

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081420\
 Data File : VU039874.D
 Acq On : 14 Aug 2020 21:44
 Operator : SY/MD
 Sample : L3517-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 17 07:41:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR080320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Aug 17 05:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	68358	5.00	ug/L	0.03
28) Chlorobenzene-d5	9.43	117	69790	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	36792	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	17577	4.76	ug/L	0.01
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.95	69	18485	4.63	ug/L	0.03
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.60	63	35232	4.74	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.80%
20) 2-Butanone-d5	4.81	46	43933	27.06	ug/L	0.15
Spiked Amount	50.000	Range	40 - 130	Recovery	=	54.12%
24) Chloroform-d	5.13	84	42505	4.61	ug/L	0.05
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
26) 1,2-Dichloroethane-d4	5.76	65	27002	4.92	ug/L	0.04
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
32) Benzene-d6	5.77	84	74886	4.51	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
36) 1,2-Dichloropropane-d6	6.73	67	28406	5.00	ug/L	0.03
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.00%
41) Toluene-d8	7.92	98	64571	4.38	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.20	79	11032	5.06	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.20%
46) 2-Hexanone-d5	8.66	63	66359	56.25	ug/L	0.03
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.50%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	28050	5.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	32236	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	2754	0.496	ug/L #	55
12) 1,1-Dichloroethene	2.59	96	321	0.079	ug/L #	1
13) Acetone	2.65	43	802	0.838	ug/L	59
14) Carbon disulfide	2.82	76	2114	0.166	ug/L #	22
17) Methyl tert-butyl Ether	3.44	73	50354	4.651	ug/L #	95
18) trans-1,2-Dichloroethene	3.39	96	1755	0.387	ug/L	98
22) cis-1,2-Dichloroethene	4.73	96	6479	1.312	ug/L	94
33) Benzene	5.82	78	20946	1.102	ug/L	100
34) Trichloroethene	6.58	95	12310	2.493	ug/L	90
37) 1,2-Dichloropropane	6.73	63	3329	0.659	ug/L #	86
39) cis-1,3-Dichloropropene	7.60	75	918	0.133	ug/L #	41
40) 4-Methyl-2-pentanone	7.83	43	11426	3.027	ug/L	97
42) Toluene	7.99	91	23240	1.163	ug/L	99
44) trans-1,3-Dichloropropene	8.20	75	749	0.121	ug/L	84
47) Tetrachloroethene	8.56	164	4994	1.226	ug/L	87
48) 2-Hexanone	8.71	43	2865	1.051	ug/L #	92
49) Dibromochloromethane	8.56	129	4939	1.059	ug/L #	12

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QLast Update : Mon Aug 17 05:23:17 2020
Response via : Initial Calibration

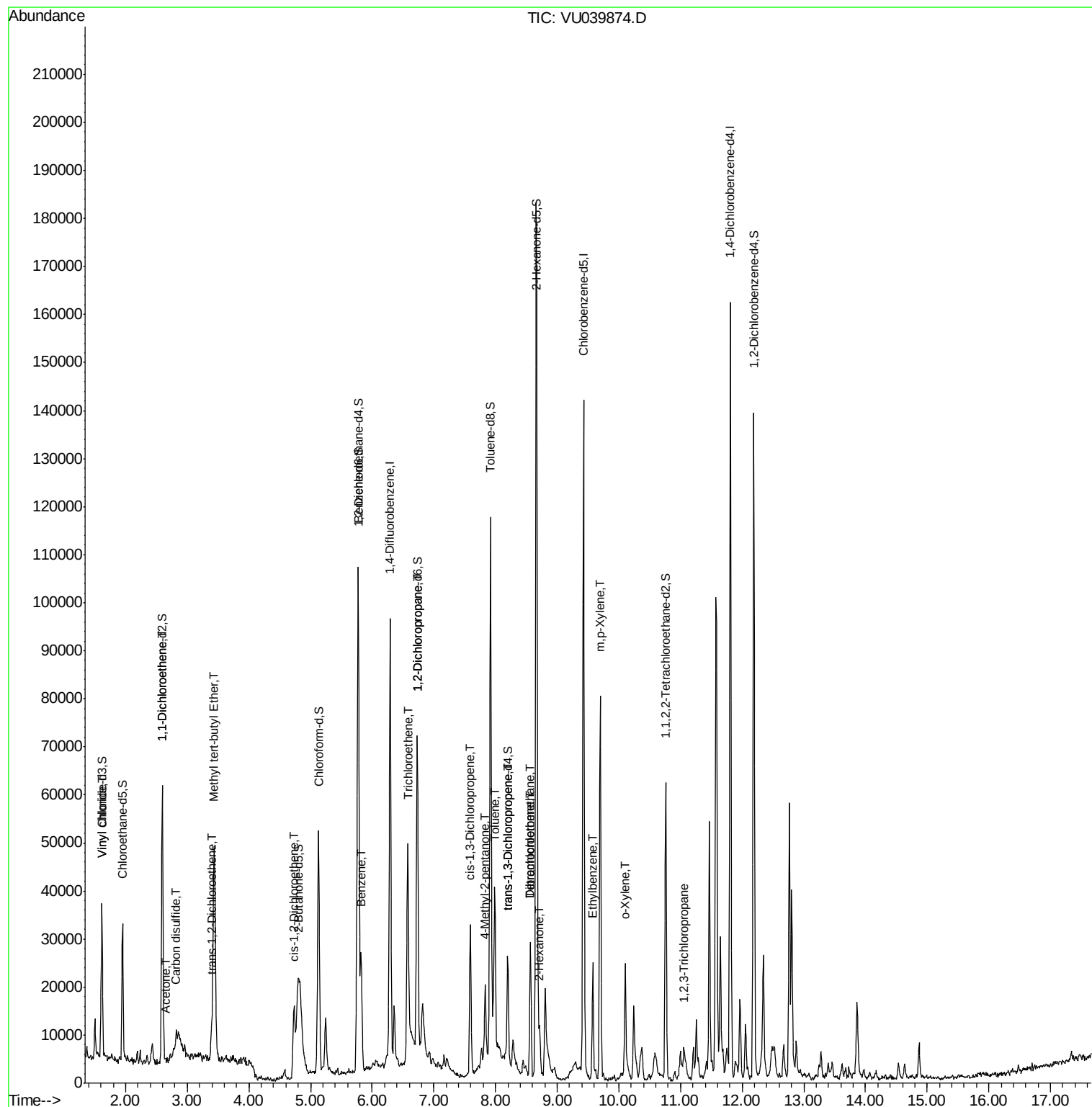
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.58	91	15387	0.688	ug/L	99
53) m,p-Xylene	9.70	106	20719	2.433	ug/L	96
54) o-Xylene	10.10	106	6040	0.724	ug/L	98
59) 1,2,3-Trichloropropane	11.06	75	1005	0.276	ug/L	94

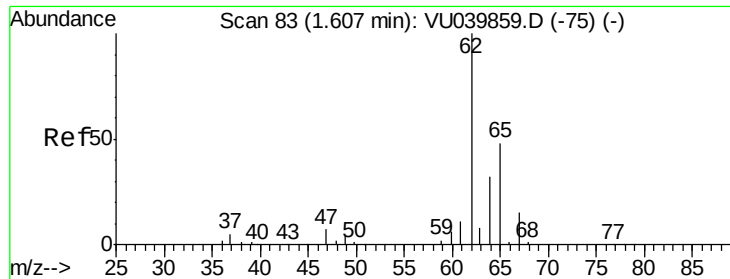
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.496 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.02 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

Instrument :

MSVOA_U

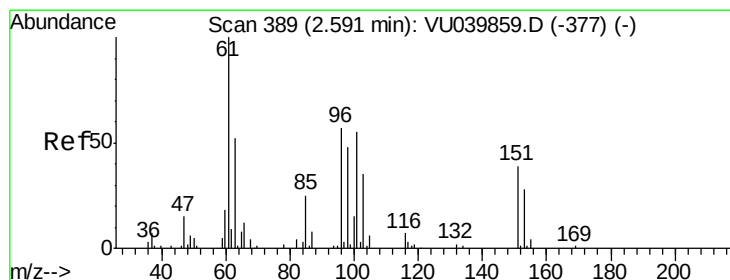
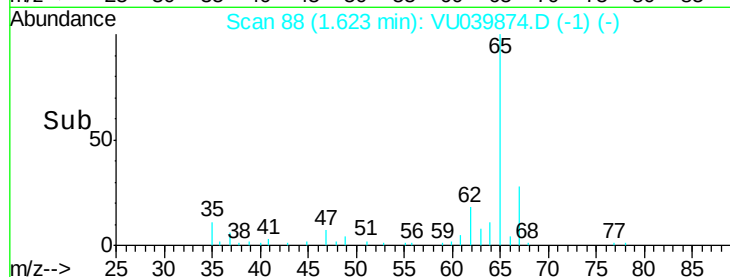
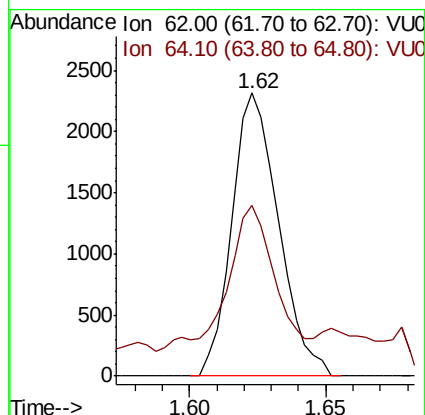
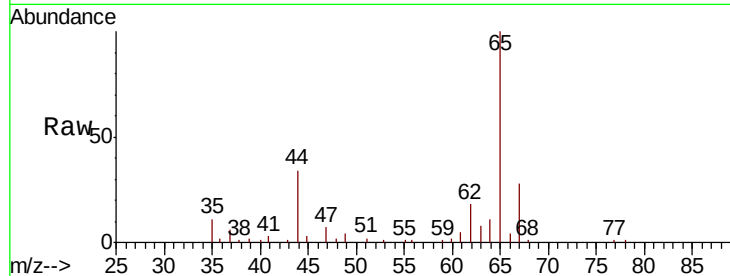
ClientSampled :

Tot Ion: 62 Resp: 2754

Ion Ratio Lower Upper

62 100

64 60.3 24.1 44.7#



#12

1,1-Dichloroethene

Concen: 0.079 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

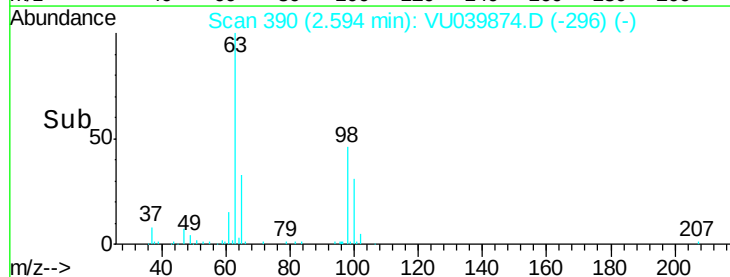
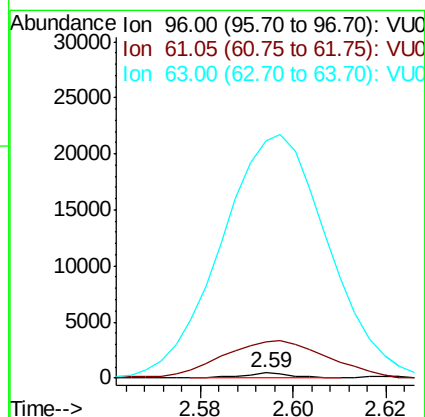
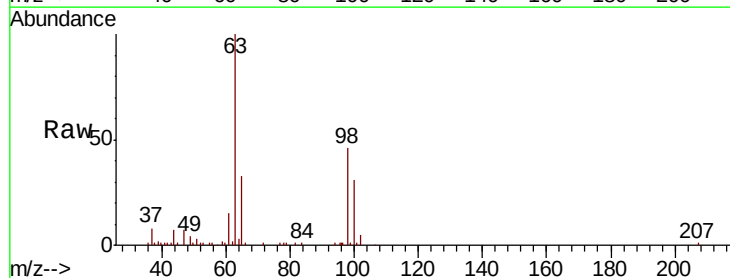
Tgt Ion: 96 Resp: 321

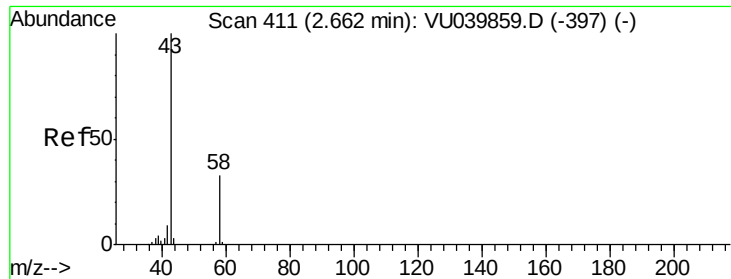
Ion Ratio Lower Upper

96 100

61 661.7 121.7 225.9#

63 4399.2 82.1 152.5#





#13

Acetone

Concen: 0.838 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

Instrument :

MSVOA_U

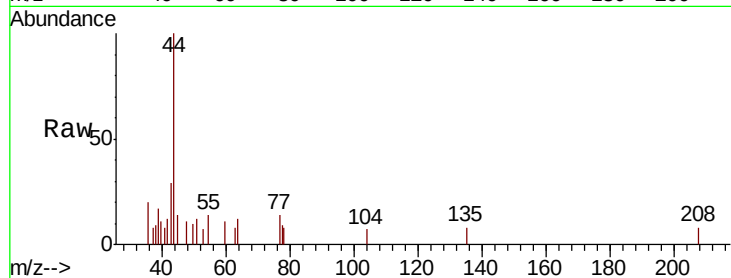
ClientSampleId :

Tot Ion: 43 Resp: 802

Ion Ratio Lower Upper

43 100

58 8.4 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU039859.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU039859.D (-397) (-)

2.65

400

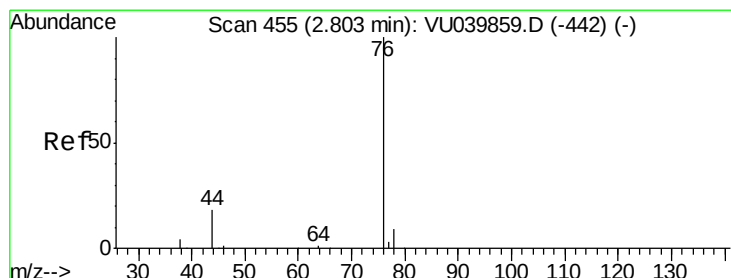
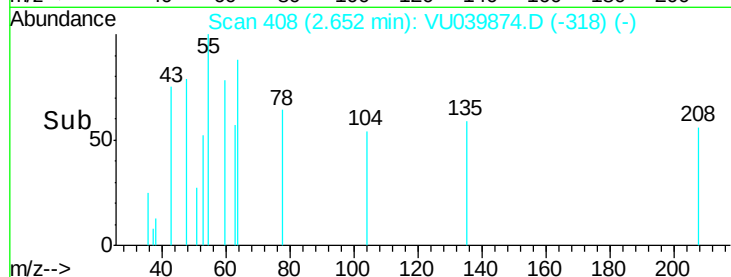
300

200

100

0

Time--> 2.62 2.64 2.66 2.68 2.70



#14

Carbon disulfide

Concen: 0.166 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.02 min

Lab File: VU039874.D

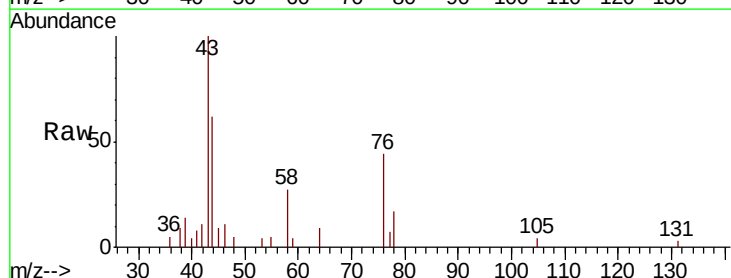
Acq: 14 Aug 2020 21:44

Tgt Ion: 76 Resp: 2114

Ion Ratio Lower Upper

76 100

78 38.5 7.8 11.6#



Abundance Ion 76.05 (75.75 to 76.75): VU039859.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU039859.D (-442) (-)

2.82

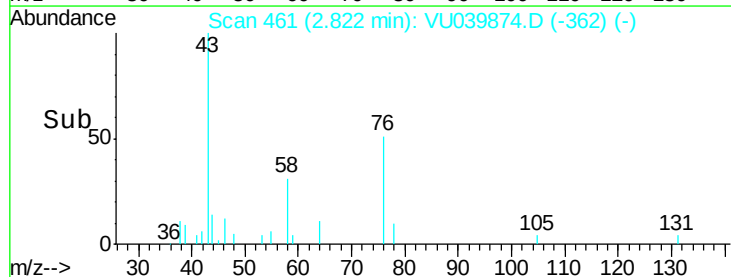
1500

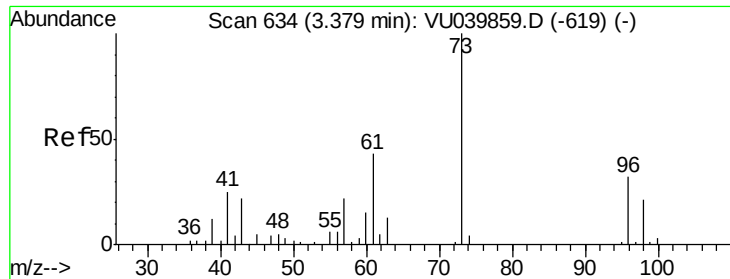
1000

500

0

Time--> 2.80 2.85

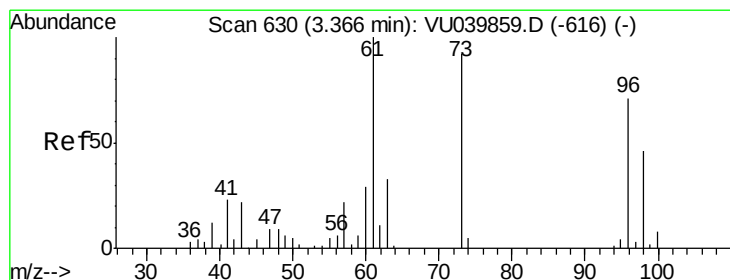
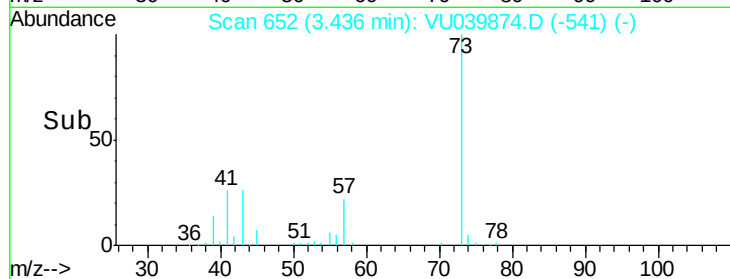
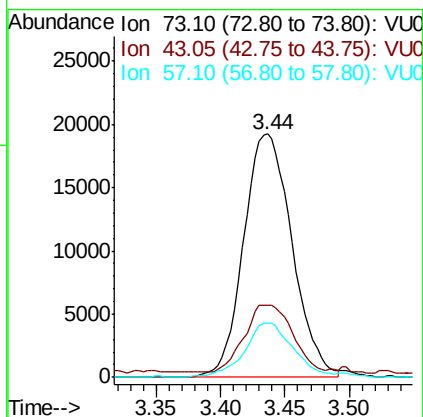
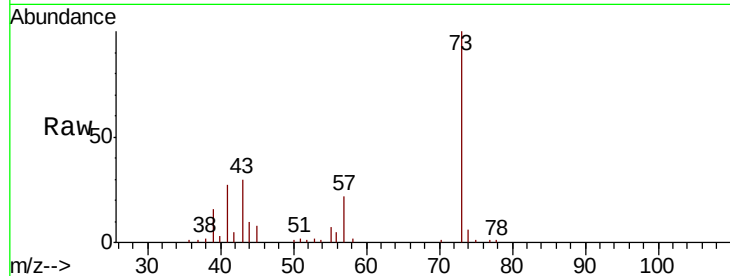




#17
Methyl tert-butyl Ether
Concen: 4.651 ug/L
RT: 3.44 min Scan# 652
Delta R.T. 0.06 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

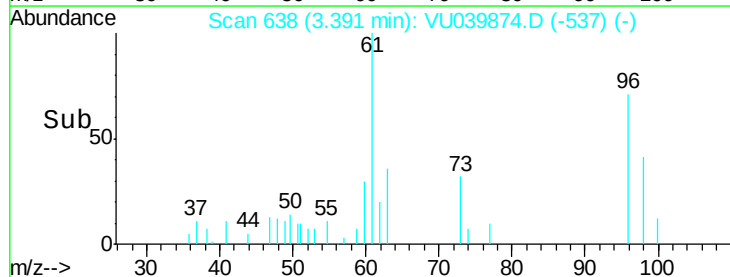
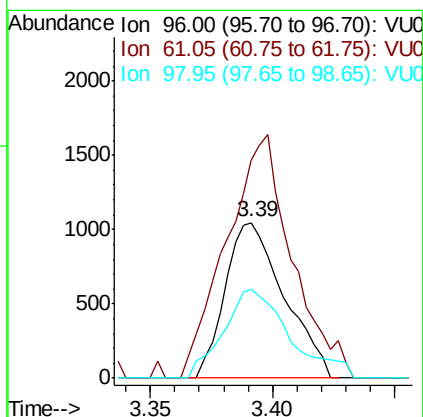
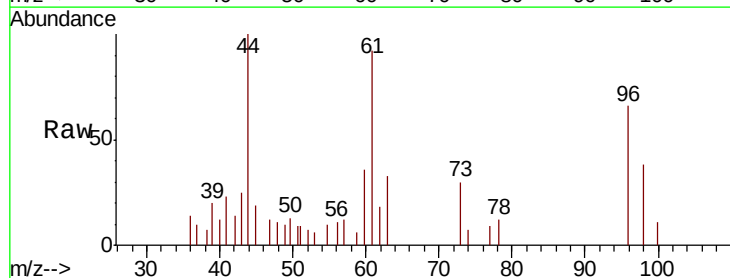
Instrument :
MSVOA_U
ClientSampled :

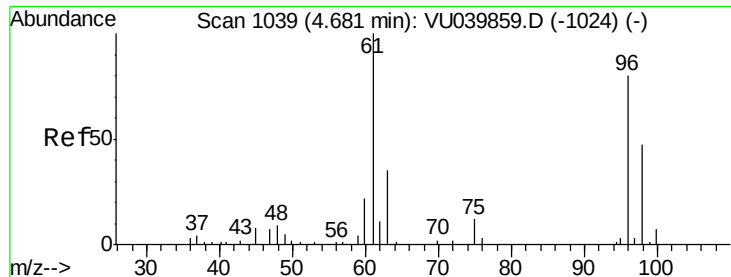
Tot Ion: 73 Resp: 50354
Ion Ratio Lower Upper
73 100
43 27.7 18.2 27.4#
57 22.4 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 0.387 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.03 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

Tgt Ion: 96 Resp: 1755
Ion Ratio Lower Upper
96 100
61 140.2 96.5 179.1
98 57.3 40.9 76.0





#22

cis-1,2-Dichloroethene

Concen: 1.312 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. 0.05 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

Instrument :

MSVOA_U

ClientSampled :

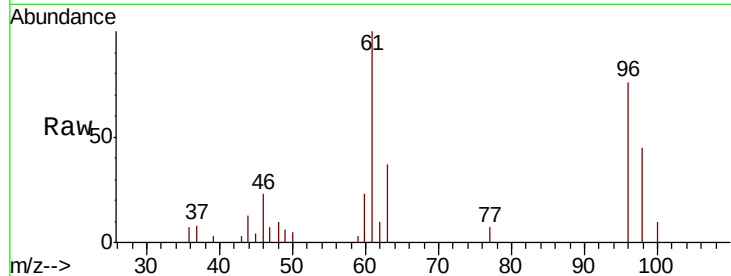
Tot Ion: 96 Resp: 6479

Ion Ratio Lower Upper

96 100

61 131.1 87.4 162.2

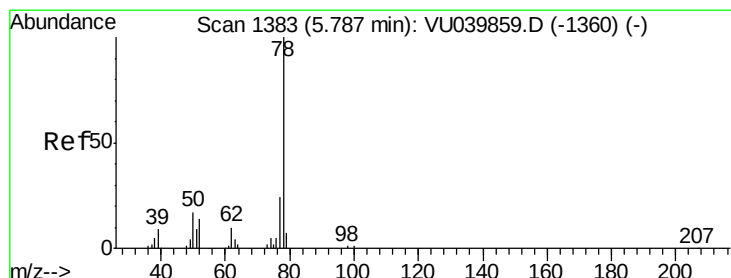
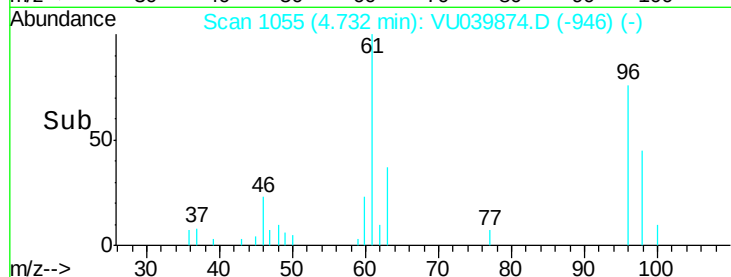
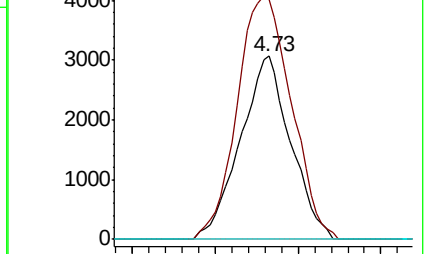
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039874.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU039874.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU039874.D (-946) (-)



#33

Benzene

Concen: 1.102 ug/L

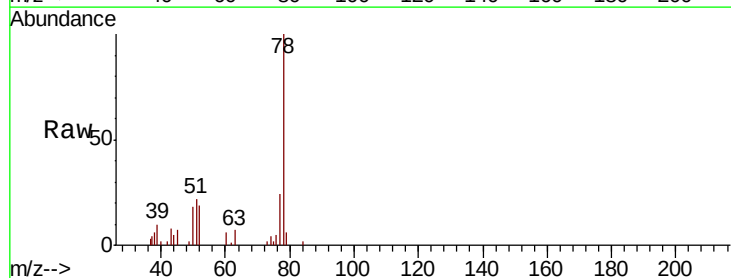
RT: 5.82 min Scan# 1394

Delta R.T. 0.04 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

Tgt Ion: 78 Resp: 20946



Abundance Ion 78.10 (77.80 to 78.80): VU039874.D (-1290) (-)

Ion 39.05 (38.75 to 39.75): VU039874.D (-1290) (-)

Ion 51.05 (50.75 to 51.75): VU039874.D (-1290) (-)

Ion 63.05 (62.75 to 63.75): VU039874.D (-1290) (-)

Ion 78.10 (77.80 to 78.80): VU039874.D (-1290) (-)

Ion 98.05 (97.75 to 98.75): VU039874.D (-1290) (-)

Ion 107.05 (106.75 to 107.75): VU039874.D (-1290) (-)

Ion 129.05 (128.75 to 129.75): VU039874.D (-1290) (-)

Ion 151.05 (150.75 to 151.75): VU039874.D (-1290) (-)

Ion 169.05 (168.75 to 169.75): VU039874.D (-1290) (-)

Ion 181.05 (180.75 to 181.75): VU039874.D (-1290) (-)

Ion 207.05 (206.75 to 207.75): VU039874.D (-1290) (-)

Ion 228.05 (227.75 to 228.75): VU039874.D (-1290) (-)

Ion 252.05 (251.75 to 252.75): VU039874.D (-1290) (-)

Ion 276.05 (275.75 to 276.75): VU039874.D (-1290) (-)

Ion 300.05 (299.75 to 300.75): VU039874.D (-1290) (-)

Ion 324.05 (323.75 to 324.75): VU039874.D (-1290) (-)

Ion 348.05 (347.75 to 348.75): VU039874.D (-1290) (-)

Ion 372.05 (371.75 to 372.75): VU039874.D (-1290) (-)

Ion 396.05 (395.75 to 396.75): VU039874.D (-1290) (-)

Ion 420.05 (419.75 to 420.75): VU039874.D (-1290) (-)

Ion 444.05 (443.75 to 444.75): VU039874.D (-1290) (-)

Ion 468.05 (467.75 to 468.75): VU039874.D (-1290) (-)

Ion 492.05 (491.75 to 492.75): VU039874.D (-1290) (-)

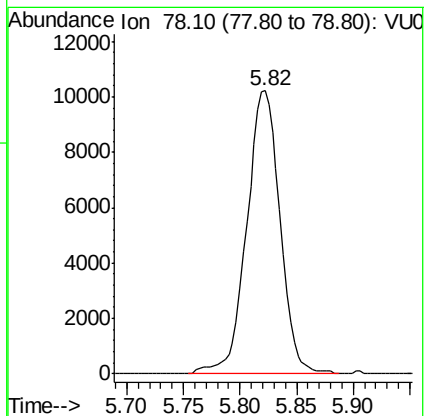
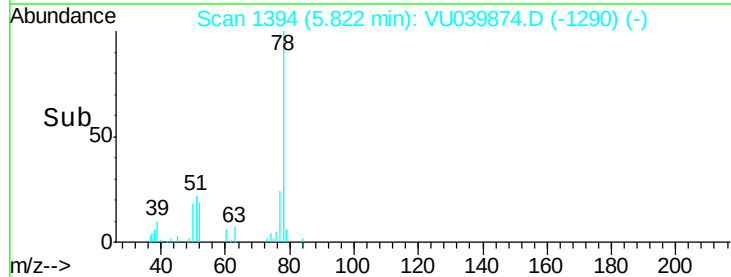
Ion 516.05 (515.75 to 516.75): VU039874.D (-1290) (-)

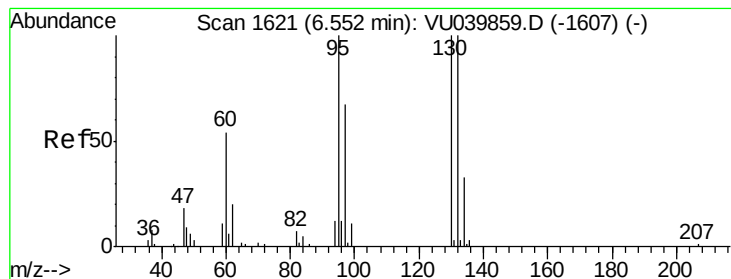
Ion 540.05 (539.75 to 540.75): VU039874.D (-1290) (-)

Ion 564.05 (563.75 to 564.75): VU039874.D (-1290) (-)

Ion 588.05 (587.75 to 588.75): VU039874.D (-1290) (-)

Ion 612.05 (611.75 to 612.75): VU039874.D (-1290) (-)





#34

Trichloroethene

Concen: 2.493 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.03 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 12310

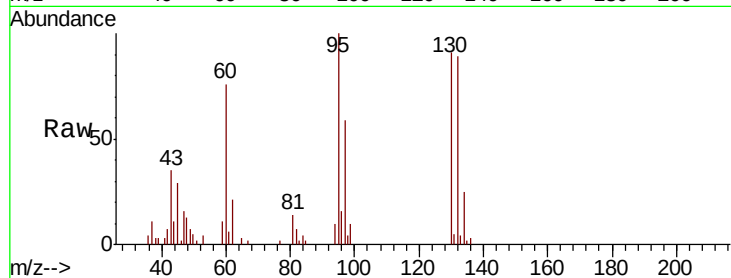
Ion Ratio Lower Upper

95 100

97 59.0 44.0 81.8

132 88.8 71.7 133.3

130 90.8 71.1 132.1

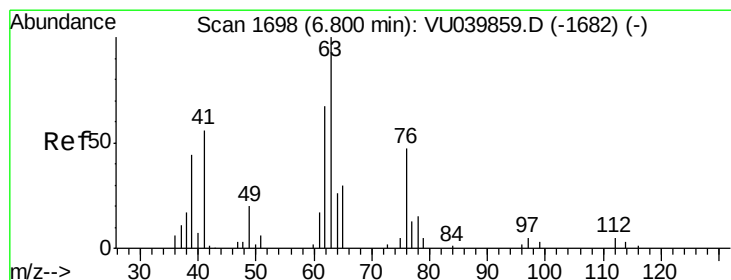
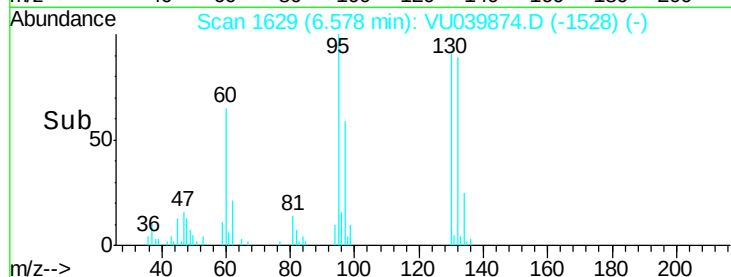
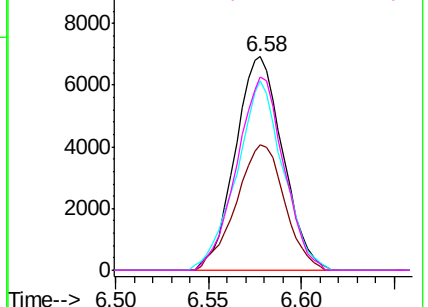


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#37

1,2-Dichloropropane

Concen: 0.659 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU039874.D

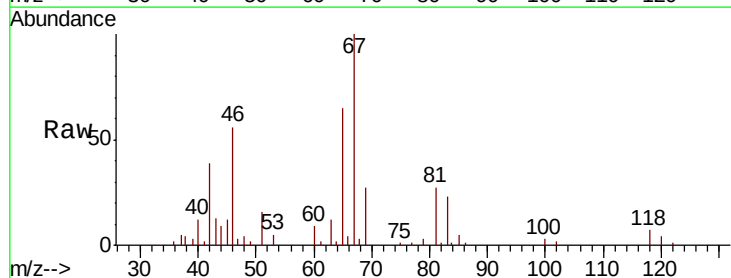
Acq: 14 Aug 2020 21:44

Tgt Ion: 63 Resp: 3329

Ion Ratio Lower Upper

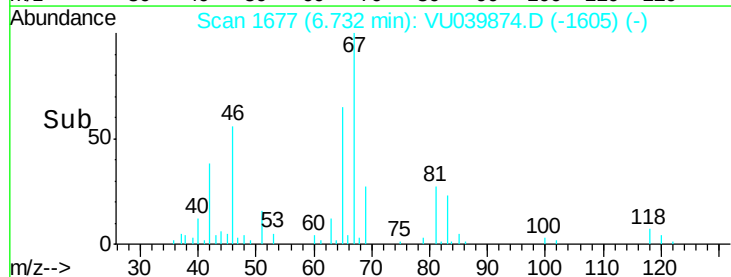
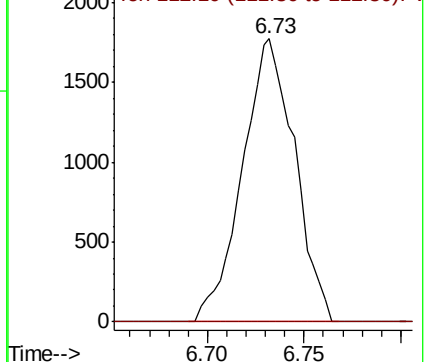
63 100

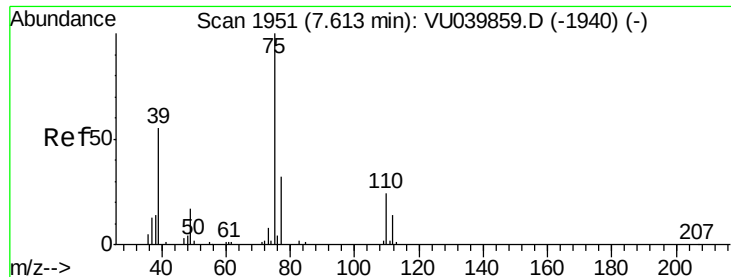
112 0.0 3.8 5.6#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

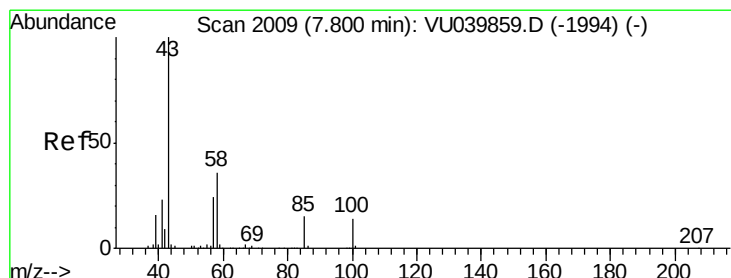
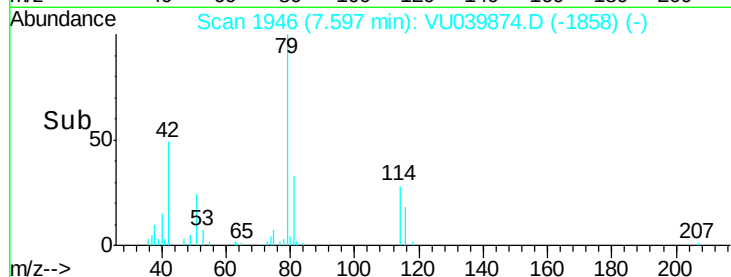
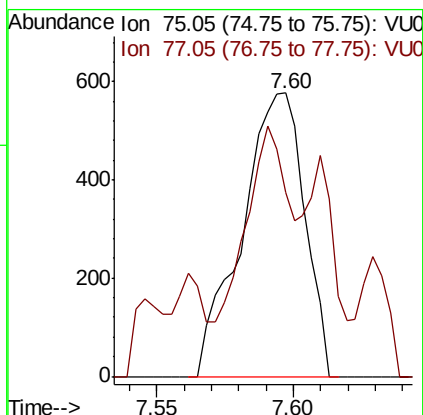
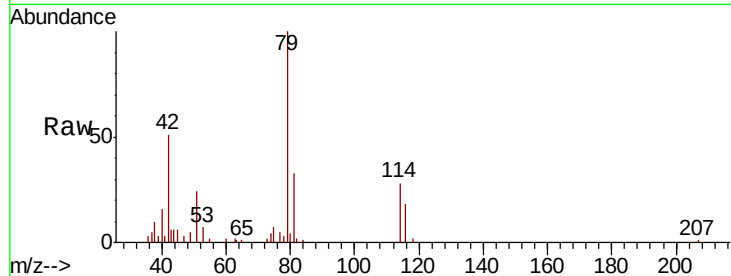




#39
 cis-1,3-Dichloropropene
 Concen: 0.133 ug/L
 RT: 7.60 min Scan# 1946
 Delta R.T. -0.02 min
 Lab File: VU039874.D
 Acq: 14 Aug 2020 21:44

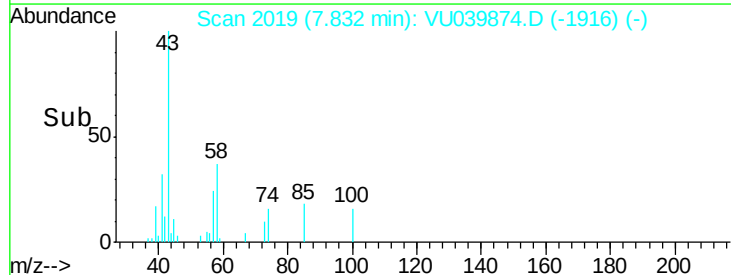
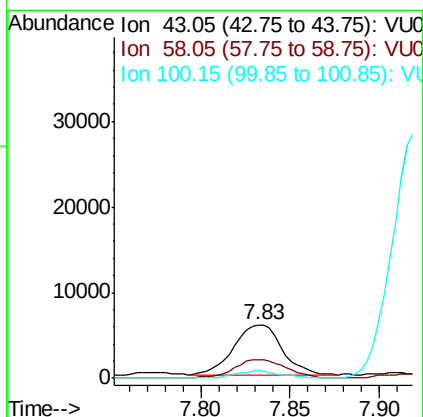
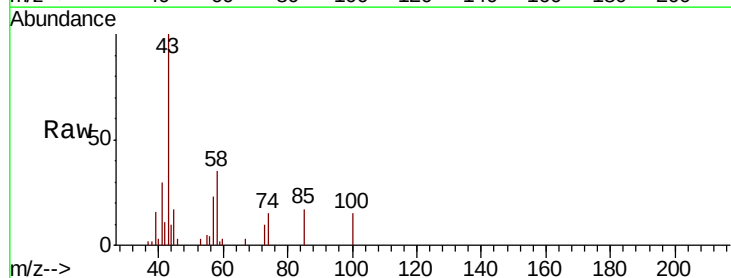
Instrument :
 MSVOA_U
 ClientSampled :

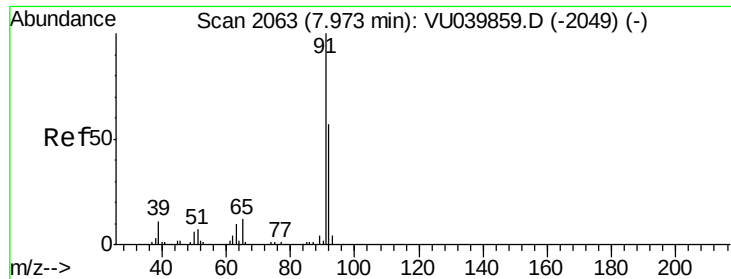
Tot Ion: 75 Resp: 918
 Ion Ratio Lower Upper
 75 100
 77 64.8 22.4 41.6#



#40
 4-Methyl-2-pentanone
 Concen: 3.027 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.03 min
 Lab File: VU039874.D
 Acq: 14 Aug 2020 21:44

Tgt Ion: 43 Resp: 11426
 Ion Ratio Lower Upper
 43 100
 58 38.1 29.4 44.2
 100 12.6 11.7 17.5





#42

Toluene

Concen: 1.163 ug/L

RT: 7.99 min Scan# 2068

Delta R.T. 0.02 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

Instrument :

MSVOA_U

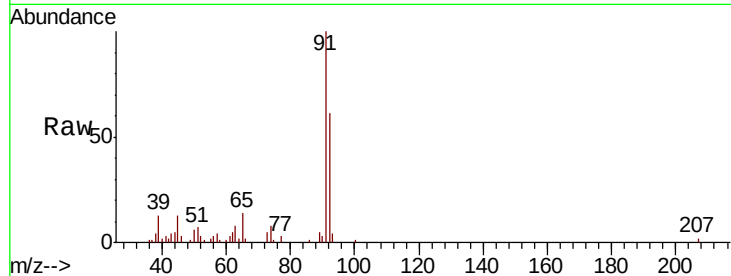
ClientSampled :

Tot Ion: 91 Resp: 23240

Ion Ratio Lower Upper

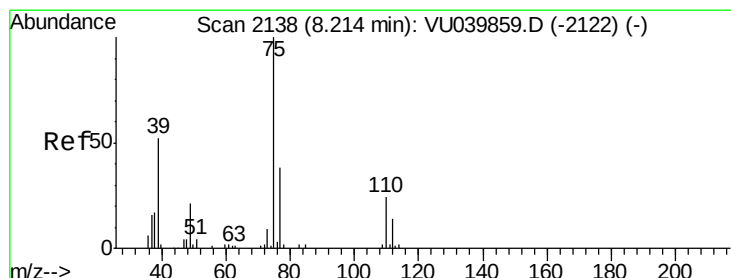
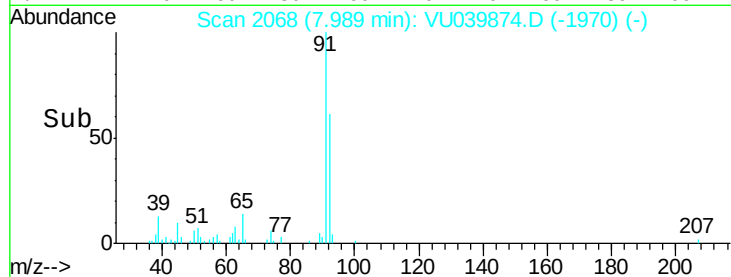
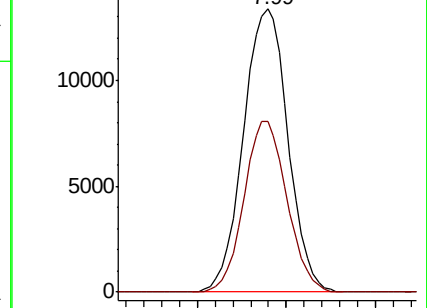
91 100

92 60.5 41.6 77.3



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: 0.121 ug/L

RT: 8.20 min Scan# 2134

Delta R.T. -0.01 min

Lab File: VU039874.D

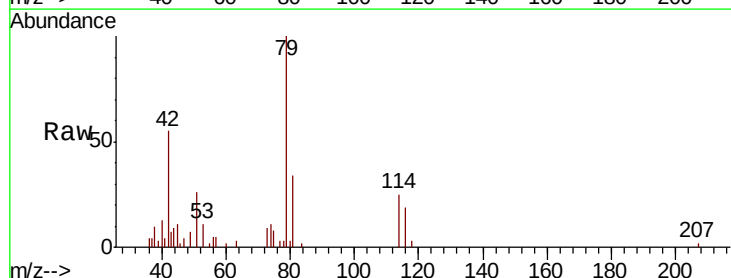
Acq: 14 Aug 2020 21:44

Tgt Ion: 75 Resp: 749

Ion Ratio Lower Upper

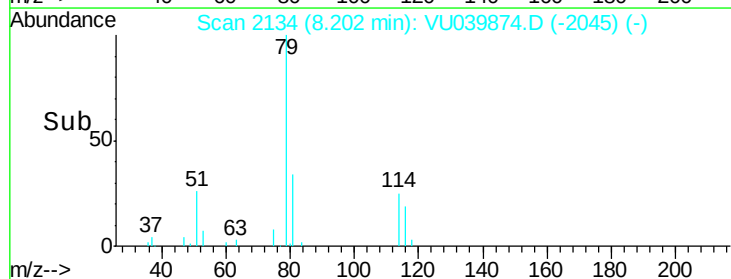
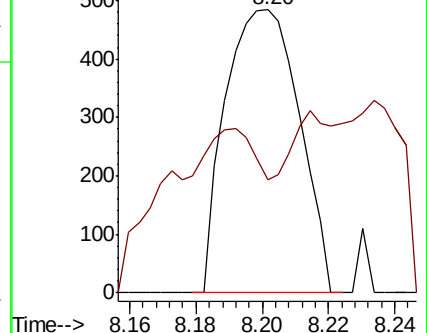
75 100

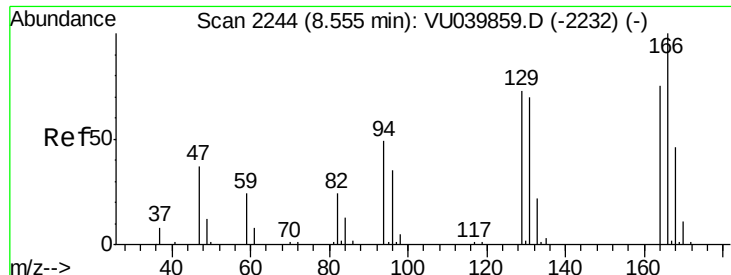
77 39.9 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

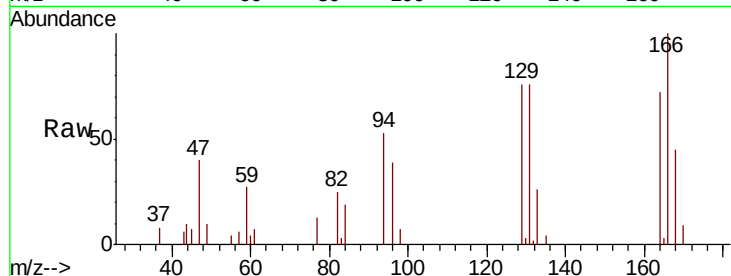




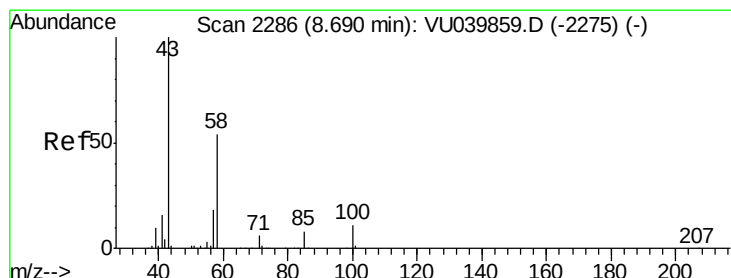
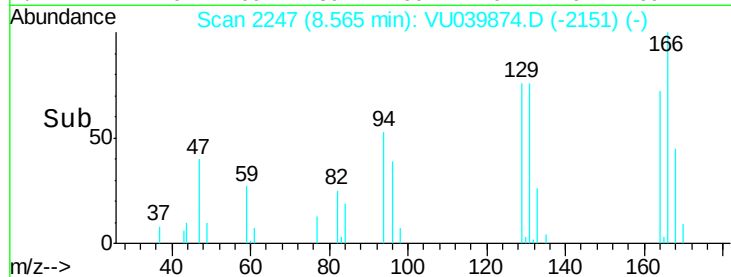
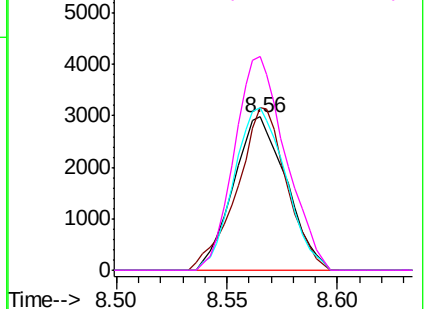
#47
Tetrachloroethene
Concen: 1.226 ug/L
RT: 8.56 min Scan# 2247
Delta R.T. 0.01 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 4994
Ion Ratio Lower Upper
164 100
129 106.5 65.9 122.5
131 106.3 68.1 126.5
166 139.5 84.5 156.9

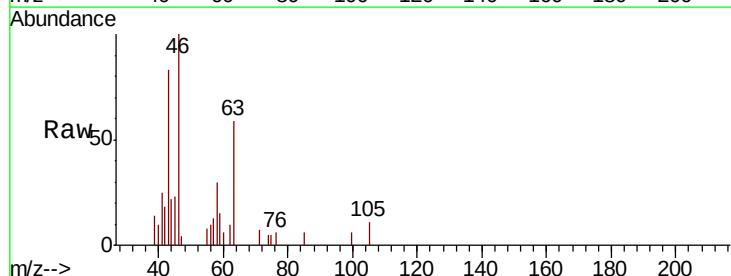


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

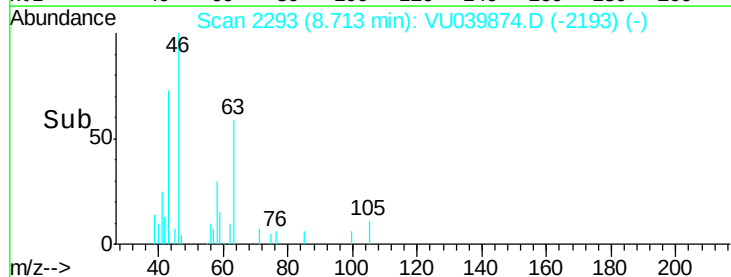
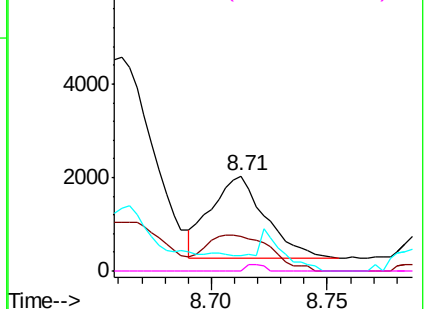


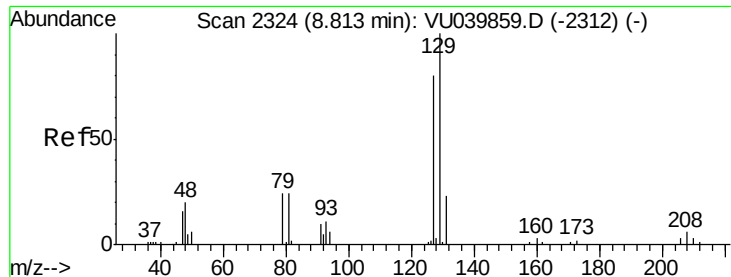
#48
2-Hexanone
Concen: 1.051 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.02 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

Tgt Ion: 43 Resp: 2865
Ion Ratio Lower Upper
43 100
58 52.7 41.8 62.8
57 25.5 14.2 21.4#
100 2.7 9.4 14.2#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

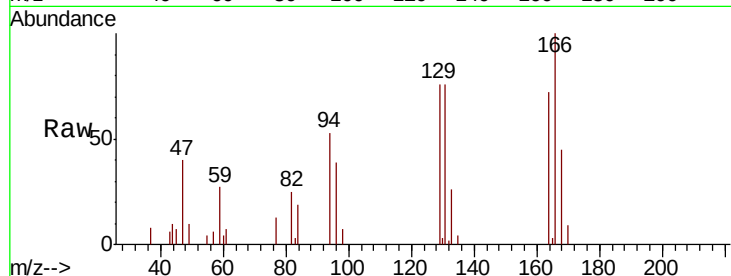




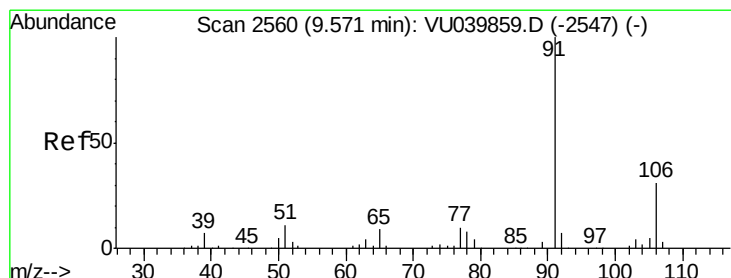
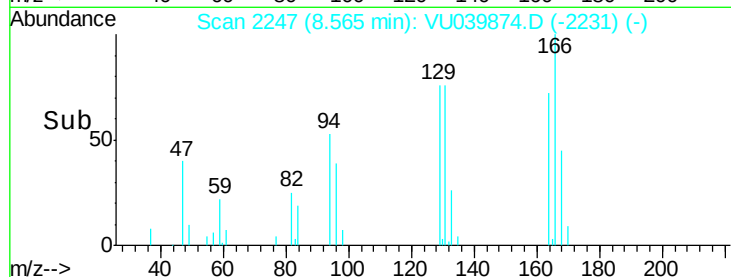
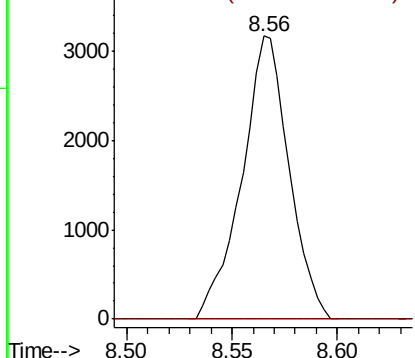
#49
Dibromochloromethane
Concen: 1.059 ug/L
RT: 8.56 min Scan# 2247
Delta R.T. -0.25 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:129 Resp: 4939
Ion Ratio Lower Upper
129 100
127 0.0 53.0 98.4#

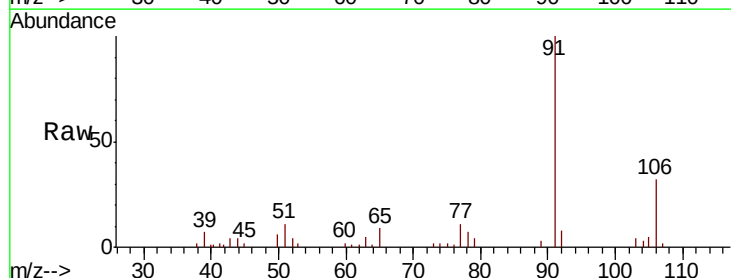


Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

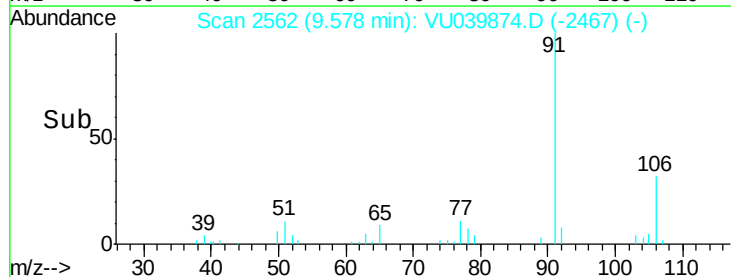
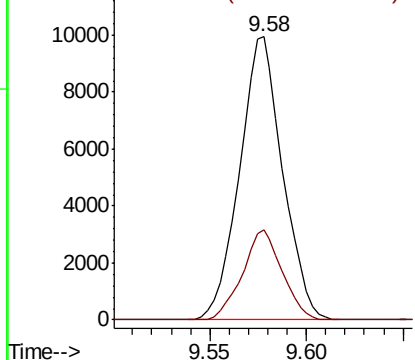


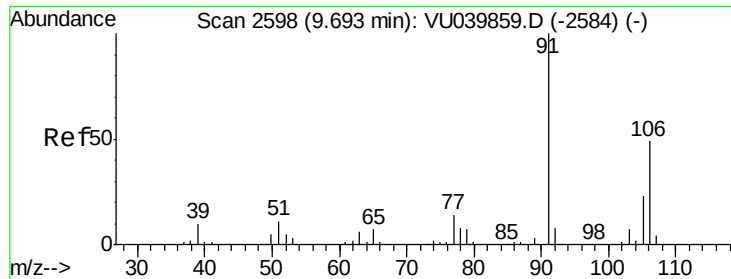
#52
Ethylbenzene
Concen: 0.688 ug/L
RT: 9.58 min Scan# 2562
Delta R.T. 0.01 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

Tgt Ion: 91 Resp: 15387
Ion Ratio Lower Upper
91 100
106 31.9 22.8 42.4



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

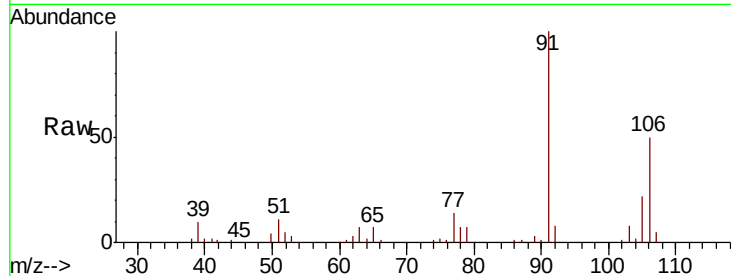




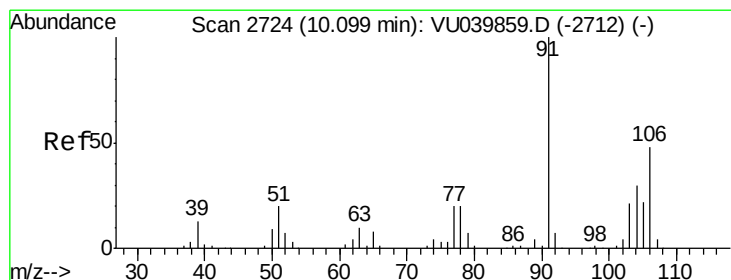
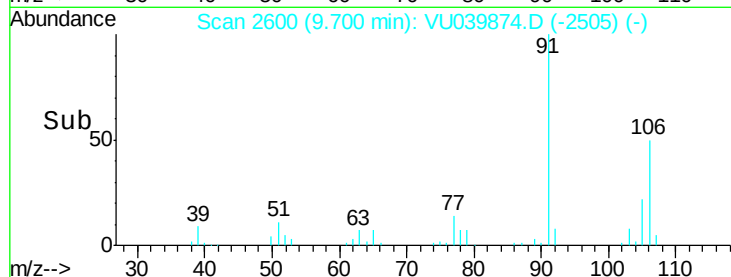
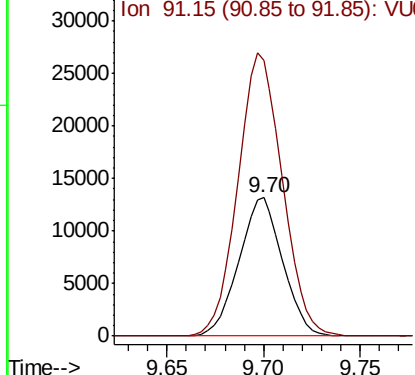
#53
m,p-Xylene
Concen: 2.433 ug/L
RT: 9.70 min Scan# 2600
Delta R.T. 0.01 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 20719
Ion Ratio Lower Upper
106 100
91 199.6 135.5 251.7

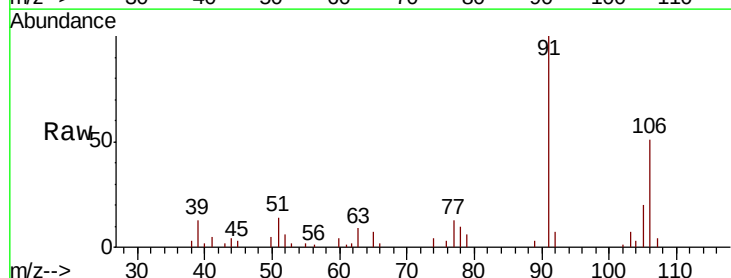


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

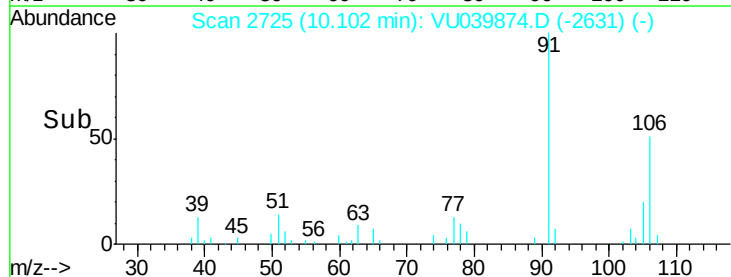
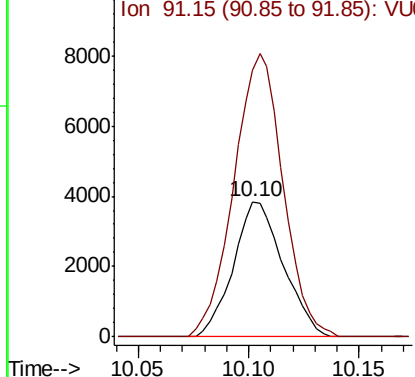


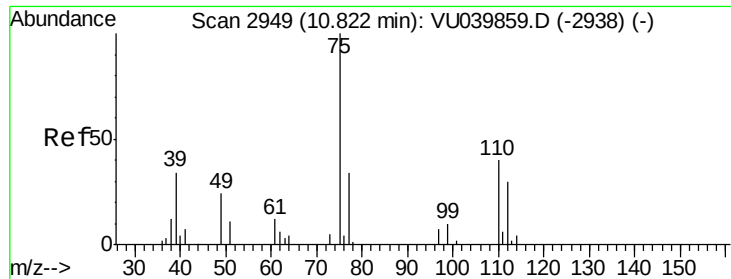
#54
o-Xylene
Concen: 0.724 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU039874.D
Acq: 14 Aug 2020 21:44

Tgt Ion:106 Resp: 6040
Ion Ratio Lower Upper
106 100
91 197.5 140.8 261.6



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





#59

1,2,3-Trichloropropane

Concen: 0.276 ug/L

RT: 11.06 min Scan# 3022

Delta R.T. 0.23 min

Lab File: VU039874.D

Acq: 14 Aug 2020 21:44

Instrument :

MSVOA_U

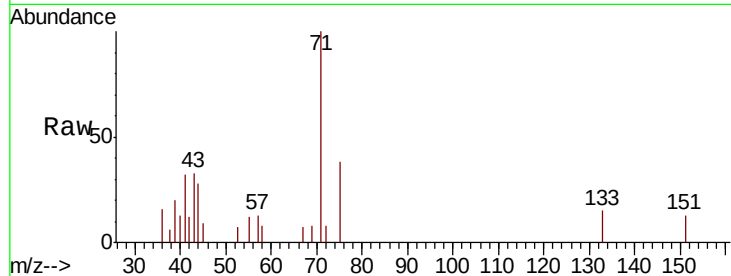
ClientSampleId :

Tot Ion: 75 Resp: 1005

Ion Ratio Lower Upper

75 100

77 34.0 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

800

600

400

200

0

Time-->

11.05

11.06

