

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111020\
 Data File : VU041184.D
 Acq On : 10 Nov 2020 18:01
 Operator : SY/MD
 Sample : L4646-18
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W2

Quant Time: Nov 11 00:53:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 11 00:43:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	52802	5.00	ug/L	0.01
28) Chlorobenzene-d5	9.42	117	53496	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	24269	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.59	65	13324	3.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.00%
7) Chloroethane-d5	1.92	69	12409	3.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.80%
11) 1,1-Dichloroethene-d2	2.58	63	22954	2.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	52.80%#
20) 2-Butanone-d5	4.75	46	61171	41.87	ug/L	0.11
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.74%
24) Chloroform-d	5.10	84	37802	4.82	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.74	65	24741	5.09	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.75	84	62792	4.39	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
36) 1,2-Dichloropropane-d6	6.72	67	23388	5.02	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.91	98	50484	3.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.80%
43) trans-1,3-Dichloropropene-	8.19	79	8736	4.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.60%
46) 2-Hexanone-d5	8.65	63	50247	46.22	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.44%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	21695	5.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	23771	5.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.60	62	191	0.039 ug/L #	1
8) Chloroethane	1.95	64	337	0.107 ug/L #	43
22) cis-1,2-Dichloroethene	4.70	96	1261	0.323 ug/L	87
25) Chloroform	5.12	83	541	0.071 ug/L #	74
27) 1,2-Dichloroethane	5.75	62	325	0.057 ug/L #	74
30) Cyclohexane	5.41	56	1440	0.223 ug/L #	92
33) Benzene	5.80	78	7110	0.445 ug/L	100
34) Trichloroethene	6.56	95	9879	2.429 ug/L	95
35) Methylcyclohexane	6.78	83	451	0.074 ug/L #	63
37) 1,2-Dichloropropane	6.72	63	2733	0.632 ug/L #	86
39) cis-1,3-Dichloropropene	7.58	75	605	0.102 ug/L #	67
42) Toluene	7.98	91	680	0.042 ug/L #	65
44) trans-1,3-Dichloropropene	8.19	75	467	0.084 ug/L	86
52) Ethylbenzene	9.57	91	875	0.051 ug/L	96
53) m,p-Xylene	9.70	106	2846	0.457 ug/L	93
56) Isopropylbenzene	10.49	105	1071	0.069 ug/L #	86
59) 1,2,3-Trichloropropane	11.81	75	3470	1.076 ug/L #	87

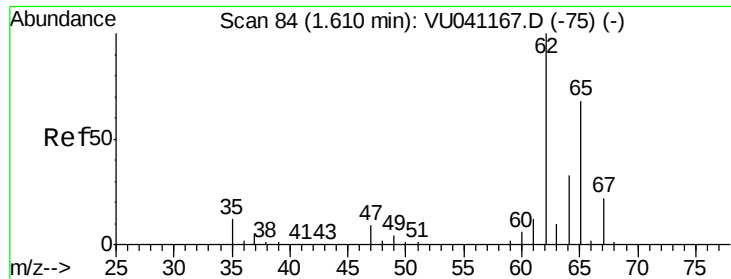
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111020\
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 11 00:43:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.83	180	169	0.042	ug/L #	79
69) Naphthalene	14.08	128	866	0.119	ug/L #	69

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



#5

Vinyl chloride

Concen: 0.039 ug/L

RT: 1.60 min Scan# 80

Delta R.T. -0.01 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampled :

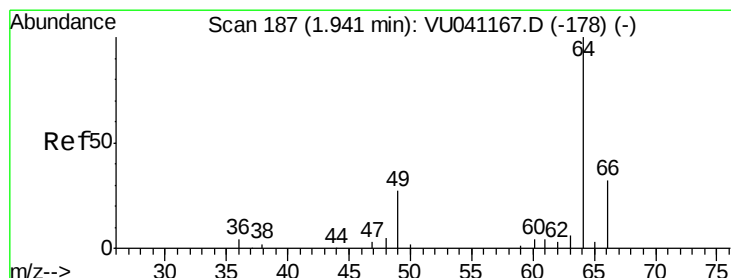
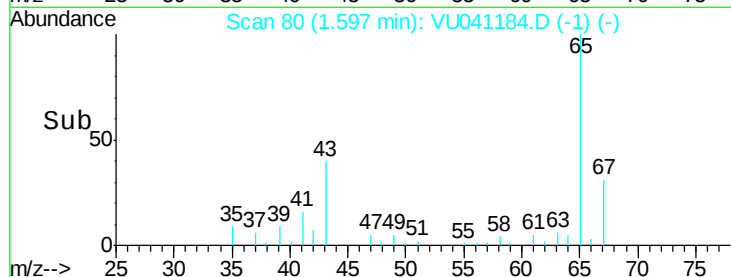
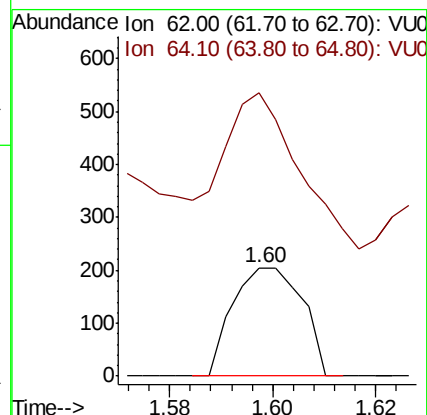
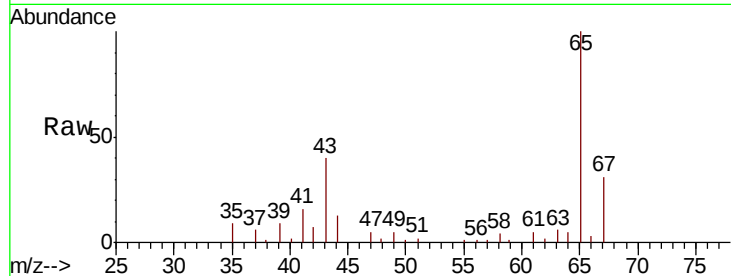
GB0W2

Tot Ion: 62 Resp: 191

Ion Ratio Lower Upper

62 100

64 261.0 22.7 42.3#



#8

Chloroethane

Concen: 0.107 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.01 min

Lab File: VU041184.D

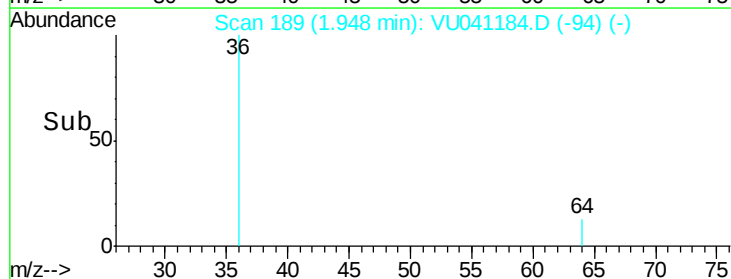
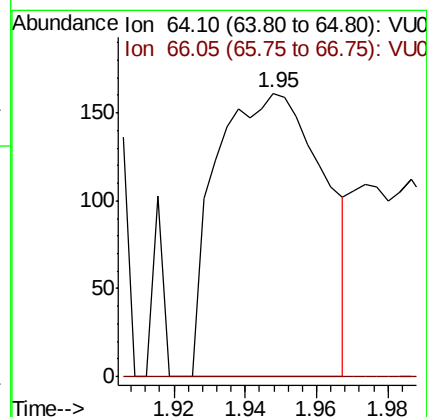
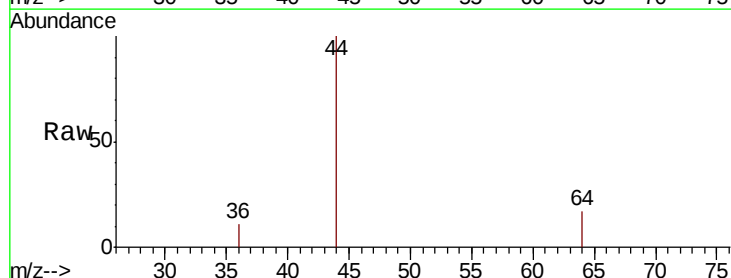
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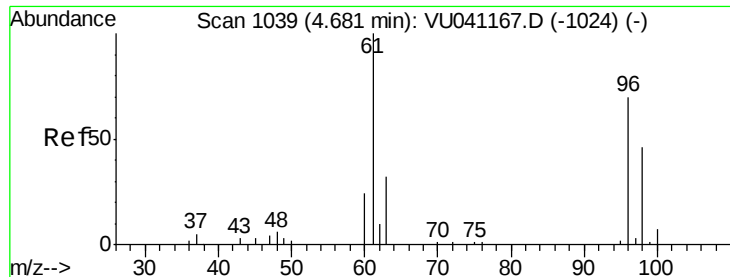
Tgt Ion: 64 Resp: 337

Ion Ratio Lower Upper

64 100

66 0.0 22.3 41.5#





#22

cis-1,2-Dichloroethene

Concen: 0.323 ug/L

RT: 4.70 min Scan# 1044

Delta R.T. 0.02 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

GB0W2

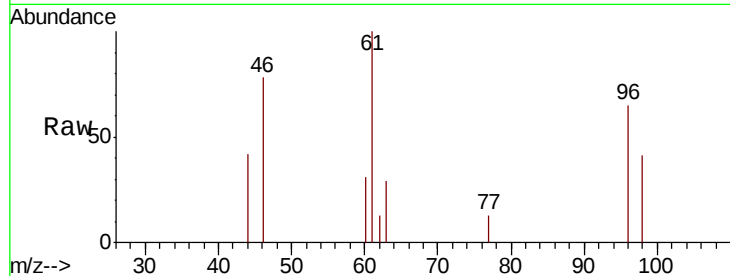
Tot Ion: 96 Resp: 1261

Ion Ratio Lower Upper

96 100

61 154.0 97.2 180.4

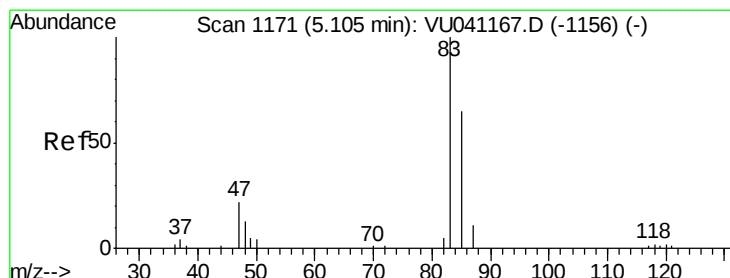
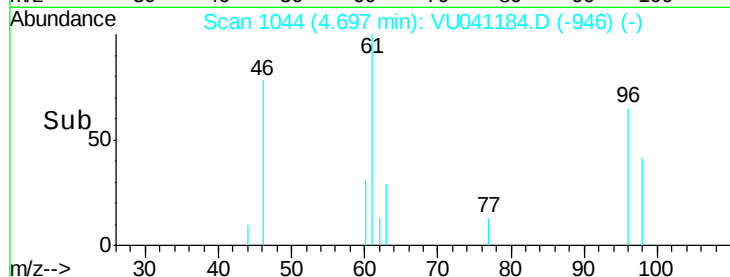
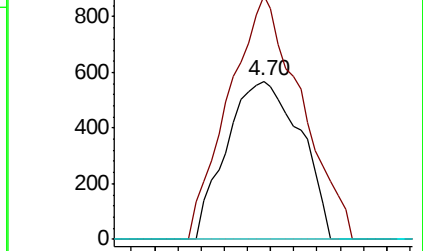
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041184.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU041184.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU041184.D (-946) (-)



#25

Chloroform

Concen: 0.071 ug/L

RT: 5.12 min Scan# 1176

Delta R.T. 0.02 min

Lab File: VU041184.D

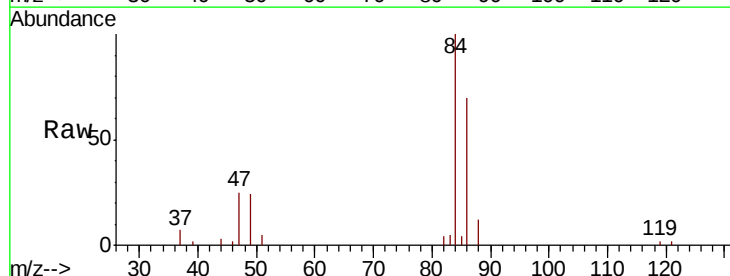
Acq: 10 Nov 2020 18:01

Tgt Ion: 83 Resp: 541

Ion Ratio Lower Upper

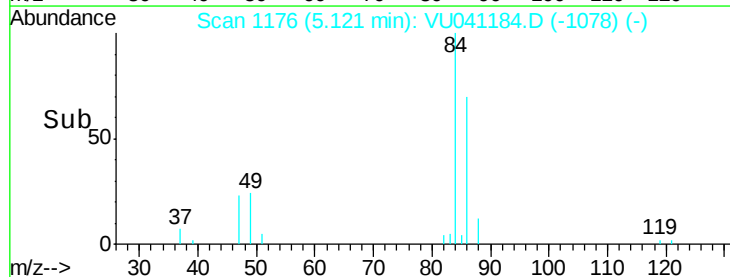
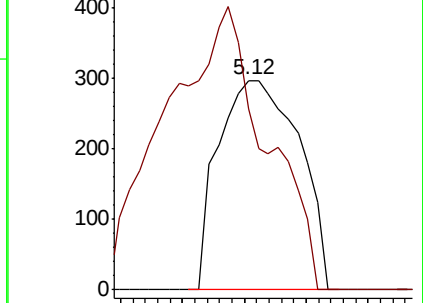
83 100

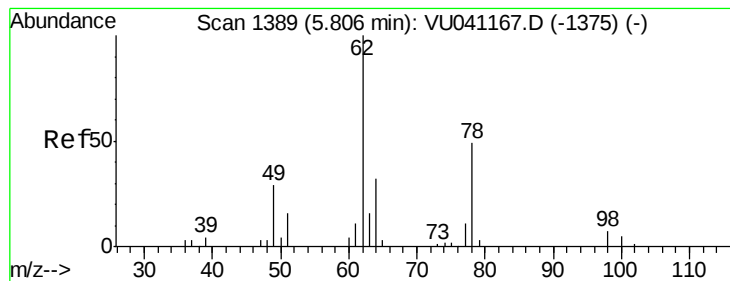
85 86.5 46.1 85.7#



Abundance Ion 83.05 (82.75 to 83.75): VU041184.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU041184.D (-1078) (-)





#27

1,2-Dichloroethane

Concen: 0.057 ug/L

RT: 5.75 min Scan# 1371

Delta R.T. -0.06 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampled :

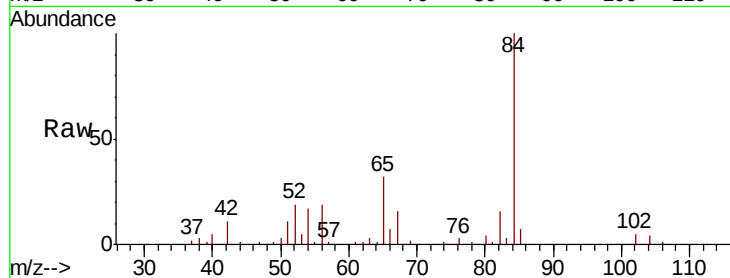
GB0W2

Tot Ion: 62 Resp: 325

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

5.75

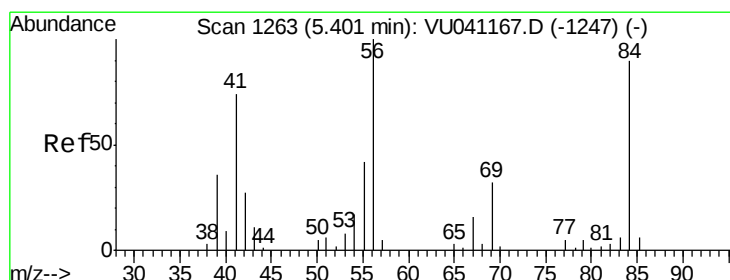
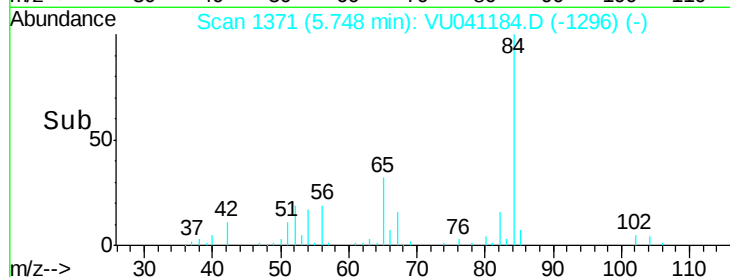
300

200

100

0

Time--> 5.72 5.74 5.76 5.78



#30

Cyclohexane

Concen: 0.223 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

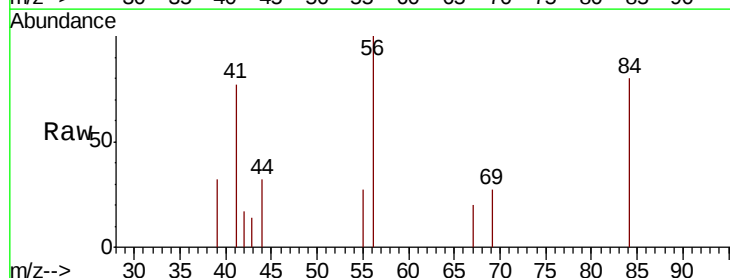
Tgt Ion: 56 Resp: 1440

Ion Ratio Lower Upper

56 100

69 21.3 22.8 34.2#

84 74.4 63.6 95.4



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

1000

800

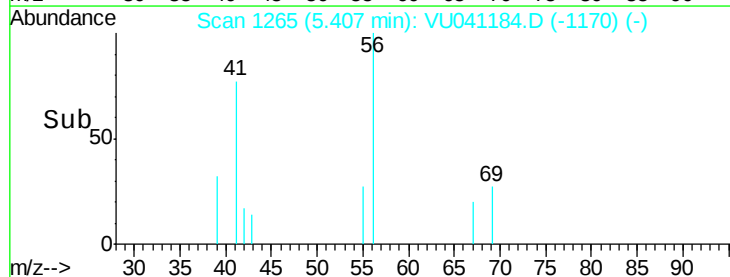
600

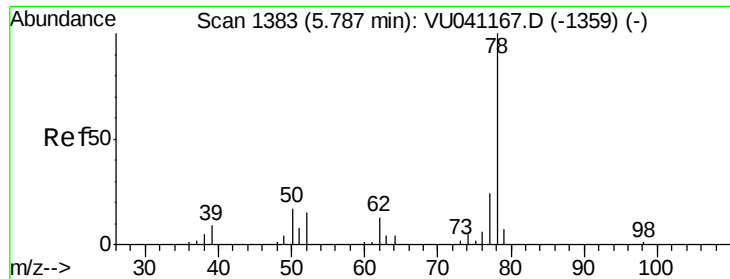
400

200

0

Time--> 5.35 5.40 5.45





#33

Benzene

Concen: 0.445 ug/L

RT: 5.80 min Scan# 1388

Delta R.T. 0.02 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

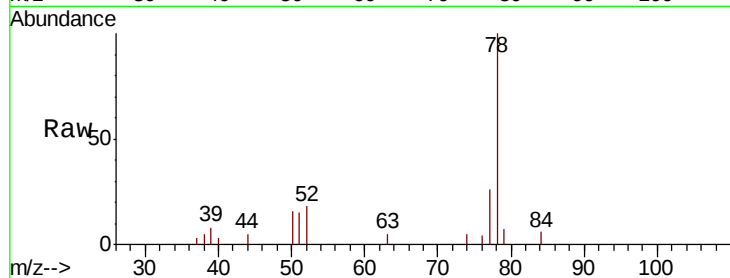
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MSVOA_U

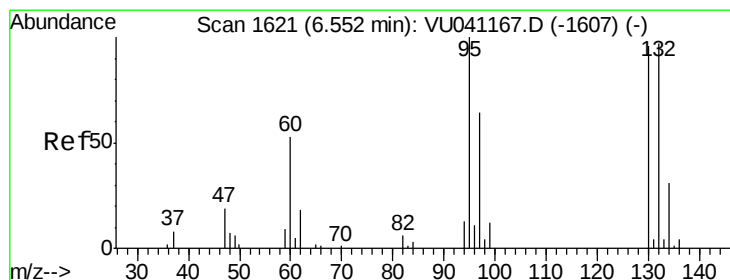
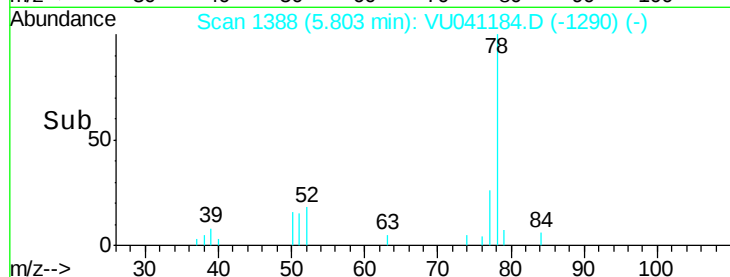
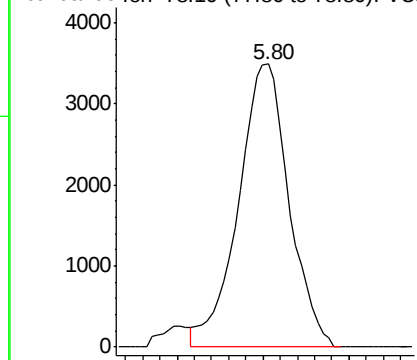
ClientSampled :

GB0W2

Tgt Ion: 78 Resp: 7110



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 2.429 ug/L

RT: 6.56 min Scan# 1624

Delta R.T. 0.01 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

Tgt Ion: 95 Resp: 9879

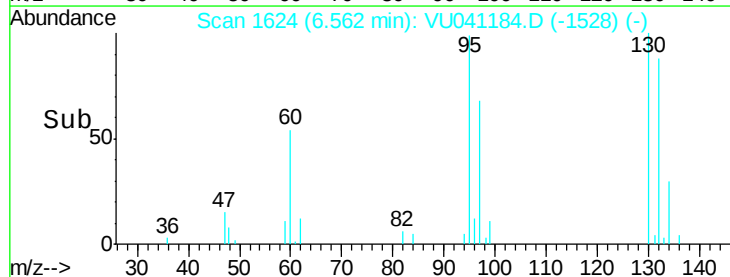
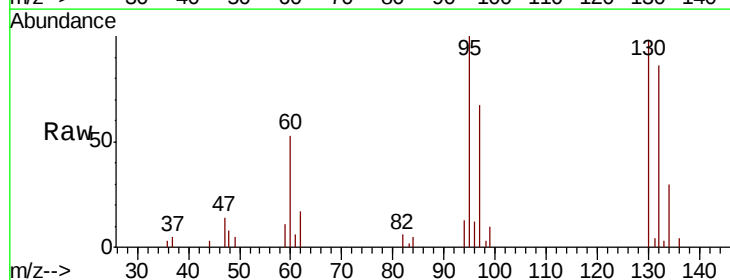
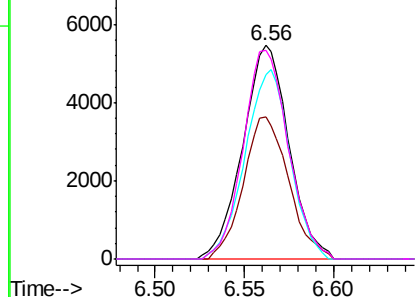
Ion	Ratio	Lower	Upper
95	100		
97	66.7	45.6	84.6
132	86.3	64.8	120.4
130	97.7	64.8	120.4

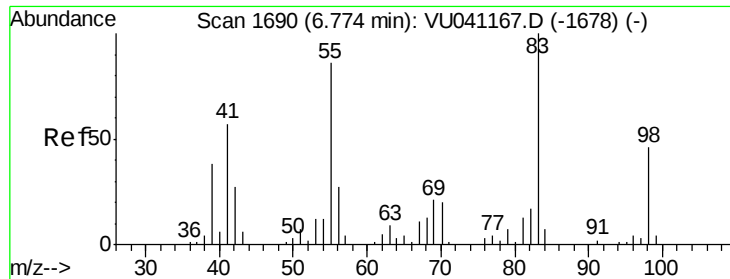
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

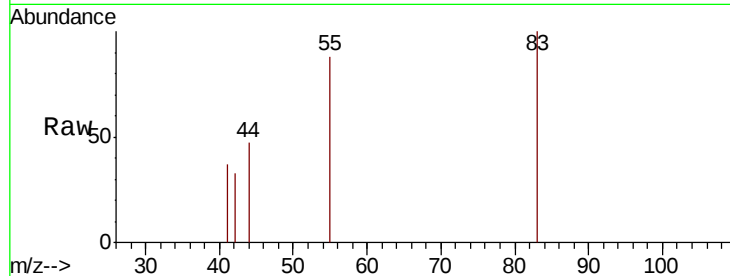




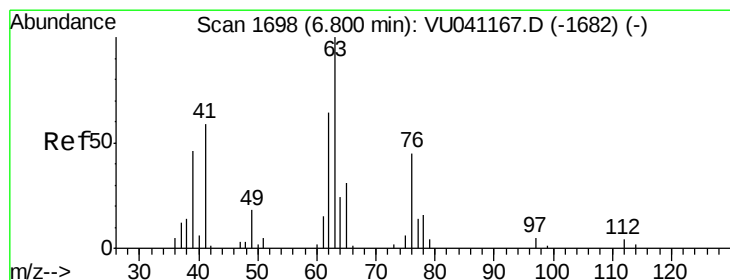
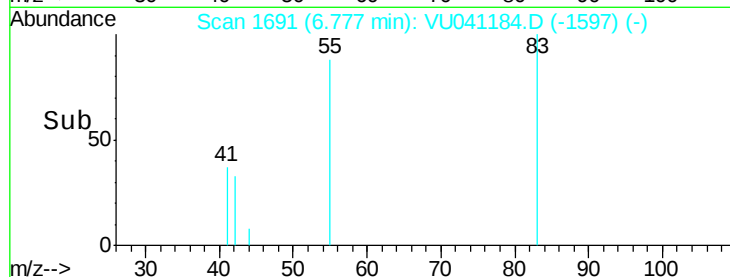
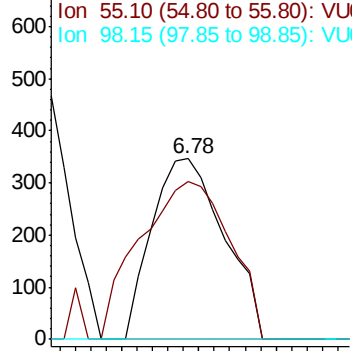
#35
Methylcyclohexane
Concen: 0.074 ug/L
RT: 6.78 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VU041184.D
Acq: 10 Nov 2020 18:01

Instrument :
MSVOA_U
ClientSampleId :
GB0W2

Tot Ion: 83 Resp: 451
Ion Ratio Lower Upper
83 100
55 109.5 72.0 108.0#
98 0.0 36.6 55.0#

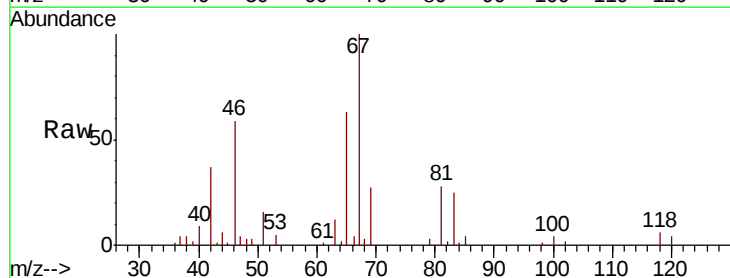


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

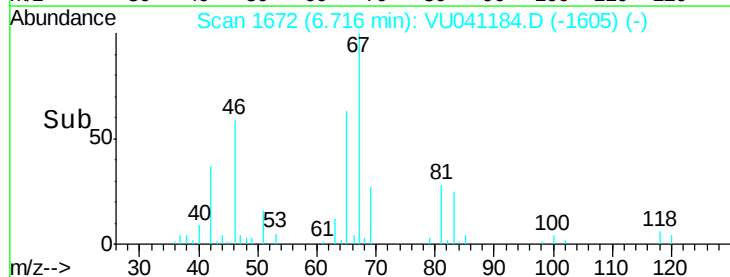
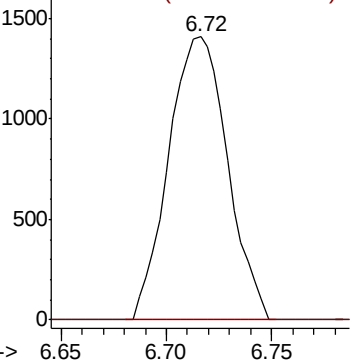


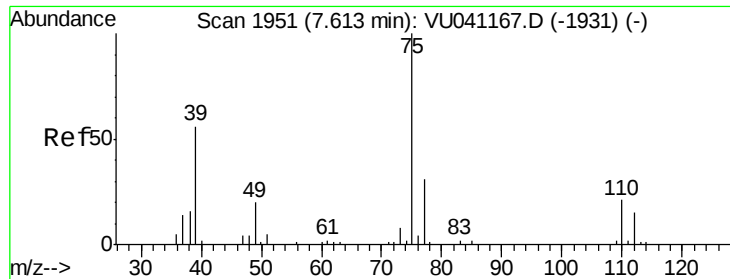
#37
1,2-Dichloropropane
Concen: 0.632 ug/L
RT: 6.72 min Scan# 1672
Delta R.T. -0.08 min
Lab File: VU041184.D
Acq: 10 Nov 2020 18:01

Tgt Ion: 63 Resp: 2733
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



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

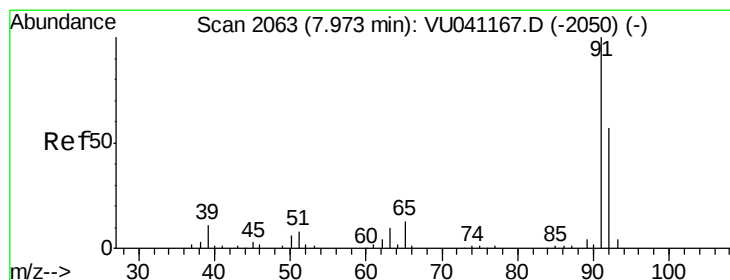
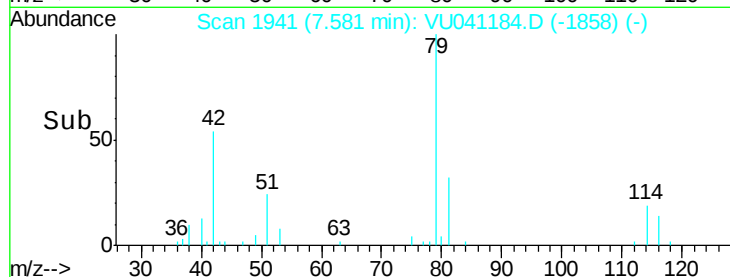
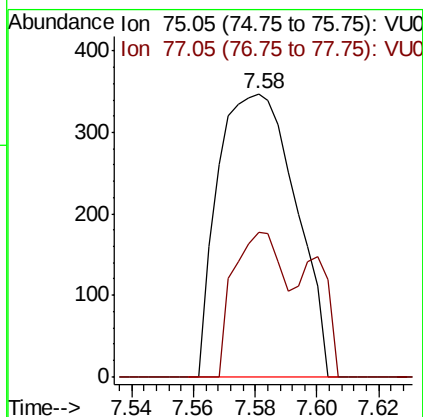
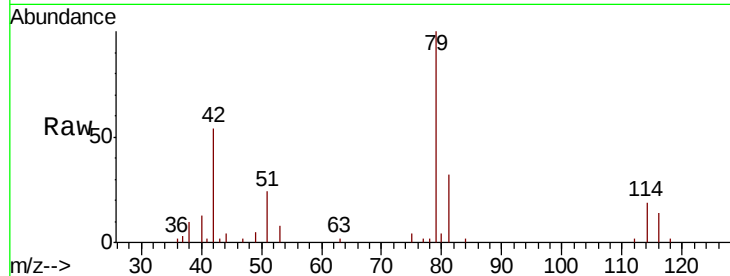




#39
 cis-1,3-Dichloropropene
 Concen: 0.102 ug/L
 RT: 7.58 min Scan# 1941
 Delta R.T. -0.03 min
 Lab File: VU041184.D
 Acq: 10 Nov 2020 18:01

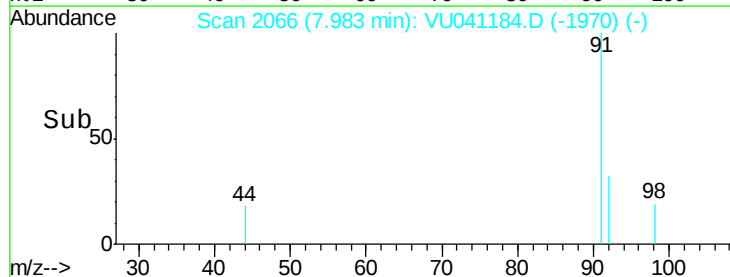
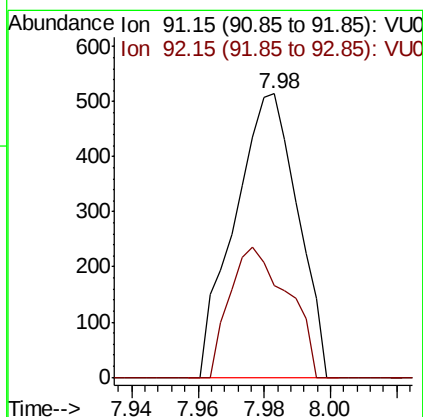
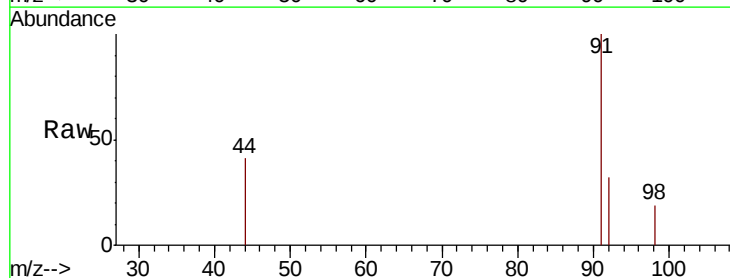
Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W2

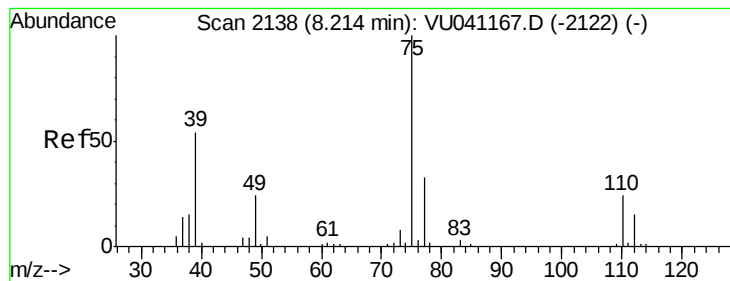
Tot Ion: 75 Resp: 605
 Ion Ratio Lower Upper
 75 100
 77 50.9 22.7 42.3#



#42
 Toluene
 Concen: 0.042 ug/L
 RT: 7.98 min Scan# 2066
 Delta R.T. 0.01 min
 Lab File: VU041184.D
 Acq: 10 Nov 2020 18:01

Tgt Ion: 91 Resp: 680
 Ion Ratio Lower Upper
 91 100
 92 32.3 40.6 75.4#





#44

trans-1,3-Dichloropropene

Concen: 0.084 ug/L

RT: 8.19 min Scan# 2131

Delta R.T. -0.02 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

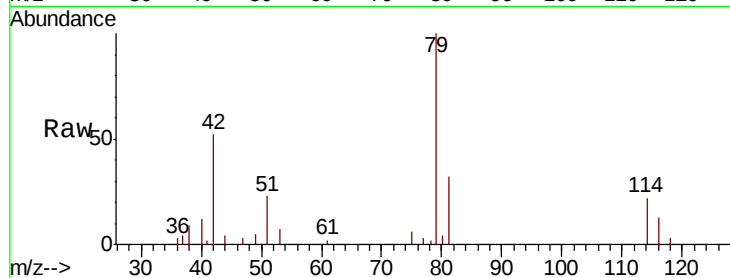
GB0W2

Tot Ion: 75 Resp: 467

Ion Ratio Lower Upper

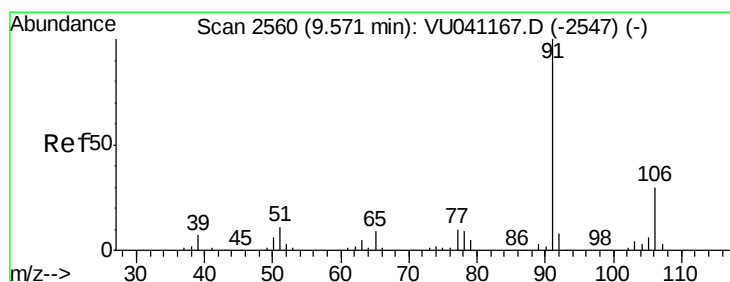
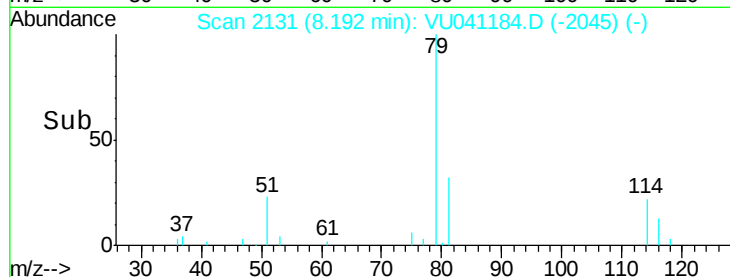
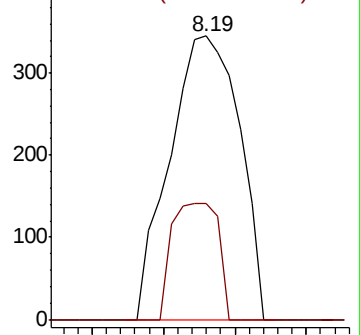
75 100

77 41.2 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#52

Ethylbenzene

Concen: 0.051 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU041184.D

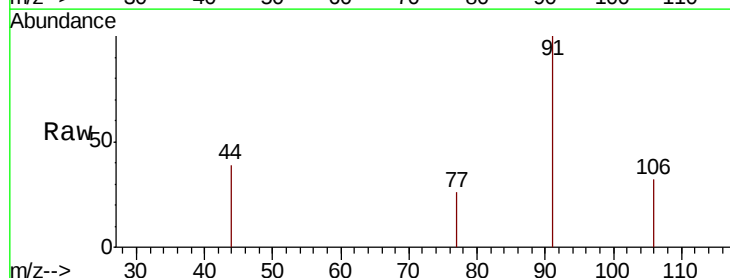
Acq: 10 Nov 2020 18:01

Tgt Ion: 91 Resp: 875

Ion Ratio Lower Upper

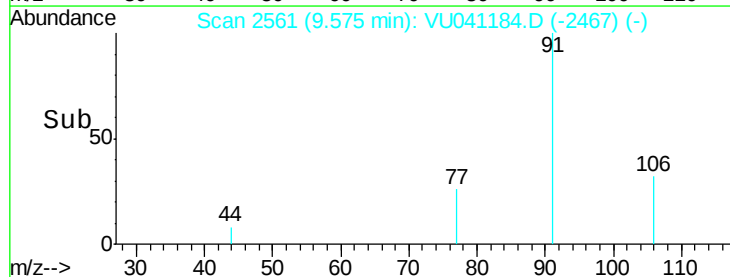
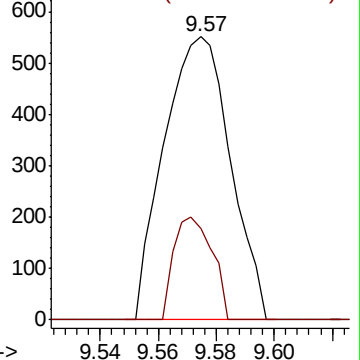
91 100

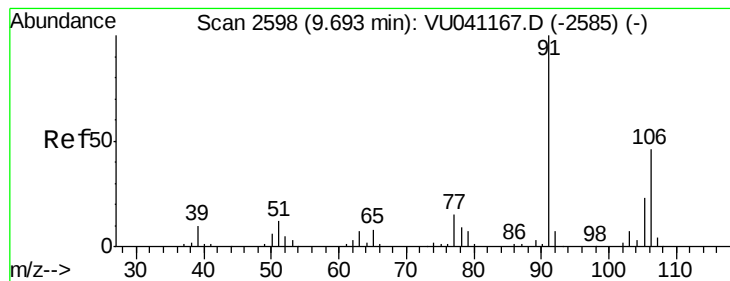
106 32.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.457 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

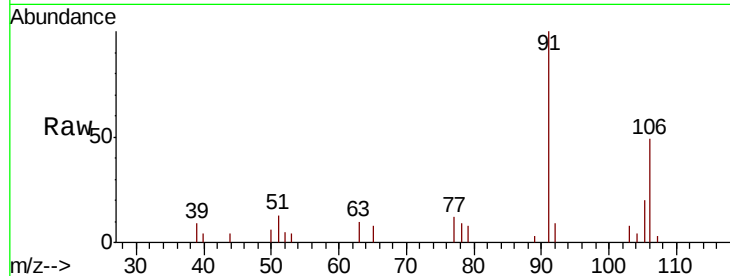
GB0W2

Tot Ion:106 Resp: 2846

Ion Ratio Lower Upper

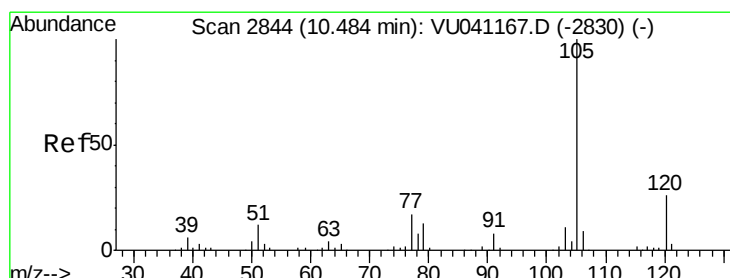
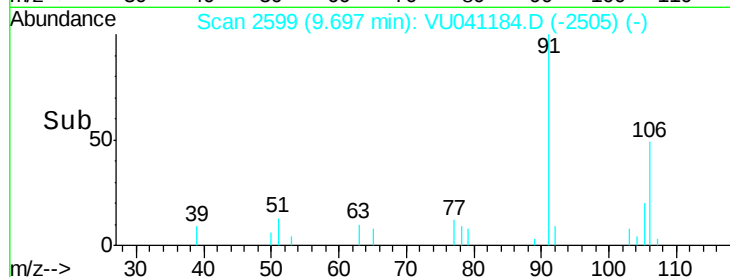
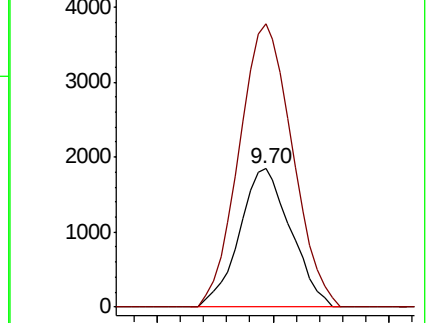
106 100

91 204.1 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#56

Isopropylbenzene

Concen: 0.069 ug/L

RT: 10.49 min Scan# 2845

Delta R.T. 0.00 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

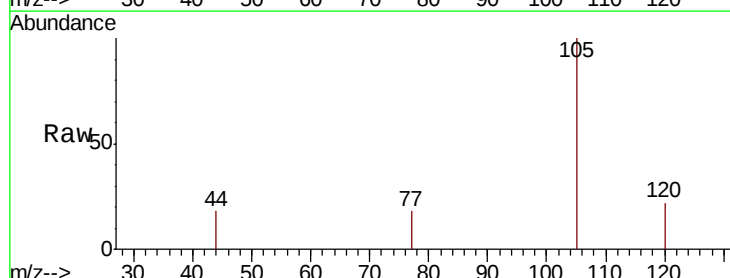
Tgt Ion:105 Resp: 1071

Ion Ratio Lower Upper

105 100

120 19.1 20.7 31.1#

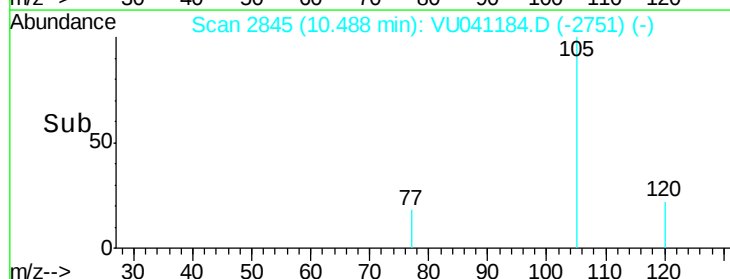
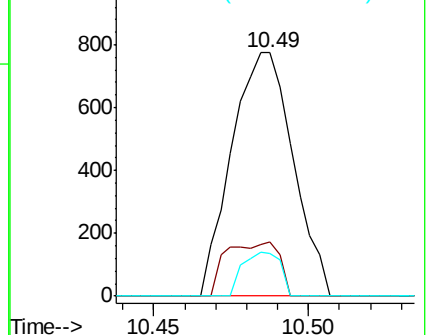
77 11.0 13.8 20.6#

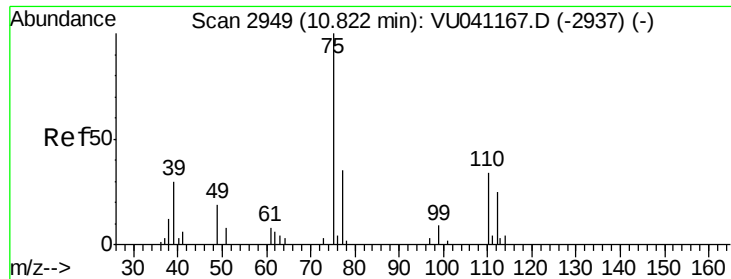


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#59

1,2,3-Trichloropropane

Concen: 1.076 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

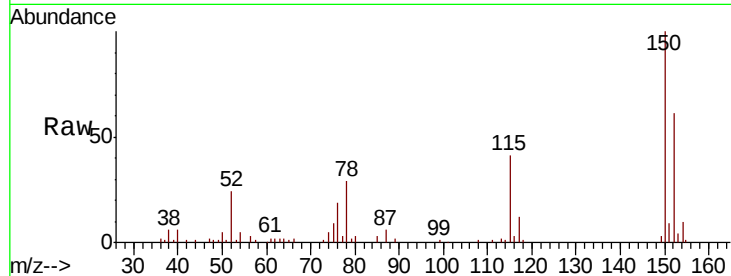
GB0W2

Tot Ion: 75 Resp: 3470

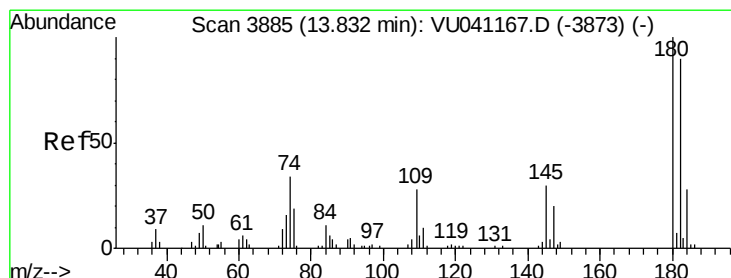
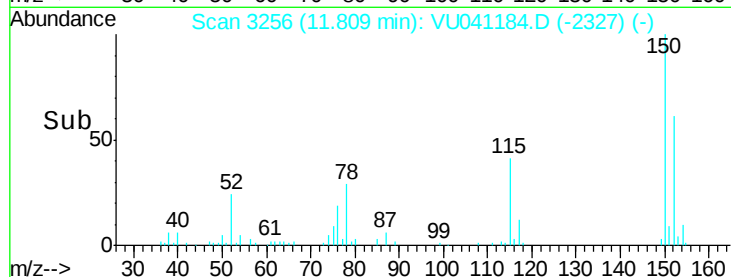
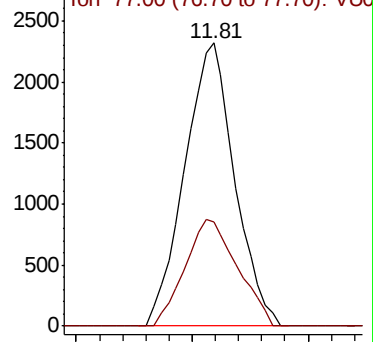
Ion Ratio Lower Upper

75 100

77 39.5 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU041184.D (-2327) (-)



#68

1,2,4-trichlorobenzene

Concen: 0.042 ug/L

RT: 13.83 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VU041184.D

Acq: 10 Nov 2020 18:01

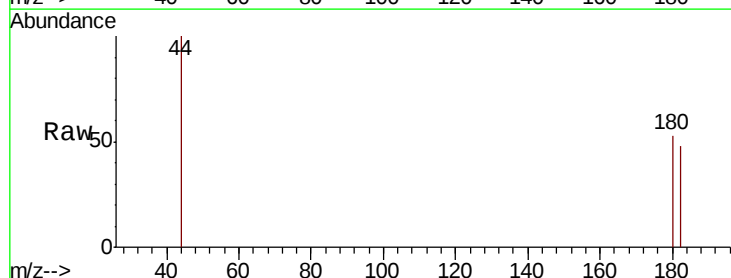
Tgt Ion: 180 Resp: 169

Ion Ratio Lower Upper

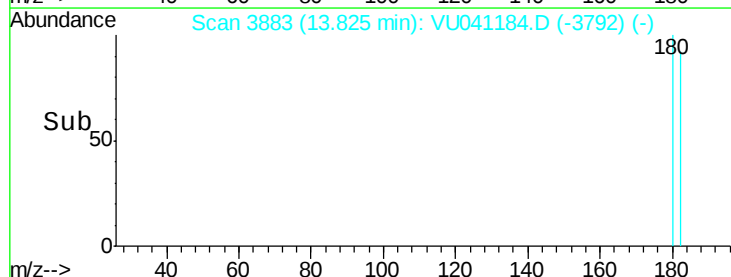
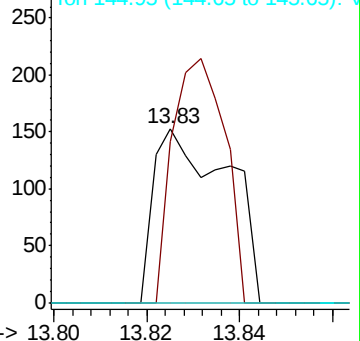
180 100

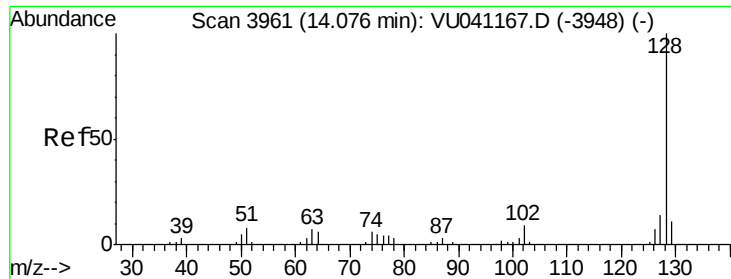
182 99.4 73.5 110.3

145 0.0 26.6 40.0#



Abundance Ion 179.90 (179.60 to 180.60): VU041184.D (-3792) (-)





#69

Naphthalene

Concen: 0.119 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU041184.D

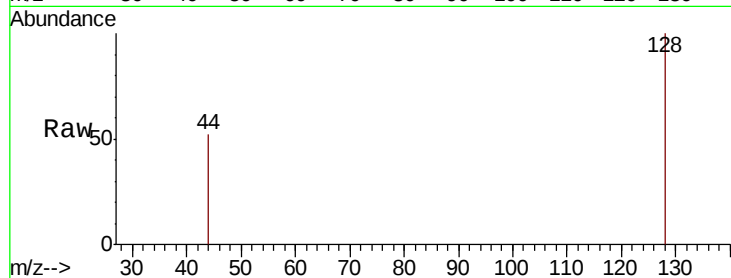
Acq: 10 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

GB0W2



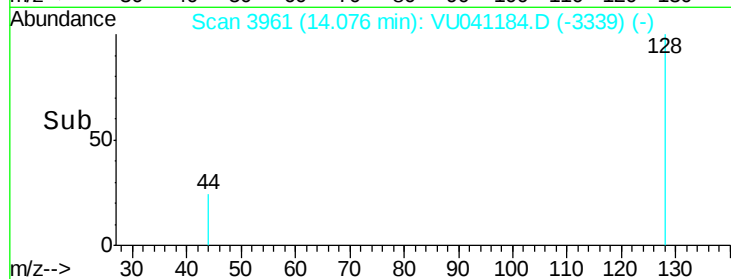
Tot Ion:128 Resp: 866

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

800 Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

600

400

200

0

14.05

14.10

14.08

Time-->