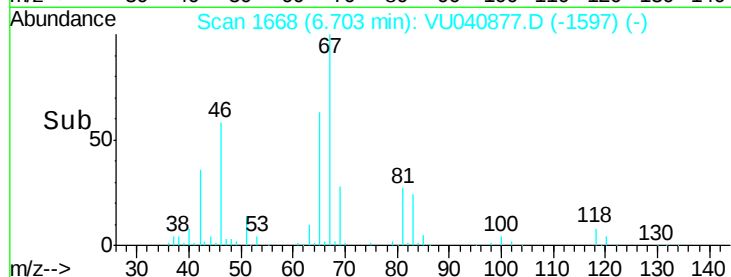
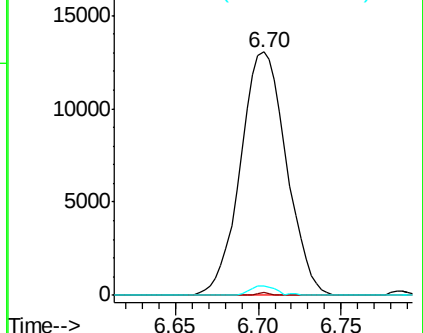
98 2.3 37.8 56.6#



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: 0.547 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.10 min

Lab File: VU040877.D

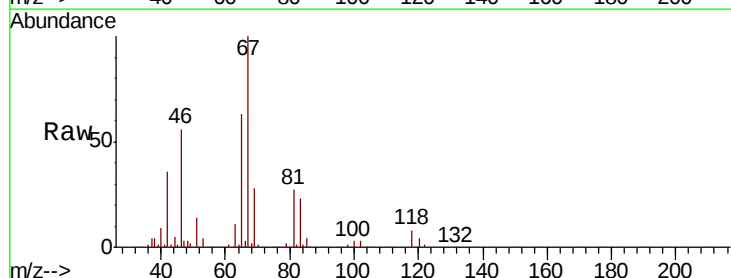
Acq: 21 Oct 2020 16:44

Tgt Ion: 63 Resp: 11709

Ion Ratio Lower Upper

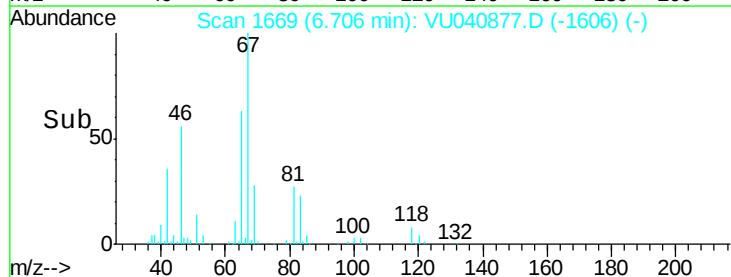
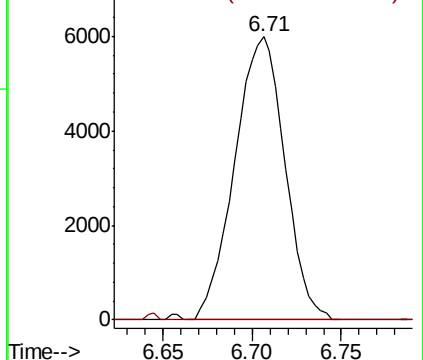
63 100

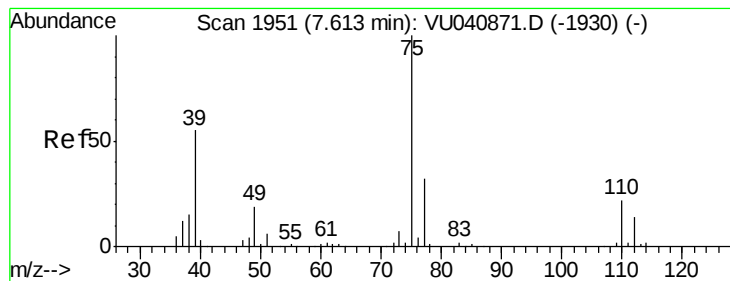
112 0.4 3.0 4.6#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



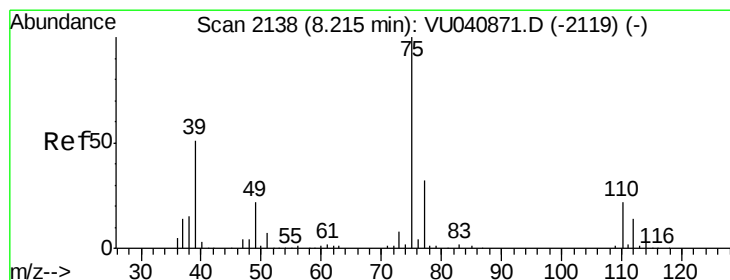
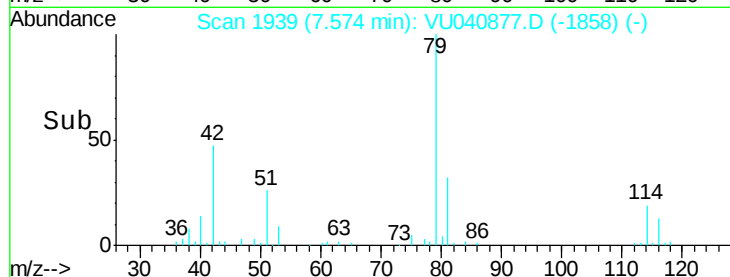
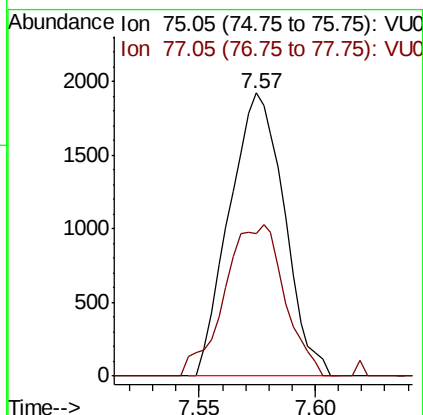
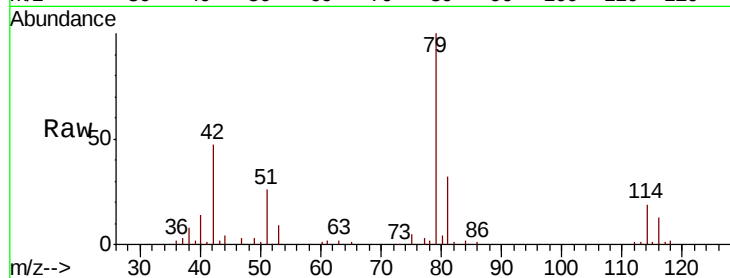


#39

cis-1,3-Dichloropropene
Concen: 0.110 ug/L
RT: 7.57 min Scan# 1939
Delta R.T. -0.04 min
Lab File: VU040877.D
Acq: 21 Oct 2020 16:44

Instrument :
MSVOA_U
ClientSampleId :
C0AJ8DL

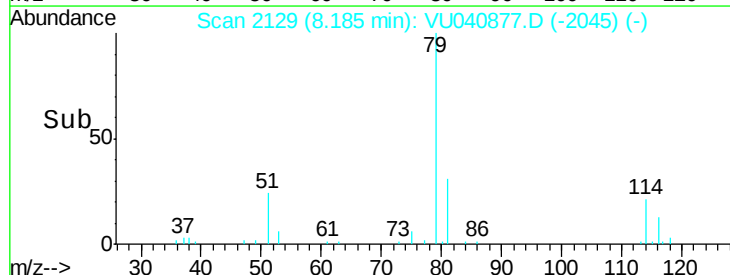
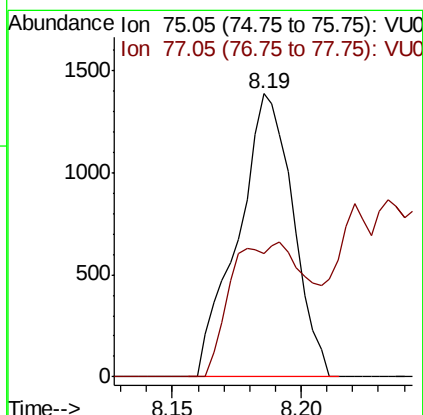
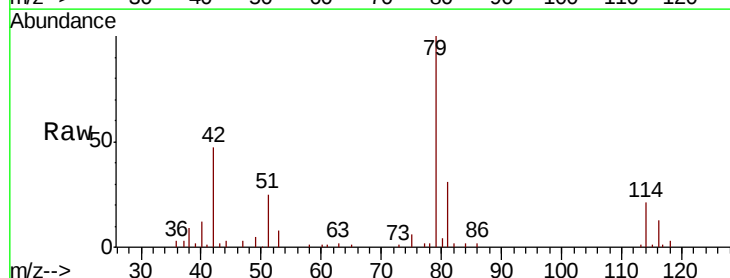
Tot Ion: 75 Resp: 3153
Ion Ratio Lower Upper
75 100
77 50.2 21.6 40.2#

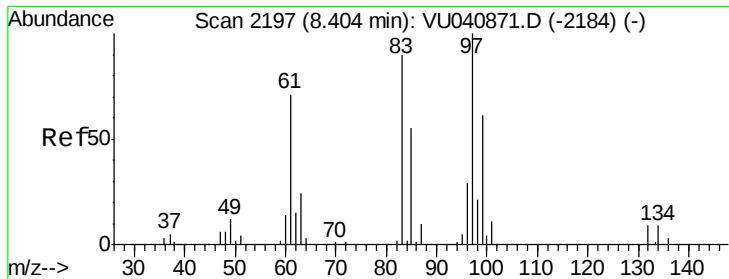


#44

trans-1,3-Dichloropropene
Concen: 0.080 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU040877.D
Acq: 21 Oct 2020 16:44

Tgt Ion: 75 Resp: 2063
Ion Ratio Lower Upper
75 100
77 43.6 22.6 42.0#

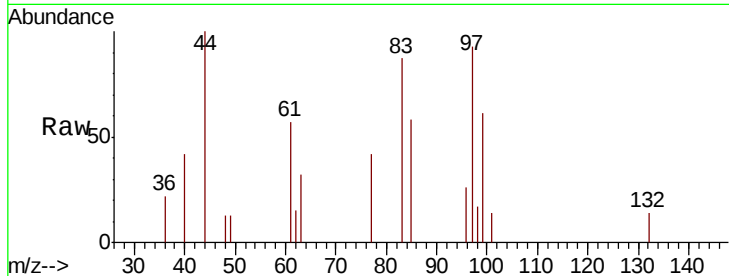




#45
1,1,2-Trichloroethane
Concen: 0.092 ug/L
RT: 8.41 min Scan# 2199
Delta R.T. 0.01 min
Lab File: VU040877.D
Acq: 21 Oct 2020 16:44

Instrument :
MSVOA_U
ClientSampleId :
C0AJ8DL

Tot Ion:	97	Resp:	1338
Ion	Ratio	Lower	Upper
97	100		
99	65.5	42.1	78.1
83	93.4	62.0	115.2
85	61.8	40.3	74.8



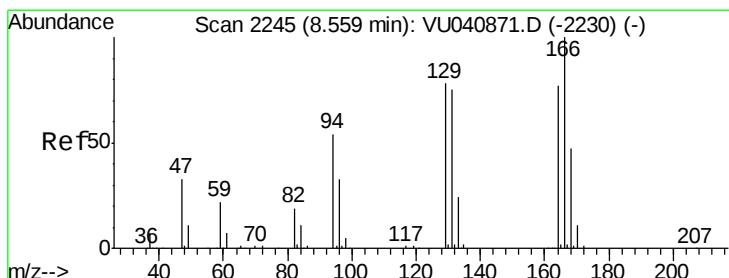
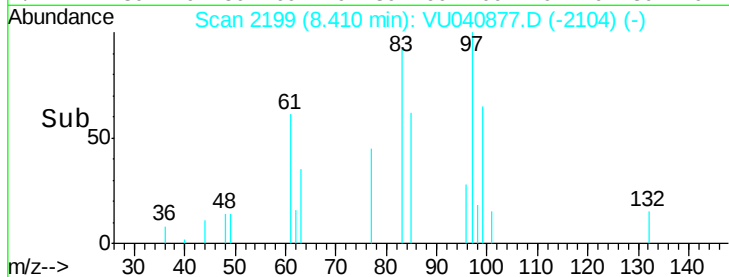
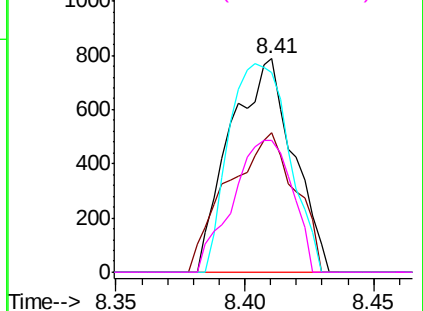
Abundance

Ion 96.95 (96.65 to 97.65): VU040877.D (-2199) (-)

Ion 99.05 (98.75 to 99.75): VU040877.D (-2199) (-)

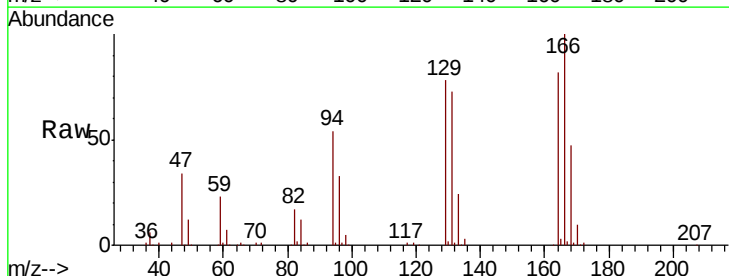
Ion 82.95 (82.65 to 83.65): VU040877.D (-2199) (-)

Ion 85.00 (84.70 to 85.70): VU040877.D (-2199) (-)



#47
Tetrachloroethene
Concen: 6.461 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.00 min
Lab File: VU040877.D
Acq: 21 Oct 2020 16:44

Tgt Ion:	164	Resp:	97059
Ion	Ratio	Lower	Upper
164	100		
129	95.3	69.7	129.4
131	89.1	65.4	121.4
166	122.4	90.0	167.2



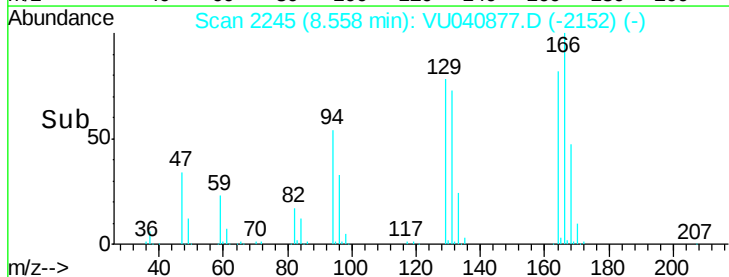
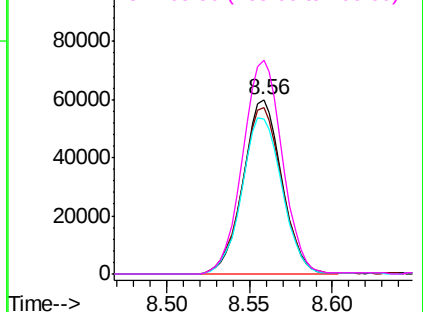
Abundance

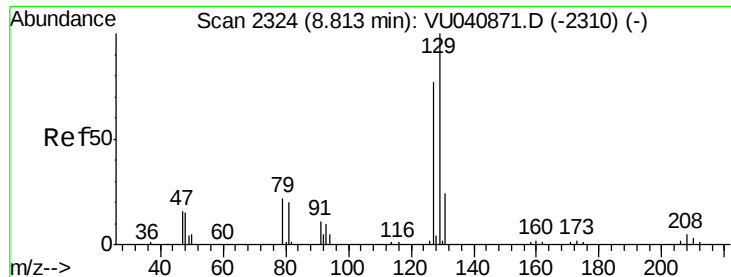
Ion 163.90 (163.60 to 164.60): VU040877.D (-2245) (-)

Ion 128.95 (128.65 to 129.65): VU040877.D (-2245) (-)

Ion 130.95 (130.65 to 131.65): VU040877.D (-2245) (-)

Ion 165.90 (165.60 to 166.60): VU040877.D (-2245) (-)





#49

Dibromochloromethane

Concen: 5.407 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040877.D

Acq: 21 Oct 2020 16:44

Instrument :

MSVOA_U

ClientSampleId :

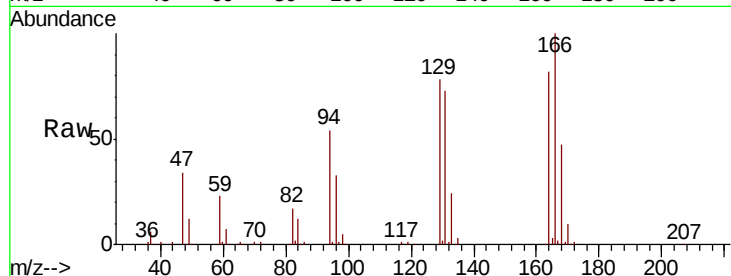
C0AJ8DL

Tot Ion:129 Resp: 94122

Ion Ratio Lower Upper

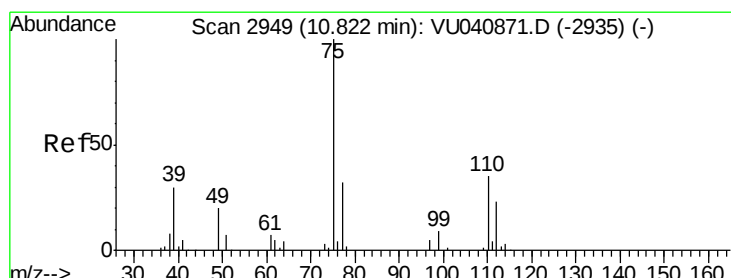
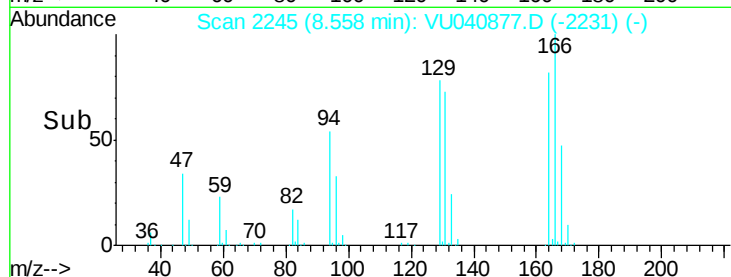
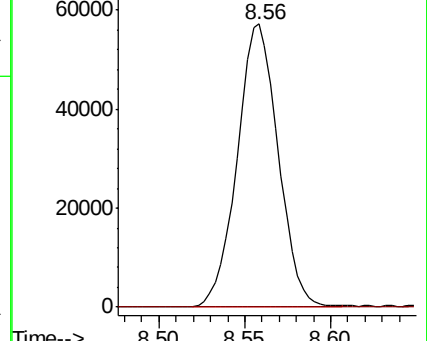
129 100

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



#59

1,2,3-Trichloropropane

Concen: 1.101 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040877.D

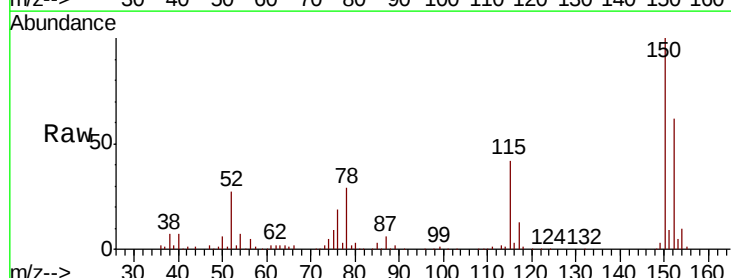
Acq: 21 Oct 2020 16:44

Tgt Ion: 75 Resp: 15318

Ion Ratio Lower Upper

75 100

77 35.7 27.5 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

