

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100320\
 Data File : VU040484.D
 Acq On : 03 Oct 2020 17:04
 Operator : SY/MD
 Sample : L4240-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3T3

Quant Time: Oct 05 01:04:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 05 00:56:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	130534	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	130092	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	60422	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	31853	4.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.60%
7) Chloroethane-d5	1.93	69	27155	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.00%
11) 1,1-Dichloroethene-d2	2.58	63	53740	3.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.20%
20) 2-Butanone-d5	4.66	46	152436	47.49	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.98%
24) Chloroform-d	5.08	84	72552	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
26) 1,2-Dichloroethane-d4	5.72	65	45707	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.74	84	131473	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
36) 1,2-Dichloropropane-d6	6.70	67	46275	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.91	98	111642	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
43) trans-1,3-Dichloropropene-	8.19	79	18484	4.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.60%
46) 2-Hexanone-d5	8.64	63	102403	44.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.18%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	41731	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	47750	5.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.20%

Target Compounds

				Ovalue
3) Chloromethane	1.53	50	3192	0.249 ug/L # 42
5) Vinyl chloride	1.61	62	478	0.038 ug/L # 1
8) Chloroethane	1.96	64	1331	0.178 ug/L # 53
13) Acetone	2.67	43	8906	3.329 ug/L # 73
14) Carbon disulfide	2.81	76	2164	0.069 ug/L # 75
15) Methyl Acetate	3.06	43	4748	0.737 ug/L # 56
30) Cyclohexane	5.41	56	1985	0.108 ug/L # 65
33) Benzene	5.79	78	1278	0.029 ug/L 100
35) Methylcyclohexane	6.70	83	10824	0.637 ug/L # 14
37) 1,2-Dichloropropane	6.71	63	5548	0.457 ug/L # 88
39) cis-1,3-Dichloropropene	7.57	75	1285	0.079 ug/L # 63
42) Toluene	7.98	91	7989	0.179 ug/L 99
44) trans-1,3-Dichloropropene	8.19	75	998	0.066 ug/L 84
45) 1,1,2-Trichloroethane	8.40	97	504	0.059 ug/L # 85
51) Chlorobenzene	9.45	112	3982	0.138 ug/L 92
52) Ethylbenzene	9.69	91	5742	0.118 ug/L 88
53) m,p-Xylene	9.70	106	2444	0.135 ug/L 99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 05 00:56:13 2020
Response via : Initial Calibration

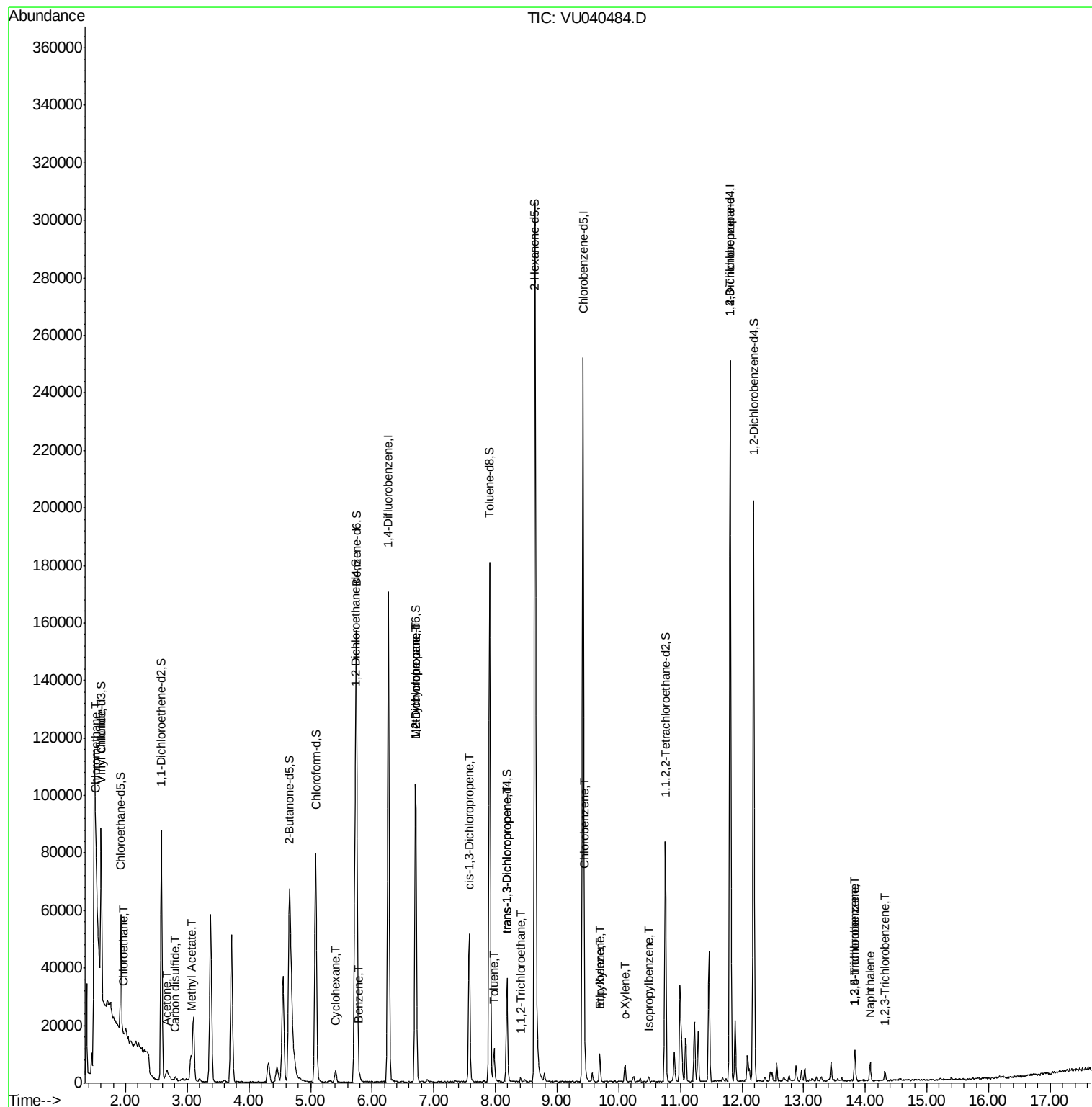
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	1614	0.095	ug/L	70
56) Isopropylbenzene	10.49	105	1463	0.032	ug/L #	84
59) 1,2,3-Trichloropropane	11.81	75	8489	0.964	ug/L	89
67) 1,3,5-Trichlorobenzene	13.83	180	3487	0.244	ug/L #	90
68) 1,2,4-trichlorobenzene	13.83	180	3487	0.304	ug/L	90
69) Naphthalene	14.08	128	5716	0.291	ug/L #	94
70) 1,2,3-Trichlorobenzene	14.32	180	1188	0.113	ug/L	92

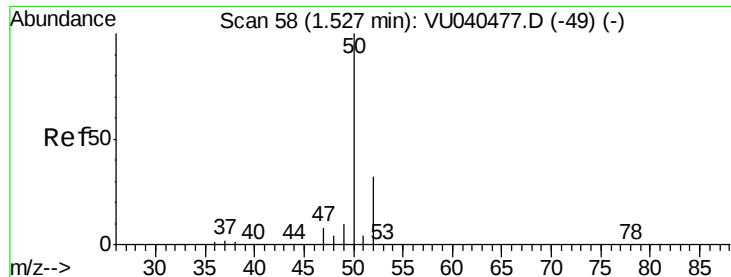
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.249 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

Instrument :

MSVOA_U

ClientSampleId :

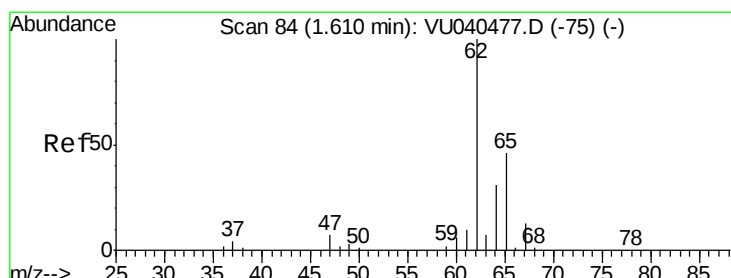
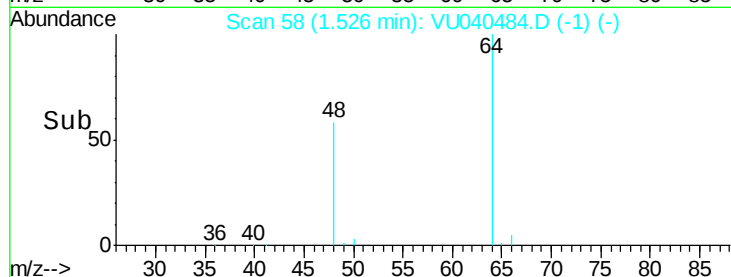
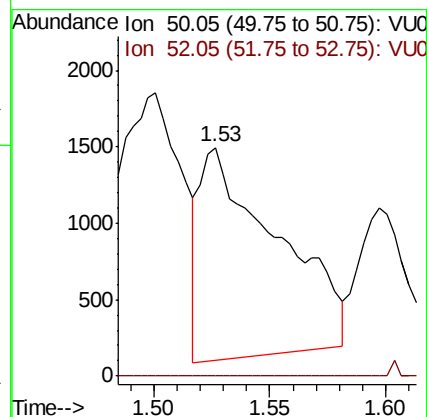
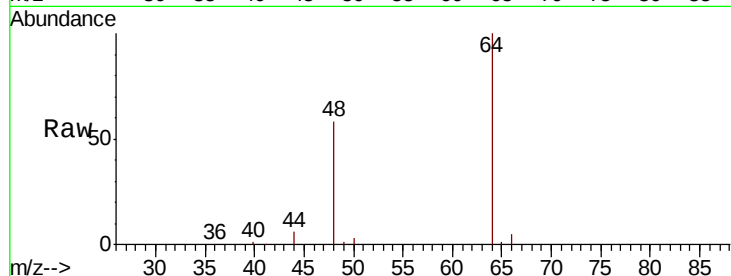
BG3T3

Tot Ion: 50 Resp: 3192

Ion Ratio Lower Upper

50 100

52 0.0 23.0 42.6#



#5

Vinyl chloride

Concen: 0.038 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040484.D

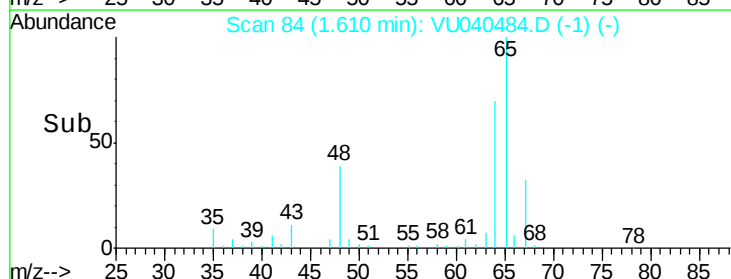
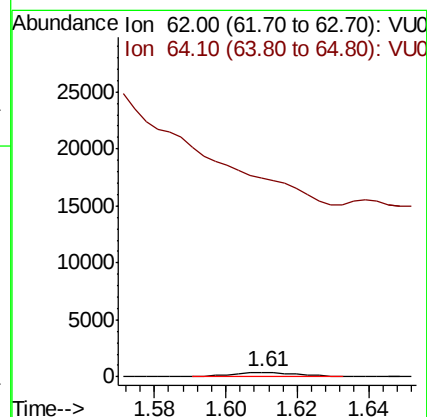
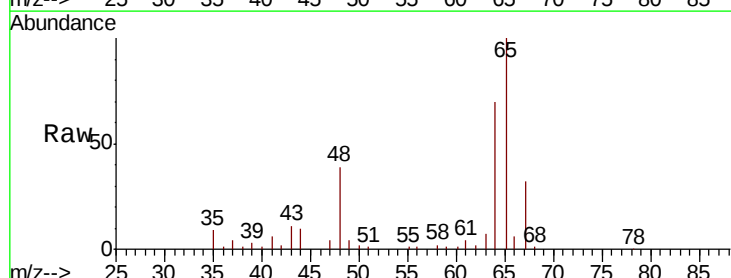
Acq: 03 Oct 2020 17:04

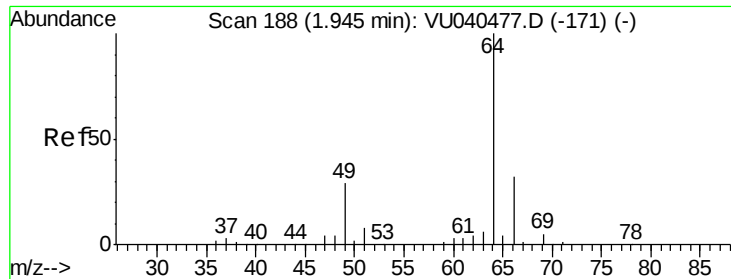
Tgt Ion: 62 Resp: 478

Ion Ratio Lower Upper

62 100

64 4435.6 23.0 42.8#

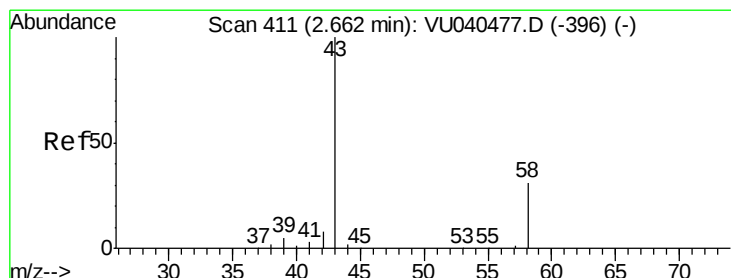
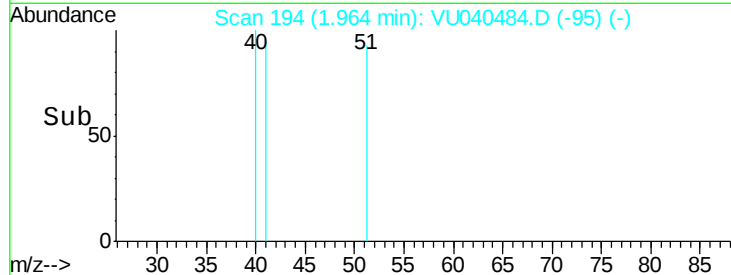
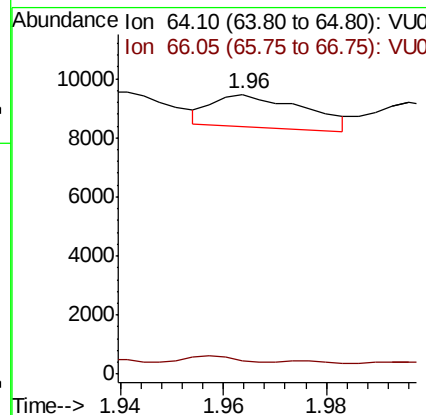
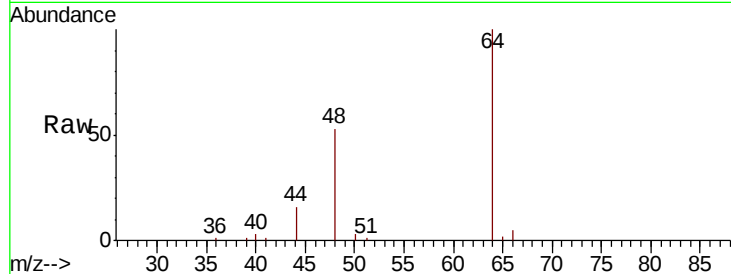




#8
 Chloroethane
 Concen: 0.178 ug/L
 RT: 1.96 min Scan# 194
 Delta R.T. 0.02 min
 Lab File: VU040484.D
 Acq: 03 Oct 2020 17:04

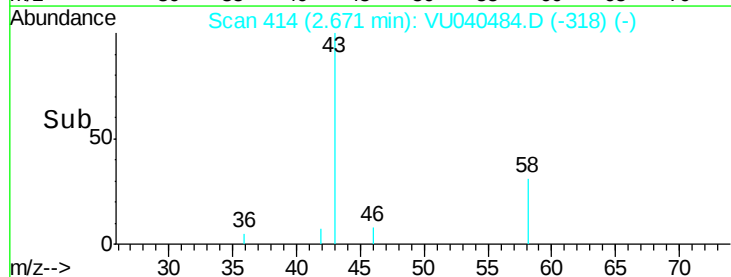
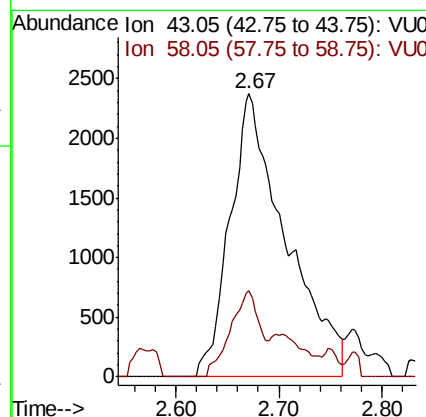
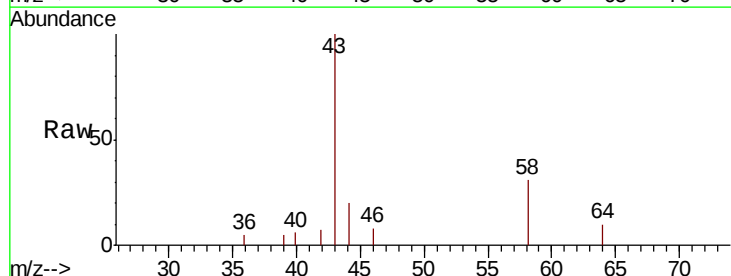
Instrument :
 MSVOA_U
 ClientSampleId :
 BG3T3

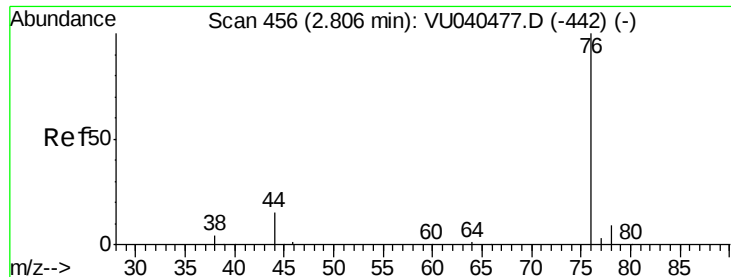
Tot Ion: 64 Resp: 1331
 Ion Ratio Lower Upper
 64 100
 66 4.8 21.3 39.6#



#13
 Acetone
 Concen: 3.329 ug/L
 RT: 2.67 min Scan# 414
 Delta R.T. 0.01 min
 Lab File: VU040484.D
 Acq: 03 Oct 2020 17:04

Tgt Ion: 43 Resp: 8906
 Ion Ratio Lower Upper
 43 100
 58 15.9 0.0 61.8





#14

Carbon disulfide

Concen: 0.069 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

Instrument :

MSVOA_U

ClientSampled :

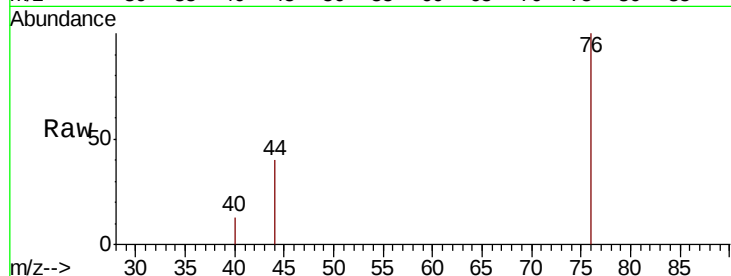
BG3T3

Tot Ion: 76 Resp: 2164

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 76.05 (75.75 to 76.75): VU040477.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU040477.D (-442) (-)

2.81

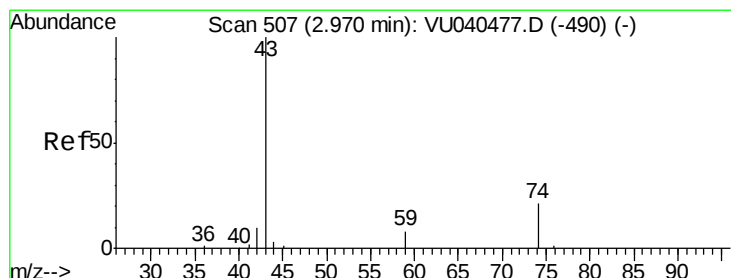
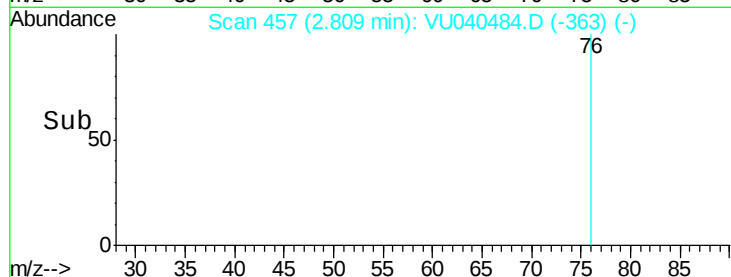
1500

1000

500

0

Time--> 2.75 2.80 2.85



#15

Methyl Acetate

Concen: 0.737 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.09 min

Lab File: VU040484.D

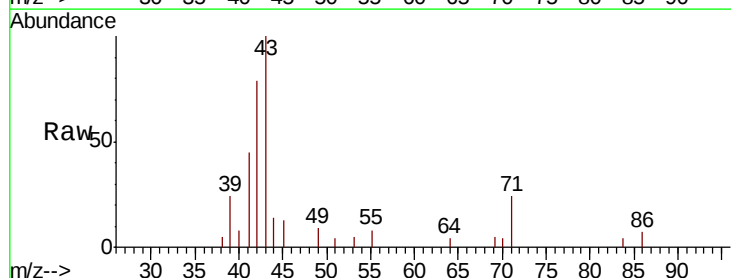
Acq: 03 Oct 2020 17:04

Tgt Ion: 43 Resp: 4748

Ion Ratio Lower Upper

43 100

74 0.0 16.3 24.5#



Abundance Ion 43.05 (42.75 to 43.75): VU040477.D (-490) (-)

Ion 74.05 (73.75 to 74.75): VU040477.D (-490) (-)

8000

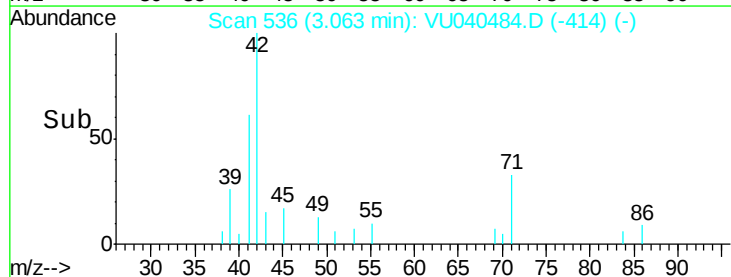
6000

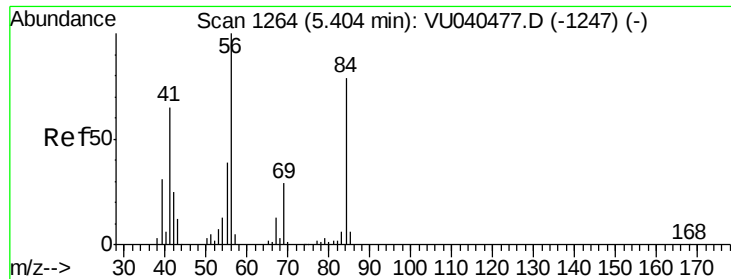
4000

2000

0

Time--> 3.00 3.02 3.04 3.06 3.08

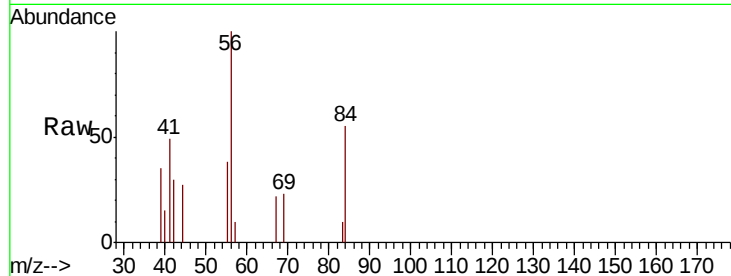




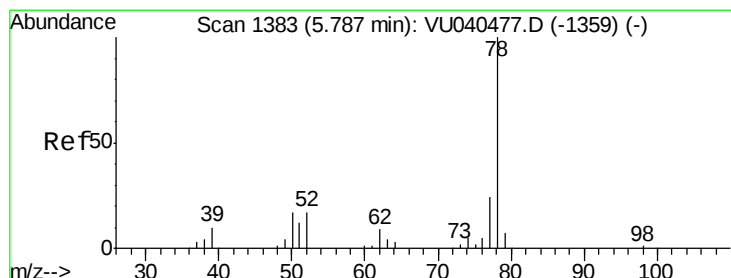
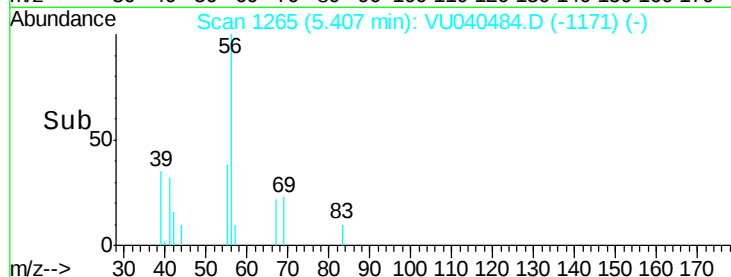
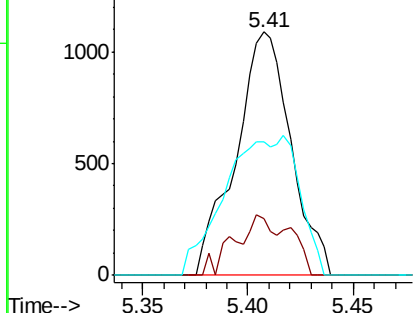
#30
Cyclohexane
Concen: 0.108 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Instrument :
MSVOA_U
ClientSampleId :
BG3T3

Tot Ion	Ratio	Lower	Upper
56	100		
69	10.6	23.3	34.9#
84	49.3	64.2	96.4#

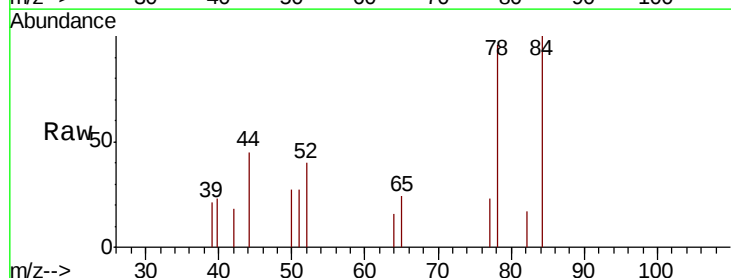


Abundance Ion 56.10 (55.80 to 56.80): VU040477.D (-1247) (-)
Ion 69.15 (68.85 to 69.85): VU040477.D (-1247) (-)
Ion 84.15 (83.85 to 84.85): VU040477.D (-1247) (-)

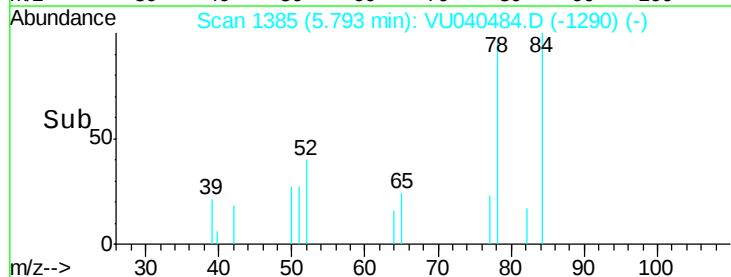
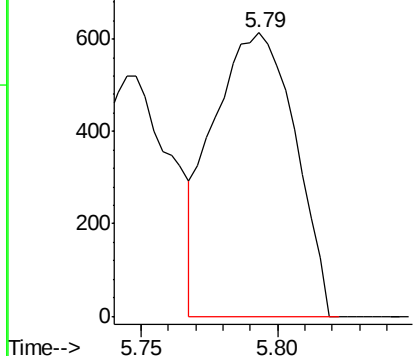


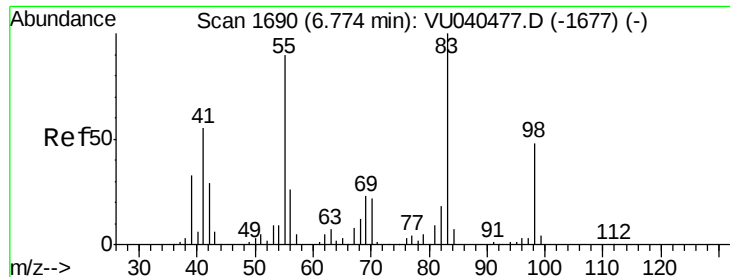
#33
Benzene
Concen: 0.029 ug/L
RT: 5.79 min Scan# 1385
Delta R.T. 0.01 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Tgt Ion: 78 Resp: 1278



Abundance Ion 78.10 (77.80 to 78.80): VU040477.D (-1359) (-)

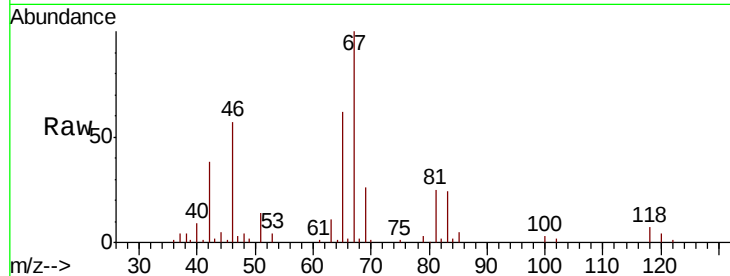




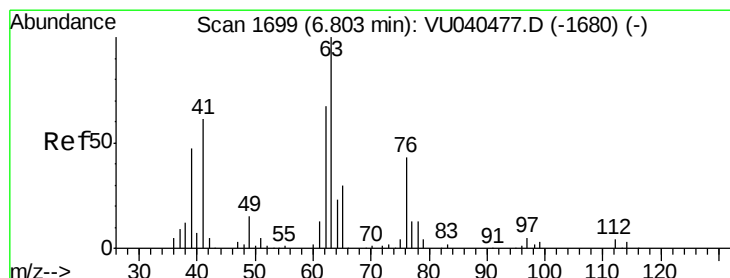
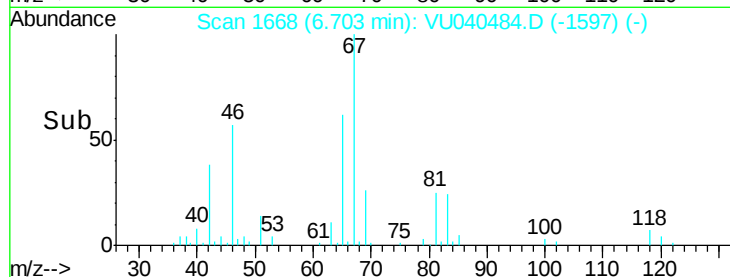
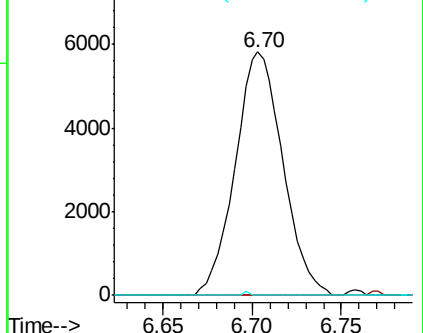
#35
Methvlcvclohexane
Concen: 0.637 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Instrument :
MSVOA_U
ClientSampleId :
BG3T3

Tot Ion: 83 Resp: 10824
Ion Ratio Lower Upper
83 100
55 0.4 71.4 107.2#
98 0.2 38.5 57.7#

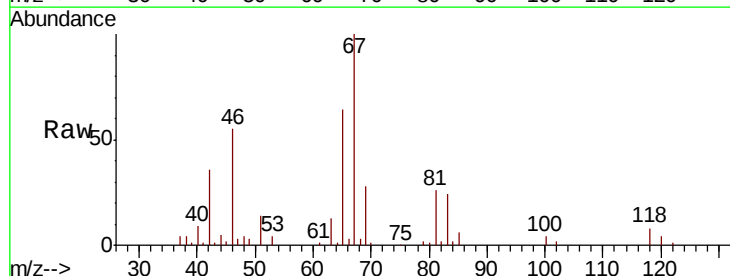


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

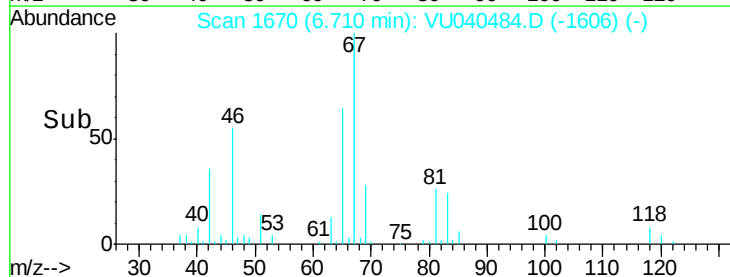
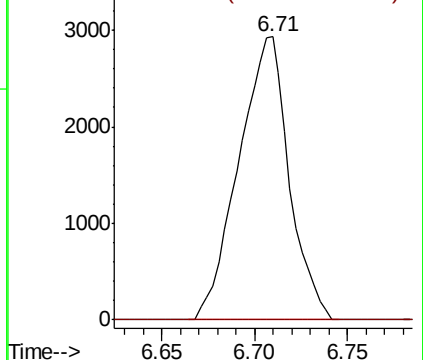


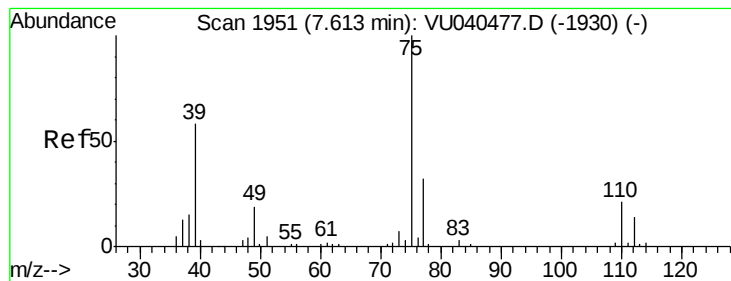
#37
1,2-Dichloropropane
Concen: 0.457 ug/L
RT: 6.71 min Scan# 1670
Delta R.T. -0.09 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Tgt Ion: 63 Resp: 5548
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#



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



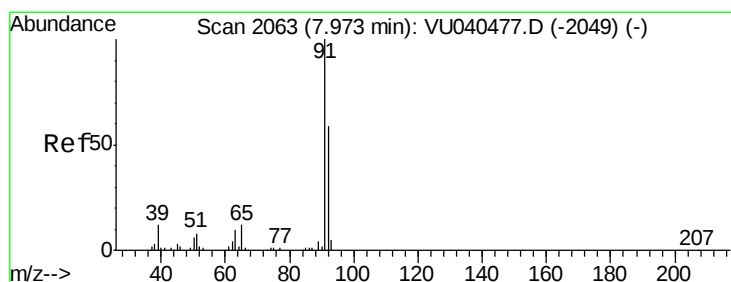
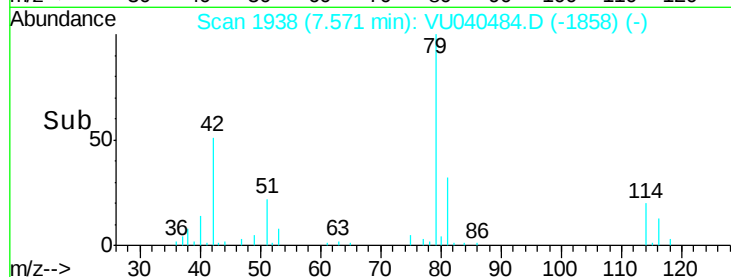
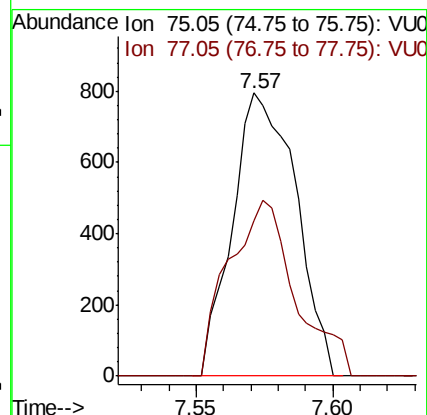
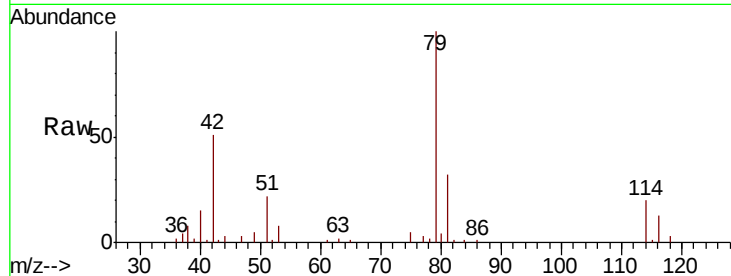


#39

cis-1,3-Dichloropropene
Concen: 0.079 ug/L
RT: 7.57 min Scan# 1938
Delta R.T. -0.04 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Instrument :
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ClientSampleId :
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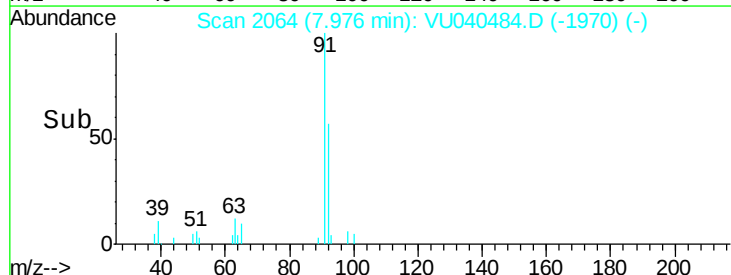
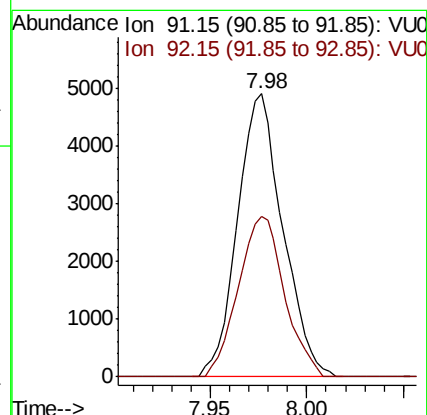
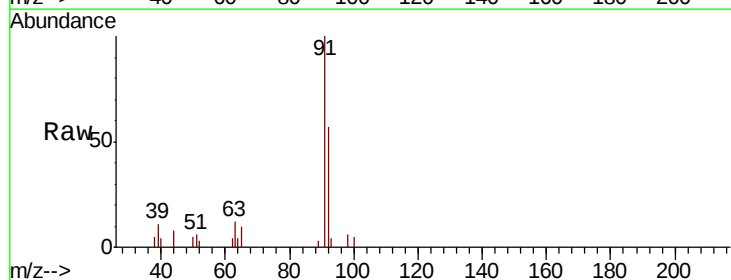
Tot Ion: 75 Resp: 1285
Ion Ratio Lower Upper
75 100
77 54.7 23.5 43.7#

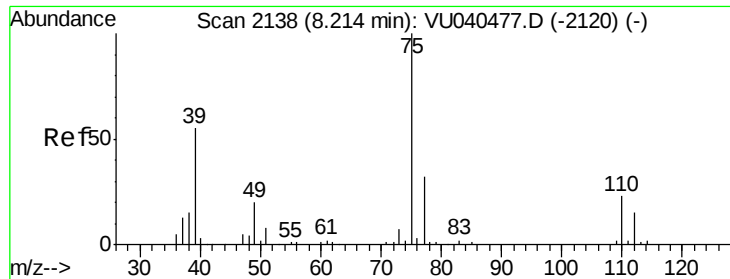


#42

Toluene
Concen: 0.179 ug/L
RT: 7.98 min Scan# 2064
Delta R.T. 0.00 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Tgt Ion: 91 Resp: 7989
Ion Ratio Lower Upper
91 100
92 56.7 40.0 74.4





#44

trans-1,3-Dichloropropene

Concen: 0.066 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

Instrument :

MSVOA_U

ClientSampleId :

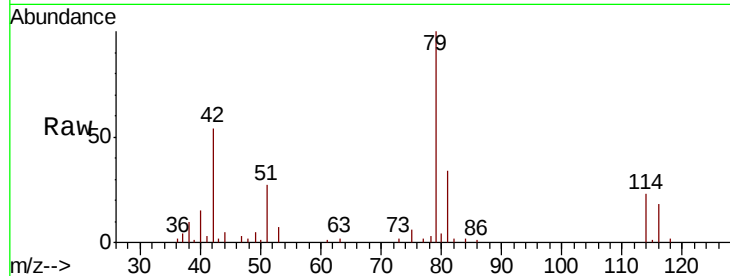
BG3T3

Tot Ion: 75 Resp: 998

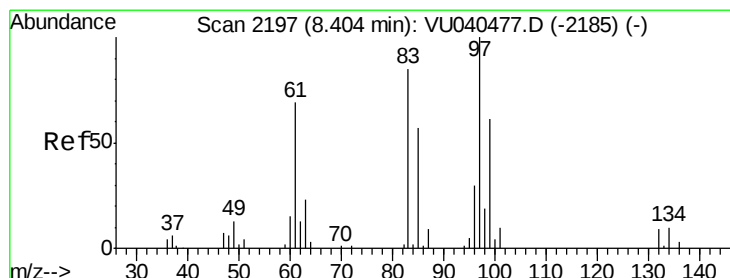
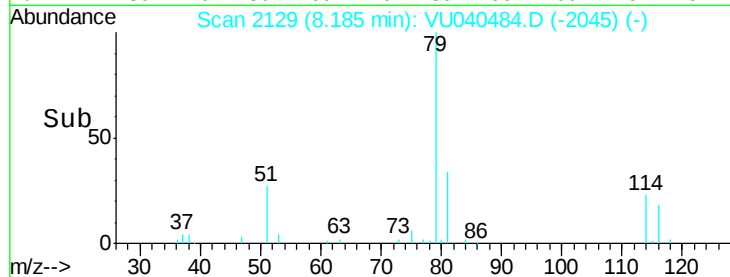
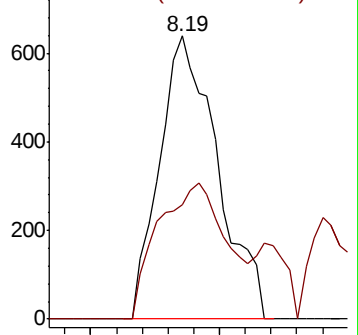
Ion Ratio Lower Upper

75 100

77 40.4 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU040477.D (-2120) (-)



#45

1,1,2-Trichloroethane

Concen: 0.059 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

Tgt Ion: 97 Resp: 504

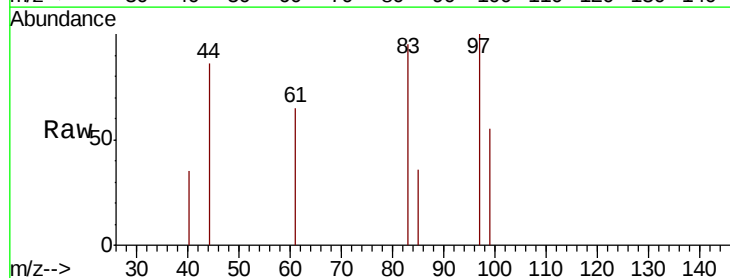
Ion Ratio Lower Upper

97 100

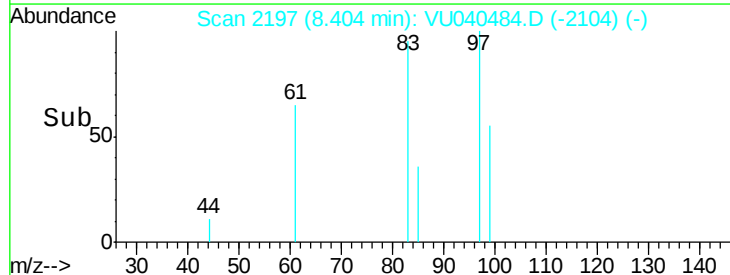
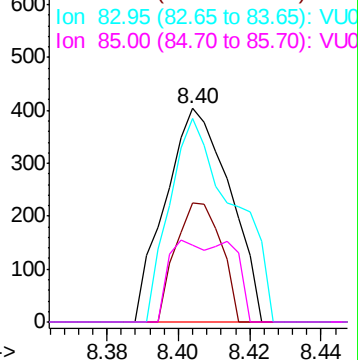
99 55.4 45.8 85.0

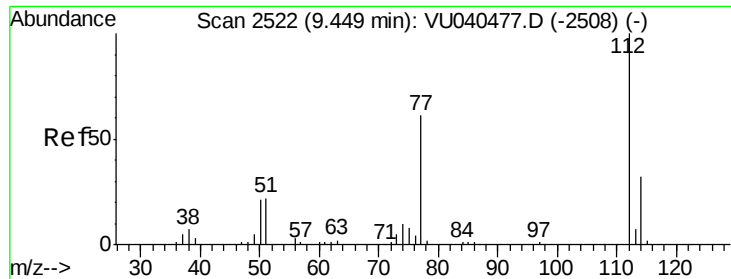
83 95.0 62.9 116.9

85 36.1 41.7 77.5#



Abundance Ion 96.95 (96.65 to 97.65): VU040477.D (-2185) (-)

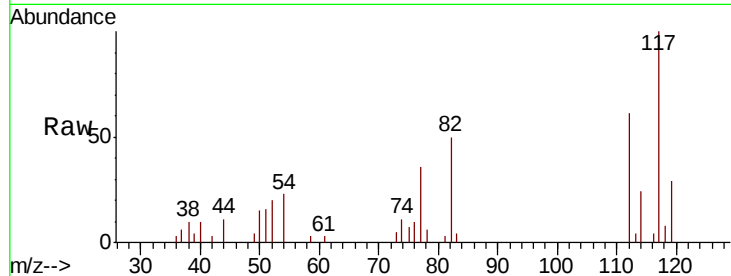




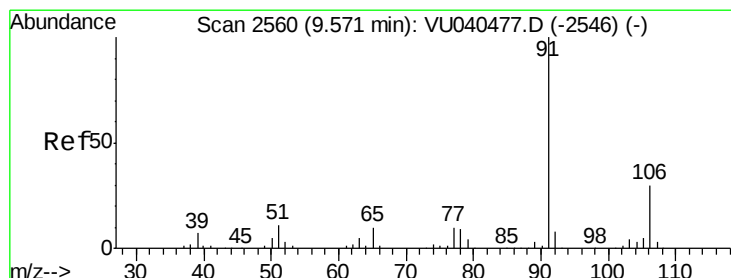
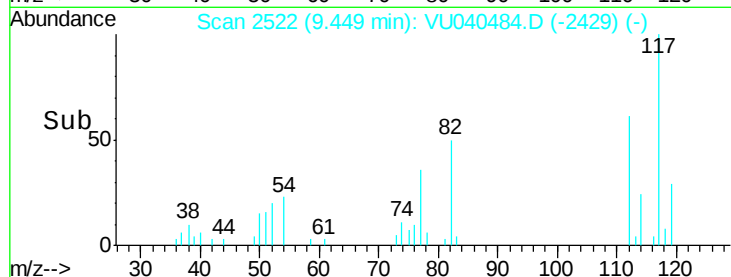
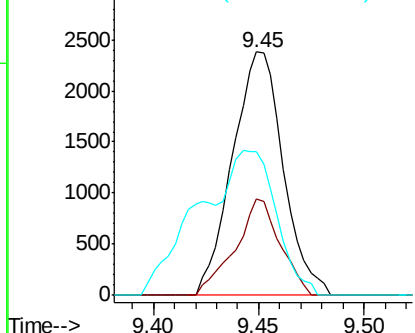
#51
Chlorobenzene
Concen: 0.138 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Instrument :
MSVOA_U
ClientSampleId :
BG3T3

Tot Ion:112 Resp: 3982
Ion Ratio Lower Upper
112 100
114 39.8 22.0 40.8
77 58.9 49.5 74.3

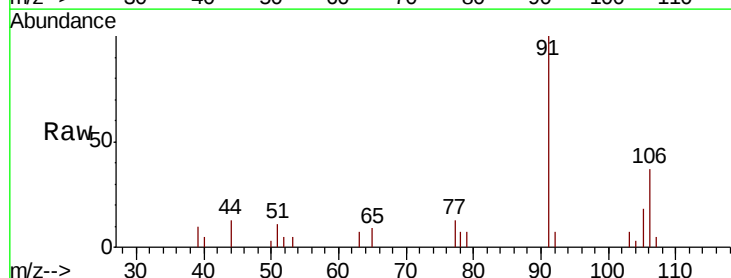


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

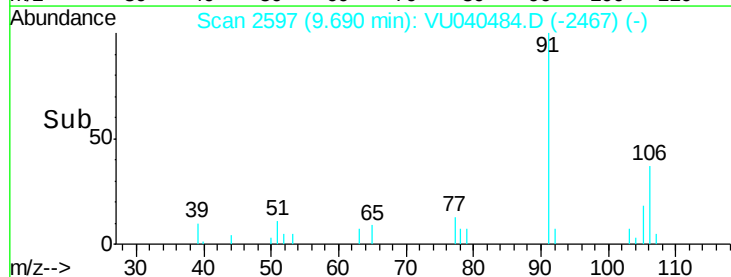
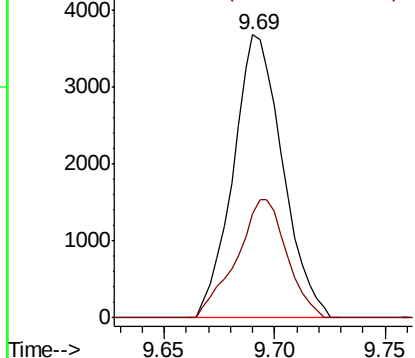


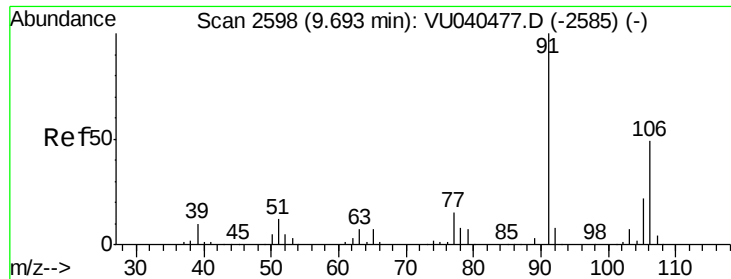
#52
Ethylbenzene
Concen: 0.118 ug/L
RT: 9.69 min Scan# 2597
Delta R.T. 0.12 min
Lab File: VU040484.D
Acq: 03 Oct 2020 17:04

Tgt Ion: 91 Resp: 5742
Ion Ratio Lower Upper
91 100
106 36.6 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.135 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

Instrument :

MSVOA_U

ClientSampleId :

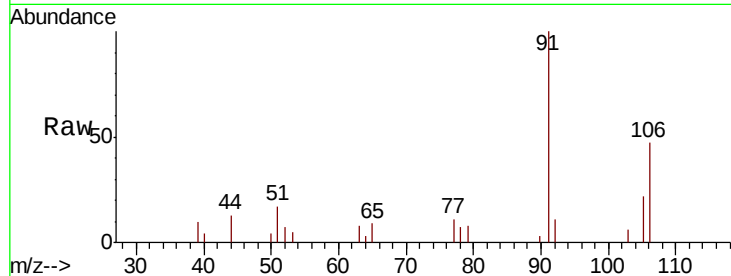
BG3T3

Tot Ion:106 Resp: 2444

Ion Ratio Lower Upper

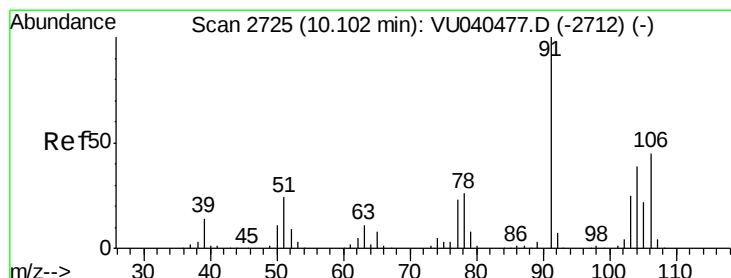
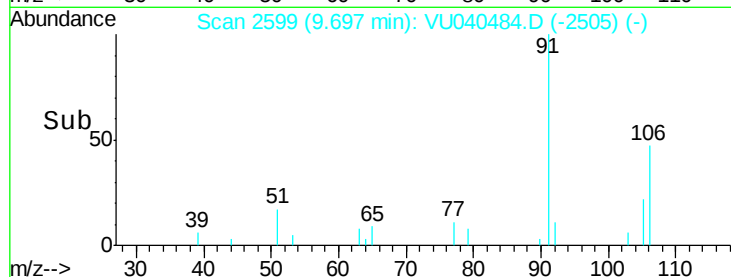
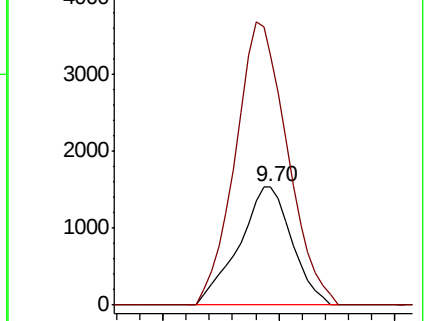
106 100

91 210.7 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.095 ug/L

RT: 10.10 min Scan# 2726

Delta R.T. 0.00 min

Lab File: VU040484.D

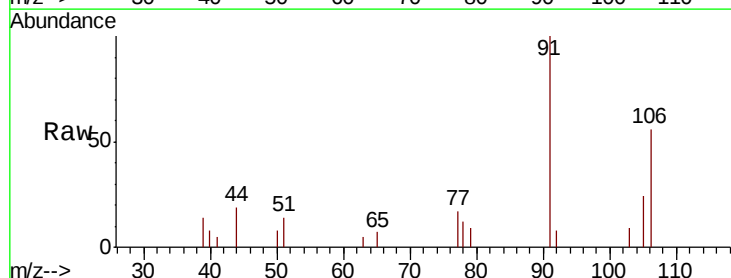
Acq: 03 Oct 2020 17:04

Tgt Ion:106 Resp: 1614

Ion Ratio Lower Upper

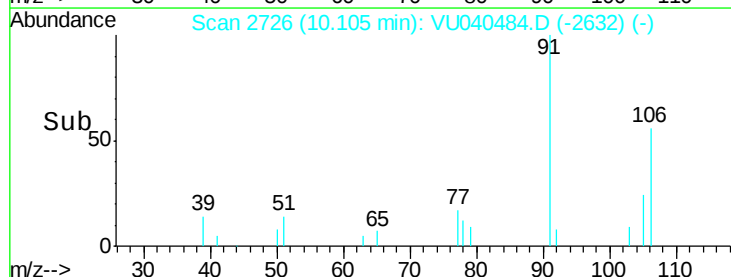
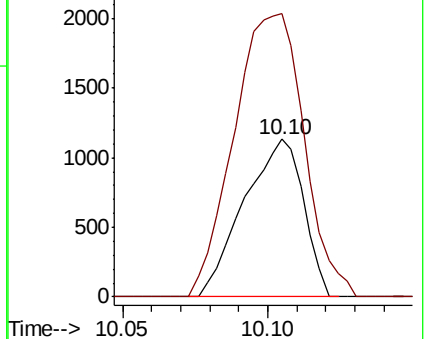
106 100

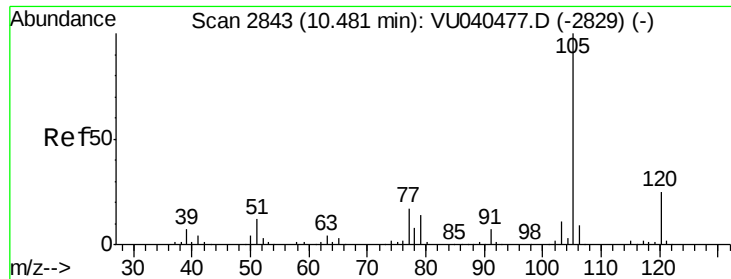
91 179.8 160.9 298.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 0.032 ug/L

RT: 10.49 min Scan# 2845

Delta R.T. 0.01 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

Instrument :

MSVOA_U

ClientSampled :

BG3T3

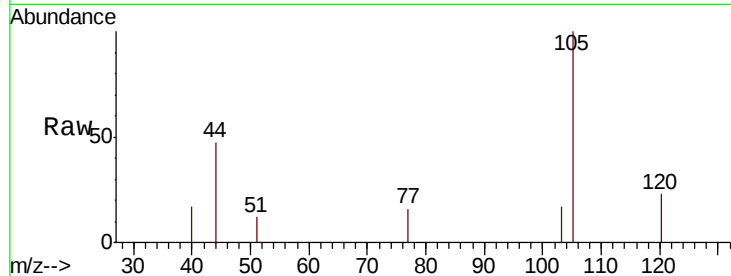
Tot Ion:105 Resp: 1463

Ion Ratio Lower Upper

105 100

120 18.5 20.6 30.8#

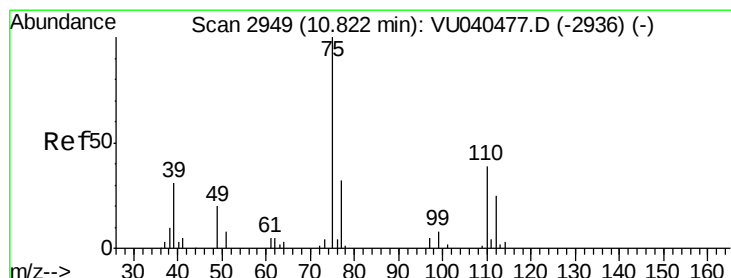
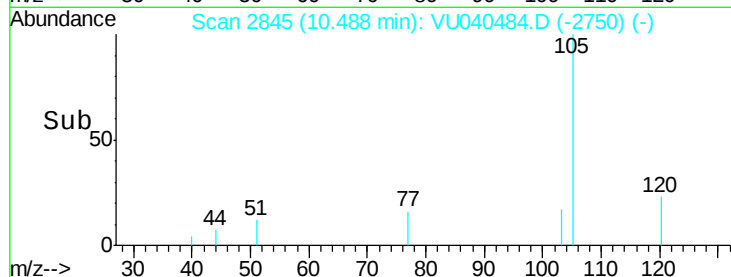
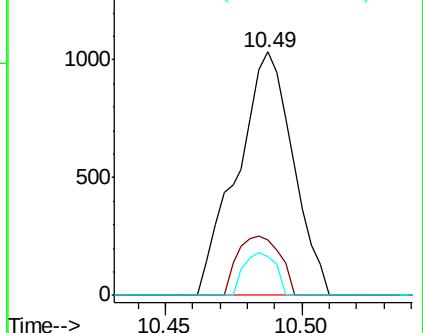
77 9.8 14.3 21.5#



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): V



#59

1,2,3-Trichloropropane

Concen: 0.964 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040484.D

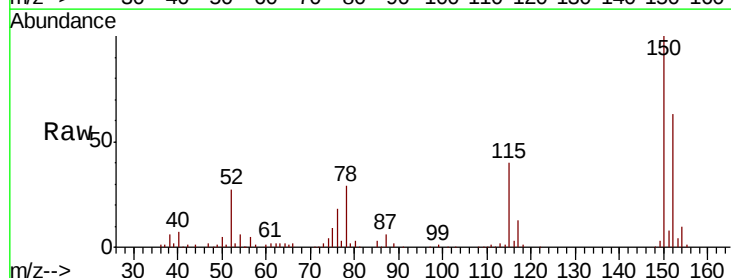
Acq: 03 Oct 2020 17:04

Tgt Ion: 75 Resp: 8489

Ion Ratio Lower Upper

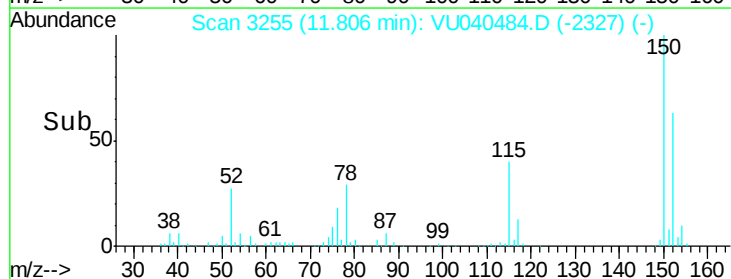
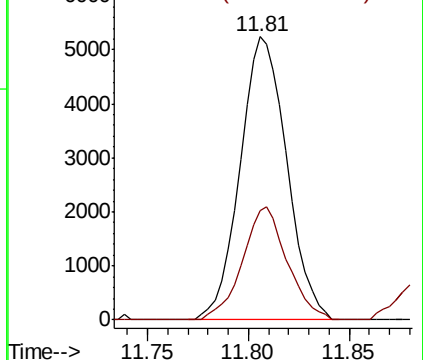
75 100

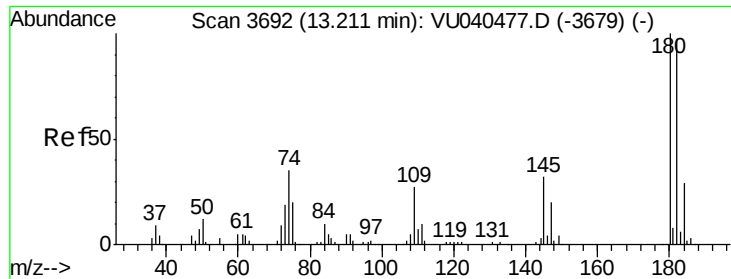
77 38.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

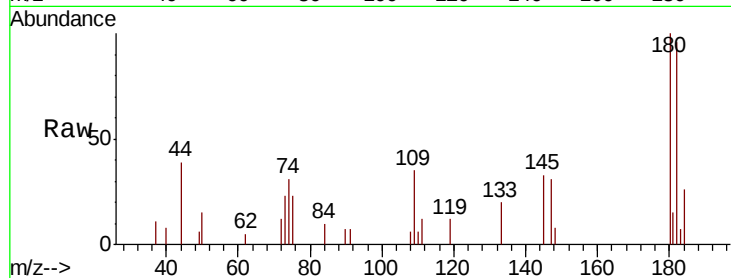




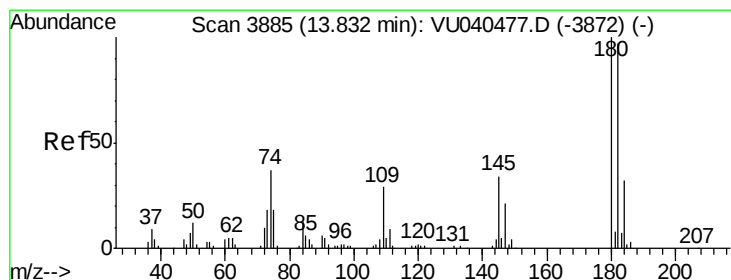
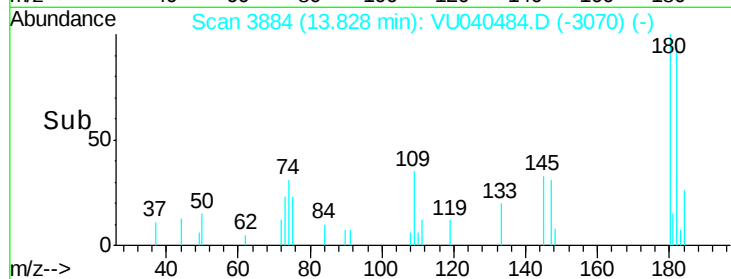
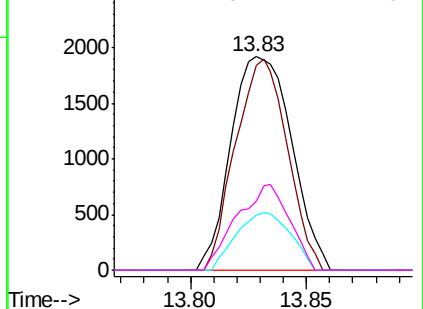
#67
 1,3,5-Trichlorobenzene
 Concen: 0.244 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.62 min
 Lab File: VU040484.D
 Acq: 03 Oct 2020 17:04

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3T3

Tot Ion:180 Resp: 3487
 Ion Ratio Lower Upper
 180 100
 182 84.1 76.5 114.7
 184 24.1 24.6 37.0#
 145 34.9 25.8 38.8

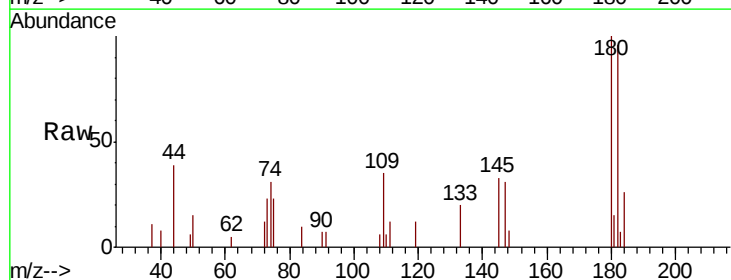


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

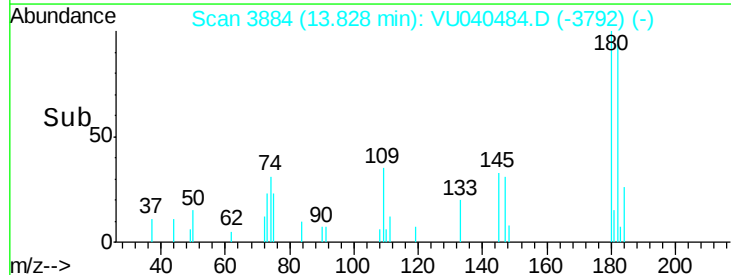
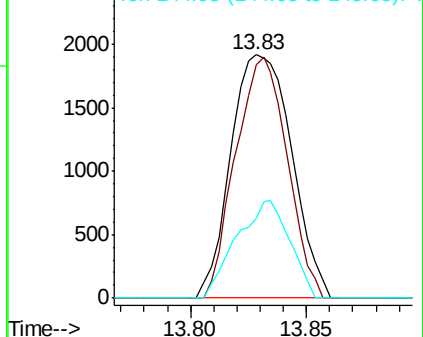


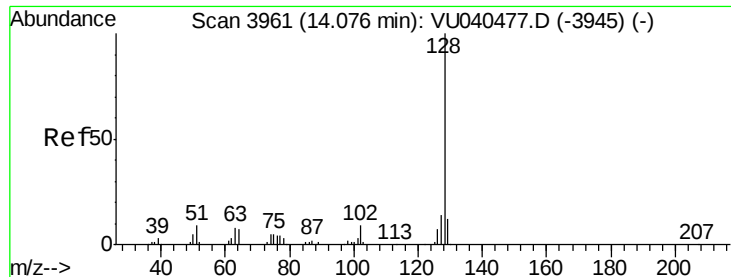
#68
 1,2,4-trichlorobenzene
 Concen: 0.304 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040484.D
 Acq: 03 Oct 2020 17:04

Tgt Ion:180 Resp: 3487
 Ion Ratio Lower Upper
 180 100
 182 84.1 76.6 115.0
 145 34.9 26.3 39.5



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.291 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

Instrument :

MSVOA_U

ClientSampleId :

BG3T3

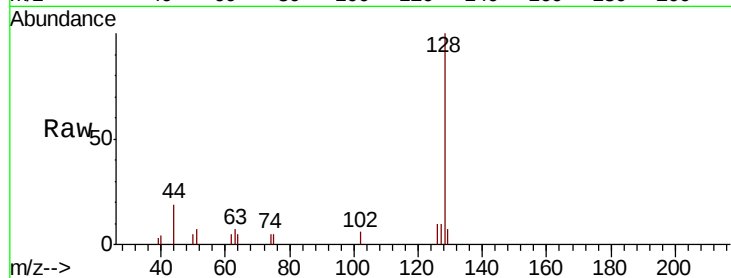
Tot Ion:128 Resp: 5716

Ion Ratio Lower Upper

128 100

129 8.2 8.2 12.4#

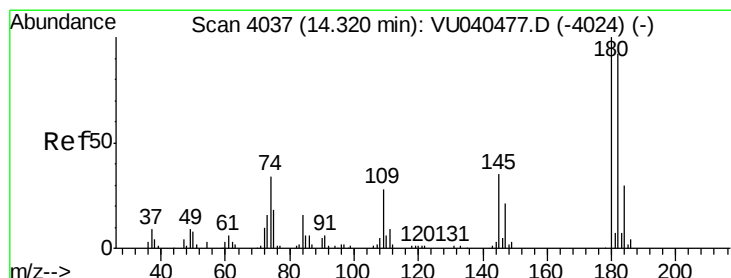
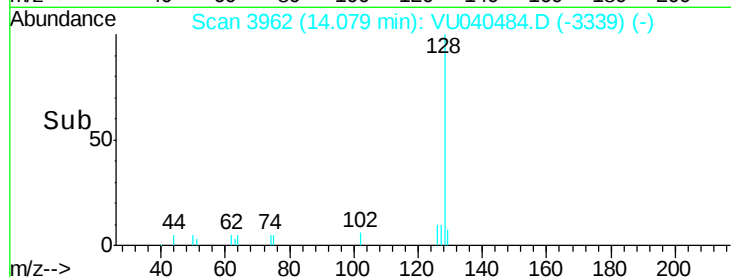
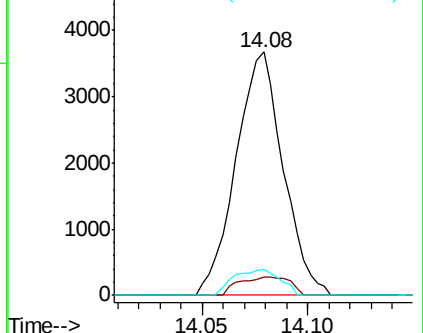
127 10.4 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.113 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU040484.D

Acq: 03 Oct 2020 17:04

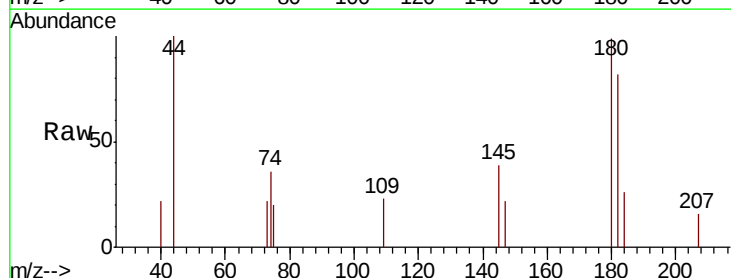
Tgt Ion:180 Resp: 1188

Ion Ratio Lower Upper

180 100

182 103.3 76.6 115.0

145 40.9 27.8 41.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

