

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\
 Data File : VU037103.D
 Acq On : 06 Mar 2020 12:51
 Operator : JC/MD
 Sample : L1780-05DL 100X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 07 00:02:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 06 23:54:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	272117	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	263640	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	102966	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	93049	40.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.44%
7) Chloroethane-d5	1.93	69	87435	46.24	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.48%
11) 1,1-Dichloroethene-d2	2.59	63	123797	32.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.70%
21) 2-Butanone-d5	4.67	46	145319	94.80	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.80%
24) Chloroform-d	5.10	84	157592	45.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.32%
26) 1,2-Dichloroethane-d4	5.74	65	109246	46.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.52%
32) Benzene-d6	5.76	84	343188	45.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.02%
36) 1,2-Dichloropropane-d6	6.72	67	112242	45.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.88%
41) Toluene-d8	7.92	98	305768	43.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.46%
43) trans-1,3-Dichloropropene-	8.20	79	45055	39.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.50%
47) 2-Hexanone-d5	8.66	63	96953	80.28	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	80.28%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	153026	43.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.88%
64) 1,2-Dichlorobenzene-d4	12.21	152	93827	46.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.22%

Target Compounds

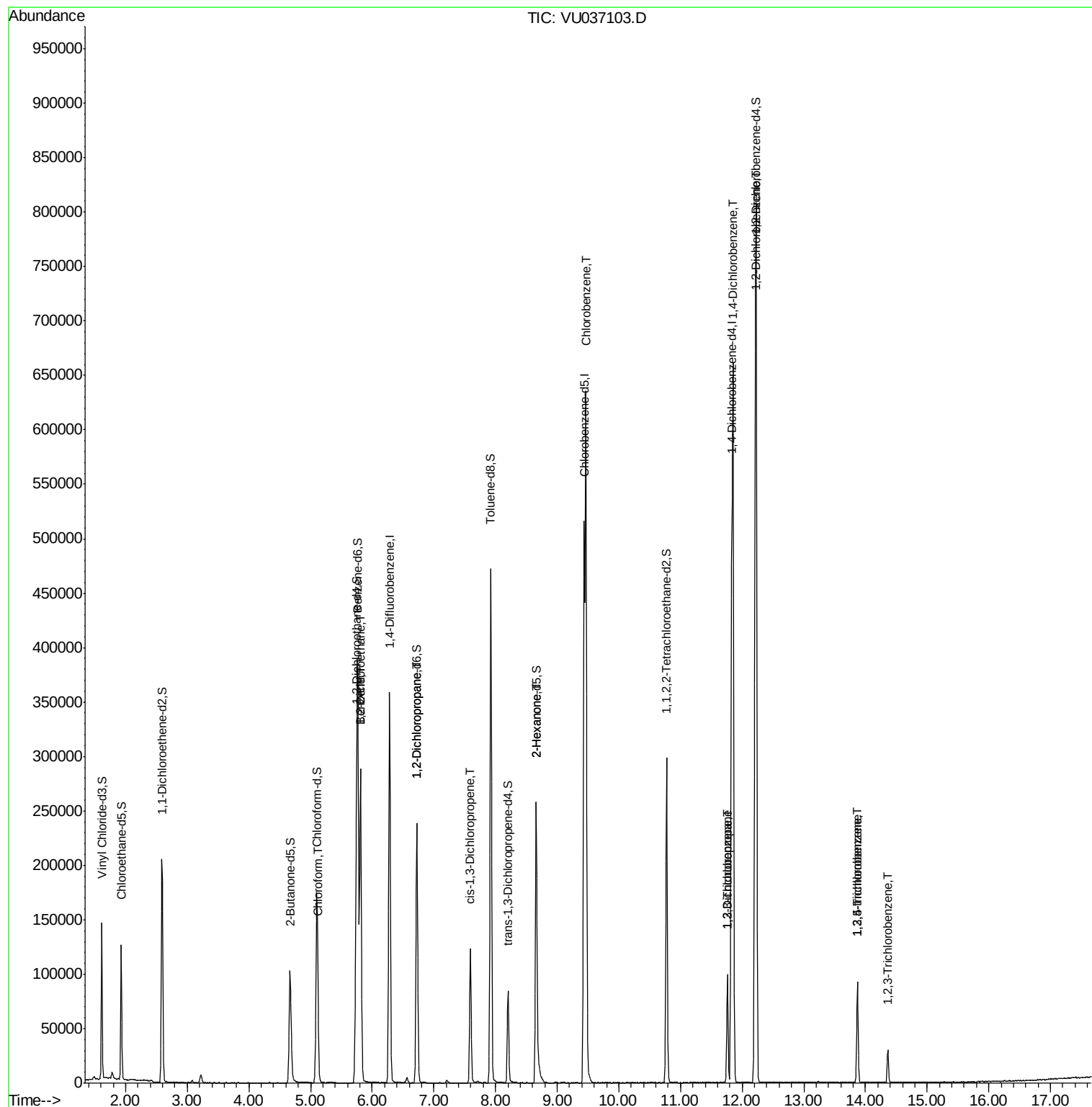
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
25) Chloroform	5.13	83	4821	1.362	ug/L	89
27) 1,2-Dichloroethane	5.81	62	2451	0.850	ug/L #	75
33) Benzene	5.81	78	263573	31.646	ug/L	100
37) 1,2-Dichloropropane	6.72	63	12176	5.429	ug/L #	88
39) cis-1,3-Dichloropropene	7.59	75	2907	0.842	ug/L #	47
48) 2-Hexanone	8.66	43	11093	4.207	ug/L #	68
51) Chlorobenzene	9.47	112	307811	58.545	ug/L	100
59) 1,2,3-Trichloropropane	11.76	75	13570	4.704	ug/L #	42
62) 1,3-Dichlorobenzene	11.76	146	37369	11.188	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	233791	70.844	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	264592	79.336	ug/L	99
67) 1,3,5-Trichlorobenzene	13.87	180	24673	11.637	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	24673	15.533	ug/L	95
70) 1,2,3-Trichlorobenzene	14.36	180	8352	5.262	ug/L	99

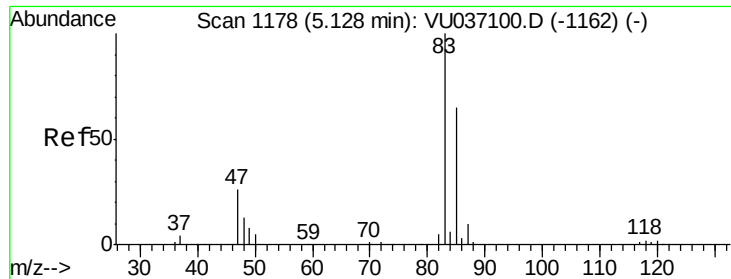
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Fri Mar 06 23:54:55 2020
Response via : Initial Calibration

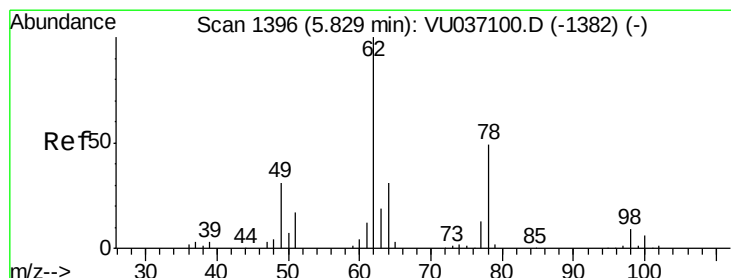
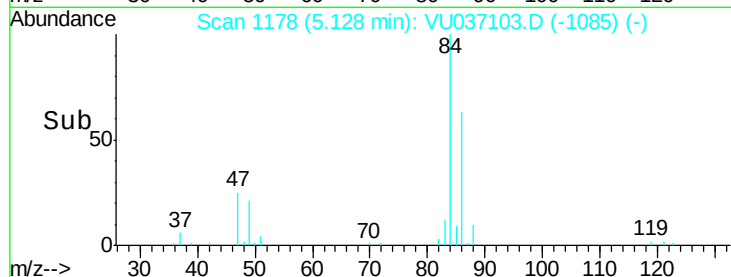
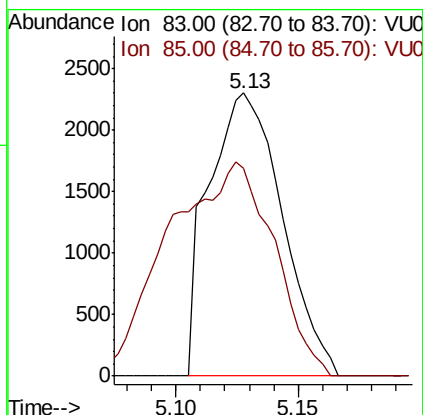
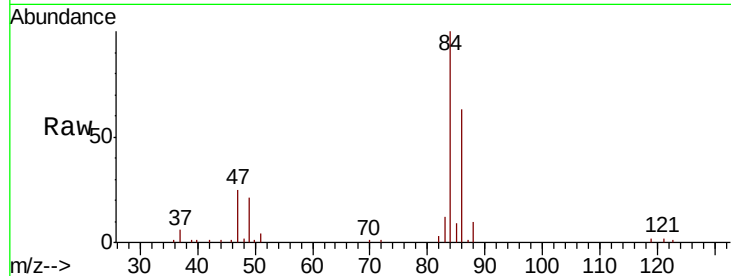




#25
Chloroform
Concen: 1.362 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037103.D
Acq: 06 Mar 2020 12:51

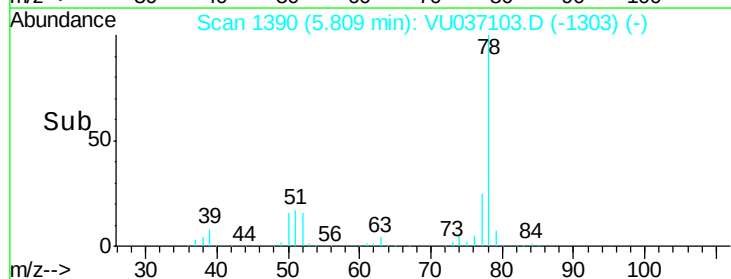
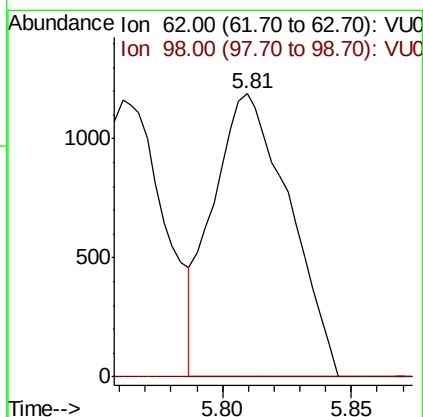
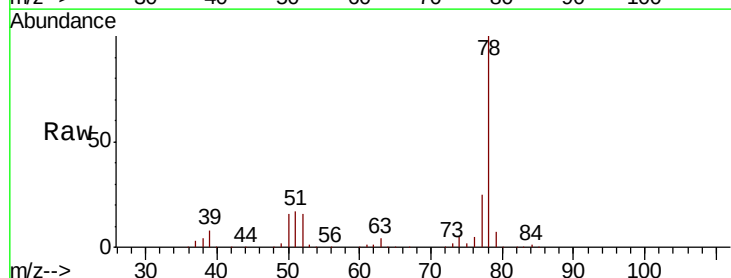
Instrument :
MSVOA_U
ClientSampled :

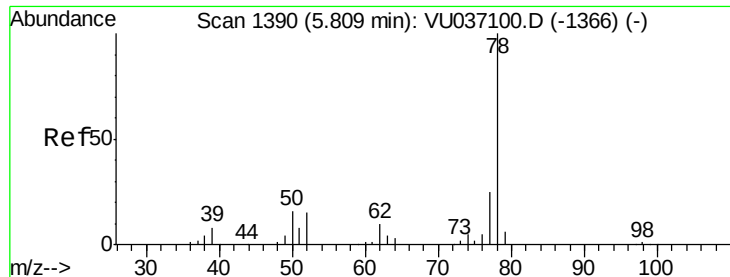
Tot Ion: 83 Resp: 4821
Ion Ratio Lower Upper
83 100
85 73.4 45.1 83.9



#27
1,2-Dichloroethane
Concen: 0.850 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.02 min
Lab File: VU037103.D
Acq: 06 Mar 2020 12:51

Tgt Ion: 62 Resp: 2451
Ion Ratio Lower Upper
62 100
98 0.0 7.1 10.7#





#33

Benzene

Concen: 31.646 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037103.D

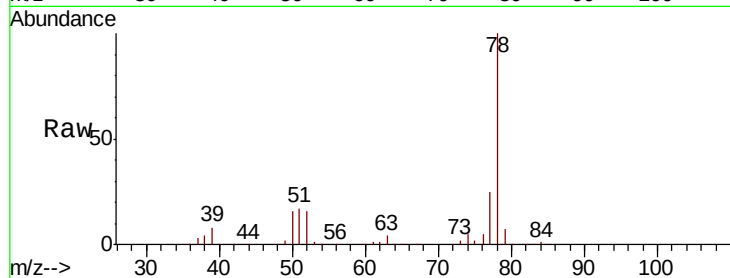
Acq: 06 Mar 2020 12:51

Instrument :

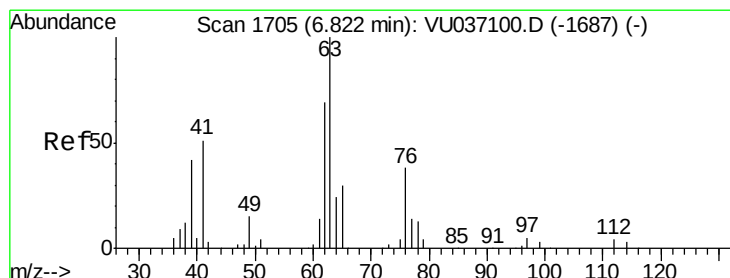
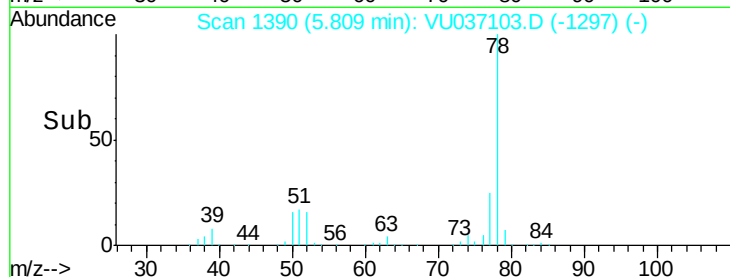
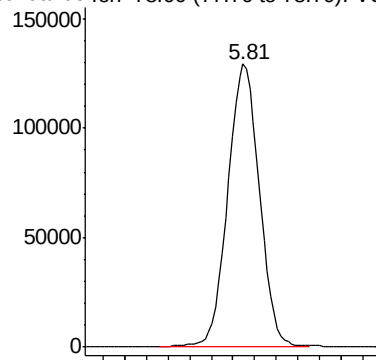
MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 263573



Abundance Ion 78.00 (77.70 to 78.70): VU0



#37

1,2-Dichloropropane

Concen: 5.429 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU037103.D

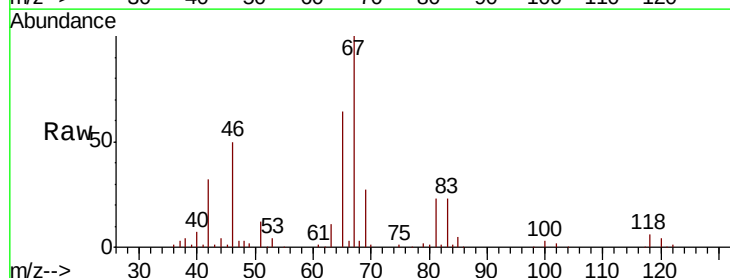
Acq: 06 Mar 2020 12:51

Tgt Ion: 63 Resp: 12176

Ion Ratio Lower Upper

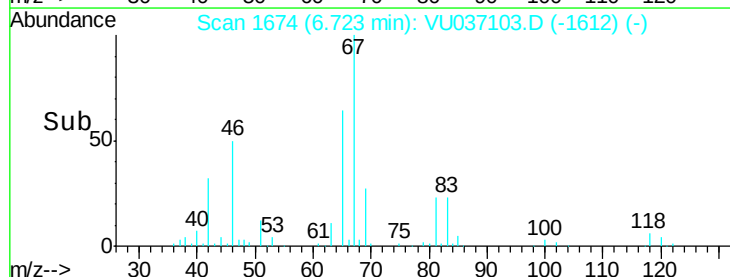
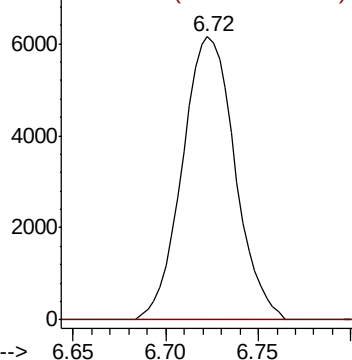
63 100

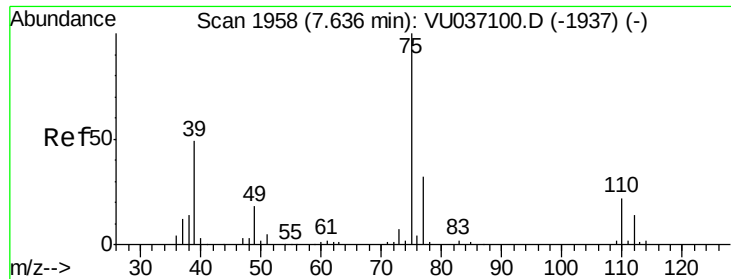
112 0.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V

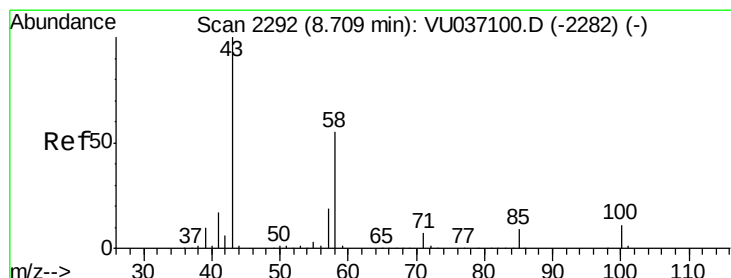
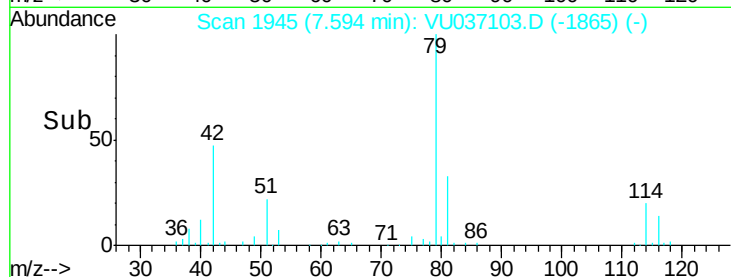
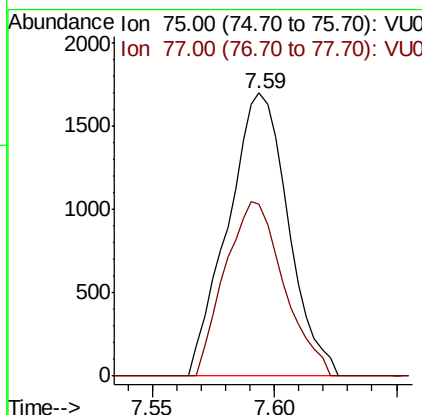
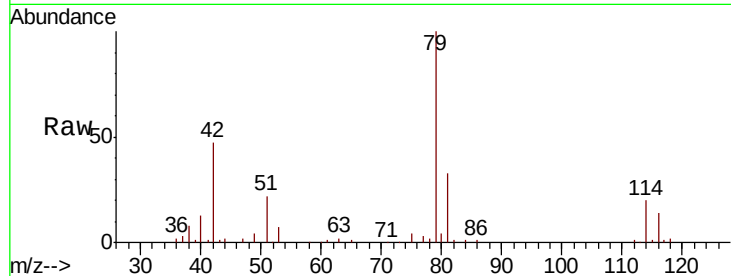




#39
 cis-1,3-Dichloropropene
 Concen: 0.842 ug/L
 RT: 7.59 min Scan# 1945
 Delta R.T. -0.04 min
 Lab File: VU037103.D
 Acq: 06 Mar 2020 12:51

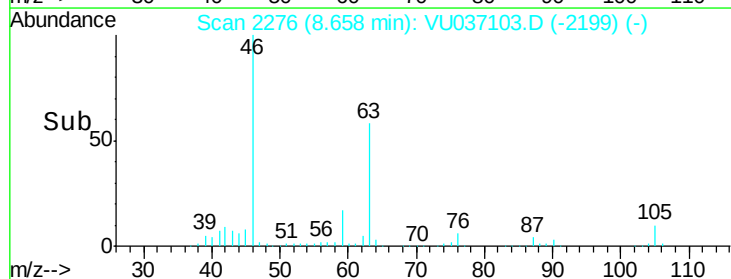
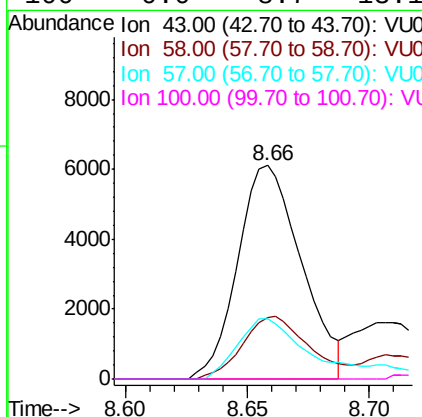
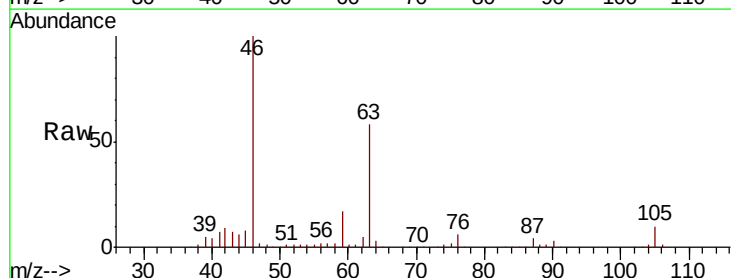
Instrument :
 MSVOA_U
 ClientSampleId :

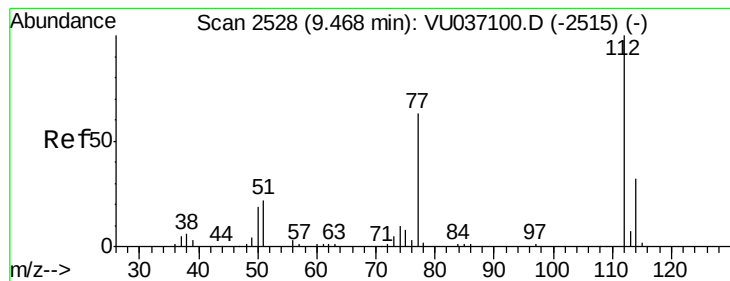
Tot Ion: 75 Resp: 2907
 Ion Ratio Lower Upper
 75 100
 77 60.9 22.0 41.0#



#48
 2-Hexanone
 Concen: 4.207 ug/L
 RT: 8.66 min Scan# 2276
 Delta R.T. -0.05 min
 Lab File: VU037103.D
 Acq: 06 Mar 2020 12:51

Tgt Ion: 43 Resp: 11093
 Ion Ratio Lower Upper
 43 100
 58 30.2 43.5 65.3#
 57 31.0 15.1 22.7#
 100 0.0 8.7 13.1#





#51

Chlorobenzene

Concen: 58.545 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. 0.00 min

Lab File: VU037103.D

Acq: 06 Mar 2020 12:51

Instrument :

MSVOA_U

ClientSampleId :

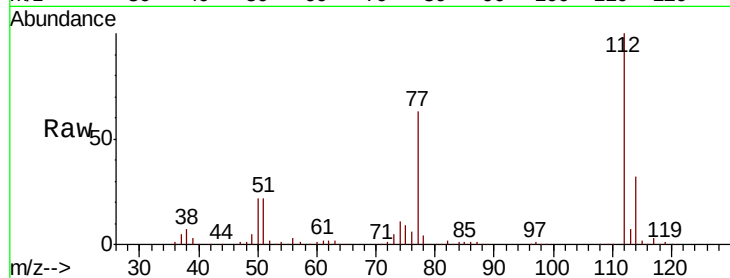
Tot Ion:112 Resp: 307811

Ion Ratio Lower Upper

112 100

114 31.5 22.3 41.5

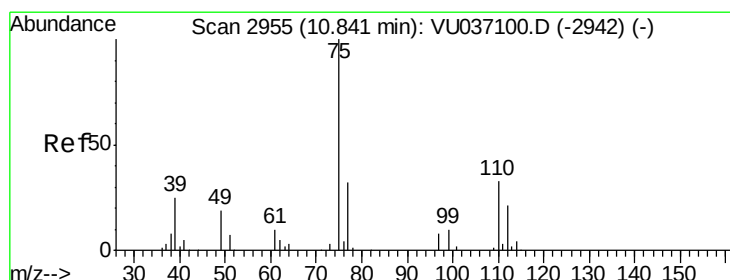
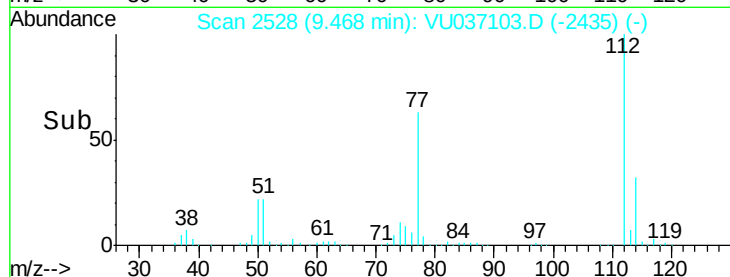
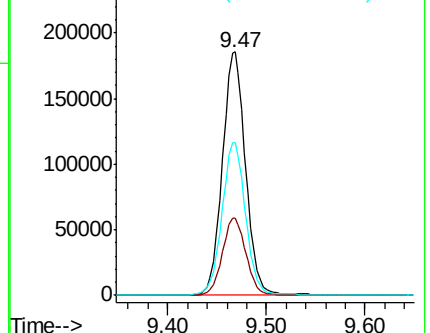
77 62.9 50.1 75.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#59

1,2,3-Trichloropropane

Concen: 4.704 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.92 min

Lab File: VU037103.D

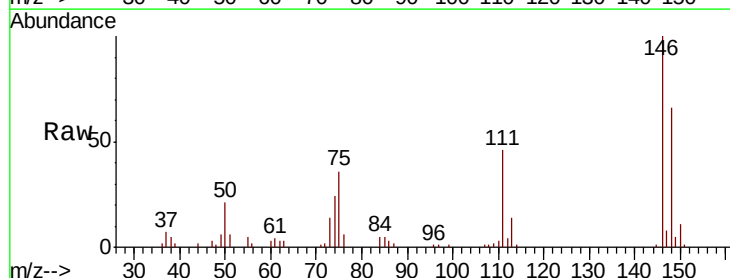
Acq: 06 Mar 2020 12:51

Tgt Ion: 75 Resp: 13570

Ion Ratio Lower Upper

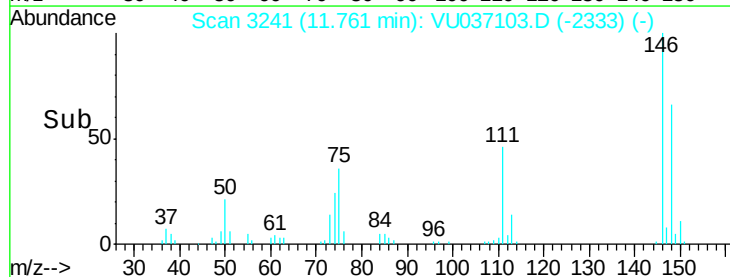
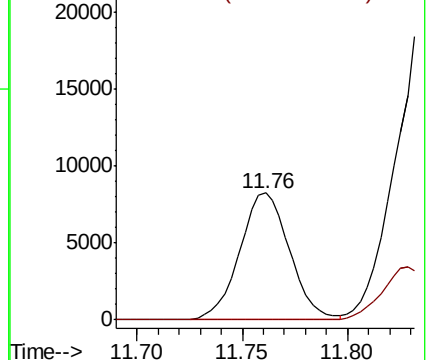
75 100

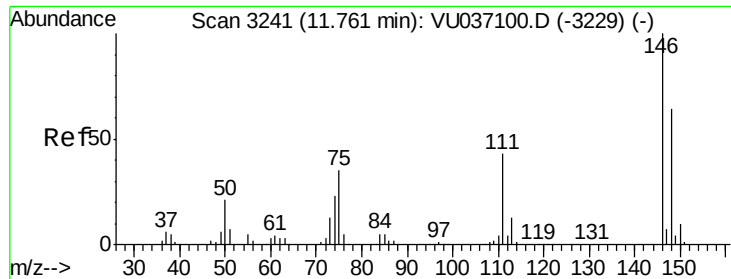
77 0.0 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

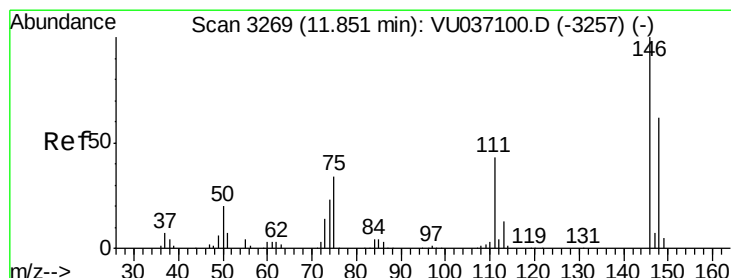
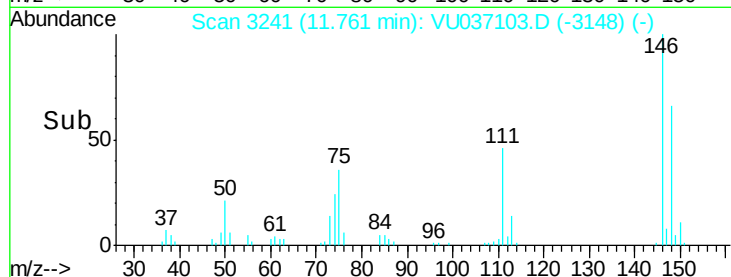
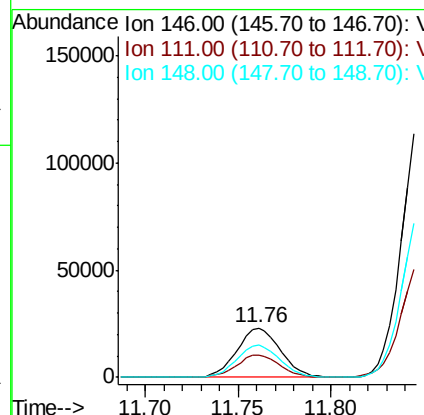
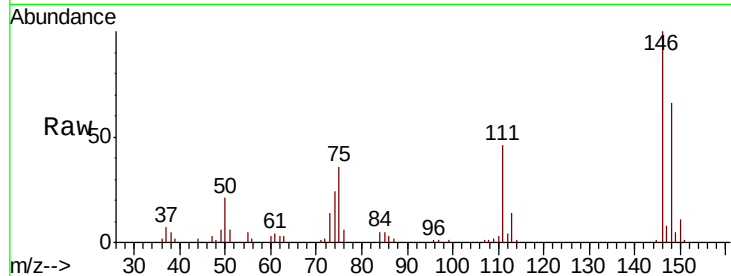




#62
 1,3-Dichlorobenzene
 Concen: 11.188 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037103.D
 Acq: 06 Mar 2020 12:51

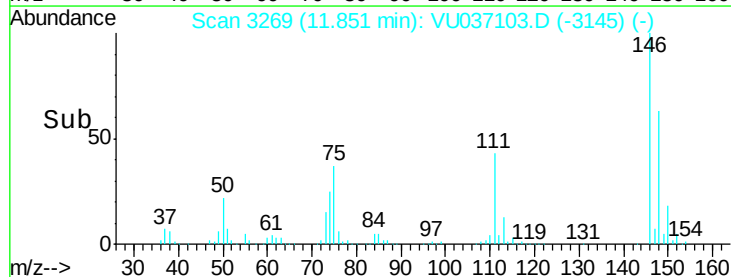
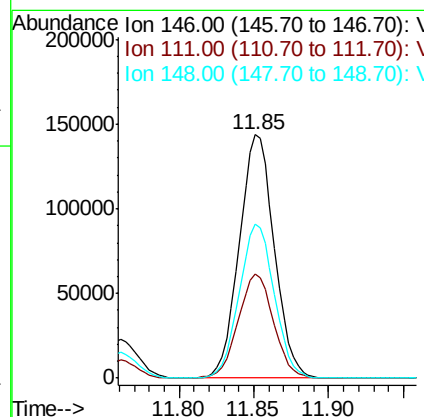
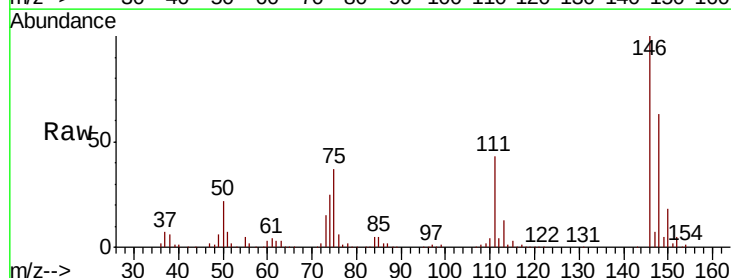
Instrument :
 MSVOA_U
 ClientSampled :

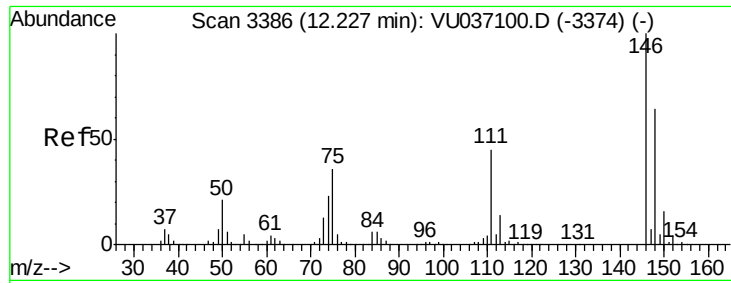
Tot Ion:146 Resp: 37369
 Ion Ratio Lower Upper
 146 100
 111 46.2 30.7 56.9
 148 65.7 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 70.844 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037103.D
 Acq: 06 Mar 2020 12:51

Tgt Ion:146 Resp: 233791
 Ion Ratio Lower Upper
 146 100
 111 42.7 29.8 55.4
 148 63.1 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 79.336 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037103.D

Acq: 06 Mar 2020 12:51

Instrument :

MSVOA_U

ClientSampled :

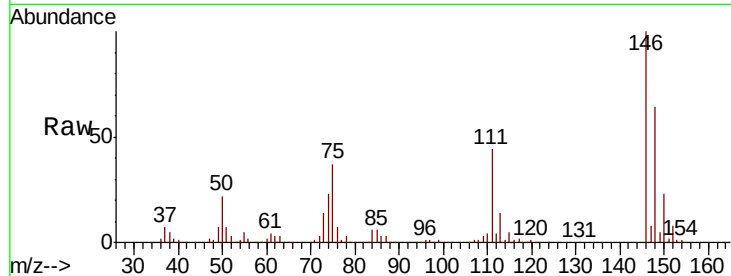
Tot Ion:146 Resp: 264592

Ion Ratio Lower Upper

146 100

111 44.0 35.4 53.0

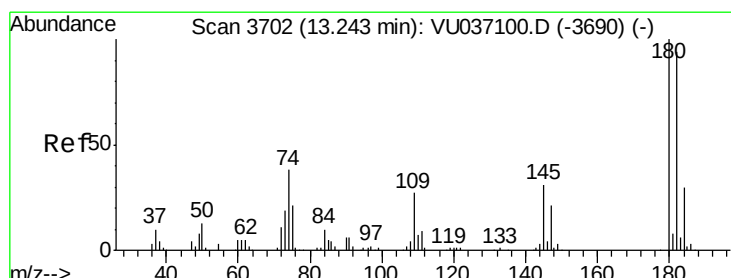
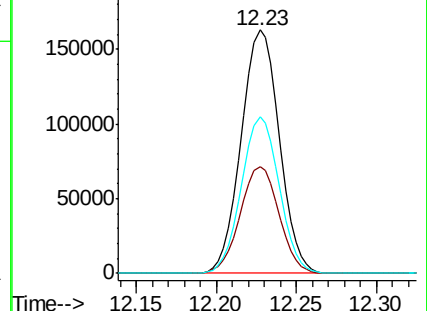
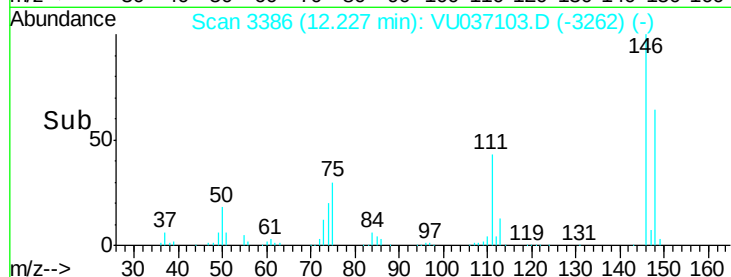
148 64.1 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): 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: 11.637 ug/L

RT: 13.87 min Scan# 3897

Delta R.T. 0.63 min

Lab File: VU037103.D

Acq: 06 Mar 2020 12:51

Tgt Ion:180 Resp: 24673

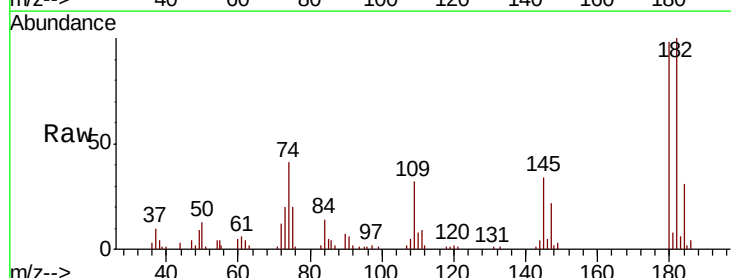
Ion Ratio Lower Upper

180 100

182 99.7 76.9 115.3

184 30.7 24.2 36.2

145 34.0 25.3 37.9

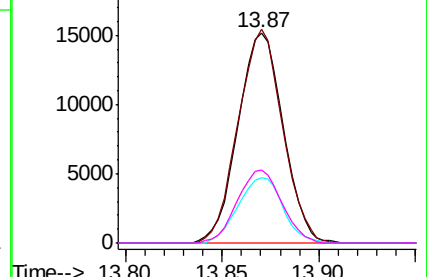
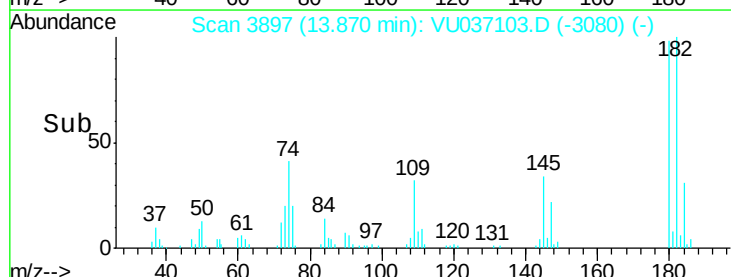


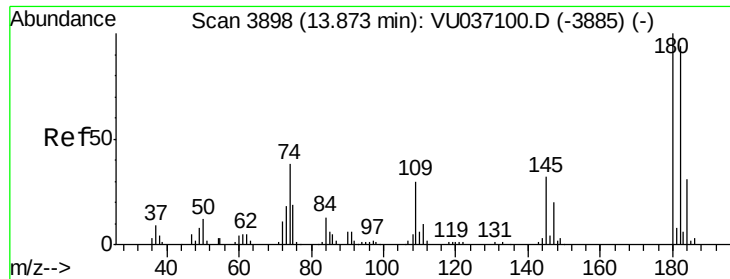
Abundance Ion 180.00 (179.70 to 180.70): V

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

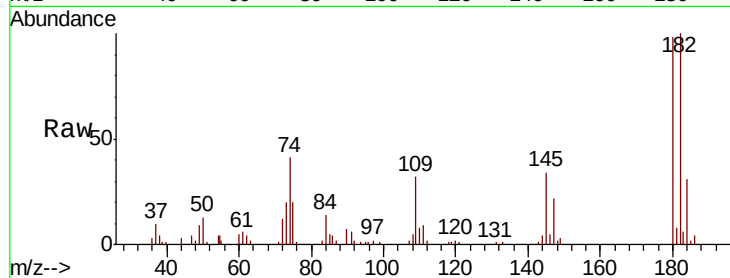




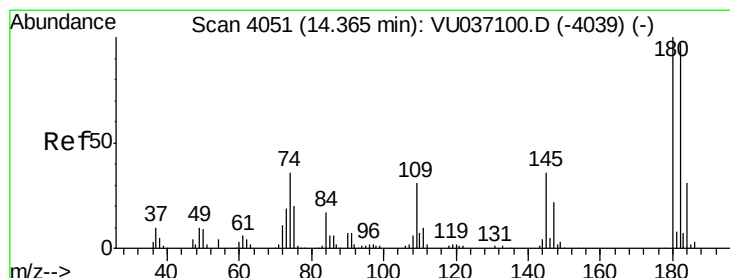
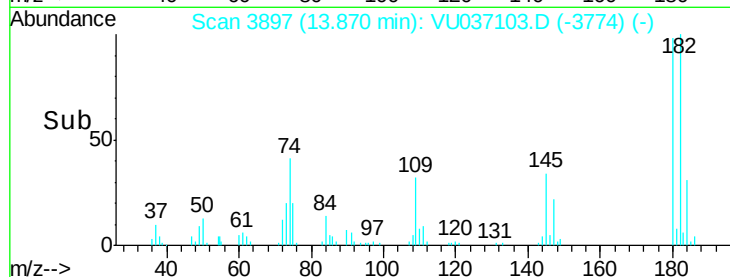
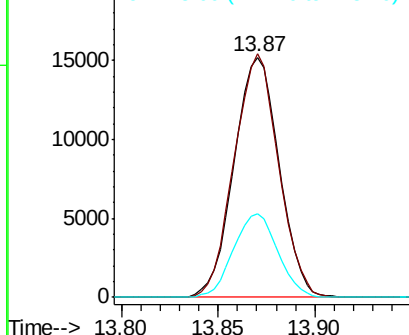
#68
 1,2,4-trichlorobenzene
 Concen: 15.533 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. -0.00 min
 Lab File: VU037103.D
 Acq: 06 Mar 2020 12:51

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 24673
 Ion Ratio Lower Upper
 180 100
 182 99.7 75.3 112.9
 145 34.0 26.2 39.4

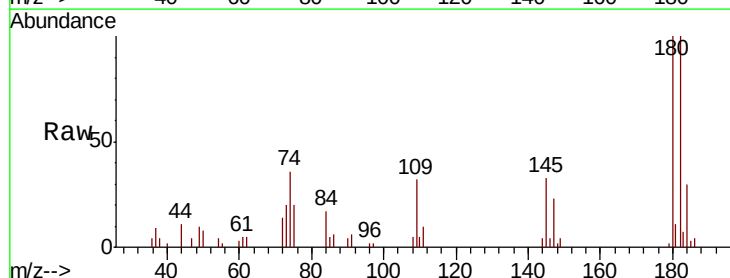


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



#70
 1,2,3-Trichlorobenzene
 Concen: 5.262 ug/L
 RT: 14.36 min Scan# 4050
 Delta R.T. -0.00 min
 Lab File: VU037103.D
 Acq: 06 Mar 2020 12:51

Tgt Ion:180 Resp: 8352
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.0 115.6
 145 34.0 28.1 42.1



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

