

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040836.D
 Acq On : 20 Oct 2020 04:05
 Operator : SY/MD
 Sample : L4428-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ32

Quant Time: Oct 20 05:22:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 05:12:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	117715	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	115980	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	46523	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	26413	2.71	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	54.20%
7) Chloroethane-d5	1.92	69	28947	3.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.00%
11) 1,1-Dichloroethene-d2	2.58	63	43449	2.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	45.60%#
20) 2-Butanone-d5	4.66	46	175501	56.23	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.46%
24) Chloroform-d	5.08	84	78798	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.72	65	50260	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.74	84	133320	4.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.20%
36) 1,2-Dichloropropane-d6	6.70	67	48748	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.91	98	96075	3.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.60%#
43) trans-1,3-Dichloropropene-	8.19	79	17250	3.92	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.40%
46) 2-Hexanone-d5	8.64	63	112427	49.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.18%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48571	5.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	44552	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

					Ovalue
3) Chloromethane	1.49	50	22504	2.256 ug/L #	63
5) Vinyl chloride	1.61	62	30558	2.909 ug/L #	1
8) Chloroethane	2.18	64	2907	0.435 ug/L #	51
12) 1,1-Dichloroethene	2.58	96	450	0.054 ug/L #	1
14) Carbon disulfide	2.82	76	1183	0.050 ug/L #	76
15) Methyl Acetate	3.05	43	2791	0.505 ug/L #	56
18) trans-1,2-Dichloroethene	3.37	96	8242	0.937 ug/L	96
22) cis-1,2-Dichloroethene	4.69	96	62277	6.568 ug/L	100
30) Cyclohexane	5.40	56	28802	2.005 ug/L	98
33) Benzene	5.79	78	4071	0.109 ug/L	100
34) Trichloroethene	6.56	95	7549	0.782 ug/L	99
35) Methylcyclohexane	6.77	83	8337	0.609 ug/L	95
37) 1,2-Dichloropropane	6.70	63	5643	0.544 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1159	0.082 ug/L #	63
42) Toluene	7.98	91	1346	0.035 ug/L	91
44) trans-1,3-Dichloropropene	8.19	75	800	0.061 ug/L	95
47) Tetrachloroethene	8.55	164	2658	0.386 ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 05:12:18 2020
Response via : Initial Calibration

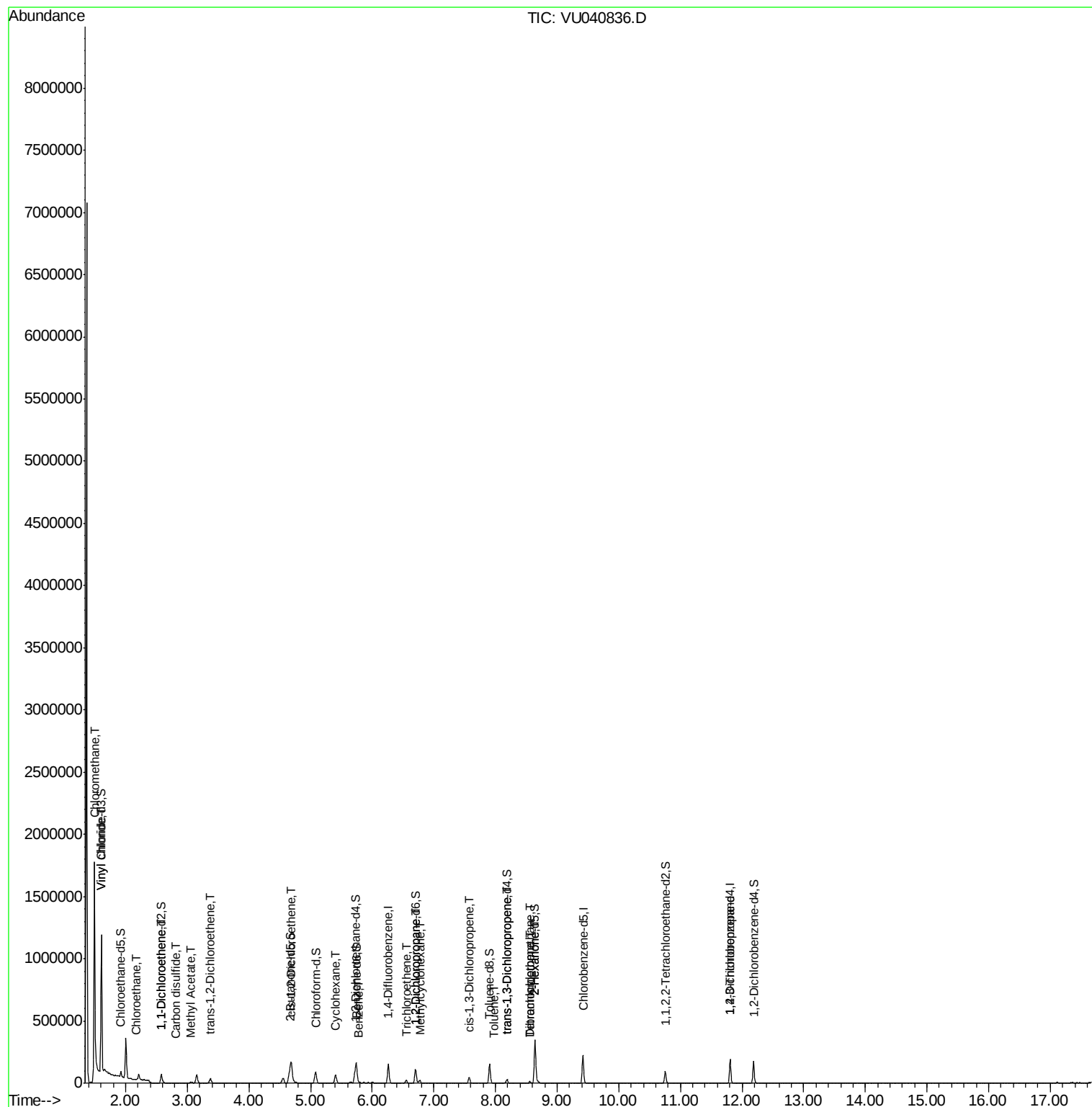
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	16241	2.636	ug/L #	77
49) Dibromochloromethane	8.56	129	2707	0.303	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	6386	0.837	ug/L	94

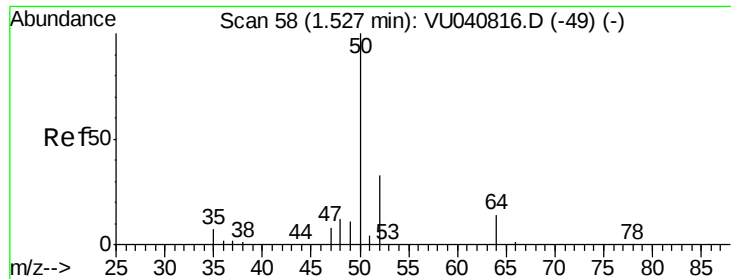
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 2.256 ug/L

RT: 1.49 min Scan# 48

Delta R.T. -0.03 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

Instrument :

MSVOA_U

ClientSampled :

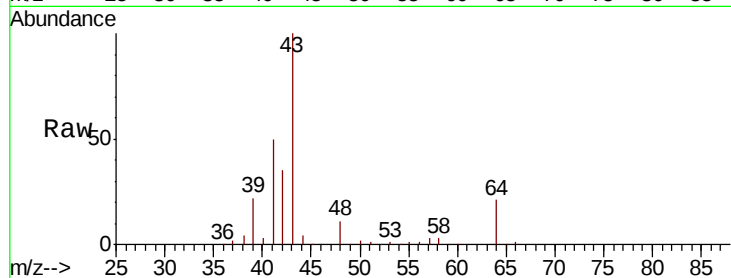
ETZ32

Tot Ion: 50 Resp: 22504

Ion Ratio Lower Upper

50 100

52 10.6 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU040836.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU040836.D (-1) (-)

1.49

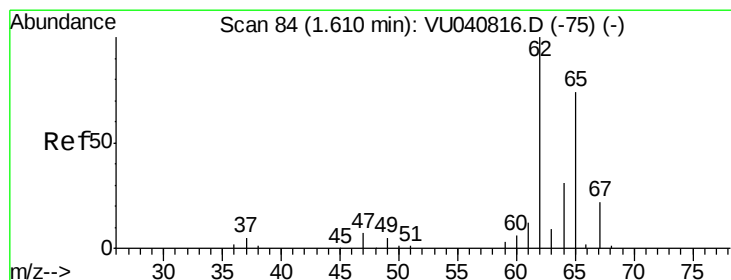
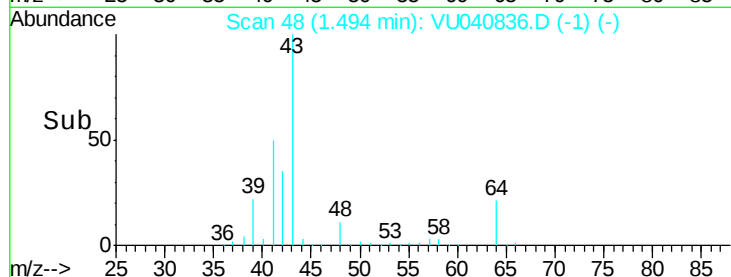
15000

10000

5000

0

Time-->



#5

Vinyl chloride

Concen: 2.909 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040836.D

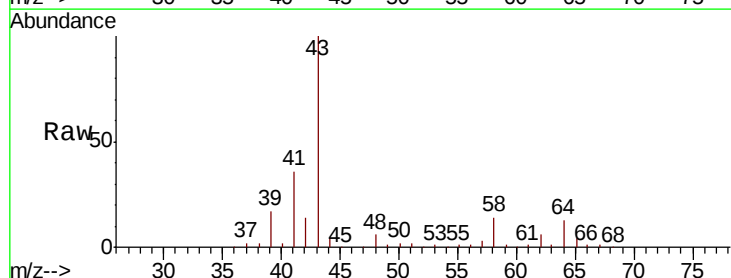
Acq: 20 Oct 2020 04:05

Tgt Ion: 62 Resp: 30558

Ion Ratio Lower Upper

62 100

64 222.8 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU040836.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU040836.D (-1) (-)

80000

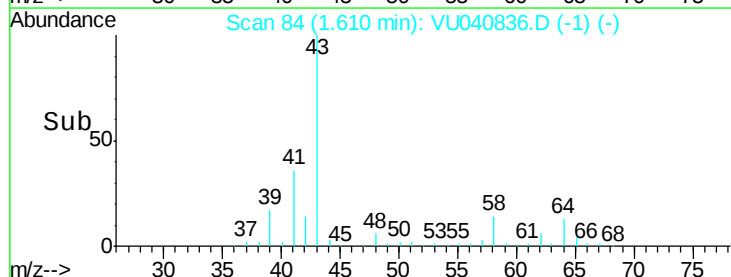
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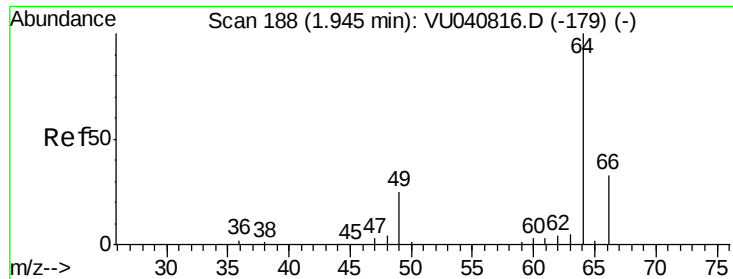
40000

20000

0

Time-->





#8

Chloroethane

Concen: 0.435 ug/L

RT: 2.18 min Scan# 261

Delta R.T. 0.23 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

Instrument :

MSVOA_U

ClientSampleId :

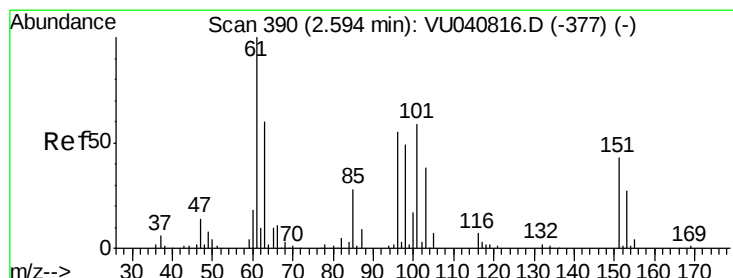
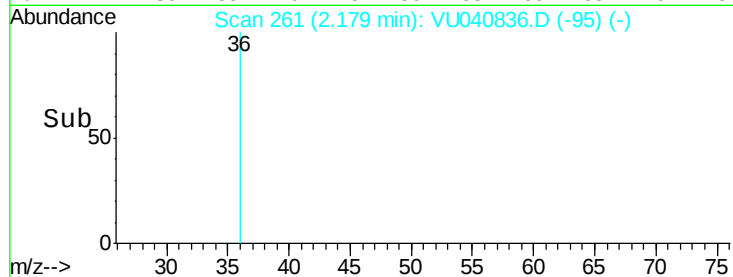
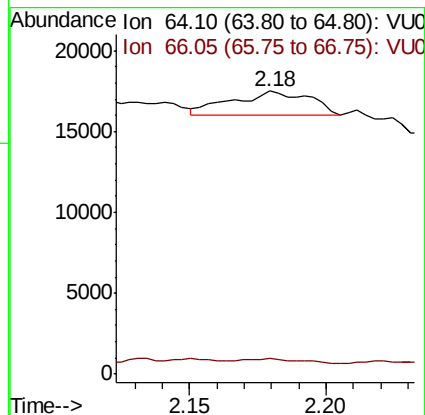
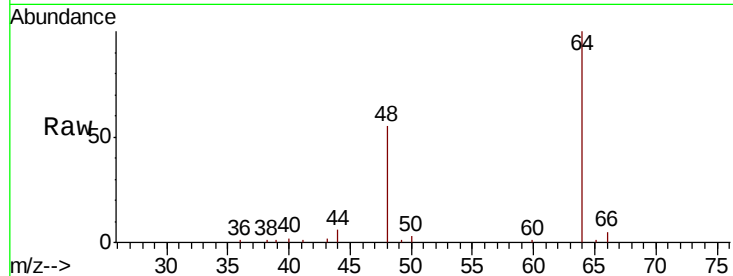
ETZ32

Tot Ion: 64 Resp: 2907

Ion Ratio Lower Upper

64 100

66 5.4 23.3 43.3#



#12

1,1-Dichloroethene

Concen: 0.054 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

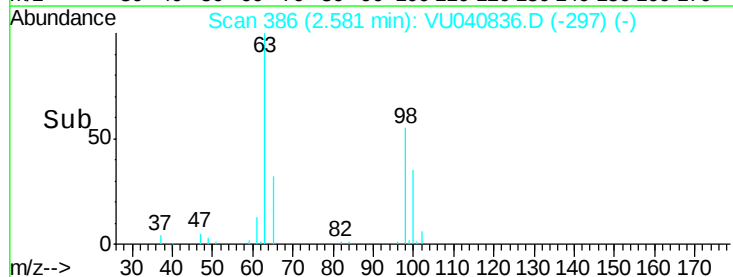
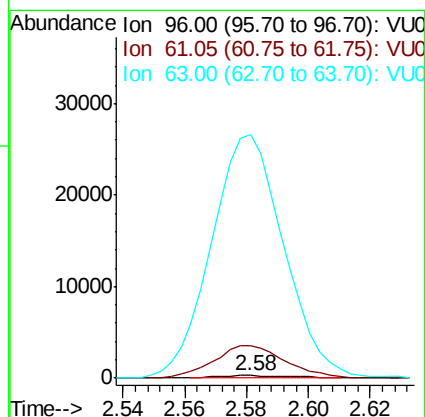
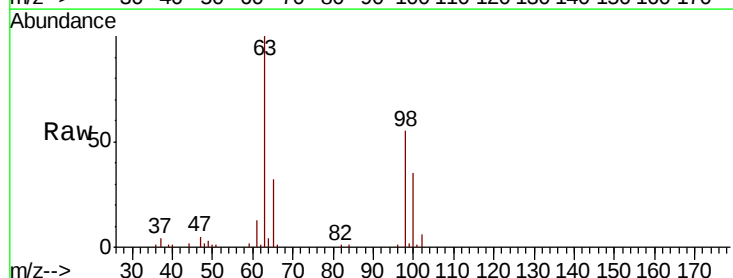
Tgt Ion: 96 Resp: 450

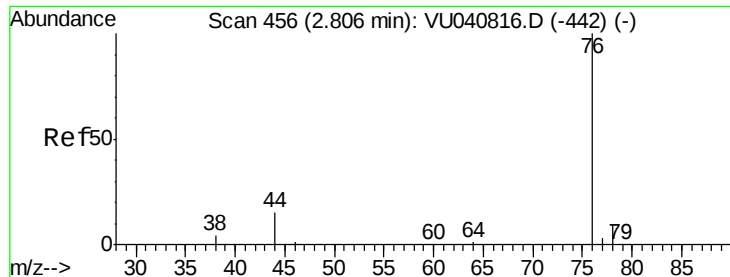
Ion Ratio Lower Upper

96 100

61 1328.7 128.8 239.2#

63 9928.4 84.6 157.2#





#14

Carbon disulfide

Concen: 0.050 ug/L

RT: 2.82 min Scan# 459

Delta R.T. 0.01 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

Instrument :

MSVOA_U

ClientSampleId :

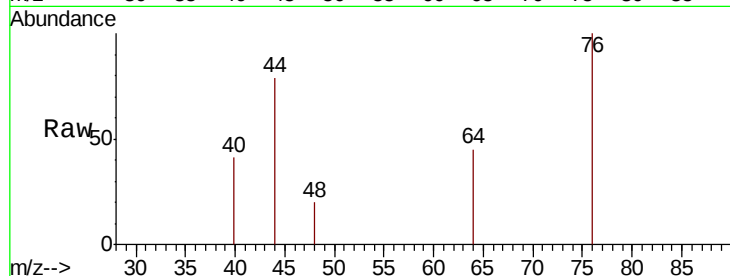
ETZ32

Tot Ion: 76 Resp: 1183

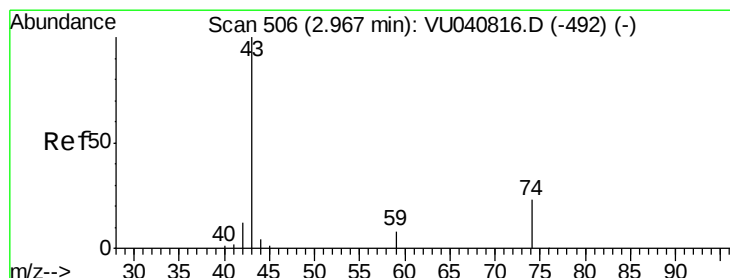
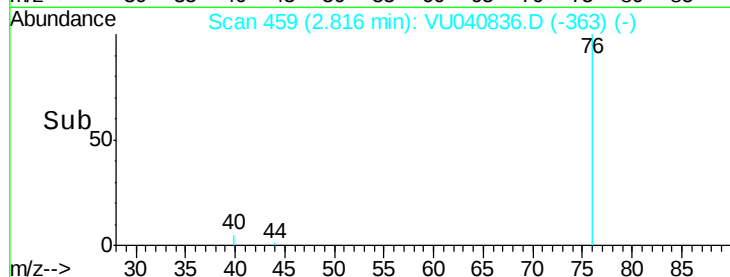
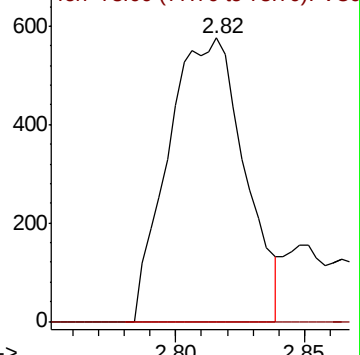
Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU040836.D (-442) (-)



#15

Methyl Acetate

Concen: 0.505 ug/L

RT: 3.05 min Scan# 533

Delta R.T. 0.09 min

Lab File: VU040836.D

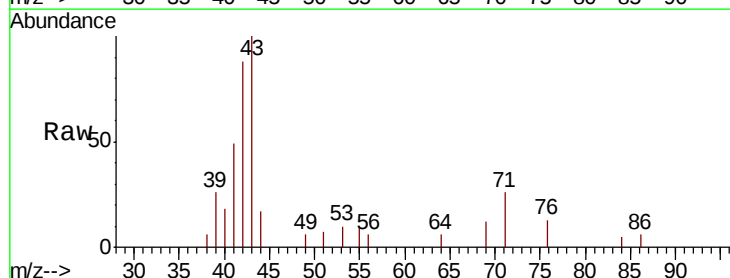
Acq: 20 Oct 2020 04:05

Tgt Ion: 43 Resp: 2791

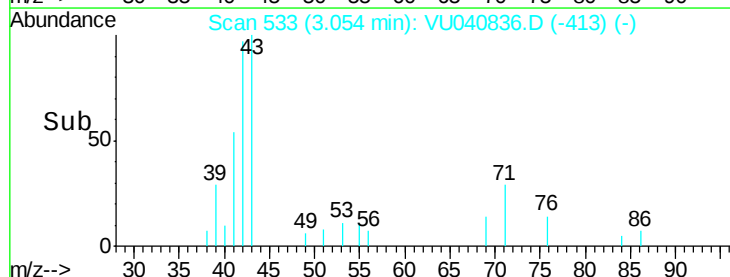
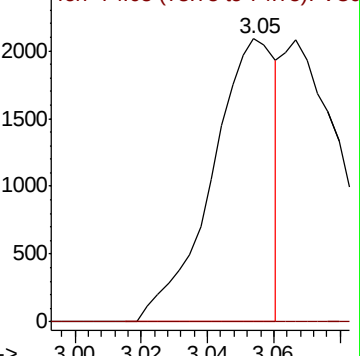
Ion Ratio Lower Upper

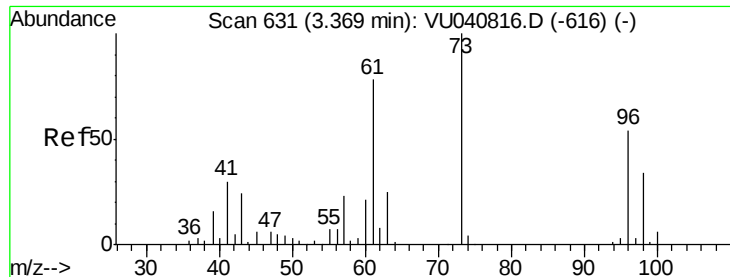
43 100

74 0.0 16.5 24.7#



Abundance Ion 43.05 (42.75 to 43.75): VU040836.D (-492) (-)

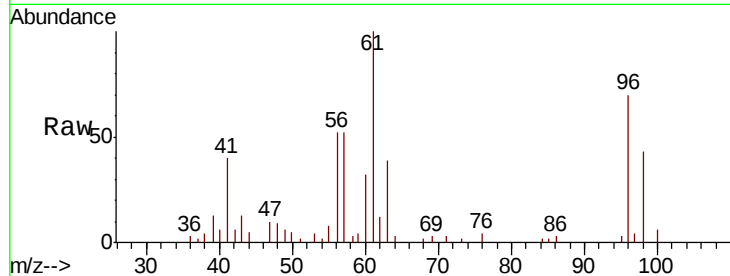




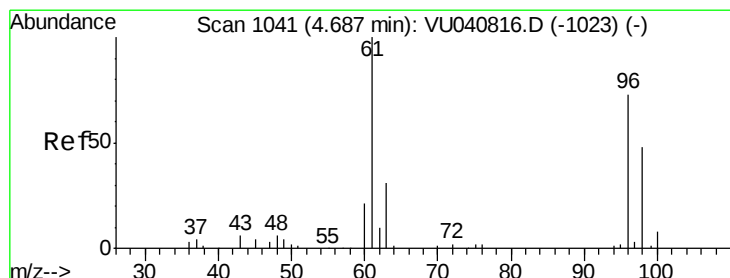
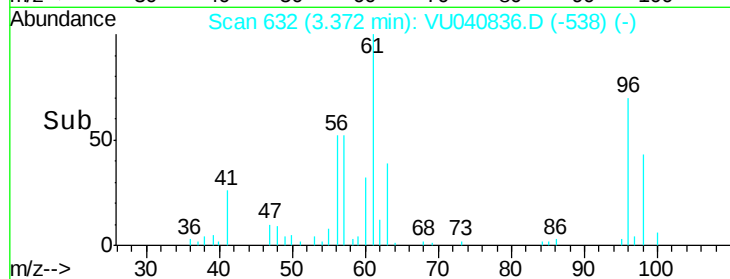
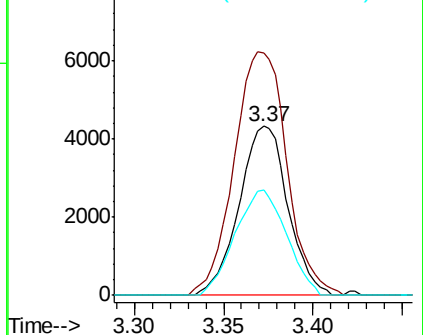
#18
 trans-1,2-Dichloroethene
 Concen: 0.937 ug/L
 RT: 3.37 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VU040836.D
 Acq: 20 Oct 2020 04:05

Instrument :
 MSVOA_U
 ClientSampled :
 ETZ32

Tot Ion: 96 Resp: 8242
 Ion Ratio Lower Upper
 96 100
 61 143.8 105.9 196.7
 98 62.5 43.8 81.3

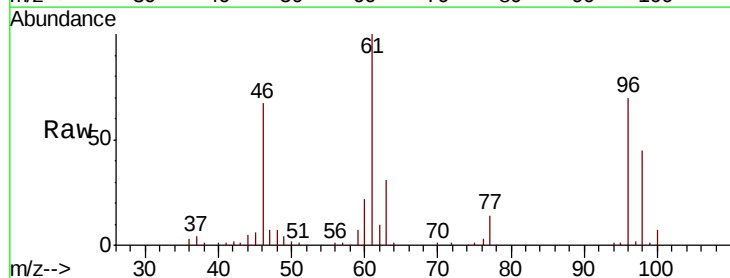


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

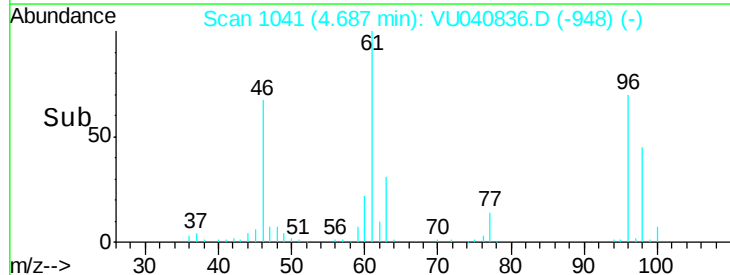
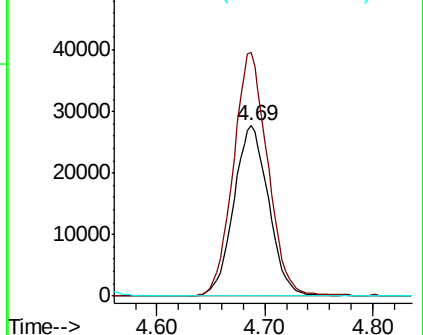


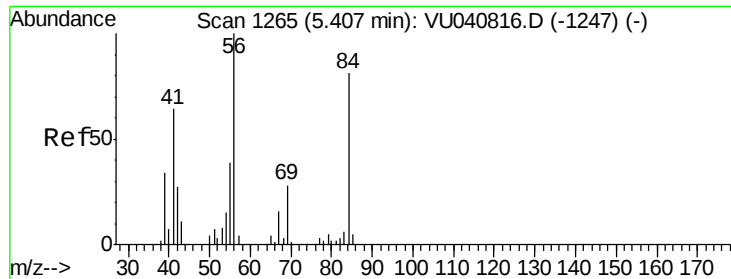
#22
 cis-1,2-Dichloroethene
 Concen: 6.568 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040836.D
 Acq: 20 Oct 2020 04:05

Tgt Ion: 96 Resp: 62277
 Ion Ratio Lower Upper
 96 100
 61 143.2 99.8 185.4
 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

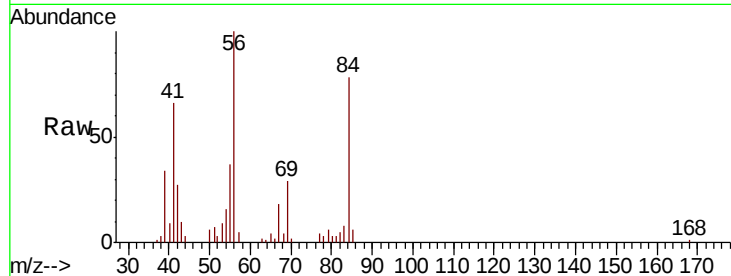




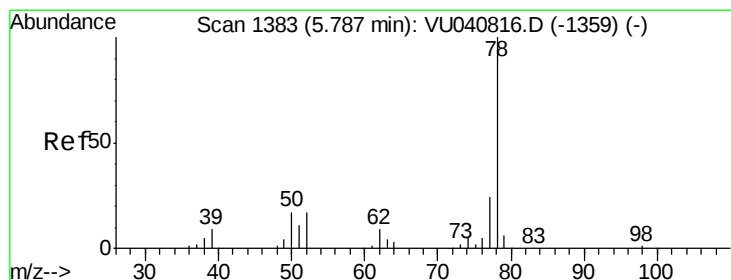
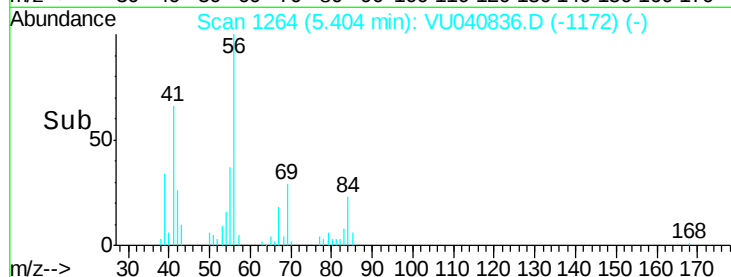
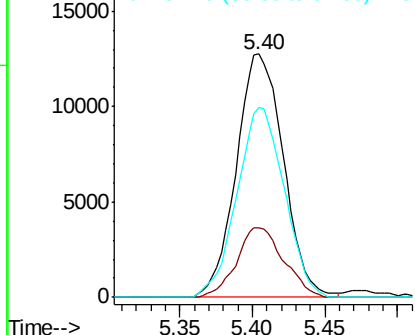
#30
Cyclohexane
Concen: 2.005 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU040836.D
Acq: 20 Oct 2020 04:05

Instrument :
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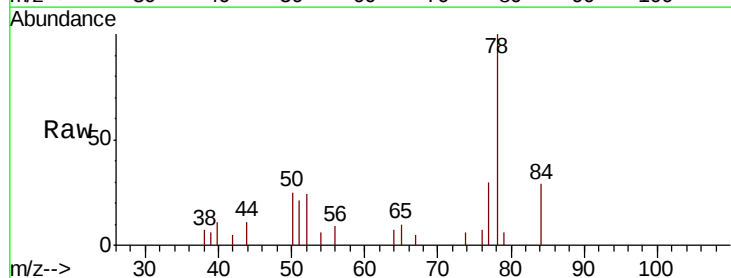
Tot Ion: 56 Resp: 28802
Ion Ratio Lower Upper
56 100
69 28.5 23.8 35.8
84 78.5 64.0 96.0



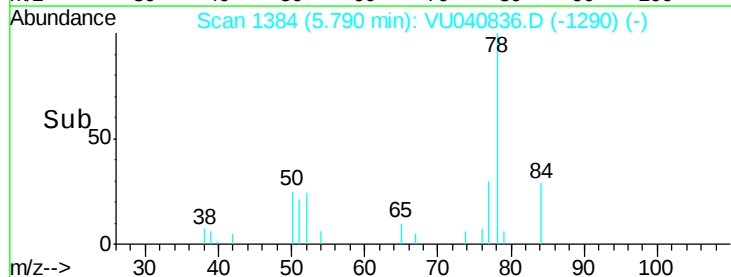
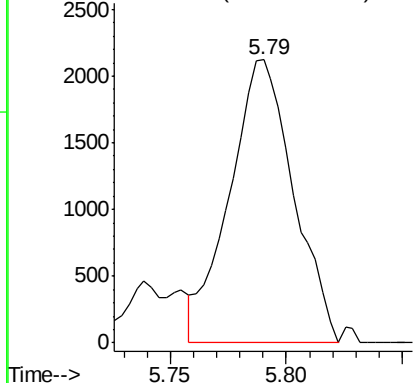
Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

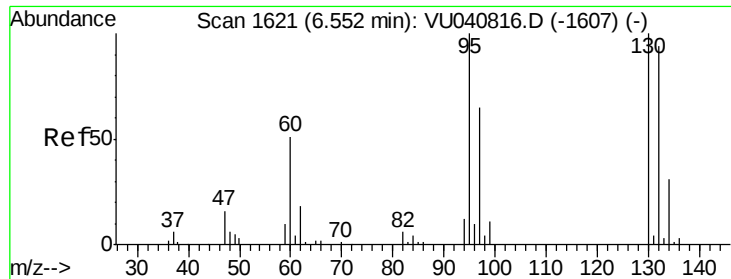


#33
Benzene
Concen: 0.109 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040836.D
Acq: 20 Oct 2020 04:05
Tgt Ion: 78 Resp: 4071



Abundance Ion 78.10 (77.80 to 78.80): VU0

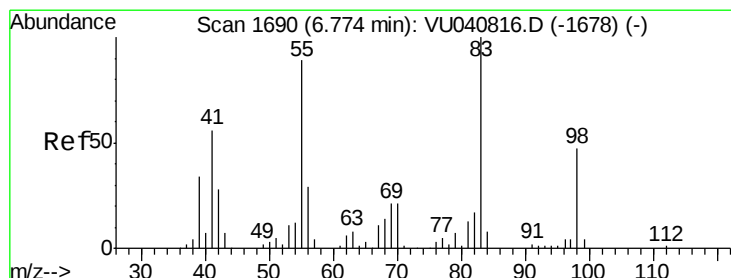
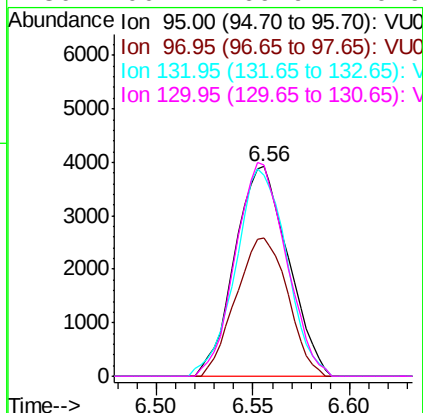
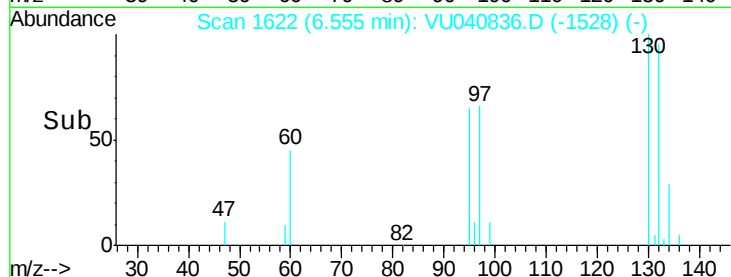
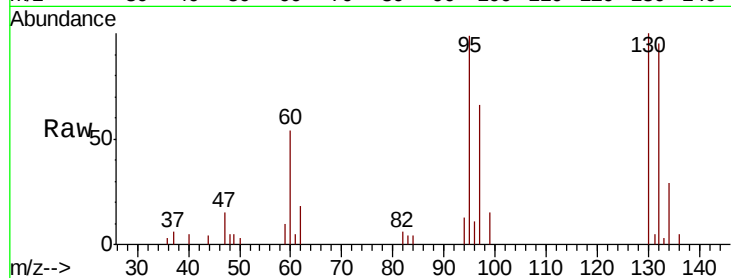




#34
 Trichloroethene
 Concen: 0.782 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040836.D
 Acq: 20 Oct 2020 04:05

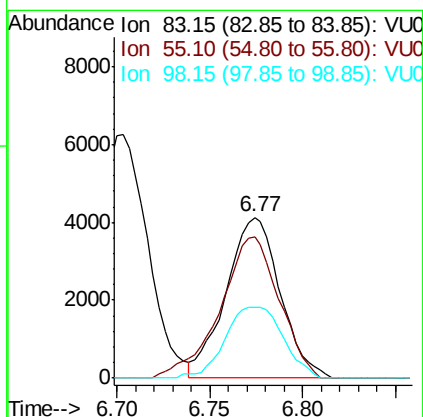
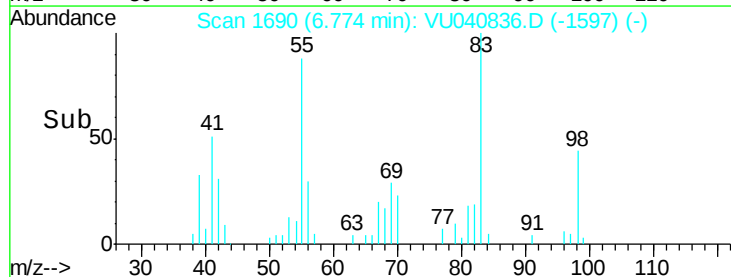
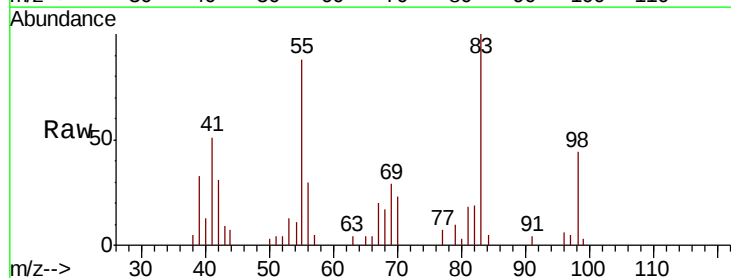
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ32

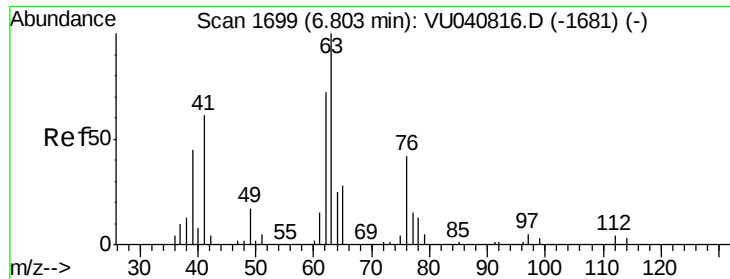
Tot Ion: 95 Resp: 7549
 Ion Ratio Lower Upper
 95 100
 97 66.2 45.5 84.5
 132 96.1 67.5 125.4
 130 100.7 69.9 129.9



#35
 Methylcyclohexane
 Concen: 0.609 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040836.D
 Acq: 20 Oct 2020 04:05

Tgt Ion: 83 Resp: 8337
 Ion Ratio Lower Upper
 83 100
 55 95.5 70.7 106.1
 98 47.4 38.4 57.6

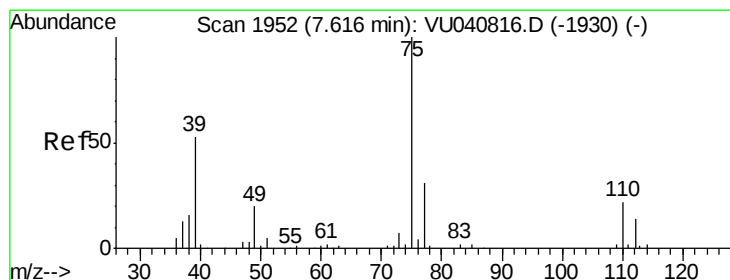
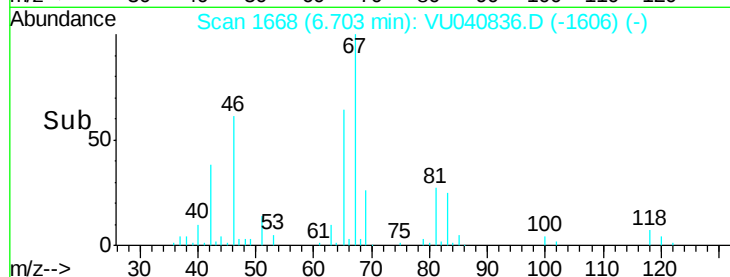
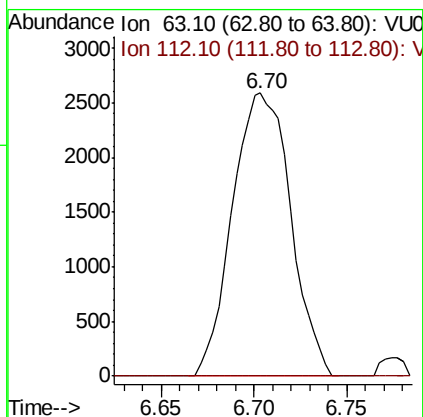
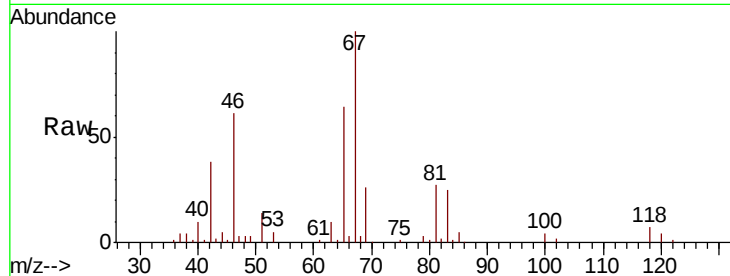




#37
 1,2-Dichloropropane
 Concen: 0.544 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040836.D
 Acq: 20 Oct 2020 04:05

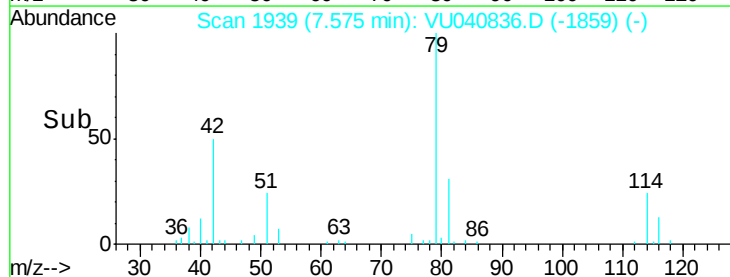
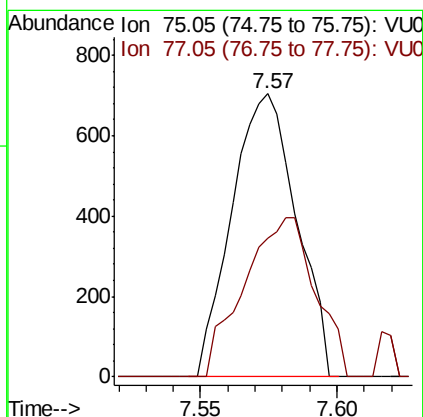
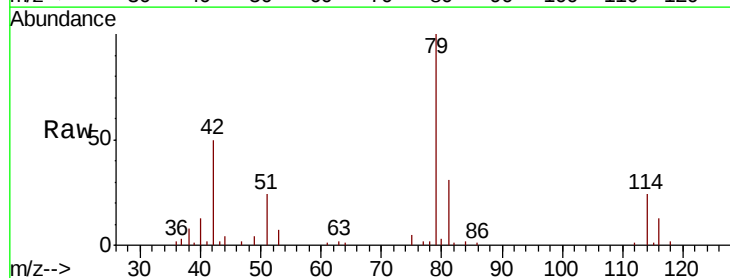
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ32

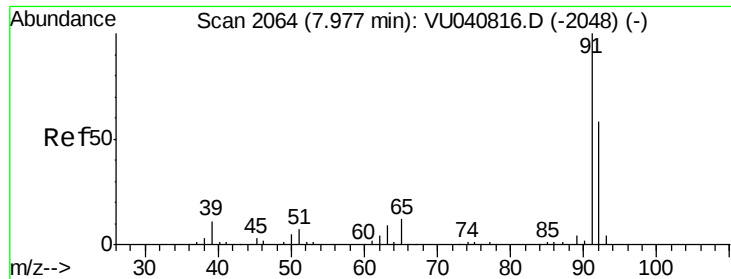
Tot Ion: 63 Resp: 5643
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.082 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040836.D
 Acq: 20 Oct 2020 04:05

Tgt Ion: 75 Resp: 1159
 Ion Ratio Lower Upper
 75 100
 77 49.1 20.5 38.1#





#42

Toluene

Concen: 0.035 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

Instrument :

MSVOA_U

ClientSampleId :

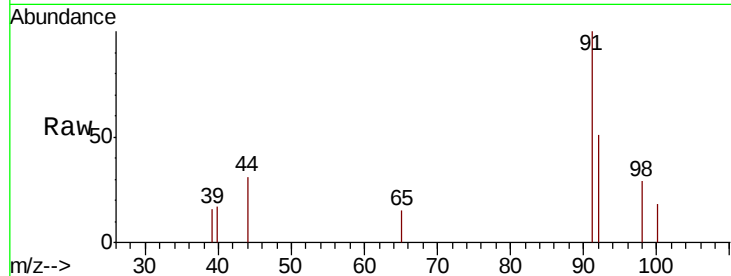
ETZ32

Tot Ion: 91 Resp: 1346

Ion Ratio Lower Upper

91 100

92 50.6 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.98

800

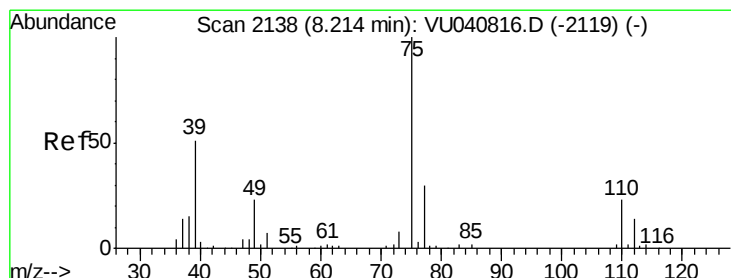
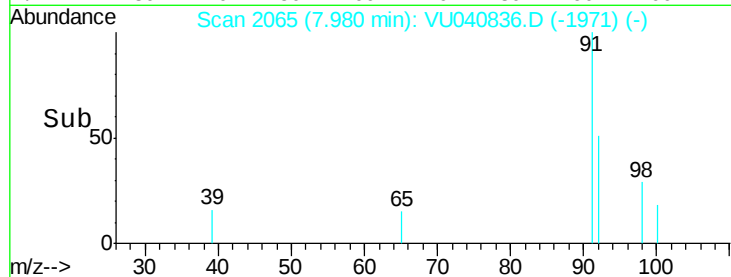
600

400

200

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.061 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040836.D

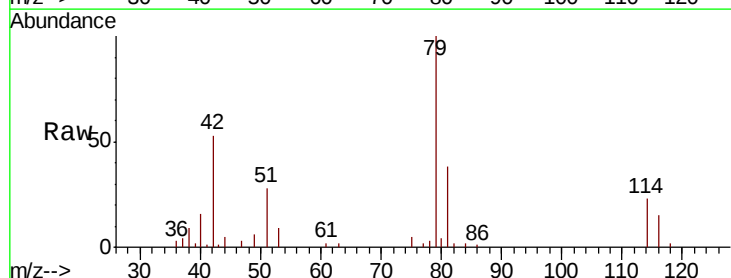
Acq: 20 Oct 2020 04:05

Tgt Ion: 75 Resp: 800

Ion Ratio Lower Upper

75 100

77 31.7 20.4 38.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.19

500

400

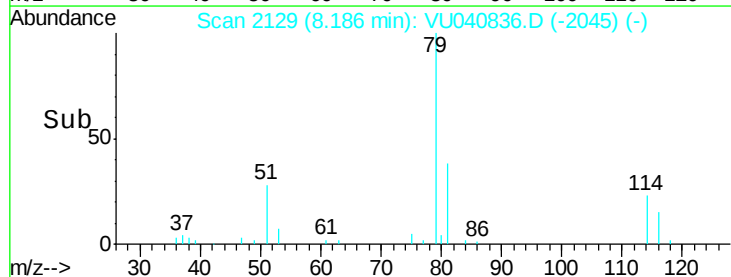
300

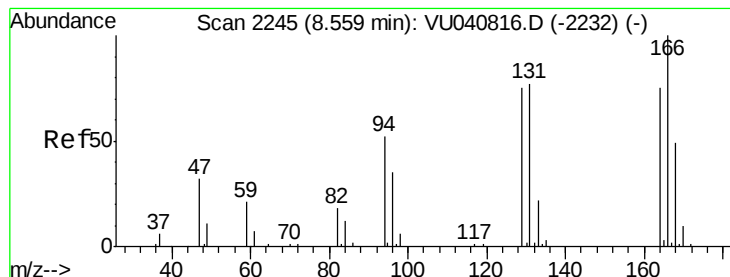
200

100

0

Time-->





#47

Tetrachloroethene

Concen: 0.386 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.01 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

Instrument :

MSVOA_U

ClientSampleId :

ETZ32

Tot Ion:164 Resp: 2658

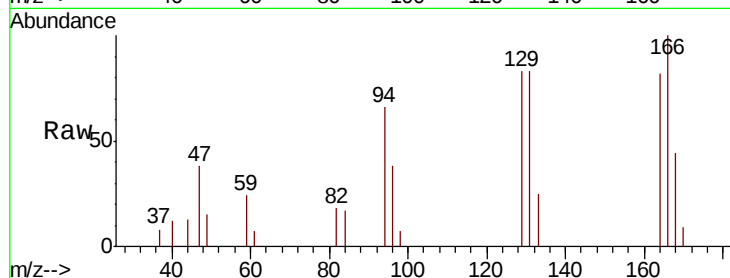
Ion Ratio Lower Upper

164 100

129 100.9 68.8 127.8

131 101.6 66.7 123.9

166 121.8 83.9 155.7

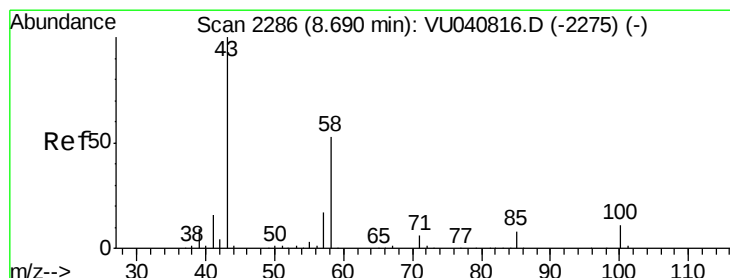
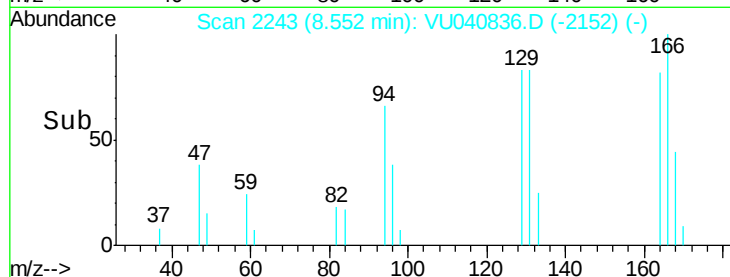
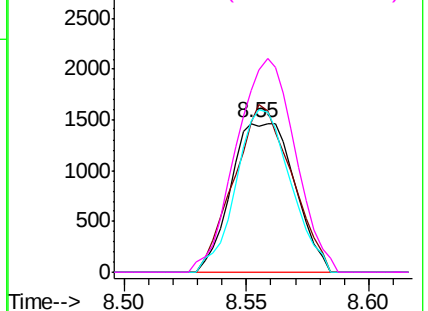


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.636 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

Tgt Ion: 43 Resp: 16241

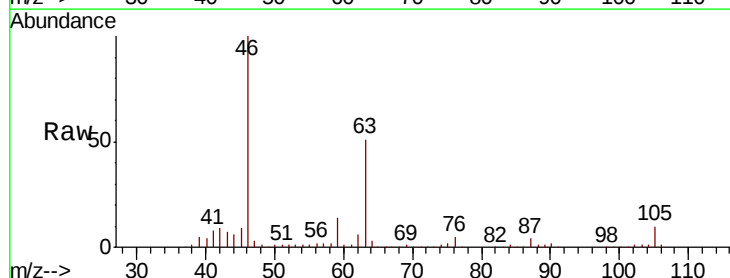
Ion Ratio Lower Upper

43 100

58 39.0 41.0 61.6#

57 34.5 14.4 21.6#

100 2.3 8.6 13.0#

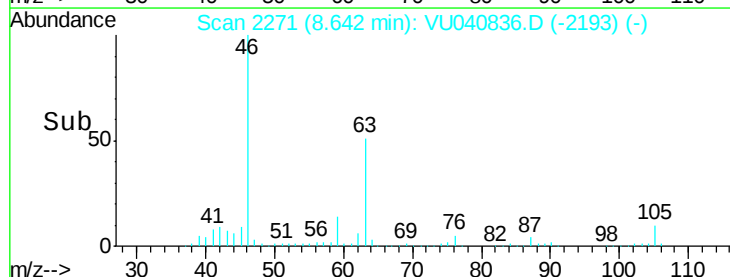
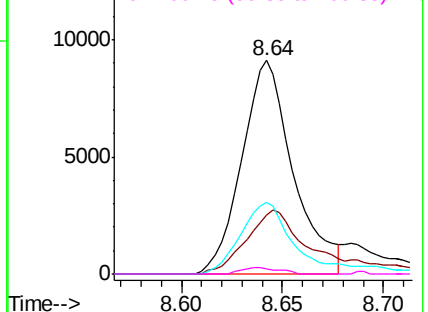


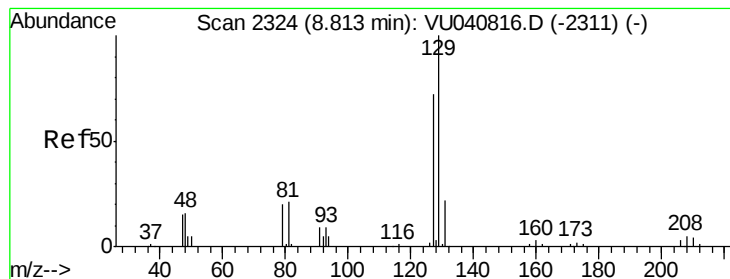
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.303 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU040836.D

Acq: 20 Oct 2020 04:05

Instrument :

MSVOA_U

ClientSampleId :

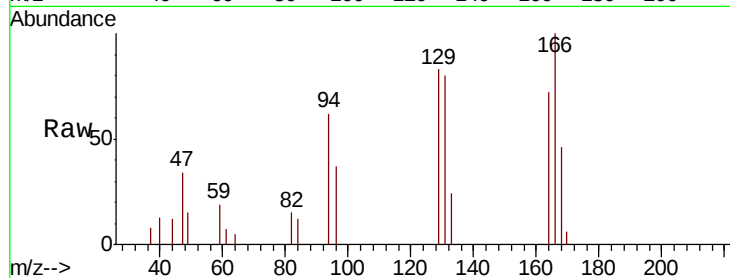
ETZ32

Tot Ion:129 Resp: 2707

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

8.56

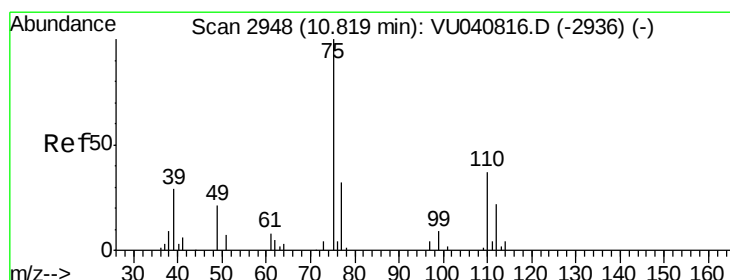
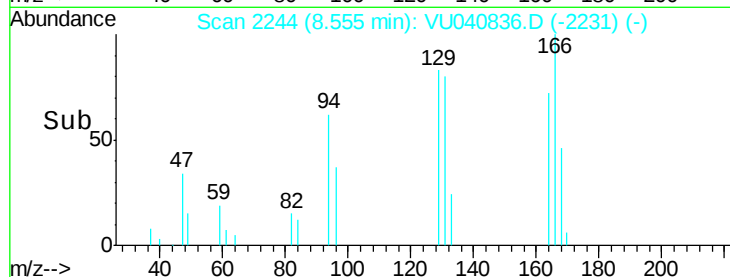
1500

1000

500

0

Time--> 8.50 8.55 8.60



#59

1,2,3-Trichloropropane

Concen: 0.837 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU040836.D

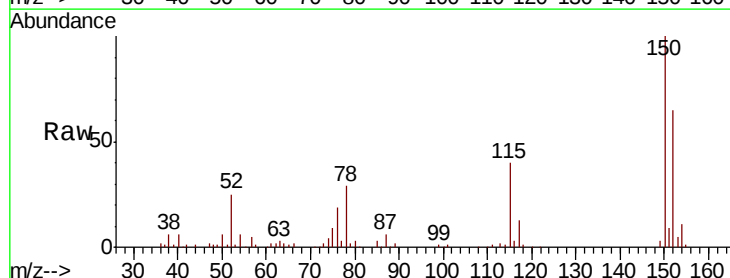
Acq: 20 Oct 2020 04:05

Tgt Ion: 75 Resp: 6386

Ion Ratio Lower Upper

75 100

77 36.6 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

5000

4000

3000

2000

1000

0

Time--> 11.75 11.80 11.85

