

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092620\
 Data File : VU040320.D
 Acq On : 25 Sep 2020 23:16
 Operator : SY/MD
 Sample : L4139-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A1

Quant Time: Sep 26 06:54:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 26 06:44:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	148780	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	143202	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	69361	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	34714	4.27	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.40%
7) Chloroethane-d5	1.92	69	33368	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.58	63	60279	2.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	57.80%#
20) 2-Butanone-d5	4.66	46	198434	61.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.14%
24) Chloroform-d	5.08	84	84297	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.72	65	53360	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.20%
32) Benzene-d6	5.74	84	158518	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
36) 1,2-Dichloropropane-d6	6.70	67	55909	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.90	98	131223	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.80%
43) trans-1,3-Dichloropropene-	8.19	79	21613	4.27	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.40%
46) 2-Hexanone-d5	8.64	63	140805	58.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.44%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48874	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	55138	4.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	2443	0.284	ug/L #	51
14) Carbon disulfide	2.81	76	1745	0.047	ug/L #	88
17) Methyl tert-butyl Ether	3.38	73	22267	0.642	ug/L #	88
25) Chloroform	5.11	83	12306	0.471	ug/L	93
33) Benzene	5.79	78	24353	0.475	ug/L	100
35) Methylcyclohexane	6.70	83	12429	0.591	ug/L #	15
37) 1,2-Dichloropropane	6.70	63	6218	0.448	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1577	0.077	ug/L #	49
42) Toluene	7.98	91	36148	0.685	ug/L	95
44) trans-1,3-Dichloropropene	8.18	75	1036	0.055	ug/L #	82
48) 2-Hexanone	8.64	43	20372	2.454	ug/L #	71
51) Chlorobenzene	9.45	112	15755	0.481	ug/L	98
52) Ethylbenzene	9.57	91	8753	0.146	ug/L	99
53) m,p-Xylene	9.69	106	9409	0.441	ug/L	91
54) o-Xylene	10.10	106	3257	0.160	ug/L	77
56) Isopropylbenzene	10.48	105	4503	0.081	ug/L	96
59) 1,2,3-Trichloropropane	11.81	75	10548	1.026	ug/L #	87

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Sep 26 06:44:13 2020
Response via : Initial Calibration

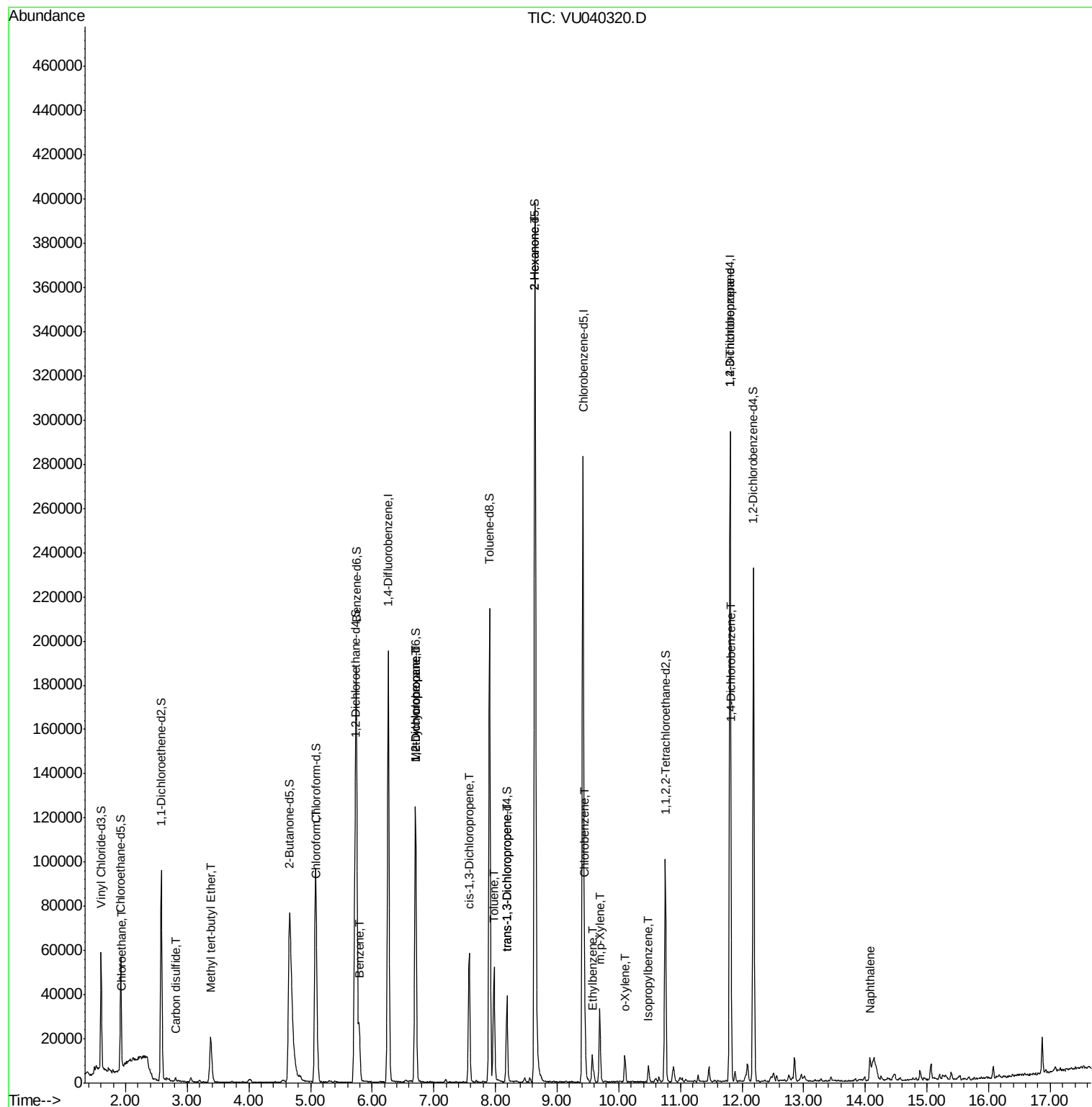
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.83	146	1831	0.071	ug/L #	82
69) Naphthalene	14.07	128	6981	0.218	ug/L	97

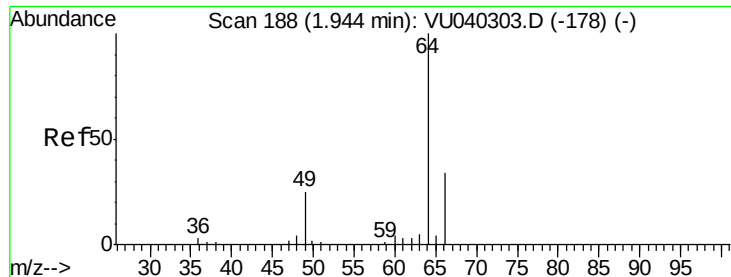
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.284 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

Instrument :

MSVOA_U

ClientSampleId :

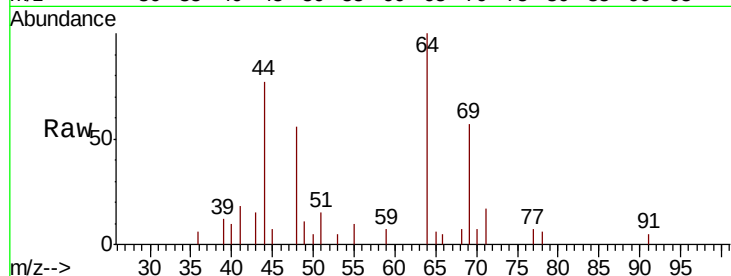
BG4A1

Tot Ion: 64 Resp: 2443

Ion Ratio Lower Upper

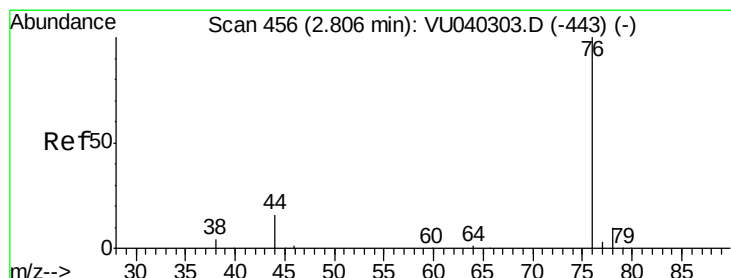
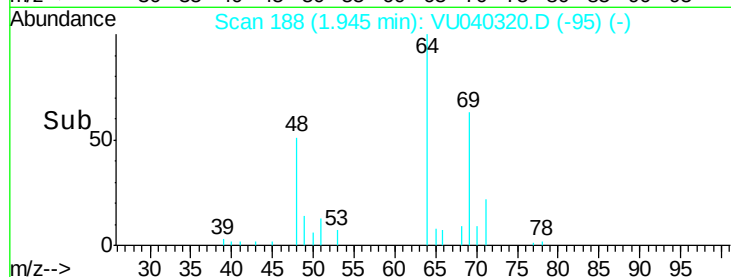
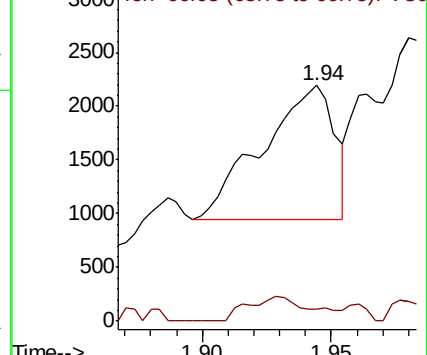
64 100

66 5.2 22.7 42.1#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#14

Carbon disulfide

Concen: 0.047 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040320.D

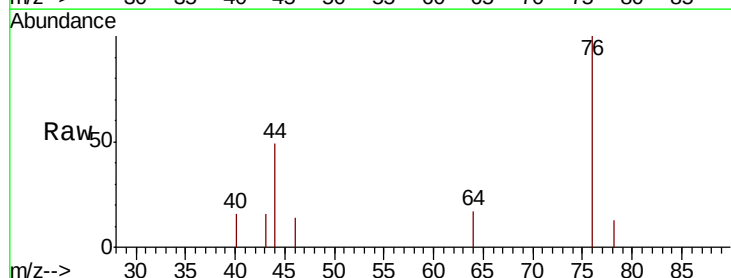
Acq: 25 Sep 2020 23:16

Tgt Ion: 76 Resp: 1745

Ion Ratio Lower Upper

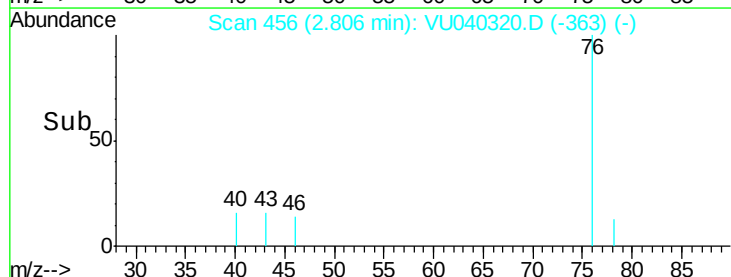
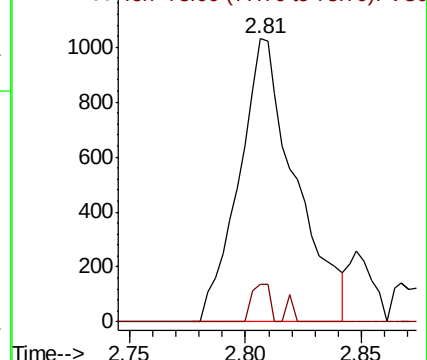
76 100

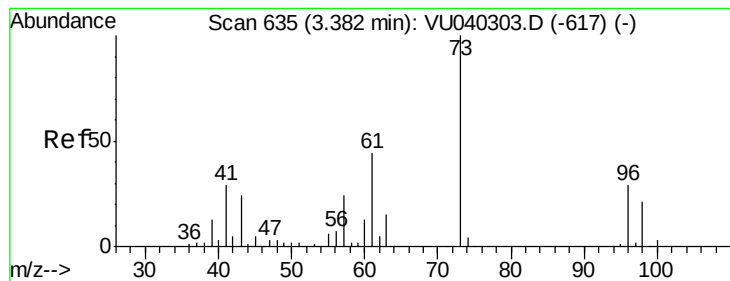
78 13.3 7.2 10.8#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#17

Methyl tert-butyl Ether

Concen: 0.642 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

Instrument :

MSVOA_U

ClientSampleID :

BG4A1

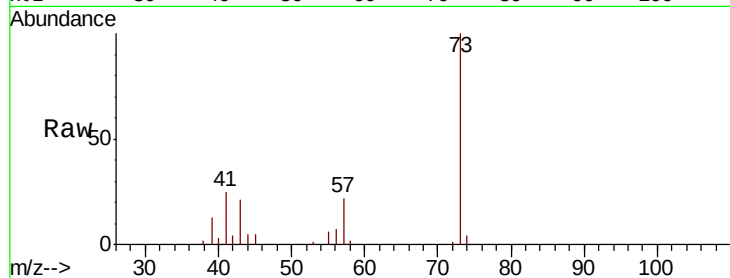
Tot Ion: 73 Resp: 22267

Ion Ratio Lower Upper

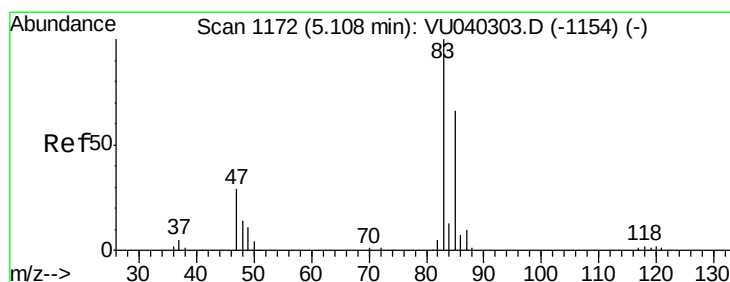
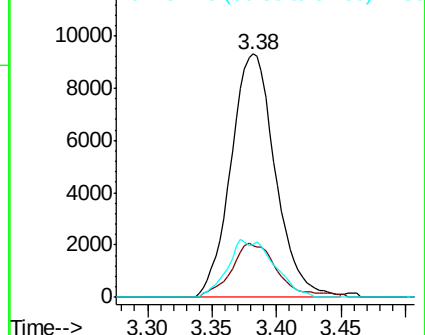
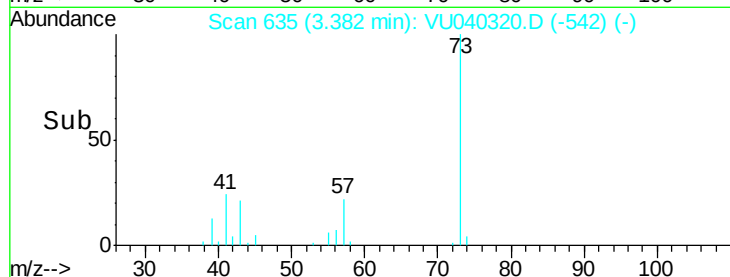
73 100

43 22.7 19.1 28.7

57 11.8 18.3 27.5#



Abundance Ion 73.10 (72.80 to 73.80): VU040320.D (-542) (-)



#25

Chloroform

Concen: 0.471 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU040320.D

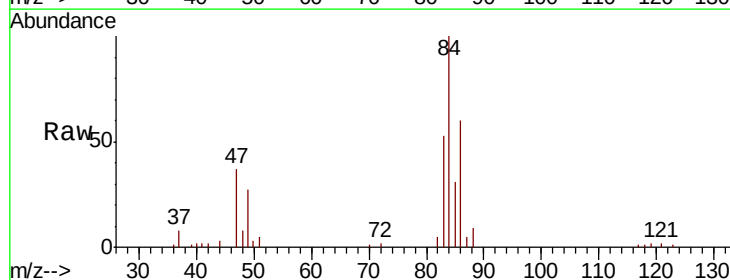
Acq: 25 Sep 2020 23:16

Tgt Ion: 83 Resp: 12306

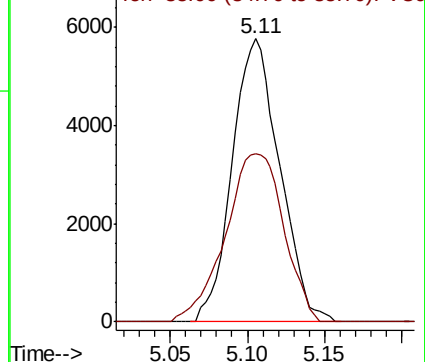
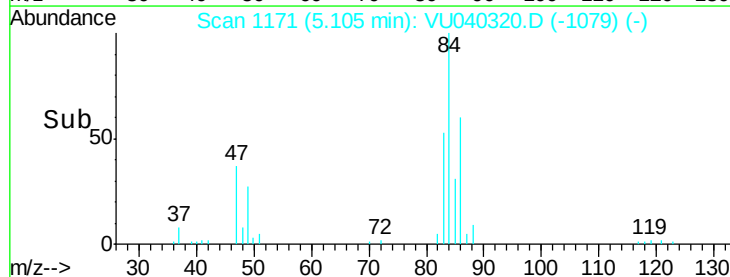
Ion Ratio Lower Upper

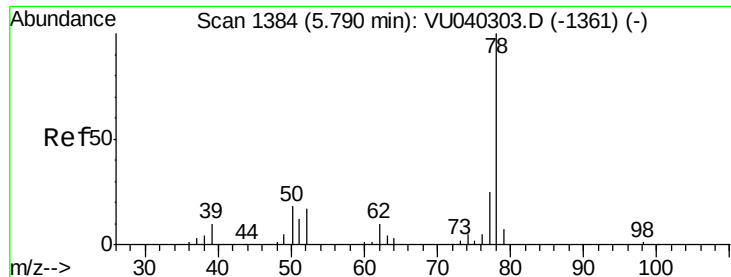
83 100

85 59.3 45.3 84.1



Abundance Ion 83.05 (82.75 to 83.75): VU040320.D (-1079) (-)





#33

Benzene

Concen: 0.475 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

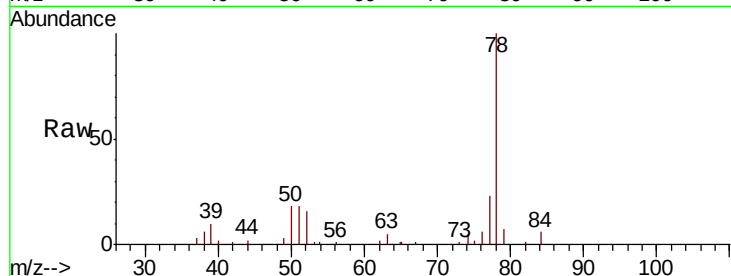
Instrument :

MSVOA_U

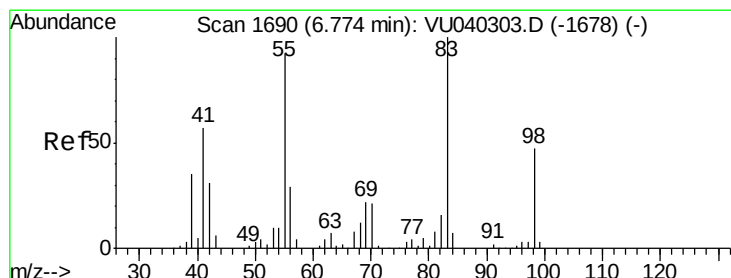
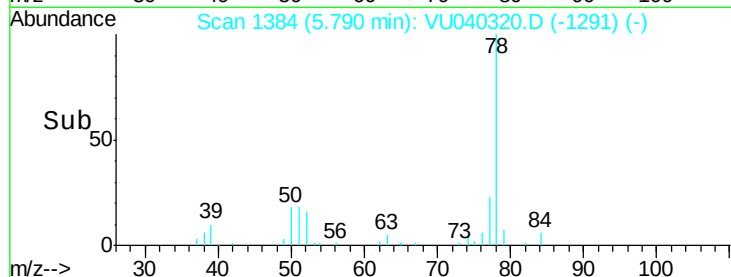
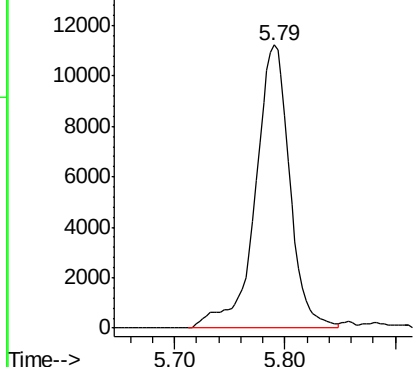
ClientSampleId :

BG4A1

Tgt Ion: 78 Resp: 24353



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.591 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040320.D

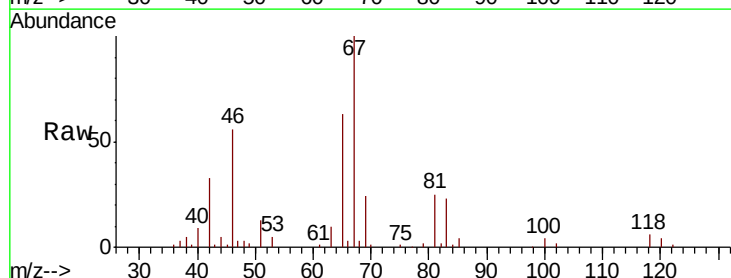
Acq: 25 Sep 2020 23:16

Tgt Ion: 83 Resp: 12429

Ion	Ratio	Lower	Upper
83	100		

55	0.4	70.5	105.7#
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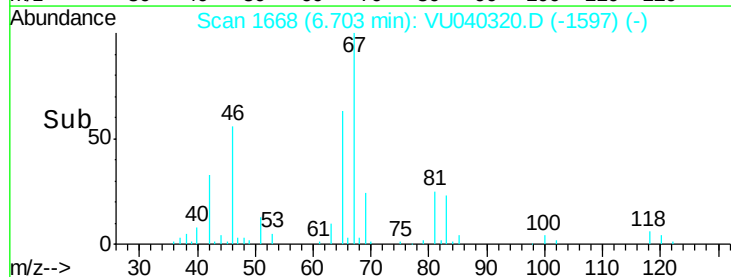
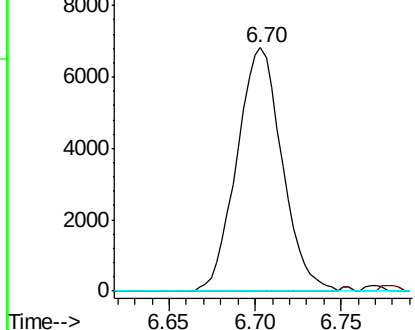
98	1.6	37.8	56.6#
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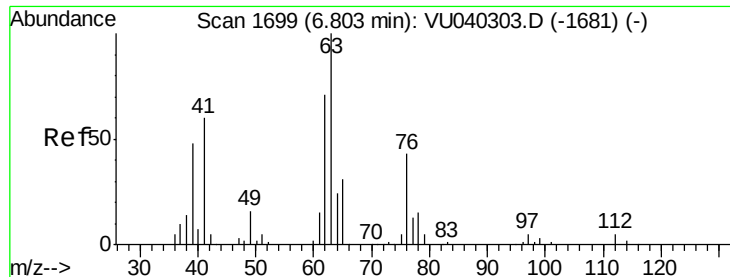


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

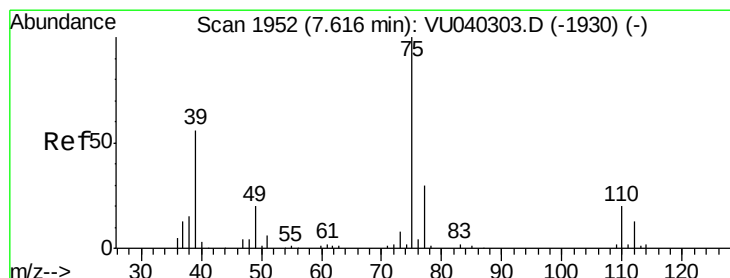
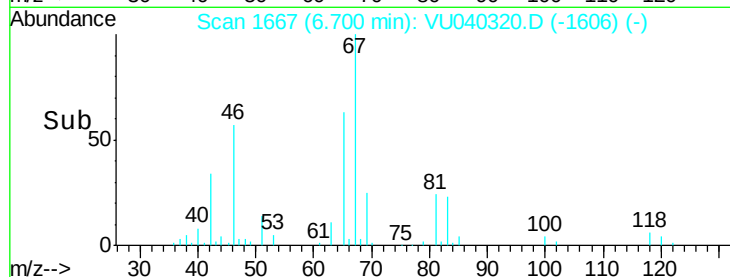
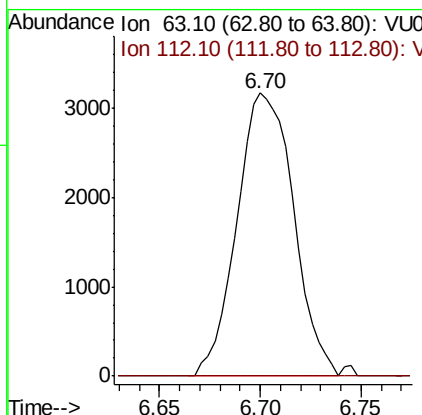
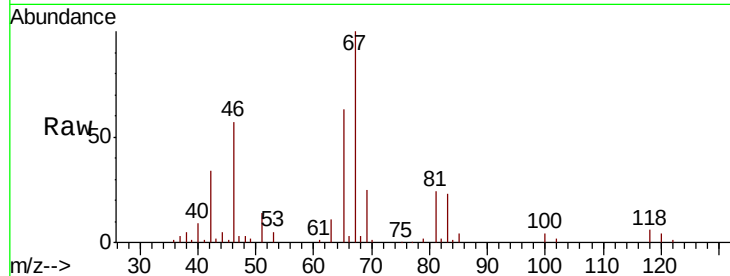




#37
 1,2-Dichloropropane
 Concen: 0.448 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU040320.D
 Acq: 25 Sep 2020 23:16

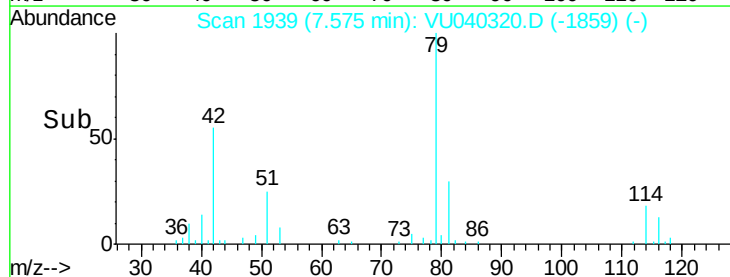
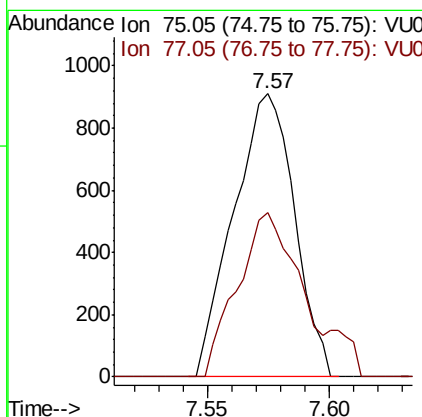
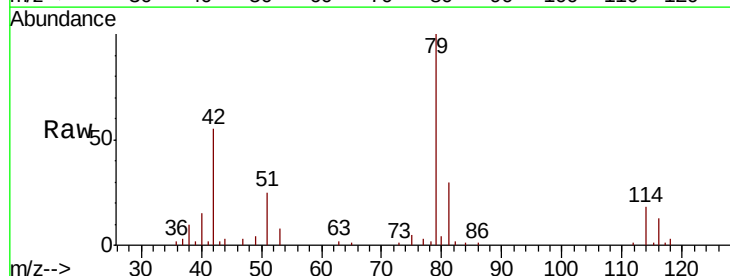
Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A1

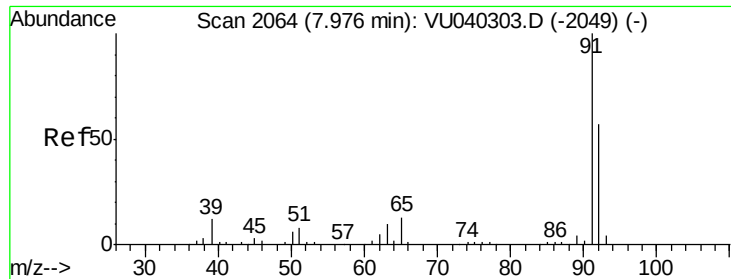
Tot Ion: 63 Resp: 6218
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.077 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040320.D
 Acq: 25 Sep 2020 23:16

Tgt Ion: 75 Resp: 1577
 Ion Ratio Lower Upper
 75 100
 77 57.9 21.1 39.3#





#42

Toluene

Concen: 0.685 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

Instrument :

MSVOA_U

ClientSampleId :

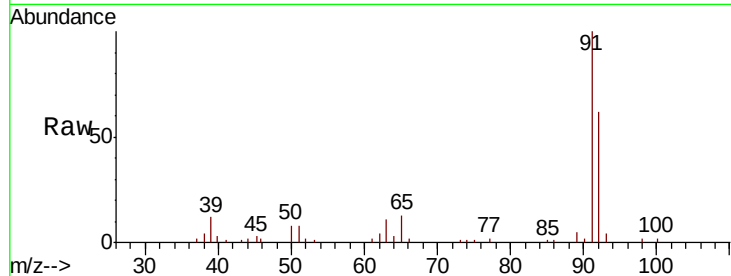
BG4A1

Tot Ion: 91 Resp: 36148

Ion Ratio Lower Upper

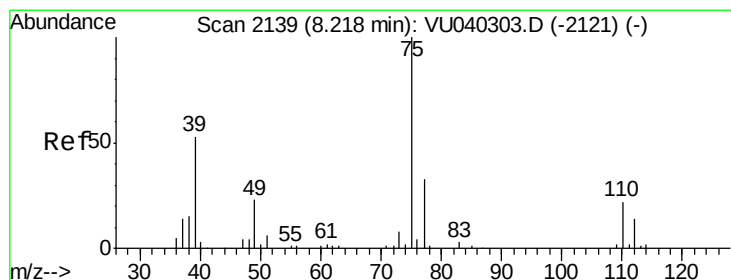
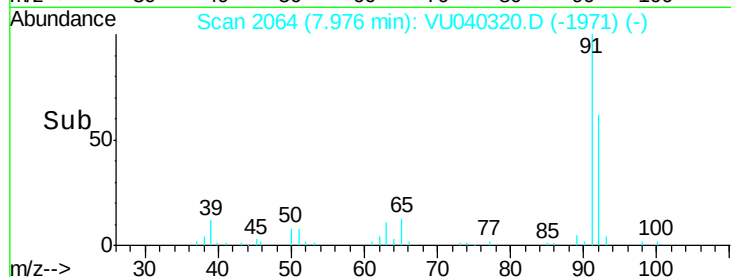
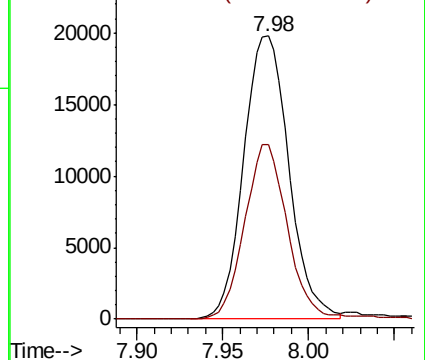
91 100

92 61.5 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.055 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.04 min

Lab File: VU040320.D

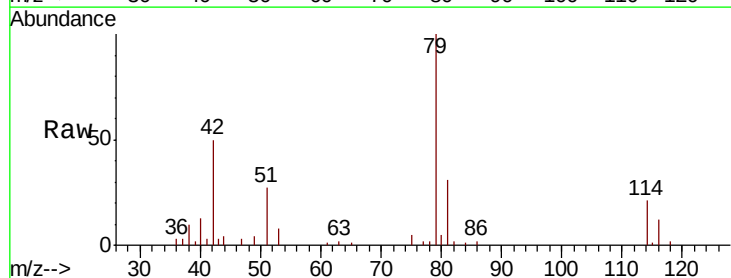
Acq: 25 Sep 2020 23:16

Tgt Ion: 75 Resp: 1036

Ion Ratio Lower Upper

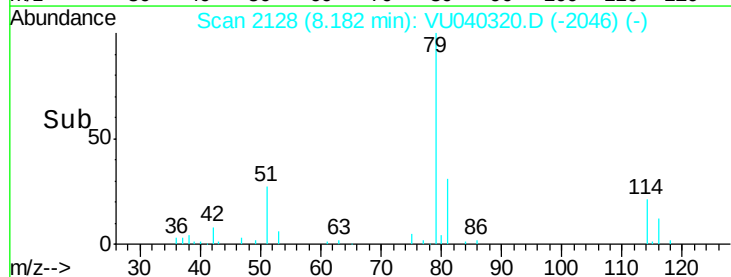
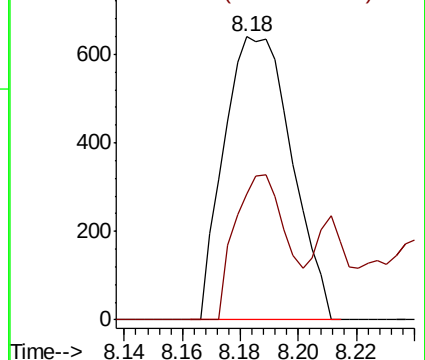
75 100

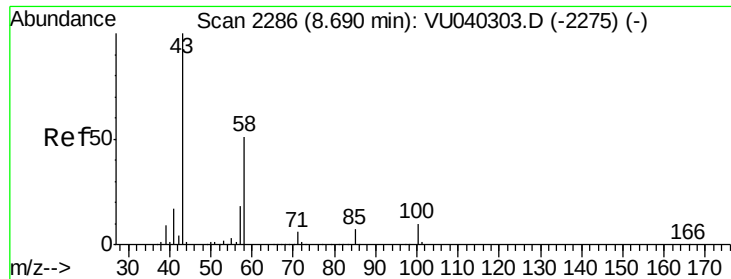
77 44.4 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

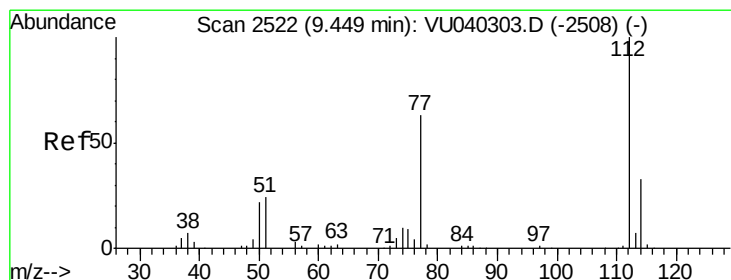
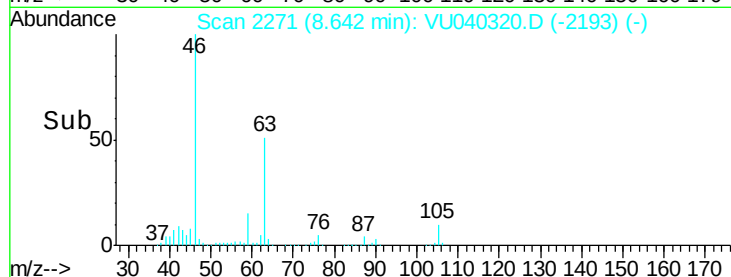
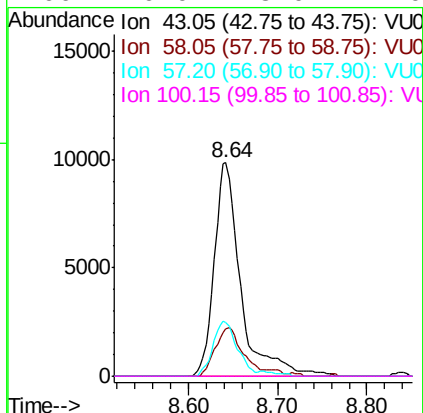
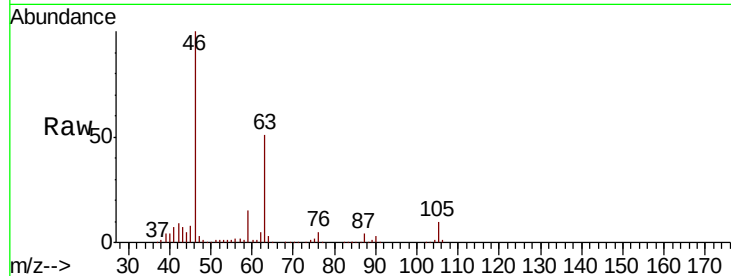




#48
2-Hexanone
Concen: 2.454 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040320.D
Acq: 25 Sep 2020 23:16

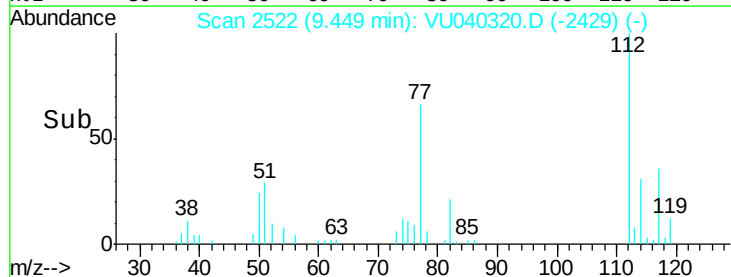
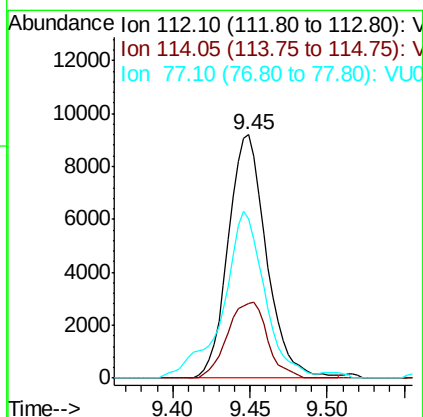
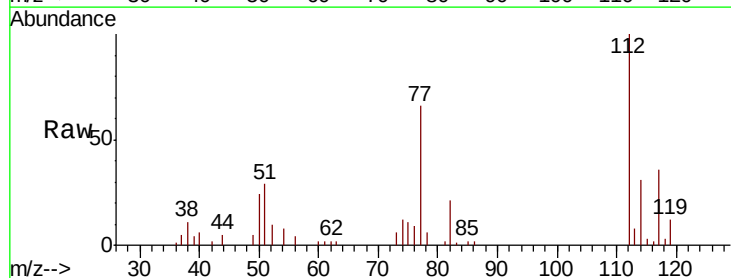
Instrument :
MSVOA_U
ClientSampleId :
BG4A1

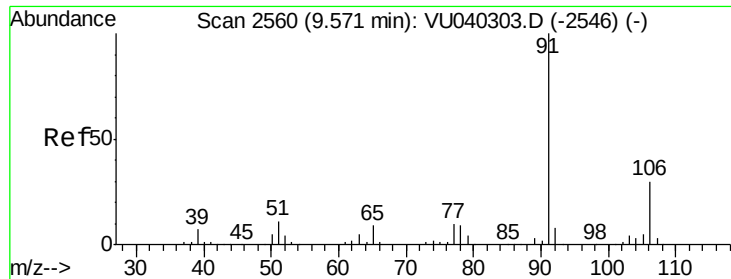
Tot Ion:	43	Resp:	20372
Ion	Ratio	Lower	Upper
43	100		
58	25.1	39.6	59.4#
57	23.4	14.3	21.5#
100	0.0	8.0	12.0#



#51
Chlorobenzene
Concen: 0.481 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040320.D
Acq: 25 Sep 2020 23:16

Tgt Ion:	112	Resp:	15755
Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.7	42.3
77	65.6	53.2	79.8





#52

Ethylbenzene

Concen: 0.146 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

Instrument :

MSVOA_U

ClientSampleId :

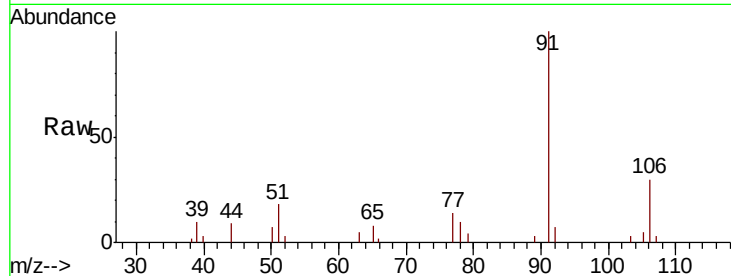
BG4A1

Tot Ion: 91 Resp: 8753

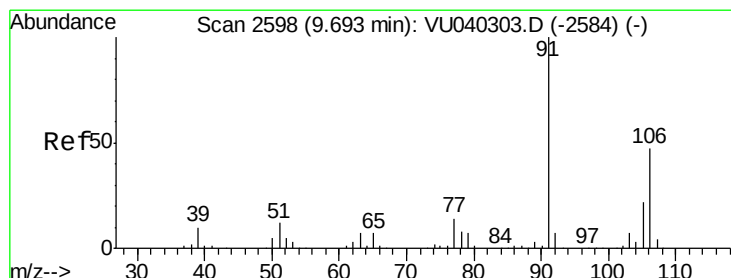
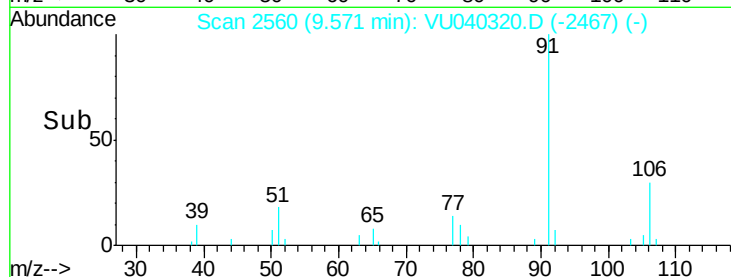
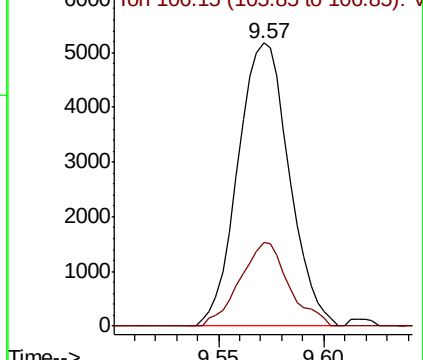
Ion Ratio Lower Upper

91 100

106 29.6 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040320.D (-2467) (-)



#53

m,p-Xylene

Concen: 0.441 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040320.D

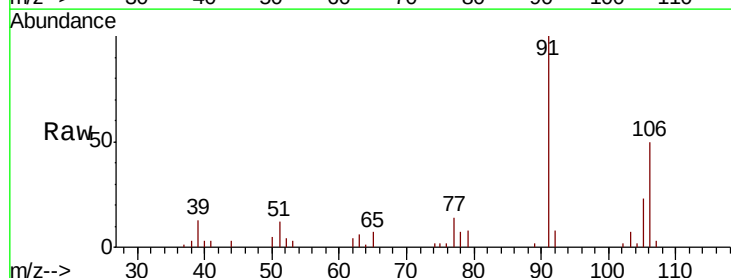
Acq: 25 Sep 2020 23:16

Tgt Ion: 106 Resp: 9409

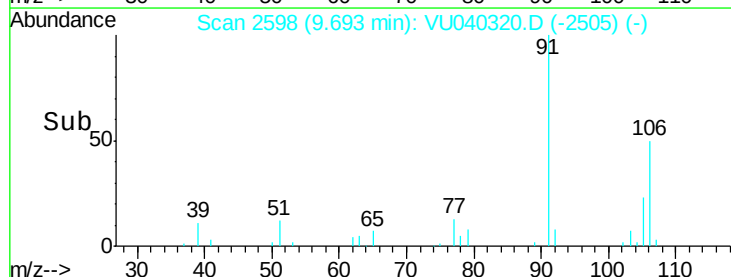
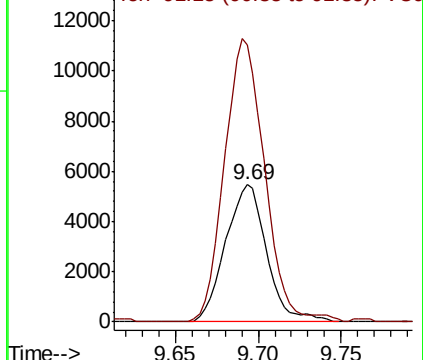
Ion Ratio Lower Upper

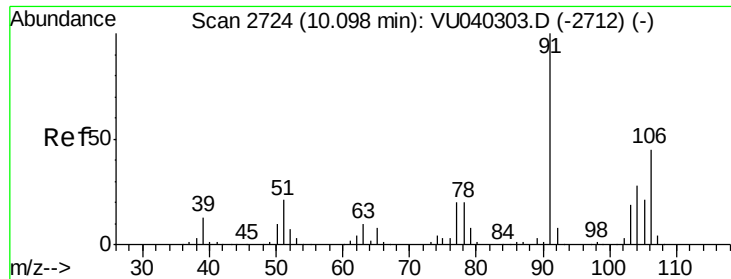
106 100

91 201.9 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): VU040320.D (-2505) (-)

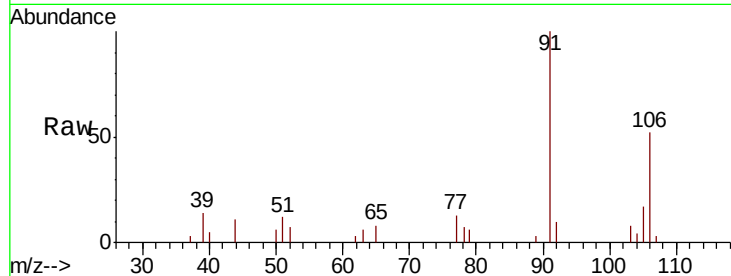




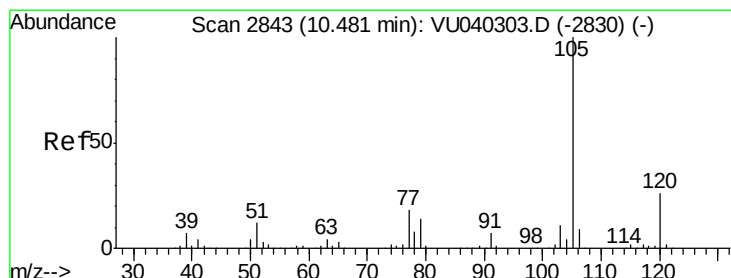
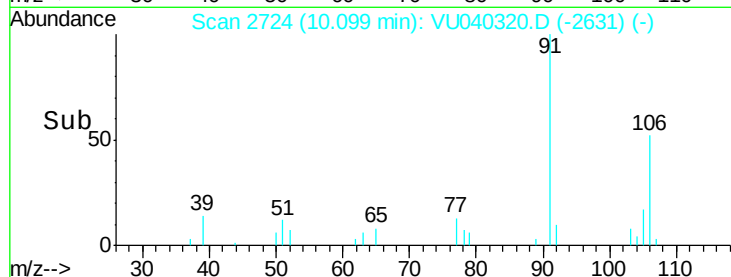
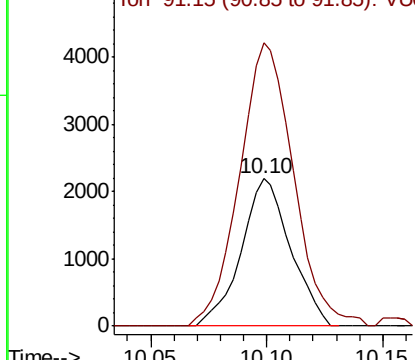
#54
o-Xylene
Concen: 0.160 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. 0.00 min
Lab File: VU040320.D
Acq: 25 Sep 2020 23:16

Instrument :
MSVOA_U
ClientSampleId :
BG4A1

Tot Ion:106 Resp: 3257
Ion Ratio Lower Upper
106 100
91 192.0 160.8 298.6

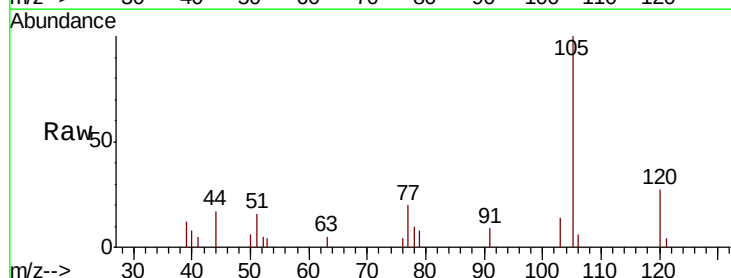


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

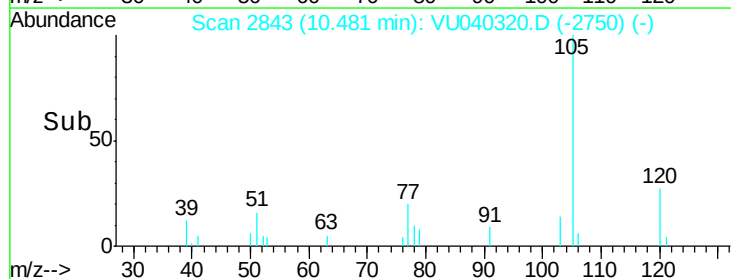
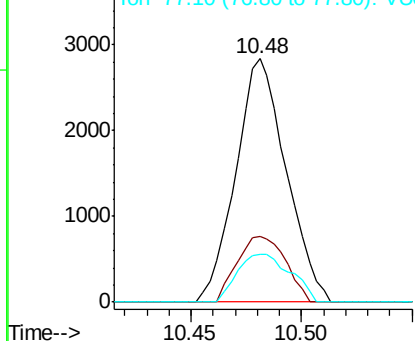


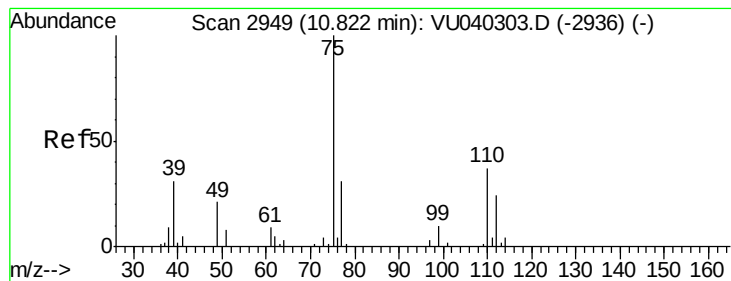
#56
Isopropylbenzene
Concen: 0.081 ug/L
RT: 10.48 min Scan# 2843
Delta R.T. 0.00 min
Lab File: VU040320.D
Acq: 25 Sep 2020 23:16

Tgt Ion:105 Resp: 4503
Ion Ratio Lower Upper
105 100
120 26.0 20.1 30.1
77 20.8 14.4 21.6



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: 1.026 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

Instrument :

MSVOA_U

ClientSampleId :

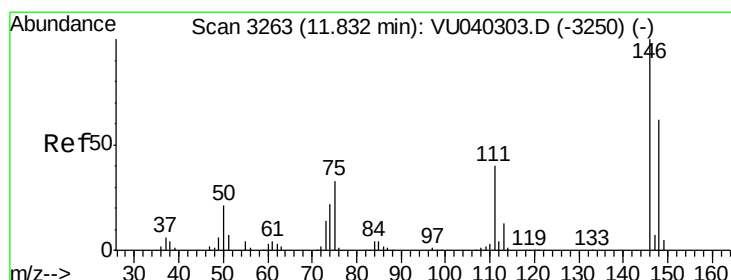
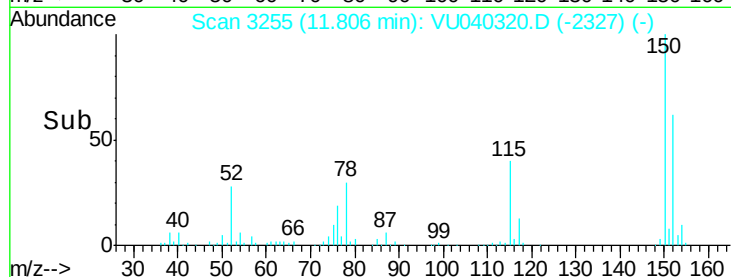
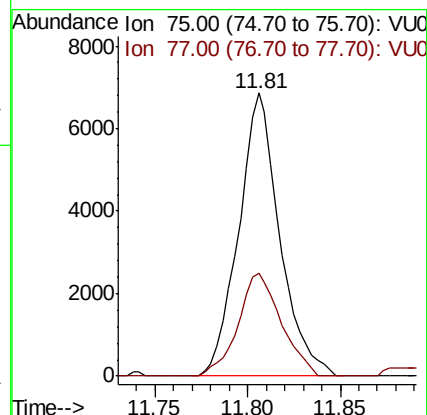
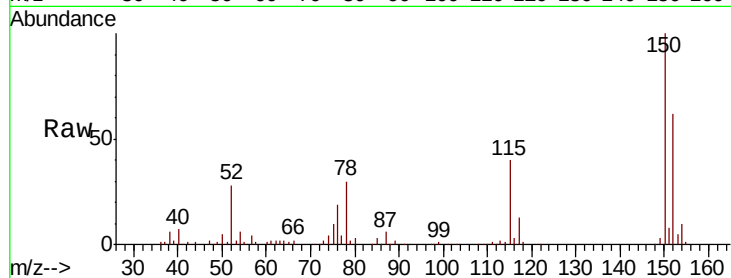
BG4A1

Tot Ion: 75 Resp: 10548

Ion Ratio Lower Upper

75 100

77 38.3 24.9 37.3#



#63

1,4-Dichlorobenzene

Concen: 0.071 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

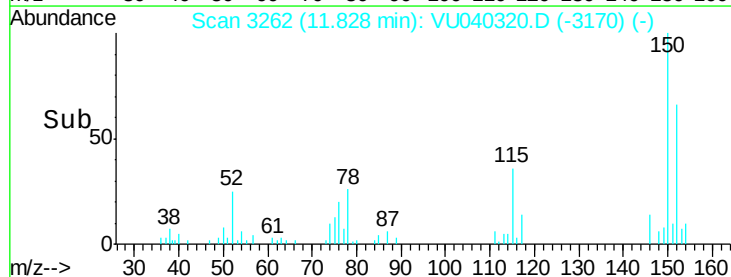
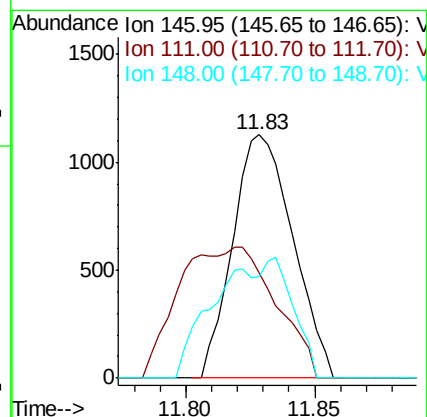
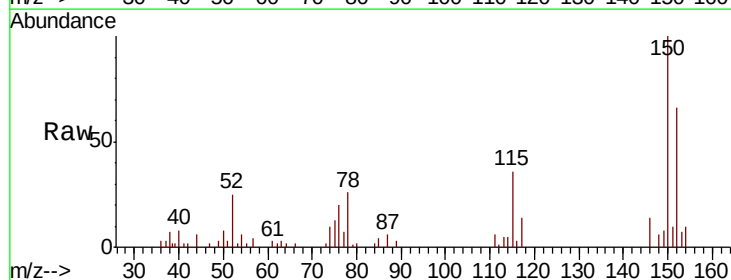
Tgt Ion: 146 Resp: 1831

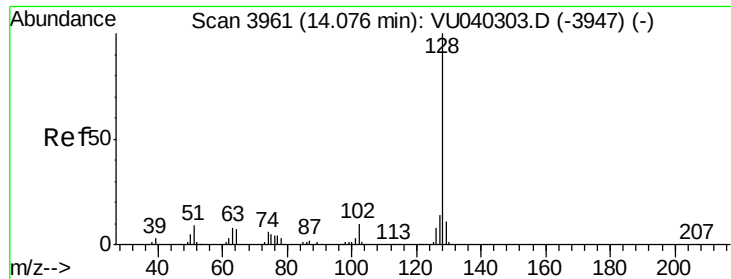
Ion Ratio Lower Upper

146 100

111 43.3 30.5 56.7

148 41.8 45.4 84.4#





#69

Naphthalene

Concen: 0.218 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. -0.00 min

Lab File: VU040320.D

Acq: 25 Sep 2020 23:16

Instrument :

MSVOA_U

ClientSampleId :

BG4A1

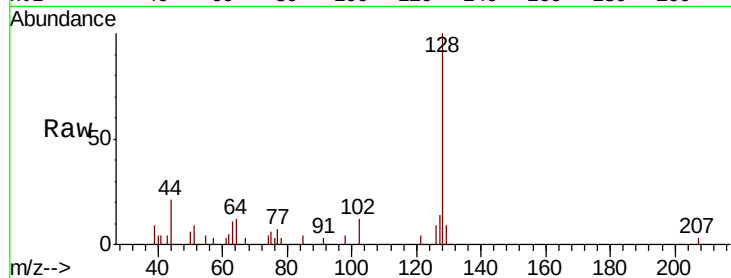
Tot Ion:128 Resp: 6981

Ion Ratio Lower Upper

128 100

129 9.0 8.7 13.1

127 12.6 10.7 16.1



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

