

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043020\
 Data File : VU037950.D
 Acq On : 30 Apr 2020 13:49
 Operator : JC/MD
 Sample : L2321-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2M09

Quant Time: May 01 10:02:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM043020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 01 02:16:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	632005	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	629215	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	304497	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	285785	51.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.82%
7) Chloroethane-d5	1.91	69	231139	51.11	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.22%
11) 1,1-Dichloroethene-d2	2.58	63	345372	37.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.96%
21) 2-Butanone-d5	4.66	46	369860	85.13	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	85.13%
24) Chloroform-d	5.10	84	427625	49.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.36%
26) 1,2-Dichloroethane-d4	5.74	65	310789	51.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.96%
32) Benzene-d6	5.76	84	956811	51.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.18%
36) 1,2-Dichloropropane-d6	6.72	67	316176	51.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.84%
41) Toluene-d8	7.92	98	877416	51.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.14%
43) trans-1,3-Dichloropropene-	8.20	79	149594	51.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.76%
47) 2-Hexanone-d5	8.66	63	285112	106.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.61%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	449953	50.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.56%
64) 1,2-Dichlorobenzene-d4	12.21	152	328231	51.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	660823	104.361	ug/L	98
8) Chloroethane	1.93	64	260006	68.276	ug/L	98
9) Trichlorofluoromethane	2.14	101	387743	58.916	ug/L	100
17) trans-1,2-Dichloroethene	3.38	96	256370	57.366	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	1529200	102.840	ug/L	100
20) cis-1,2-Dichloroethene	4.70	96	129445	26.196	ug/L	99
25) Chloroform	5.12	83	288617	33.773	ug/L	99
27) 1,2-Dichloroethane	5.83	62	313400	44.350	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	366730	52.434	ug/L	99
33) Benzene	5.81	78	1448210	73.625	ug/L	100
34) Trichloroethene	6.57	95	459208	96.275	ug/L	99
37) 1,2-Dichloropropane	6.82	63	282138	53.649	ug/L	100
42) Toluene	8.00	91	2229439	107.880	ug/L	99
46) Tetrachloroethene	8.57	164	245413	70.472	ug/L	99
48) 2-Hexanone	8.71	43	1059513	150.885	ug/L	98
49) Dibromochloromethane	8.83	129	88347	19.233	ug/L	99
50) 1,2-Dibromoethane	8.95	107	468702	91.606	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Fri May 01 02:16:47 2020
Response via : Initial Calibration

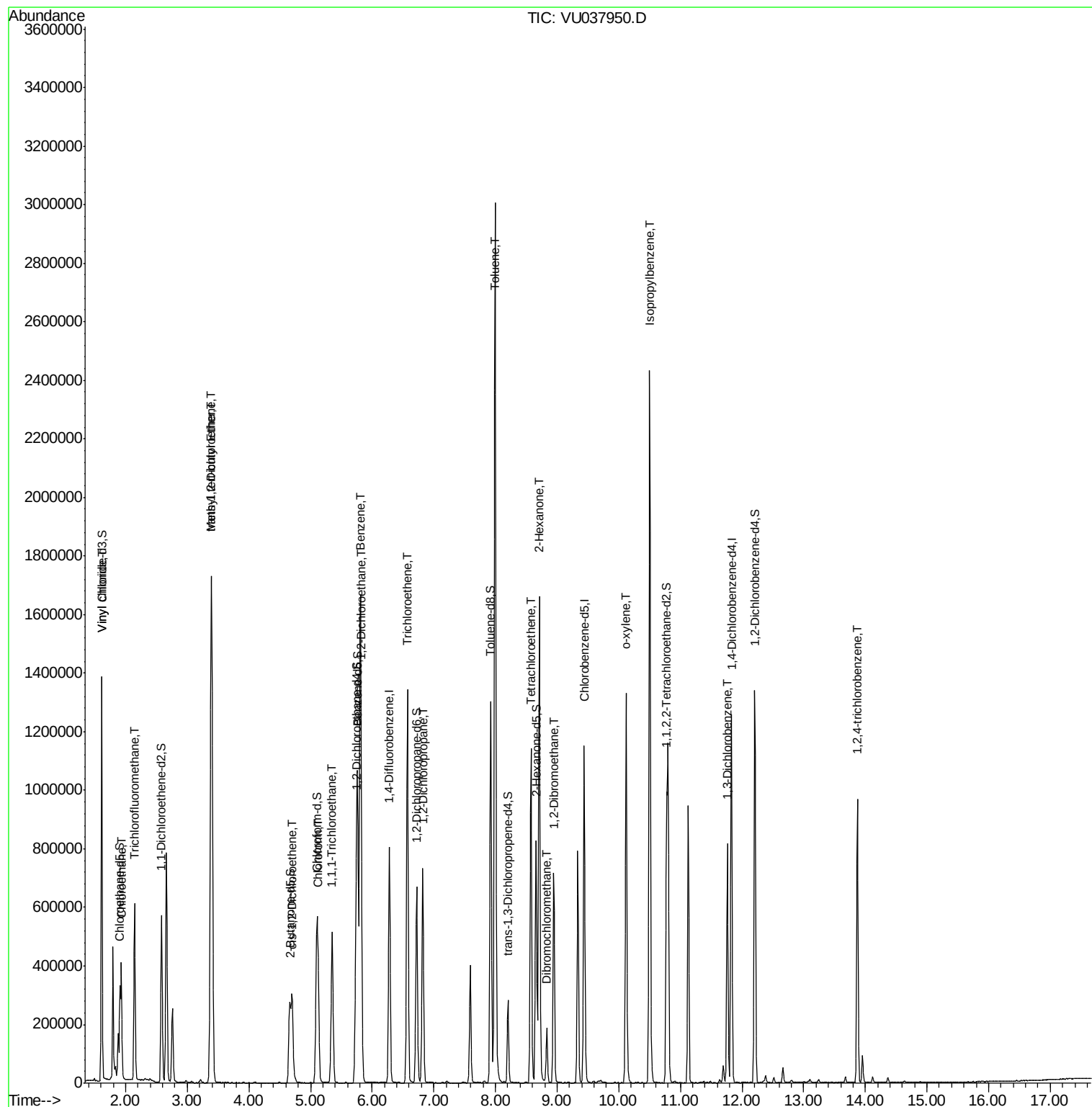
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	10.12	106	371504	43.381	ug/L	97
56) Isopropylbenzene	10.50	105	1626899	73.781	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	315145	32.326	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	274114	43.029	ug/L	99

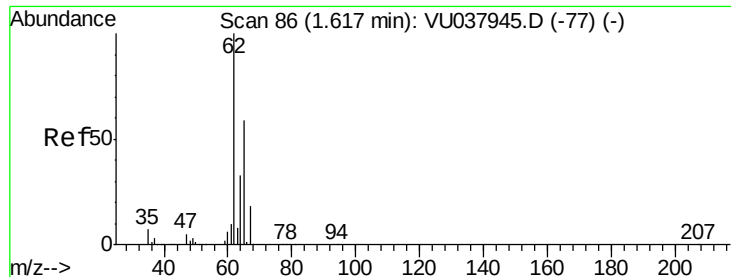
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#5

Vinyl chloride

Concen: 104.361 ug/L

RT: 1.61 min Scan# 85

Delta R.T. -0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

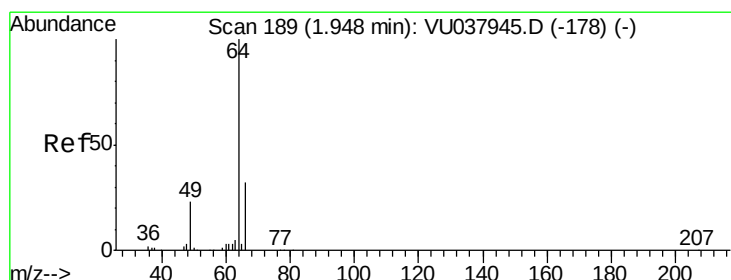
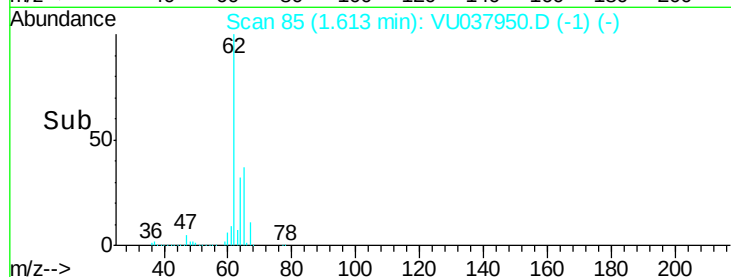
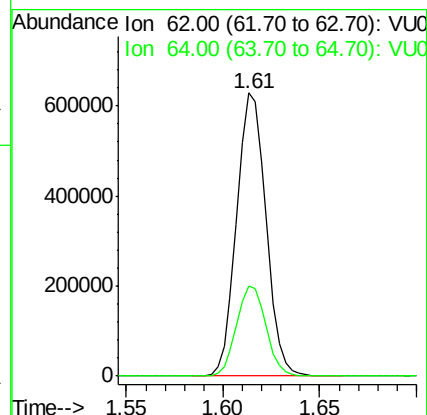
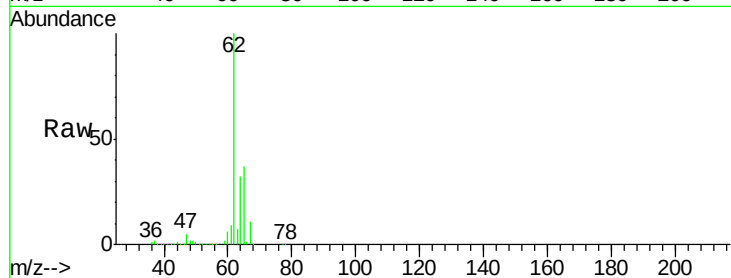
X2M09

Tot Ion: 62 Resp: 660823

Ion Ratio Lower Upper

62 100

64 32.1 23.2 43.2



#8

Chloroethane

Concen: 68.276 ug/L

RT: 1.93 min Scan# 184

Delta R.T. -0.02 min

Lab File: VU037950.D

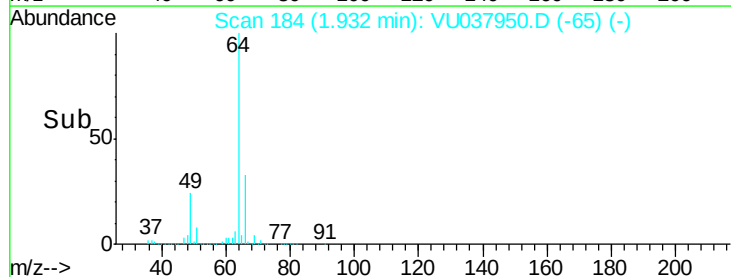
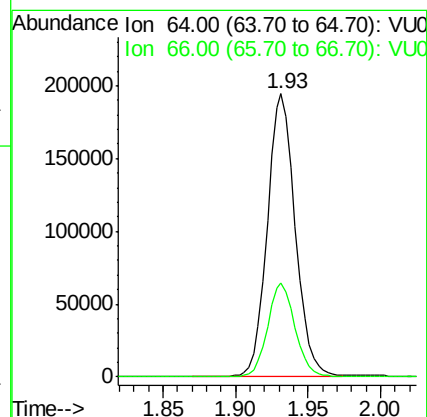
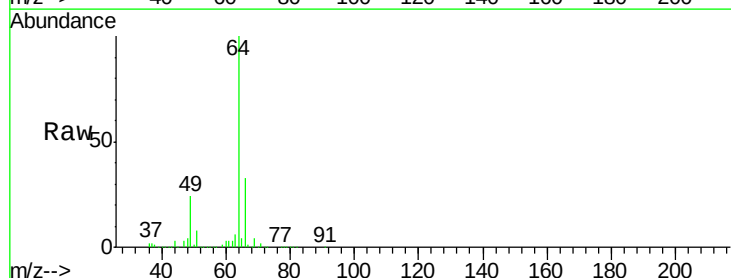
Acq: 30 Apr 2020 13:49

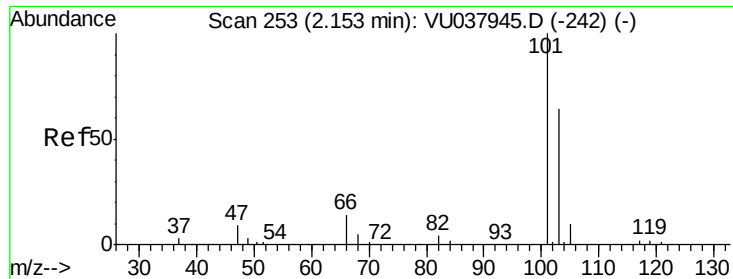
Tgt Ion: 64 Resp: 260006

Ion Ratio Lower Upper

64 100

66 33.1 22.5 41.7



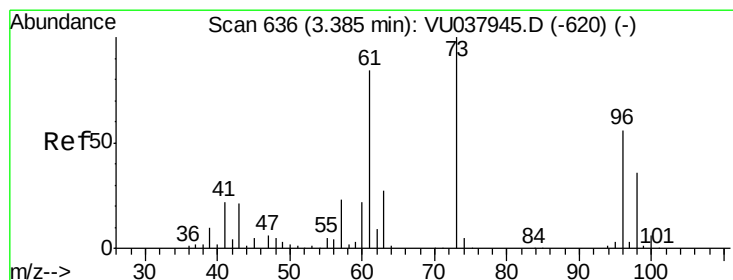
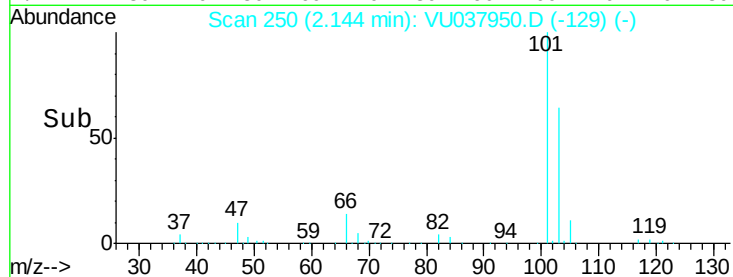
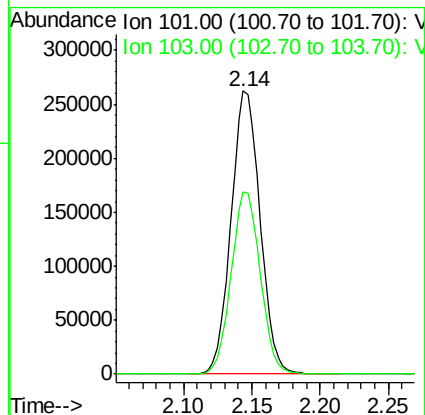
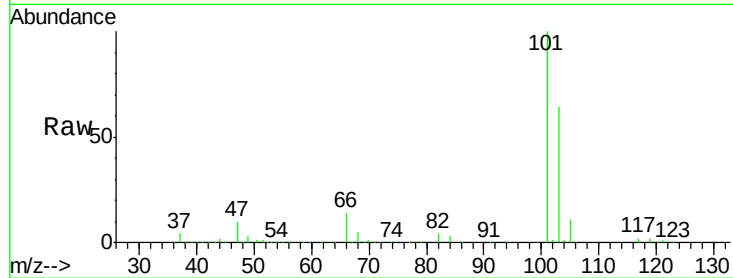


#9

Trichlorofluoromethane
 Concen: 58.916 ug/L
 RT: 2.14 min Scan# 250
 Delta R.T. -0.01 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 X2M09

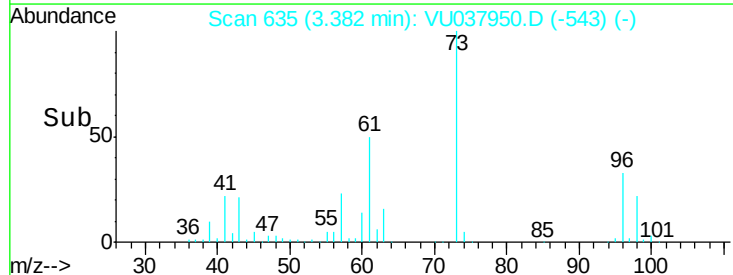
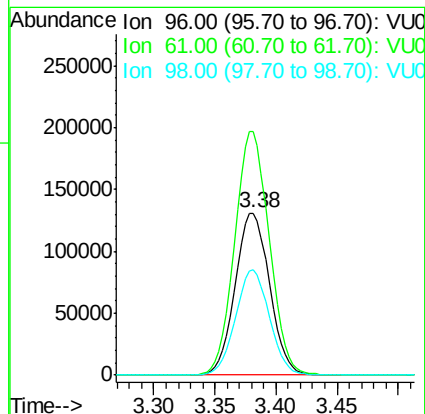
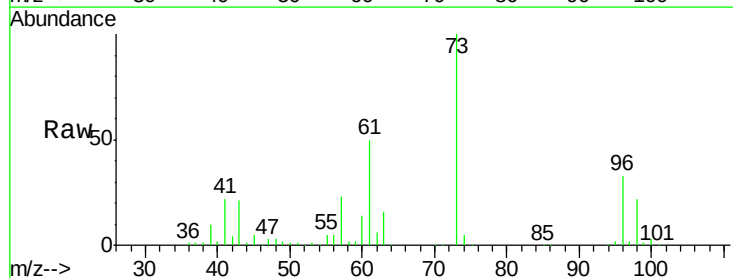
Tot Ion:101 Resp: 387743
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.4 77.0

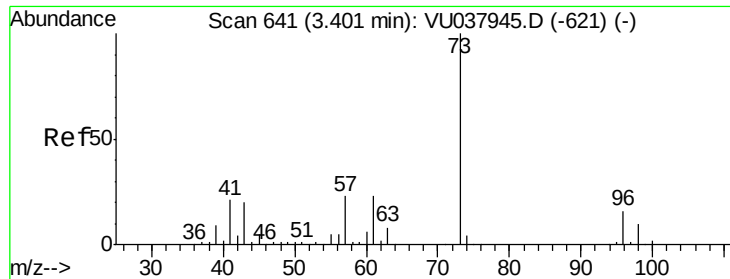


#17

trans-1,2-Dichloroethene
 Concen: 57.366 ug/L
 RT: 3.38 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion: 96 Resp: 256370
 Ion Ratio Lower Upper
 96 100
 61 150.5 104.9 194.9
 98 65.5 44.6 82.8

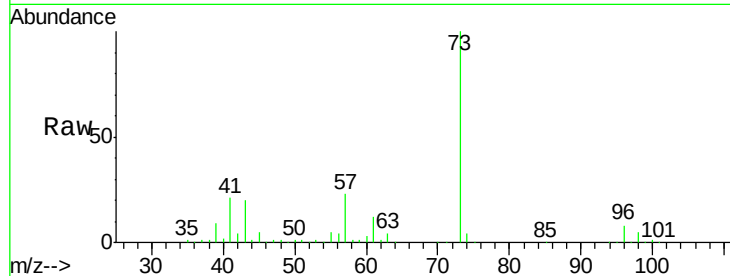




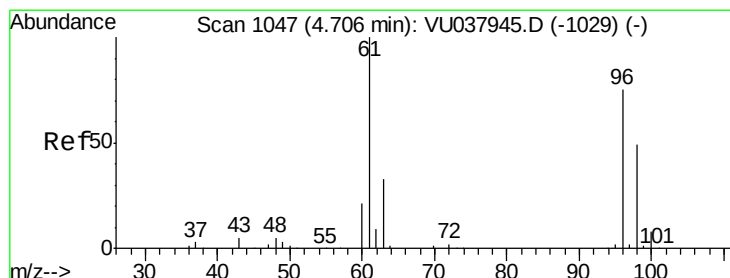
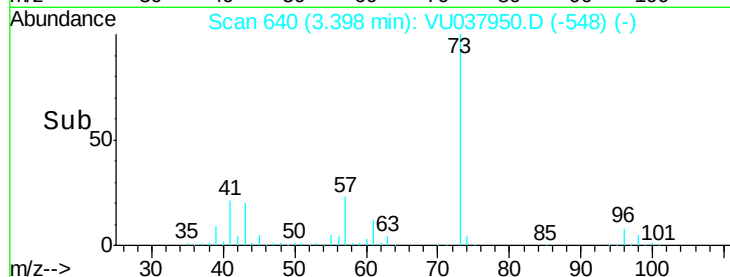
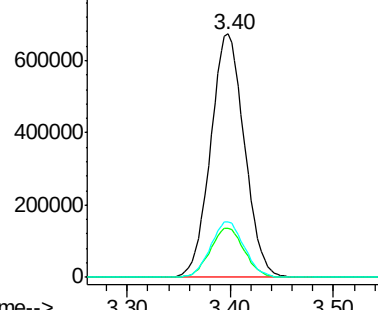
#18
Methyl tert-butyl Ether
Concen: 102.840 ug/L
RT: 3.40 min Scan# 640
Delta R.T. -0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Instrument :
MSVOA_U
ClientSampled :
X2M09

Tot Ion: 73 Resp: 1529200
Ion Ratio Lower Upper
73 100
43 20.5 16.3 24.5
57 22.8 18.4 27.6

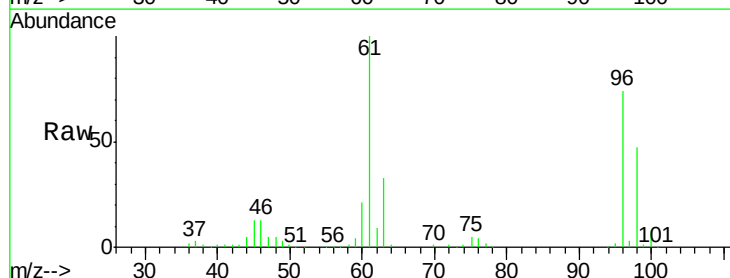


Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

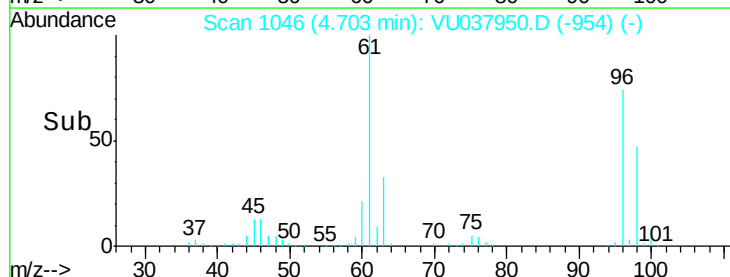
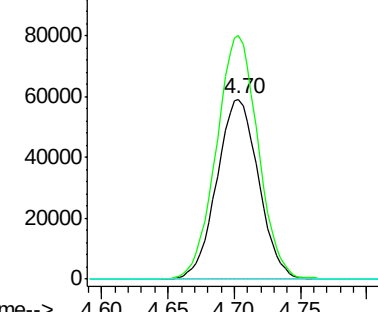


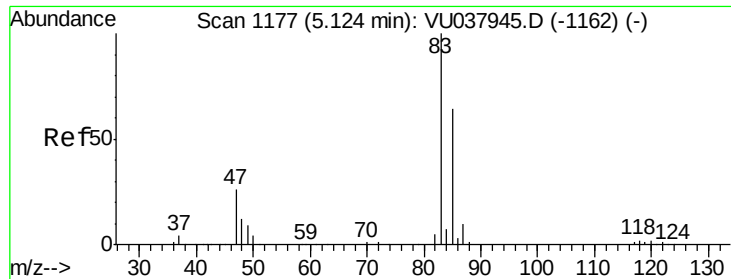
#20
cis-1,2-Dichloroethene
Concen: 26.196 ug/L
RT: 4.70 min Scan# 1046
Delta R.T. -0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Tgt Ion: 96 Resp: 129445
Ion Ratio Lower Upper
96 100
61 135.2 93.9 174.3
68 0.0 0.0 0.0



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

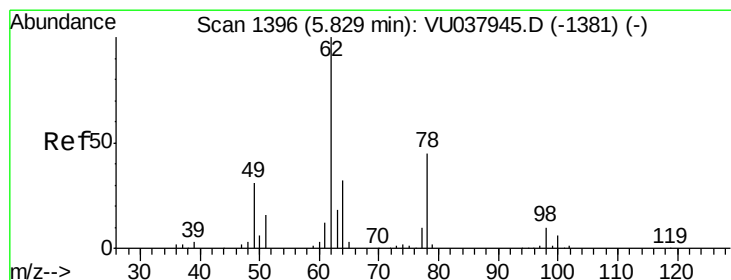
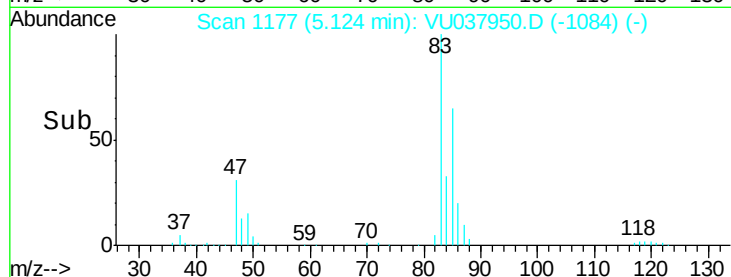
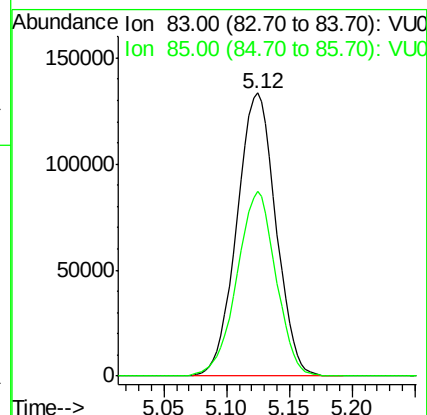
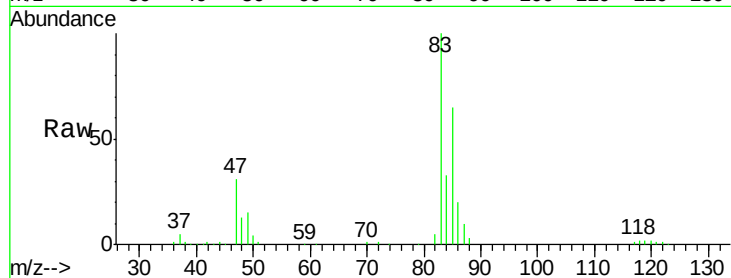




#25
Chloroform
Concen: 33.773 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

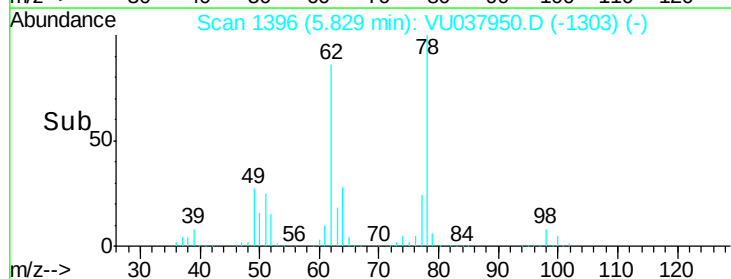
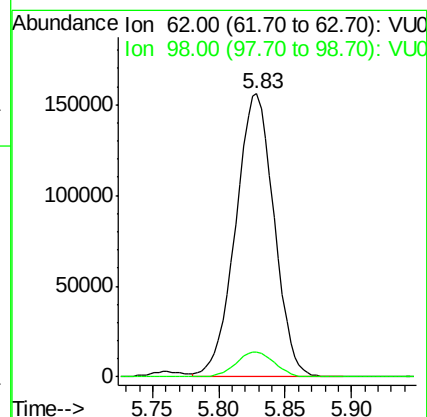
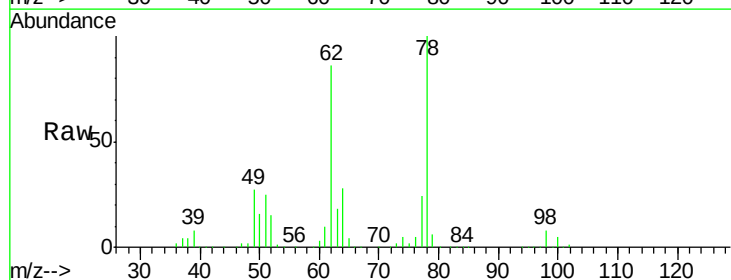
Instrument :
MSVOA_U
ClientSampled :
X2M09

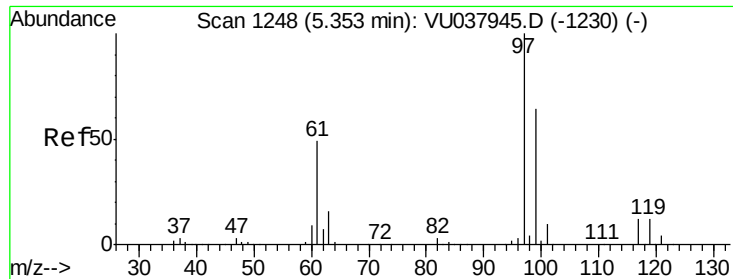
Tot Ion: 83 Resp: 288617
Ion Ratio Lower Upper
83 100
85 65.3 45.0 83.6



#27
1,2-Dichloroethane
Concen: 44.350 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Tgt Ion: 62 Resp: 313400
Ion Ratio Lower Upper
62 100
98 9.0 7.6 11.4

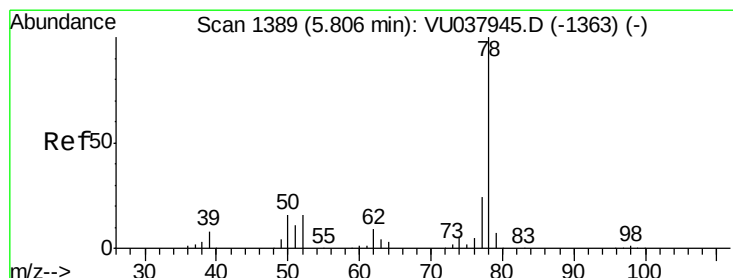
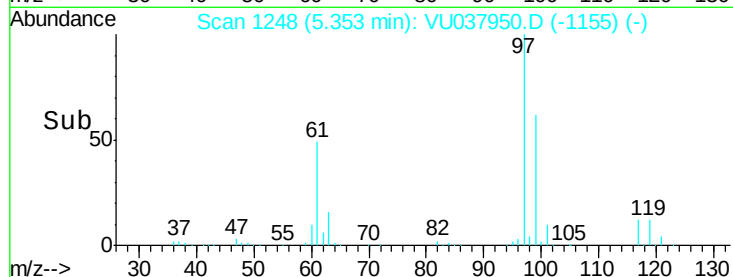
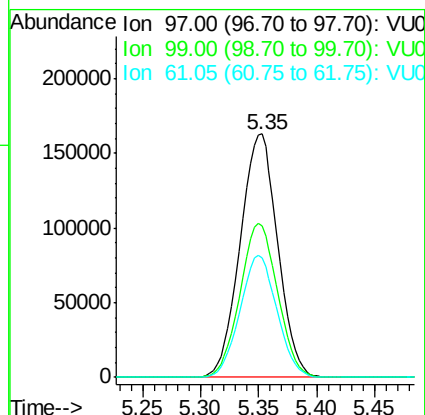
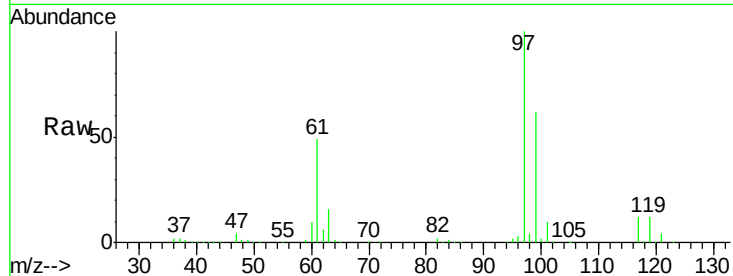




#30
 1,1,1-Trichloroethane
 Concen: 52.434 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

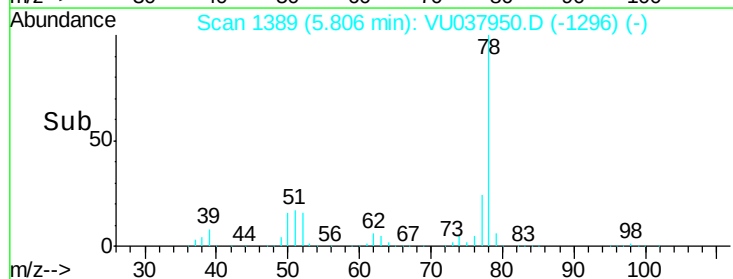
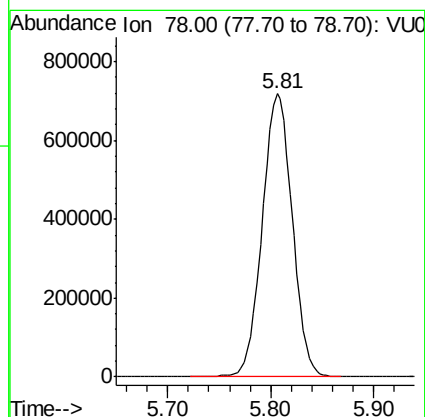
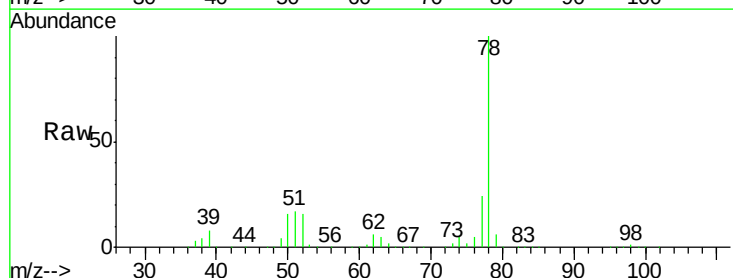
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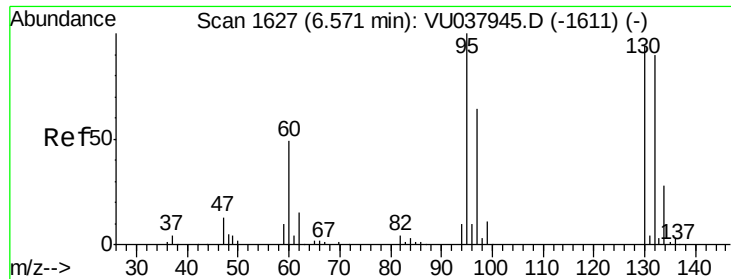
Tot Ion: 97 Resp: 366730
 Ion Ratio Lower Upper
 97 100
 99 63.3 50.5 75.7
 61 49.4 38.8 58.2



#33
 Benzene
 Concen: 73.625 ug/L
 RT: 5.81 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion: 78 Resp: 1448210

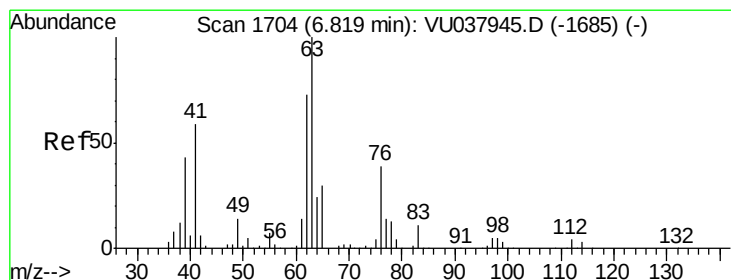
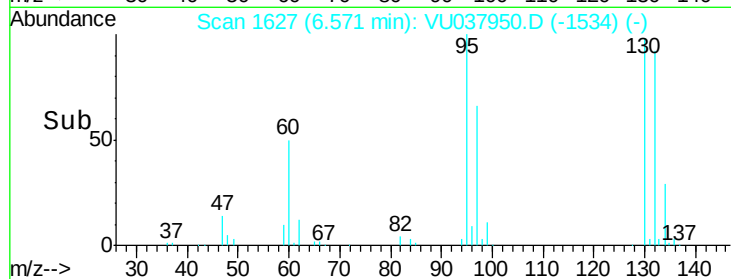
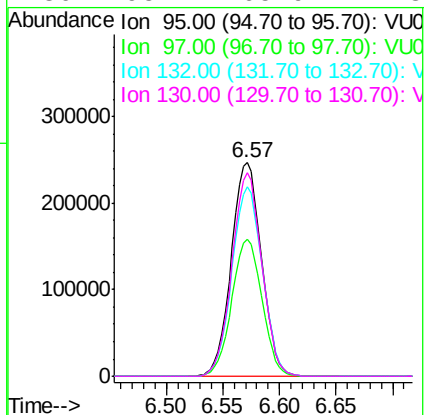
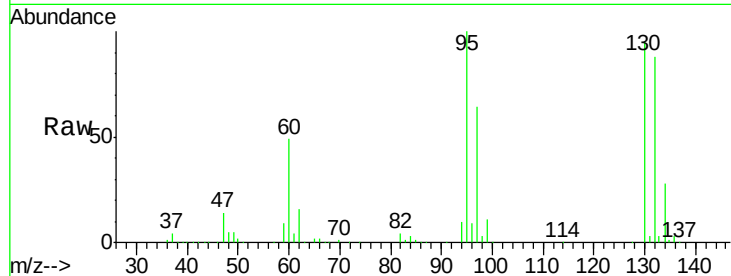




#34
 Trichloroethene
 Concen: 96.275 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

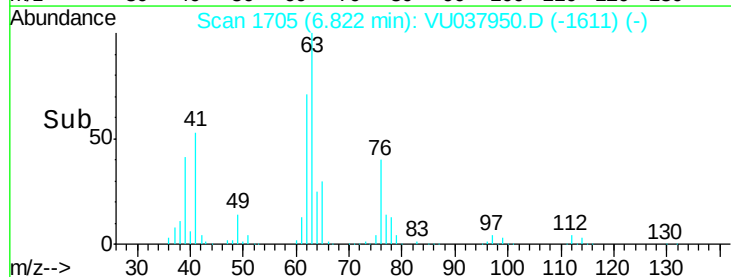
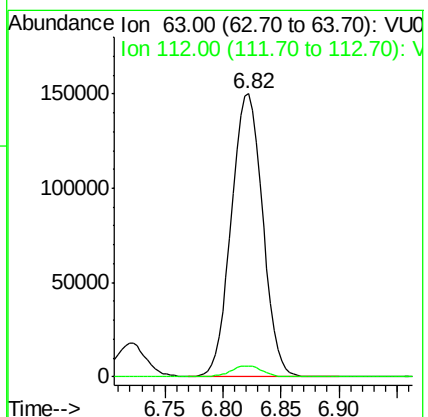
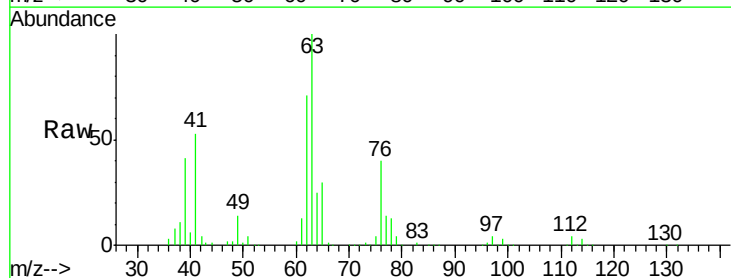
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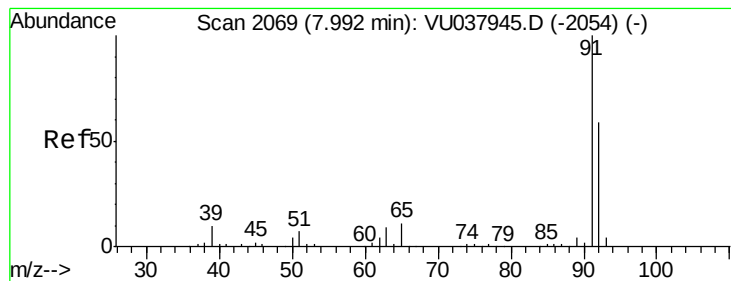
Tot Ion:	95	Resp:	459208
Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.9	83.5
132	88.5	63.2	117.4
130	95.1	65.9	122.3



#37
 1,2-Dichloropropane
 Concen: 53.649 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion:	63	Resp:	282138
Ion	Ratio	Lower	Upper
63	100		
112	3.9	3.1	4.7





#42

Toluene

Concen: 107.880 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampled :

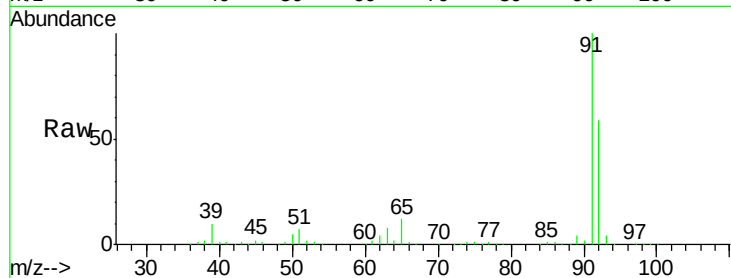
X2M09

Tot Ion: 91 Resp: 2229439

Ion Ratio Lower Upper

91 100

92 58.8 41.5 77.1



Abundance Ion 91.00 (90.70 to 91.70): VU037950.D (-2070) (-)

Ion 92.00 (91.70 to 92.70): VU037950.D (-2070) (-)

8.00

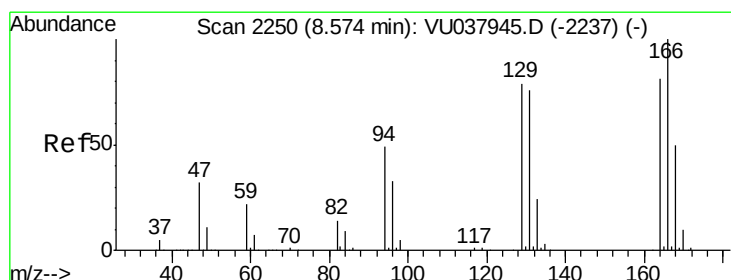
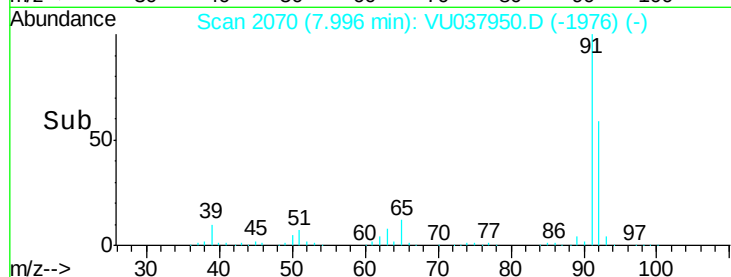
1500000

1000000

500000

0

Time-->



#46

Tetrachloroethene

Concen: 70.472 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Tgt Ion:164 Resp: 245413

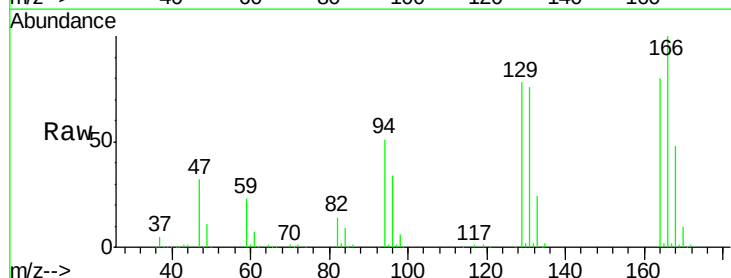
Ion Ratio Lower Upper

164 100

129 97.3 68.4 127.0

131 95.1 65.7 122.1

166 125.3 86.7 161.1



Abundance Ion 164.00 (163.70 to 164.70): VU037950.D (-2250) (-)

Ion 129.00 (128.70 to 129.70): VU037950.D (-2250) (-)

Ion 131.00 (130.70 to 131.70): VU037950.D (-2250) (-)

Ion 166.00 (165.70 to 166.70): VU037950.D (-2250) (-)

8.57

250000

200000

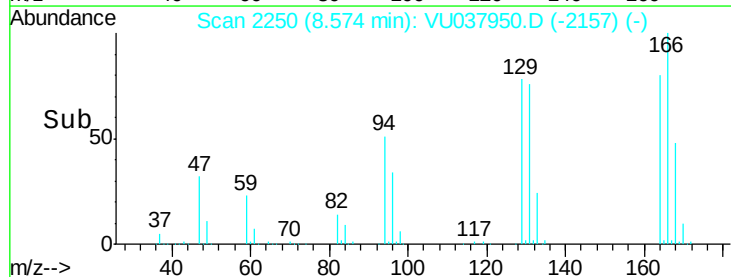
150000

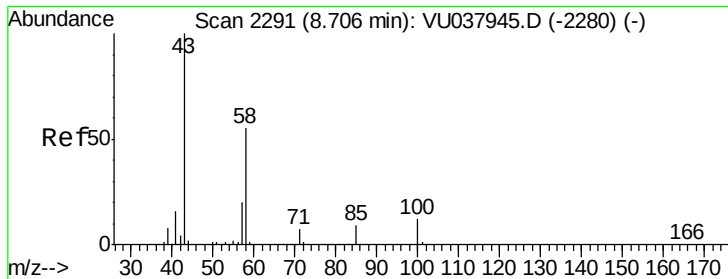
100000

50000

0

Time-->

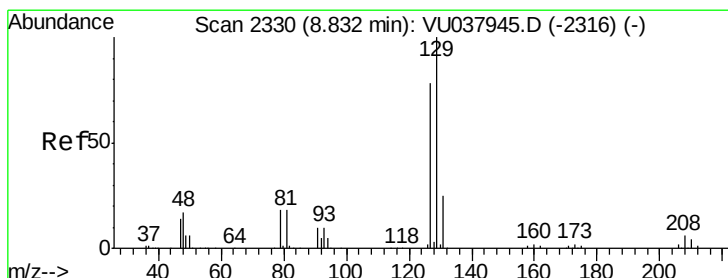
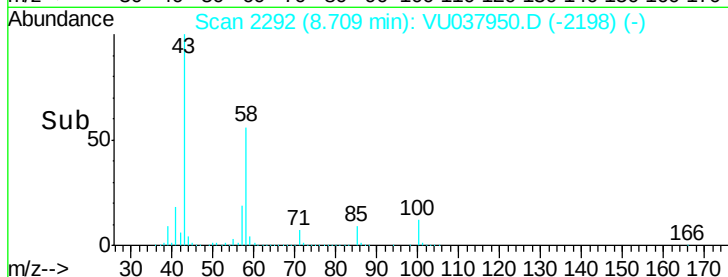
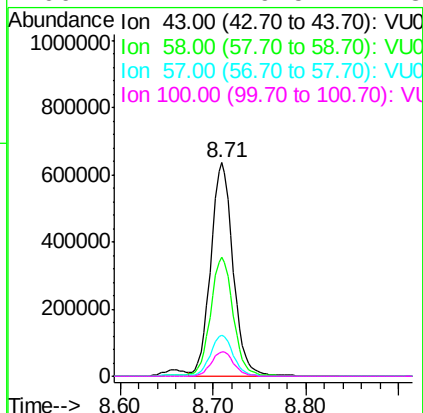
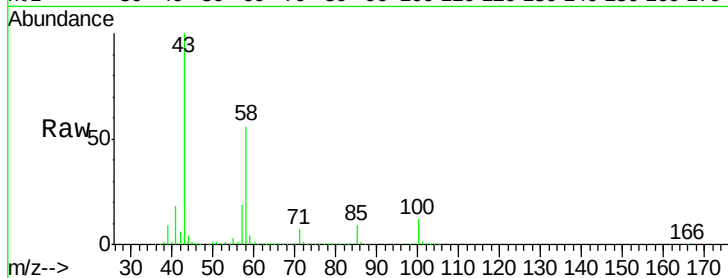




#48
2-Hexanone
Concen: 150.885 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

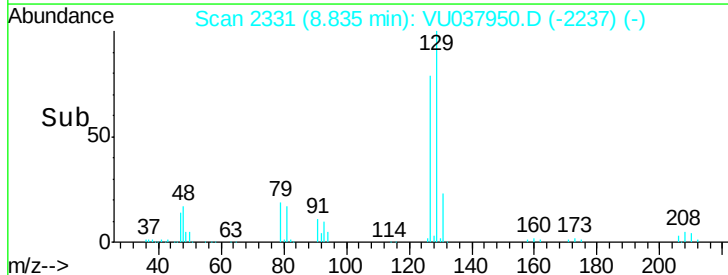
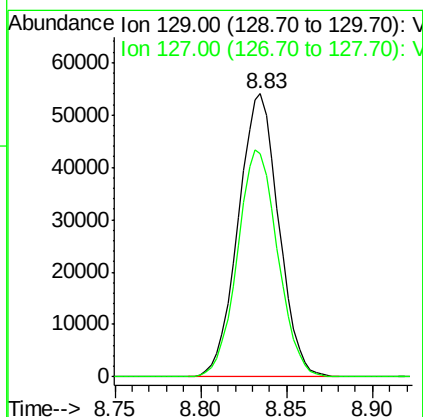
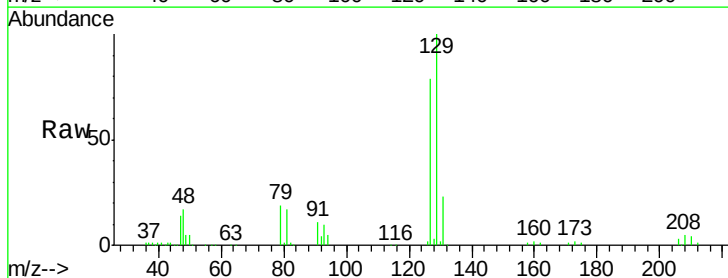
Instrument :
MSVOA_U
ClientSampled :
X2M09

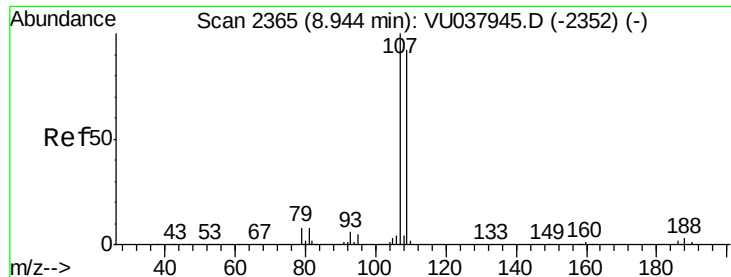
Tot Ion: 43 Resp: 1059513
Ion Ratio Lower Upper
43 100
58 56.5 46.4 69.6
57 19.4 16.4 24.6
100 11.7 9.5 14.3



#49
Dibromochloromethane
Concen: 19.233 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Tgt Ion: 129 Resp: 88347
Ion Ratio Lower Upper
129 100
127 78.8 54.7 101.5

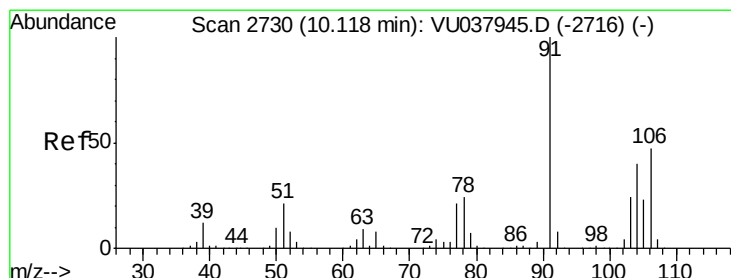
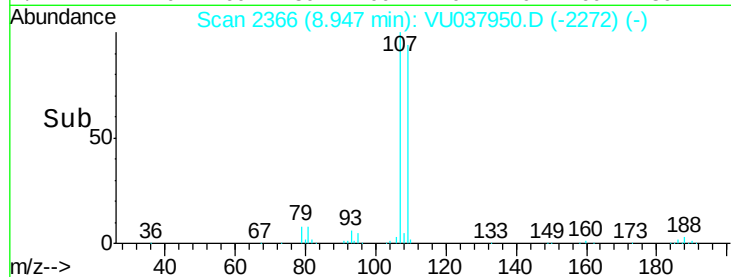
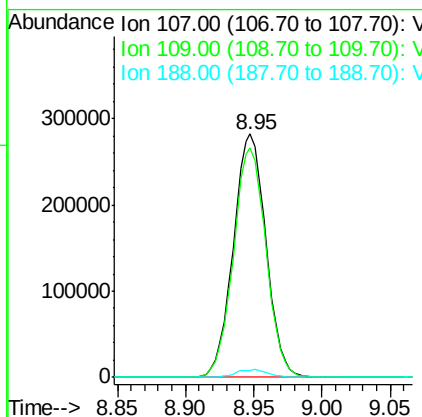
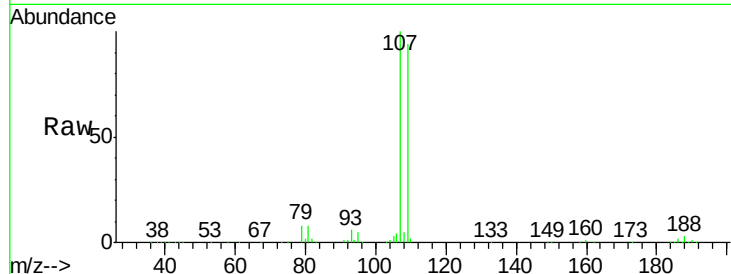




#50
 1,2-Dibromoethane
 Concen: 91.606 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

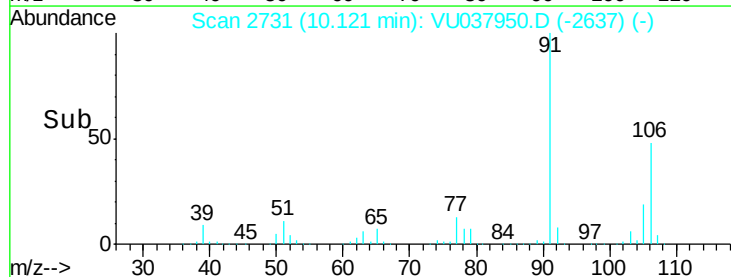
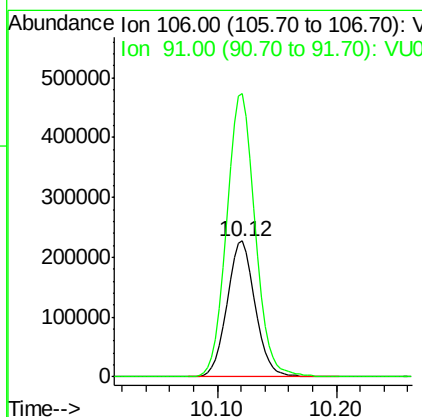
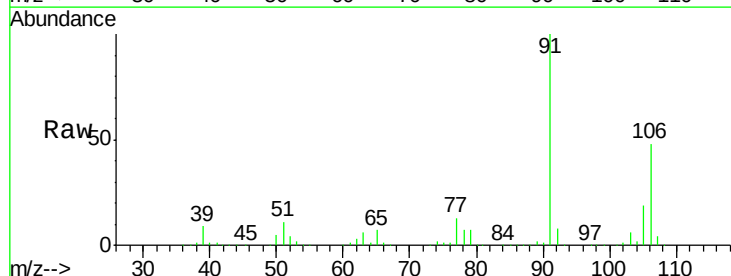
Instrument :
 MSVOA_U
 ClientSampleId :
 X2M09

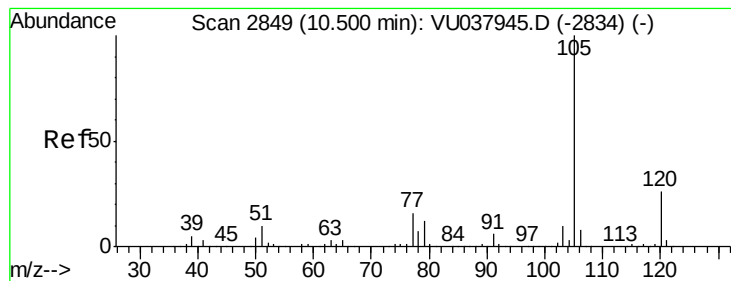
Tot Ion	107	Resp	468702
Ion Ratio	Lower	Upper	
107	100		
109	94.2	64.1	119.1
188	3.1	2.2	3.2



#54
 o-xylene
 Concen: 43.381 ug/L
 RT: 10.12 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion	106	Resp	371504
Ion Ratio	Lower	Upper	
106	100		
91	208.3	149.4	277.4





#56

Isopropylbenzene

Concen: 73.781 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampled :

X2M09

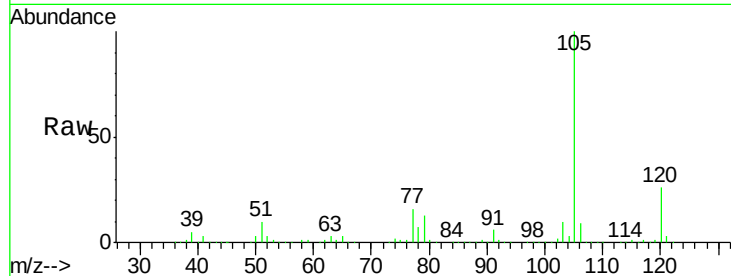
Tot Ion:105 Resp: 1626899

Ion Ratio Lower Upper

105 100

120 25.8 20.5 30.7

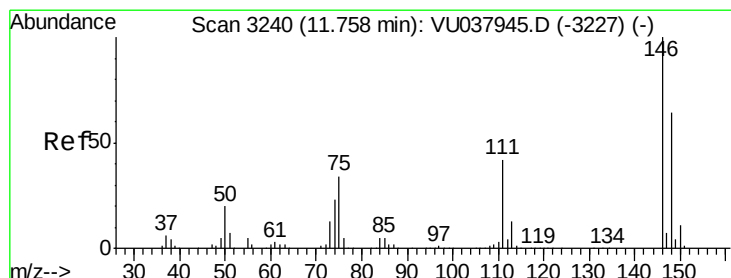
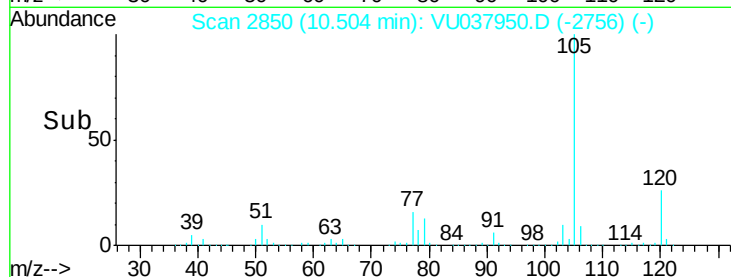
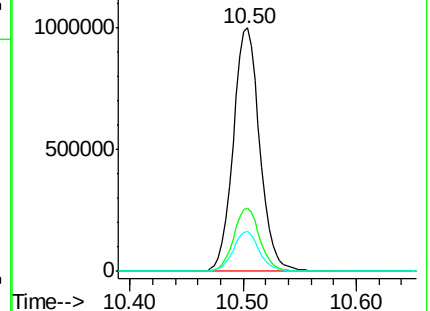
77 16.2 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#62

1,3-Dichlorobenzene

Concen: 32.326 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

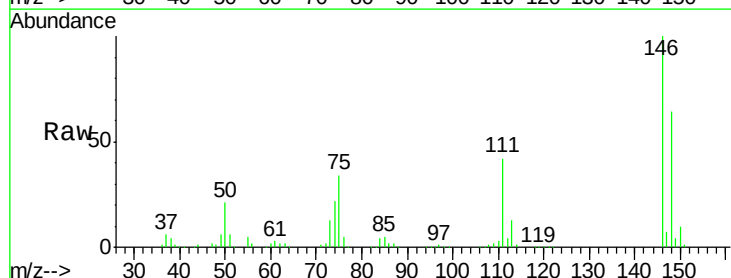
Tgt Ion:146 Resp: 315145

Ion Ratio Lower Upper

146 100

111 42.5 29.2 54.2

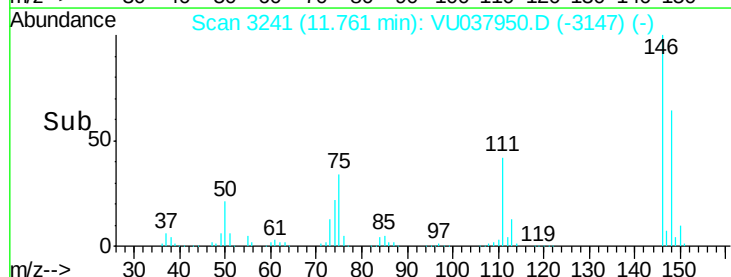
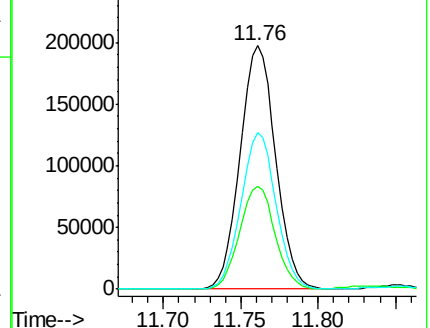
148 64.3 44.9 83.5

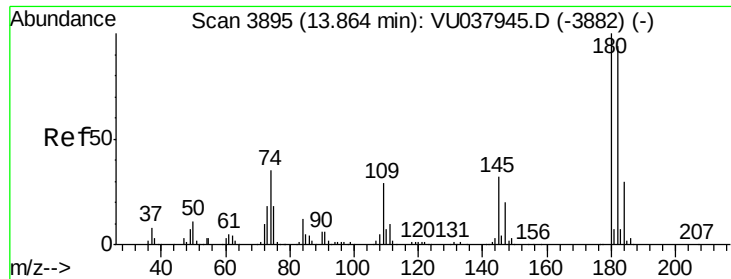


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

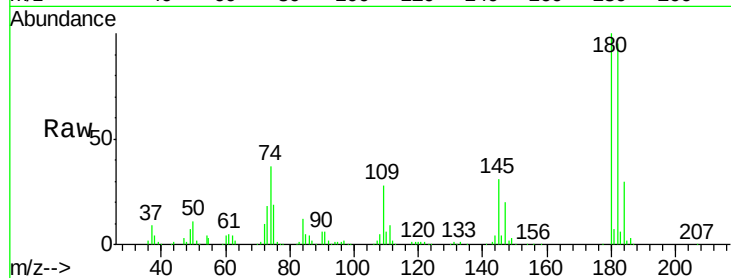




#68
 1,2,4-trichlorobenzene
 Concen: 43.029 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.01 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 X2M09

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	95.9	75.4	113.0	
145	31.4	25.3	37.9	



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

