

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U061320\
 Data File : VU038849.D
 Acq On : 12 Jun 2020 14:23
 Operator : SY/MD
 Sample : L2968-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 13 00:58:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 13 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	288620	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	284452	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	135835	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	95879	6.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	122.00%
7) Chloroethane-d5	1.93	69	78274	6.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	123.80%
11) 1,1-Dichloroethene-d2	2.59	63	153289	4.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.60%
20) 2-Butanone-d5	4.68	46	301866	61.14	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.28%
24) Chloroform-d	5.10	84	189253	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
26) 1,2-Dichloroethane-d4	5.74	65	110338	5.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.00%
32) Benzene-d6	5.76	84	378833	5.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	114.00%
36) 1,2-Dichloropropane-d6	6.72	67	110181	5.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	110.80%
41) Toluene-d8	7.92	98	319048	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.60%
43) trans-1,3-Dichloropropene-	8.20	79	45268	5.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.40%
46) 2-Hexanone-d5	8.65	63	257309	65.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	131.16%#
57) 1,1,2,2-Tetrachloroethane-	10.77	84	96255	5.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	127785	5.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	44604	1.810	ug/L	97
12) 1,1-Dichloroethene	2.60	96	8492	0.420	ug/L #	1
17) Methyl tert-butyl Ether	3.39	73	5867	0.113	ug/L #	1
18) trans-1,2-Dichloroethene	3.38	96	6184	0.285	ug/L	75
19) 1,1-Dichloroethane	3.91	63	139490	3.571	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	202462	8.957	ug/L	97
25) Chloroform	5.12	83	80368	1.996	ug/L	95
27) 1,2-Dichloroethane	5.83	62	15991	0.569	ug/L	97
29) 1,1,1-Trichloroethane	5.35	97	52273	1.489	ug/L	100
30) Cyclohexane	5.43	56	6539	0.192	ug/L	91
31) Carbon tetrachloride	5.35	117	6891	0.233	ug/L	96
33) Benzene	5.81	78	35403	0.412	ug/L	100
34) Trichloroethene	6.57	95	9513	0.424	ug/L	97
35) Methylcyclohexane	6.72	83	27113	0.777	ug/L #	17
37) 1,2-Dichloropropane	6.72	63	12783	0.590	ug/L #	86
39) cis-1,3-Dichloropropene	7.59	75	3294	0.103	ug/L	84
45) 1,1,2-Trichloroethane	8.43	97	7032	0.426	ug/L	94

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Quant Time: Jun 13 00:58:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 13 00:56:28 2020
Response via : Initial Calibration

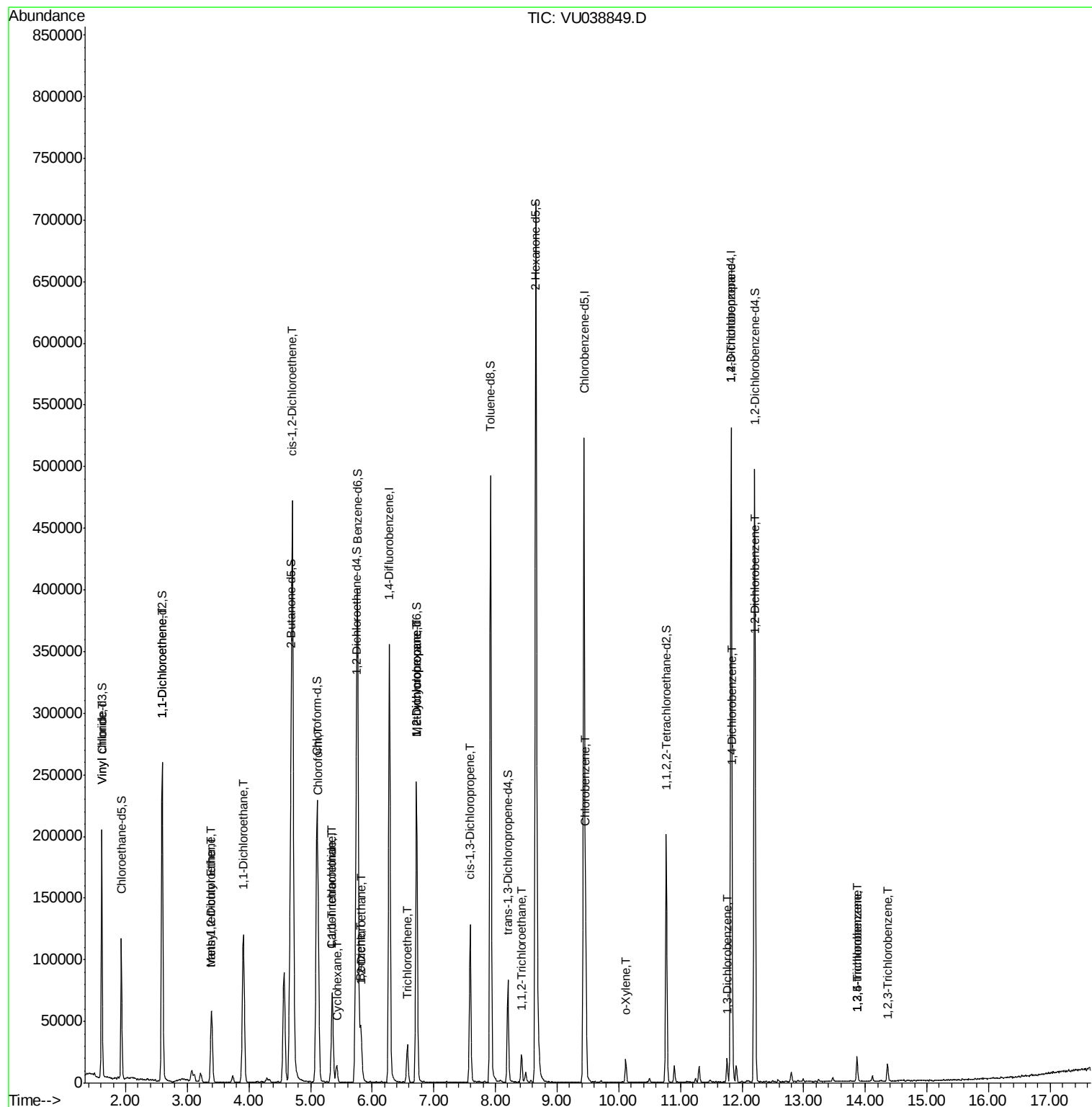
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.47	112	57291	0.980	ug/L	97
54) o-Xylene	10.12	106	5141	0.142	ug/L	97
59) 1,2,3-Trichloropropane	11.83	75	20717	1.290	ug/L	94
62) 1,3-Dichlorobenzene	11.76	146	7333	0.167	ug/L	94
63) 1,4-Dichlorobenzene	11.85	146	10558	0.236	ug/L	94
65) 1,2-Dichlorobenzene	12.22	146	5170	0.125	ug/L	98
67) 1,3,5-Trichlorobenzene	13.87	180	5820	0.181	ug/L	88
68) 1,2,4-trichlorobenzene	13.87	180	5820	0.205	ug/L	91
70) 1,2,3-Trichlorobenzene	14.37	180	4336	0.167	ug/L	90

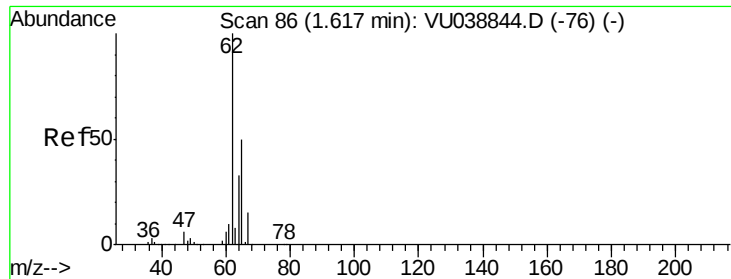
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#5

Vinyl chloride

Concen: 1.810 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

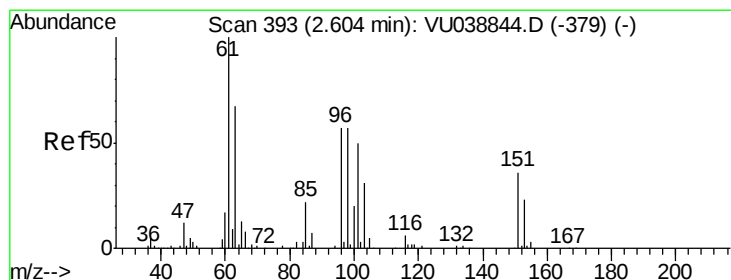
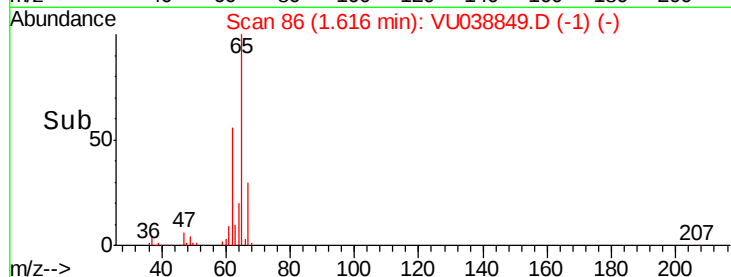
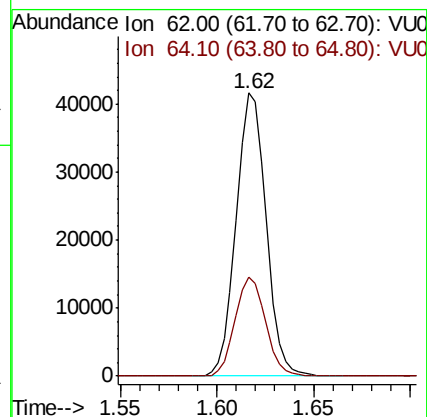
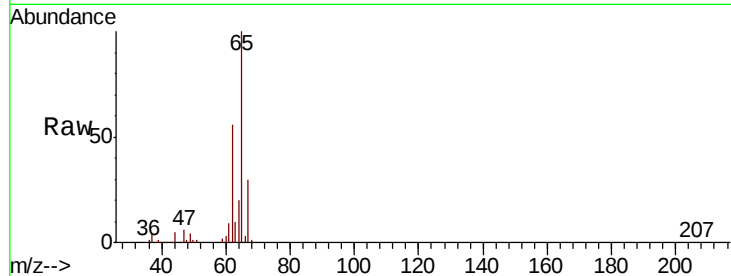
ClientSampleId :

Tot Ion: 62 Resp: 44604

Ion Ratio Lower Upper

62 100

64 35.0 23.4 43.6



#12

1,1-Dichloroethene

Concen: 0.420 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

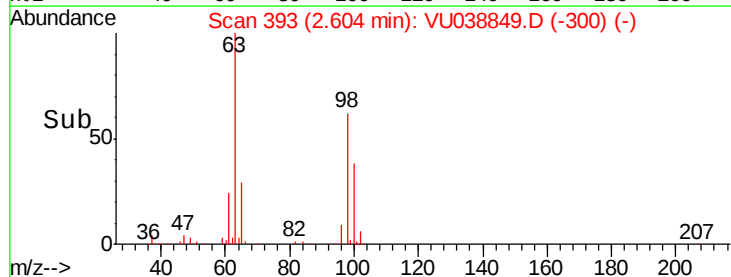
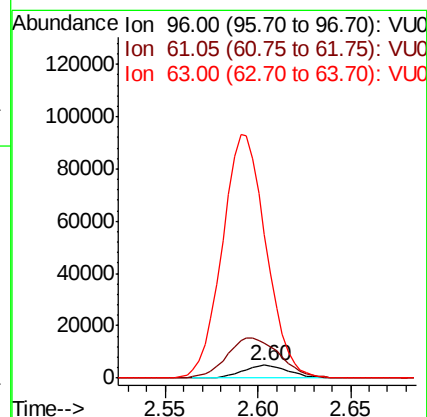
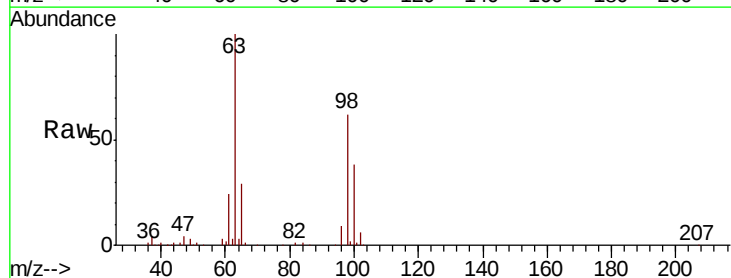
Tgt Ion: 96 Resp: 8492

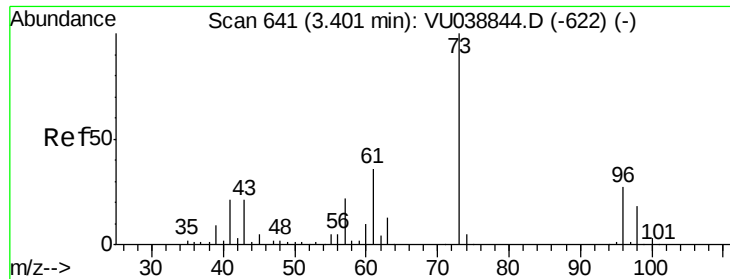
Ion Ratio Lower Upper

96 100

61 275.8 120.2 223.2#

63 1135.1 90.1 167.3#



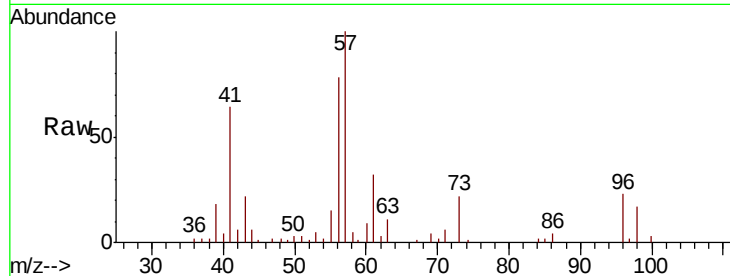


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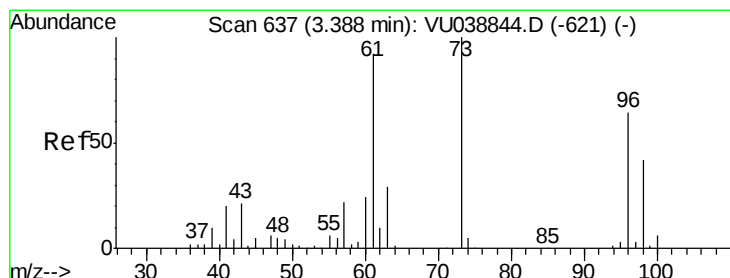
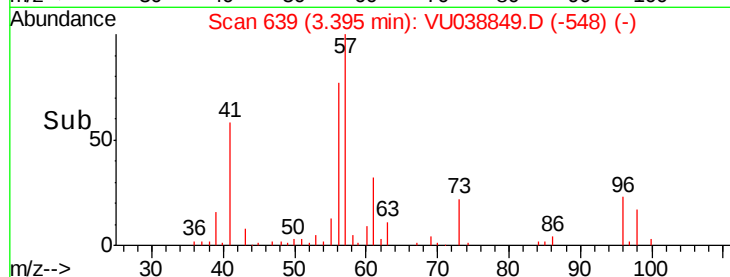
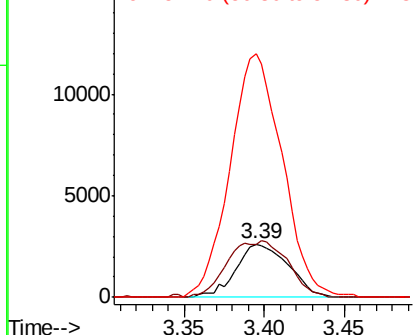
Methyl tert-butyl Ether
 Concen: 0.113 ug/L
 RT: 3.39 min Scan# 639
 Delta R.T. -0.01 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 5867
 Ion Ratio Lower Upper
 73 100
 43 122.9 15.9 23.9#
 57 456.8 17.5 26.3#



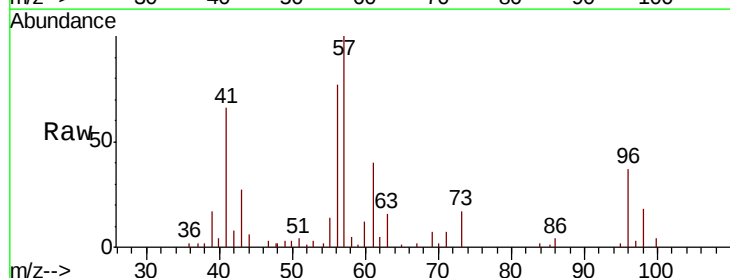
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



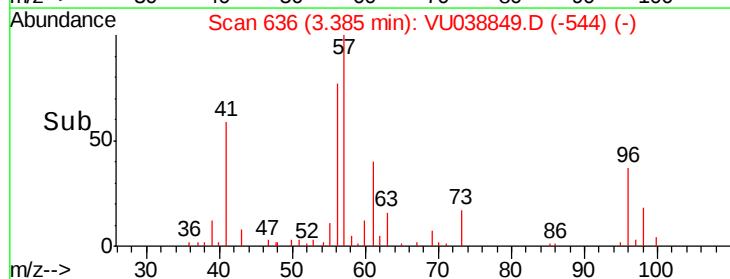
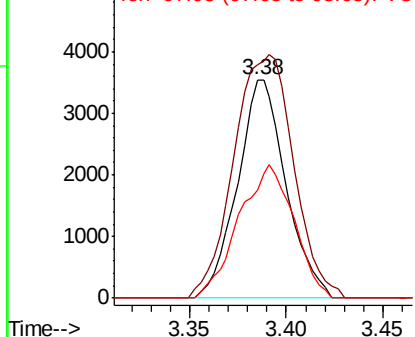
#18

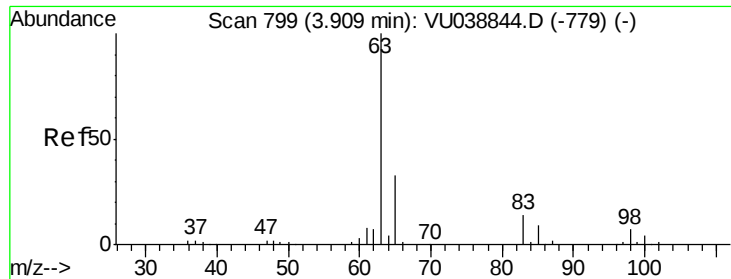
trans-1,2-Dichloroethene
 Concen: 0.285 ug/L
 RT: 3.38 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Tgt Ion: 96 Resp: 6184
 Ion Ratio Lower Upper
 96 100
 61 107.0 99.3 184.5
 98 49.4 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0



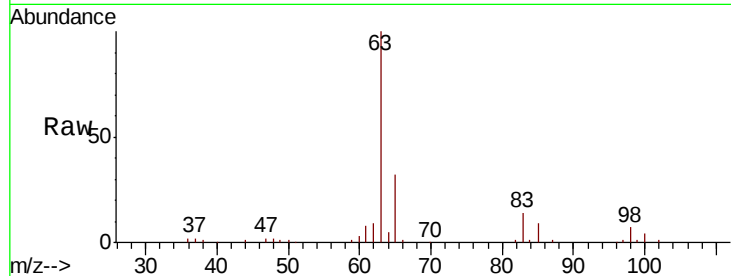


#19
 1,1-Dichloroethane
 Concen: 3.571 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

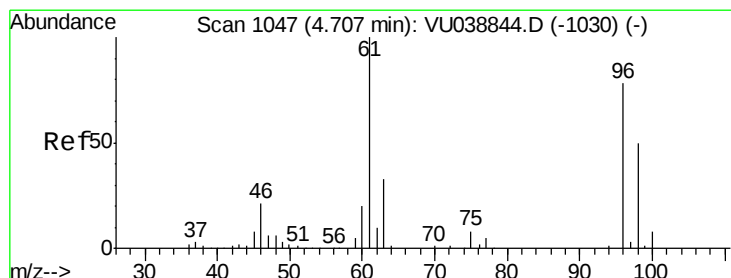
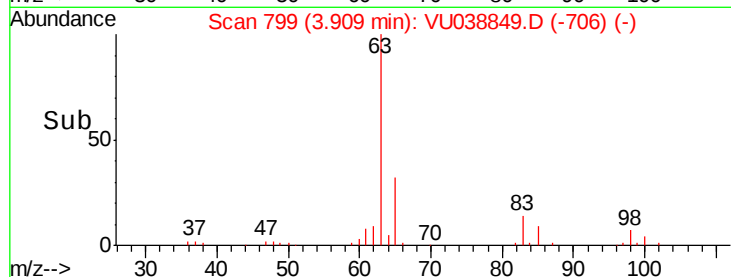
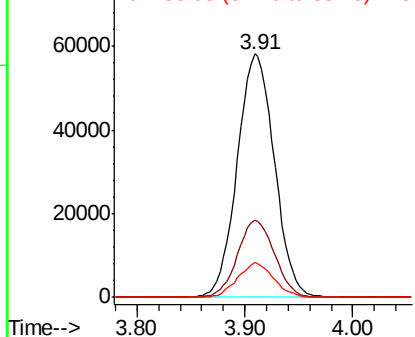
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 139490

Ion	Ratio	Lower	Upper
63	100		
65	31.5	22.3	41.5
83	14.3	10.1	18.9



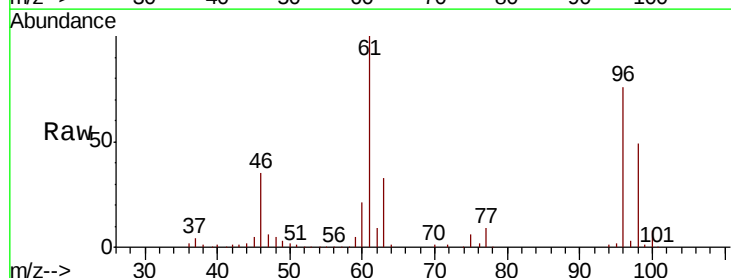
Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0



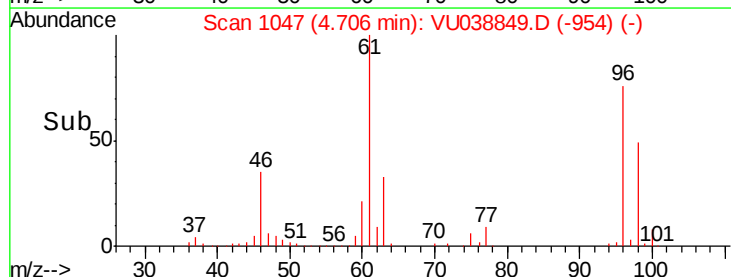
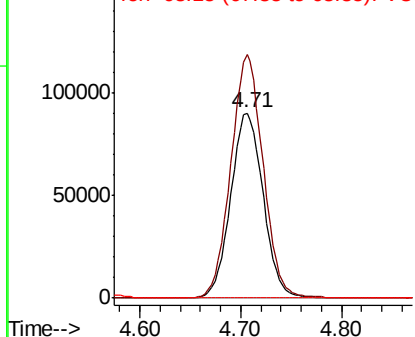
#22
 cis-1,2-Dichloroethene
 Concen: 8.957 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

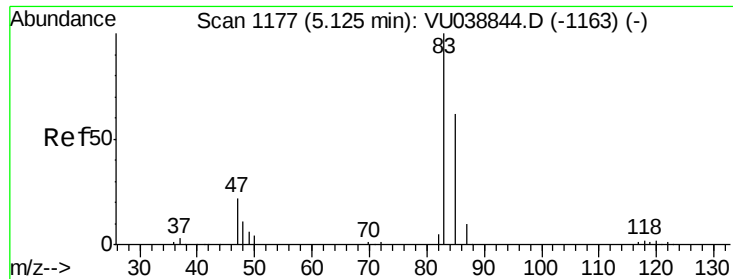
Tgt Ion: 96 Resp: 202462

Ion	Ratio	Lower	Upper
96	100		
61	131.4	89.7	166.7
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

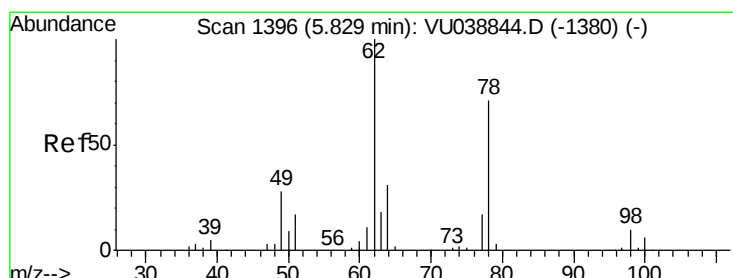
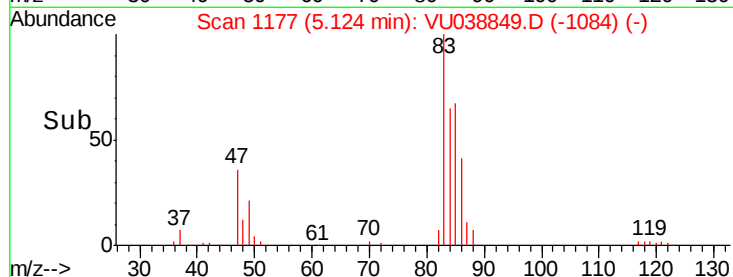
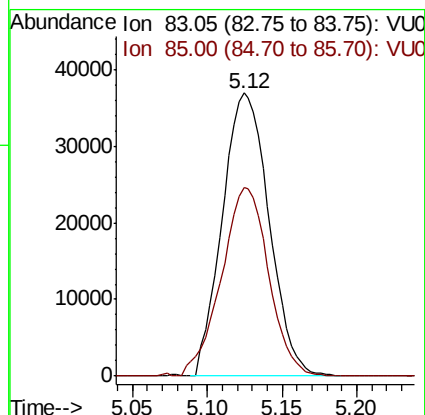
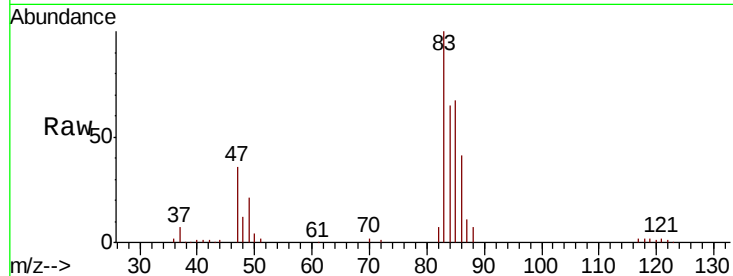




#25
Chloroform
Concen: 1.996 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

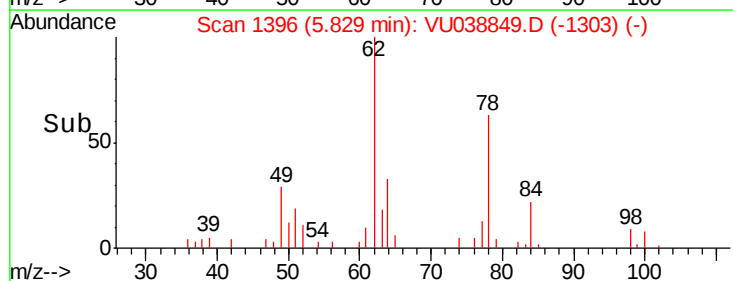
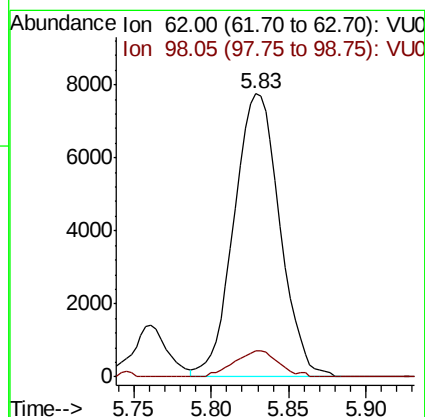
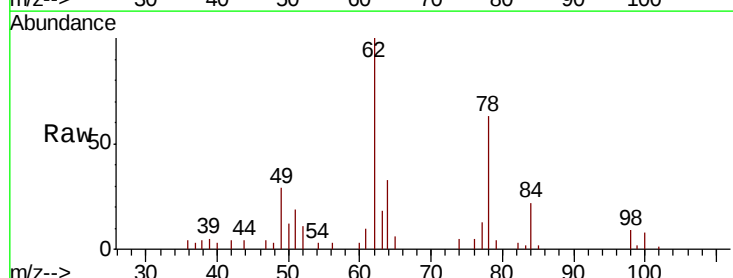
Instrument :
MSVOA_U
ClientSampleId :

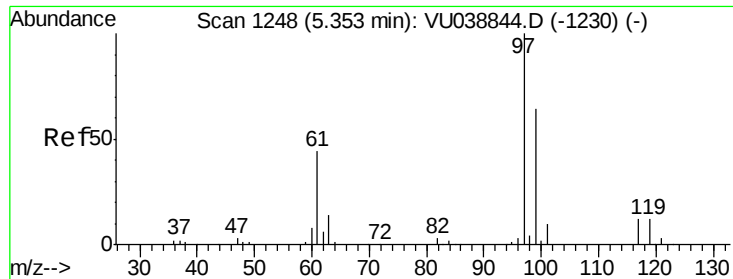
Tot Ion: 83 Resp: 80368
Ion Ratio Lower Upper
83 100
85 66.7 44.1 81.9



#27
1,2-Dichloroethane
Concen: 0.569 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Tgt Ion: 62 Resp: 15991
Ion Ratio Lower Upper
62 100
98 9.3 8.2 12.4

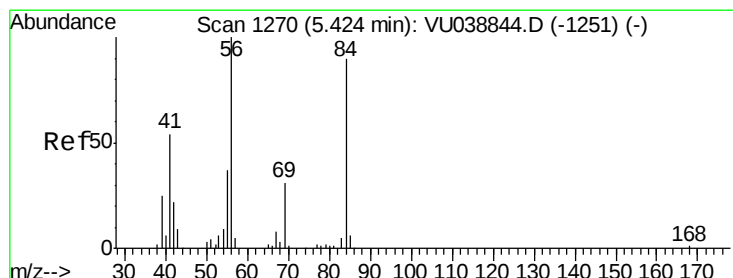
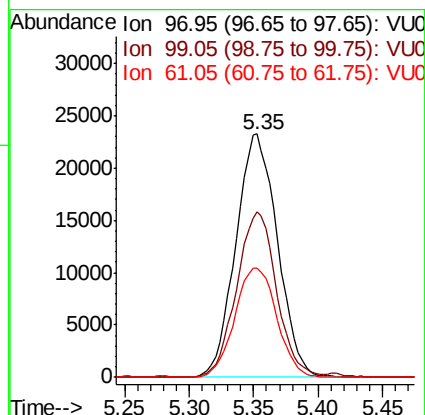
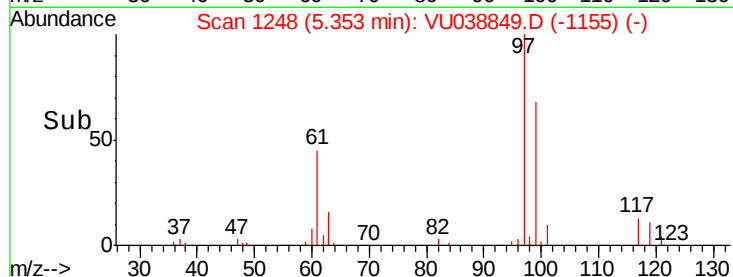
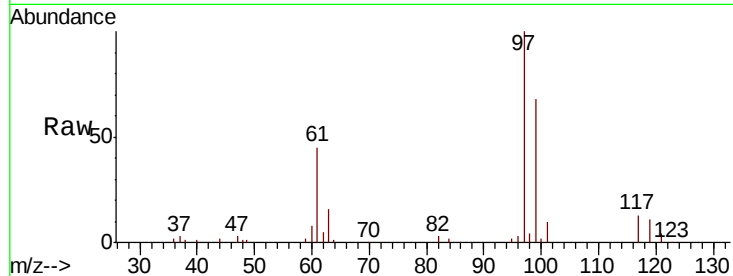




#29
1,1,1-Trichloroethane
Concen: 1.489 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

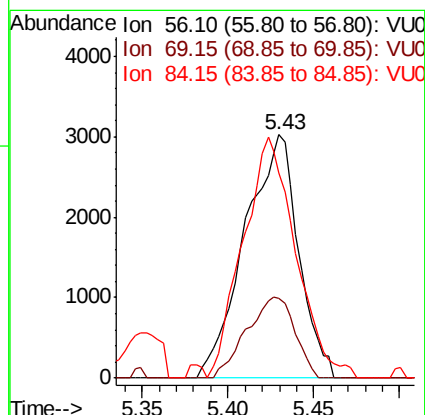
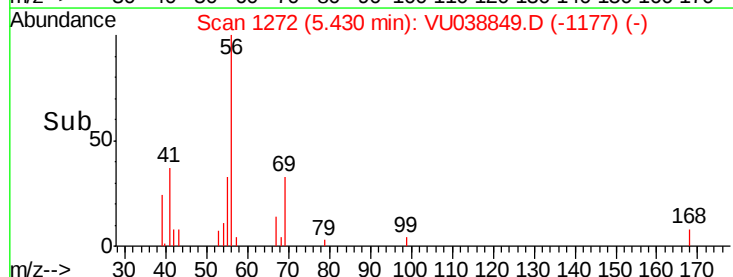
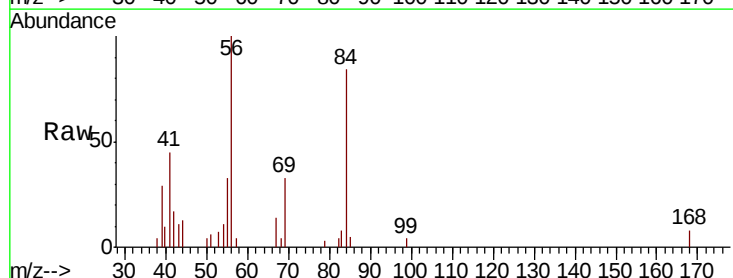
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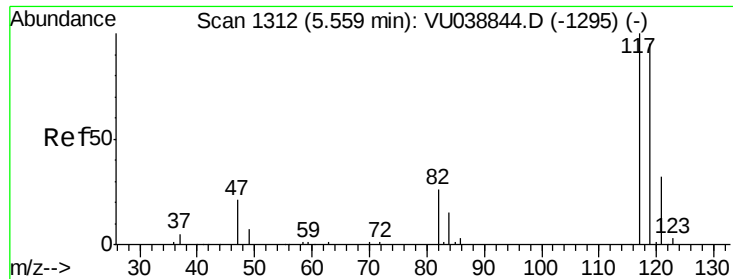
Tot Ion: 97 Resp: 52273
Ion Ratio Lower Upper
97 100
99 65.3 52.1 78.1
61 45.2 35.9 53.9



#30
Cyclohexane
Concen: 0.192 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Tgt Ion: 56 Resp: 6539
Ion Ratio Lower Upper
56 100
69 29.8 25.1 37.7
84 97.4 69.5 104.3

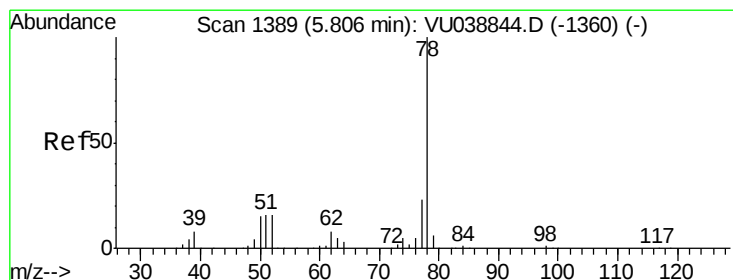
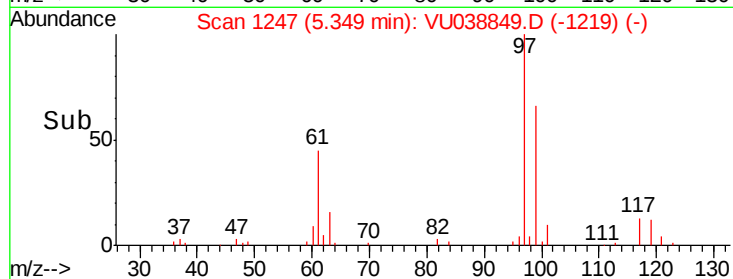
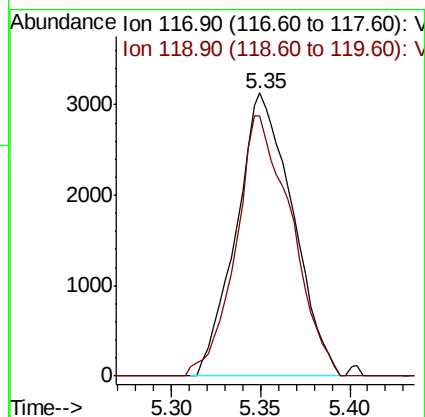
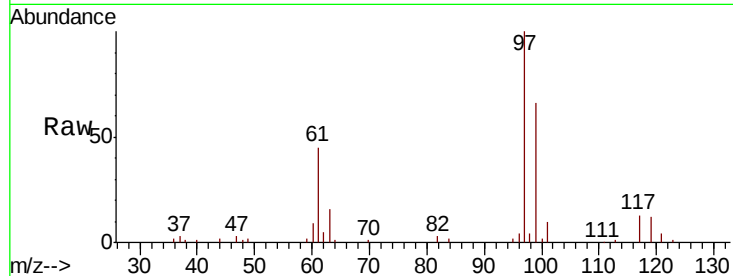




#31
Carbon tetrachloride
Concen: 0.233 ug/L
RT: 5.35 min Scan# 1247
Delta R.T. -0.21 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

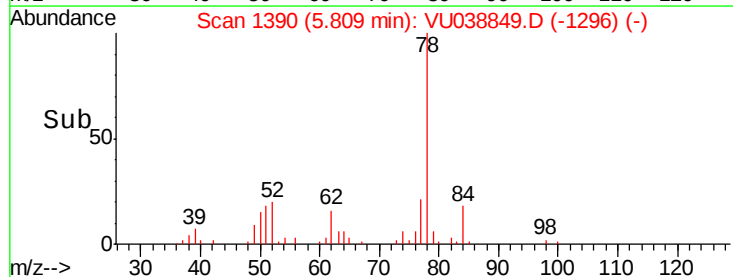
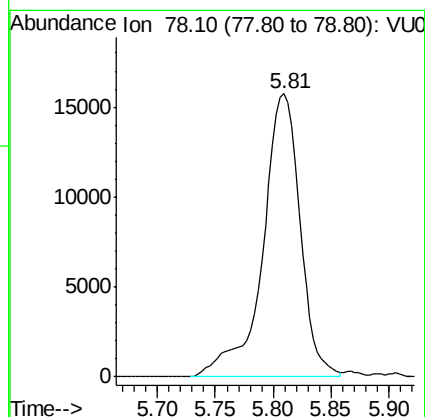
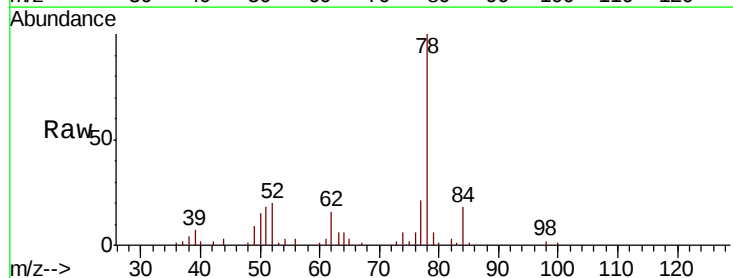
Instrument :
MSVOA_U
ClientSampleId :

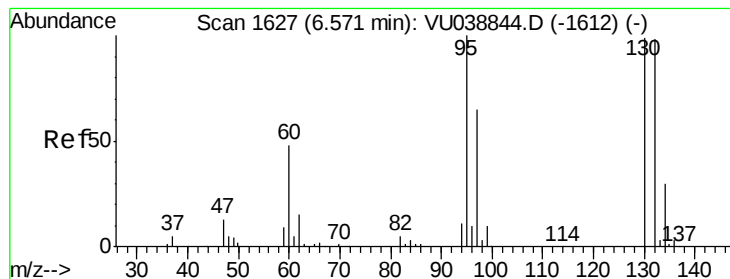
Tot Ion:117 Resp: 6891
Ion Ratio Lower Upper
117 100
119 91.1 76.2 114.2



#33
Benzene
Concen: 0.412 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Tgt Ion: 78 Resp: 35403





#34

Trichloroethene

Concen: 0.424 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 9513

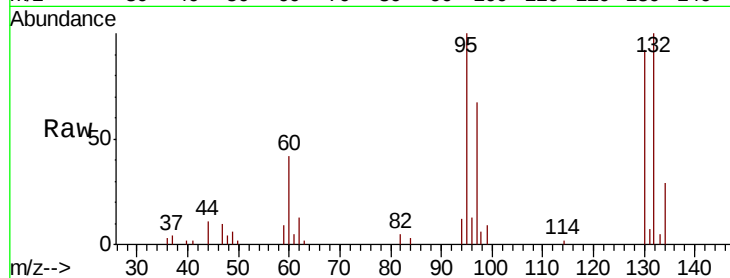
Ion Ratio Lower Upper

95 100

97 66.9 46.1 85.5

132 99.7 67.5 125.3

130 91.7 66.7 123.9

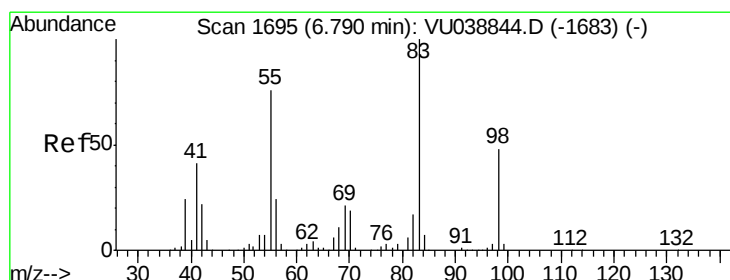
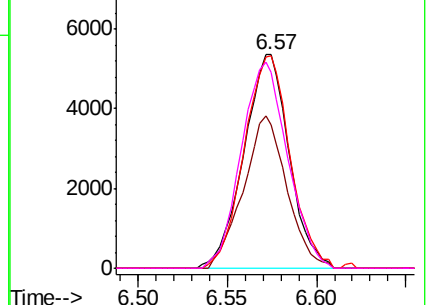
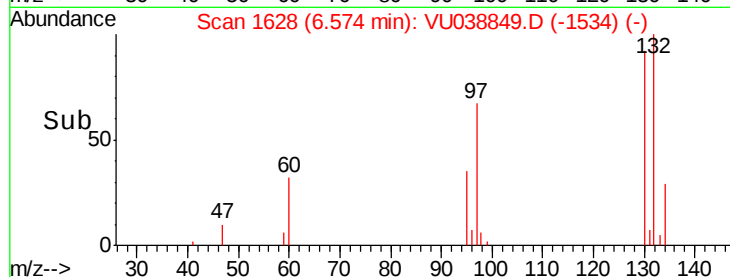


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#35

Methylcyclohexane

Concen: 0.777 ug/L

RT: 6.72 min Scan# 1673

Delta R.T. -0.07 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

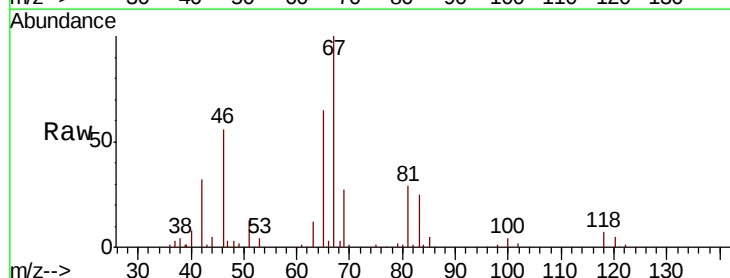
Tgt Ion: 83 Resp: 27113

Ion Ratio Lower Upper

83 100

55 0.3 64.2 96.2#

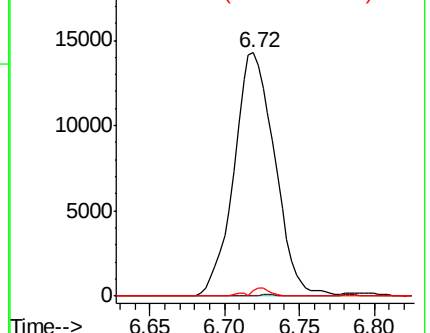
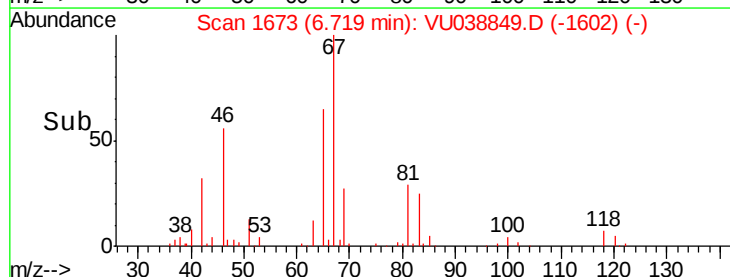
98 1.3 40.5 60.7#

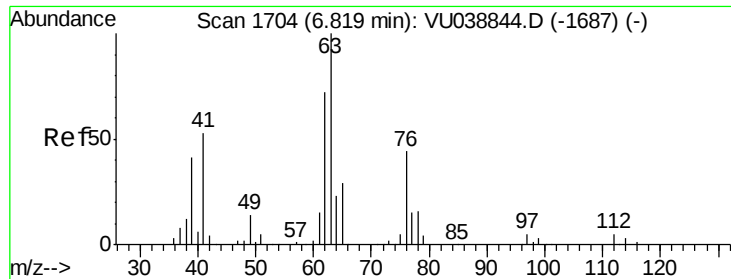


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

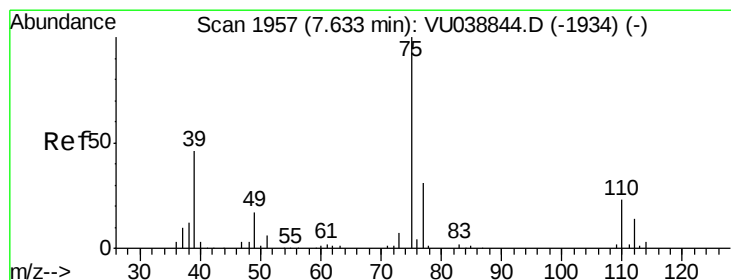
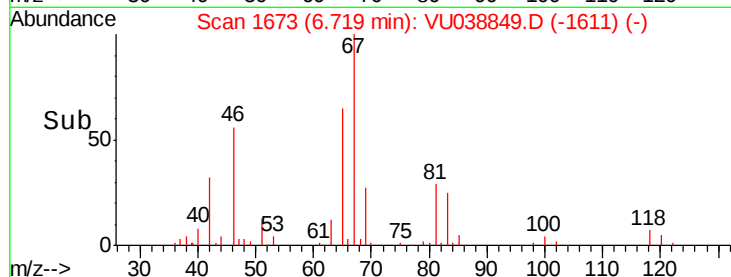
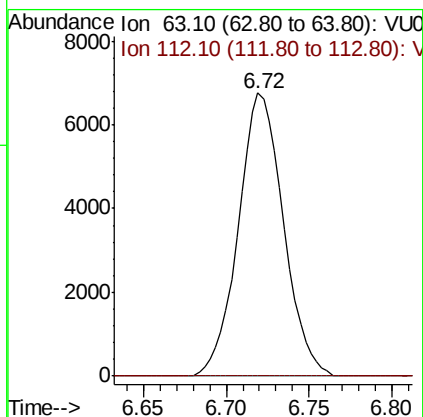
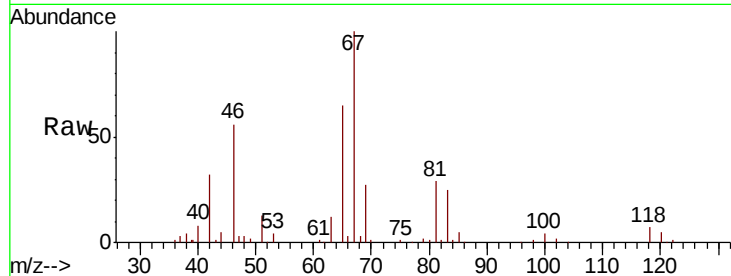




#37
 1,2-Dichloropropane
 Concen: 0.590 ug/L
 RT: 6.72 min Scan# 1673
 Delta R.T. -0.10 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

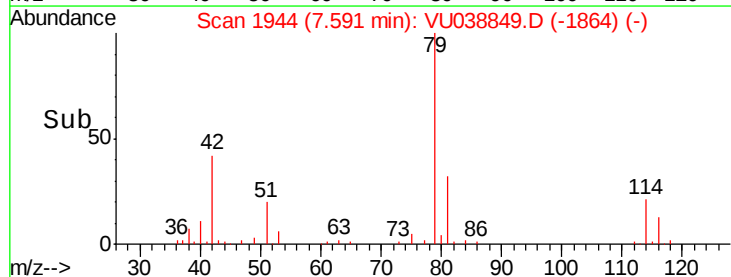
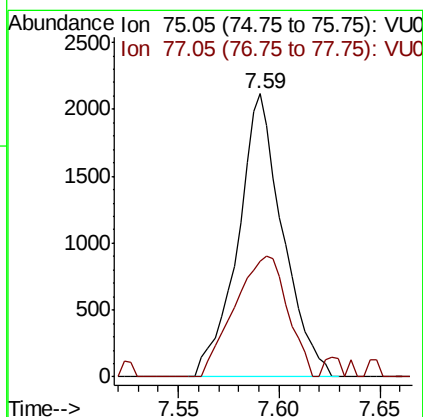
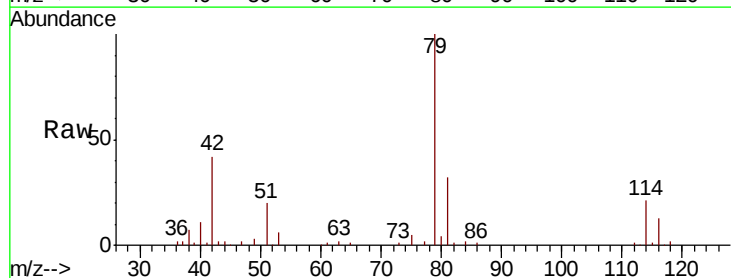
Instrument :
 MSVOA_U
 ClientSampleId :

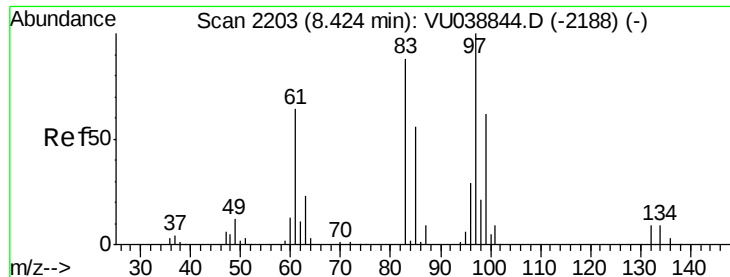
Tot Ion: 63 Resp: 12783
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.6#



#39
 cis-1,3-Dichloropropene
 Concen: 0.103 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Tgt Ion: 75 Resp: 3294
 Ion Ratio Lower Upper
 75 100
 77 40.8 22.4 41.6

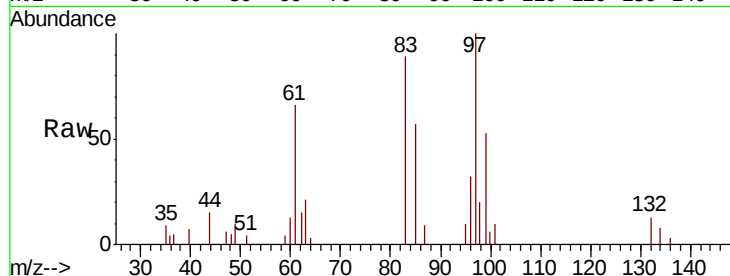




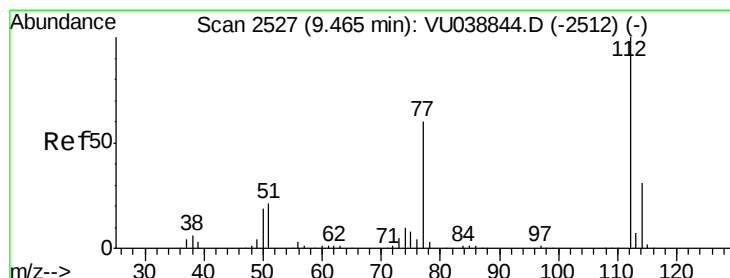
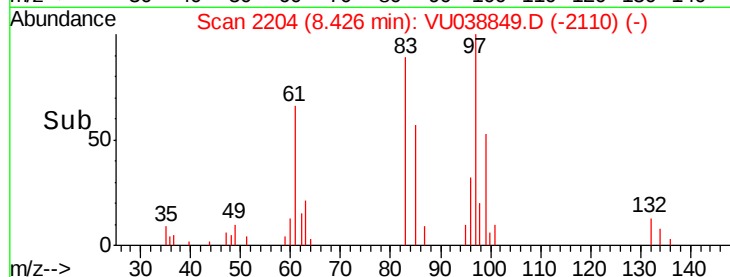
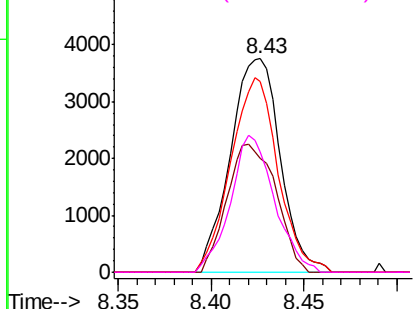
#45
1,1,2-Trichloroethane
Concen: 0.426 ug/L
RT: 8.43 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	97	Resp:	7032
Ion	Ratio	Lower	Upper
97	100		
99	53.4	42.9	79.7
83	89.1	58.0	107.8
85	56.5	39.3	72.9

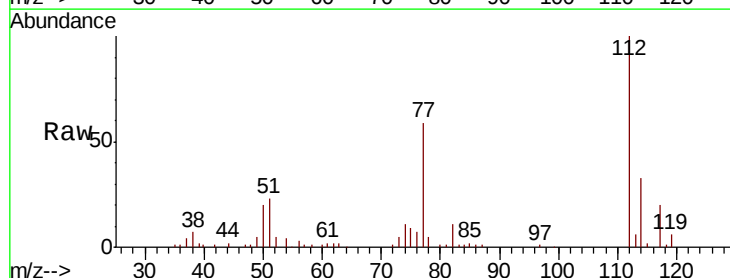


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

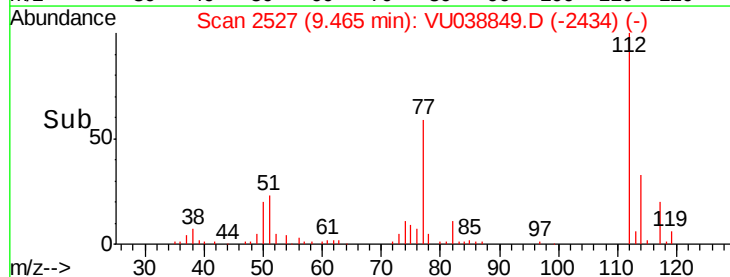
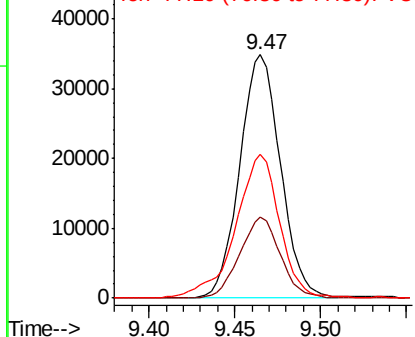


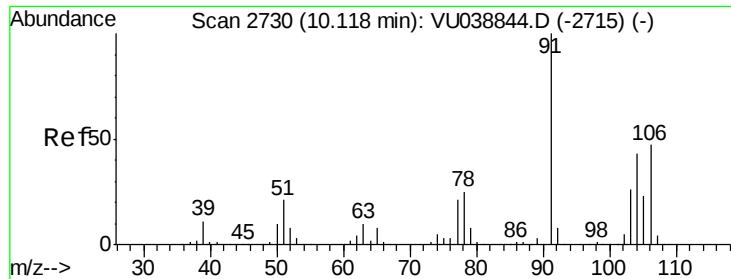
#51
Chlorobenzene
Concen: 0.980 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Tgt Ion:	112	Resp:	57291
Ion	Ratio	Lower	Upper
112	100		
114	33.3	22.5	41.9
77	59.1	49.3	73.9



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): VU0

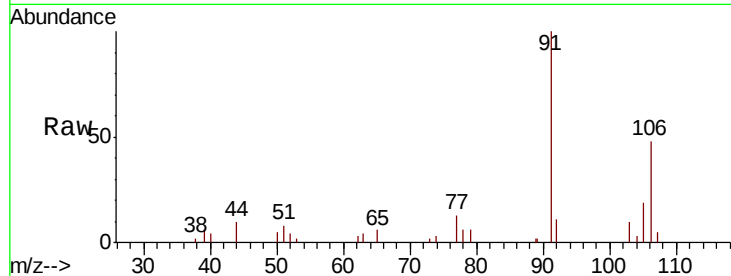




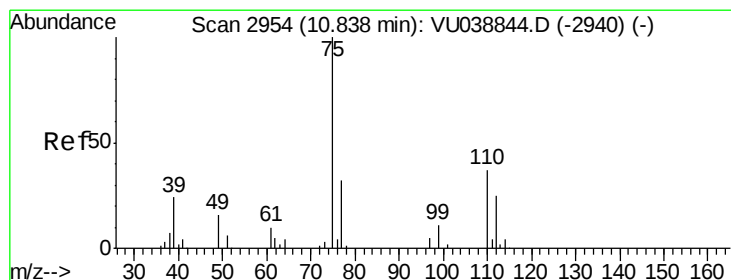
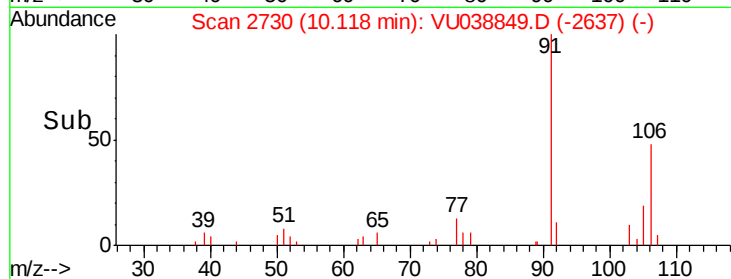
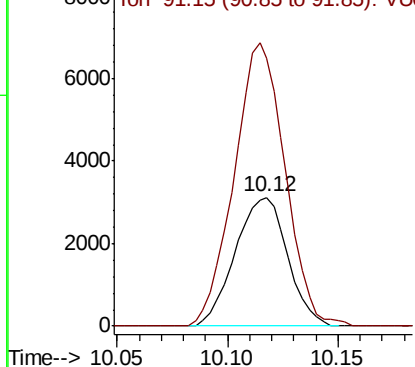
#54
o-Xylene
Concen: 0.142 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 5141
Ion Ratio Lower Upper
106 100
91 207.8 149.1 276.9

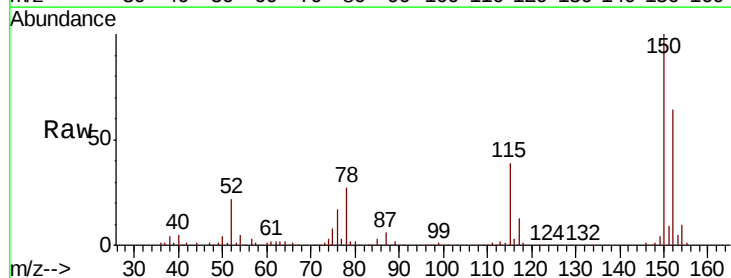


Abundance Ion 106.15 (105.85 to 106.85): VU038849.D (-2637) (-)
Ion 91.15 (90.85 to 91.85): VU038849.D (-2637) (-)

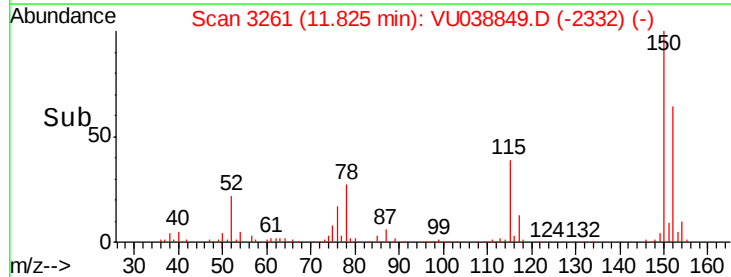
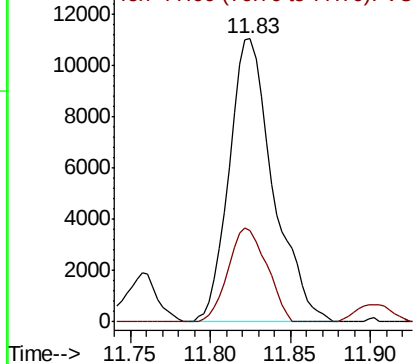


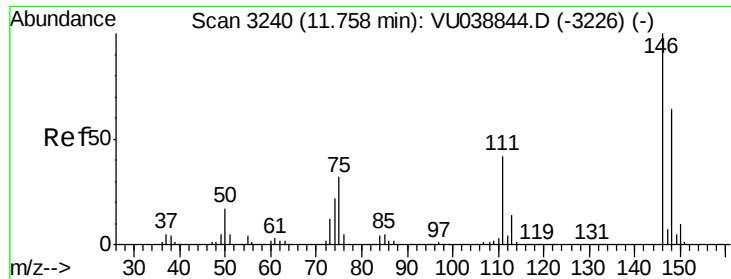
#59
1,2,3-Trichloropropane
Concen: 1.290 ug/L
RT: 11.83 min Scan# 3261
Delta R.T. 0.99 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Tgt Ion: 75 Resp: 20717
Ion Ratio Lower Upper
75 100
77 29.2 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU038849.D (-2332) (-)
Ion 77.00 (76.70 to 77.70): VU038849.D (-2332) (-)





#62

1,3-Dichlorobenzene

Concen: 0.167 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

ClientSampleId :

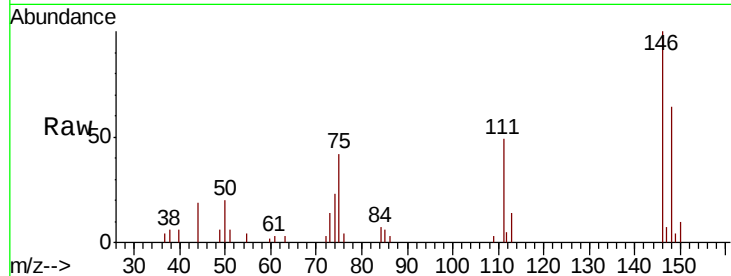
Tot Ion:146 Resp: 7333

Ion Ratio Lower Upper

146 100

111 49.2 29.5 54.9

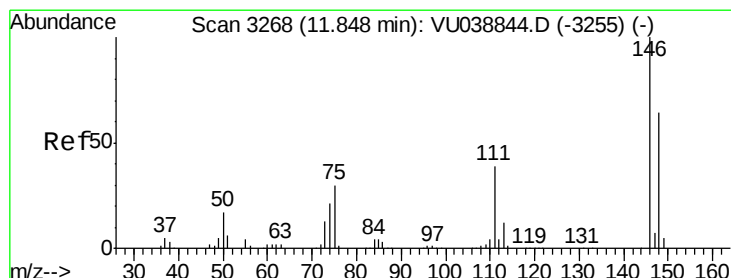
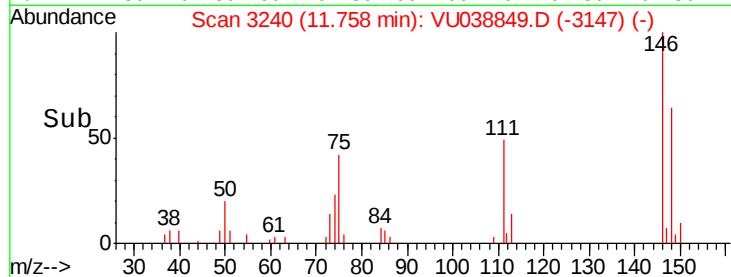
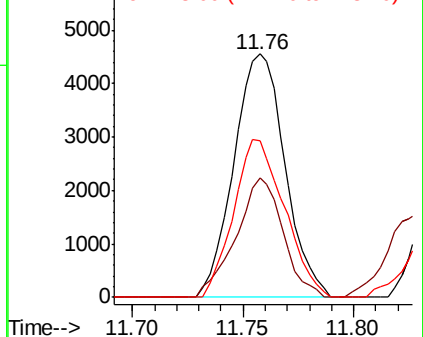
148 64.4 43.8 81.3



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: 0.236 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

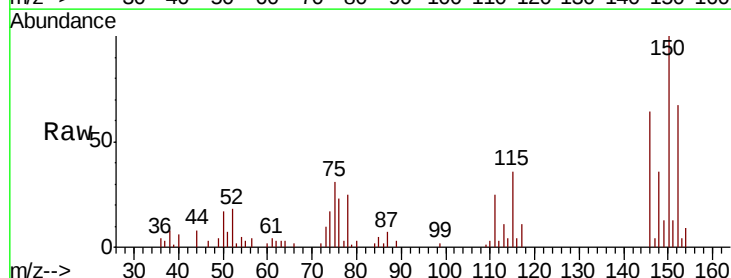
Tgt Ion:146 Resp: 10558

Ion Ratio Lower Upper

146 100

111 39.5 27.9 51.9

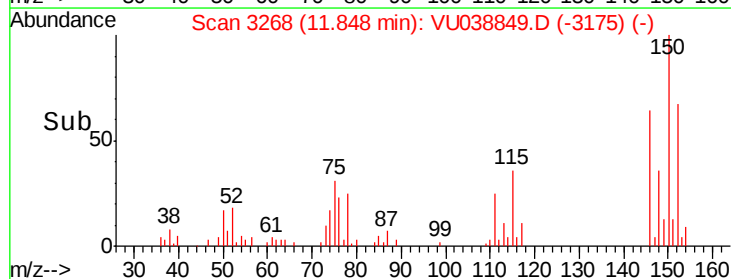
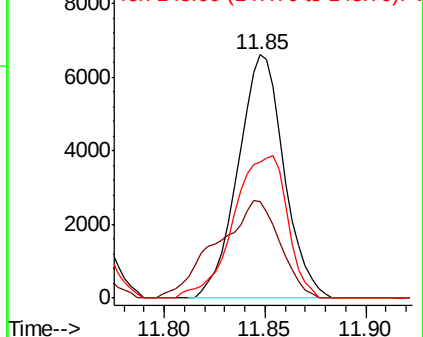
148 56.1 44.6 82.8

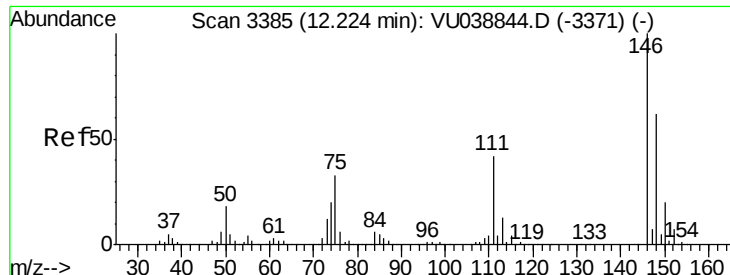


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.125 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

ClientSampled :

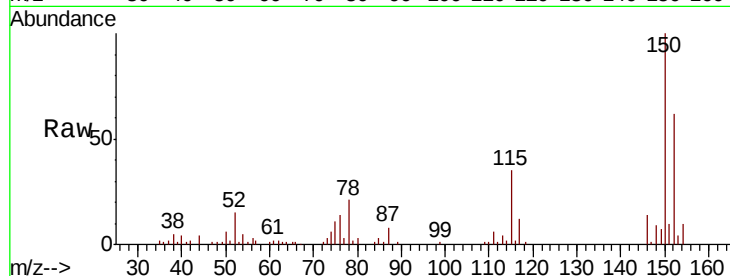
Tot Ion:146 Resp: 5170

Ion Ratio Lower Upper

146 100

111 46.0 35.6 53.4

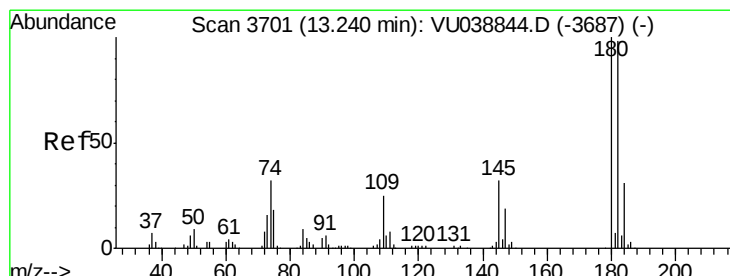
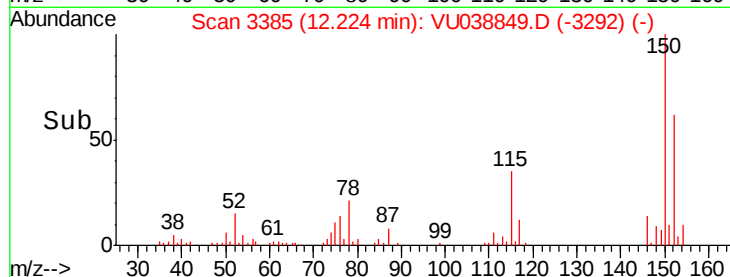
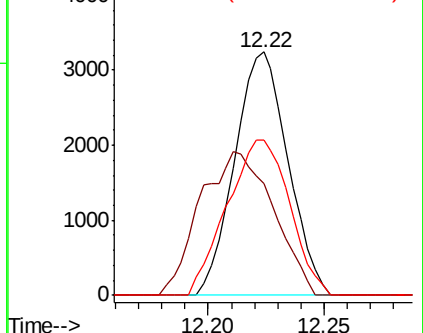
148 64.0 51.8 77.8



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



#67

1,3,5-Trichlorobenzene

Concen: 0.181 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. 0.63 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Tgt Ion:180 Resp: 5820

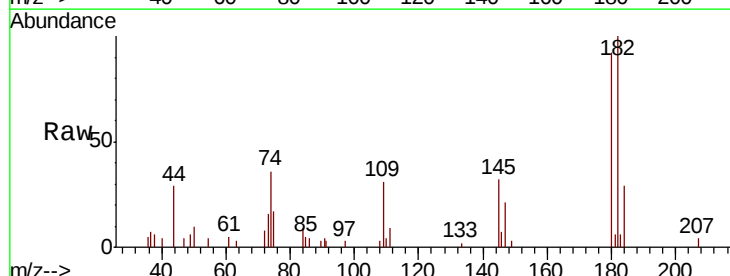
Ion Ratio Lower Upper

180 100

182 107.1 75.0 112.4

184 33.8 23.7 35.5

145 35.4 24.6 36.8

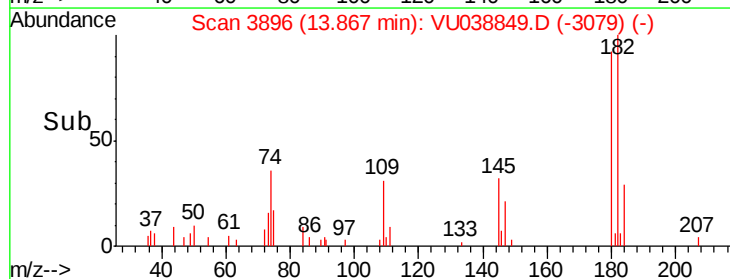
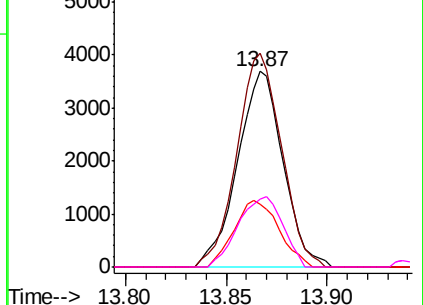


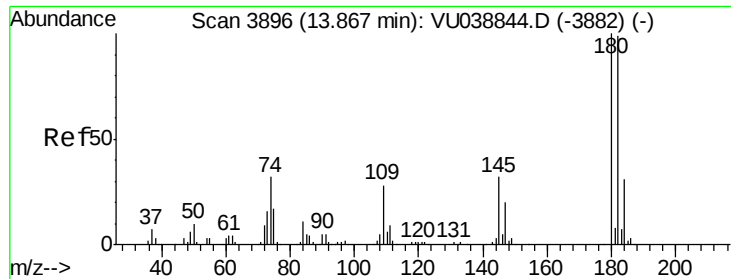
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

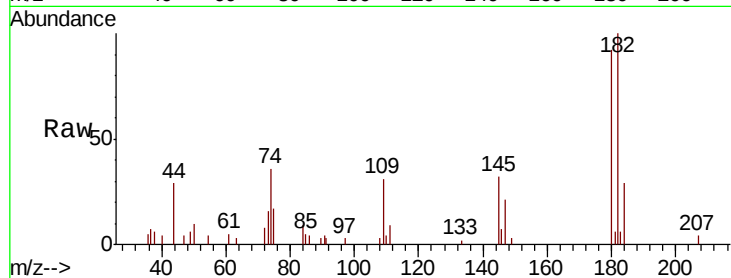




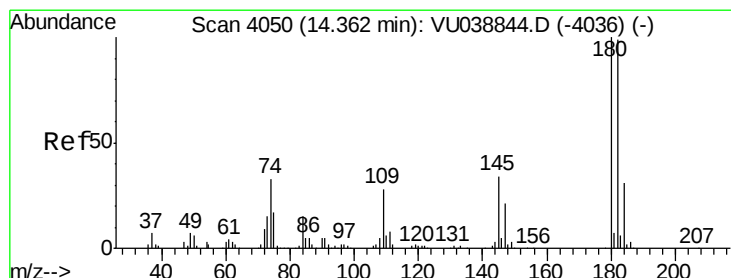
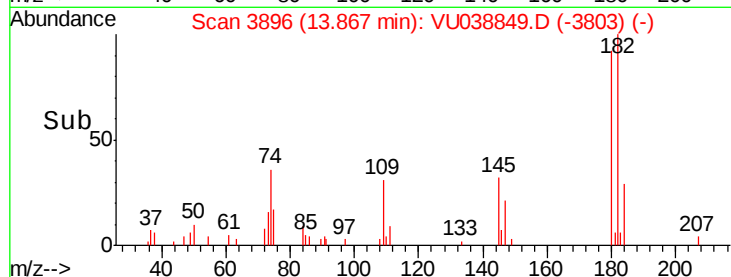
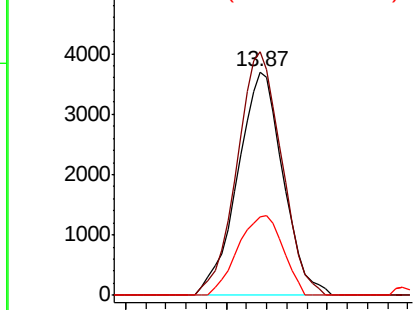
#68
 1,2,4-trichlorobenzene
 Concen: 0.205 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 5820
 Ion Ratio Lower Upper
 180 100
 182 107.1 78.5 117.7
 145 35.4 25.0 37.4

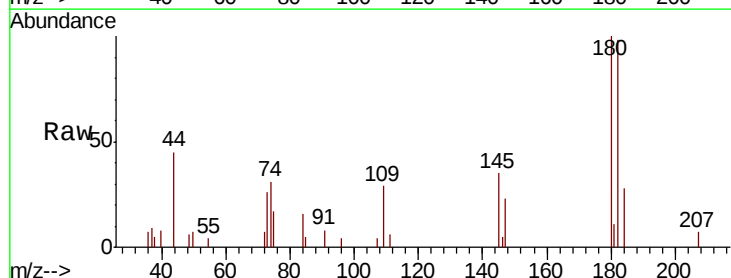


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V



#70
 1,2,3-Trichlorobenzene
 Concen: 0.167 ug/L
 RT: 14.37 min Scan# 4051
 Delta R.T. 0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Tgt Ion:180 Resp: 4336
 Ion Ratio Lower Upper
 180 100
 182 106.7 76.1 114.1
 145 36.6 27.8 41.6



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

