

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\
 Data File : VU038147.D
 Acq On : 13 May 2020 16:40
 Operator : JC/MD
 Sample : L2630-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 14 01:15:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 14 01:11:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	369858	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	355179	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	172990	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	127322	3.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.20%
7) Chloroethane-d5	1.93	69	121004	4.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.80%
11) 1,1-Dichloroethene-d2	2.59	63	173611	3.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.40%
20) 2-Butanone-d5	4.66	46	484646	58.06	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.12%
24) Chloroform-d	5.10	84	235791	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.74	65	143219	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.76	84	500935	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.72	67	168330	4.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.00%
41) Toluene-d8	7.92	98	444998	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%
43) trans-1,3-Dichloropropene-	8.20	79	62847	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.65	63	393906	60.62	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.24%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	141773	5.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	166568	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	53739	1.345	ug/L	99
12) 1,1-Dichloroethene	2.60	96	8830	0.344	ug/L #	1
13) Acetone	2.66	43	5666	1.082	ug/L	88
15) Methyl Acetate	3.08	43	6857	0.468	ug/L #	53
17) Methyl tert-butyl Ether	3.40	73	8243	0.116	ug/L #	1
18) trans-1,2-Dichloroethene	3.39	96	6492	0.232	ug/L	94
19) 1,1-Dichloroethane	3.91	63	166619	3.044	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	243995	8.080	ug/L	99
25) Chloroform	5.13	83	92467	1.811	ug/L	98
27) 1,2-Dichloroethane	5.83	62	18785	0.521	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	49093	1.206	ug/L	95
30) Cyclohexane	5.43	56	7789	0.162	ug/L	88
31) Carbon tetrachloride	5.35	117	5983	0.183	ug/L	93
33) Benzene	5.81	78	39104	0.344	ug/L	100
34) Trichloroethene	6.57	95	10804	0.380	ug/L	97
35) Methylcyclohexane	6.72	83	37654	0.817	ug/L #	16
37) 1,2-Dichloropropane	6.72	63	17544	0.568	ug/L #	88

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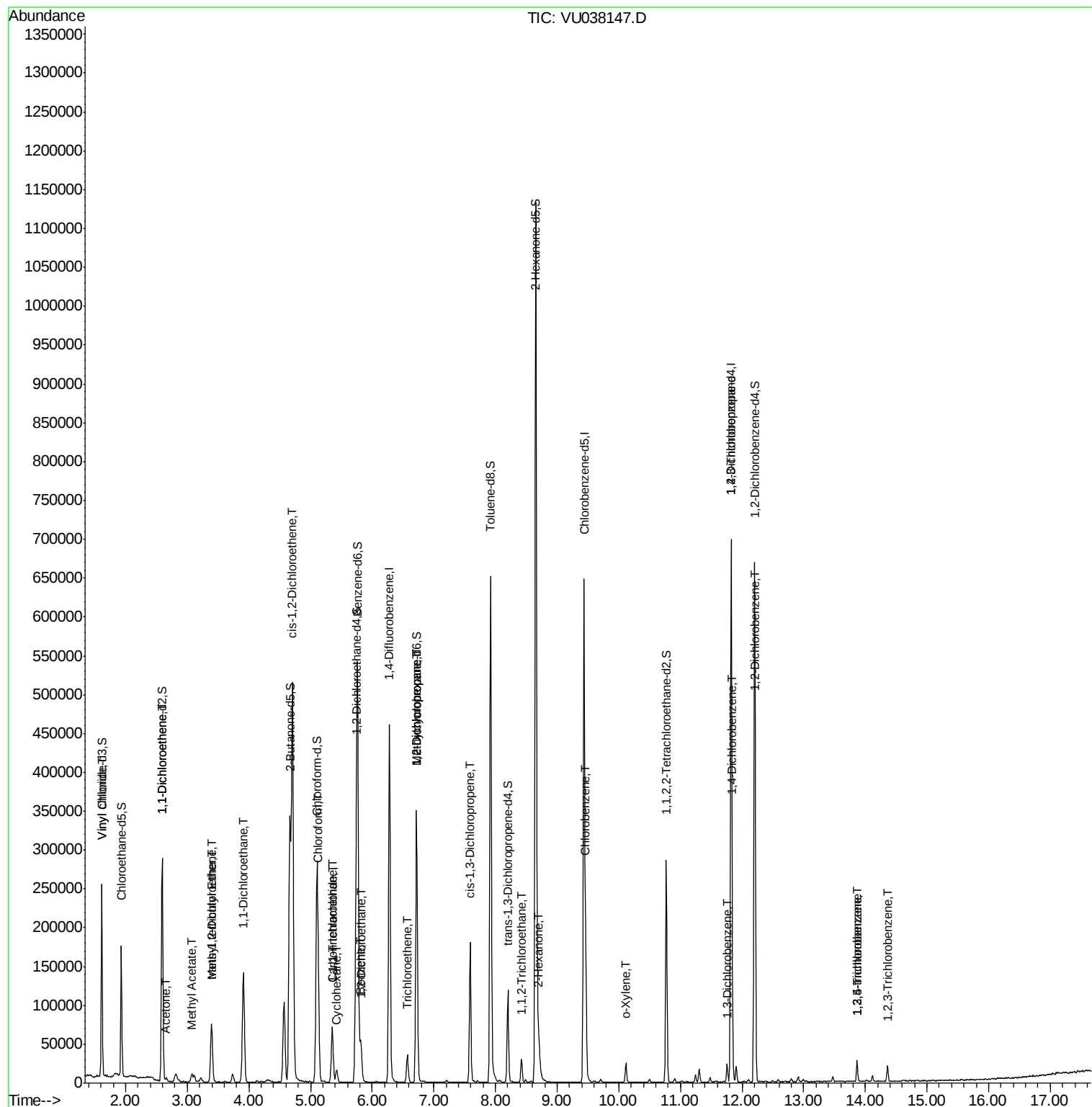
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.59	75	4059	0.092	ug/L #	68
45) 1,1,2-Trichloroethane	8.42	97	8867	0.413	ug/L	95
48) 2-Hexanone	8.71	43	30785	1.963	ug/L #	93
51) Chlorobenzene	9.47	112	72346	0.971	ug/L	98
54) o-Xylene	10.12	106	6490	0.135	ug/L	88
59) 1,2,3-Trichloropropane	11.83	75	28003	1.351	ug/L	97
62) 1,3-Dichlorobenzene	11.76	146	9641	0.171	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	12779	0.224	ug/L	92
65) 1,2-Dichlorobenzene	12.22	146	6213	0.115	ug/L #	88
67) 1,3,5-Trichlorobenzene	13.87	180	7986	0.196	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	7986	0.216	ug/L	96
70) 1,2,3-Trichlorobenzene	14.36	180	5740	0.167	ug/L	95

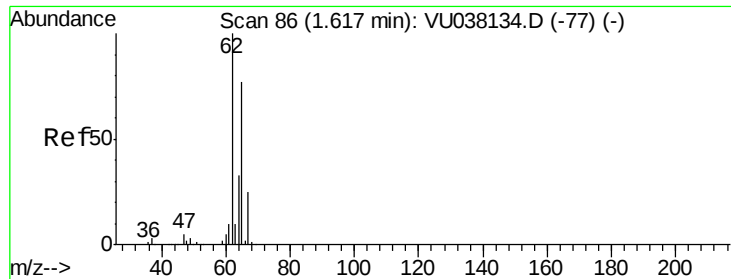
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.345 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

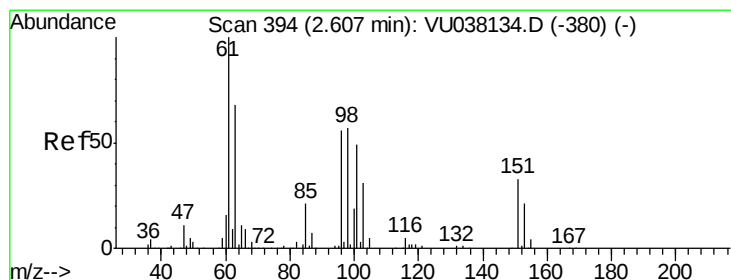
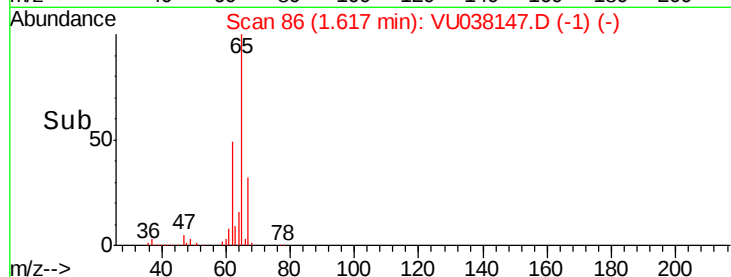
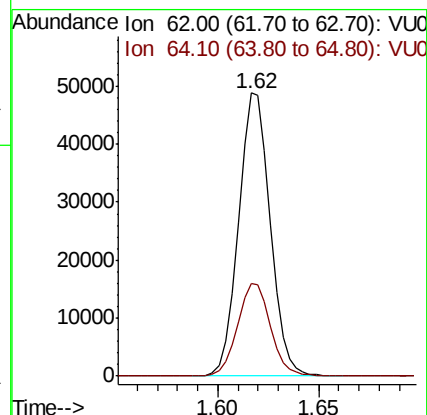
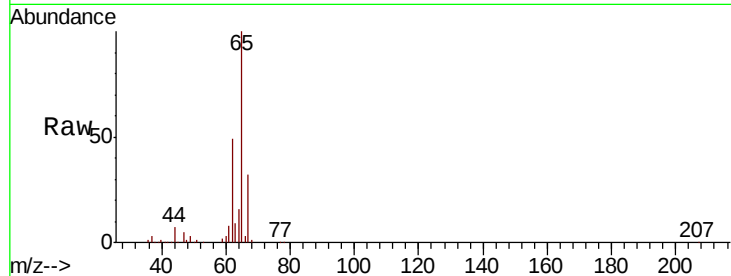
ClientSampled :

Tot Ion: 62 Resp: 53739

Ion Ratio Lower Upper

62 100

64 32.9 22.8 42.4



#12

1,1-Dichloroethene

Concen: 0.344 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

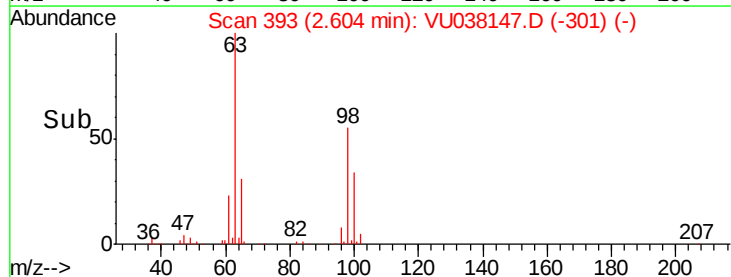
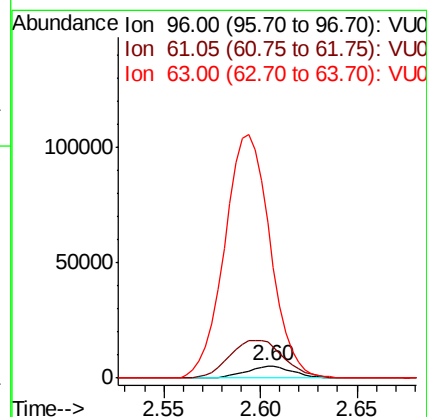
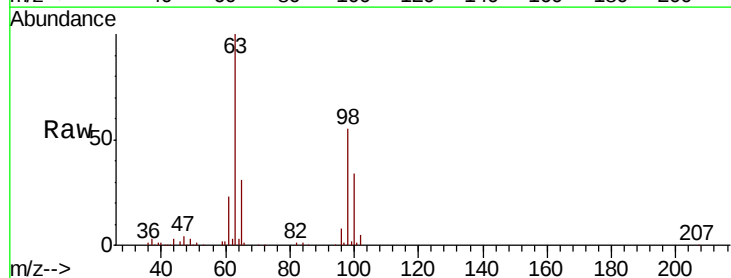
Tgt Ion: 96 Resp: 8830

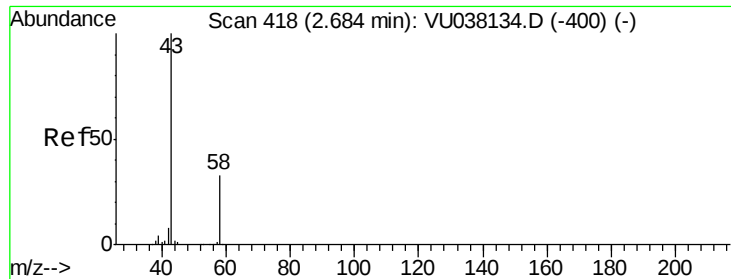
Ion Ratio Lower Upper

96 100

61 297.7 126.2 234.4#

63 1293.9 96.9 179.9#





#13

Acetone

Concen: 1.082 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

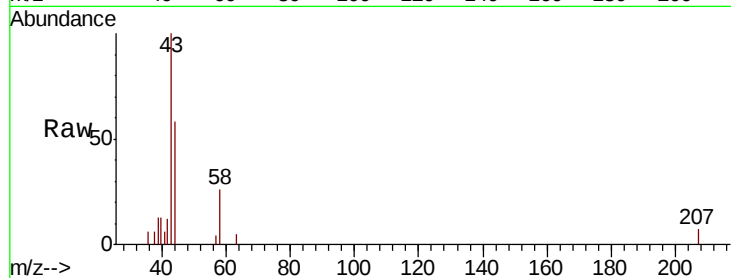
ClientSampleId :

Tot Ion: 43 Resp: 5666

Ion Ratio Lower Upper

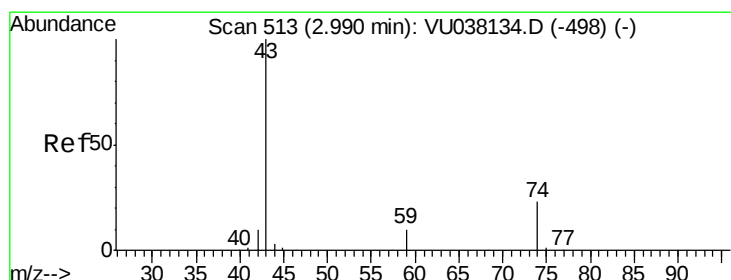
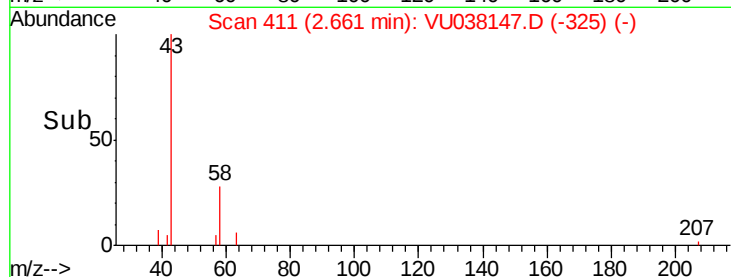
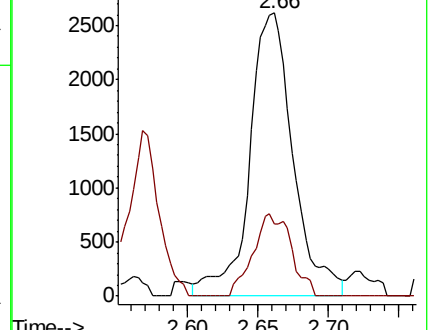
43 100

58 25.4 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038147.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU038147.D (-325) (-)



#15

Methyl Acetate

Concen: 0.468 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.09 min

Lab File: VU038147.D

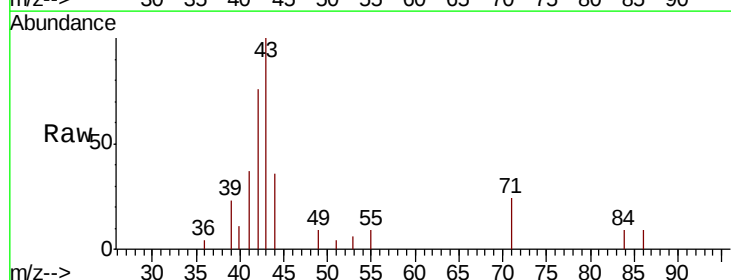
Acq: 13 May 2020 16:40

Tgt Ion: 43 Resp: 6857

Ion Ratio Lower Upper

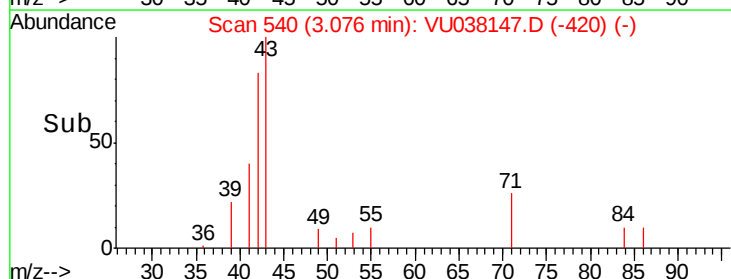
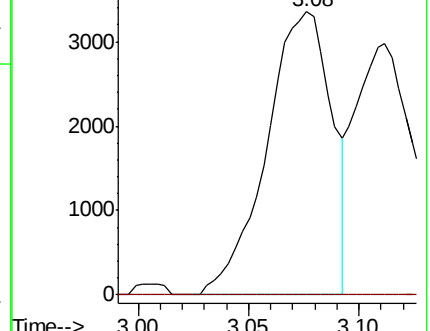
43 100

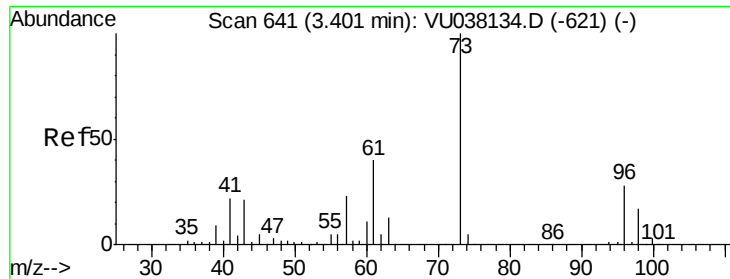
74 0.0 18.0 27.0#



Abundance Ion 43.05 (42.75 to 43.75): VU038147.D (-420) (-)

Ion 74.05 (73.75 to 74.75): VU038147.D (-420) (-)

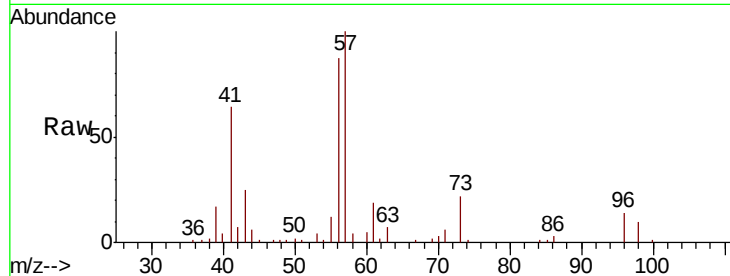




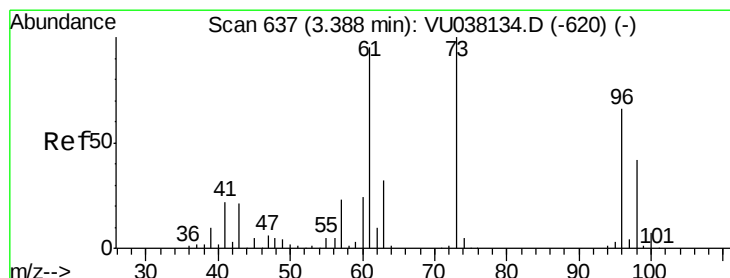
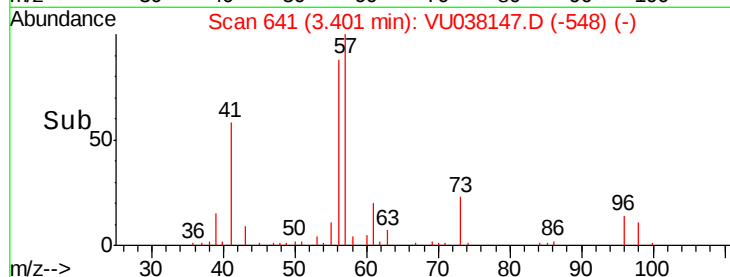
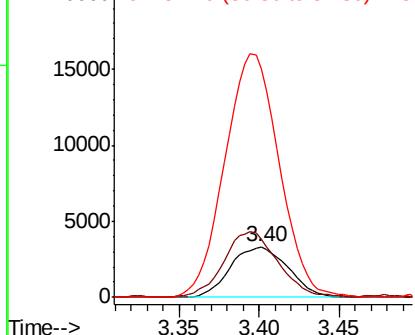
#17
Methvl tert-butvl Ether
Concen: 0.116 ug/L
RT: 3.40 min Scan# 641
Delta R.T. -0.00 min
Lab File: VU038147.D
Acq: 13 May 2020 16:40

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 8243
Ion Ratio Lower Upper
73 100
43 122.4 16.9 25.3#
57 452.0 18.2 27.2#

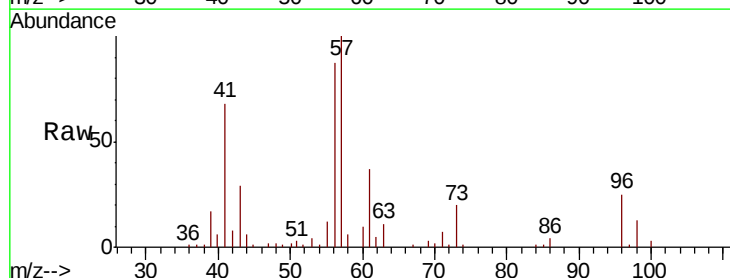


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

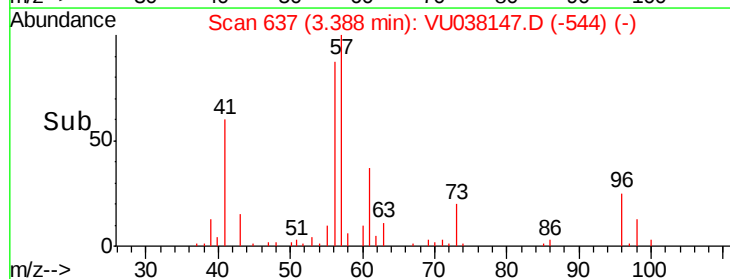
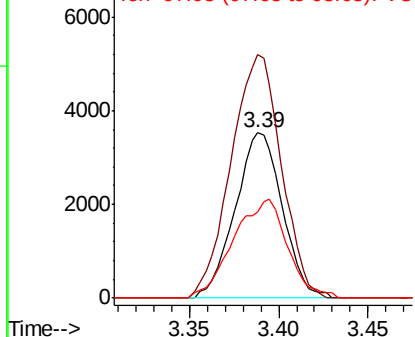


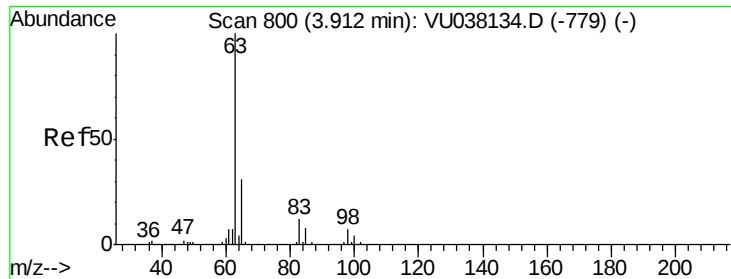
#18
trans-1,2-Dichloroethene
Concen: 0.232 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU038147.D
Acq: 13 May 2020 16:40

Tgt Ion: 96 Resp: 6492
Ion Ratio Lower Upper
96 100
61 147.4 102.1 189.5
98 52.3 45.6 84.8



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

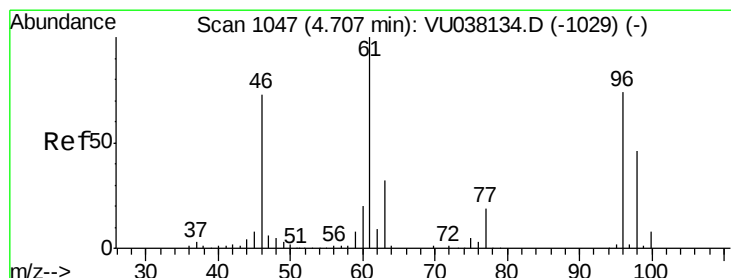
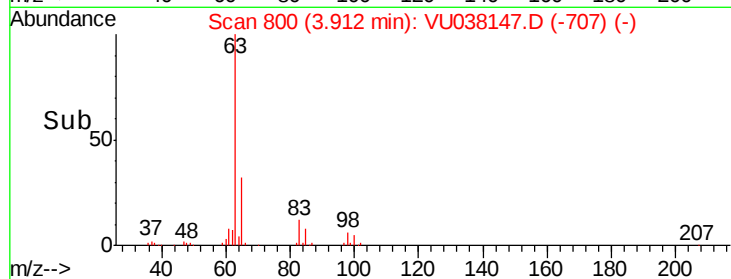
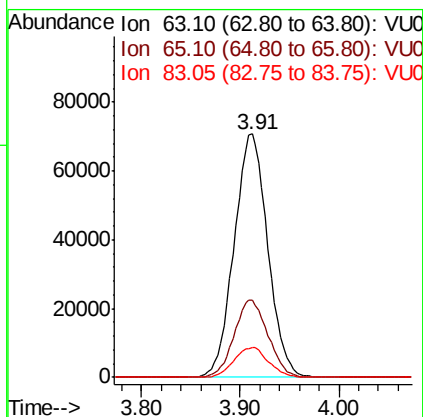
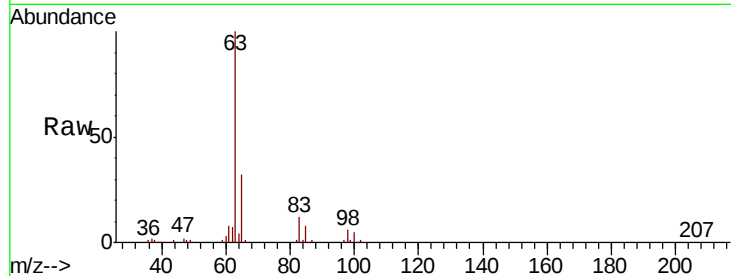




#19
 1,1-Dichloroethane
 Concen: 3.044 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

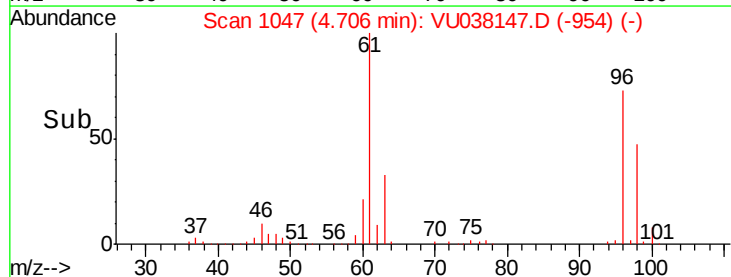
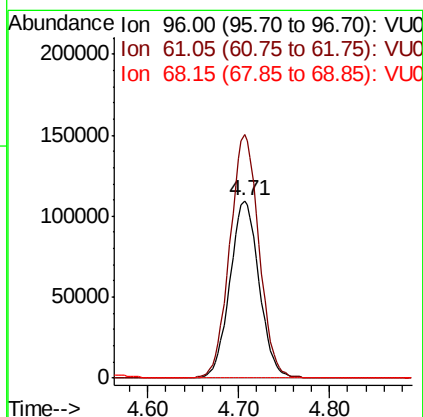
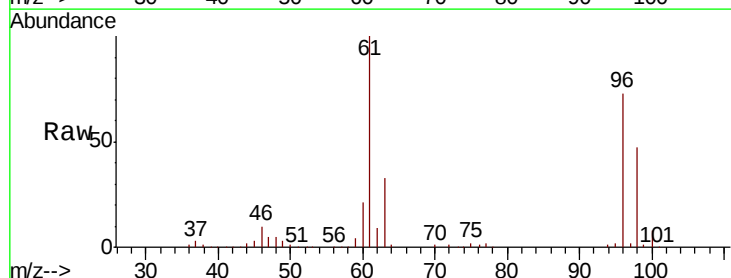
Instrument :
 MSVOA_U
 ClientSampleId :

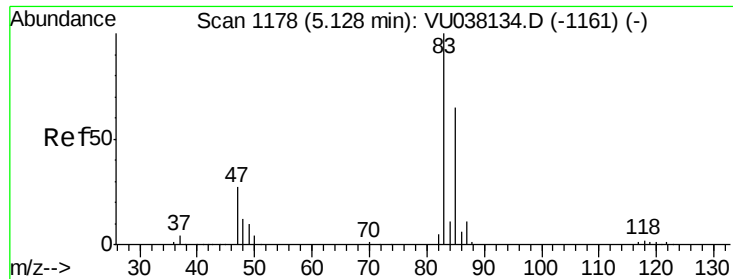
Tot Ion: 63 Resp: 166619
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.5 41.7
 83 12.2 8.9 16.5



#22
 cis-1,2-Dichloroethene
 Concen: 8.080 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Tgt Ion: 96 Resp: 243995
 Ion Ratio Lower Upper
 96 100
 61 137.2 95.3 176.9
 68 0.0 0.0 0.0

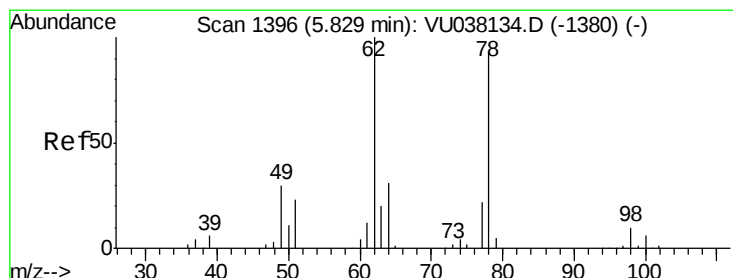
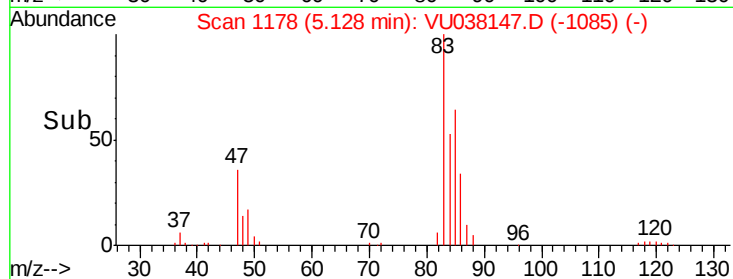
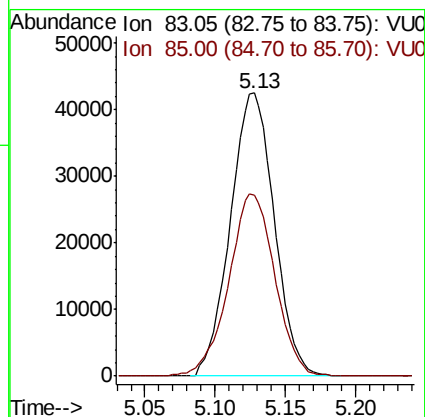
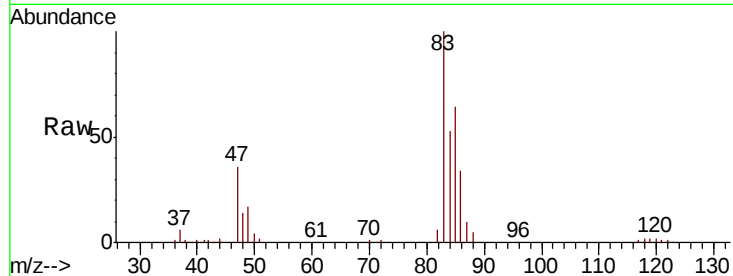




#25
Chloroform
Concen: 1.811 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU038147.D
Acq: 13 May 2020 16:40

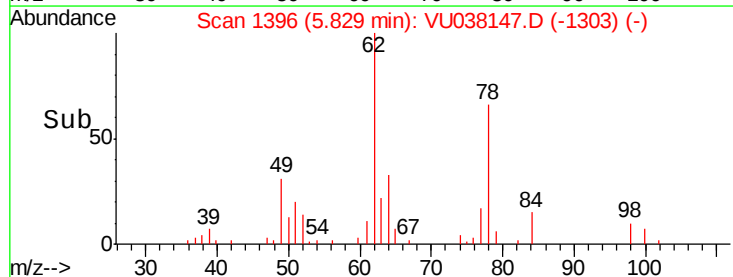
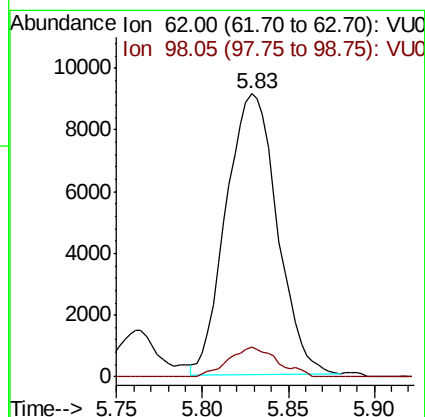
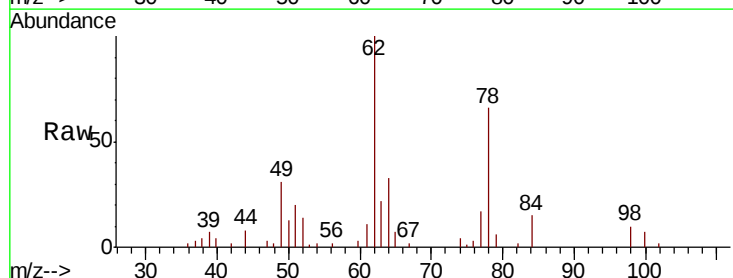
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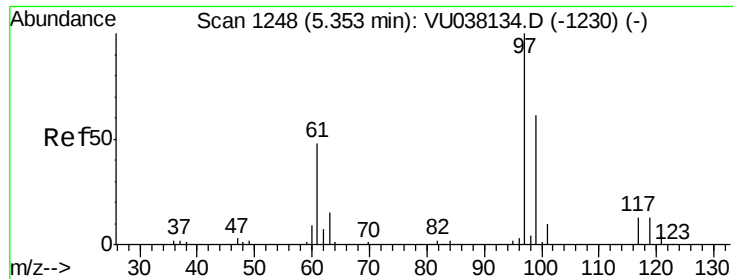
Tot Ion: 83 Resp: 92467
Ion Ratio Lower Upper
83 100
85 64.1 46.2 85.8



#27
1,2-Dichloroethane
Concen: 0.521 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038147.D
Acq: 13 May 2020 16:40

Tgt Ion: 62 Resp: 18785
Ion Ratio Lower Upper
62 100
98 10.4 7.8 11.8

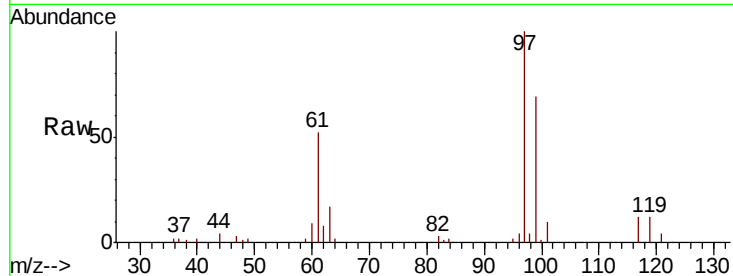




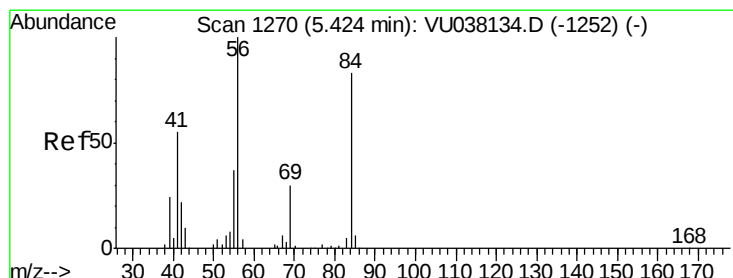
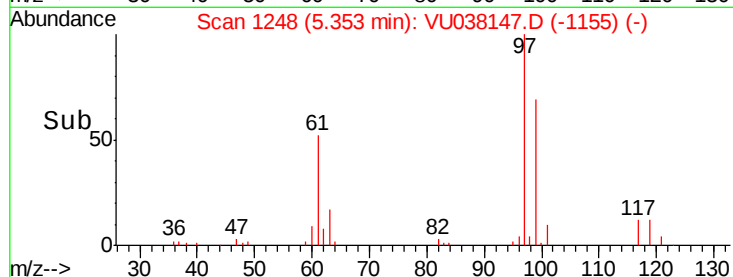
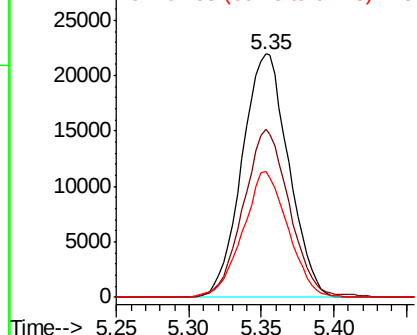
#29
 1,1,1-Trichloroethane
 Concen: 1.206 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 49093
 Ion Ratio Lower Upper
 97 100
 99 68.2 51.0 76.4
 61 50.0 38.2 57.4

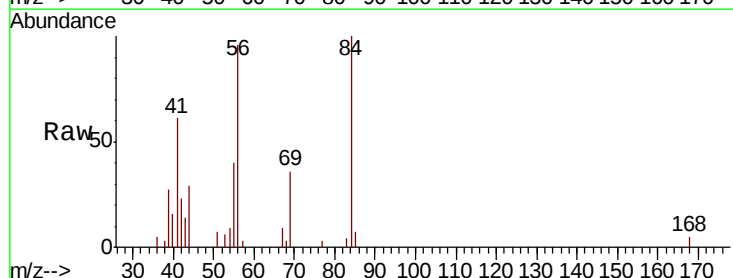


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

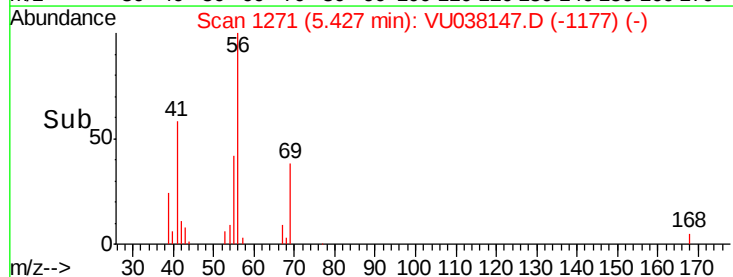
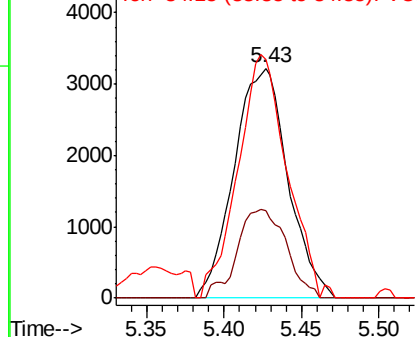


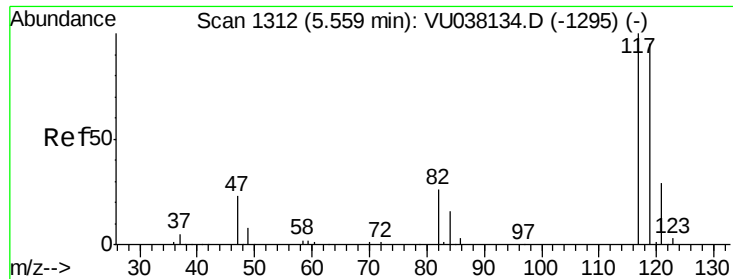
#30
 Cyclohexane
 Concen: 0.162 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Tgt Ion: 56 Resp: 7789
 Ion Ratio Lower Upper
 56 100
 69 35.1 24.2 36.4
 84 97.0 68.5 102.7



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.183 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.21 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

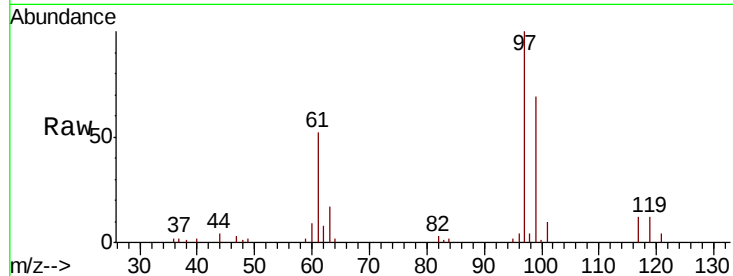
ClientSampleId :

Tot Ion:117 Resp: 5983

Ion Ratio Lower Upper

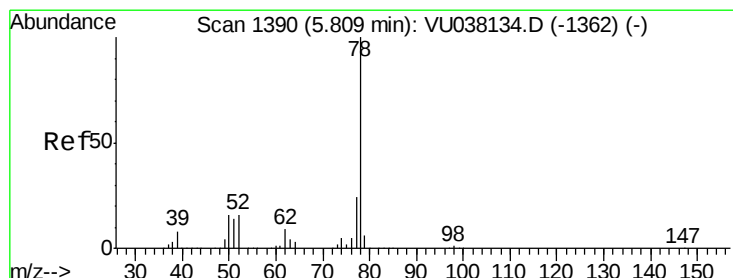
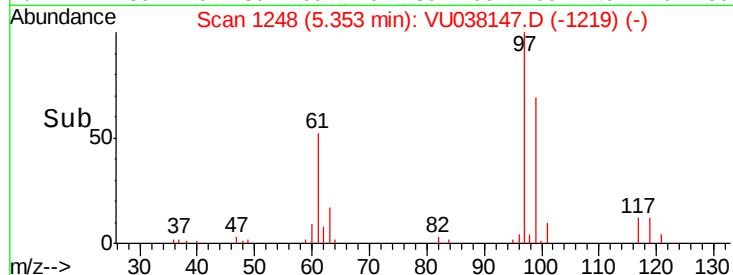
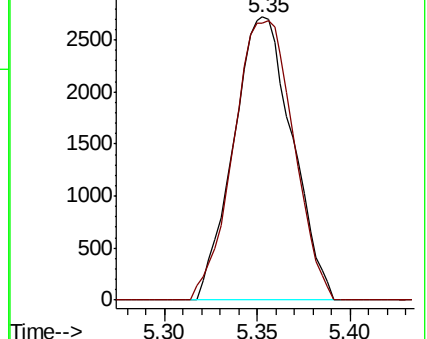
117 100

119 100.7 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.344 ug/L

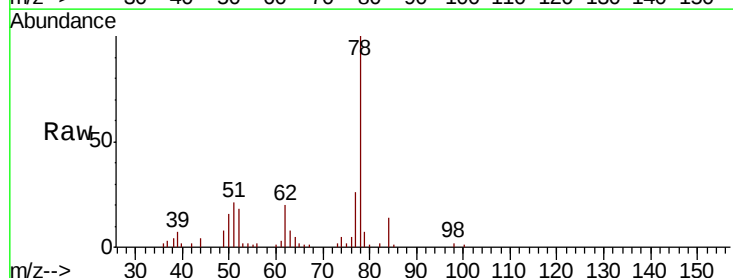
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

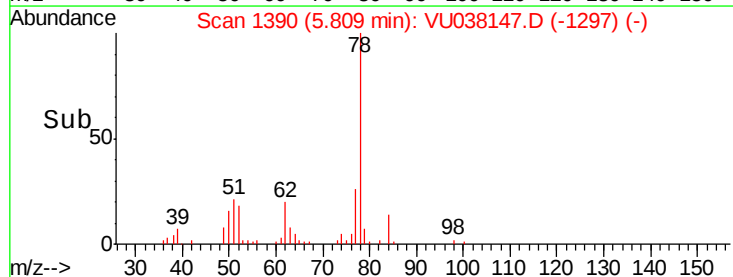
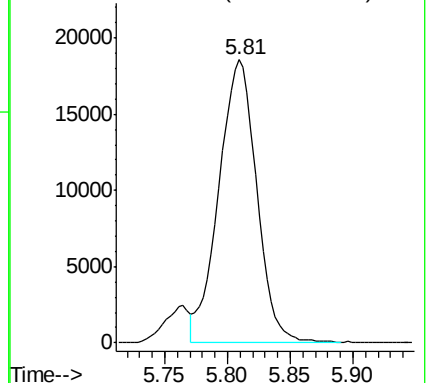
Lab File: VU038147.D

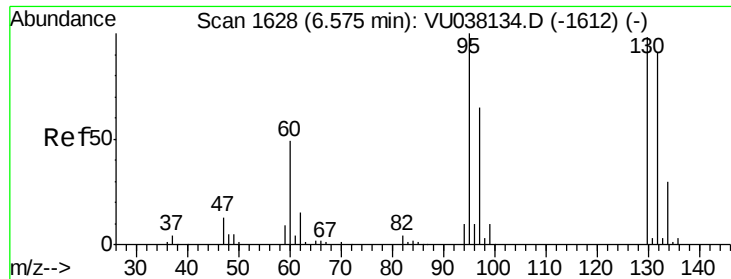
Acq: 13 May 2020 16:40

Tgt Ion: 78 Resp: 39104



Abundance Ion 78.10 (77.80 to 78.80): VU0

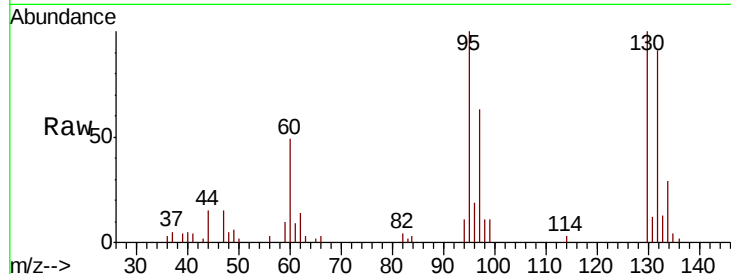




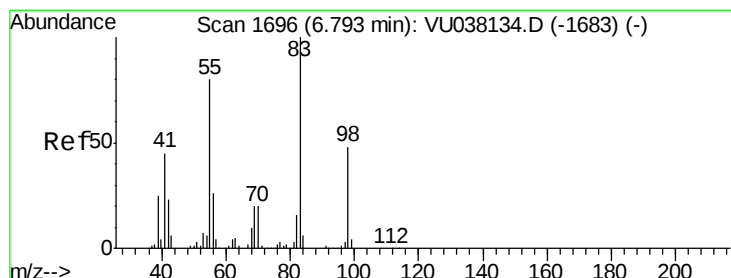
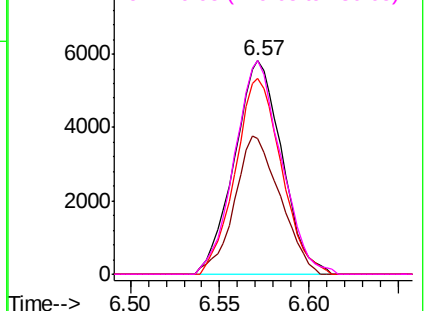
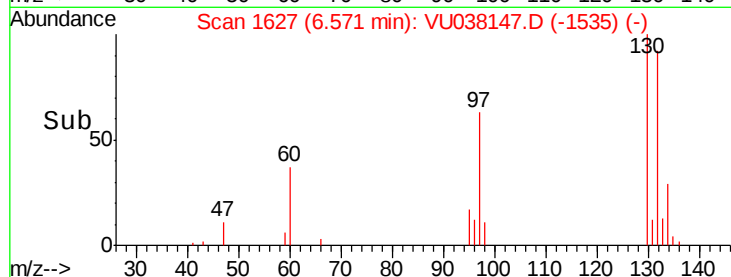
#34
 Trichloroethene
 Concen: 0.380 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 10804
 Ion Ratio Lower Upper
 95 100
 97 63.4 44.9 83.3
 132 91.4 63.3 117.5
 130 99.9 65.7 122.1

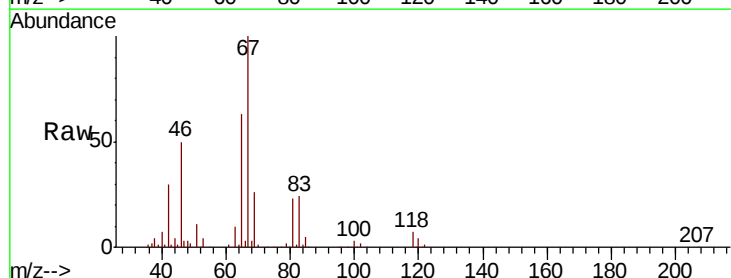


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

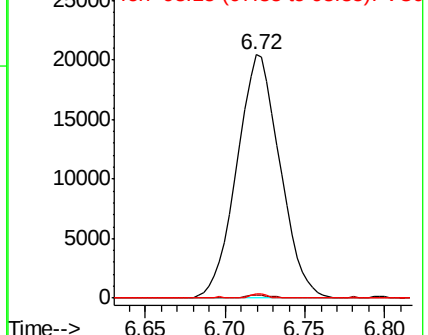
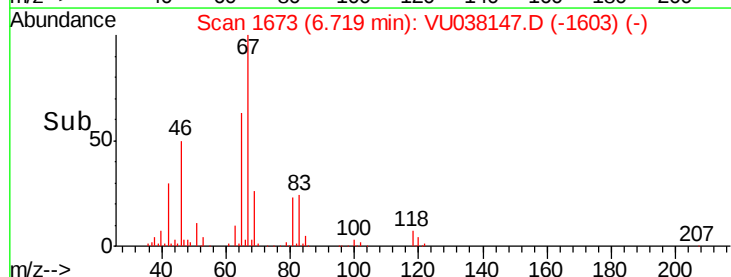


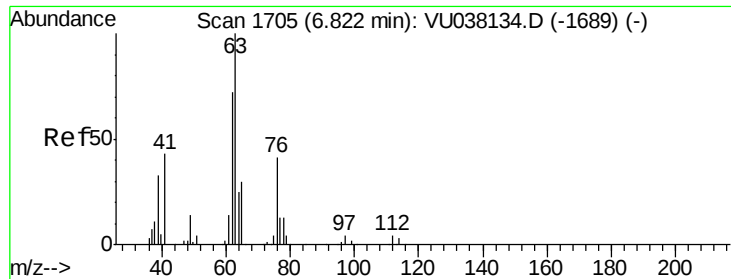
#35
 Methylcyclohexane
 Concen: 0.817 ug/L
 RT: 6.72 min Scan# 1673
 Delta R.T. -0.07 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Tgt Ion: 83 Resp: 37654
 Ion Ratio Lower Upper
 83 100
 55 0.7 66.7 100.1#
 98 0.6 39.4 59.2#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.568 ug/L

RT: 6.72 min Scan# 1673

Delta R.T. -0.10 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

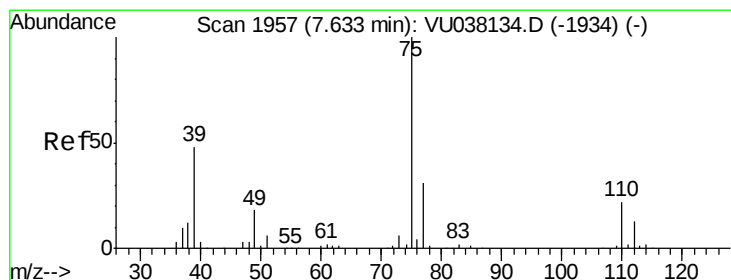
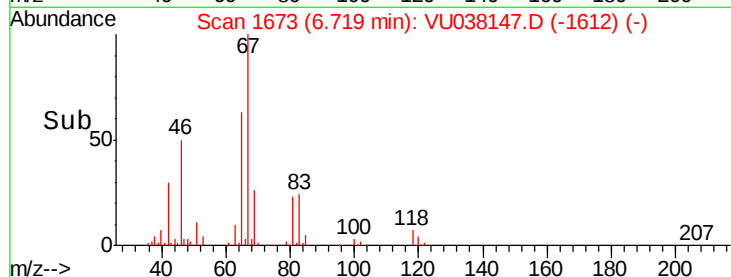
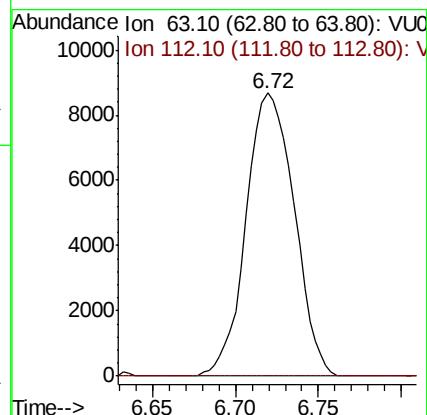
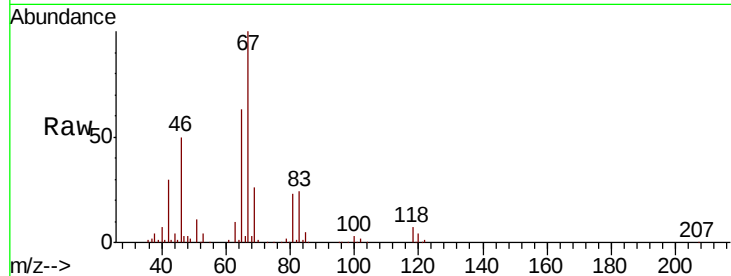
ClientSampleId :

Tot Ion: 63 Resp: 17544

Ion Ratio Lower Upper

63 100

112 0.0 3.1 4.7#



#39

cis-1,3-Dichloropropene

Concen: 0.092 ug/L

RT: 7.59 min Scan# 1944

Delta R.T. -0.04 min

Lab File: VU038147.D

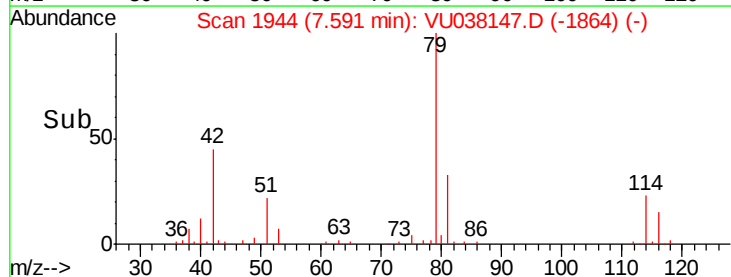
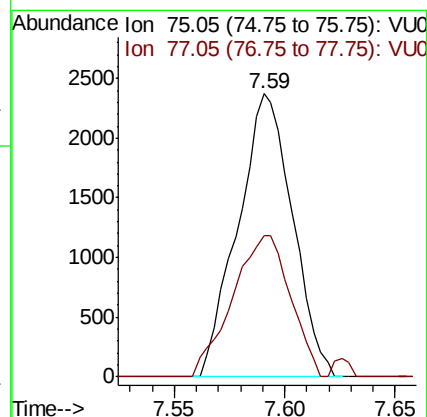
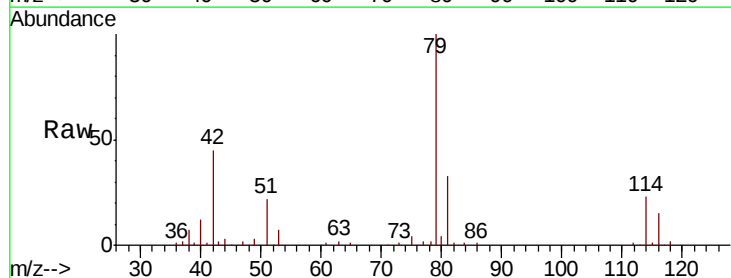
Acq: 13 May 2020 16:40

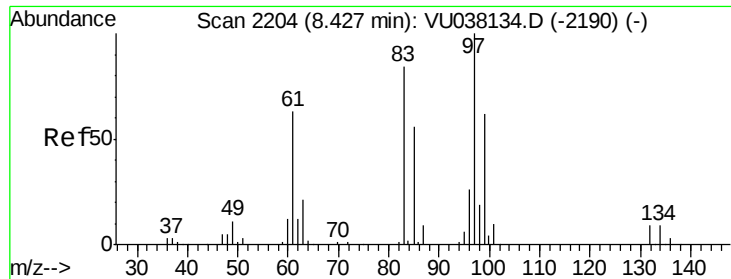
Tgt Ion: 75 Resp: 4059

Ion Ratio Lower Upper

75 100

77 50.1 22.4 41.6#

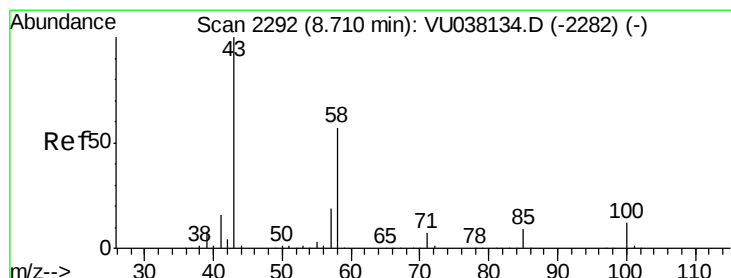
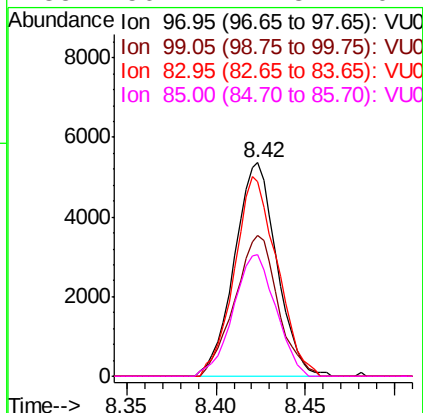
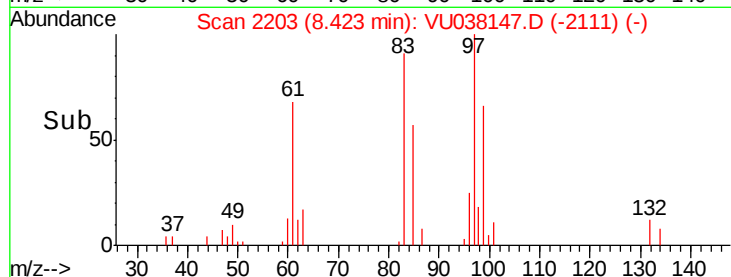
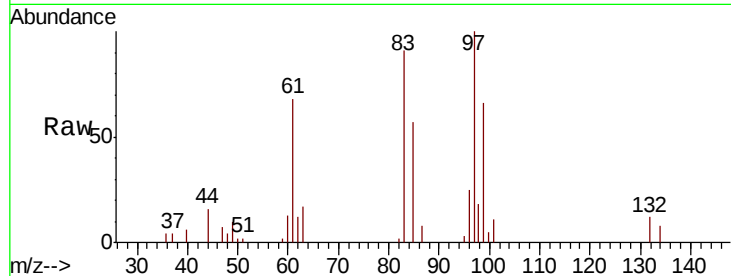




#45
 1,1,2-Trichloroethane
 Concen: 0.413 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

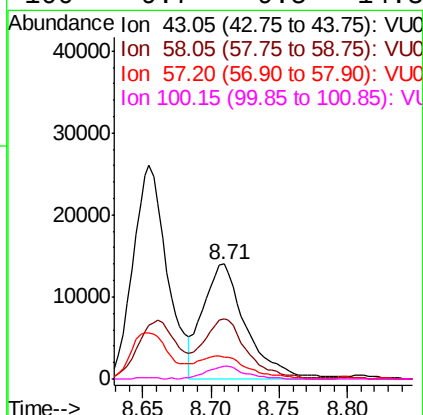
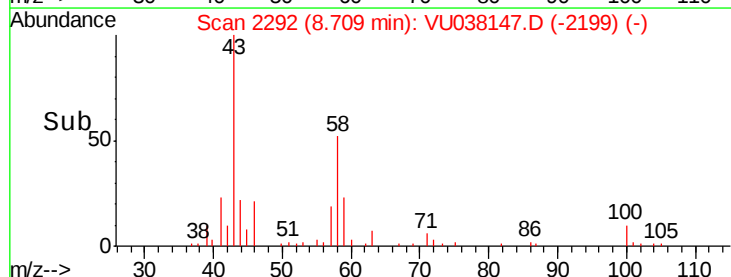
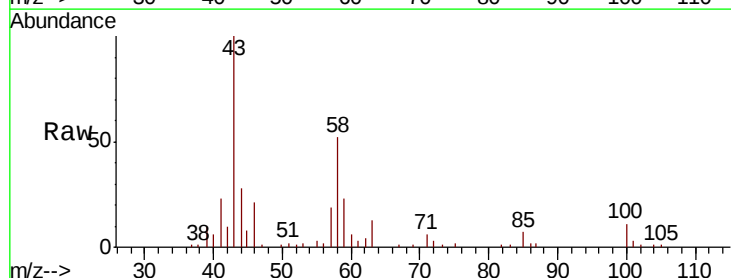
Instrument :
 MSVOA_U
 ClientSampleId :

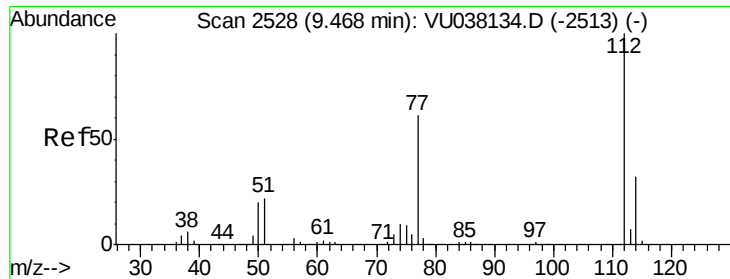
Tot Ion:	97	Resp:	8867
Ion	Ratio	Lower	Upper
97	100		
99	65.7	44.0	81.6
83	91.0	59.6	110.8
85	56.7	41.3	76.7



#48
 2-Hexanone
 Concen: 1.963 ug/L
 RT: 8.71 min Scan# 2292
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Tgt Ion:	43	Resp:	30785
Ion	Ratio	Lower	Upper
43	100		
58	51.1	45.2	67.8
57	23.3	15.5	23.3#
100	9.7	9.5	14.3





#51

Chlorobenzene

Concen: 0.971 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

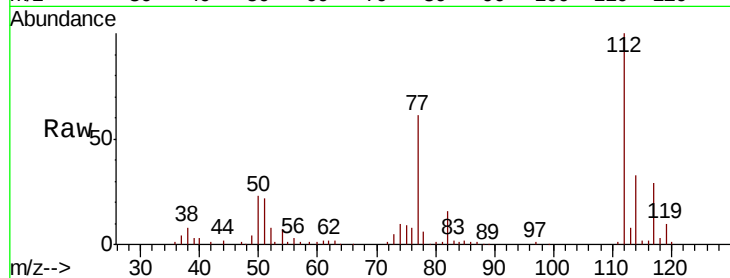
Tot Ion:112 Resp: 72346

Ion Ratio Lower Upper

112 100

114 32.8 22.5 41.7

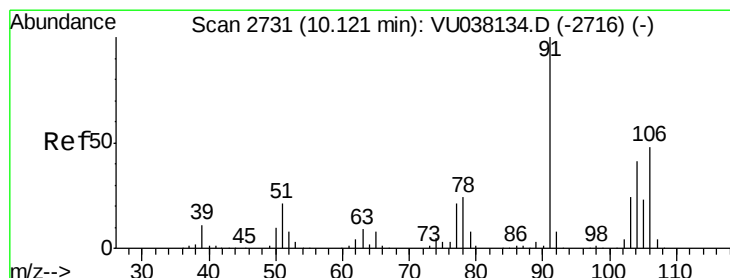
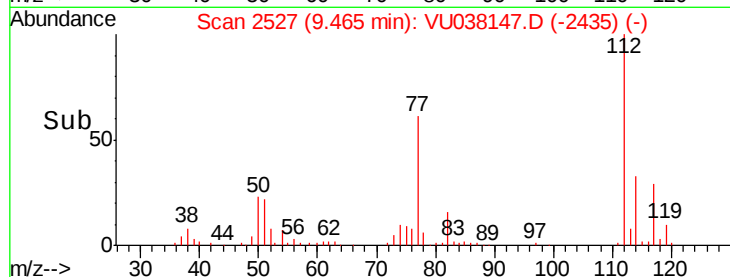
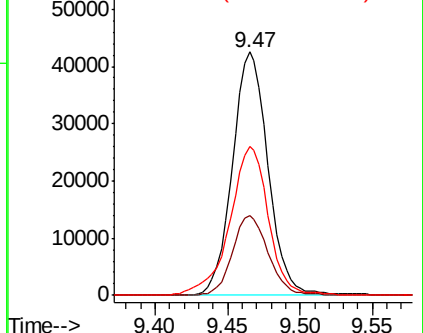
77 60.9 49.9 74.9



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU



#54

o-Xylene

Concen: 0.135 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU038147.D

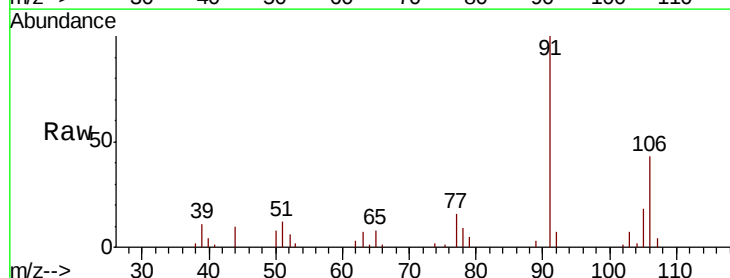
Acq: 13 May 2020 16:40

Tgt Ion:106 Resp: 6490

Ion Ratio Lower Upper

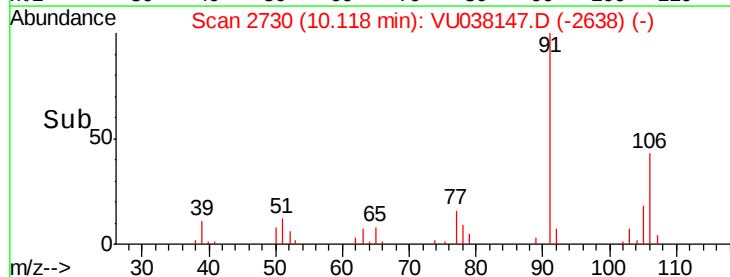
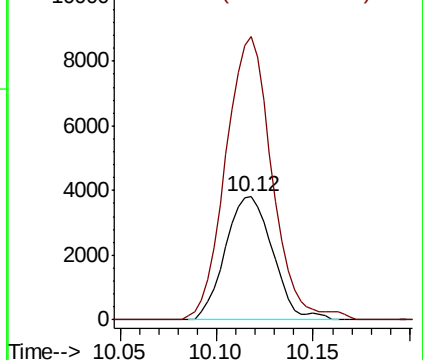
106 100

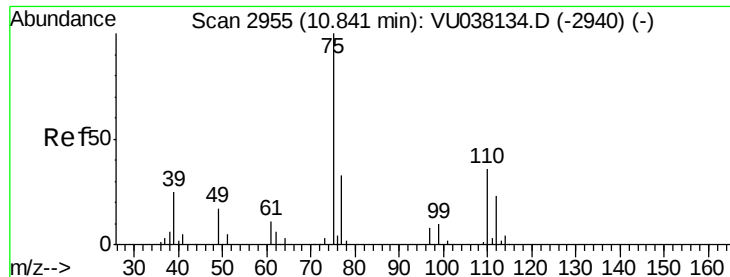
91 230.6 148.5 275.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU

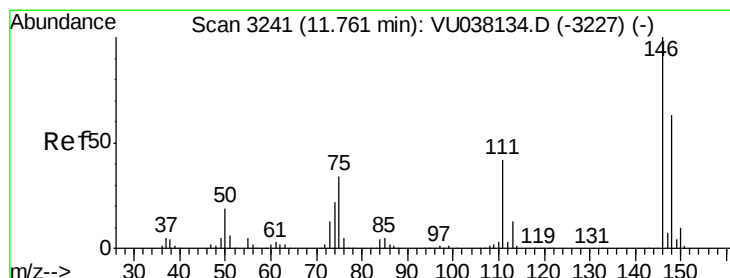
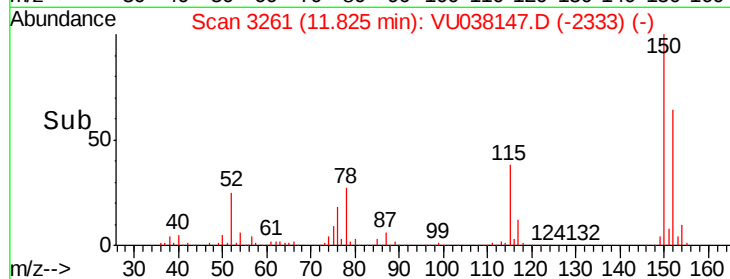
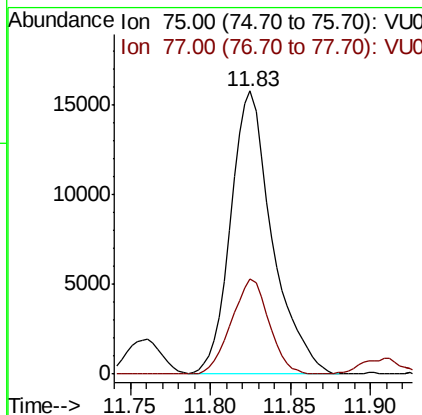
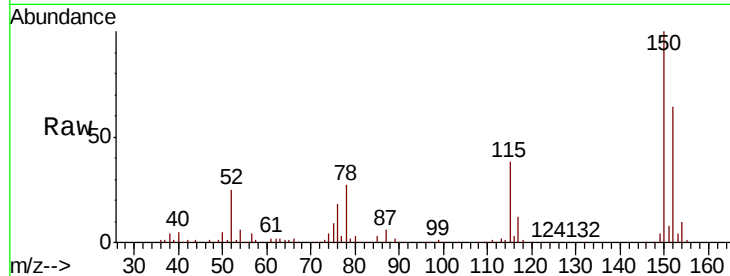




#59
 1,2,3-Trichloropropane
 Concen: 1.351 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.98 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

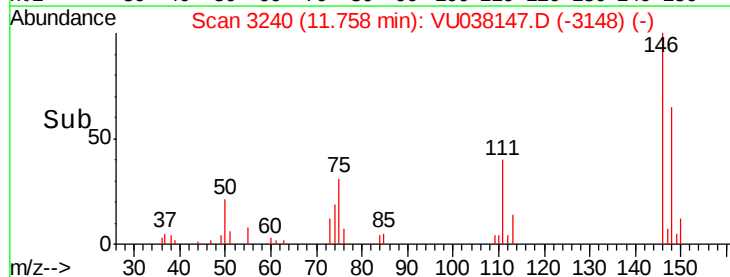
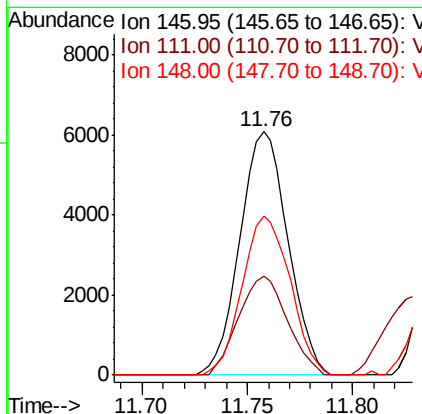
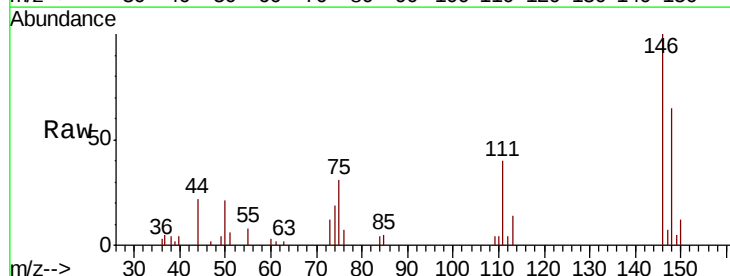
Instrument :
 MSVOA_U
 ClientSampleId :

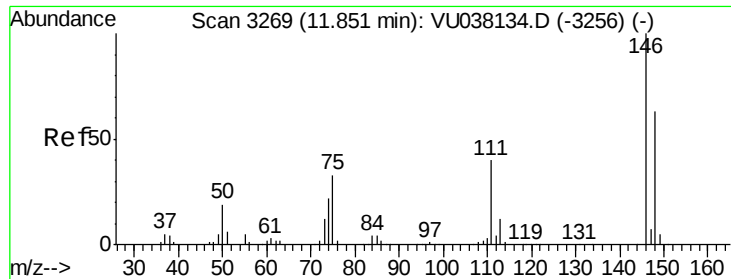
Tot Ion: 75 Resp: 28003
 Ion Ratio Lower Upper
 75 100
 77 30.2 25.4 38.0



#62
 1,3-Dichlorobenzene
 Concen: 0.171 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Tgt Ion: 146 Resp: 9641
 Ion Ratio Lower Upper
 146 100
 111 40.5 28.6 53.2
 148 65.4 45.2 84.0





#63

1,4-Dichlorobenzene

Concen: 0.224 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampled :

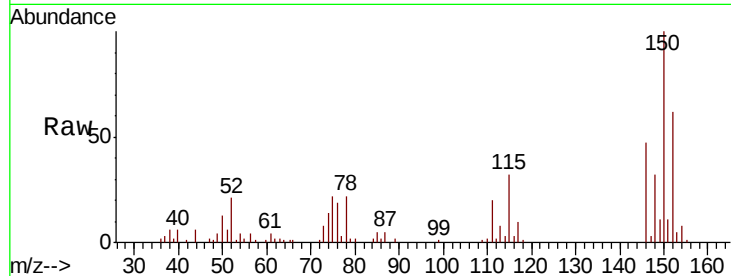
Tot Ion:146 Resp: 12779

Ion Ratio Lower Upper

146 100

111 43.2 27.2 50.6

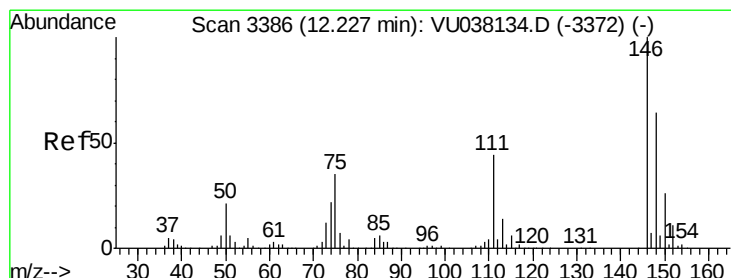
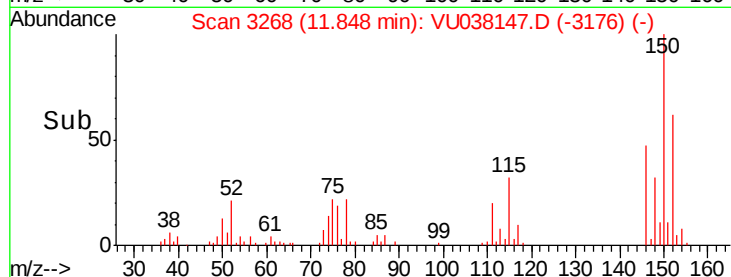
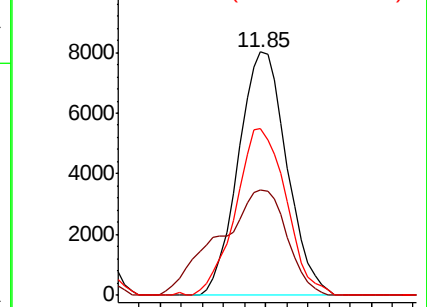
148 68.6 43.8 81.3



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



#65

1,2-Dichlorobenzene

Concen: 0.115 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

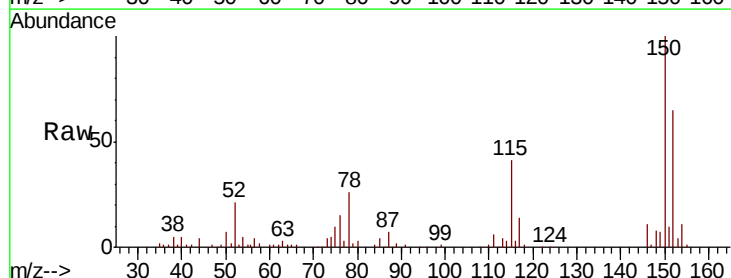
Tgt Ion:146 Resp: 6213

Ion Ratio Lower Upper

146 100

111 53.0 35.3 52.9#

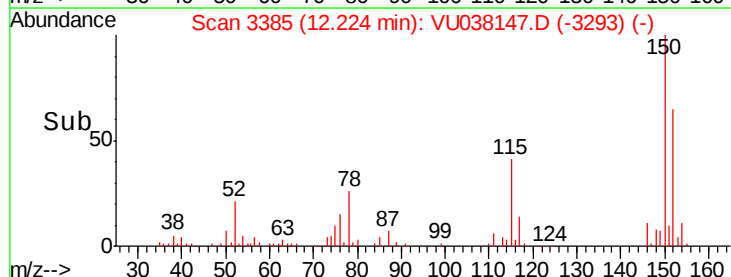
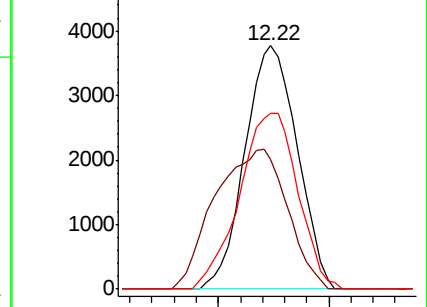
148 72.4 51.0 76.4

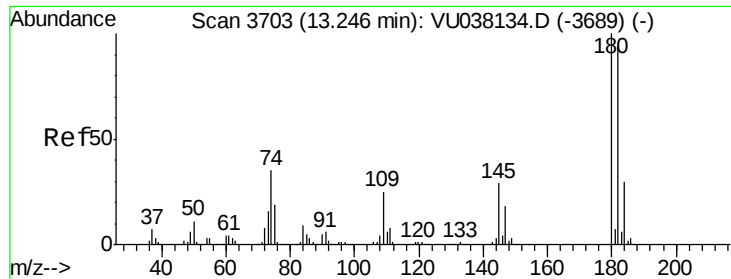


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#67

1,3,5-Trichlorobenzene

Concen: 0.196 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. 0.62 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:180 Resp: 7986

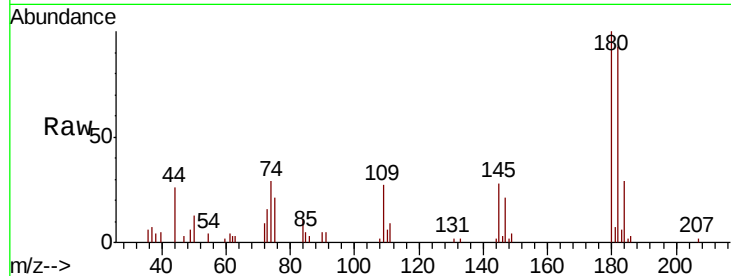
Ion Ratio Lower Upper

180 100

182 98.8 77.4 116.2

184 31.0 24.2 36.2

145 31.5 24.0 36.0

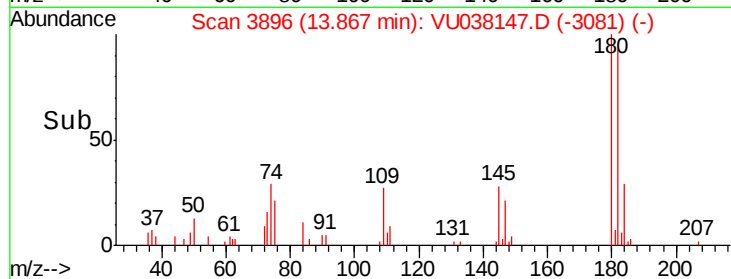
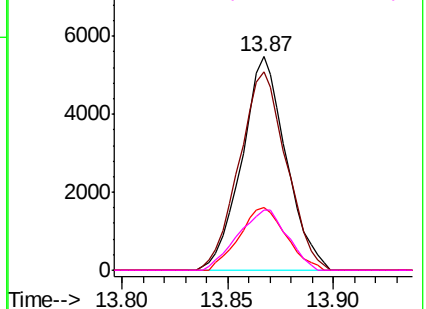


Abundance Ion 180.00 (179.70 to 180.70): V

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: 0.216 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. -0.01 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

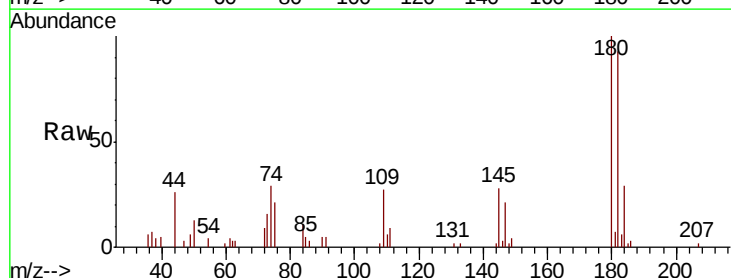
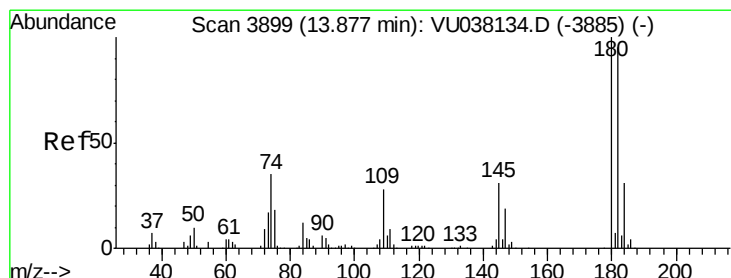
Tgt Ion:180 Resp: 7986

Ion Ratio Lower Upper

180 100

182 98.8 75.0 112.6

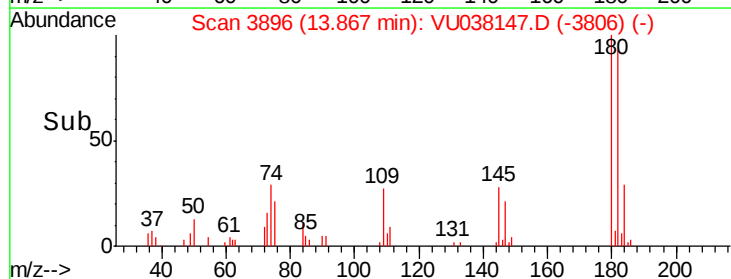
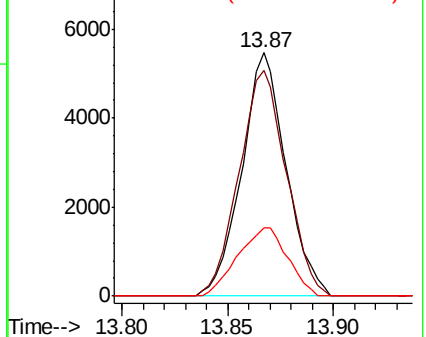
145 31.5 24.8 37.2

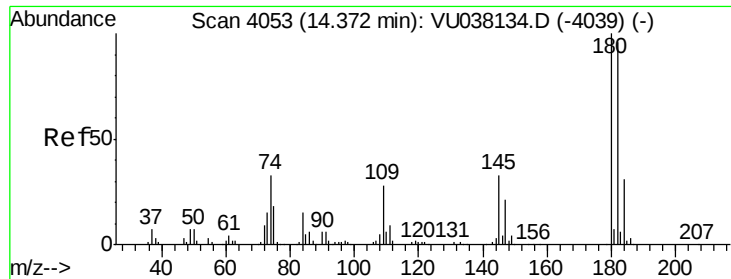


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V

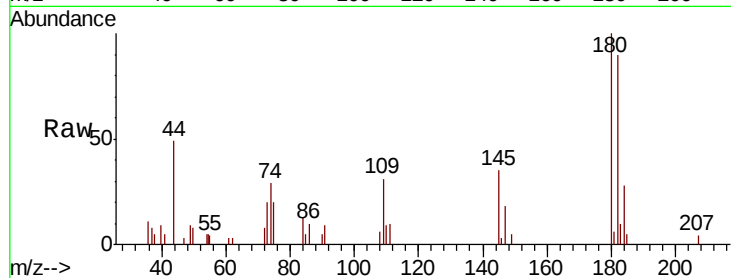




#70
 1,2,3-Trichlorobenzene
 Concen: 0.167 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.7	76.3	114.5
145	34.7	26.1	39.1



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

