

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037773.D
 Acq On : 17 Apr 2020 14:15
 Operator : JC/MD
 Sample : L2296-06RE
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 18 01:23:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 18 01:19:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	274351	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	262251	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	129742	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	86123	4.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.00%
7) Chloroethane-d5	1.93	69	78630	4.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.80%
11) 1,1-Dichloroethene-d2	2.59	63	120345	3.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.20%
20) 2-Butanone-d5	4.66	46	285579	50.09	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.18%
24) Chloroform-d	5.10	84	152507	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.74	65	93064	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.76	84	326173	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	6.72	67	110469	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.92	98	295661	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	8.20	79	46601	4.50	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.00%
46) 2-Hexanone-d5	8.65	63	247468	46.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.34%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	85558	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.00%
64) 1,2-Dichlorobenzene-d4	12.21	152	108049	4.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.40%

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	48382	1.674	ug/L 92
8) Chloroethane	1.95	64	1221	0.072	ug/L # 76
12) 1,1-Dichloroethene	2.60	96	6810	0.360	ug/L # 1
13) Acetone	2.66	43	3476	0.925	ug/L 83
17) Methyl tert-butyl Ether	3.41	73	6533	0.119	ug/L # 1
18) trans-1,2-Dichloroethene	3.39	96	5076	0.247	ug/L 99
19) 1,1-Dichloroethane	3.91	63	137976	3.475	ug/L 100
22) cis-1,2-Dichloroethene	4.71	96	193976	8.746	ug/L 96
25) Chloroform	5.13	83	78845	2.091	ug/L 100
27) 1,2-Dichloroethane	5.83	62	13963	0.548	ug/L 100
29) 1,1,1-Trichloroethane	5.36	97	46898	1.474	ug/L 99
30) Cyclohexane	5.42	56	9729	0.247	ug/L 98
31) Carbon tetrachloride	5.35	117	5843	0.230	ug/L 94
33) Benzene	5.81	78	33929	0.392	ug/L 100
34) Trichloroethene	6.57	95	9412	0.442	ug/L 96
35) Methylcyclohexane	6.72	83	24638	0.660	ug/L # 16
37) 1,2-Dichloropropane	6.72	63	12442	0.541	ug/L # 87

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QLast Update : Sat Apr 18 01:19:54 2020
Response via : Initial Calibration

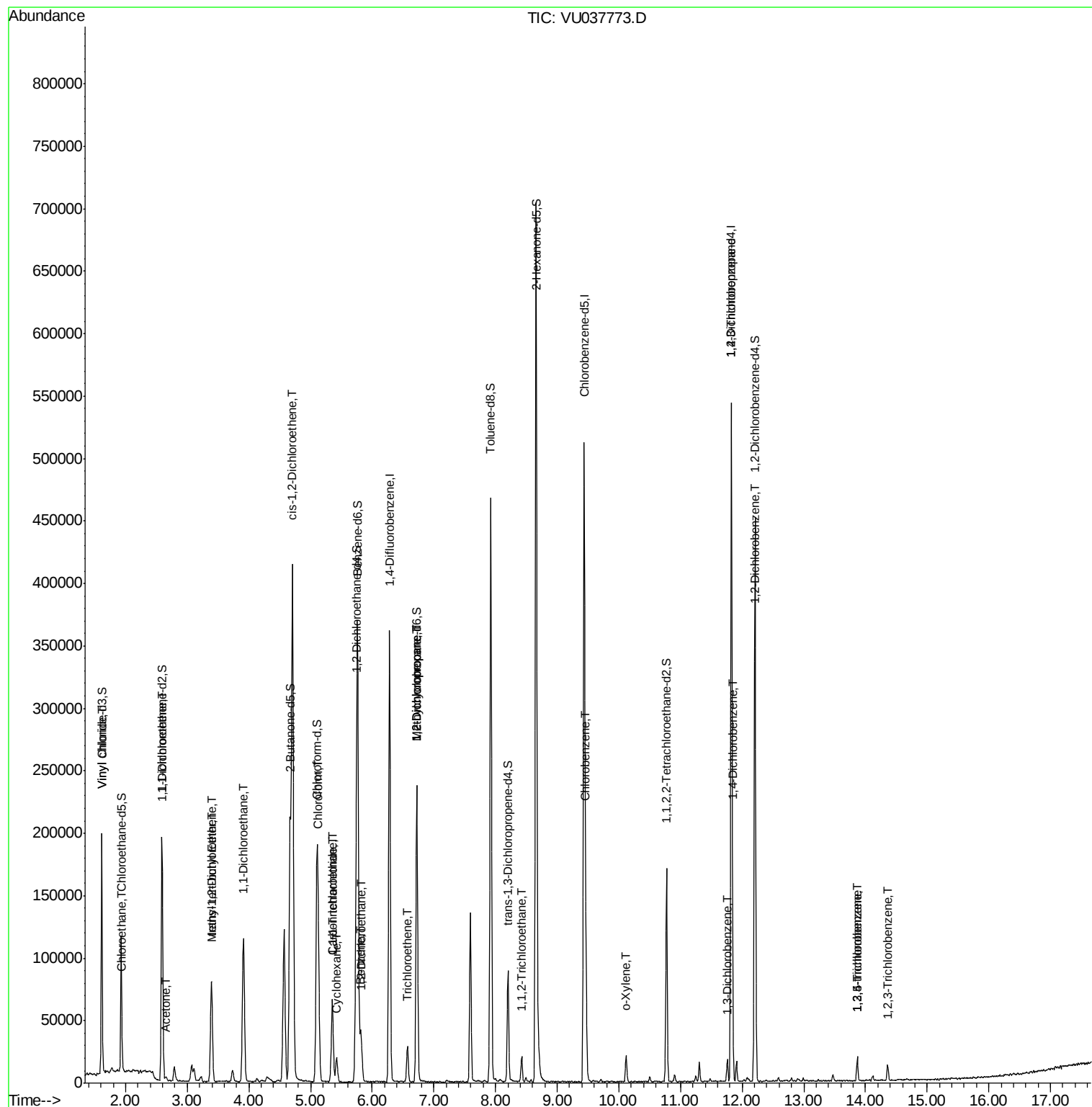
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.42	97	6065	0.392	ug/L	90
51) Chlorobenzene	9.47	112	55924	1.010	ug/L	98
54) o-Xylene	10.12	106	5146	0.137	ug/L	82
59) 1,2,3-Trichloropropane	11.83	75	21709	1.443	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	6979	0.161	ug/L	92
63) 1,4-Dichlorobenzene	11.85	146	10309	0.237	ug/L	97
65) 1,2-Dichlorobenzene	12.22	146	4785	0.117	ug/L	95
67) 1,3,5-Trichlorobenzene	13.87	180	5417	0.170	ug/L	94
68) 1,2,4-trichlorobenzene	13.87	180	5417	0.185	ug/L	94
70) 1,2,3-Trichlorobenzene	14.36	180	3914	0.150	ug/L	95

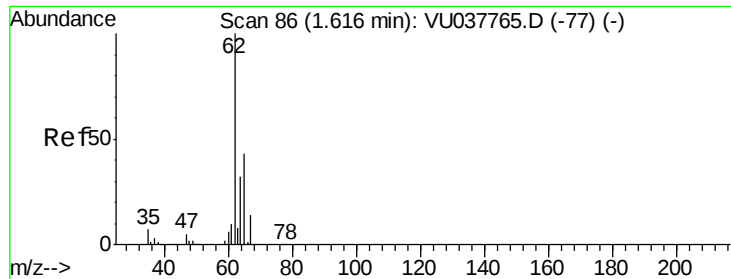
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.674 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :

MSVOA_U

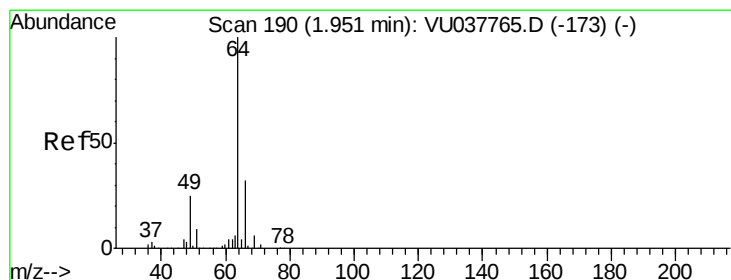
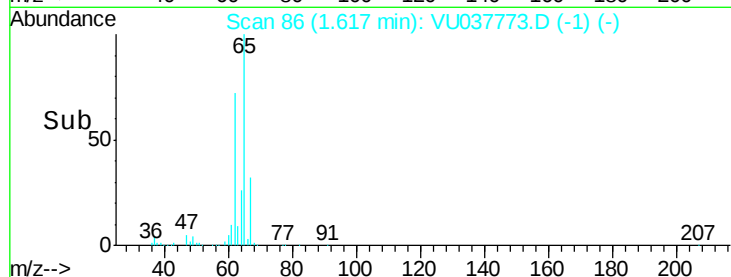
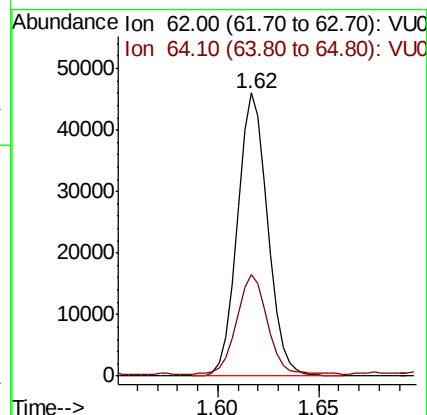
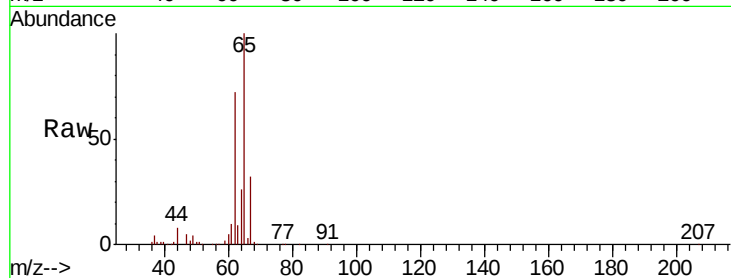
ClientSampled :

Tot Ion: 62 Resp: 48382

Ion Ratio Lower Upper

62 100

64 35.9 22.1 41.1



#8

Chloroethane

Concen: 0.072 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037773.D

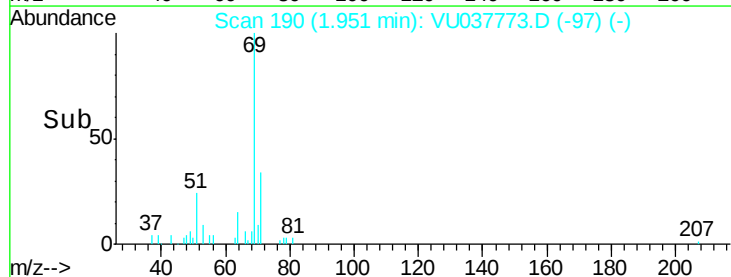
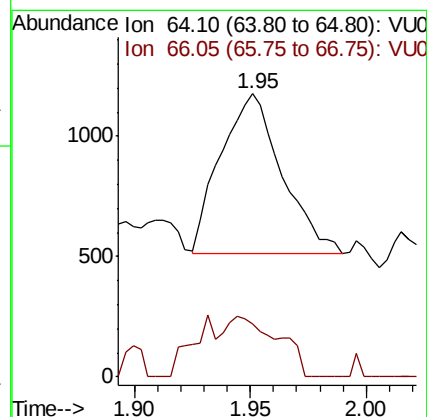
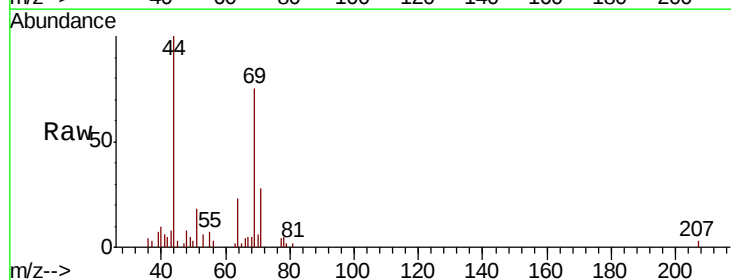
Acq: 17 Apr 2020 14:15

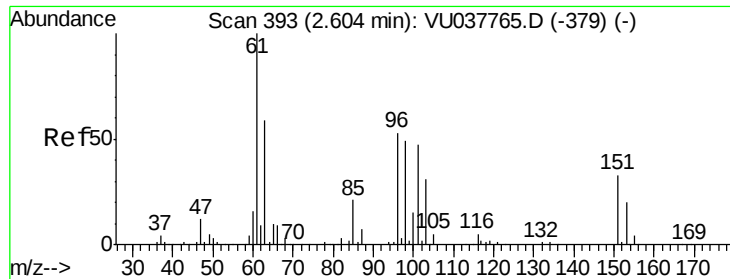
Tgt Ion: 64 Resp: 1221

Ion Ratio Lower Upper

64 100

66 18.5 22.3 41.5#





#12

1,1-Dichloroethene

Concen: 0.360 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :
MSVOA_U
ClientSampleId :

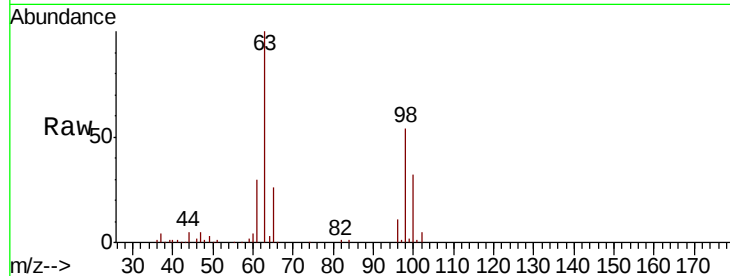
Tot Ion: 96 Resp: 6810

Ion Ratio Lower Upper

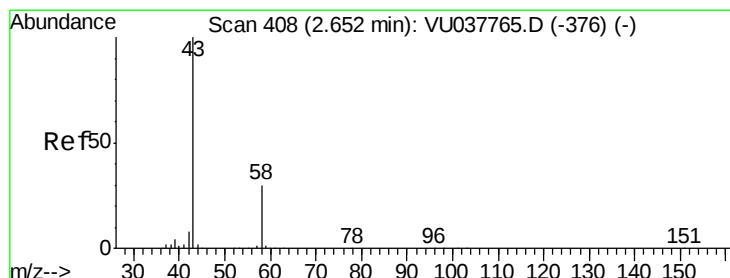
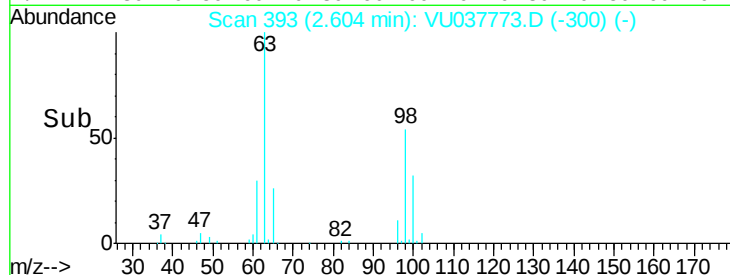
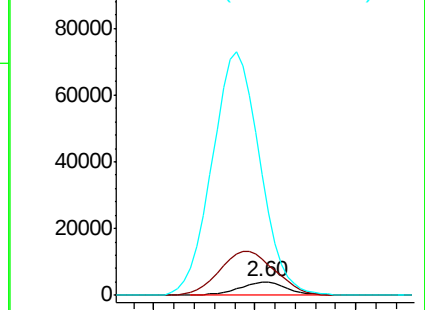
96 100

61 261.8 127.7 237.3#

63 877.6 85.0 157.8#



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 0.925 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU037773.D

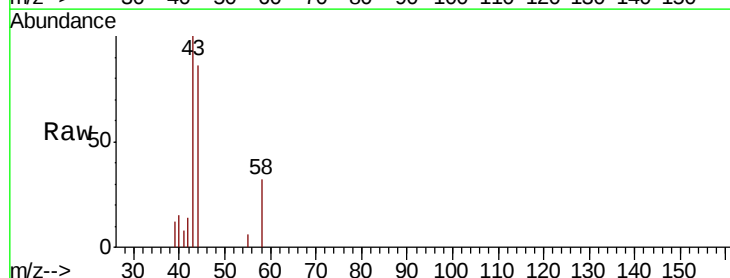
Acq: 17 Apr 2020 14:15

Tgt Ion: 43 Resp: 3476

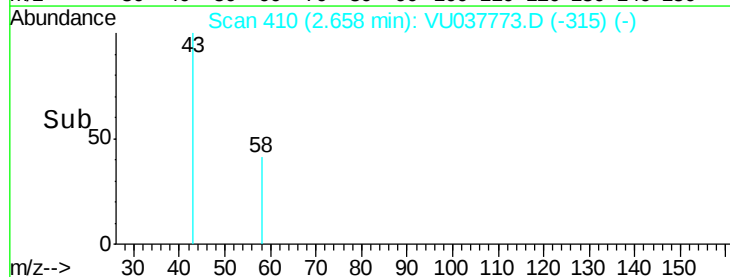
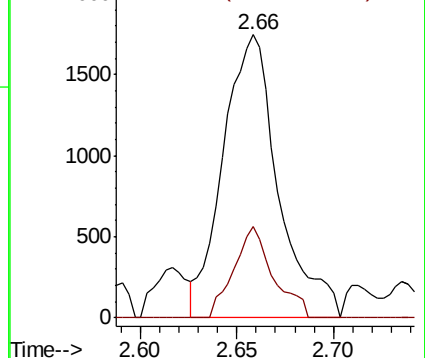
Ion Ratio Lower Upper

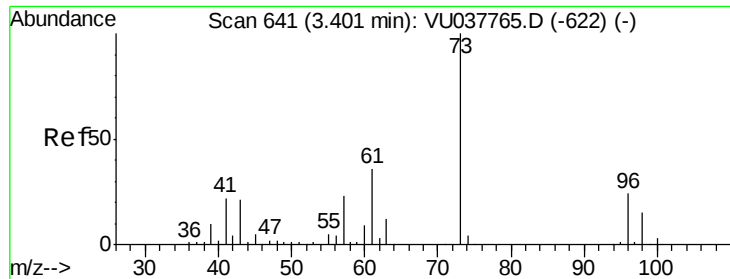
43 100

58 23.0 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0

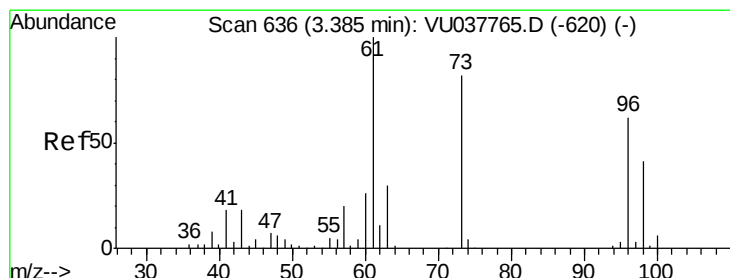
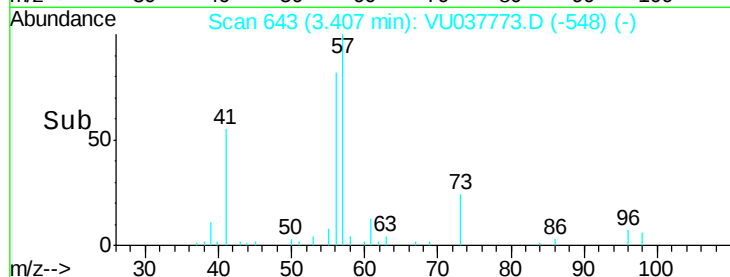
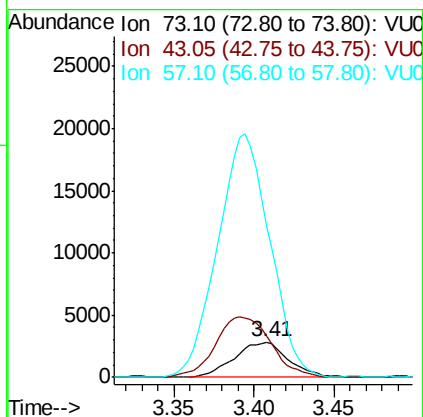
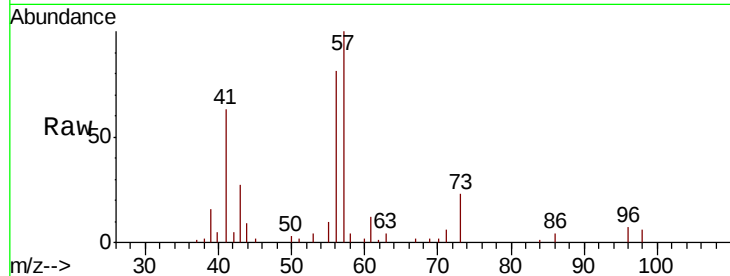




#17
Methvl tert-butvl Ether
Concen: 0.119 ug/L
RT: 3.41 min Scan# 643
Delta R.T. 0.01 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

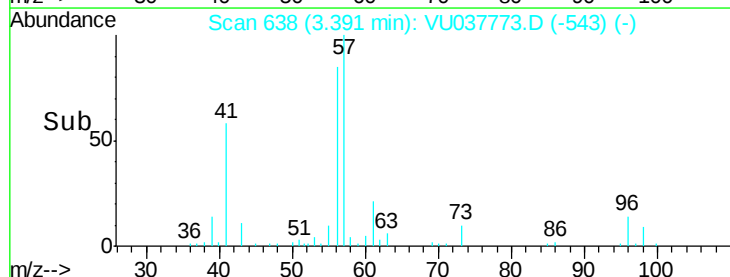
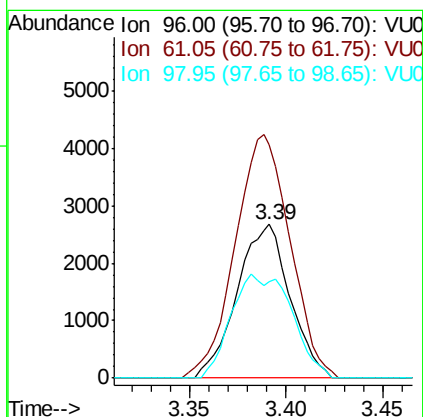
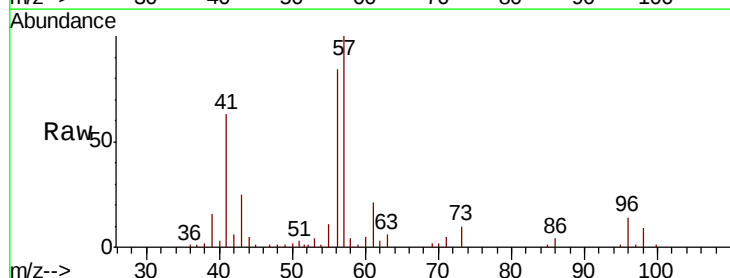
Instrument :
MSVOA_U
ClientSampleId :

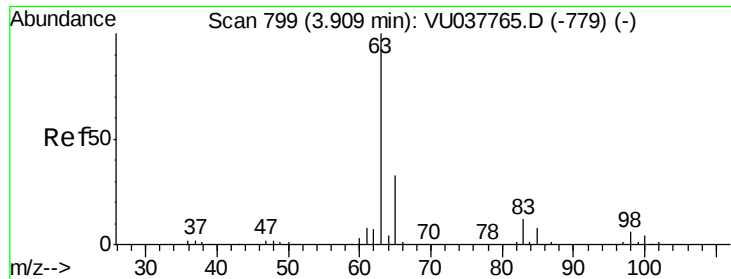
Tot Ion: 73 Resp: 6533
Ion Ratio Lower Upper
73 100
43 177.6 16.4 24.6#
57 668.6 18.4 27.6#



#18
trans-1,2-Dichloroethene
Concen: 0.247 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.01 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Tgt Ion: 96 Resp: 5076
Ion Ratio Lower Upper
96 100
61 152.0 106.7 198.3
98 62.5 44.3 82.3

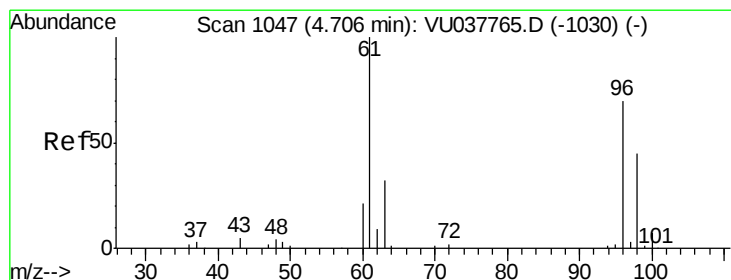
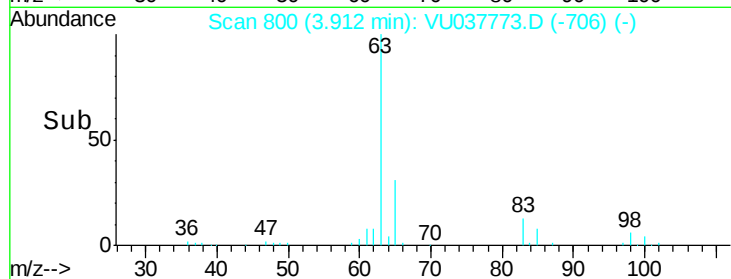
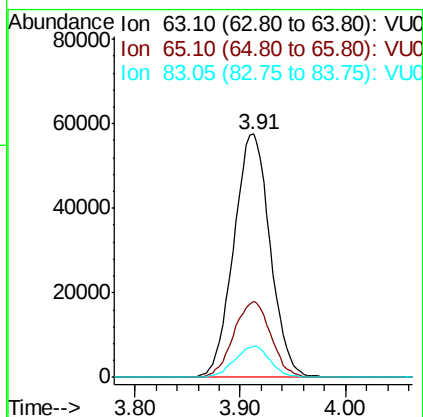
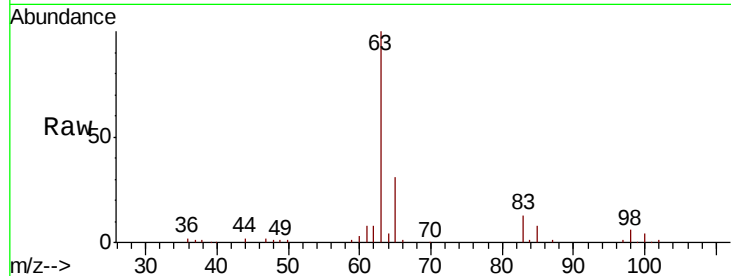




#19
 1,1-Dichloroethane
 Concen: 3.475 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

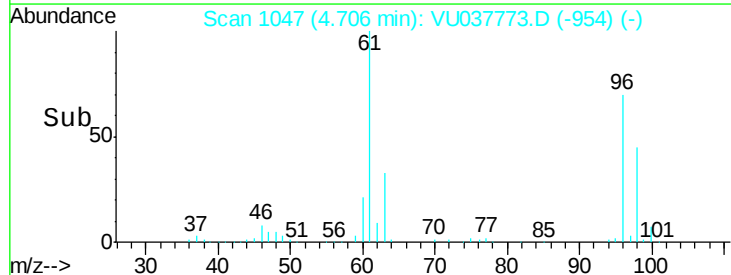
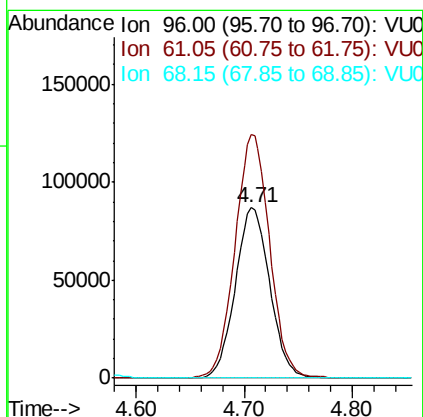
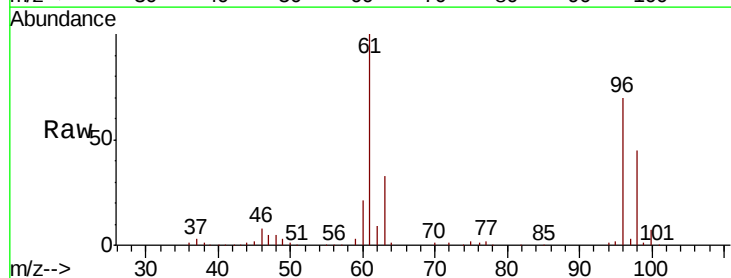
Instrument :
 MSVOA_U
 ClientSampleId :

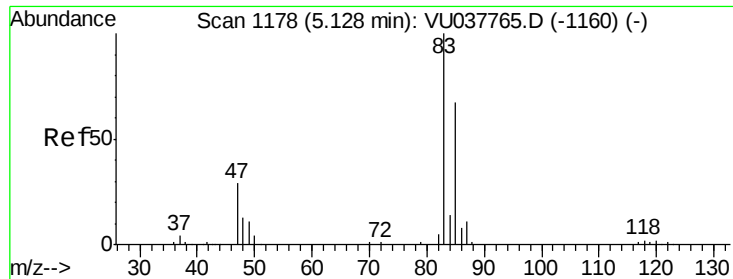
Tot Ion: 63 Resp: 137976
 Ion Ratio Lower Upper
 63 100
 65 31.1 21.6 40.2
 83 12.6 8.6 16.0



#22
 cis-1,2-Dichloroethene
 Concen: 8.746 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion: 96 Resp: 193976
 Ion Ratio Lower Upper
 96 100
 61 143.0 97.0 180.2
 68 0.0 0.0 0.0

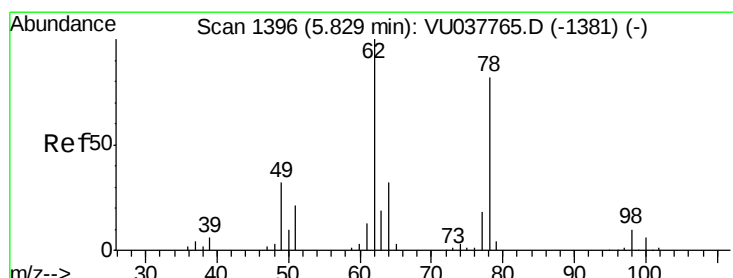
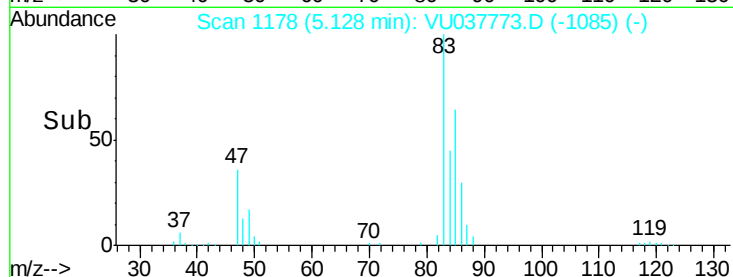
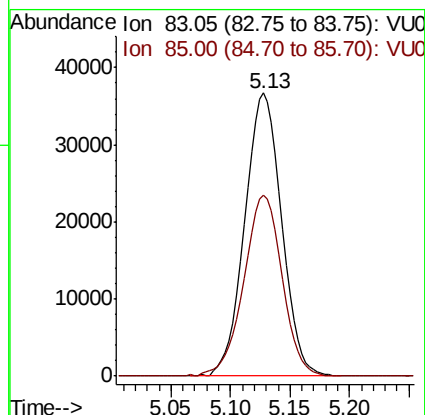
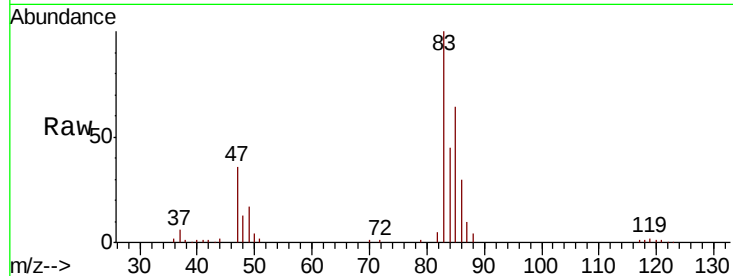




#25
Chloroform
Concen: 2.091 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

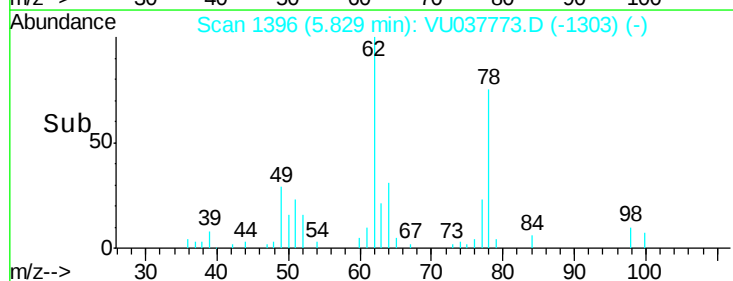
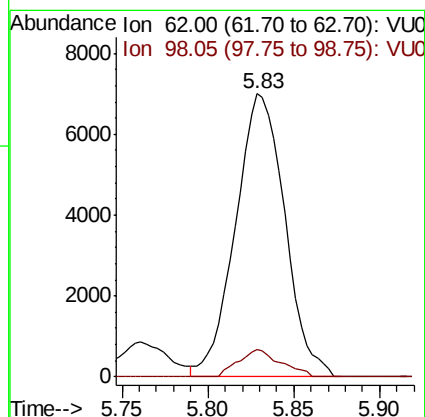
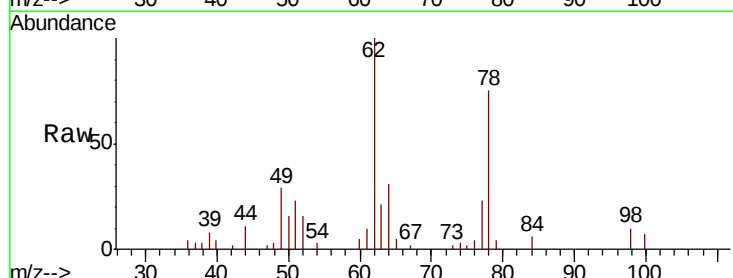
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ClientSampleId :

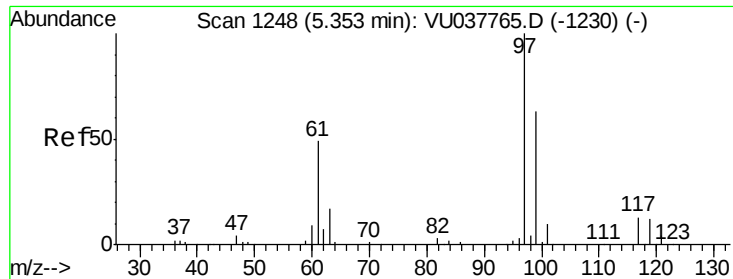
Tot Ion: 83 Resp: 78845
Ion Ratio Lower Upper
83 100
85 63.8 44.9 83.3



#27
1,2-Dichloroethane
Concen: 0.548 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Tgt Ion: 62 Resp: 13963
Ion Ratio Lower Upper
62 100
98 9.6 7.6 11.4

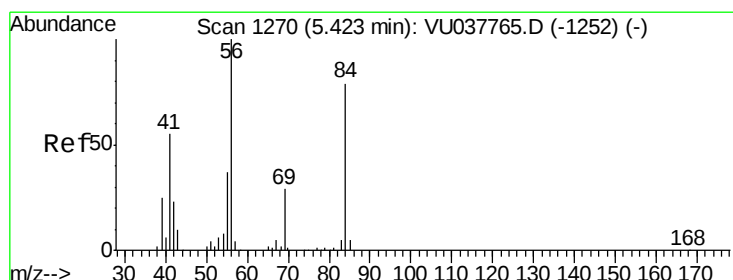
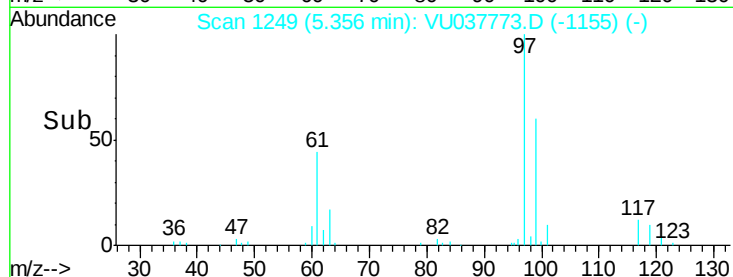
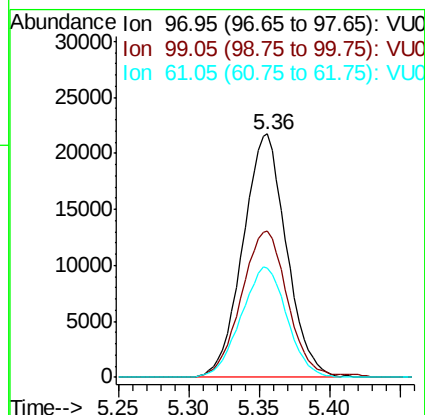
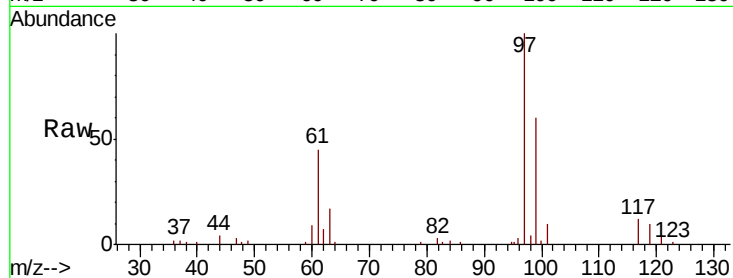




#29
1,1,1-Trichloroethane
Concen: 1.474 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

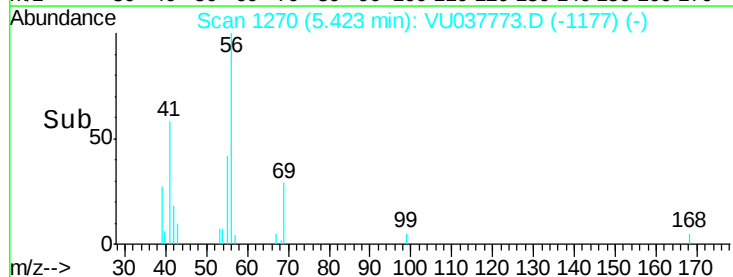
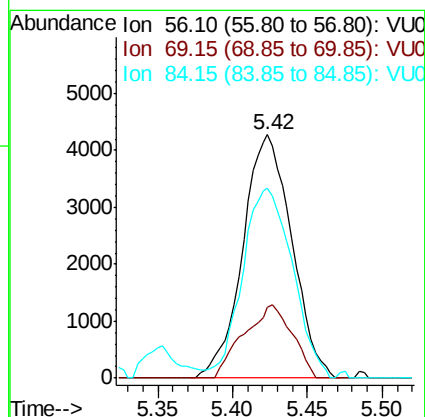
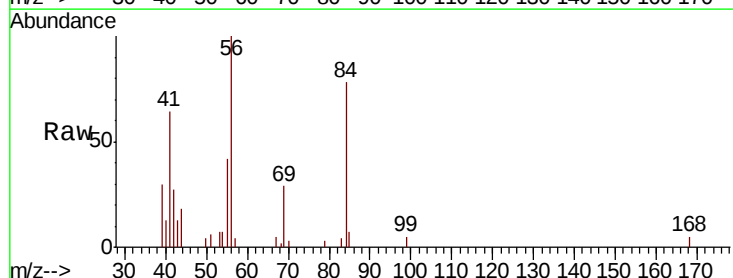
Instrument :
MSVOA_U
ClientSampled :

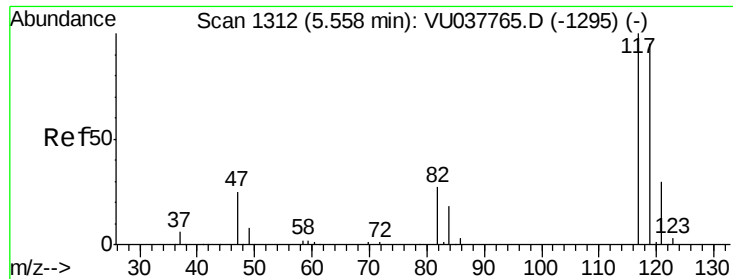
Tot Ion: 97 Resp: 46898
Ion Ratio Lower Upper
97 100
99 64.0 52.0 78.0
61 47.8 37.8 56.8



#30
Cyclohexane
Concen: 0.247 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Tgt Ion: 56 Resp: 9729
Ion Ratio Lower Upper
56 100
69 29.7 23.9 35.9
84 79.7 65.6 98.4





#31

Carbon tetrachloride

Concen: 0.230 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.21 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :

MSVOA_U

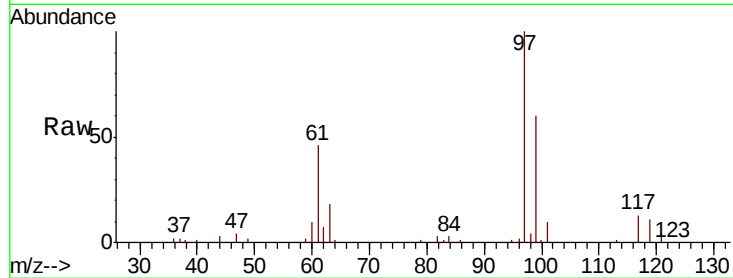
ClientSampleId :

Tot Ion:117 Resp: 5843

Ion Ratio Lower Upper

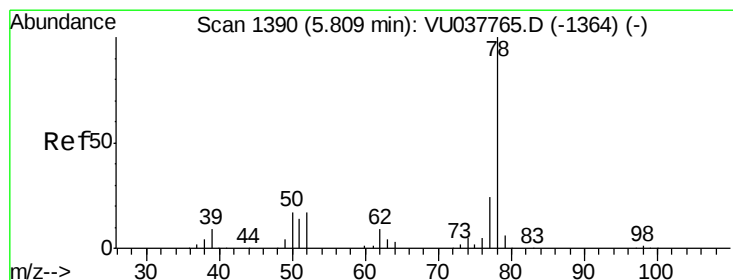
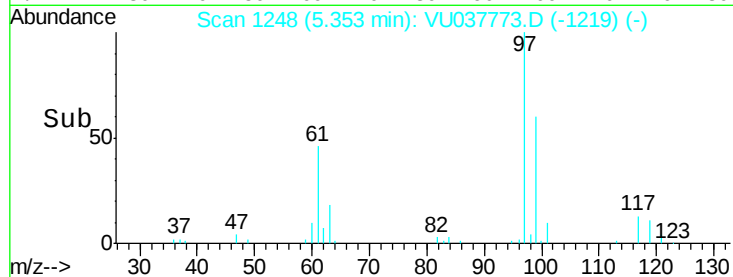
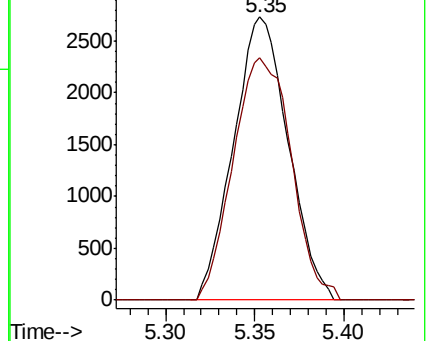
117 100

119 91.0 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.392 ug/L

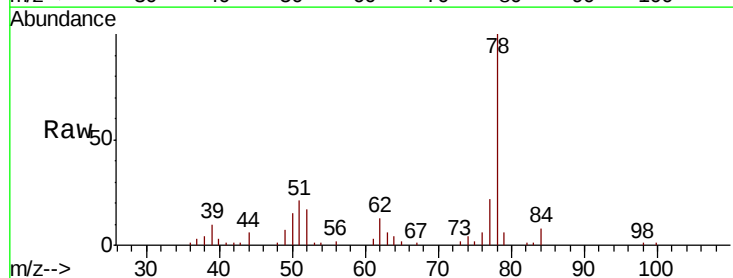
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

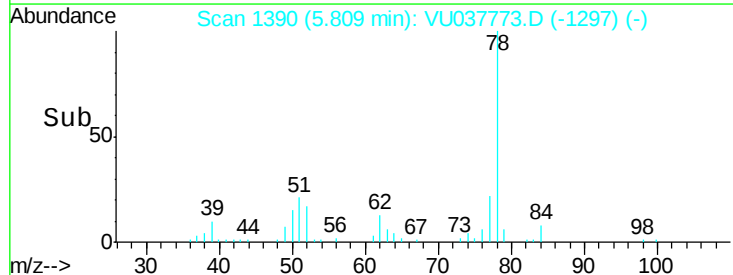
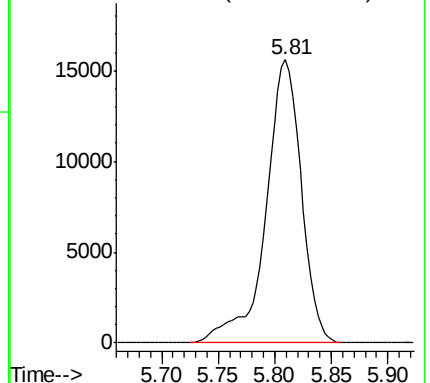
Lab File: VU037773.D

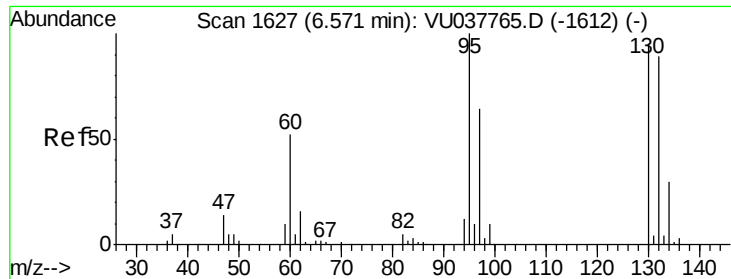
Acq: 17 Apr 2020 14:15

Tgt Ion: 78 Resp: 33929



Abundance Ion 78.10 (77.80 to 78.80): VU0

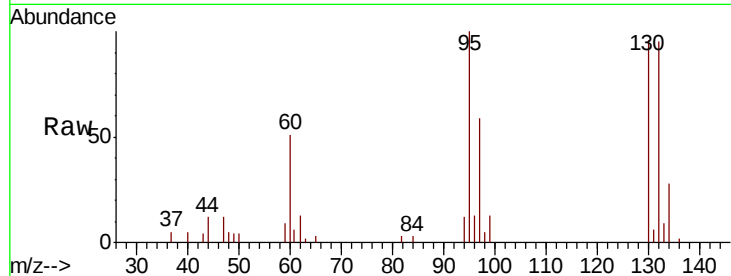




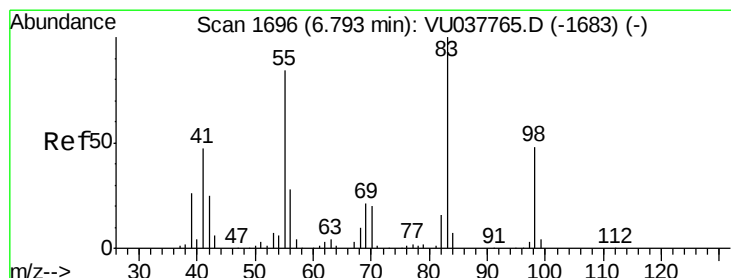
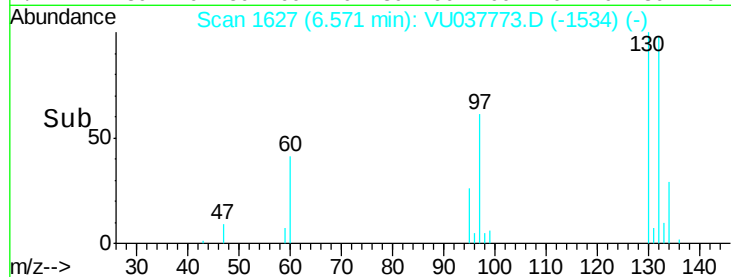
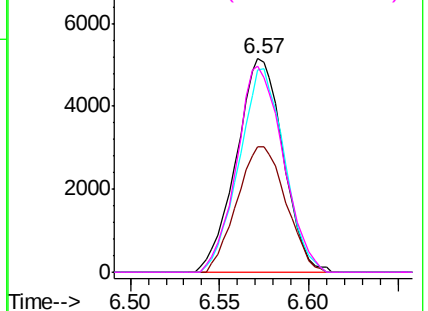
#34
 Trichloroethene
 Concen: 0.442 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 9412
 Ion Ratio Lower Upper
 95 100
 97 58.9 45.4 84.2
 132 94.7 63.7 118.3
 130 96.5 68.7 127.5

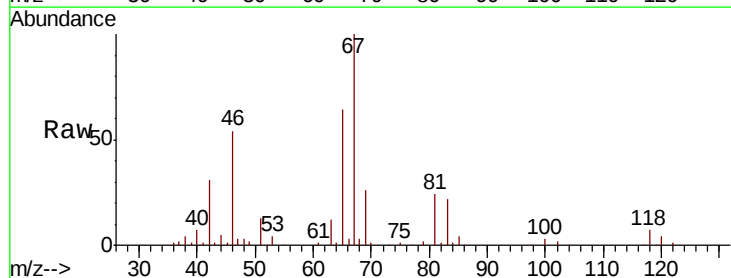


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

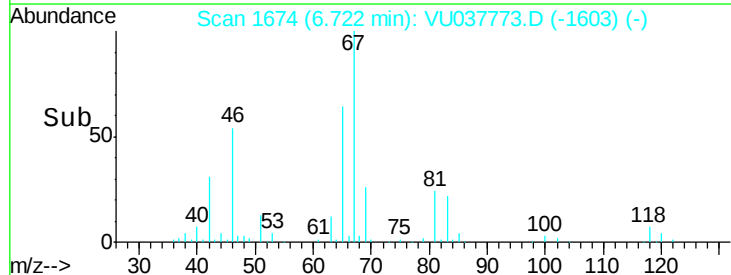
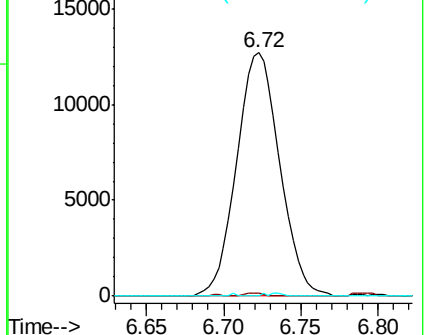


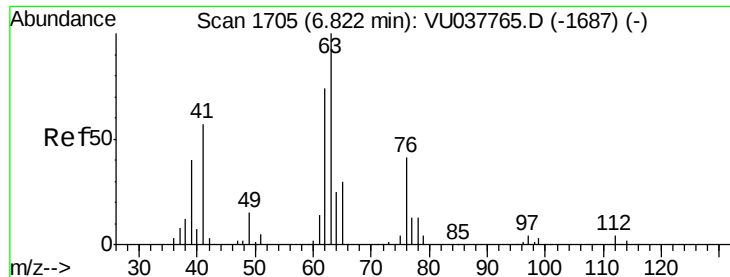
#35
 Methylcyclohexane
 Concen: 0.660 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion: 83 Resp: 24638
 Ion Ratio Lower Upper
 83 100
 55 0.5 65.5 98.3#
 98 0.1 38.2 57.4#



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

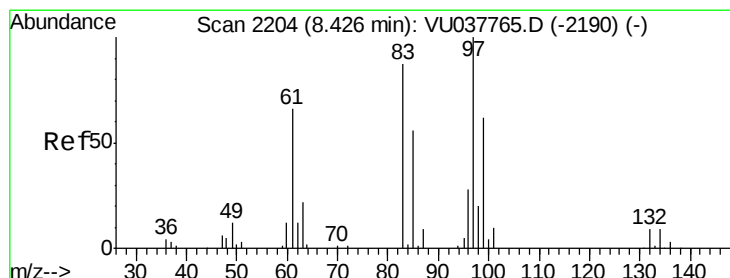
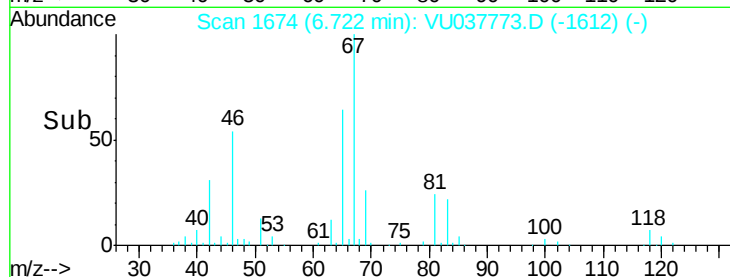
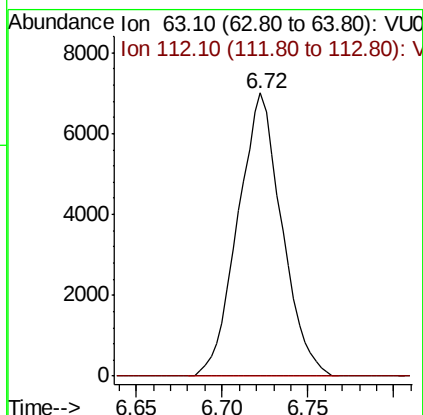
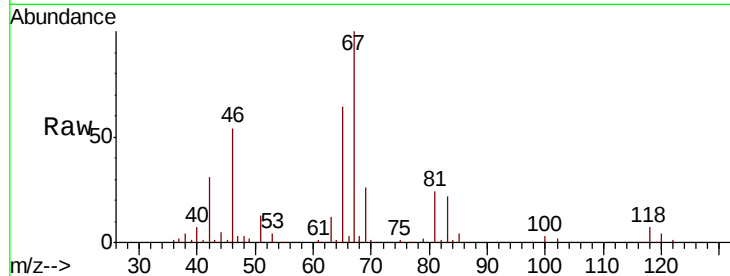




#37
 1,2-Dichloropropane
 Concen: 0.541 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

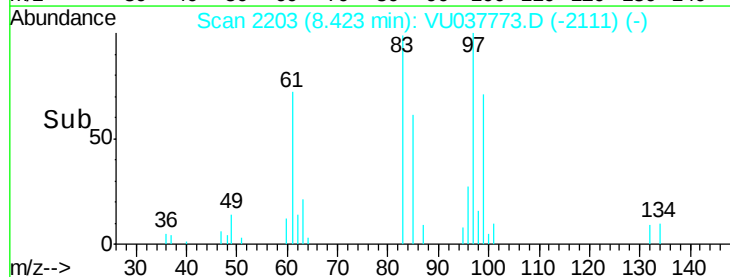
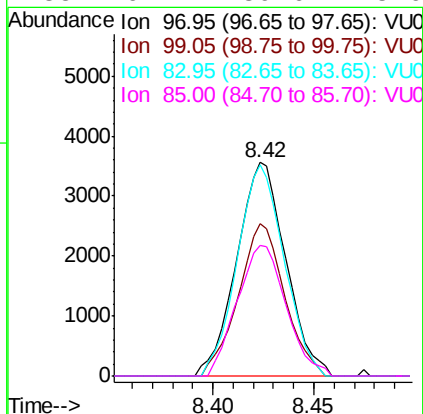
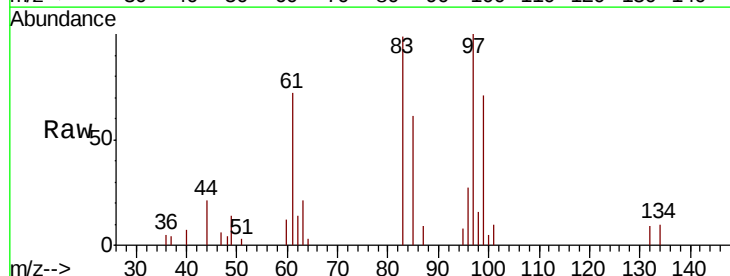
Instrument :
 MSVOA_U
 ClientSampleId :

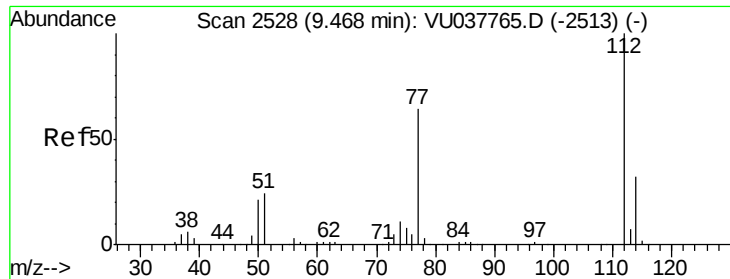
Tot Ion: 63 Resp: 12442
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#45
 1,1,2-Trichloroethane
 Concen: 0.392 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion: 97 Resp: 6065
 Ion Ratio Lower Upper
 97 100
 99 71.4 43.1 80.1
 83 98.7 62.4 116.0
 85 61.4 39.6 73.6





#51

Chlorobenzene

Concen: 1.010 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :

MSVOA_U

ClientSampleId :

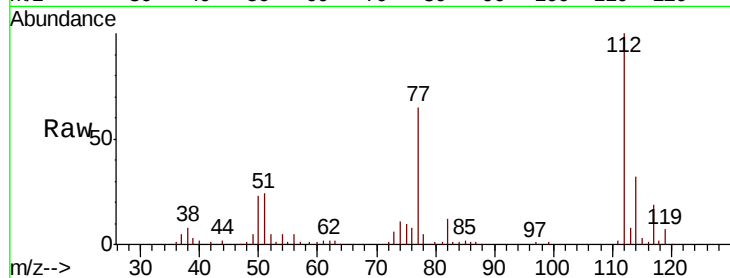
Tot Ion:112 Resp: 55924

Ion Ratio Lower Upper

112 100

114 31.6 22.6 42.0

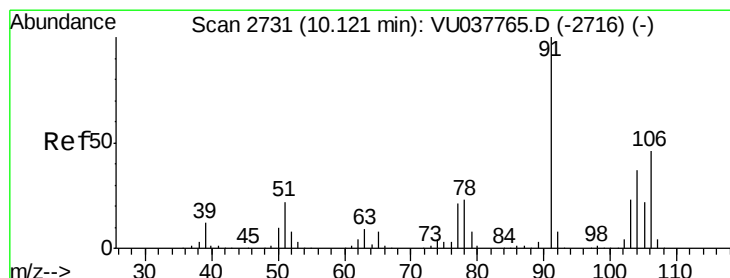
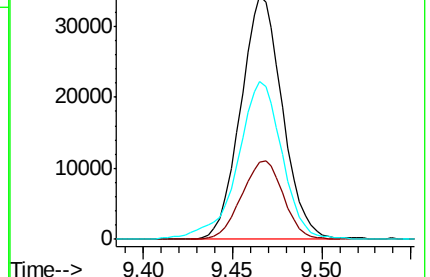
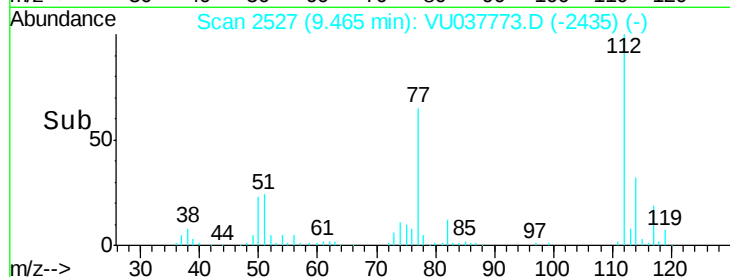
77 64.6 50.2 75.4



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: 0.137 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037773.D

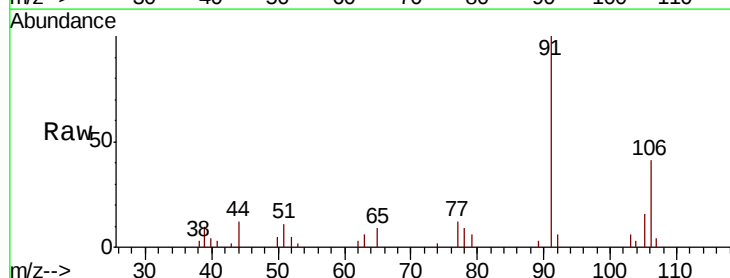
Acq: 17 Apr 2020 14:15

Tgt Ion:106 Resp: 5146

Ion Ratio Lower Upper

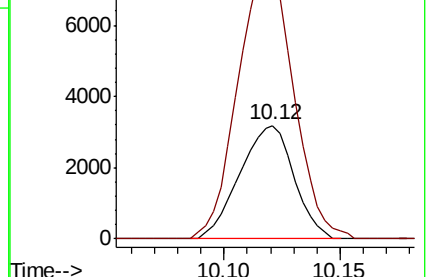
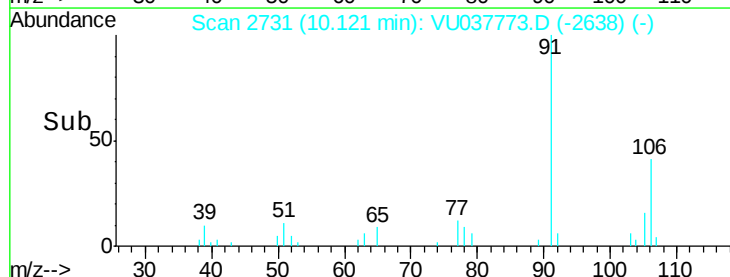
106 100

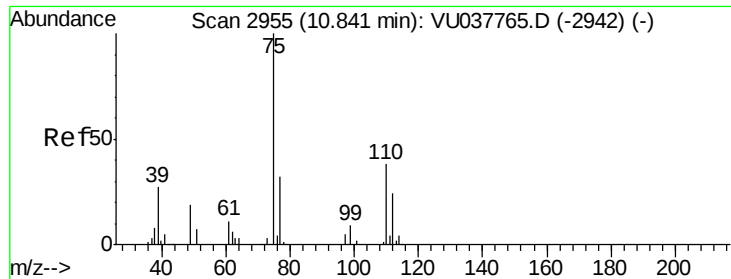
91 243.7 151.1 280.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

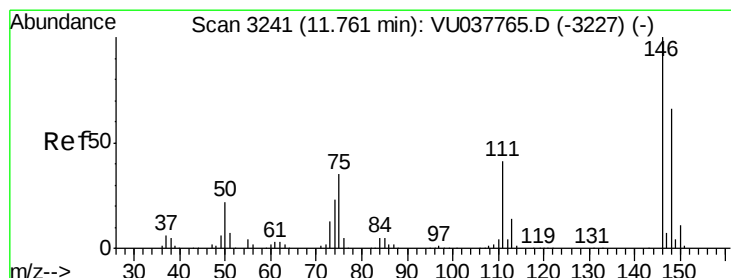
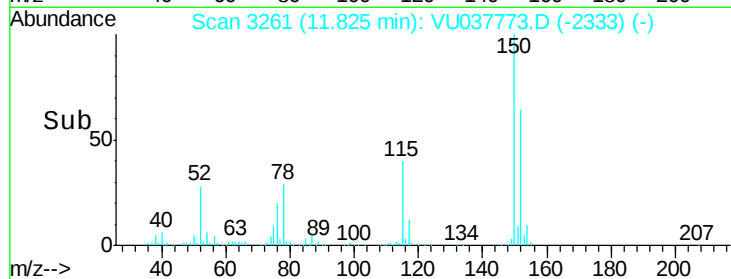
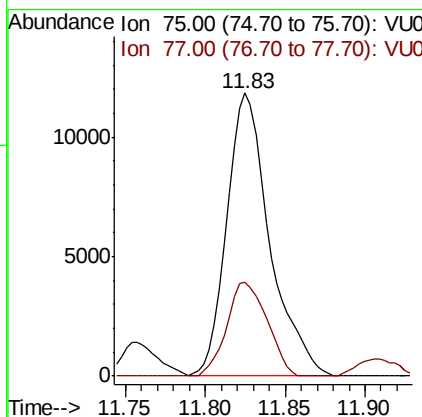
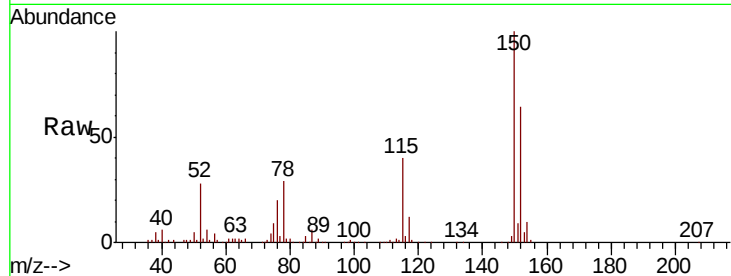




#59
 1,2,3-Trichloropropane
 Concen: 1.443 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.98 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

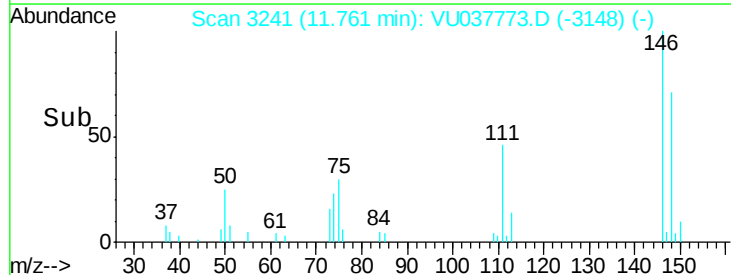
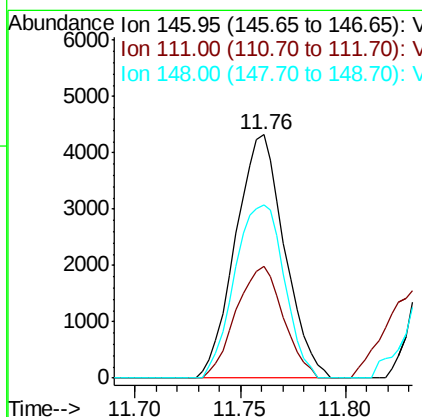
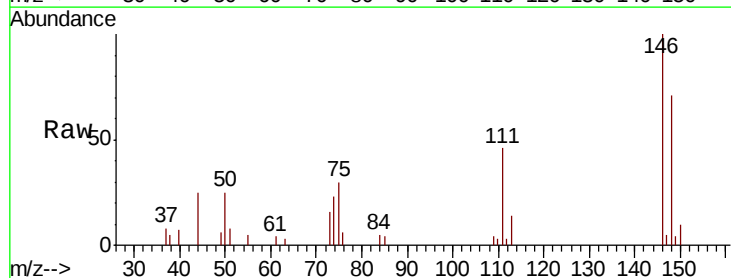
Instrument :
 MSVOA_U
 ClientSampled :

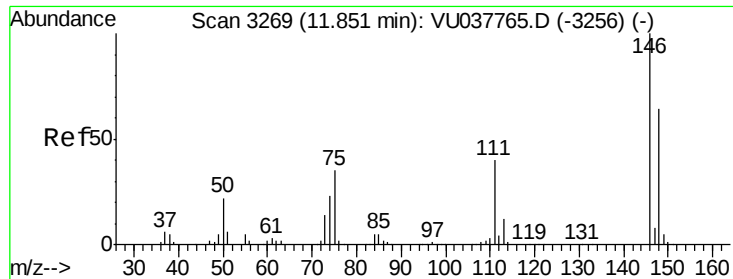
Tot Ion: 75 Resp: 21709
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.4 38.2



#62
 1,3-Dichlorobenzene
 Concen: 0.161 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion: 146 Resp: 6979
 Ion Ratio Lower Upper
 146 100
 111 45.8 29.8 55.3
 148 71.0 44.5 82.7





#63

1,4-Dichlorobenzene

Concen: 0.237 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :

MSVOA_U

ClientSampled :

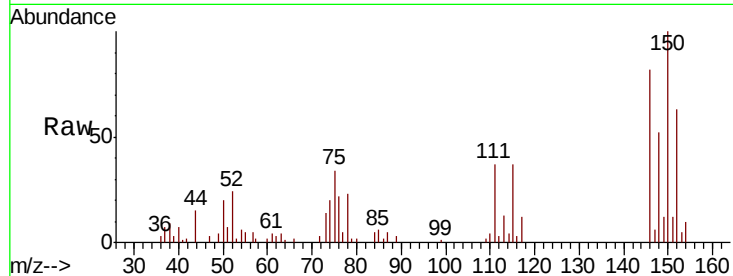
Tot Ion:146 Resp: 10309

Ion Ratio Lower Upper

146 100

111 45.6 28.4 52.8

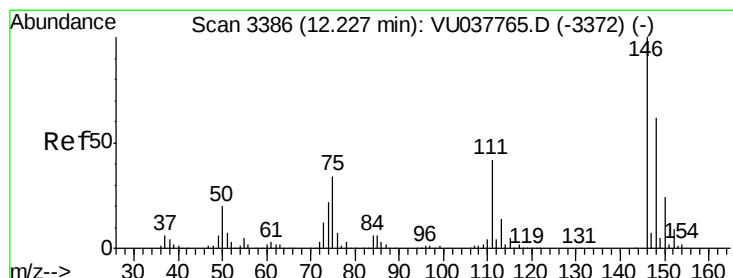
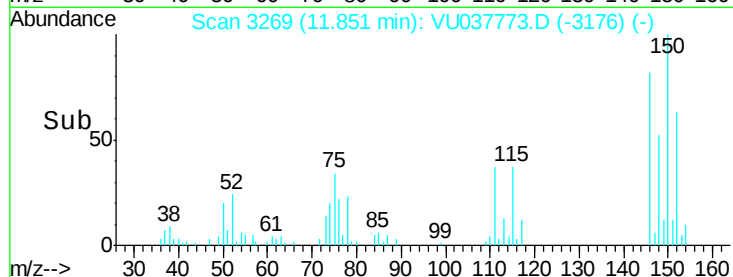
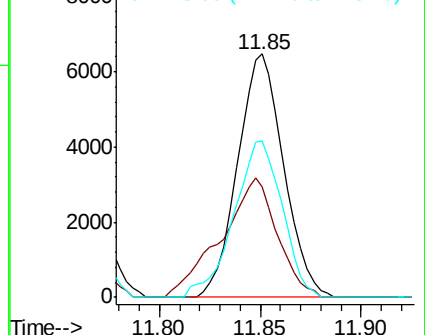
148 64.1 44.9 83.3



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



#65

1,2-Dichlorobenzene

Concen: 0.117 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

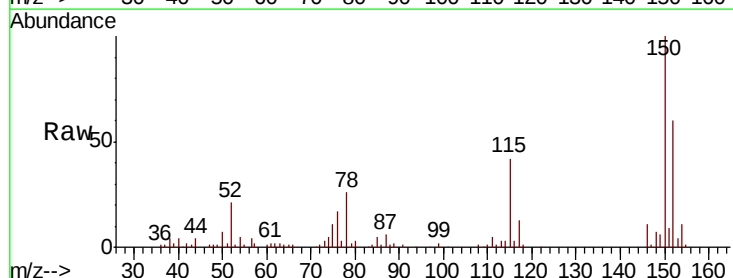
Tgt Ion:146 Resp: 4785

Ion Ratio Lower Upper

146 100

111 46.9 35.0 52.6

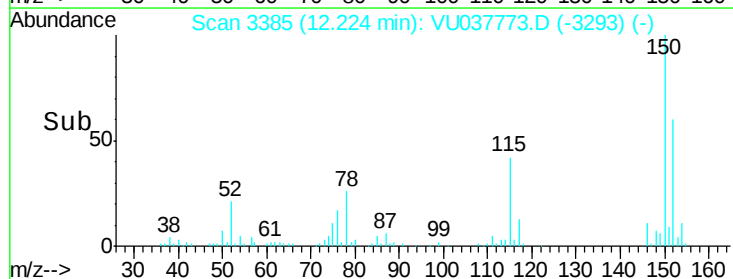
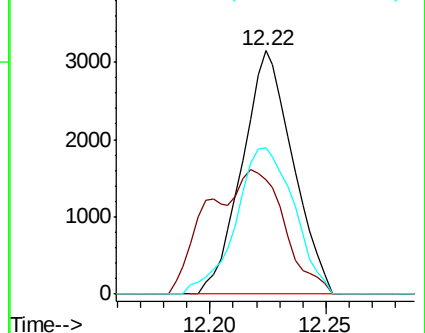
148 59.9 51.5 77.3

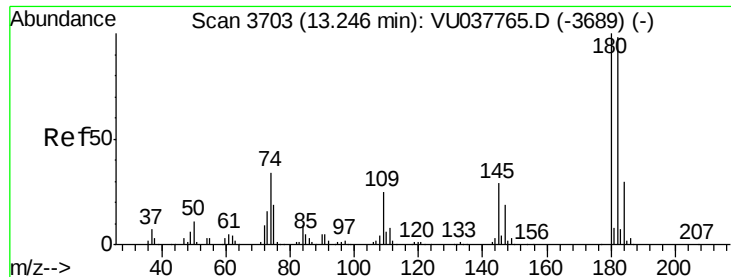


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

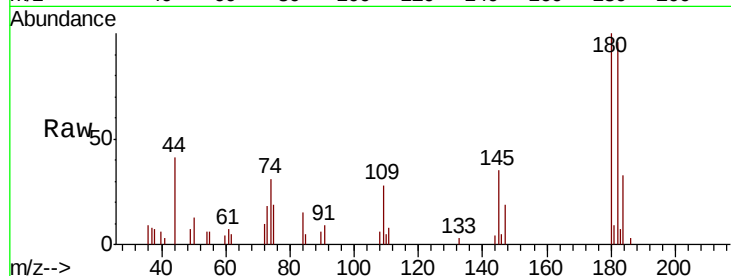




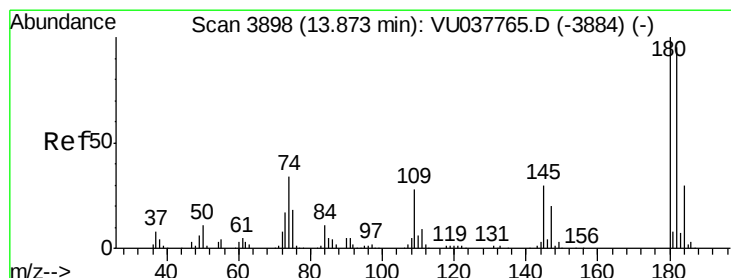
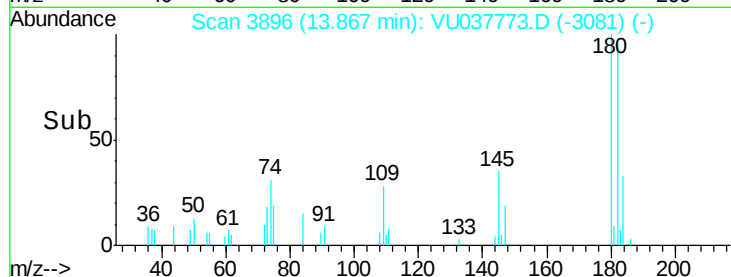
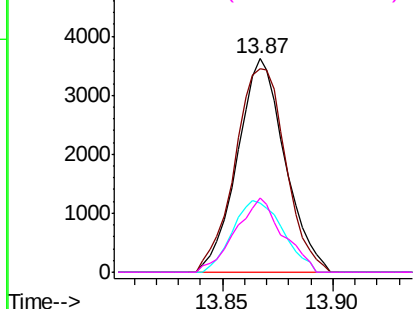
#67
 1,3,5-Trichlorobenzene
 Concen: 0.170 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.62 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 5417
 Ion Ratio Lower Upper
 180 100
 182 101.7 77.1 115.7
 184 35.6 24.7 37.1
 145 34.3 24.6 37.0

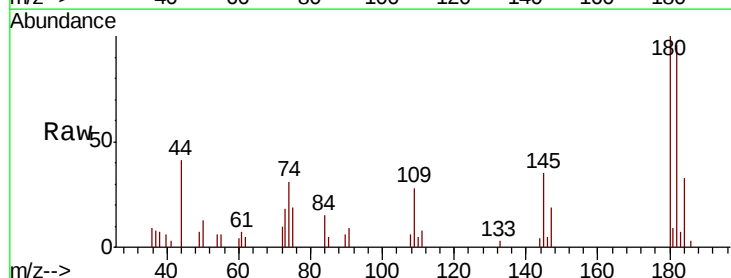


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

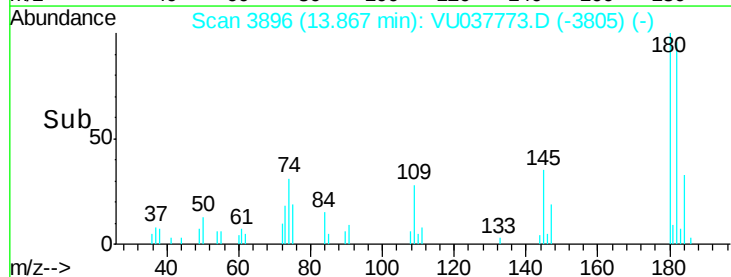
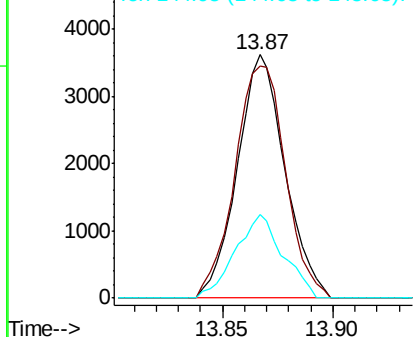


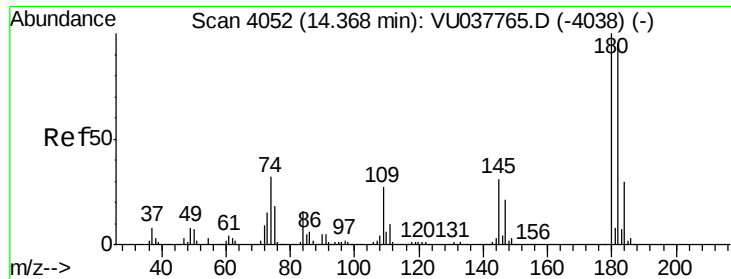
#68
 1,2,4-trichlorobenzene
 Concen: 0.185 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion:180 Resp: 5417
 Ion Ratio Lower Upper
 180 100
 182 101.7 76.4 114.6
 145 34.3 25.1 37.7



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

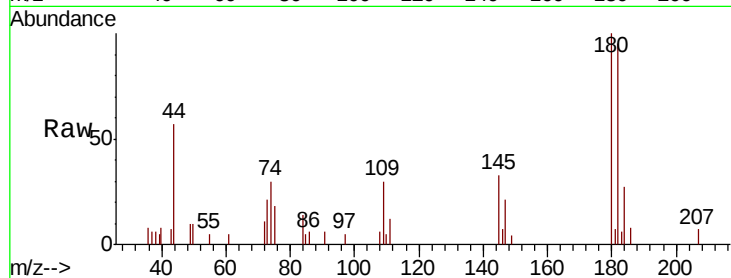




#70
 1,2,3-Trichlorobenzene
 Concen: 0.150 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 3914
 Ion Ratio Lower Upper
 180 100
 182 100.8 76.6 115.0
 145 31.8 26.7 40.1



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

