

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052620\
 Data File : VU038307.D
 Acq On : 26 May 2020 19:19
 Operator : JC/MD
 Sample : L2749-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 27 06:56:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed May 27 06:51:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	306998	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	309851	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	154996	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	93295	3.32	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.40%
7) Chloroethane-d5	1.93	69	83754	3.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	69.00%
11) 1,1-Dichloroethene-d2	2.59	63	142386	3.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.60%
20) 2-Butanone-d5	4.66	46	352568	50.89	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.78%
24) Chloroform-d	5.10	84	201892	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.74	65	118137	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
32) Benzene-d6	5.76	84	417660	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.72	67	134395	4.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.60%
41) Toluene-d8	7.92	98	376393	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
43) trans-1,3-Dichloropropene-	8.20	79	54198	4.52	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.40%
46) 2-Hexanone-d5	8.65	63	275192	48.55	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.10%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	111713	4.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	152091	5.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

					Ovalue
3) Chloromethane	1.50	50	24411	0.721 ug/L #	45
13) Acetone	2.65	43	8034	1.848 ug/L	91
17) Methyl tert-butyl Ether	3.40	73	30620	0.517 ug/L #	23
30) Cyclohexane	5.42	56	14451	0.345 ug/L	95
33) Benzene	5.81	78	81329	0.820 ug/L	100
35) Methylcyclohexane	6.79	83	8341	0.207 ug/L	88
37) 1,2-Dichloropropane	6.72	63	14959	0.555 ug/L #	91
39) cis-1,3-Dichloropropene	7.59	75	3844	0.100 ug/L #	83
42) Toluene	7.99	91	8700	0.083 ug/L	100
48) 2-Hexanone	8.71	43	20822	1.522 ug/L #	94
51) Chlorobenzene	9.47	112	9972173	153.411 ug/L	100
54) o-Xylene	10.12	106	6775	0.161 ug/L	97
56) Isopropylbenzene	10.50	105	193660	1.792 ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	14910	0.296 ug/L	96
63) 1,4-Dichlorobenzene	11.85	146	95210	1.863 ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	32423	0.668 ug/L	98
69) Naphthalene	14.11	128	7858	0.112 ug/L	97

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: May 27 06:56:54 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed May 27 06:51:51 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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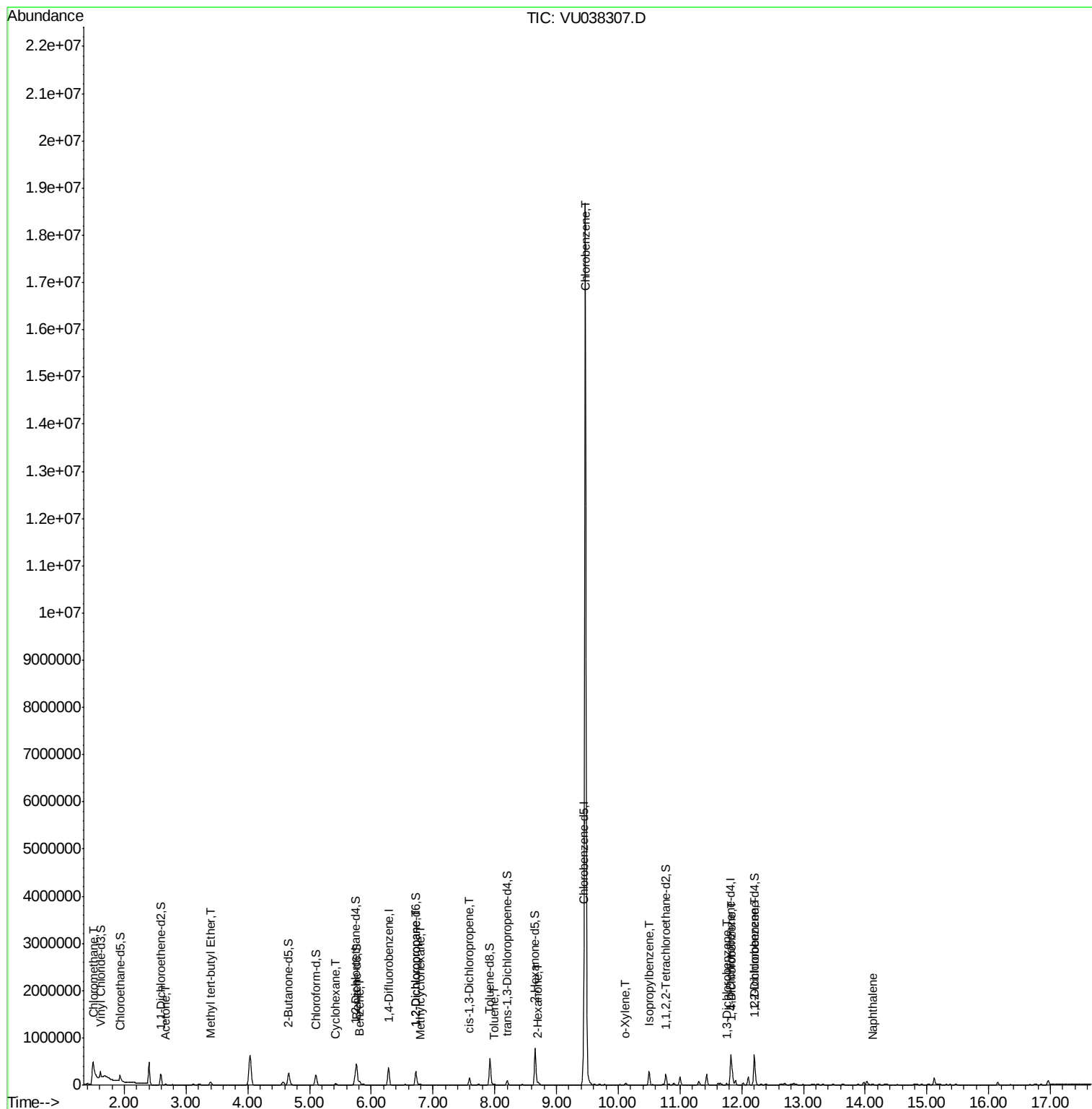
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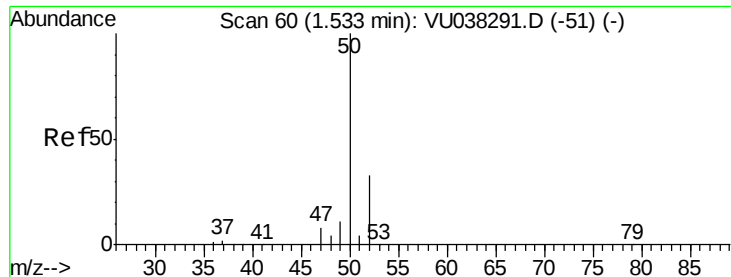
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed May 27 06:51:51 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.721 ug/L

RT: 1.50 min Scan# 49

Delta R.T. -0.04 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

Instrument :

MSVOA_U

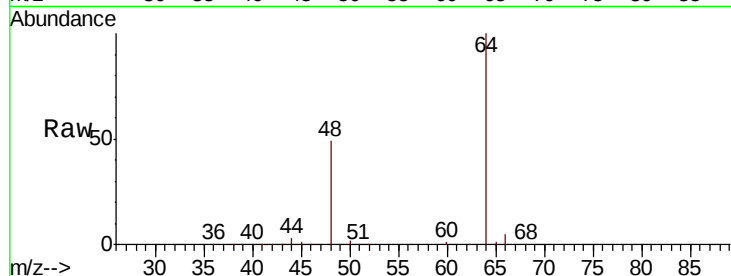
ClientSampleId :

Tot Ion: 50 Resp: 24411

Ion Ratio Lower Upper

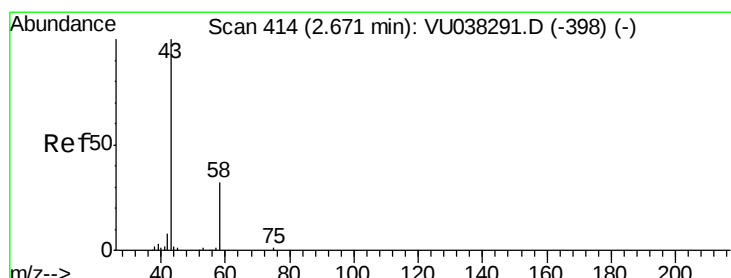
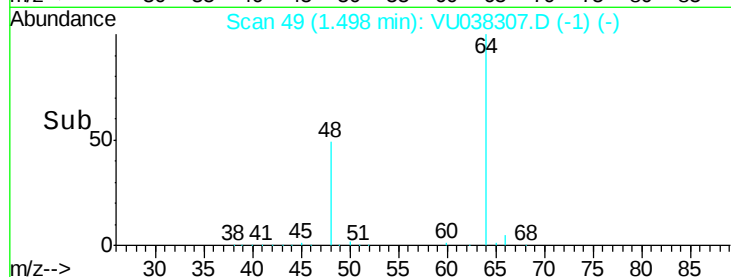
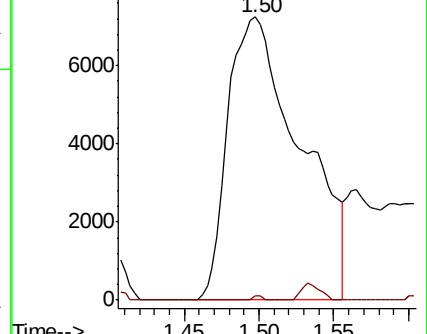
50 100

52 1.5 22.5 41.7#



Abundance Ion 50.05 (49.75 to 50.75): VU038307.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU038307.D (-1) (-)



#13

Acetone

Concen: 1.848 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.02 min

Lab File: VU038307.D

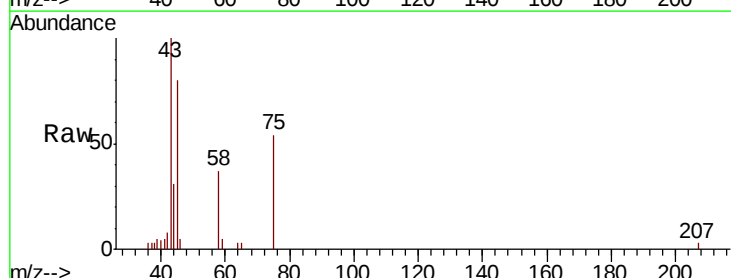
Acq: 26 May 2020 19:19

Tgt Ion: 43 Resp: 8034

Ion Ratio Lower Upper

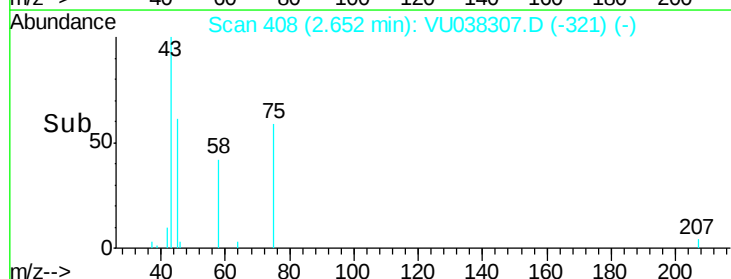
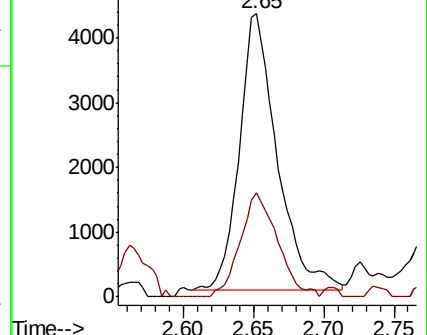
43 100

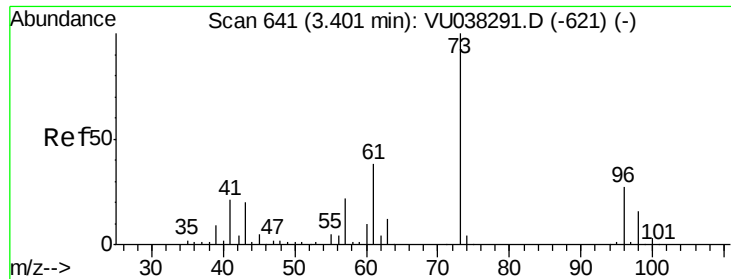
58 37.1 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038307.D (-321) (-)

Ion 58.05 (57.75 to 58.75): VU038307.D (-321) (-)

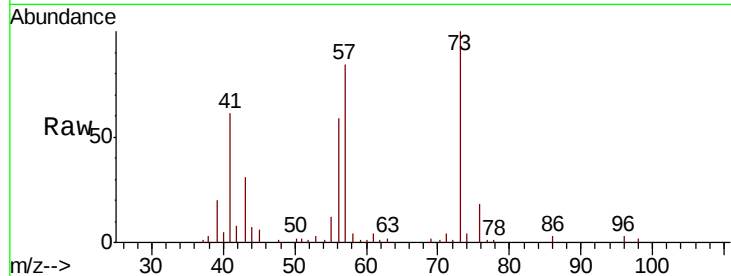




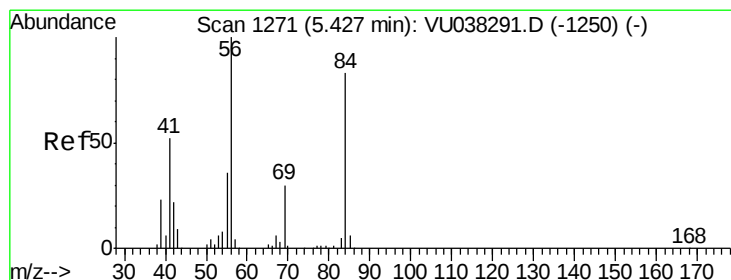
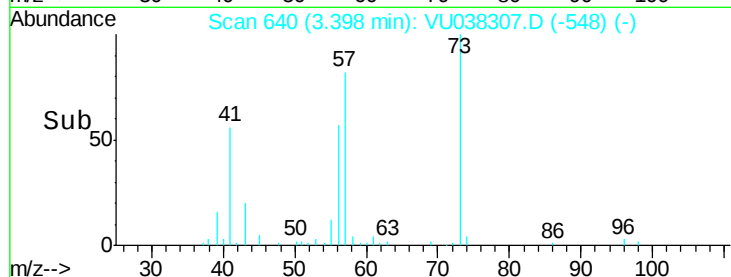
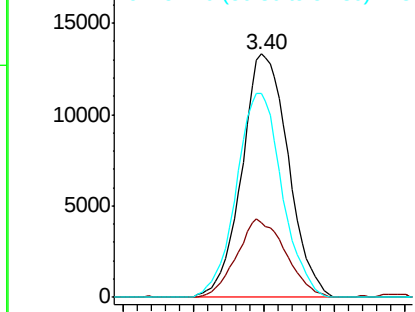
#17
Methvl tert-butvl Ether
Concen: 0.517 ug/L
RT: 3.40 min Scan# 640
Delta R.T. -0.00 min
Lab File: VU038307.D
Acq: 26 May 2020 19:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 30620
Ion Ratio Lower Upper
73 100
43 33.8 16.9 25.3#
57 82.4 18.2 27.2#

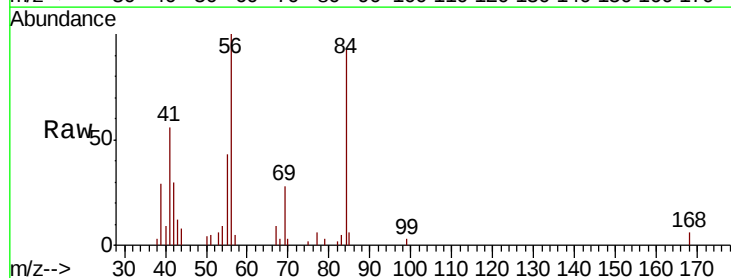


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

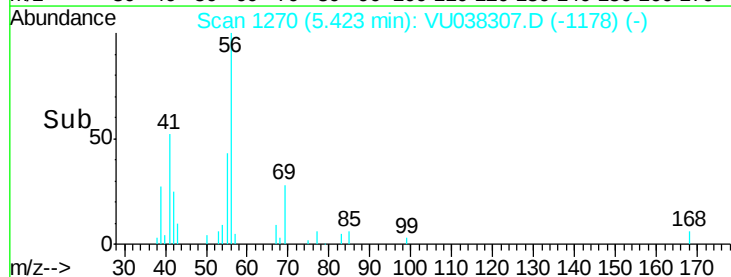
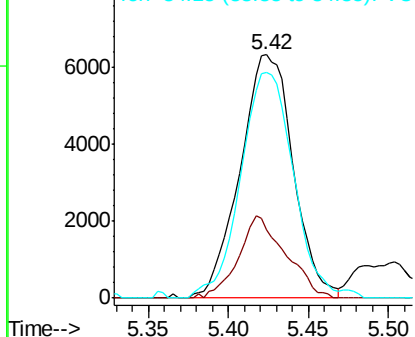


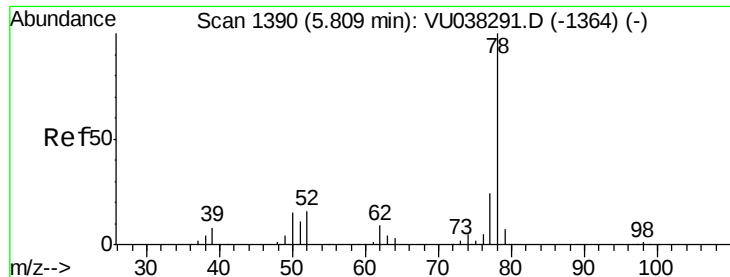
#30
Cyclohexane
Concen: 0.345 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038307.D
Acq: 26 May 2020 19:19

Tgt Ion: 56 Resp: 14451
Ion Ratio Lower Upper
56 100
69 29.8 24.2 36.4
84 91.6 68.5 102.7



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: 0.820 ug/L

RT: 5.81 min Scan# 1390

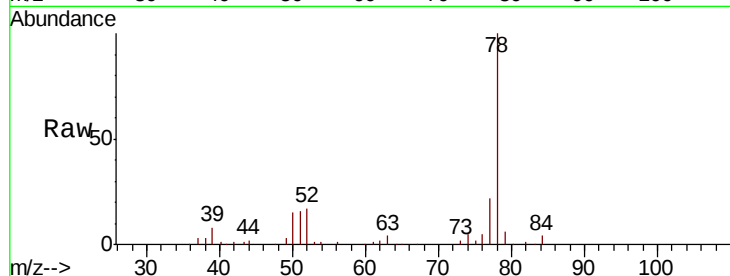
Delta R.T. -0.00 min

Lab File: VU038307.D

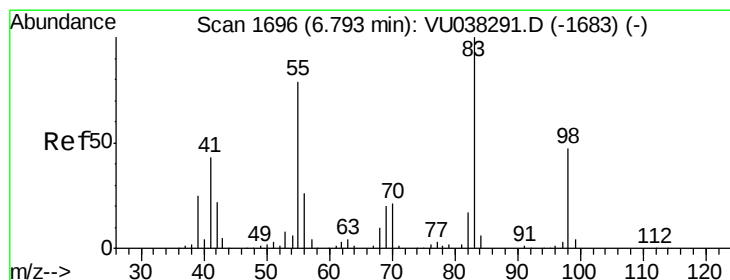
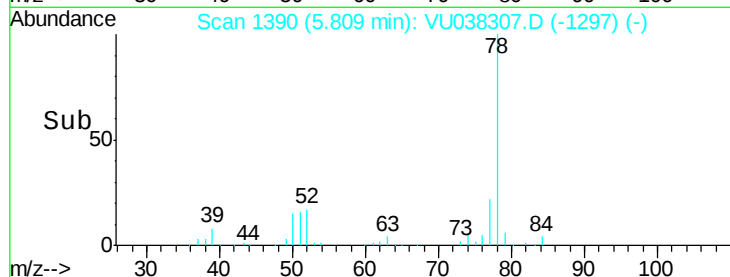
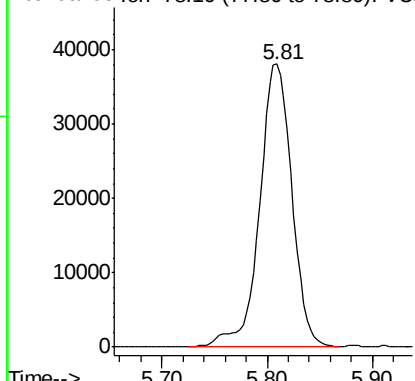
Acq: 26 May 2020 19:19

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 81329



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.207 ug/L

RT: 6.79 min Scan# 1695

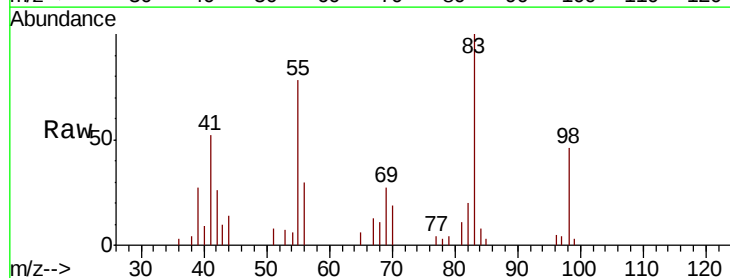
Delta R.T. -0.00 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

Tgt Ion: 83 Resp: 8341

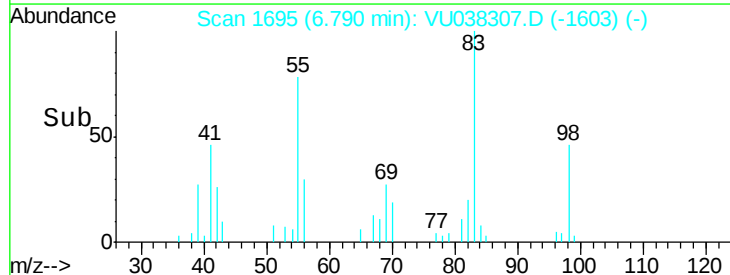
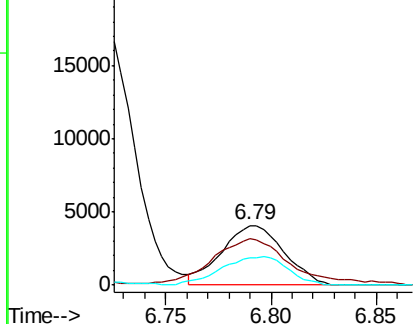
Ion	Ratio	Lower	Upper
83	100		
55	99.4	66.7	100.1
98	50.6	39.4	59.2

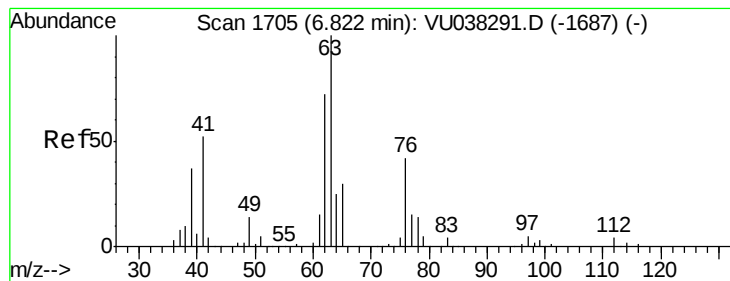


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.555 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

Instrument :

MSVOA_U

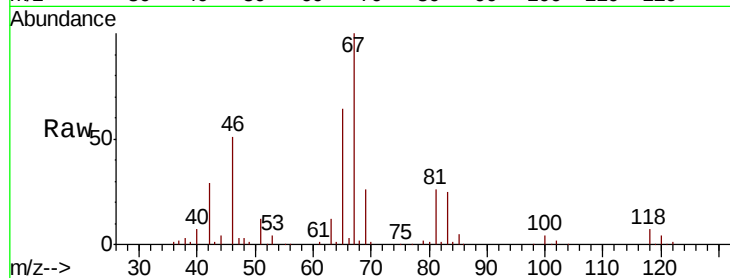
ClientSampled :

Tot Ion: 63 Resp: 14959

Ion Ratio Lower Upper

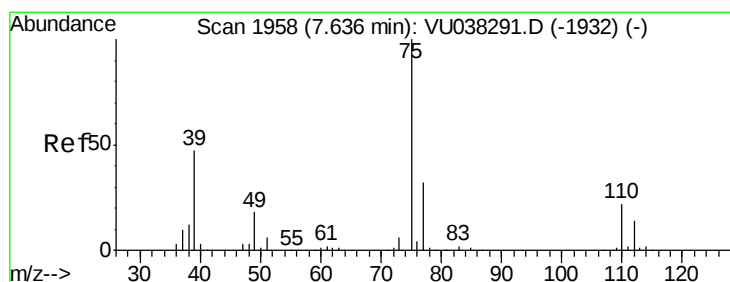
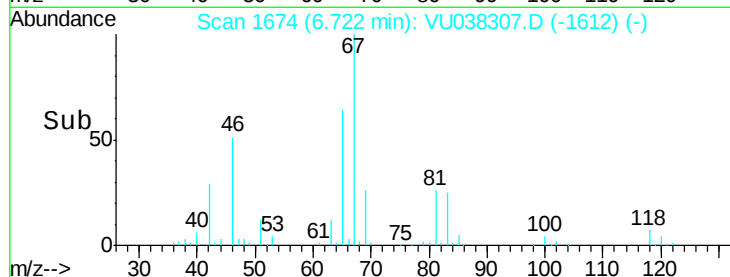
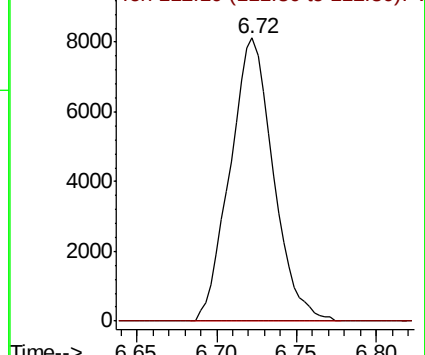
63 100

112 0.9 3.1 4.7#



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: 0.100 ug/L

RT: 7.59 min Scan# 1944

Delta R.T. -0.05 min

Lab File: VU038307.D

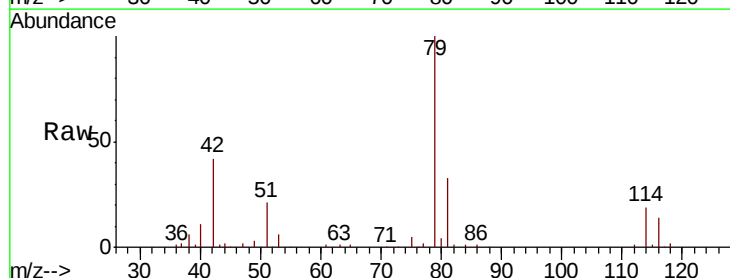
Acq: 26 May 2020 19:19

Tgt Ion: 75 Resp: 3844

Ion Ratio Lower Upper

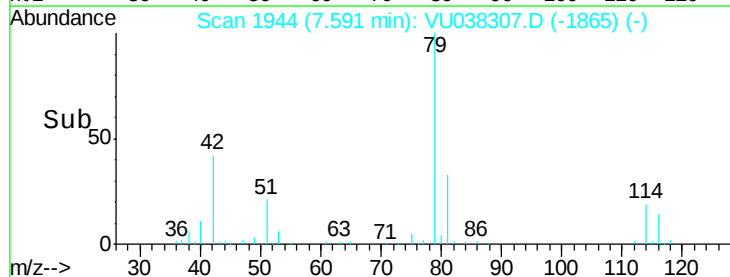
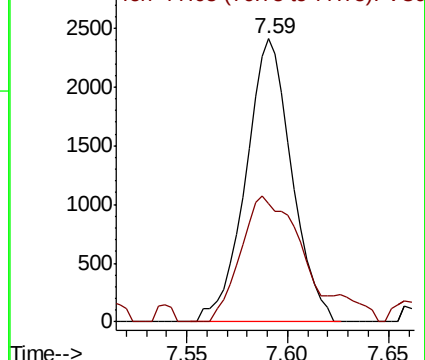
75 100

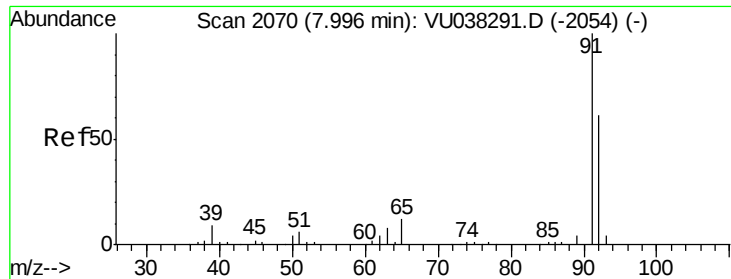
77 41.7 22.4 41.6#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#42

Toluene

Concen: 0.083 ug/L

RT: 7.99 min Scan# 2068

Delta R.T. -0.01 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

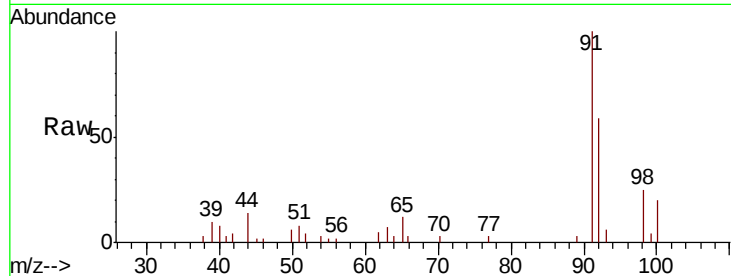
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 8700

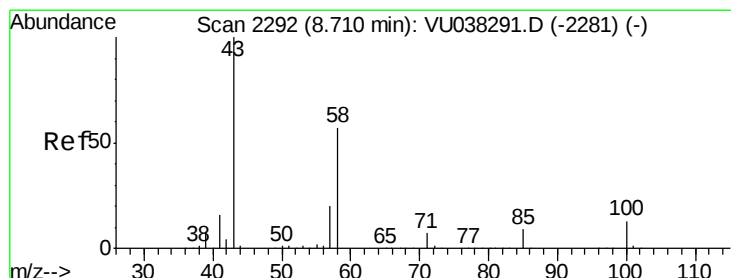
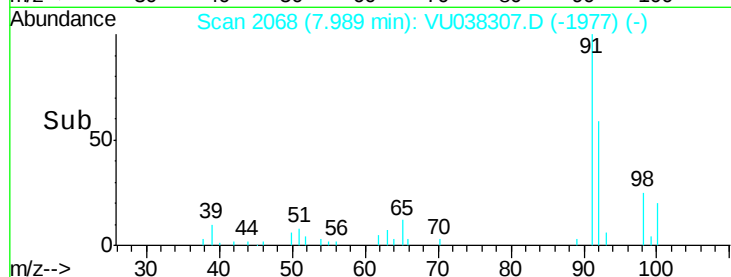
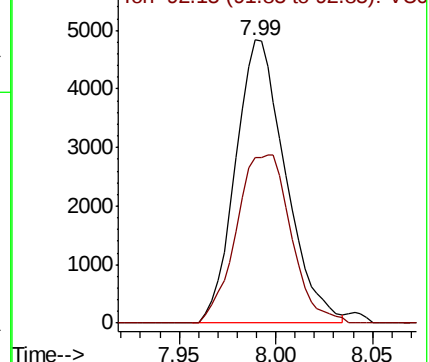
Ion Ratio Lower Upper

91 100

92 58.7 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0



#48

2-Hexanone

Concen: 1.522 ug/L

RT: 8.71 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

Tgt Ion: 43 Resp: 20822

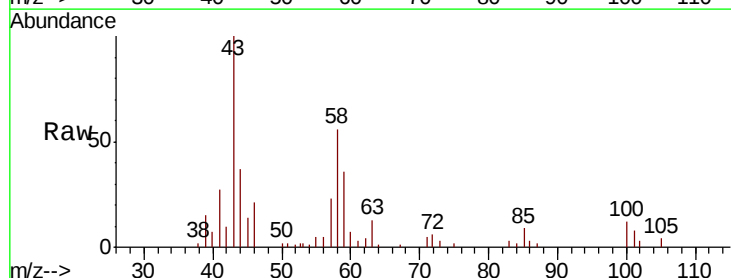
Ion Ratio Lower Upper

43 100

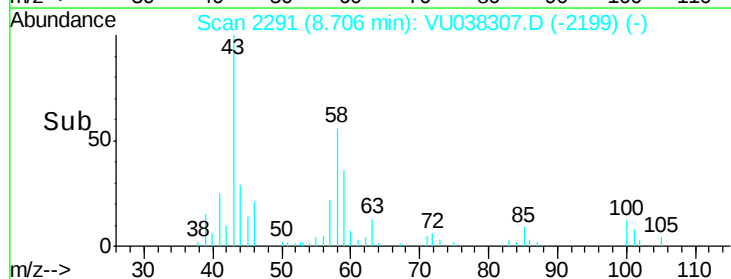
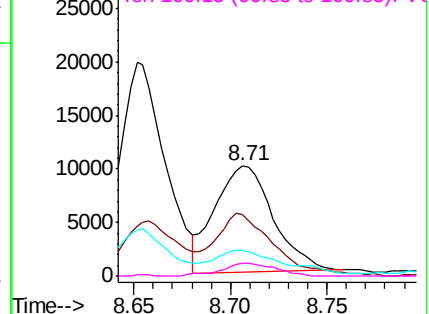
58 58.6 45.2 67.8

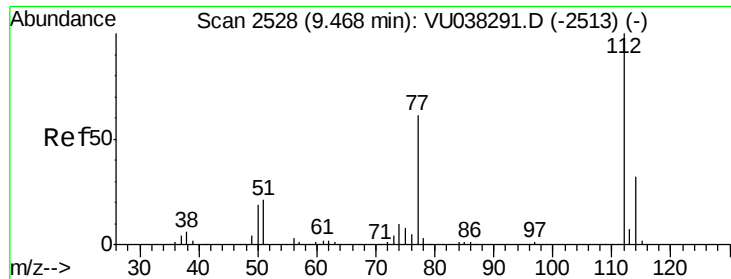
57 26.7 15.5 23.3#

100 10.9 9.5 14.3



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

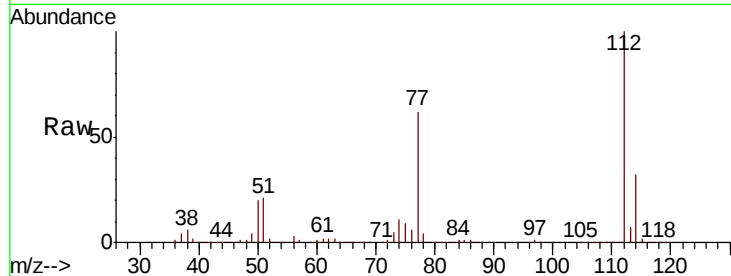




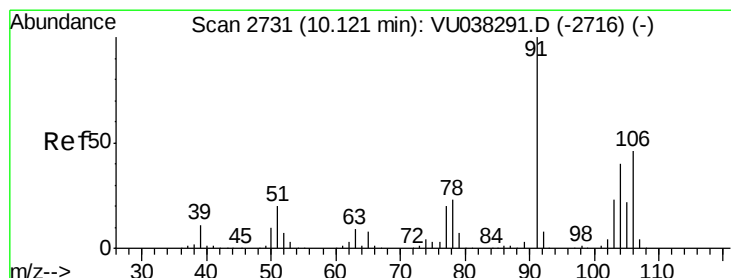
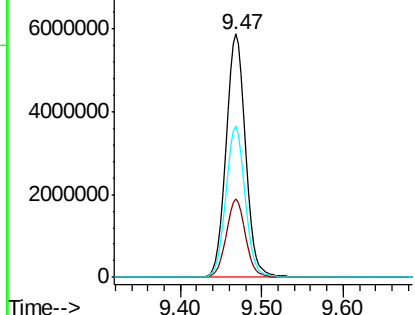
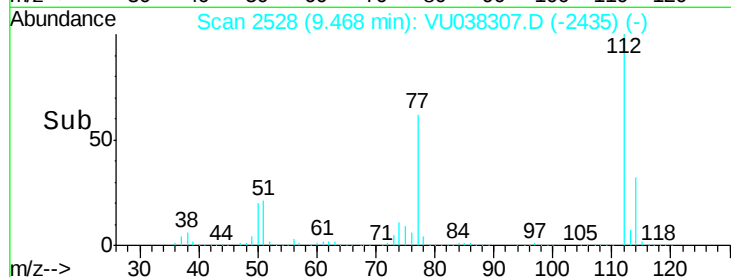
#51
Chlorobenzene
Concen: 153.411 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU038307.D
Acq: 26 May 2020 19:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:112 Resp: 9972173
Ion Ratio Lower Upper
112 100
114 32.2 22.5 41.7
77 62.1 49.9 74.9

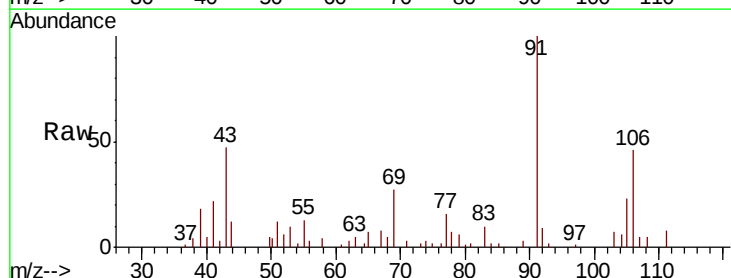


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

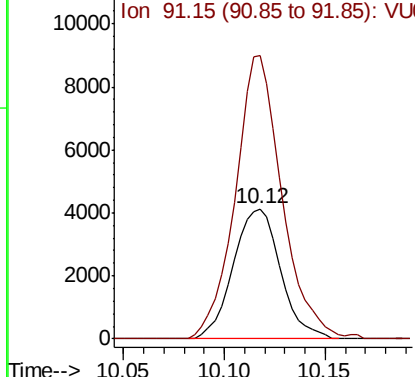
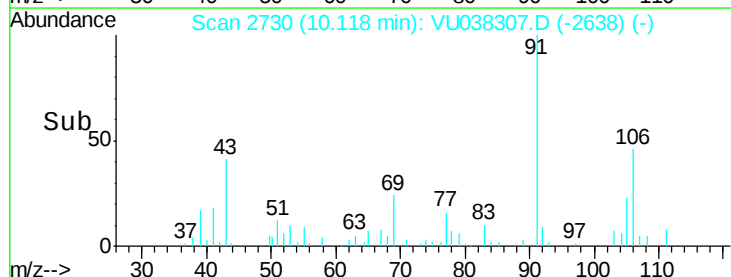


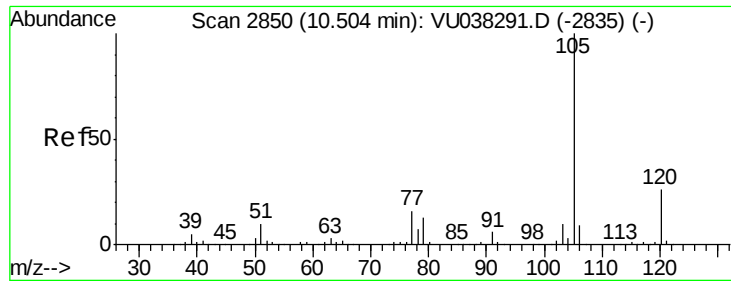
#54
o-Xylene
Concen: 0.161 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU038307.D
Acq: 26 May 2020 19:19

Tgt Ion:106 Resp: 6775
Ion Ratio Lower Upper
106 100
91 217.5 148.5 275.9



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





#56

Isopropylbenzene

Concen: 1.792 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

Instrument :

MSVOA_U

ClientSampleId :

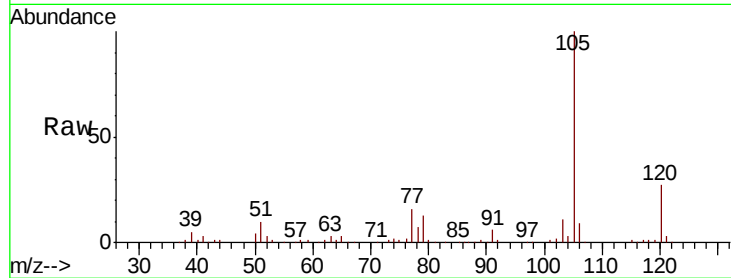
Tot Ion:105 Resp: 193660

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

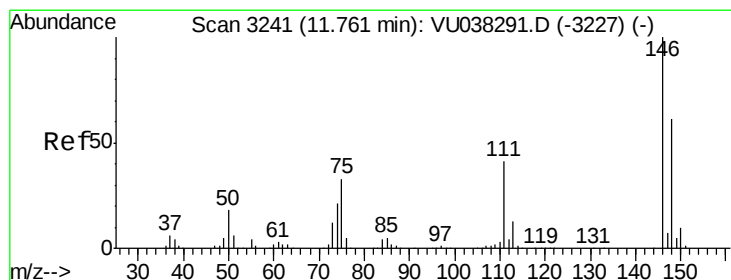
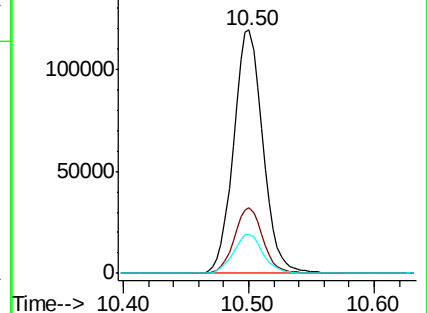
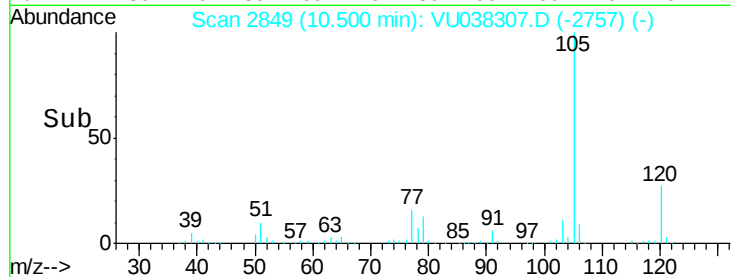
77 16.2 13.0 19.4



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



#62

1,3-Dichlorobenzene

Concen: 0.296 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

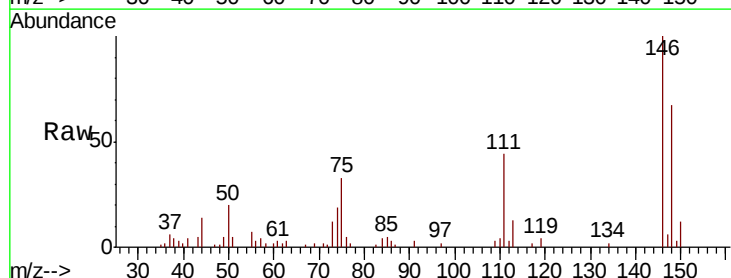
Tgt Ion:146 Resp: 14910

Ion Ratio Lower Upper

146 100

111 43.6 28.6 53.2

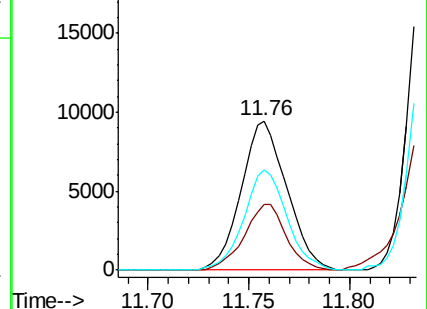
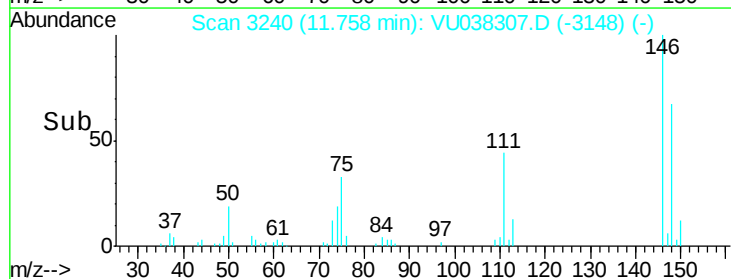
148 67.1 45.2 84.0

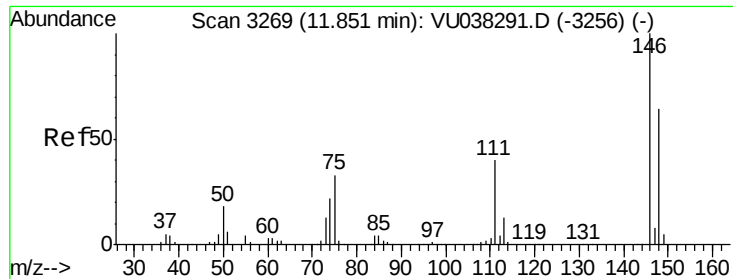


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 1.863 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038307.D

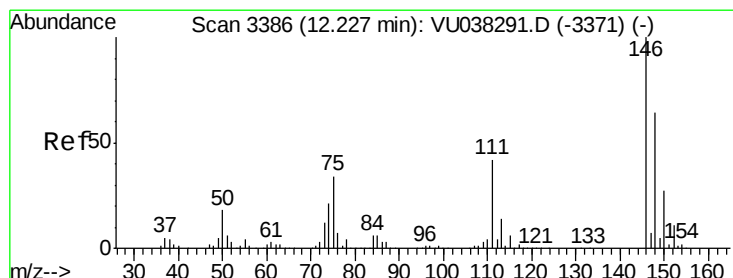
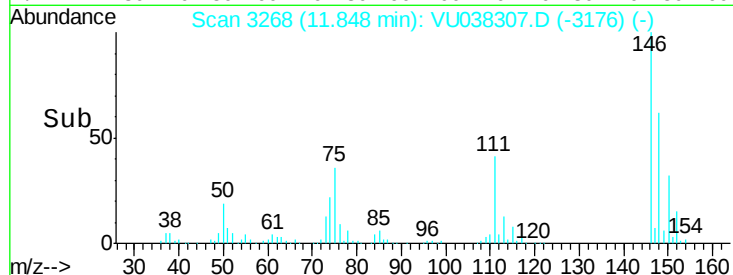
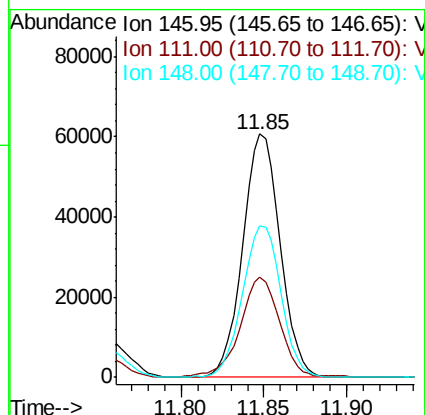
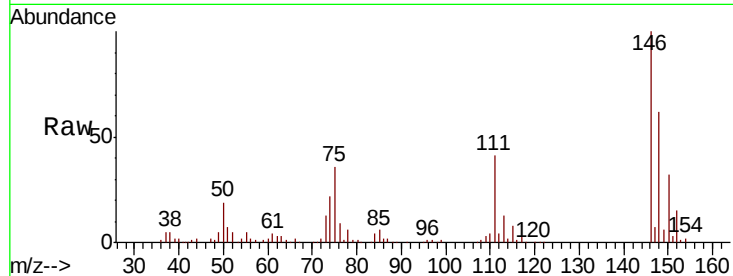
Acq: 26 May 2020 19:19

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146	Resp:	95210
Ion	Ratio	Lower Upper
146	100	
111	41.2	27.2 50.6
148	62.1	43.8 81.3



#65

1,2-Dichlorobenzene

Concen: 0.668 ug/L

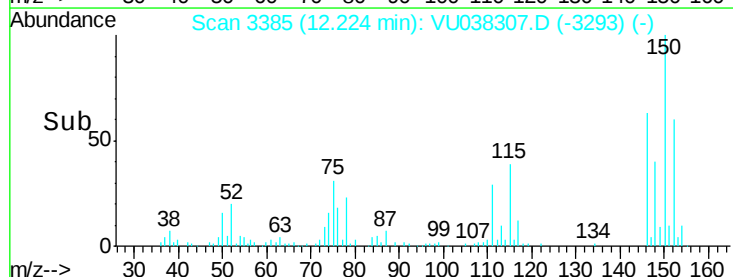
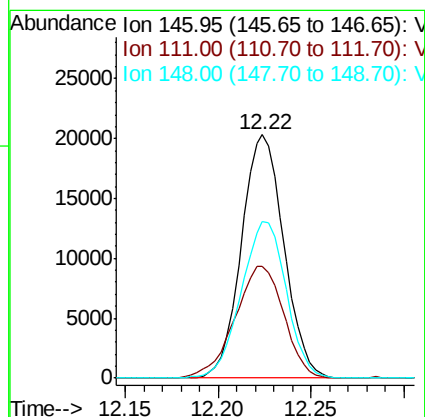
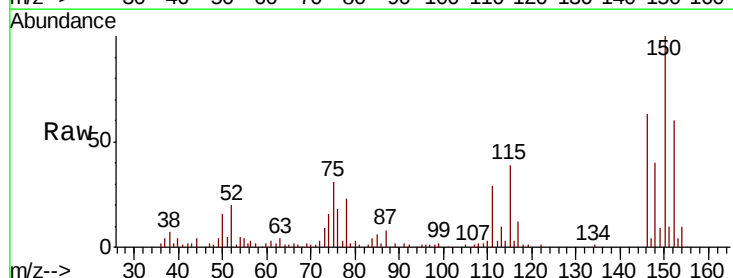
RT: 12.22 min Scan# 3385

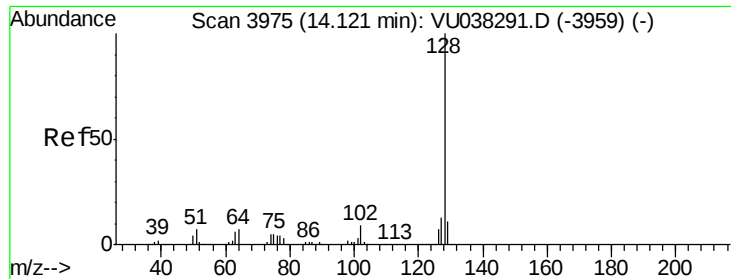
Delta R.T. -0.00 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

Tgt Ion:146	Resp:	32423
Ion	Ratio	Lower Upper
146	100	
111	45.9	35.3 52.9
148	64.4	51.0 76.4





#69

Naphthalene

Concen: 0.112 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU038307.D

Acq: 26 May 2020 19:19

Instrument :

MSVOA_U

ClientSampleId :

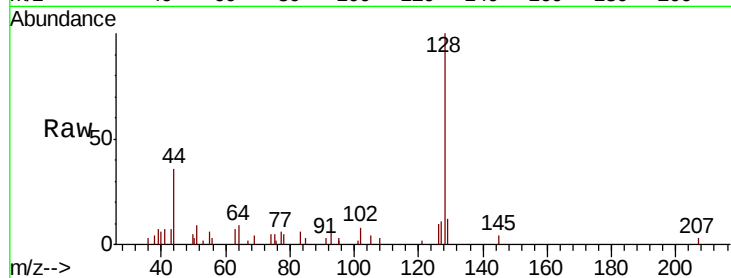
Tot Ion:128 Resp: 7858

Ion Ratio Lower Upper

128 100

129 9.0 8.7 13.1

127 13.6 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

