

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040856.D
 Acq On : 20 Oct 2020 18:43
 Operator : SY/MD
 Sample : L4428-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ49

Quant Time: Oct 20 23:59:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 23:49:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	118606	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	120621	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51663	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	74720	7.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	152.00%#
7) Chloroethane-d5	1.92	69	37642	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.58	63	73113	3.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.20%
20) 2-Butanone-d5	4.66	46	186195	59.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.40%
24) Chloroform-d	5.08	84	87438	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.72	65	53923	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.74	84	158778	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.70	67	55310	5.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.40%
41) Toluene-d8	7.91	98	127557	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.19	79	20927	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.64	63	122422	51.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.84%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	51105	5.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	51888	5.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.40%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	2848	0.283 ug/L #	68
5) Vinyl chloride	1.61	62	4253771	401.930 ug/L	98
8) Chloroethane	1.99	64	13394	1.988 ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	531	0.054 ug/L #	24
12) 1,1-Dichloroethene	2.59	96	17393	2.055 ug/L #	54
13) Acetone	2.66	43	4471	1.834 ug/L	94
18) trans-1,2-Dichloroethene	3.37	96	54839	6.190 ug/L	95
22) cis-1,2-Dichloroethene	4.69	96	7072426	740.324 ug/L	96
27) 1,2-Dichloroethane	5.82	62	817	0.062 ug/L #	77
30) Cyclohexane	5.40	56	5974	0.400 ug/L	97
33) Benzene	5.79	78	3433	0.089 ug/L	100
34) Trichloroethene	6.56	95	50213	4.999 ug/L	95
35) Methylcyclohexane	6.77	83	2451	0.172 ug/L	94
37) 1,2-Dichloropropane	6.70	63	6202	0.574 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1510	0.102 ug/L #	74
42) Toluene	7.98	91	4472	0.113 ug/L	85
44) trans-1,3-Dichloropropene	8.19	75	990	0.073 ug/L #	80

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QLast Update : Tue Oct 20 23:49:45 2020
Response via : Initial Calibration

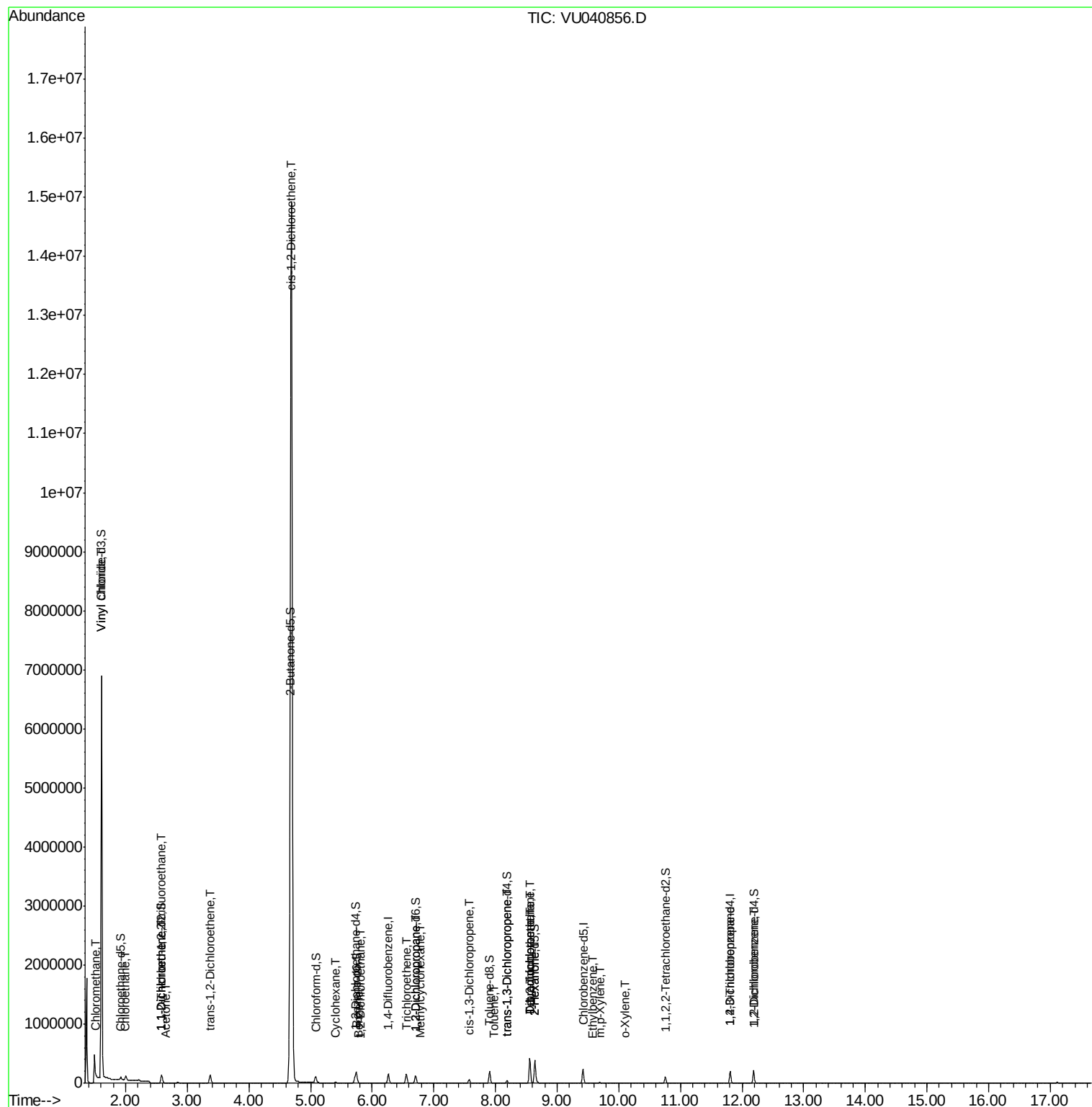
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.56	97	784	0.097	ug/L #	13
47) Tetrachloroethene	8.56	164	83668	11.675	ug/L	96
48) 2-Hexanone	8.64	43	17820	2.780	ug/L #	73
49) Dibromochloromethane	8.56	129	79365	8.530	ug/L #	9
52) Ethylbenzene	9.57	91	2873	0.067	ug/L	91
53) m,p-Xylene	9.69	106	2851	0.183	ug/L	94
54) o-Xylene	10.10	106	1030	0.069	ug/L	94
59) 1,2,3-Trichloropropane	11.81	75	7534	0.950	ug/L	95
65) 1,2-Dichlorobenzene	12.20	146	1709	0.103	ug/L #	79

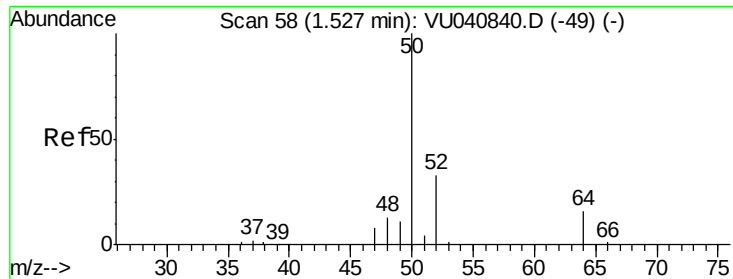
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.283 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

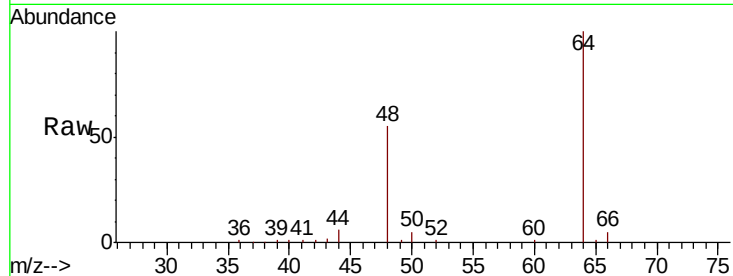
ETZ49

Tot Ion: 50 Resp: 2848

Ion Ratio Lower Upper

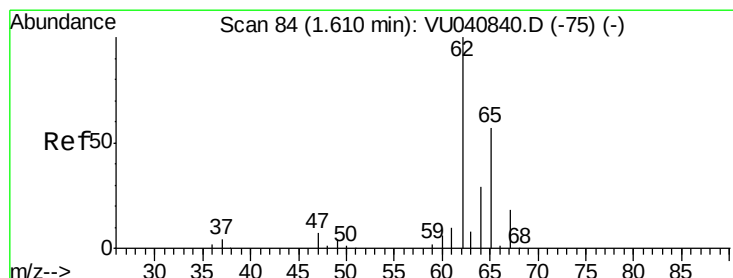
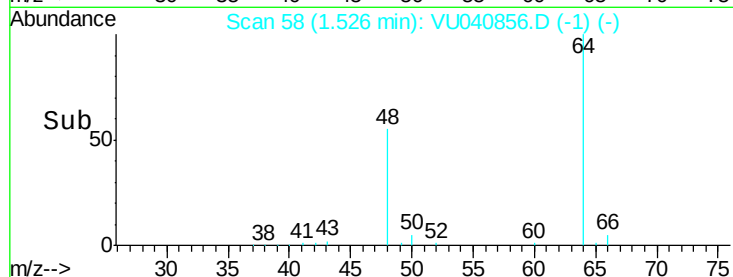
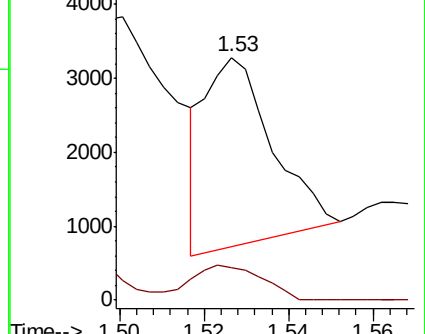
50 100

52 13.6 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU040840.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040840.D (-49) (-)



#5

Vinyl chloride

Concen: 401.930 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040856.D

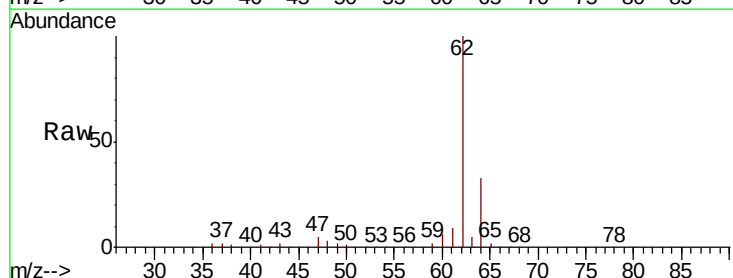
Acq: 20 Oct 2020 18:43

Tgt Ion: 62 Resp: 4253771

Ion Ratio Lower Upper

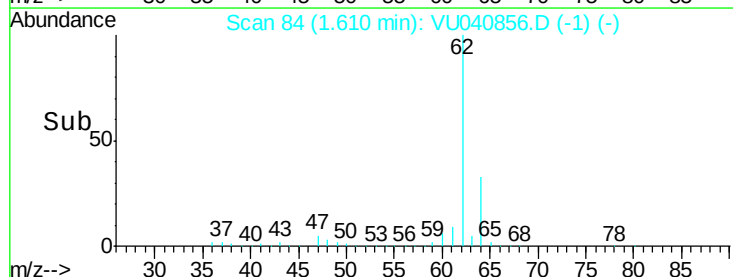
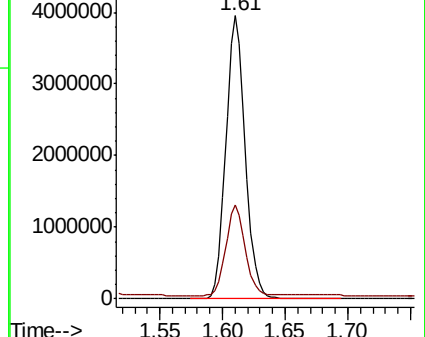
62 100

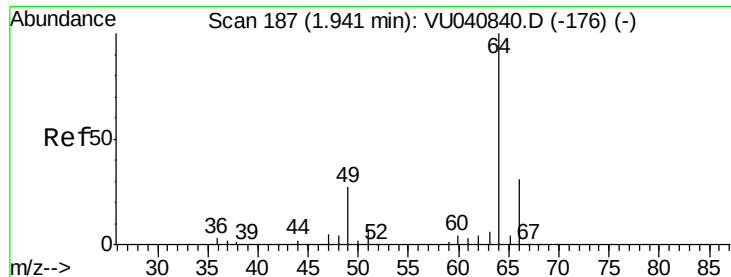
64 33.0 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU040840.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU040840.D (-75) (-)





#8

Chloroethane

Concen: 1.988 ug/L

RT: 1.99 min Scan# 202

Delta R.T. 0.05 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

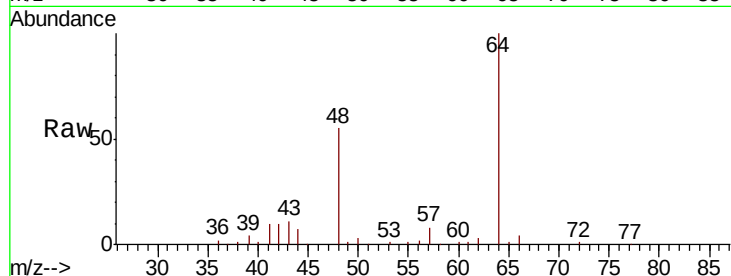
ETZ49

Tot Ion: 64 Resp: 13394

Ion Ratio Lower Upper

64 100

66 3.9 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU040840.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU040840.D (-176) (-)

1.99

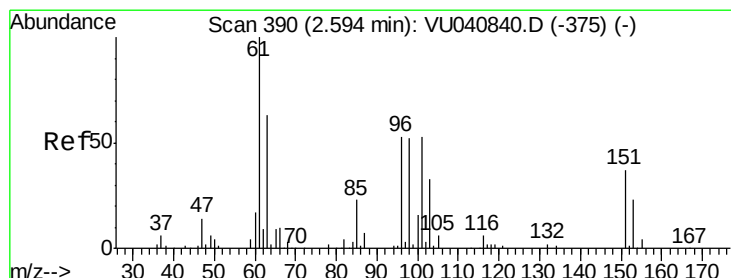
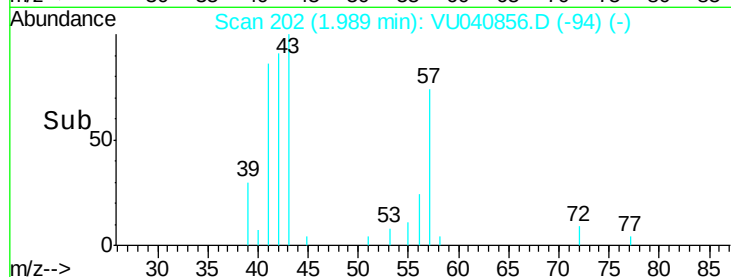
30000

20000

10000

0

Time-->



#10

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

Concen: 0.054 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

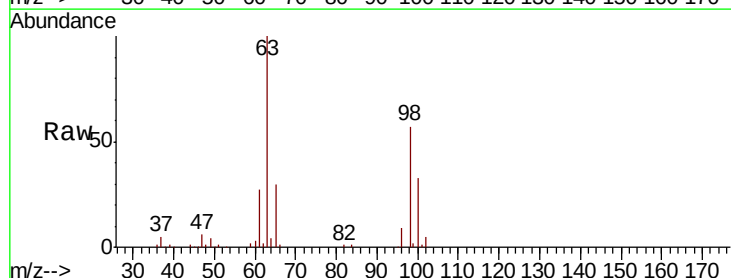
Tgt Ion: 101 Resp: 531

Ion Ratio Lower Upper

101 100

85 7.7 36.7 55.1#

151 0.0 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): VU040840.D (-375) (-)

Ion 85.00 (84.70 to 85.70): VU040840.D (-375) (-)

Ion 151.00 (150.70 to 151.70): VU040840.D (-375) (-)

2.58

500

400

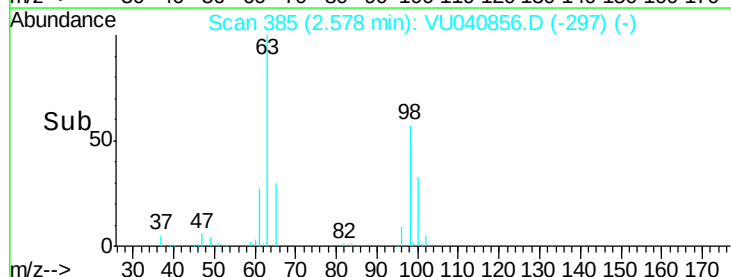
300

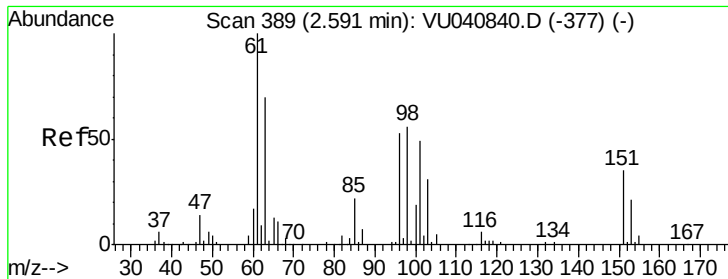
200

100

0

Time-->





#12

1,1-Dichloroethene

Concen: 2.055 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampled :

ETZ49

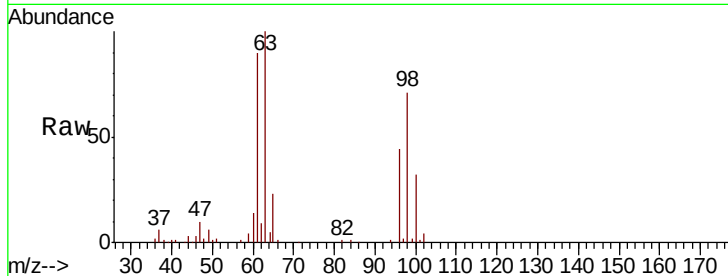
Tot Ion: 96 Resp: 17393

Ion Ratio Lower Upper

96 100

61 204.1 128.8 239.2

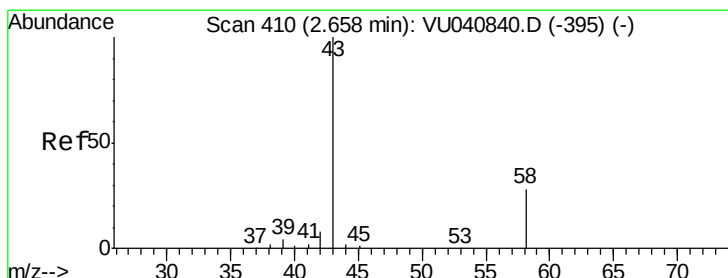
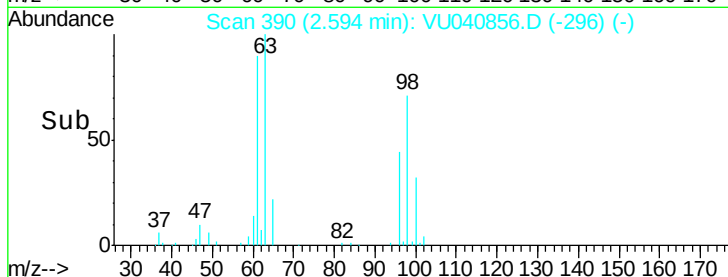
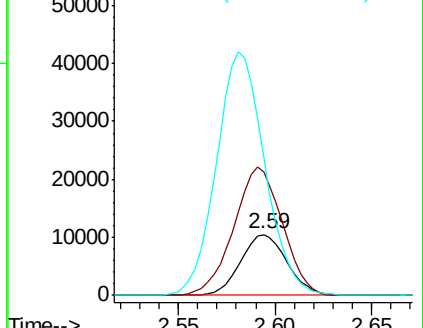
63 227.5 84.6 157.2#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 1.834 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU040856.D

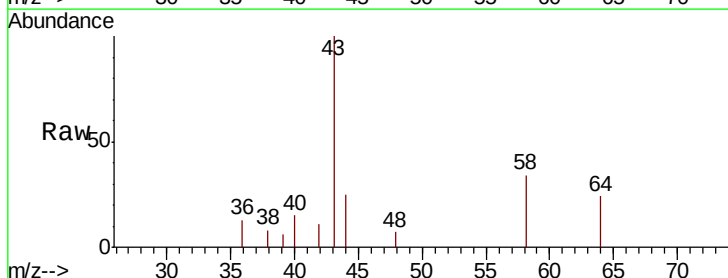
Acq: 20 Oct 2020 18:43

Tgt Ion: 43 Resp: 4471

Ion Ratio Lower Upper

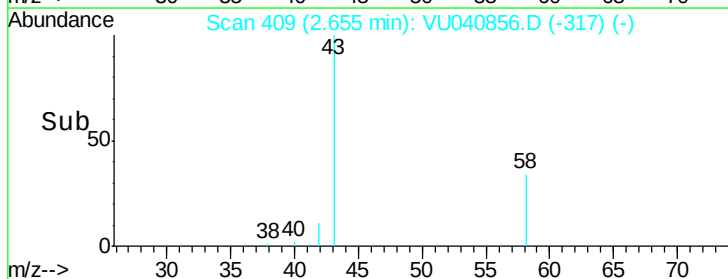
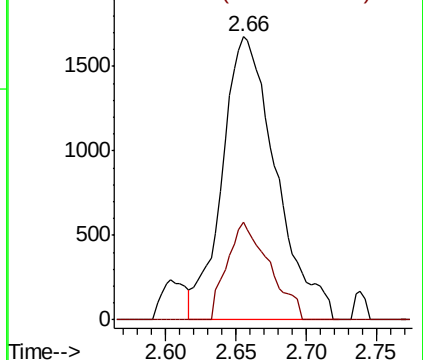
43 100

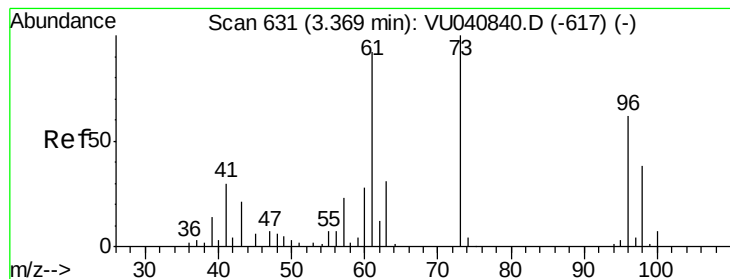
58 27.1 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#18

trans-1,2-Dichloroethene

Concen: 6.190 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampled :

ETZ49

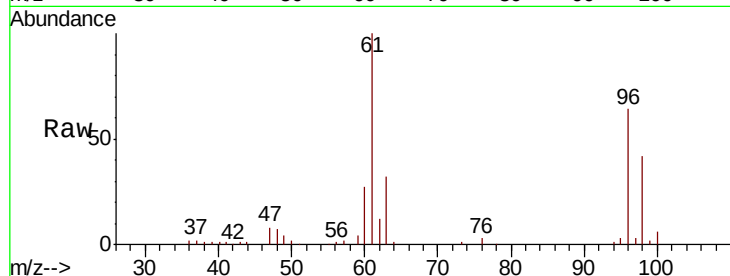
Tot Ion: 96 Resp: 54839

Ion Ratio Lower Upper

96 100

61 157.1 105.9 196.7

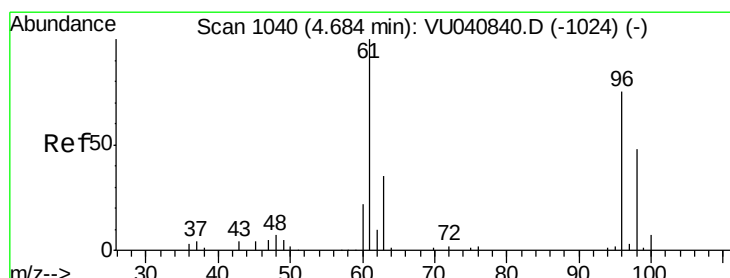
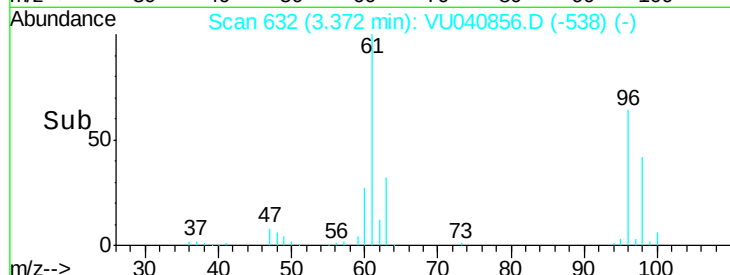
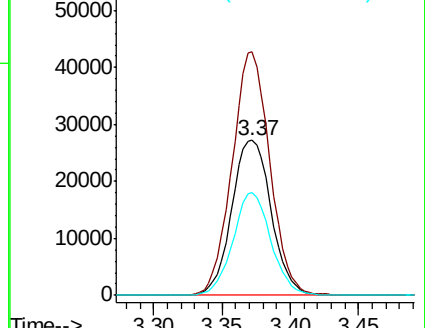
98 66.0 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU040856.D (-538) (-)

Ion 61.05 (60.75 to 61.75): VU040856.D (-538) (-)

Ion 97.95 (97.65 to 98.65): VU040856.D (-538) (-)



#22

cis-1,2-Dichloroethene

Concen: 740.324 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

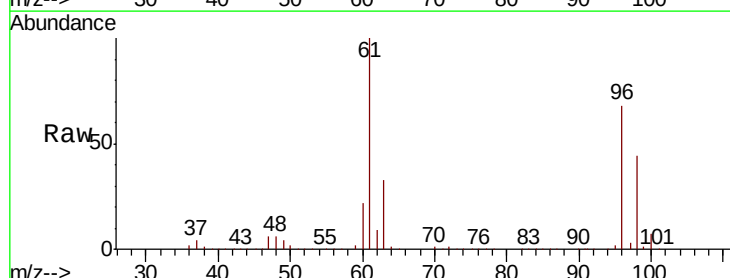
Tgt Ion: 96 Resp: 7072426

Ion Ratio Lower Upper

96 100

61 147.1 99.8 185.4

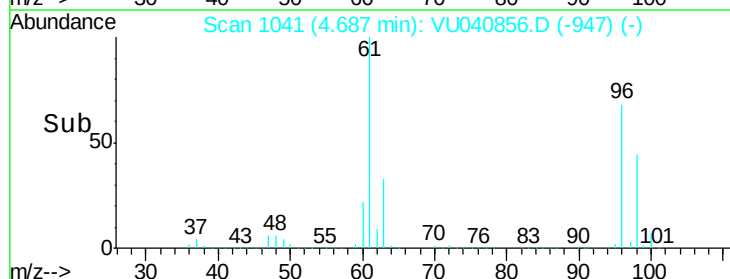
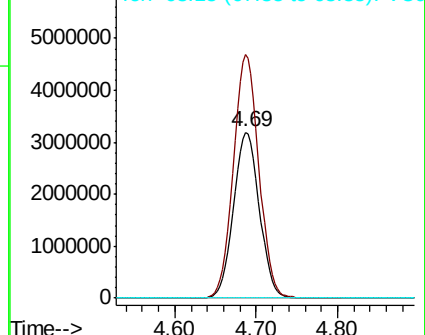
68 0.0 0.0 0.0

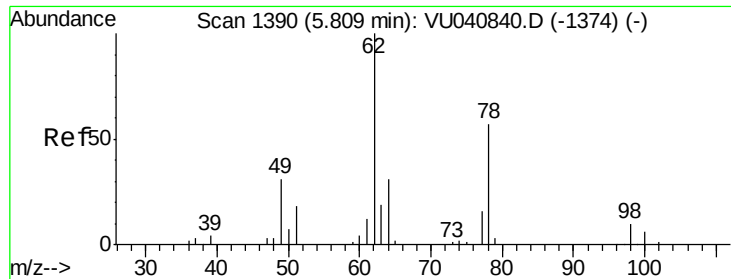


Abundance Ion 96.00 (95.70 to 96.70): VU040856.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040856.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040856.D (-947) (-)

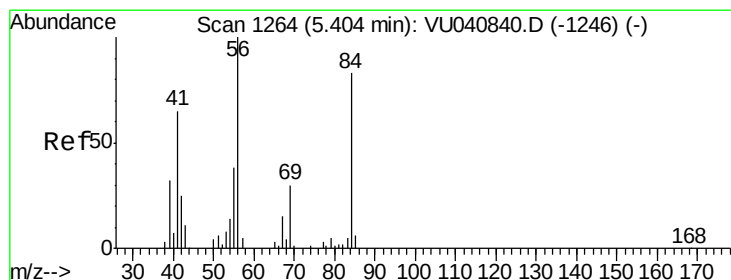
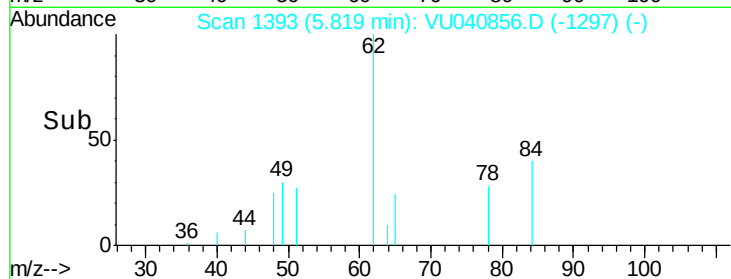
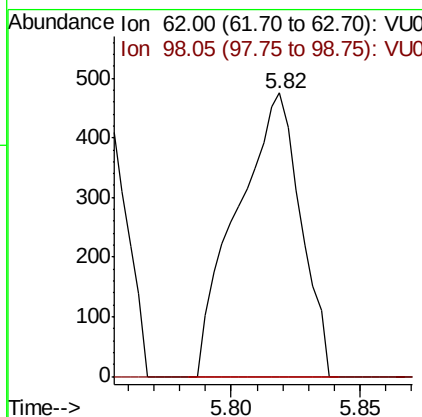
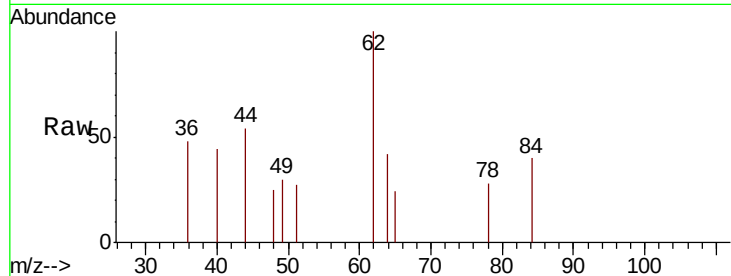




#27
 1,2-Dichloroethane
 Concen: 0.062 ug/L
 RT: 5.82 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

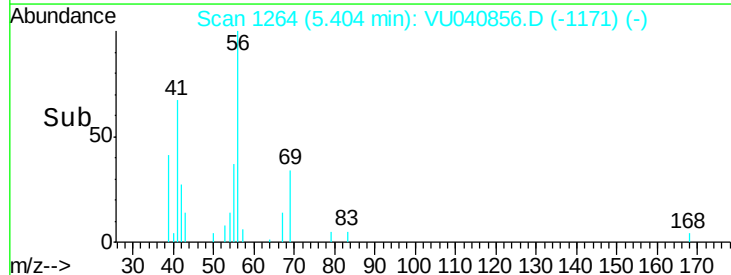
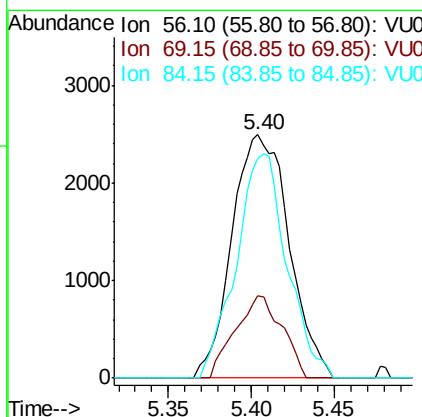
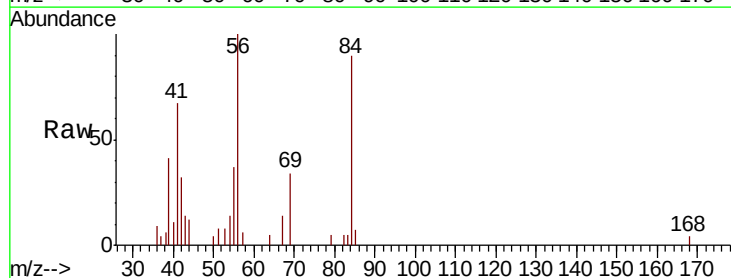
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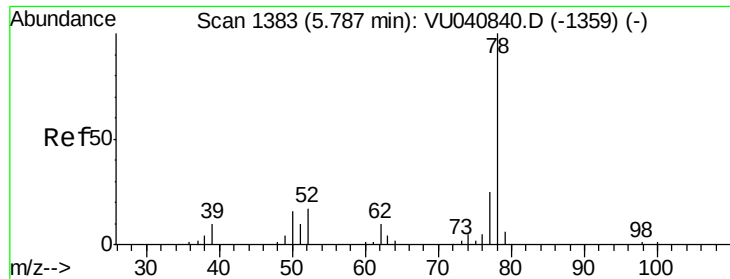
Tot Ion: 62 Resp: 817
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#30
 Cyclohexane
 Concen: 0.400 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

Tgt Ion: 56 Resp: 5974
 Ion Ratio Lower Upper
 56 100
 69 27.5 23.8 35.8
 84 81.9 64.0 96.0





#33

Benzene

Concen: 0.089 ug/L

RT: 5.79 min Scan# 1383

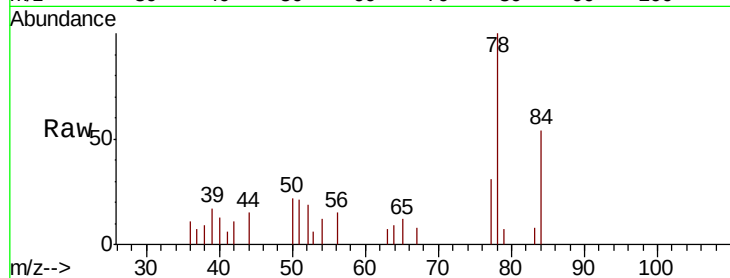
Delta R.T. -0.00 min

Lab File: VU040856.D

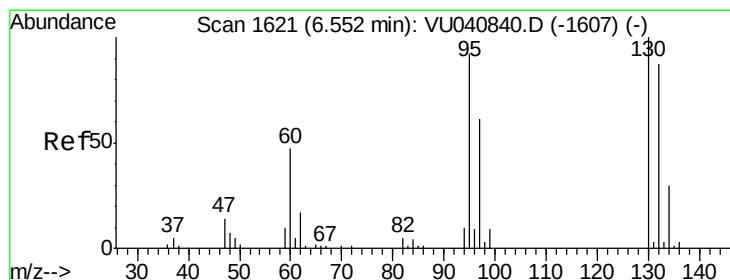
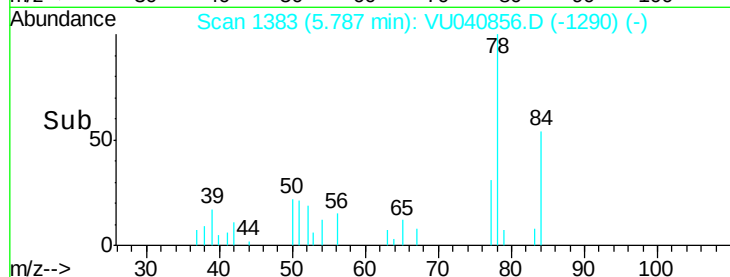
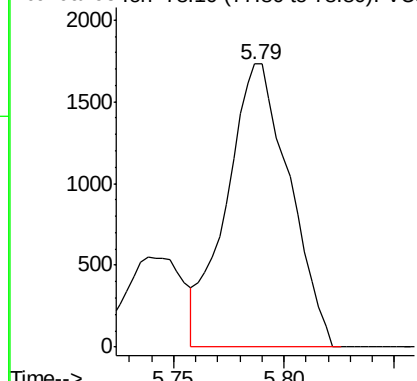
Acq: 20 Oct 2020 18:43

Instrument :
MSVOA_U
ClientSampled :
ETZ49

Tgt Ion: 78 Resp: 3433



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 4.999 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Tgt Ion: 95 Resp: 50213

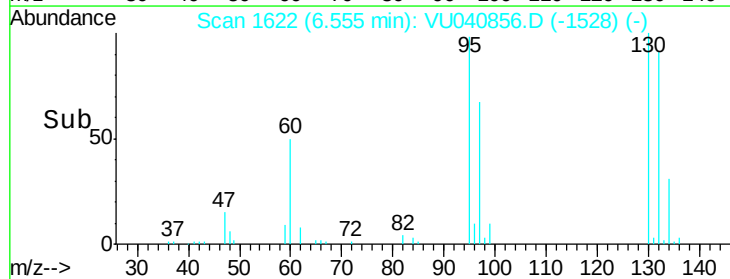
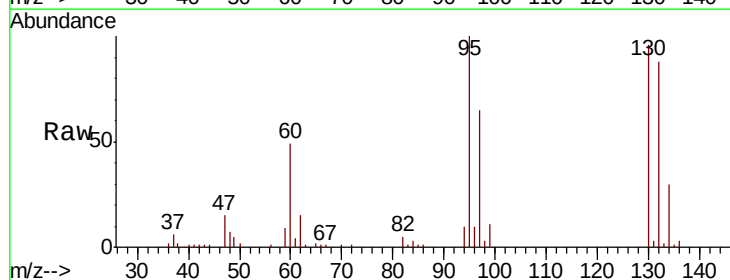
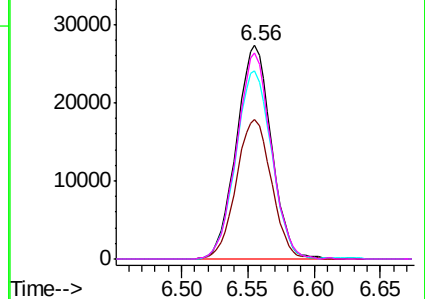
Ion	Ratio	Lower	Upper
95	100		
97	65.1	45.5	84.5
132	87.9	67.5	125.4
130	96.5	69.9	129.9

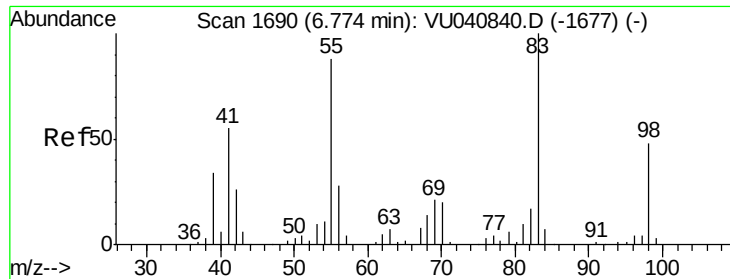
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

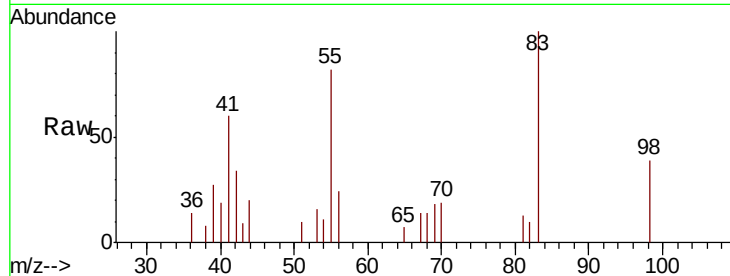




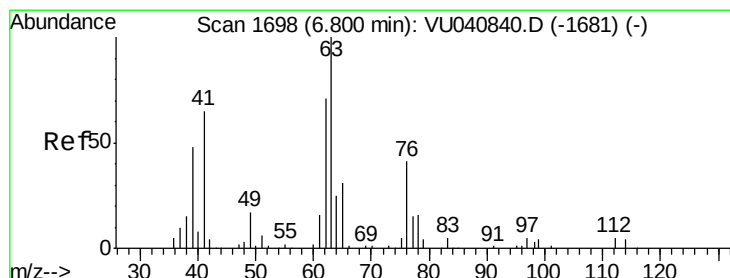
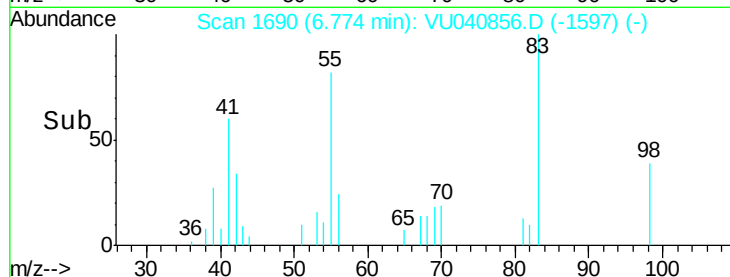
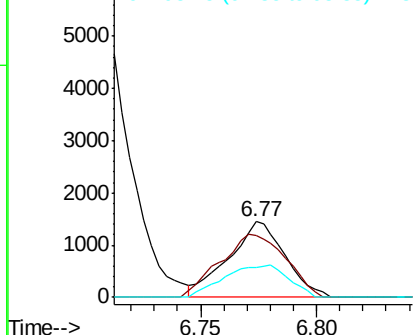
#35
Methylvlcyclohexane
Concen: 0.172 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VU040856.D
Acq: 20 Oct 2020 18:43

Instrument :
MSVOA_U
ClientSampleId :
ETZ49

Tot Ion: 83 Resp: 2451
Ion Ratio Lower Upper
83 100
55 97.0 70.7 106.1
98 48.1 38.4 57.6

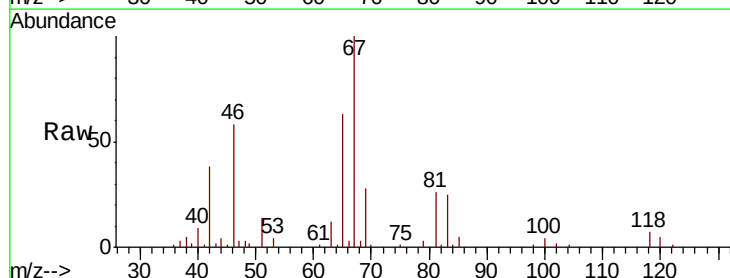


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

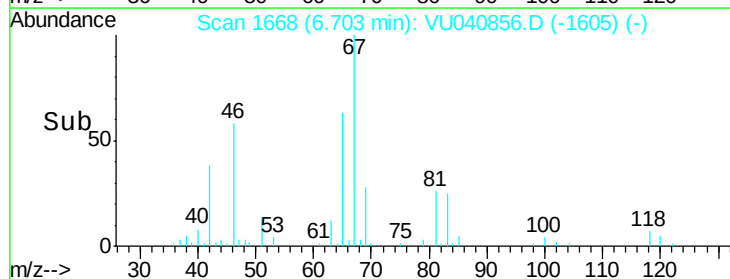
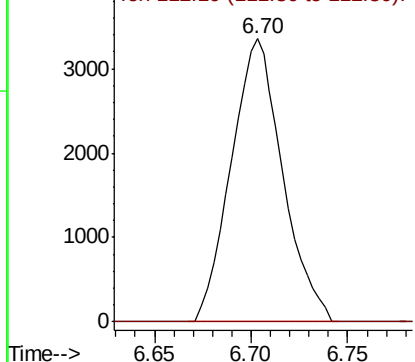


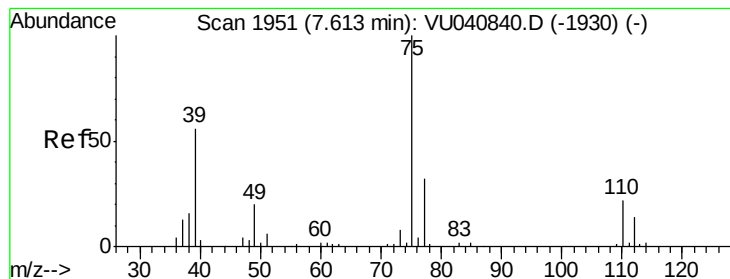
#37
1,2-Dichloropropane
Concen: 0.574 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040856.D
Acq: 20 Oct 2020 18:43

Tgt Ion: 63 Resp: 6202
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



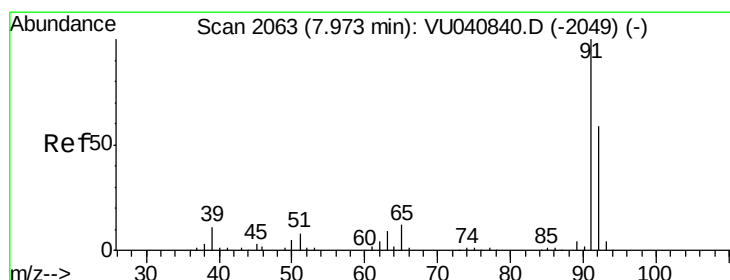
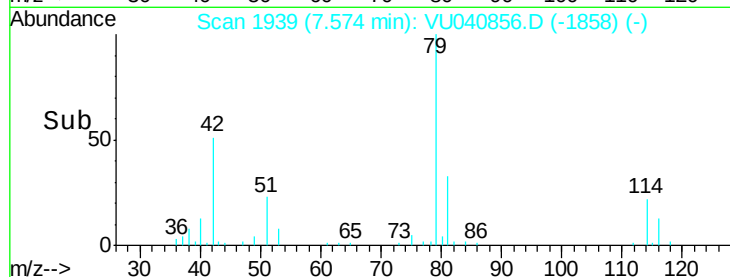
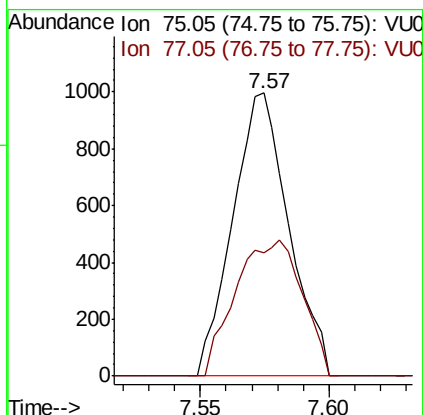
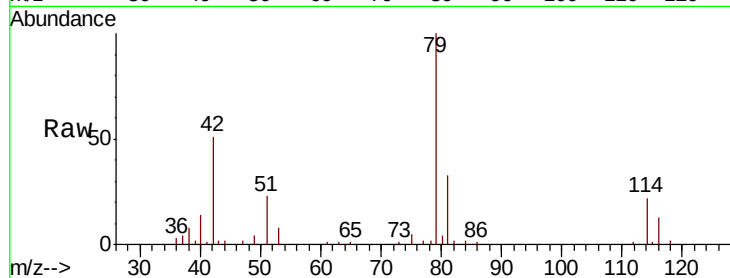


#39

cis-1,3-Dichloropropene
 Concen: 0.102 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

Instrument :
 MSVOA_U
 ClientSampled :
 ETZ49

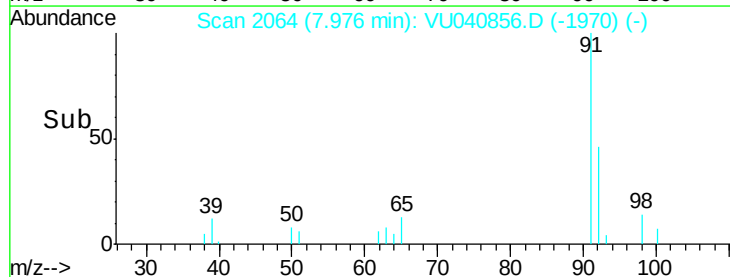
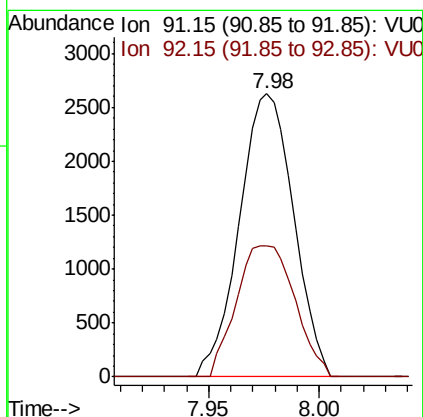
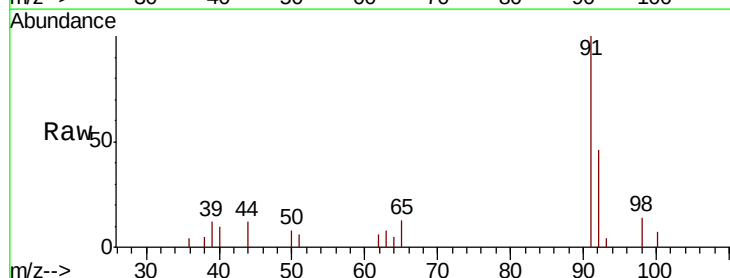
Tot Ion: 75 Resp: 1510
 Ion Ratio Lower Upper
 75 100
 77 43.4 20.5 38.1#

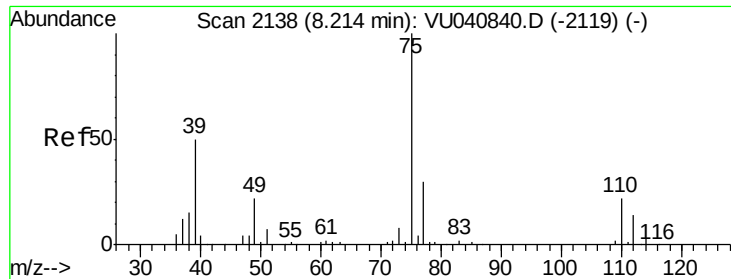


#42

Toluene
 Concen: 0.113 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

Tgt Ion: 91 Resp: 4472
 Ion Ratio Lower Upper
 91 100
 92 46.1 40.2 74.6





#44

trans-1,3-Dichloropropene

Concen: 0.073 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

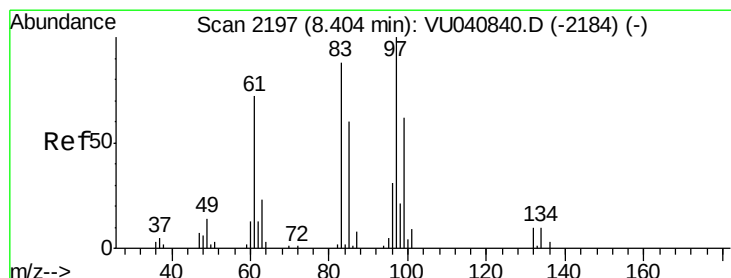
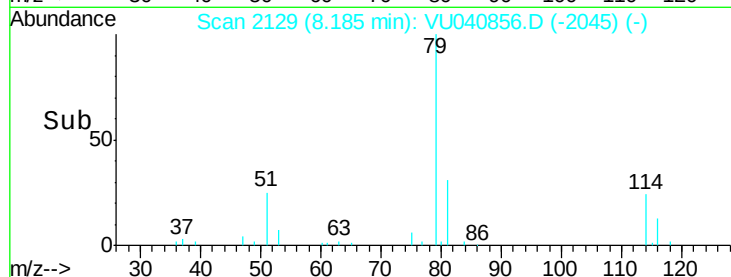
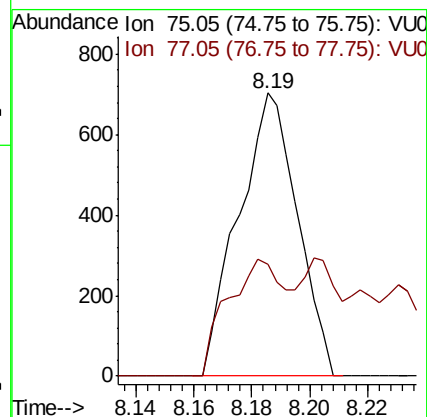
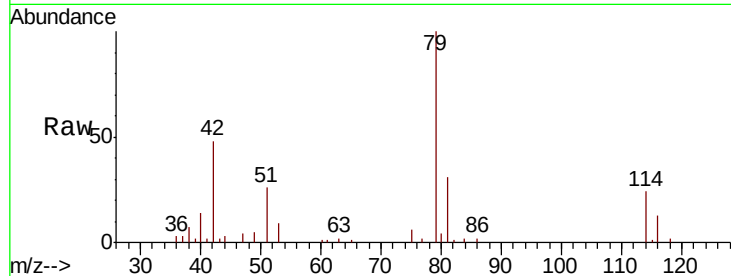
ETZ49

Tot Ion: 75 Resp: 990

Ion Ratio Lower Upper

75 100

77 39.7 20.4 38.0#



#45

1,1,2-Trichloroethane

Concen: 0.097 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.15 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Tgt Ion: 97 Resp: 784

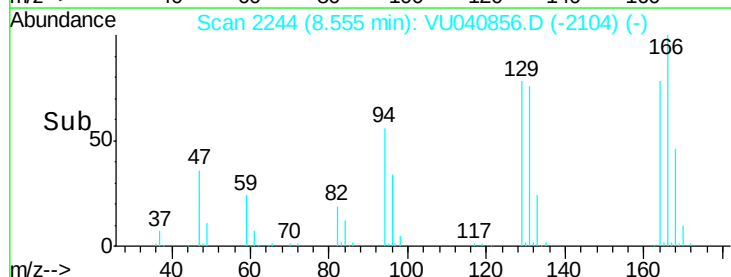
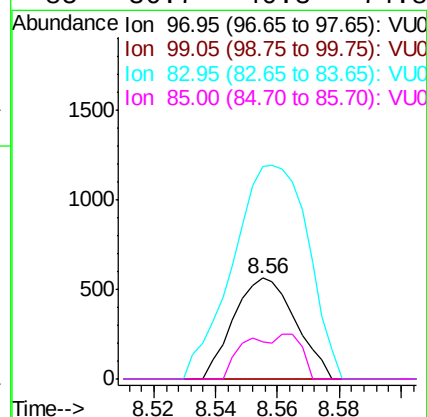
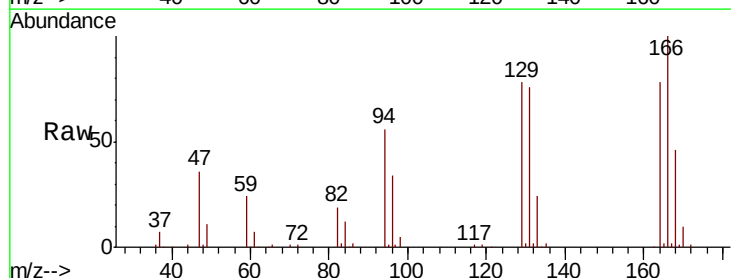
Ion Ratio Lower Upper

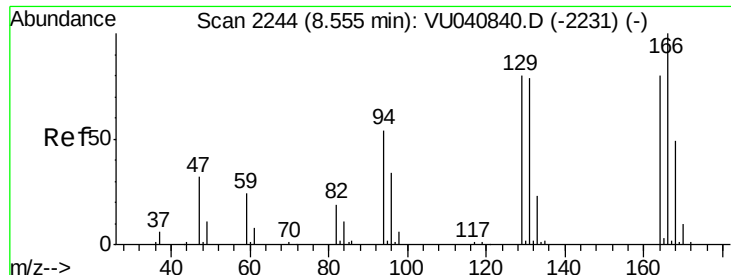
97 100

99 0.0 44.0 81.6#

83 210.9 62.9 116.9#

85 36.7 40.3 74.8#





#47

Tetrachloroethene

Concen: 11.675 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampled :

ETZ49

Tot Ion:164 Resp: 83668

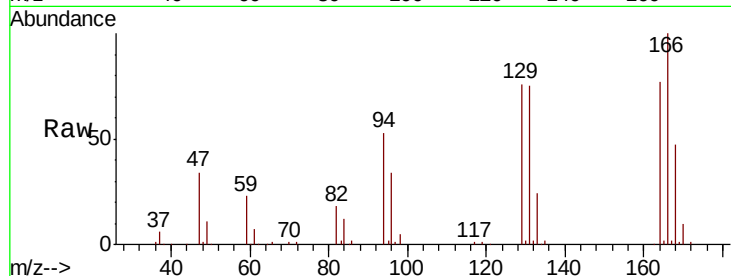
Ion Ratio Lower Upper

164 100

129 98.5 68.8 127.8

131 96.7 66.7 123.9

166 129.2 83.9 155.7

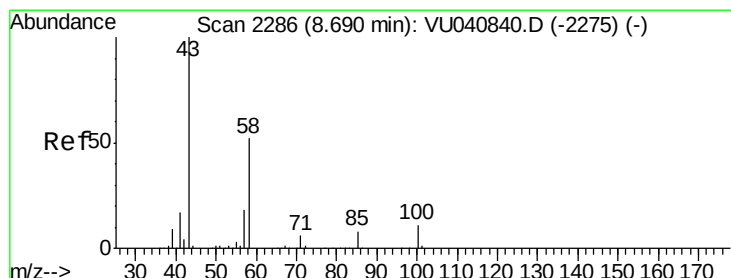
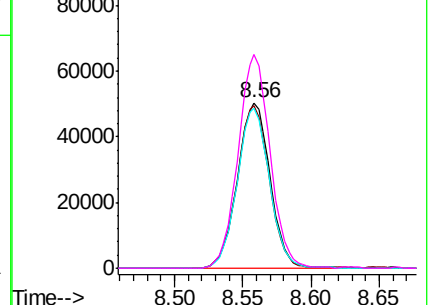
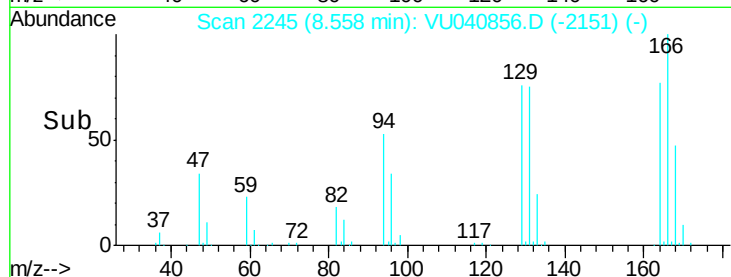


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.780 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Tgt Ion: 43 Resp: 17820

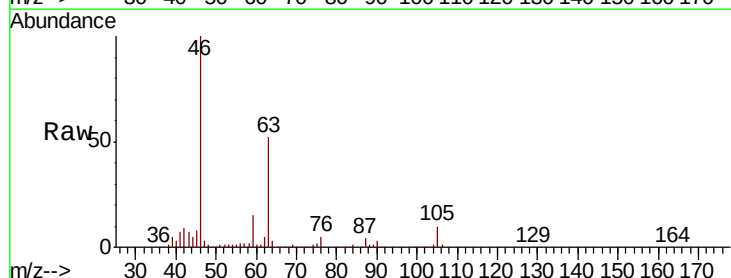
Ion Ratio Lower Upper

43 100

58 33.4 41.0 61.6#

57 32.3 14.4 21.6#

100 1.6 8.6 13.0#

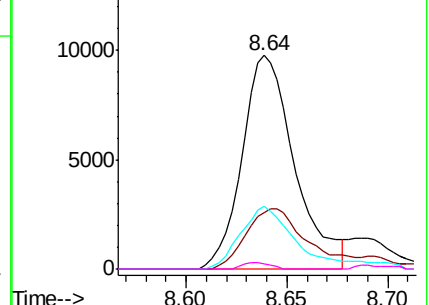
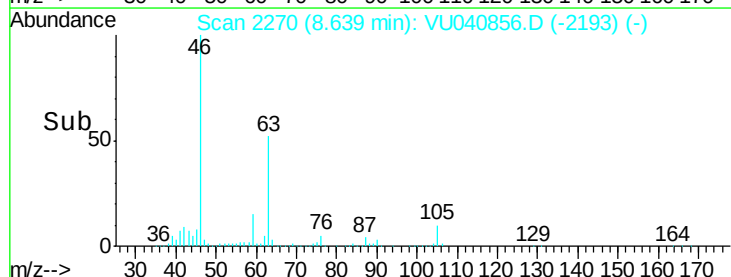


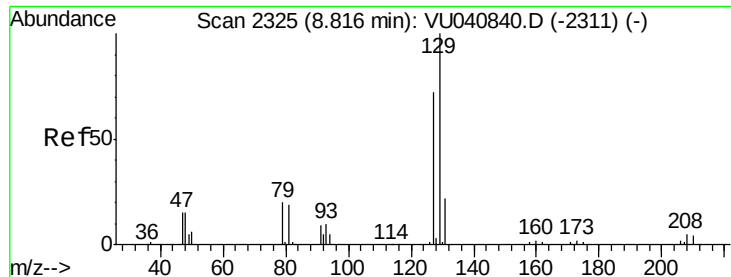
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 8.530 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.26 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampled :

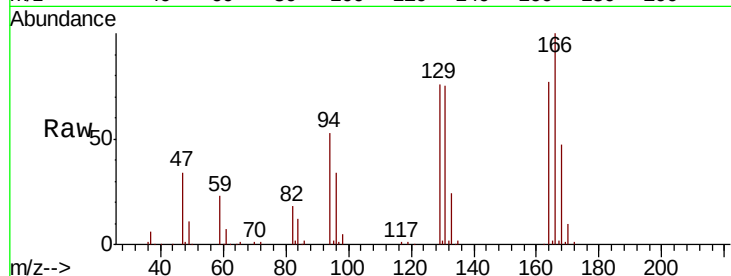
ETZ49

Tot Ion:129 Resp: 79365

Ion Ratio Lower Upper

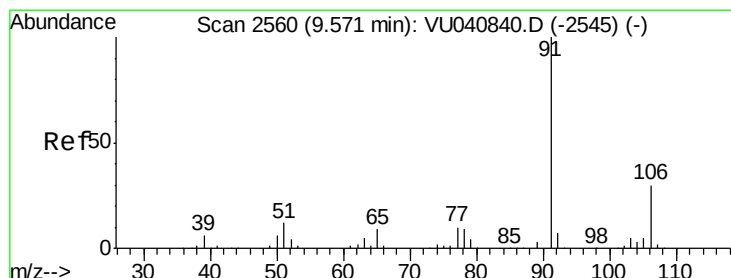
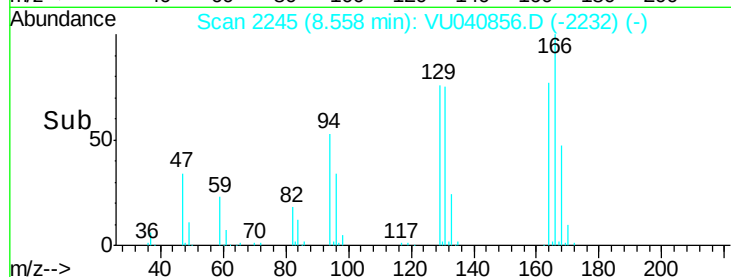
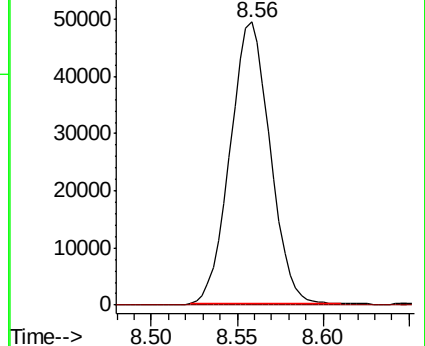
129 100

127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#52

Ethylbenzene

Concen: 0.067 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU040856.D

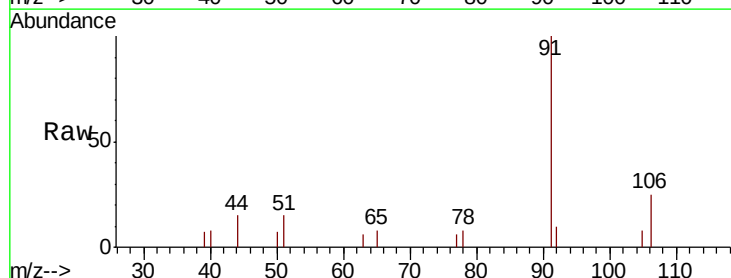
Acq: 20 Oct 2020 18:43

Tgt Ion: 91 Resp: 2873

Ion Ratio Lower Upper

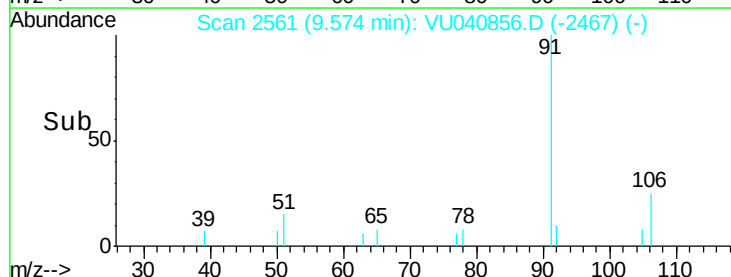
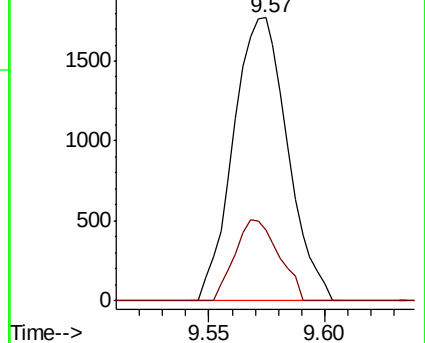
91 100

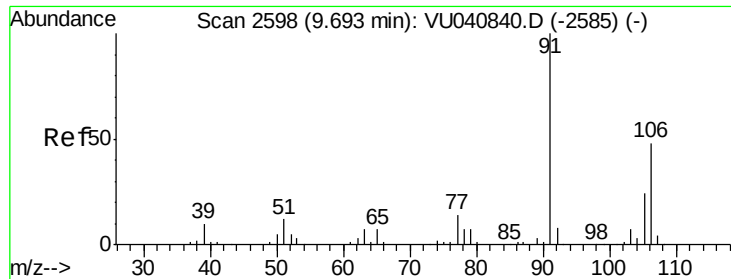
106 24.9 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.183 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

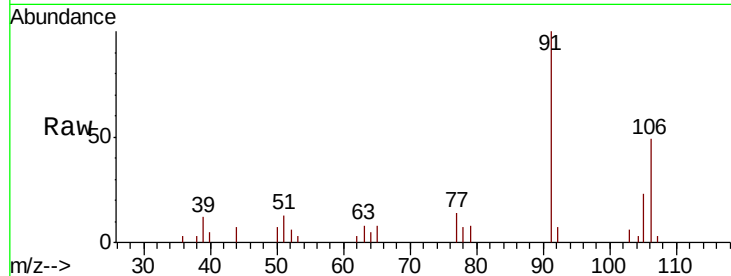
Instrument :
MSVOA_U
ClientSampleId :
ETZ49

Tot Ion:106 Resp: 2851

Ion Ratio Lower Upper

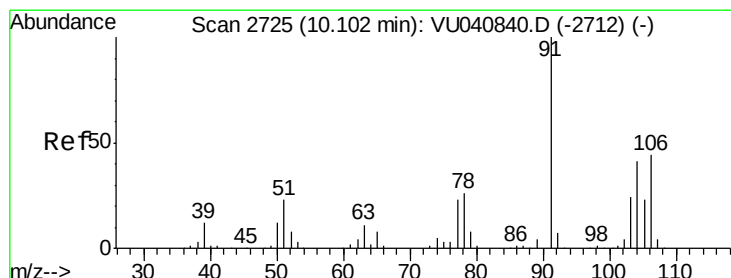
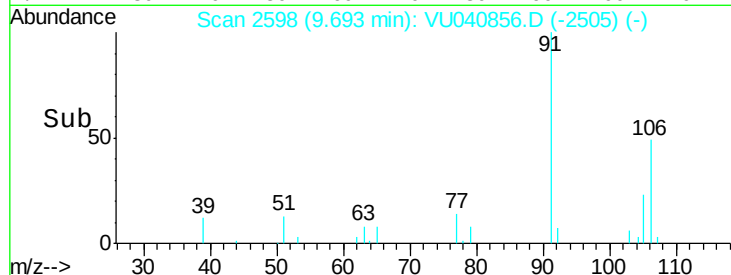
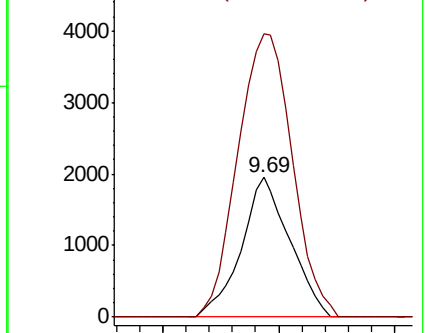
106 100

91 202.6 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.069 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040856.D

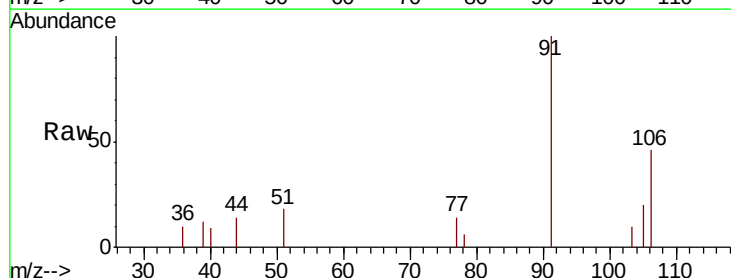
Acq: 20 Oct 2020 18:43

Tgt Ion:106 Resp: 1030

Ion Ratio Lower Upper

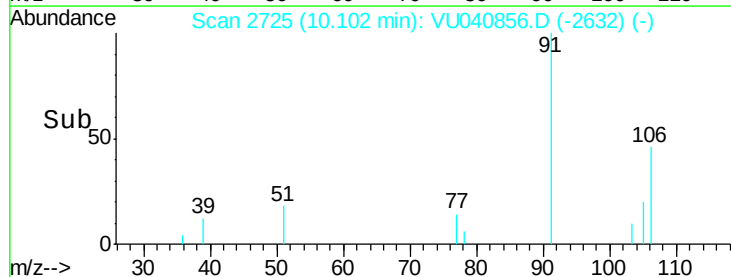
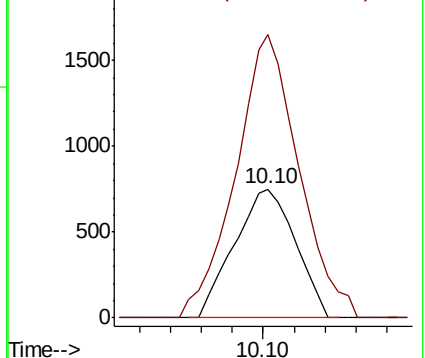
106 100

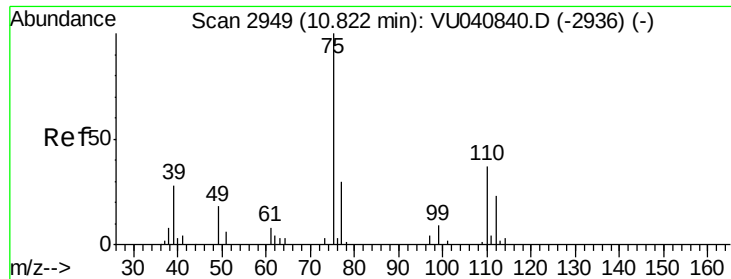
91 219.7 160.2 297.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

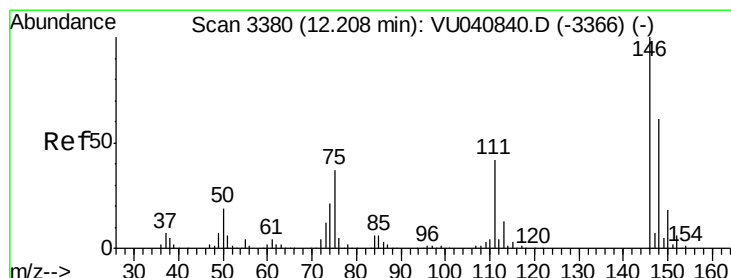
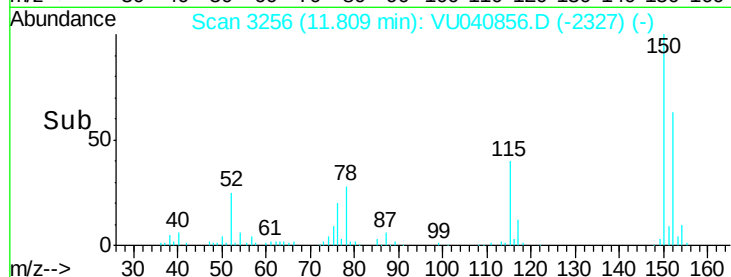
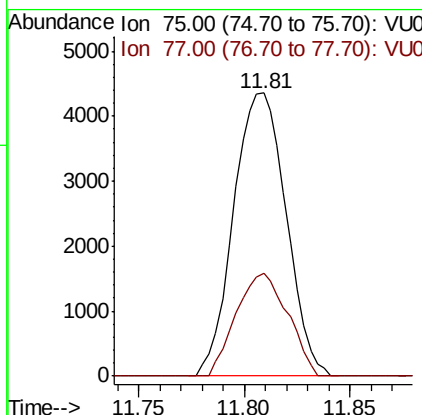
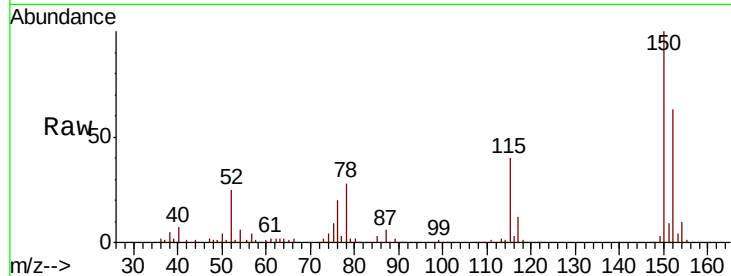




#59
 1,2,3-Trichloropropane
 Concen: 0.950 ug/L
 RT: 11.81 min Scan# 3256
 Delta R.T. 0.99 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ49

Tot Ion: 75 Resp: 7534
 Ion Ratio Lower Upper
 75 100
 77 35.6 26.4 39.6



#65
 1,2-Dichlorobenzene
 Concen: 0.103 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. -0.00 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

Tgt Ion: 146 Resp: 1709
 Ion Ratio Lower Upper
 146 100
 111 62.1 34.4 51.6#
 148 73.5 50.0 75.0

