

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\
 Data File : VU038359.D
 Acq On : 28 May 2020 20:18
 Operator : JC/MD
 Sample : L2756-05MS 200X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 29 04:34:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 29 04:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	606461	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	577177	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	275392	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	189898	49.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.76%
7) Chloroethane-d5	1.93	69	157868	53.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.34%
11) 1,1-Dichloroethene-d2	2.59	63	385855	49.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.18%
21) 2-Butanone-d5	4.66	46	394193	108.98	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.98%
24) Chloroform-d	5.10	84	374535	50.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.20%
26) 1,2-Dichloroethane-d4	5.74	65	260039	50.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.50%
32) Benzene-d6	5.76	84	776305	51.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.52%
36) 1,2-Dichloropropane-d6	6.72	67	241540	51.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.90%
41) Toluene-d8	7.92	98	664709	50.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.28%
43) trans-1,3-Dichloropropene-	8.20	79	115795	50.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.06%
47) 2-Hexanone-d5	8.65	63	286414	117.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	117.02%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	345803	50.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.52%
64) 1,2-Dichlorobenzene-d4	12.20	152	259777	50.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.78%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3746	1.006	ug/L #	37
12) 1,1-Dichloroethene	2.60	96	186356	50.682	ug/L	91
16) Methylene chloride	3.08	84	32838	7.772	ug/L	92
19) 1,1-Dichloroethane	3.91	63	41496	5.548	ug/L	97
20) cis-1,2-Dichloroethene	4.71	96	654616	151.299	ug/L	99
27) 1,2-Dichloroethane	5.81	62	7278	1.169	ug/L #	74
30) 1,1,1-Trichloroethane	5.35	97	236542	37.688	ug/L	99
31) Carbon tetrachloride	5.35	117	28719	5.490	ug/L	99
33) Benzene	5.81	78	860598	53.089	ug/L	100
34) Trichloroethene	6.57	95	218501	52.682	ug/L	99
37) 1,2-Dichloropropane	6.72	63	25998	6.184	ug/L #	86
39) cis-1,3-Dichloropropene	7.59	75	7013	1.048	ug/L #	63
40) 4-Methyl-2-pentanone	7.82	43	13758	2.058	ug/L	99
42) Toluene	7.99	91	1279656	75.191	ug/L	100
48) 2-Hexanone	8.71	43	17248	3.055	ug/L	96
51) Chlorobenzene	9.47	112	556369	50.867	ug/L	100
52) Ethylbenzene	9.59	91	75515	3.960	ug/L	100

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ClientSampleId :

Quant Time: May 29 04:34:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 29 04:31:03 2020
Response via : Initial Calibration

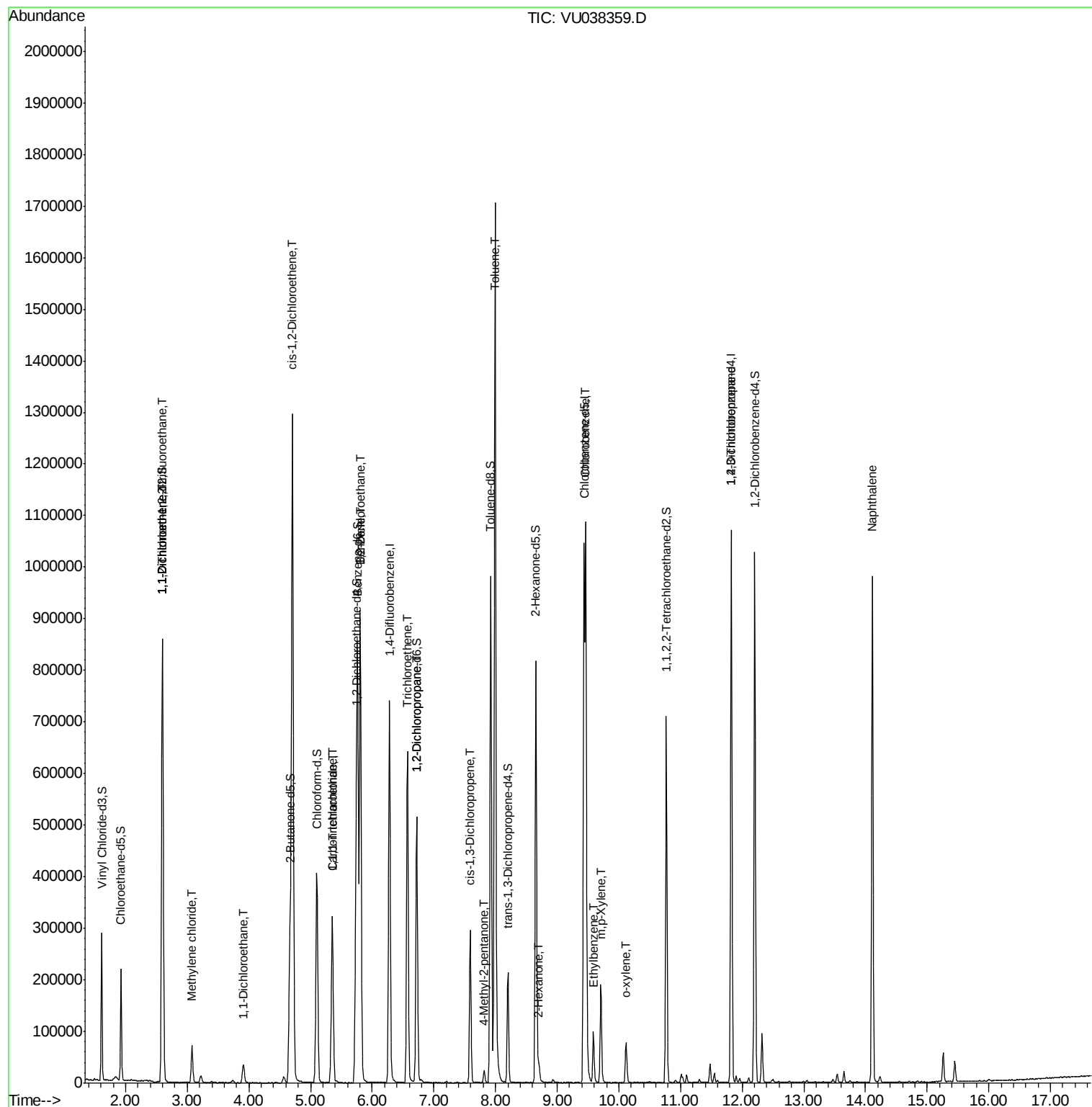
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.71	106	56124	7.696	ug/L	99
54) o-xylene	10.12	106	20609	2.907	ug/L	94
59) 1,2,3-Trichloropropane	11.82	75	34701	5.903	ug/L	91
69) Naphthalene	14.11	128	755841	38.415	ug/L	100

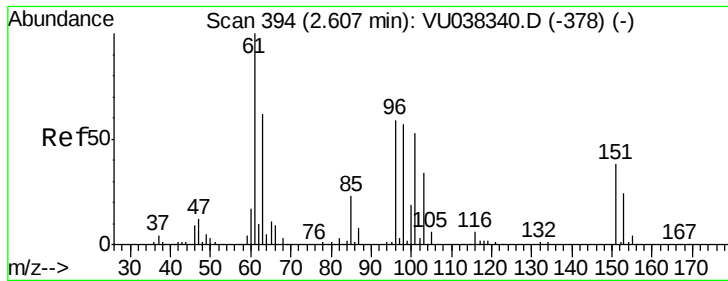
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 29 04:31:03 2020
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.006 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

Instrument :

MSVOA_U

ClientSampled :

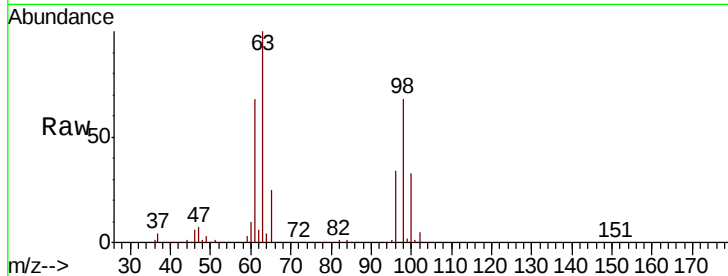
Tot Ion:101 Resp: 3746

Ion Ratio Lower Upper

101 100

85 10.0 35.5 53.3#

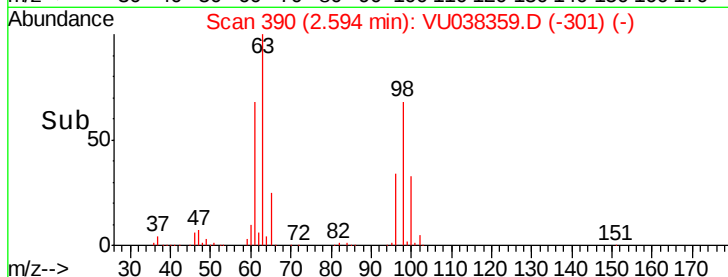
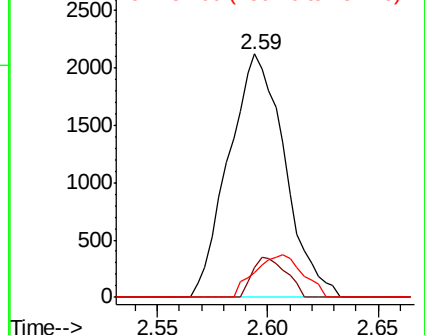
151 15.0 58.4 87.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 50.682 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

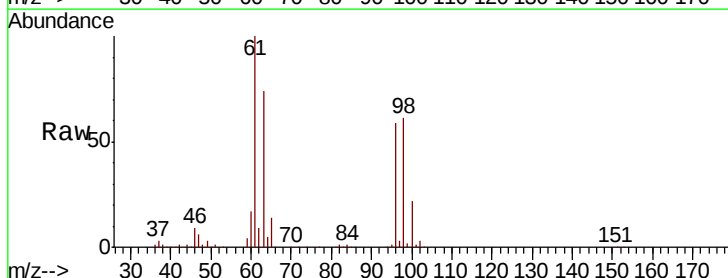
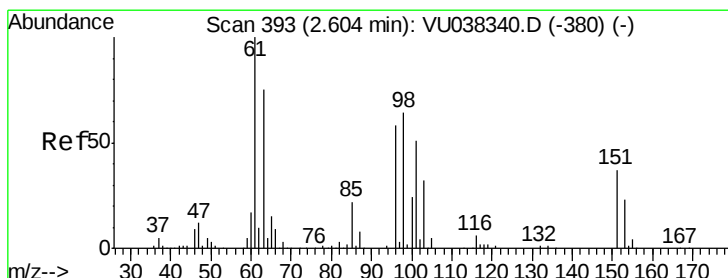
Tgt Ion: 96 Resp: 186356

Ion Ratio Lower Upper

96 100

61 170.7 123.5 229.3

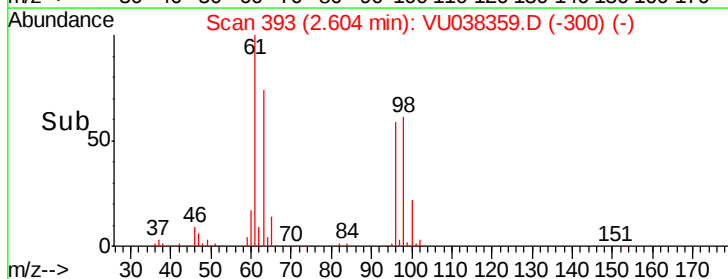
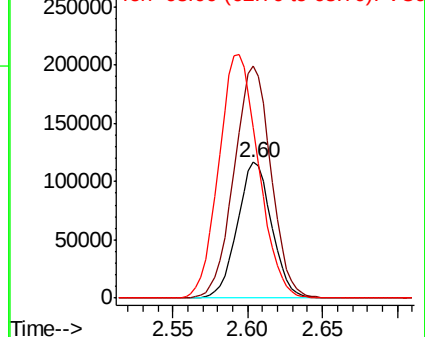
63 125.9 76.6 142.2

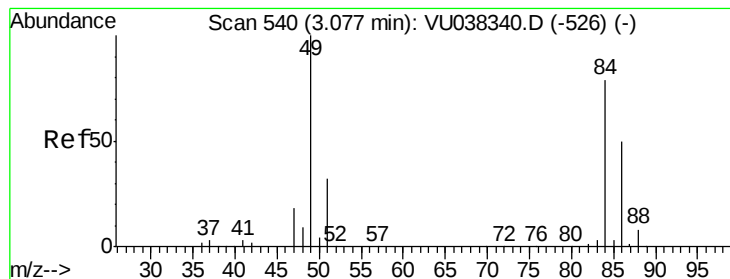


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 7.772 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

Instrument :

MSVOA_U

ClientSampled :

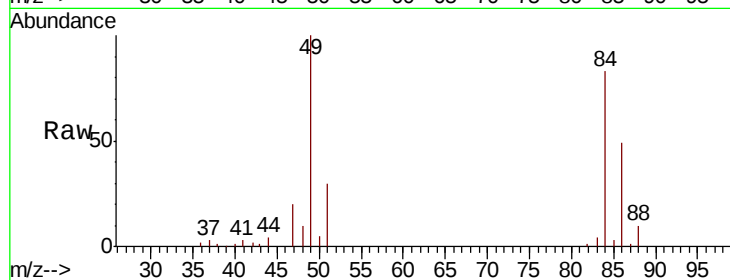
Tot Ion: 84 Resp: 32838

Ion Ratio Lower Upper

84 100

86 58.6 46.1 85.7

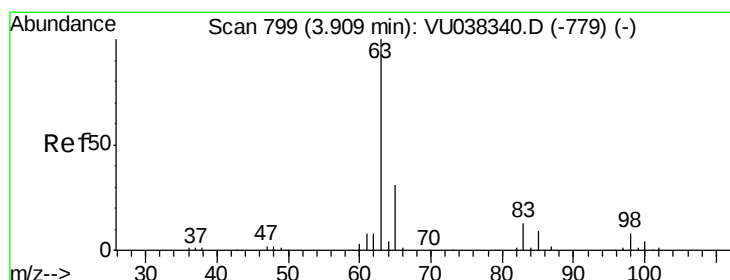
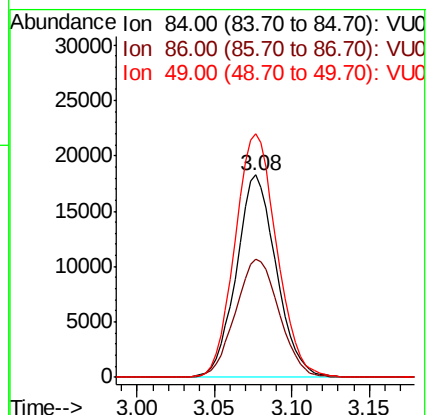
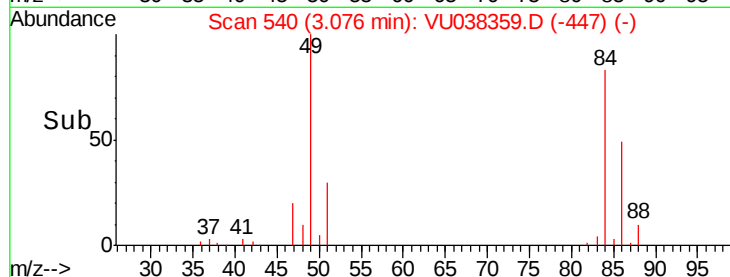
49 120.4 90.0 167.2



Abundance Ion 84.00 (83.70 to 84.70): VU038359.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU038359.D (-447) (-)

Ion 49.00 (48.70 to 49.70): VU038359.D (-447) (-)



#19

1,1-Dichloroethane

Concen: 5.548 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

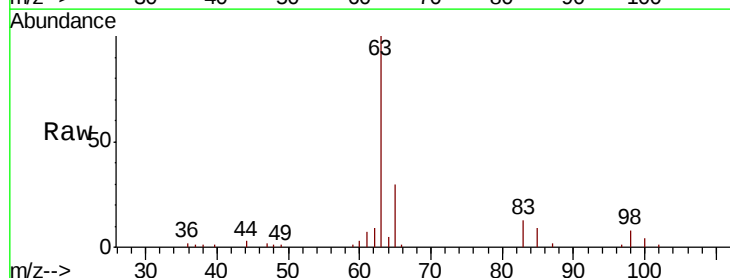
Tgt Ion: 63 Resp: 41496

Ion Ratio Lower Upper

63 100

65 29.7 22.2 41.2

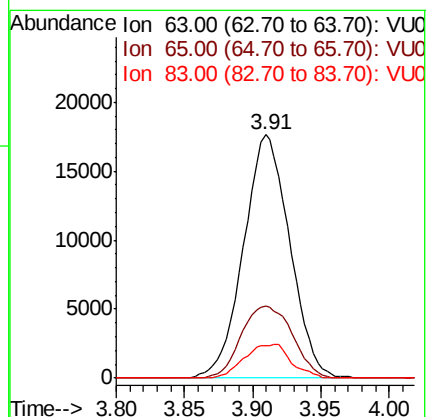
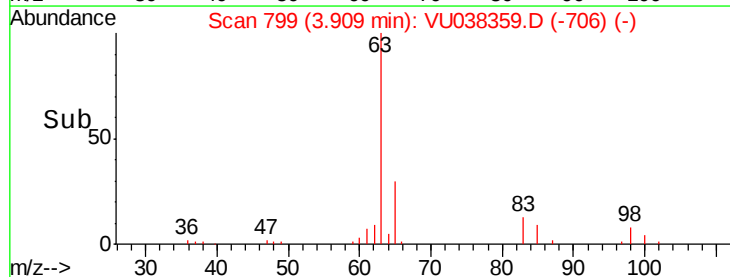
83 13.3 9.4 17.4

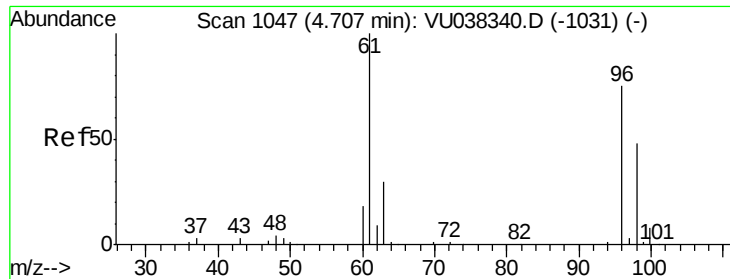


Abundance Ion 63.00 (62.70 to 63.70): VU038359.D (-706) (-)

Ion 65.00 (64.70 to 65.70): VU038359.D (-706) (-)

Ion 83.00 (82.70 to 83.70): VU038359.D (-706) (-)

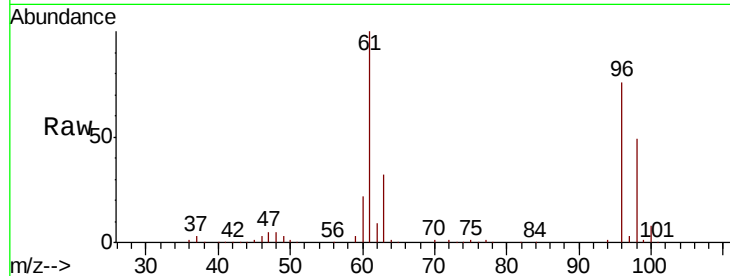




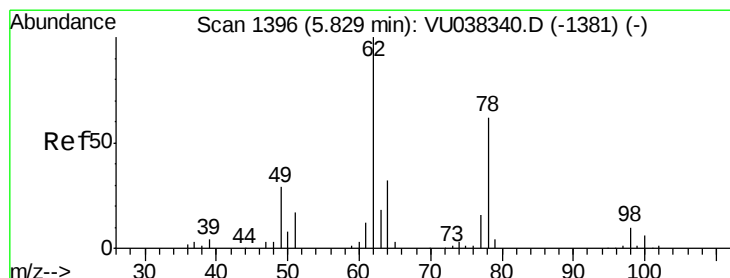
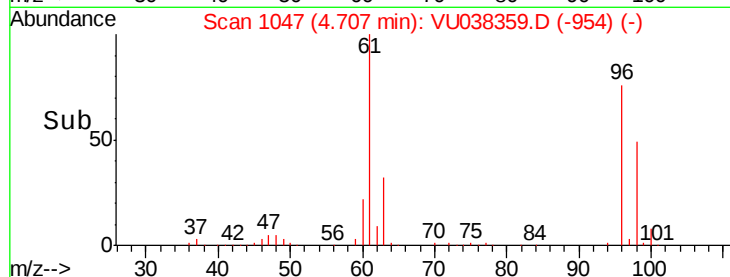
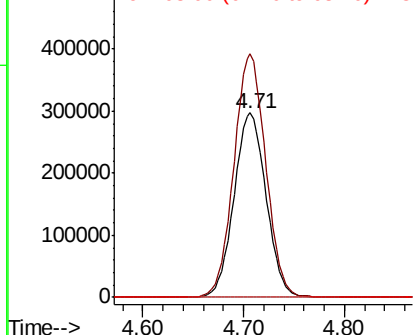
#20
 cis-1,2-Dichloroethene
 Concen: 151.299 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038359.D
 Acq: 28 May 2020 20:18

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 654616
 Ion Ratio Lower Upper
 96 100
 61 132.1 93.4 173.4
 68 0.0 0.0 0.0

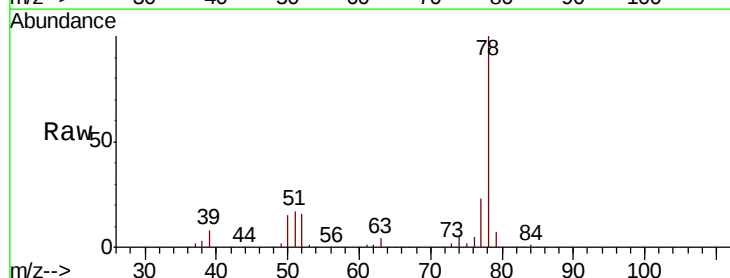


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

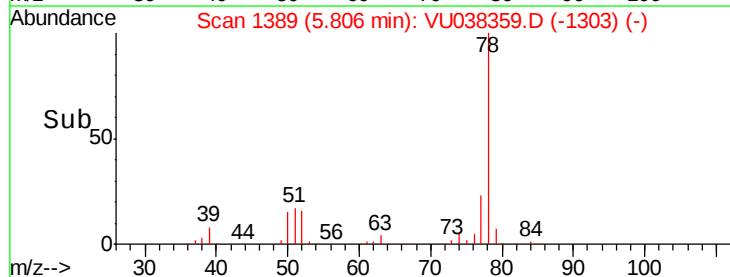
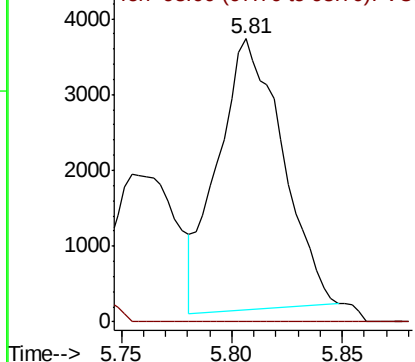


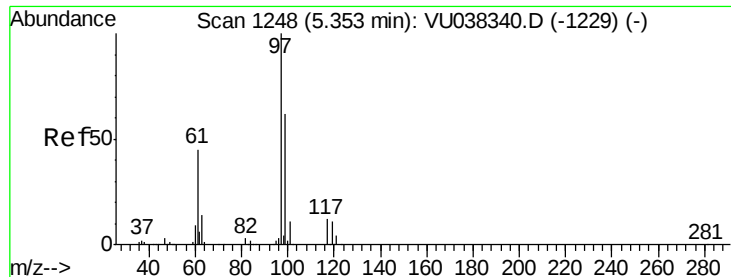
#27
 1,2-Dichloroethane
 Concen: 1.169 ug/L
 RT: 5.81 min Scan# 1389
 Delta R.T. -0.02 min
 Lab File: VU038359.D
 Acq: 28 May 2020 20:18

Tgt Ion: 62 Resp: 7278
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

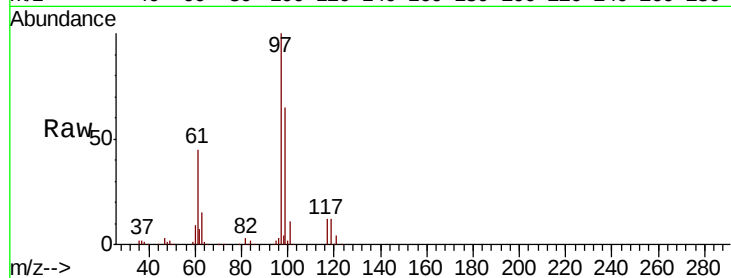




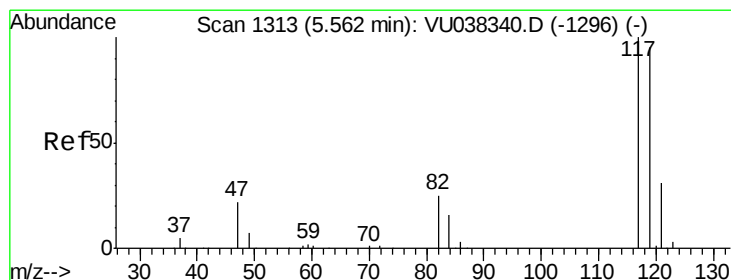
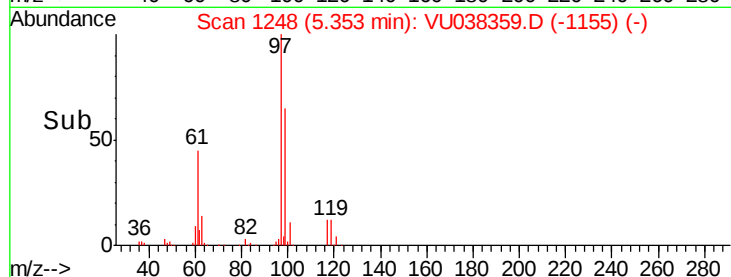
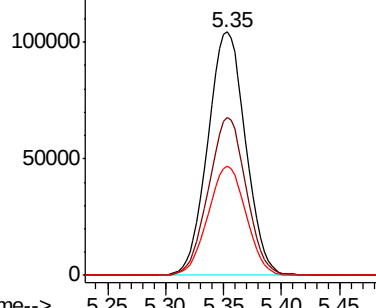
#30
 1,1,1-Trichloroethane
 Concen: 37.688 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038359.D
 Acq: 28 May 2020 20:18

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	97	Resp	236542
Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.2	76.8
61	45.1	35.9	53.9

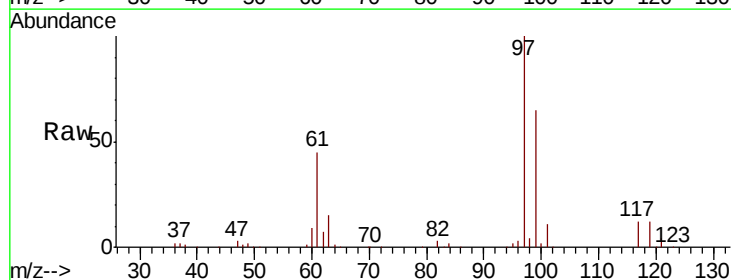


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

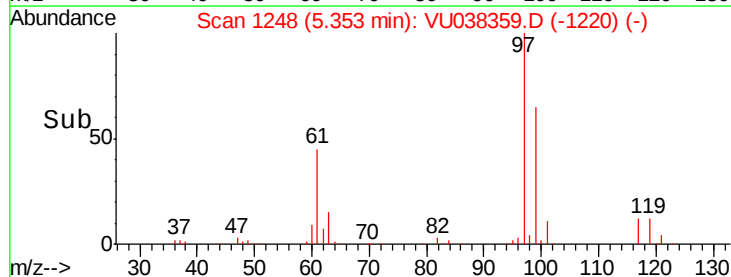
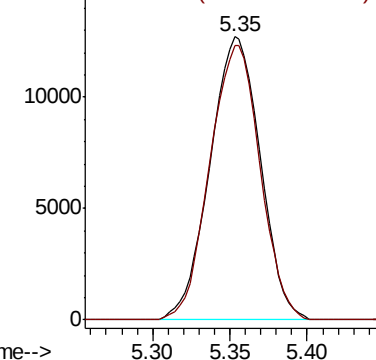


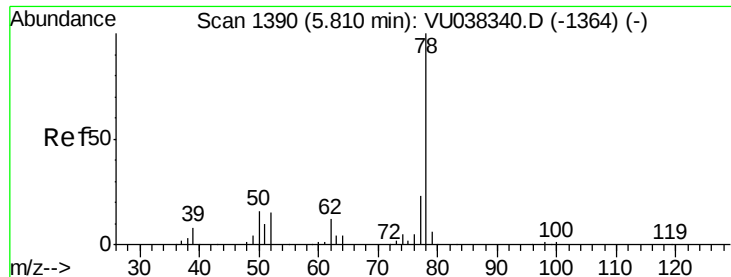
#31
 Carbon tetrachloride
 Concen: 5.490 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.21 min
 Lab File: VU038359.D
 Acq: 28 May 2020 20:18

Tgt Ion	117	Resp	28719
Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.6	114.8



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#33

Benzene

Concen: 53.089 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU038359.D

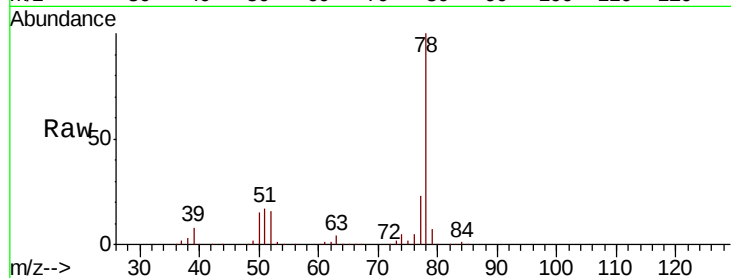
Acq: 28 May 2020 20:18

Instrument :

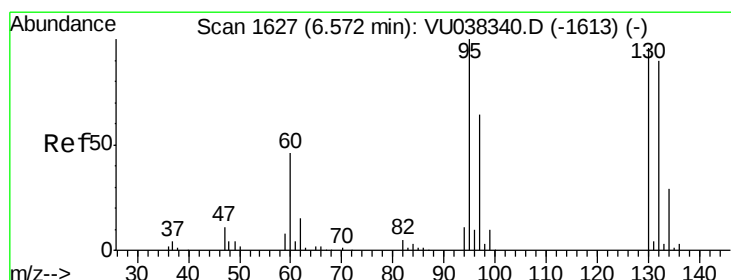
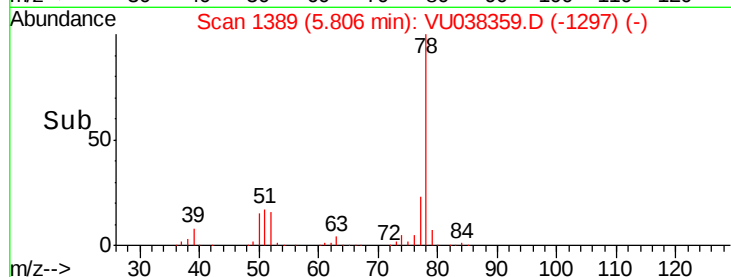
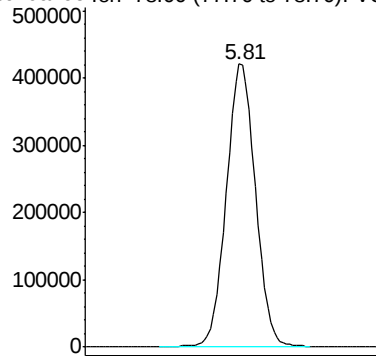
MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 860598



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 52.682 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

Tgt Ion: 95 Resp: 218501

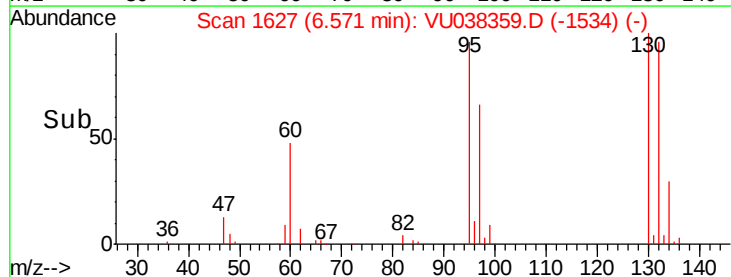
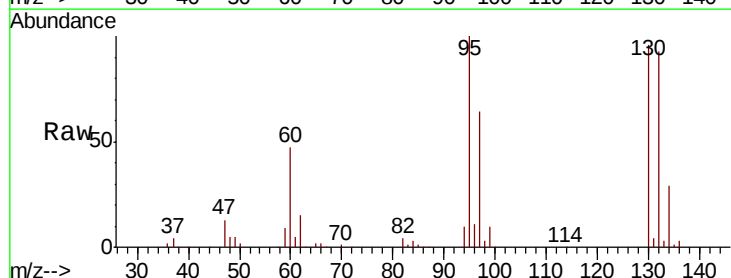
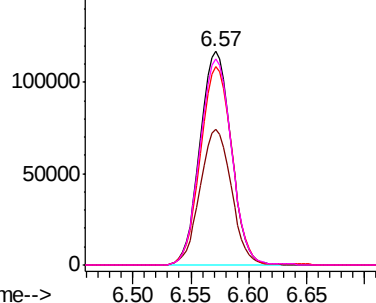
Ion	Ratio	Lower	Upper
95	100		
97	63.8	44.3	82.3
132	92.7	64.7	120.1
130	96.3	68.5	127.1

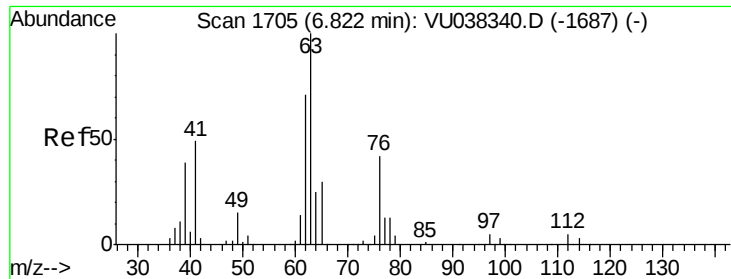
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

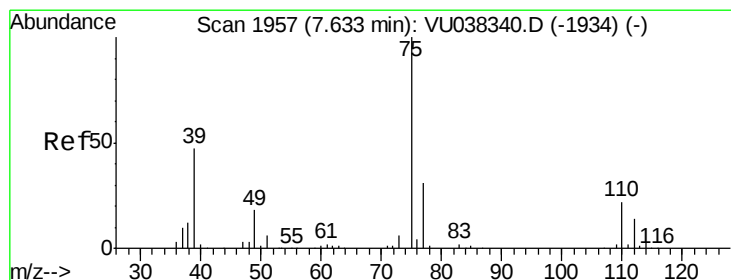
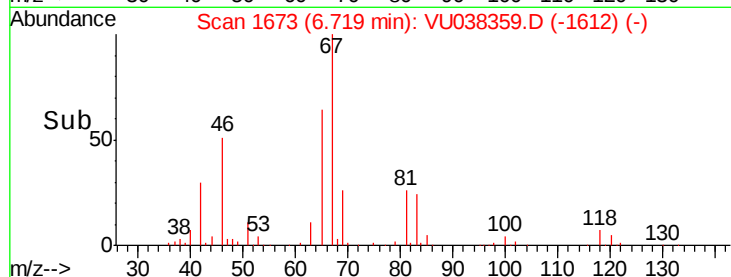
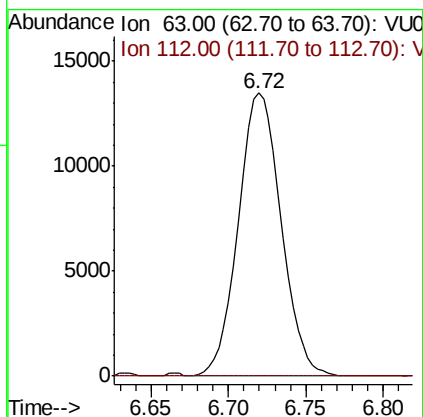
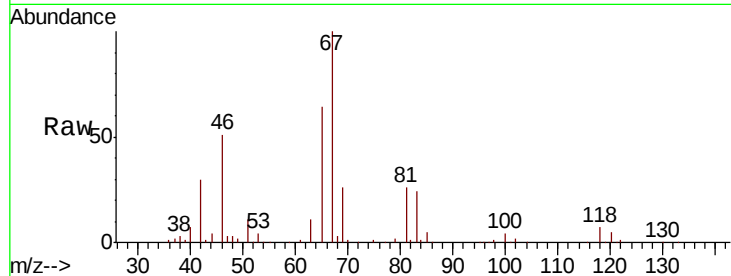




#37
 1,2-Dichloropropane
 Concen: 6.184 ug/L
 RT: 6.72 min Scan# 1673
 Delta R.T. -0.10 min
 Lab File: VU038359.D
 Acq: 28 May 2020 20:18

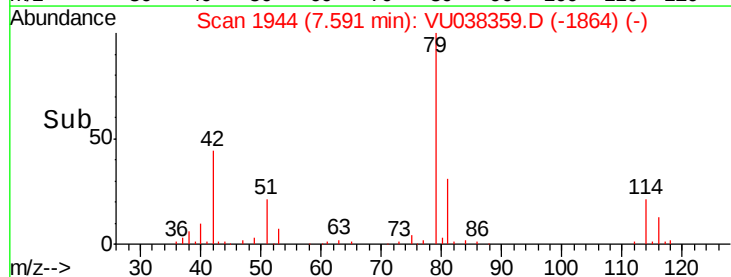
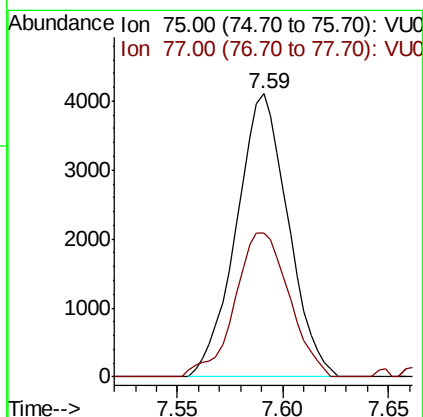
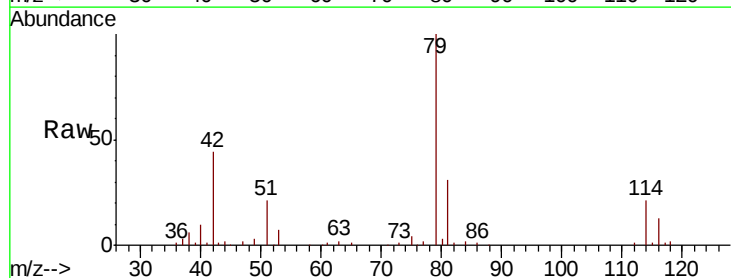
Instrument :
 MSVOA_U
 ClientSampleId :

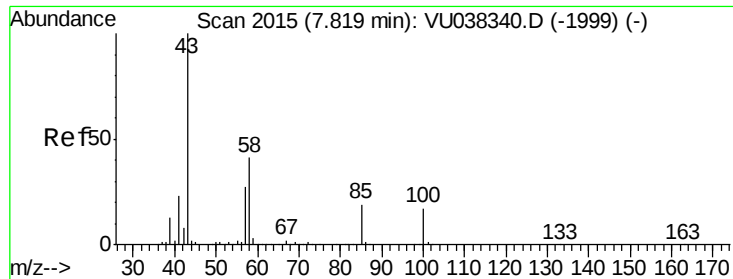
Tot Ion: 63 Resp: 25998
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 1.048 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038359.D
 Acq: 28 May 2020 20:18

Tgt Ion: 75 Resp: 7013
 Ion Ratio Lower Upper
 75 100
 77 51.0 21.6 40.0#

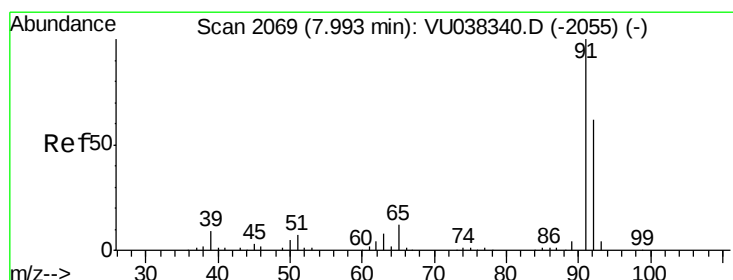
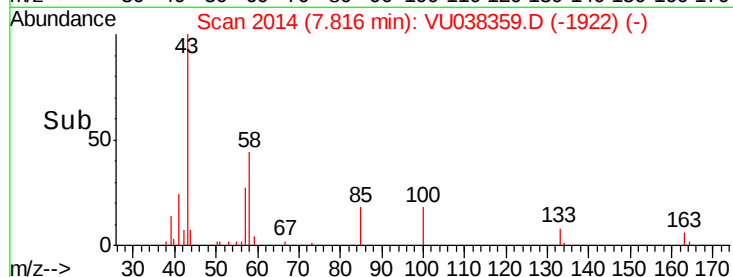
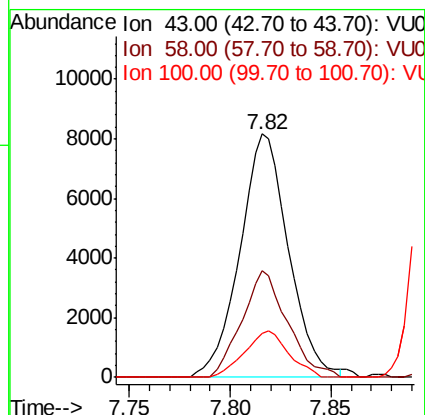
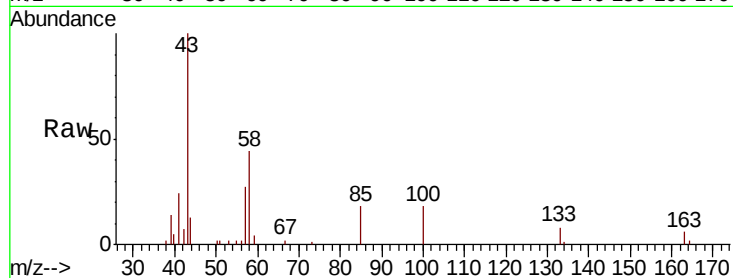




#40
4-Methyl-2-pentanone
Concen: 2.058 ug/L
RT: 7.82 min Scan# 2014
Delta R.T. -0.00 min
Lab File: VU038359.D
Acq: 28 May 2020 20:18

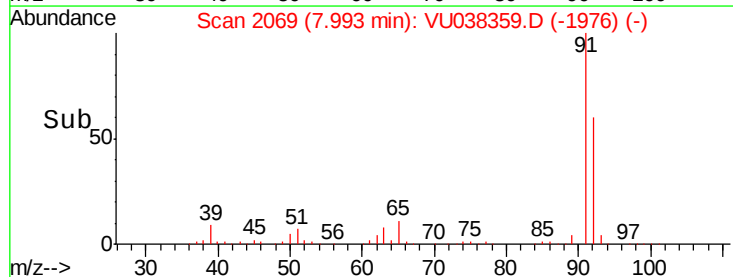
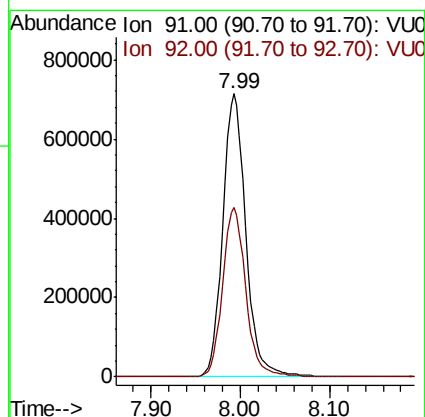
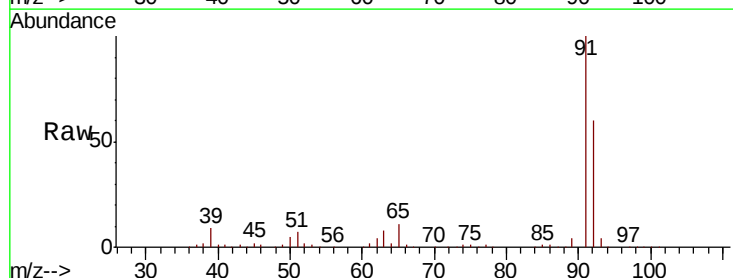
Instrument :
MSVOA_U
ClientSampled :

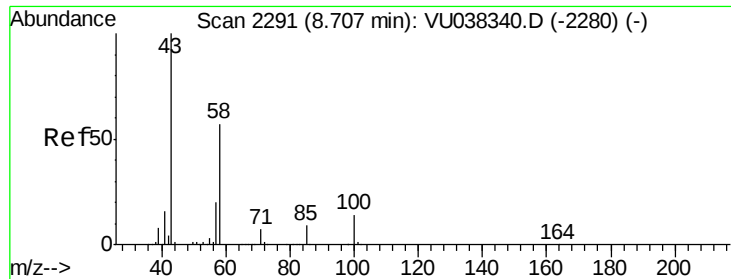
Tot Ion: 43 Resp: 13758
Ion Ratio Lower Upper
43 100
58 40.8 32.6 48.8
100 17.4 12.9 19.3



#42
Toluene
Concen: 75.191 ug/L
RT: 7.99 min Scan# 2069
Delta R.T. -0.00 min
Lab File: VU038359.D
Acq: 28 May 2020 20:18

Tgt Ion: 91 Resp: 1279656
Ion Ratio Lower Upper
91 100
92 60.0 42.0 78.0

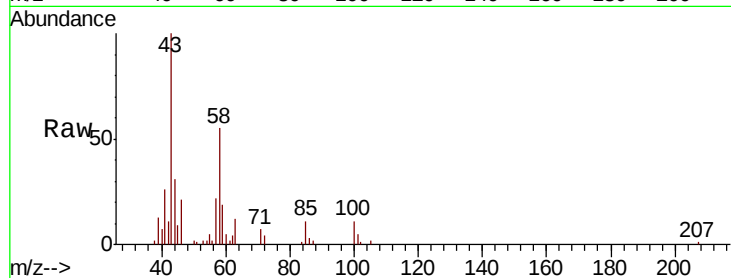




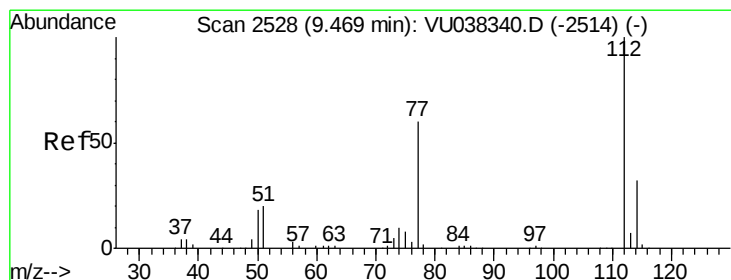
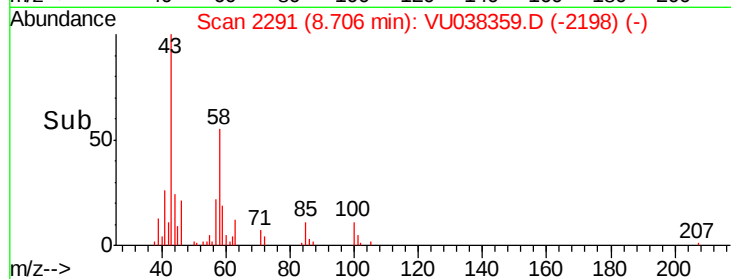
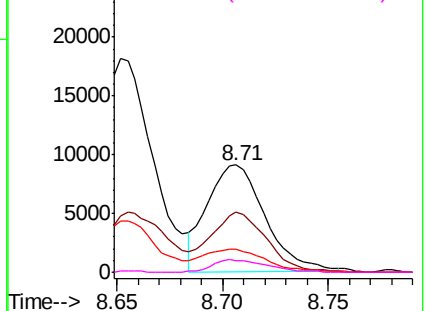
#48
2-Hexanone
Concen: 3.055 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038359.D
Acq: 28 May 2020 20:18

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	43	Resp:	17248
Ion	Ratio	Lower	Upper
43	100		
58	55.0	45.5	68.3
57	24.0	16.3	24.5
100	11.0	10.5	15.7

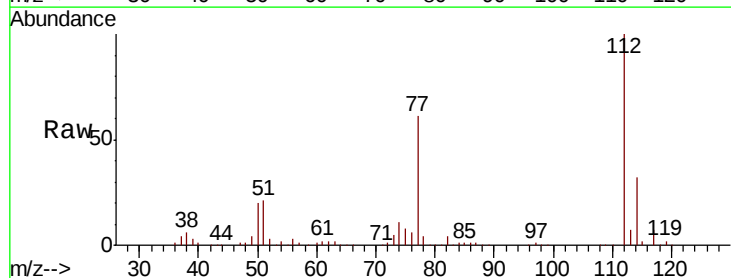


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

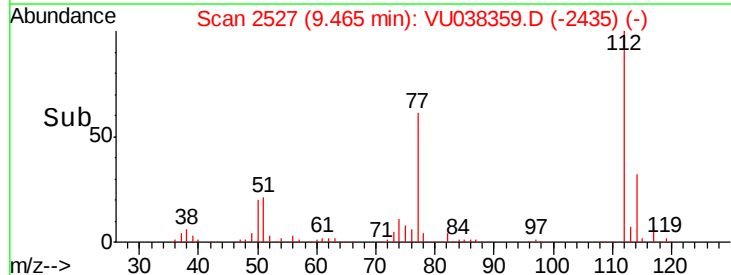
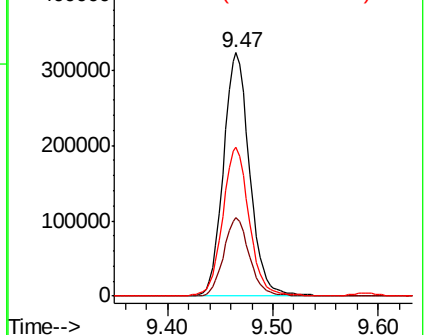


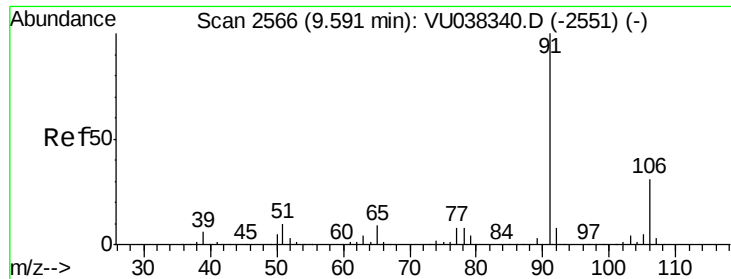
#51
Chlorobenzene
Concen: 50.867 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038359.D
Acq: 28 May 2020 20:18

Tgt Ion:	112	Resp:	556369
Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.6	42.0
77	61.1	48.8	73.2



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 3.960 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

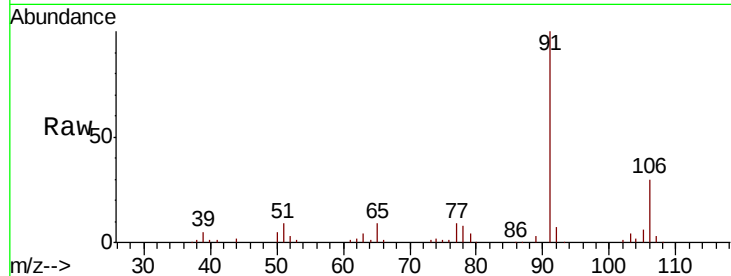
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 75515

Ion Ratio Lower Upper

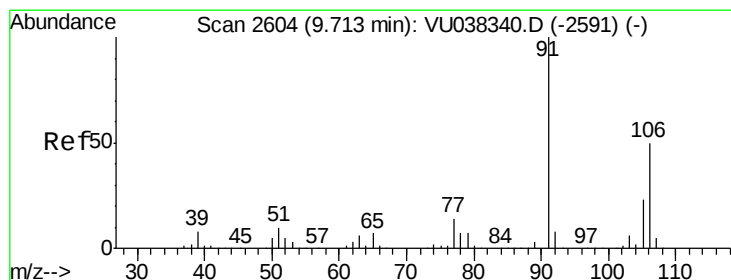
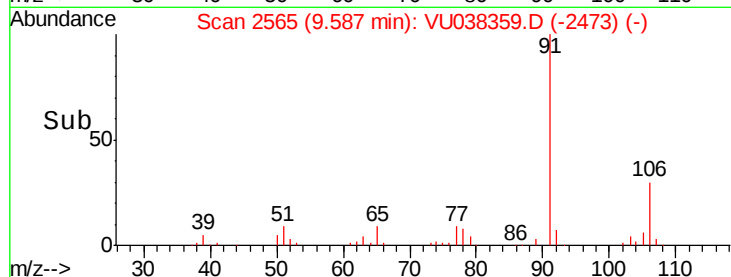
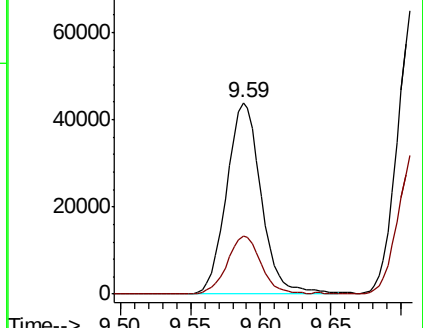
91 100

106 30.1 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU038340.D (-2551) (-)

Ion 106.00 (105.70 to 106.70): VU038359.D (-2473) (-)



#53

m,p-Xylene

Concen: 7.696 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038359.D

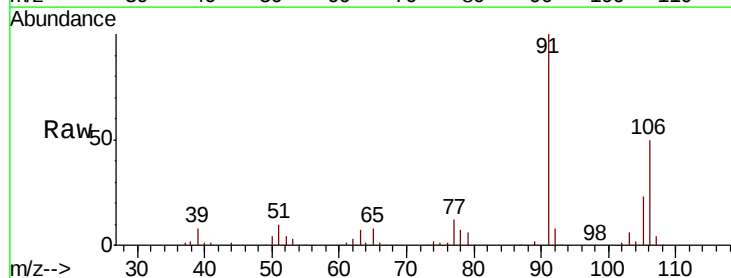
Acq: 28 May 2020 20:18

Tgt Ion: 106 Resp: 56124

Ion Ratio Lower Upper

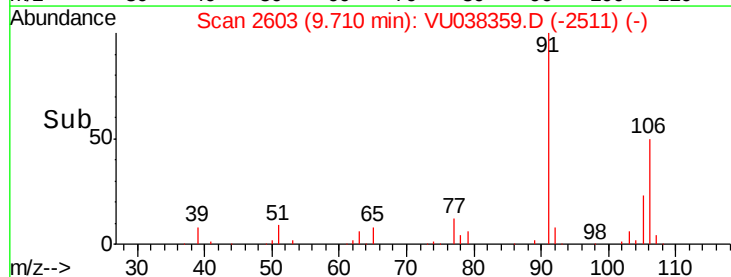
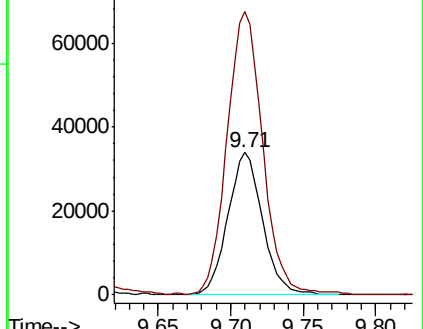
106 100

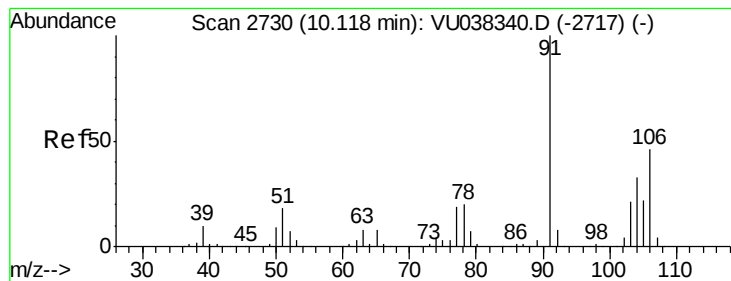
91 199.2 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): VU038359.D (-2473) (-)

Ion 91.00 (90.70 to 91.70): VU038340.D (-2551) (-)





#54

o-xylene

Concen: 2.907 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

Instrument :

MSVOA_U

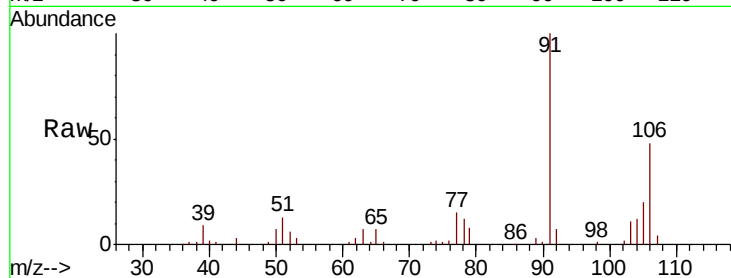
ClientSampled :

Tot Ion:106 Resp: 20609

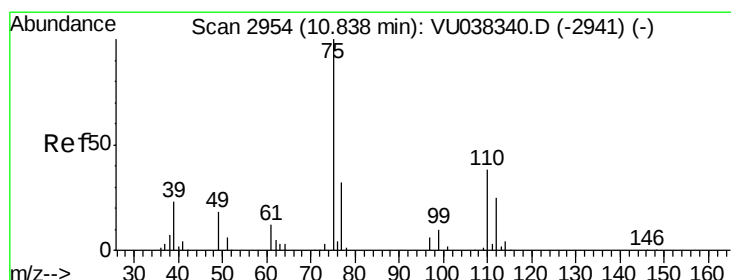
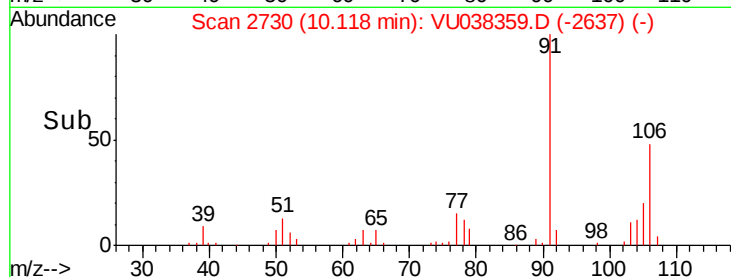
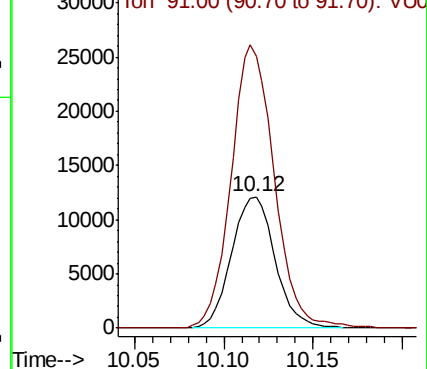
Ion Ratio Lower Upper

106 100

91 207.0 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): VU038340.D (-2717) (-)



#59

1,2,3-Trichloropropane

Concen: 5.903 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038359.D

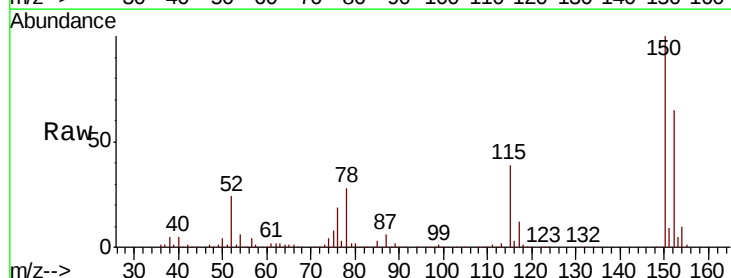
Acq: 28 May 2020 20:18

Tgt Ion: 75 Resp: 34701

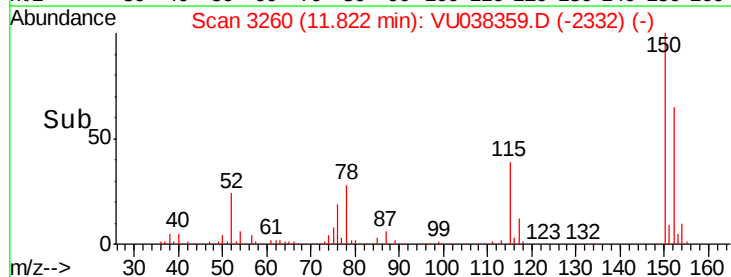
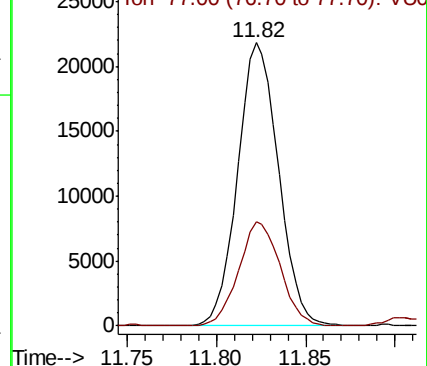
Ion Ratio Lower Upper

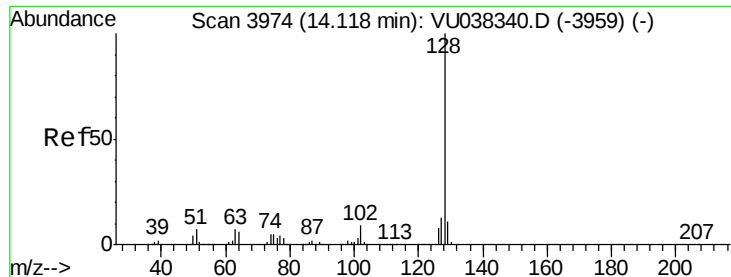
75 100

77 37.4 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU038340.D (-2941) (-)





#69

Naphthalene

Concen: 38.415 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU038359.D

Acq: 28 May 2020 20:18

Instrument :

MSVOA_U

ClientSampleId :

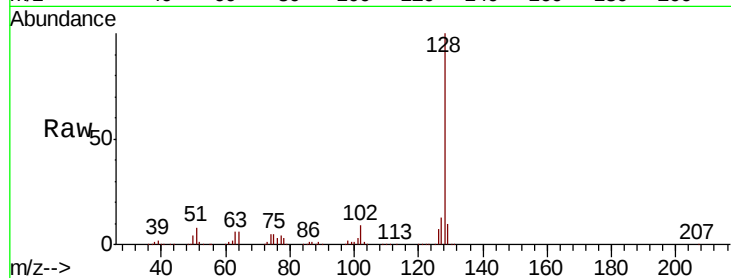
Tot Ion:128 Resp: 755841

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

