

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101220\
 Data File : VU040662.D
 Acq On : 12 Oct 2020 16:33
 Operator : SY/MD
 Sample : L4345-12
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 YAQY4

Quant Time: Oct 13 04:42:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 13 04:32:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	120828	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	120887	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51398	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	41287	4.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.40%
7) Chloroethane-d5	1.92	69	35704	4.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.40%
11) 1,1-Dichloroethene-d2	2.58	63	64439	3.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.80%
20) 2-Butanone-d5	4.66	46	169542	52.92	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.84%
24) Chloroform-d	5.08	84	84311	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	5.72	65	52963	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.74	84	155186	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.70	67	54711	5.05	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.00%
41) Toluene-d8	7.91	98	125702	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.20%
43) trans-1,3-Dichloropropene-	8.19	79	21001	4.58	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.60%
46) 2-Hexanone-d5	8.64	63	117768	49.84	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.68%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46416	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	49765	5.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.40%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	514	0.050 ug/L	99
8) Chloroethane	1.96	64	308	0.045 ug/L #	41
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	502	0.050 ug/L #	20
12) 1,1-Dichloroethene	2.58	96	613	0.071 ug/L #	1
13) Acetone	2.67	43	212626	85.617 ug/L	99
14) Carbon disulfide	2.81	76	1948	0.081 ug/L #	76
22) cis-1,2-Dichloroethene	4.68	96	936	0.096 ug/L	87
25) Chloroform	5.11	83	3849	0.202 ug/L	99
27) 1,2-Dichloroethane	5.74	62	1042	0.077 ug/L #	77
34) Trichloroethene	6.56	95	326342	32.416 ug/L	96
35) Methylcyclohexane	6.70	83	12722	0.891 ug/L #	14
37) 1,2-Dichloropropane	6.71	63	6071	0.561 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1545	0.104 ug/L #	64
44) trans-1,3-Dichloropropene	8.19	75	962	0.071 ug/L	86
47) Tetrachloroethene	8.56	164	34241	4.767 ug/L	95
48) 2-Hexanone	8.64	43	19024	2.962 ug/L #	70
49) Dibromochloromethane	8.56	129	34280	3.676 ug/L #	9

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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

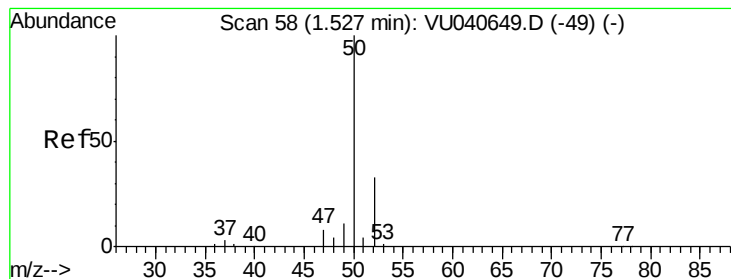
Instrument :
MSVOA_U
ClientSampleId :
YAQY4

Quant Time: Oct 13 04:42:18 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 13 04:32:46 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	7274	0.915	ug/L	95
67) 1,3,5-Trichlorobenzene	13.83	180	3655	0.306	ug/L	89
68) 1,2,4-trichlorobenzene	13.83	180	3655	0.396	ug/L	89
70) 1,2,3-Trichlorobenzene	14.32	180	1561	0.182	ug/L	96

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

```
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Operator  : SY/MD  
Sample    : L4345-12  
Misc      : 25.0mL/MSVOA U/WATER  
ALS Vial  : 17      Sample Multiplier: 1
```



#3

Chloromethane

Concen: 0.050 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040662.D

Acq: 12 Oct 2020 16:33

Instrument :

MSVOA_U

ClientSampled :

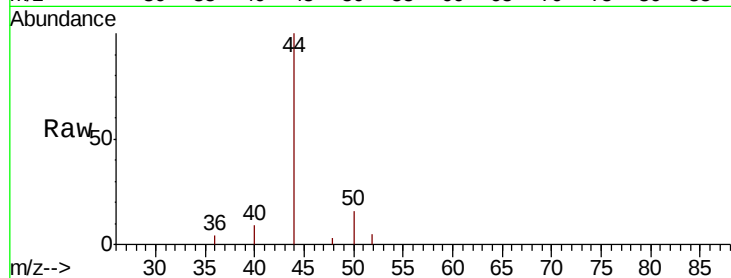
YAQY4

Tot Ion: 50 Resp: 514

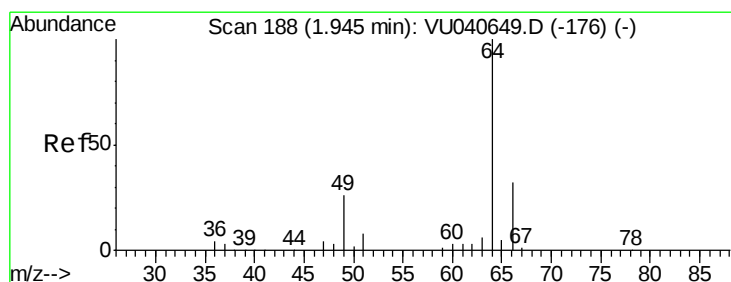
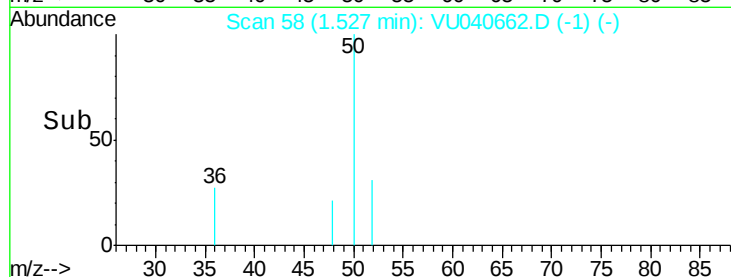
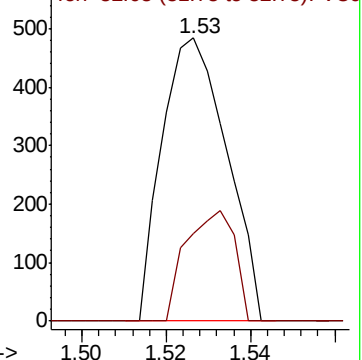
Ion Ratio Lower Upper

50 100

52 30.8 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU040649.D (-49) (-)



#8

Chloroethane

Concen: 0.045 ug/L

RT: 1.96 min Scan# 192

Delta R.T. 0.01 min

Lab File: VU040662.D

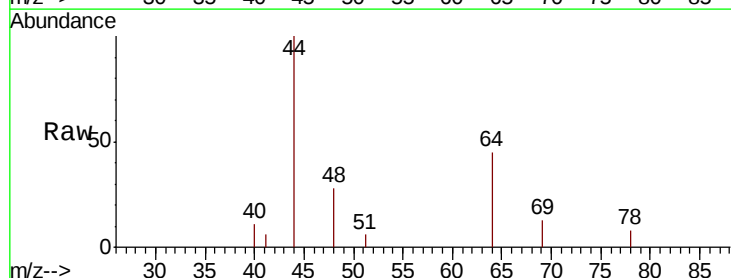
Acq: 12 Oct 2020 16:33

Tgt Ion: 64 Resp: 308

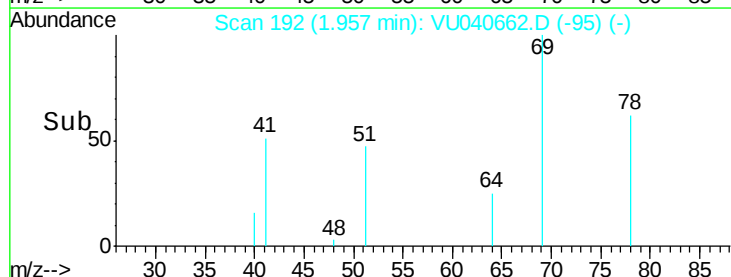
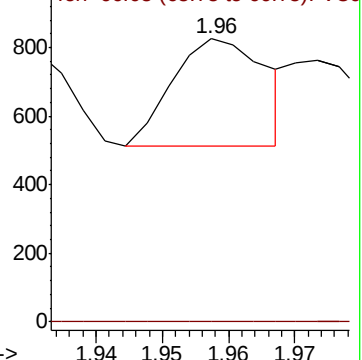
Ion Ratio Lower Upper

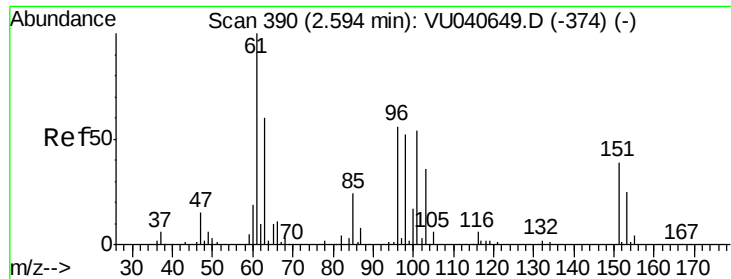
64 100

66 0.0 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU040649.D (-176) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.050 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040662.D

Acq: 12 Oct 2020 16:33

Instrument :

MSVOA_U

ClientSampleId :

YAQY4

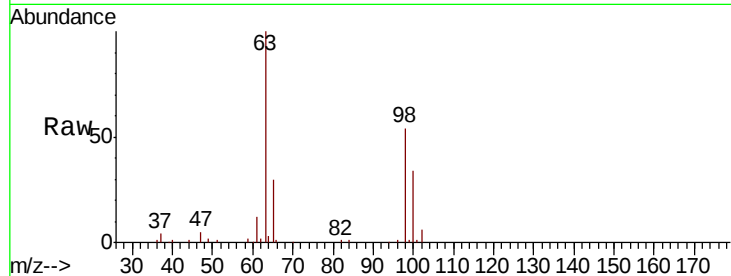
Tot Ion:101 Resp: 502

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

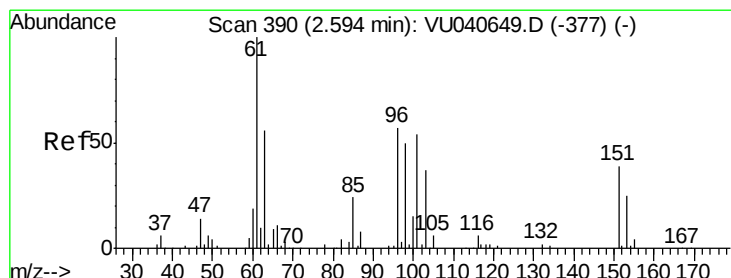
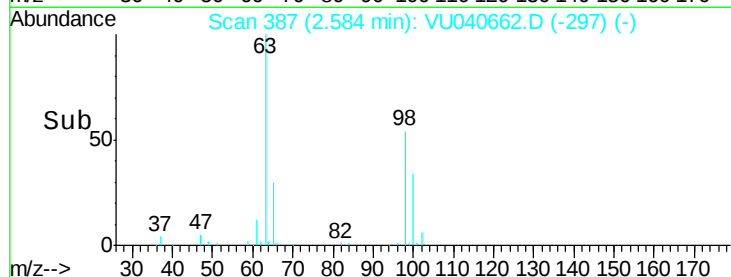
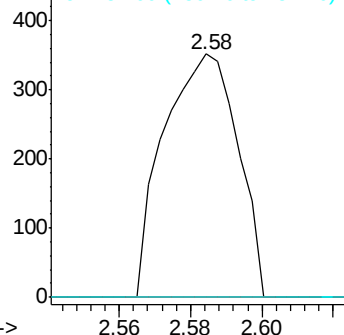
151 0.0 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.071 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040662.D

Acq: 12 Oct 2020 16:33

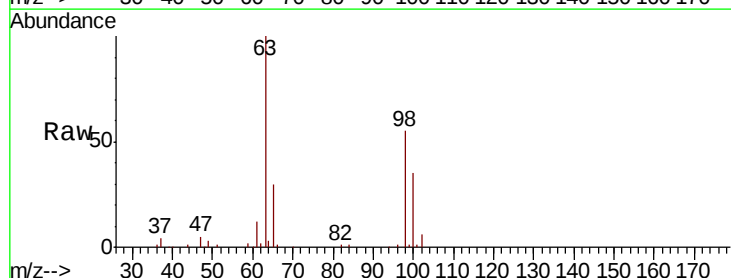
Tgt Ion: 96 Resp: 613

Ion Ratio Lower Upper

96 100

61 1046.6 128.8 239.2#

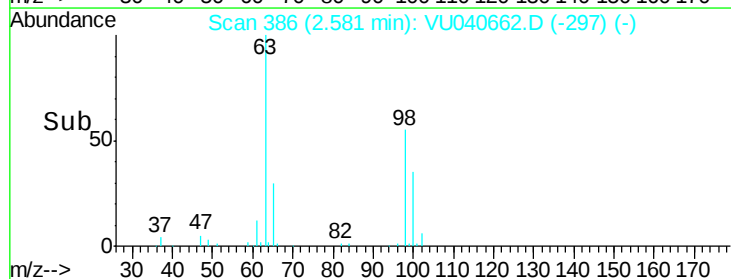
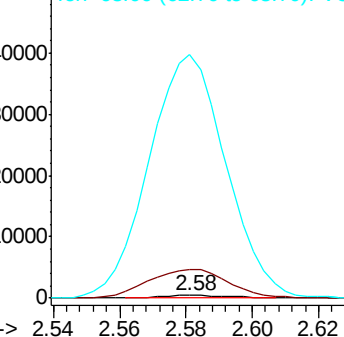
63 8812.4 84.6 157.2#

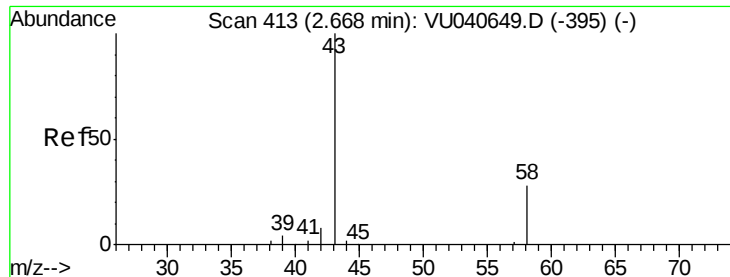


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 85.617 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU040662.D

Acq: 12 Oct 2020 16:33

Instrument :

MSVOA_U

ClientSampleId :

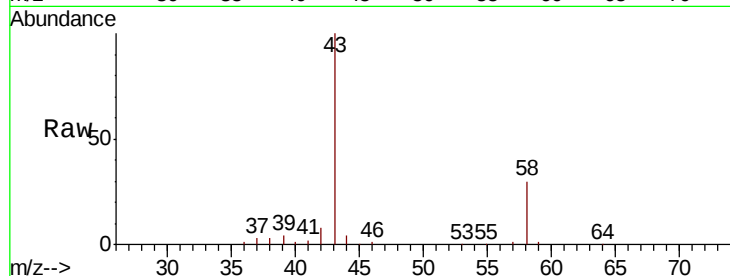
YAQY4

Tot Ion: 43 Resp: 212626

Ion Ratio Lower Upper

43 100

58 29.6 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040662.D (-320) (-)

Ion 58.05 (57.75 to 58.75): VU040662.D (-320) (-)

2.67

50000

40000

30000

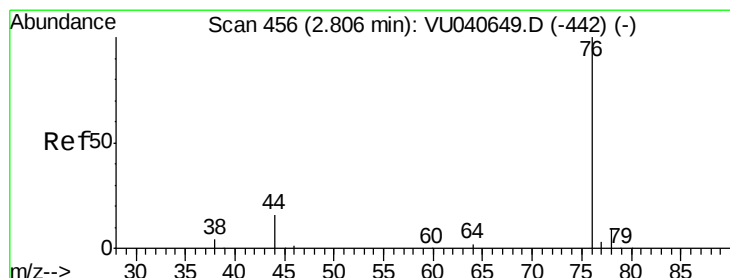
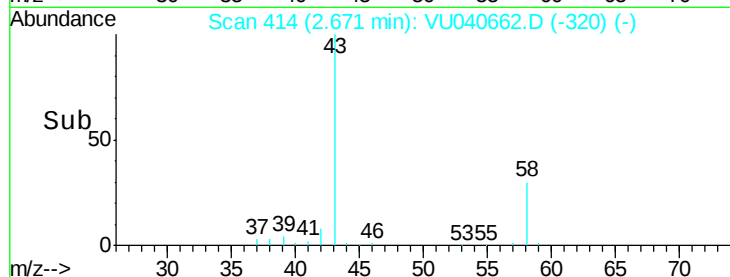
20000

10000

0

Time-->

2.50 2.60 2.70 2.80 2.90



#14

Carbon disulfide

Concen: 0.081 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040662.D

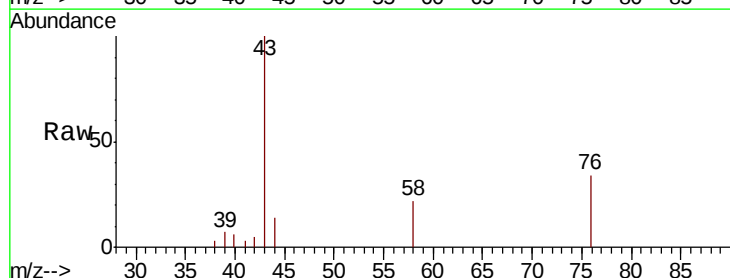
Acq: 12 Oct 2020 16:33

Tgt Ion: 76 Resp: 1948

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU040662.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040662.D (-363) (-)

2.81

1500

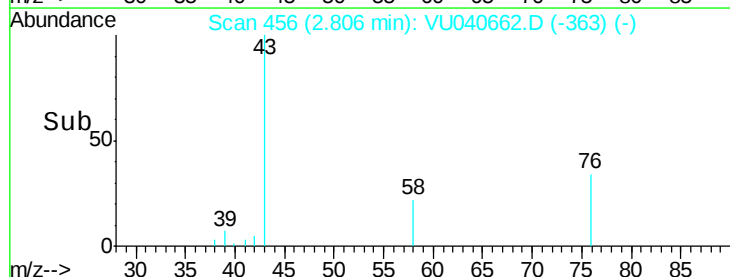
1000

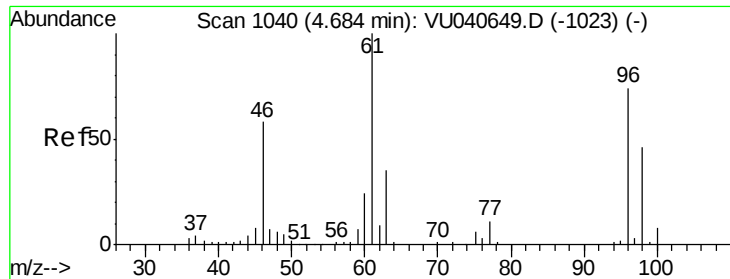
500

0

Time-->

2.75 2.80 2.85

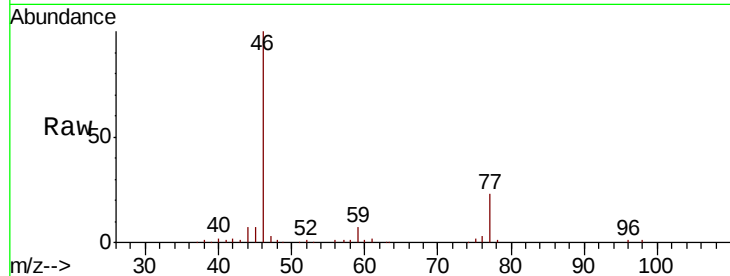




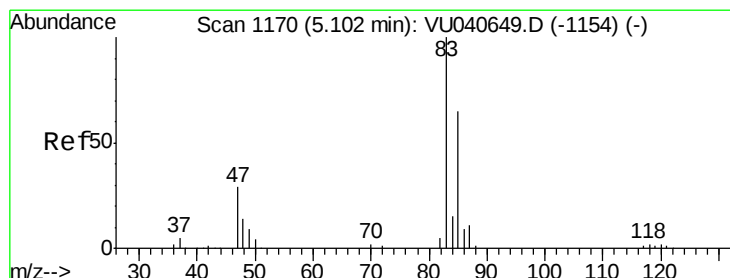
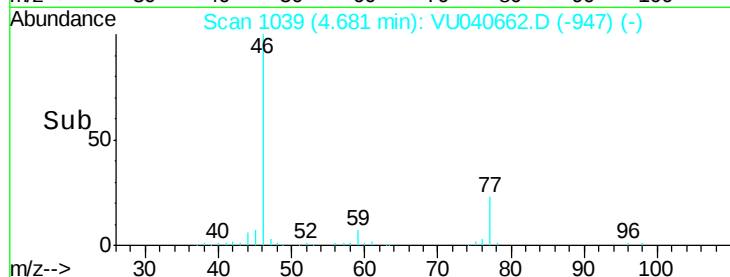
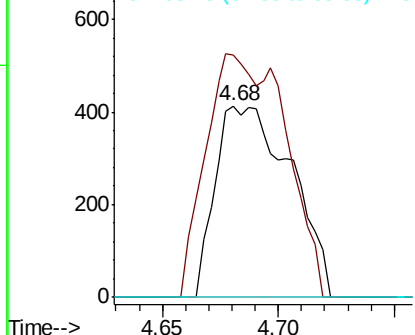
#22
 cis-1,2-Dichloroethene
 Concen: 0.096 ug/L
 RT: 4.68 min Scan# 1039
 Delta R.T. -0.00 min
 Lab File: VU040662.D
 Acq: 12 Oct 2020 16:33

Instrument :
 MSVOA_U
 ClientSampleId :
 YAQY4

Tot Ion: 96 Resp: 936
 Ion Ratio Lower Upper
 96 100
 61 126.9 99.8 185.4
 68 0.0 0.0 0.0

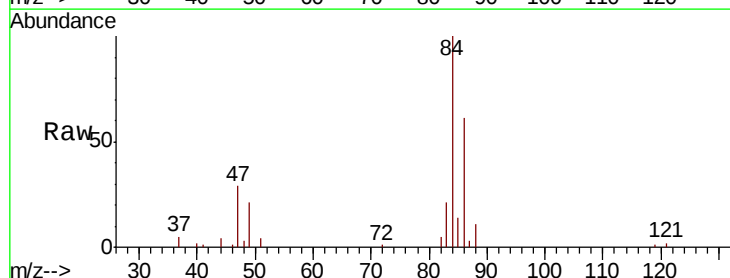


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

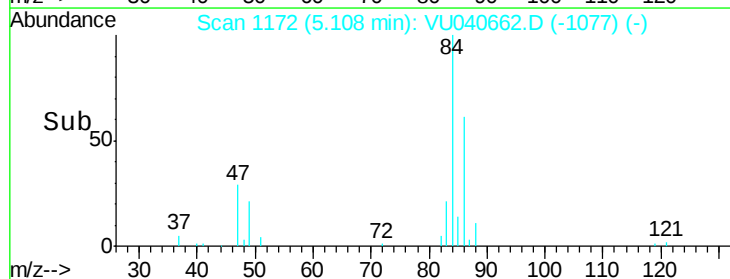
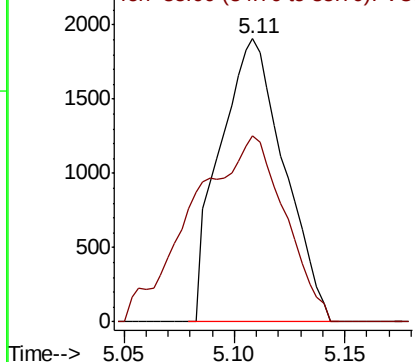


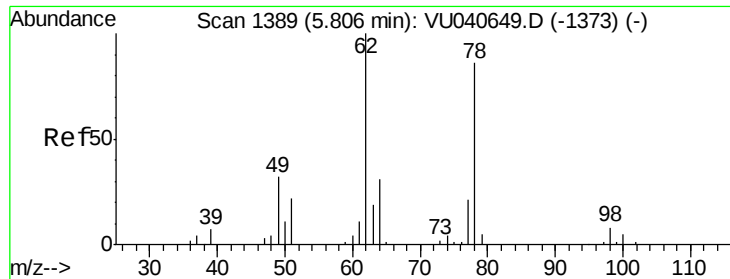
#25
 Chloroform
 Concen: 0.202 ug/L
 RT: 5.11 min Scan# 1172
 Delta R.T. 0.01 min
 Lab File: VU040662.D
 Acq: 12 Oct 2020 16:33

Tgt Ion: 83 Resp: 3849
 Ion Ratio Lower Upper
 83 100
 85 65.5 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

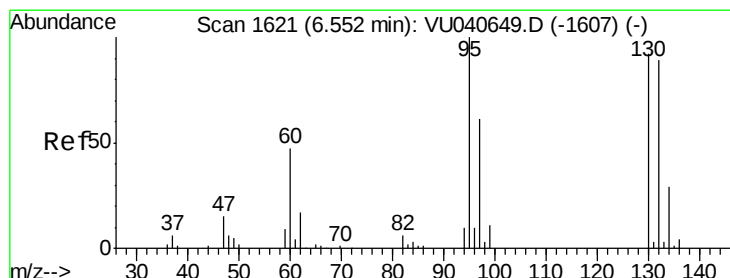
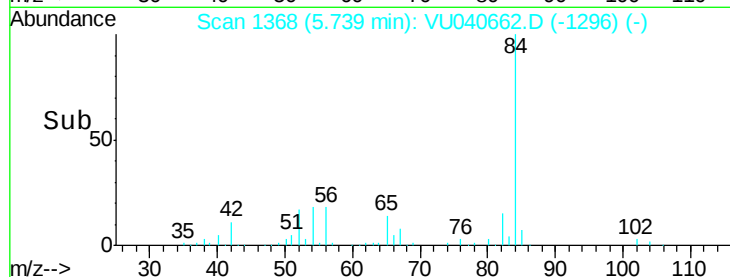
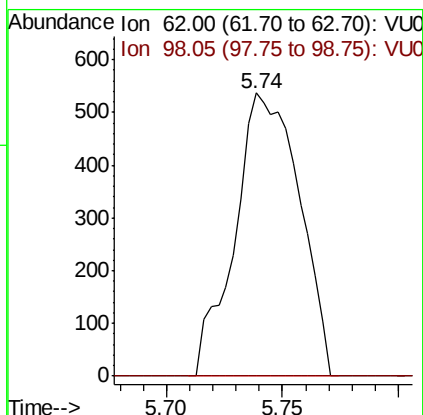
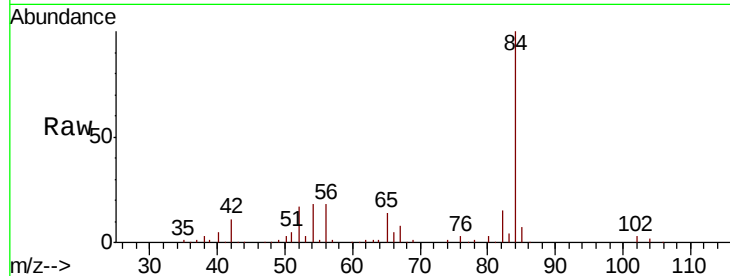




#27
 1,2-Dichloroethane
 Concen: 0.077 ug/L
 RT: 5.74 min Scan# 1368
 Delta R.T. -0.07 min
 Lab File: VU040662.D
 Acq: 12 Oct 2020 16:33

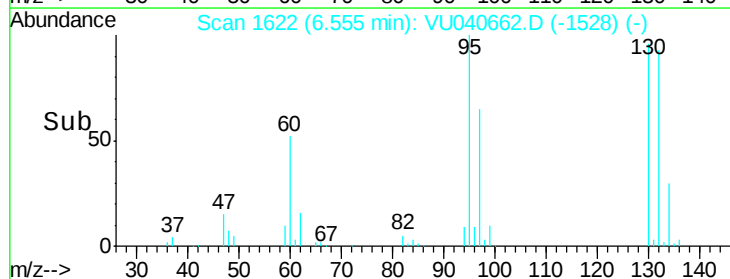
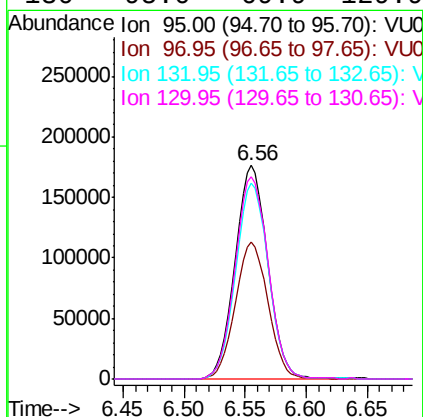
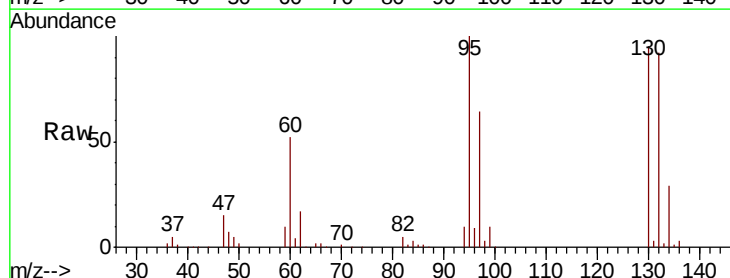
Instrument :
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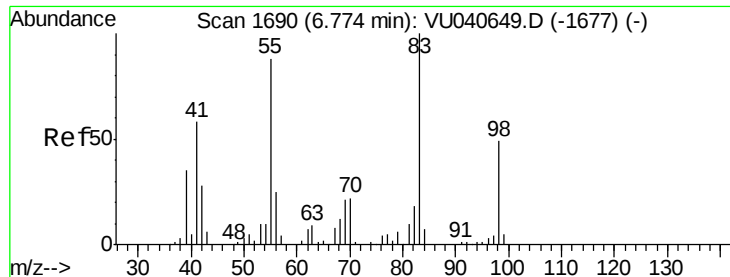
Tot Ion: 62 Resp: 1042
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#34
 Trichloroethene
 Concen: 32.416 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040662.D
 Acq: 12 Oct 2020 16:33

Tgt Ion: 95 Resp: 326342
 Ion Ratio Lower Upper
 95 100
 97 64.0 45.5 84.5
 132 91.9 67.5 125.4
 130 95.0 69.9 129.9

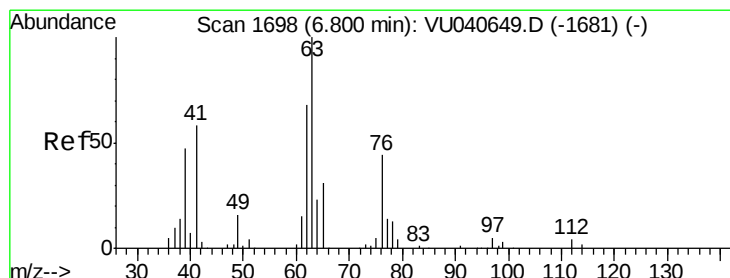
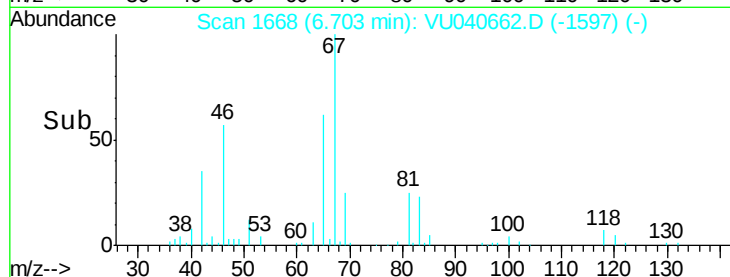
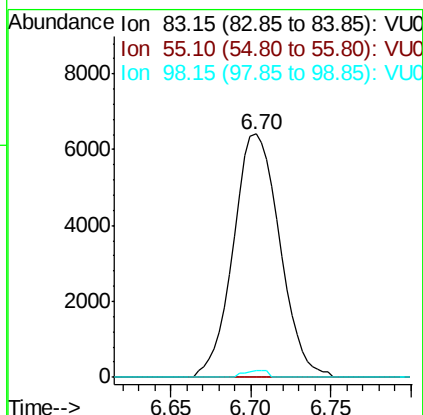
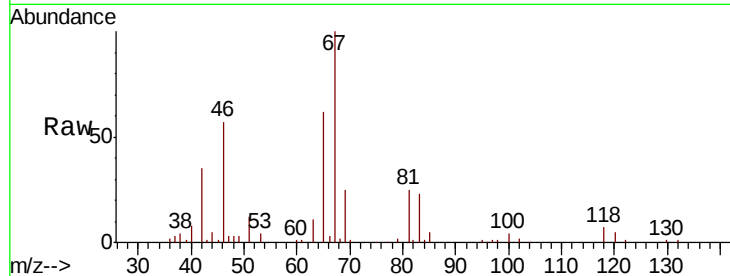




#35
Methvlcvclohexane
Concen: 0.891 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040662.D
Acq: 12 Oct 2020 16:33

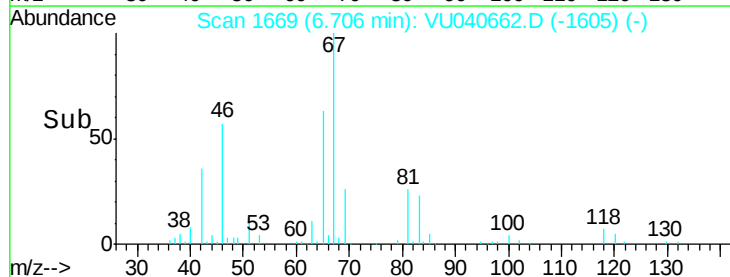
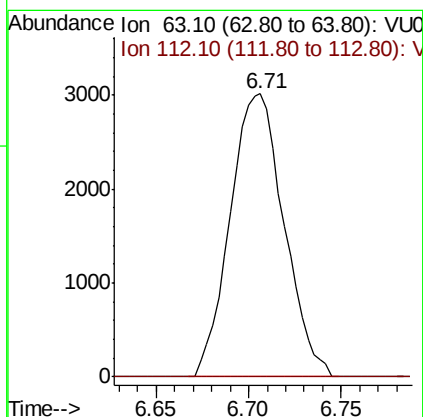
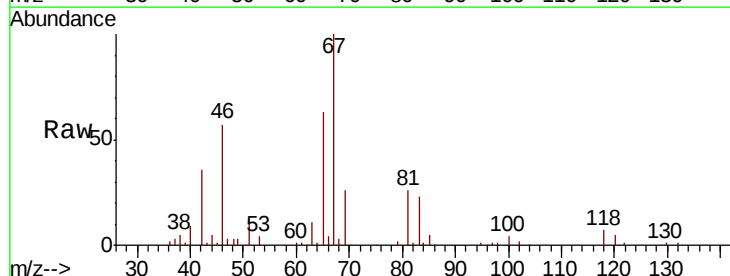
Instrument :
MSVOA_U
ClientSampleId :
YAQY4

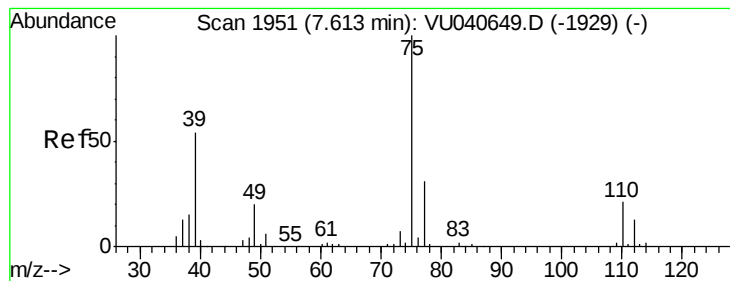
Tot Ion: 83 Resp: 12722
Ion Ratio Lower Upper
83 100
55 0.0 70.7 106.1#
98 0.0 38.4 57.6#



#37
1,2-Dichloropropane
Concen: 0.561 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.09 min
Lab File: VU040662.D
Acq: 12 Oct 2020 16:33

Tgt Ion: 63 Resp: 6071
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



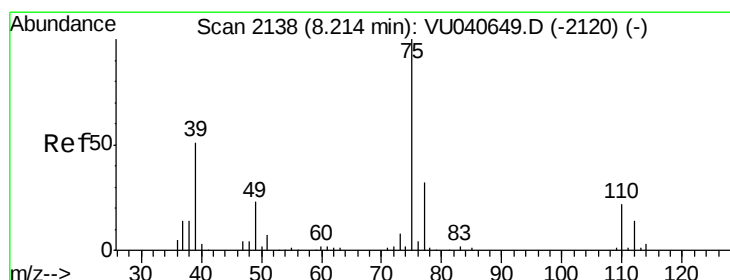
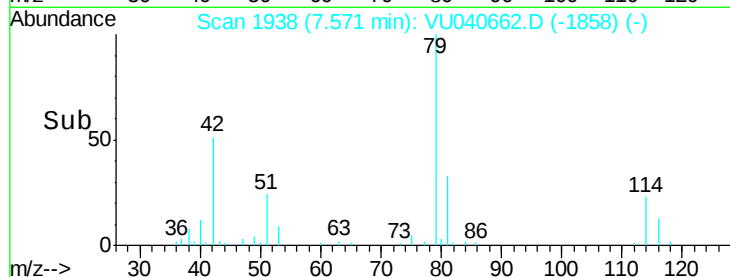
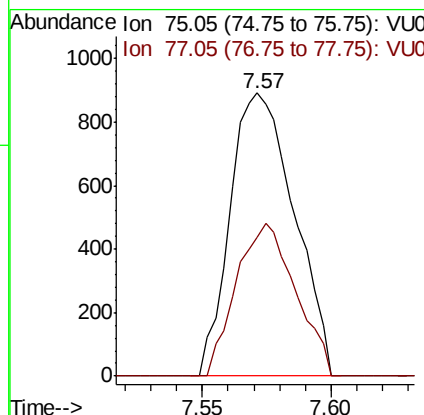
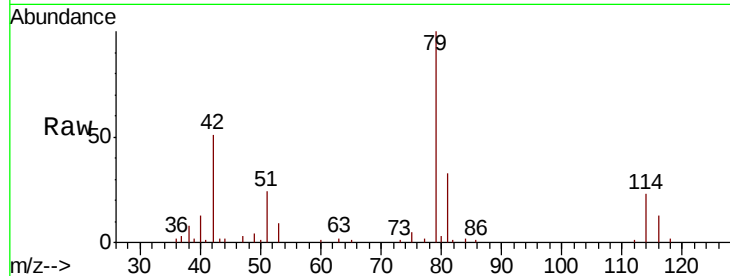


#39

cis-1,3-Dichloropropene
Concen: 0.104 ug/L
RT: 7.57 min Scan# 1938
Delta R.T. -0.04 min
Lab File: VU040662.D
Acq: 12 Oct 2020 16:33

Instrument :
MSVOA_U
ClientSampleId :
YQY4

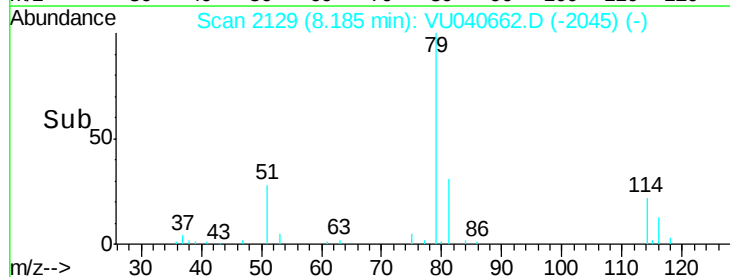
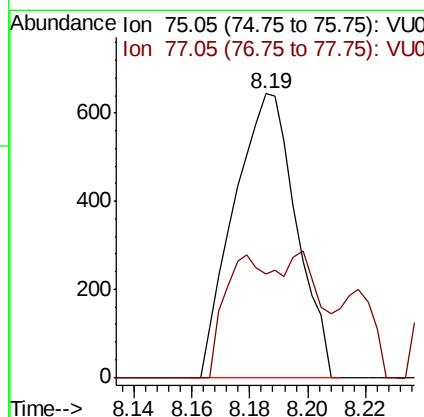
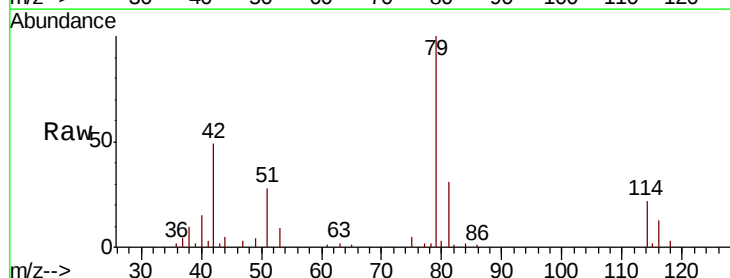
Tot Ion: 75 Resp: 1545
Ion Ratio Lower Upper
75 100
77 48.8 20.5 38.1#

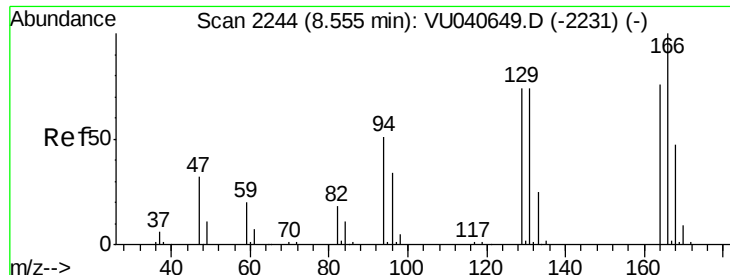


#44

trans-1,3-Dichloropropene
Concen: 0.071 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU040662.D
Acq: 12 Oct 2020 16:33

Tgt Ion: 75 Resp: 962
Ion Ratio Lower Upper
75 100
77 36.5 20.4 38.0





#47

Tetrachloroethene

Concen: 4.767 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040662.D

Acq: 12 Oct 2020 16:33

Instrument :

MSVOA_U

ClientSampleId :

YAQY4

Tot Ion:164 Resp: 34241

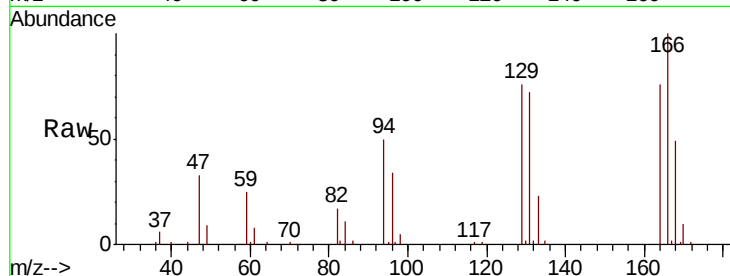
Ion Ratio Lower Upper

164 100

129 99.8 68.8 127.8

131 94.9 66.7 123.9

166 131.3 83.9 155.7

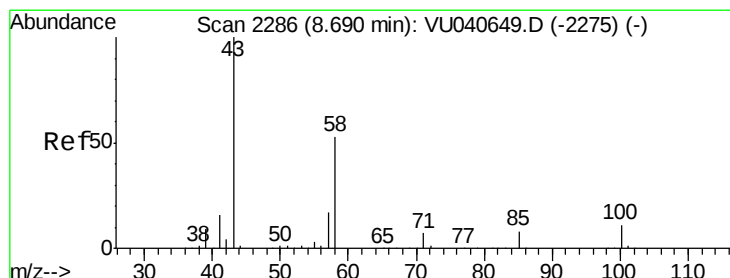
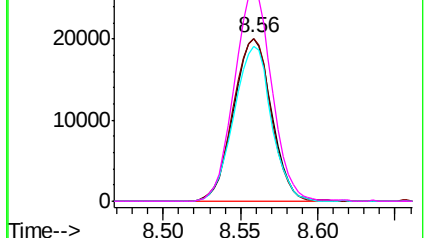
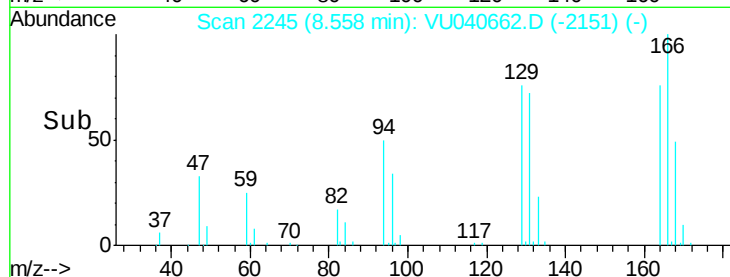


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.962 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040662.D

Acq: 12 Oct 2020 16:33

Tgt Ion: 43 Resp: 19024

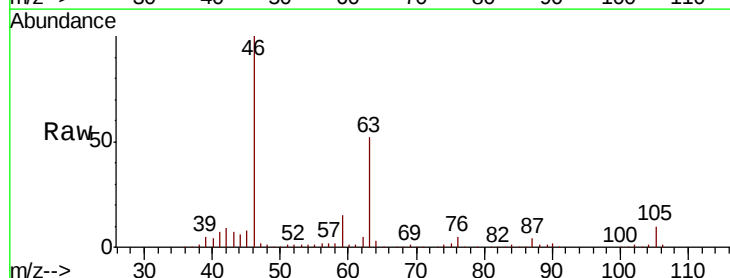
Ion Ratio Lower Upper

43 100

58 26.6 41.0 61.6#

57 24.4 14.4 21.6#

100 0.6 8.6 13.0#

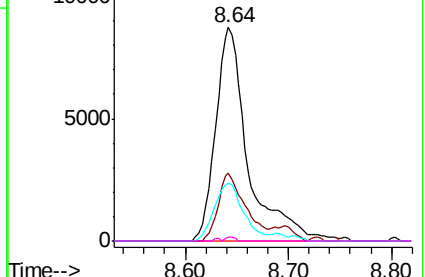
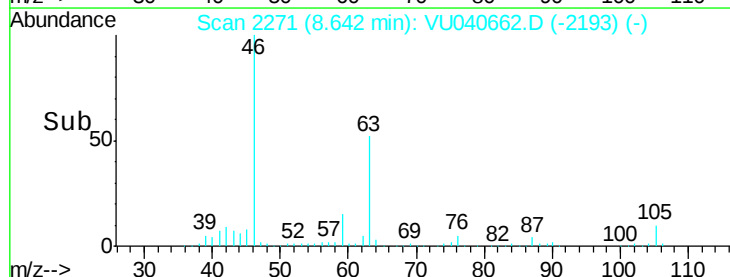


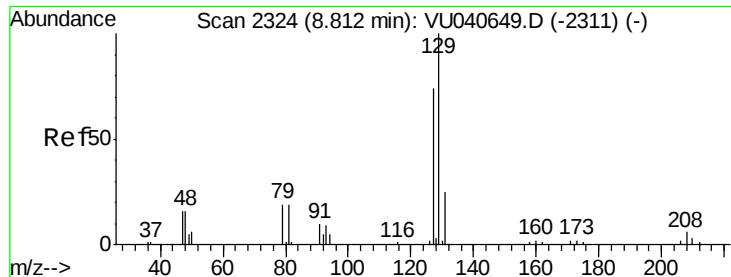
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 3.676 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040662.D

Acq: 12 Oct 2020 16:33

Instrument :

MSVOA_U

ClientSampled :

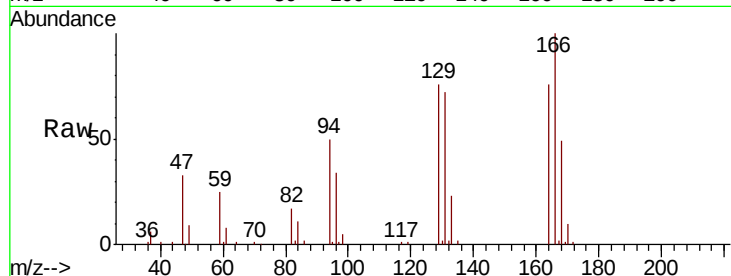
YAY4

Tot Ion:129 Resp: 34280

Ion Ratio Lower Upper

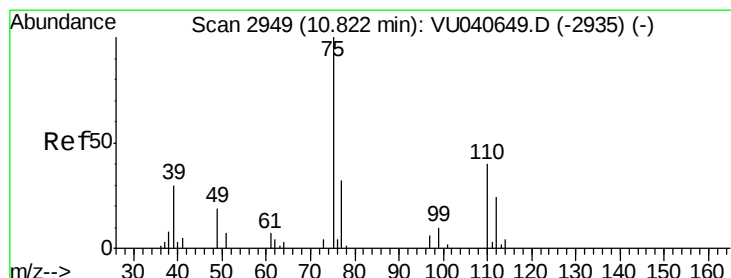
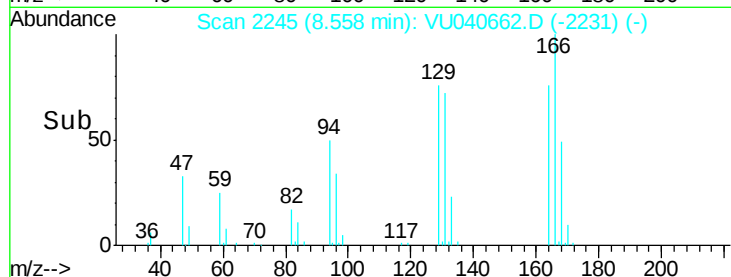
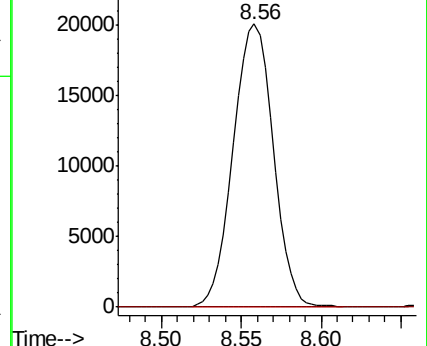
129 100

127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.915 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040662.D

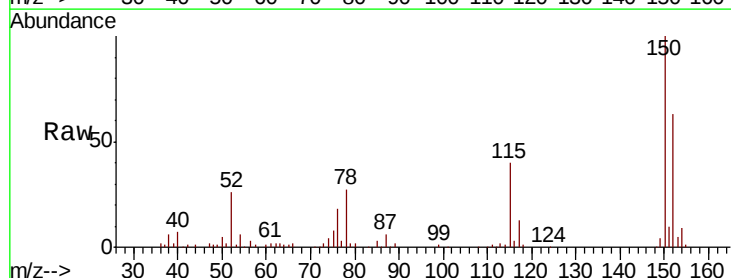
Acq: 12 Oct 2020 16:33

Tgt Ion: 75 Resp: 7274

Ion Ratio Lower Upper

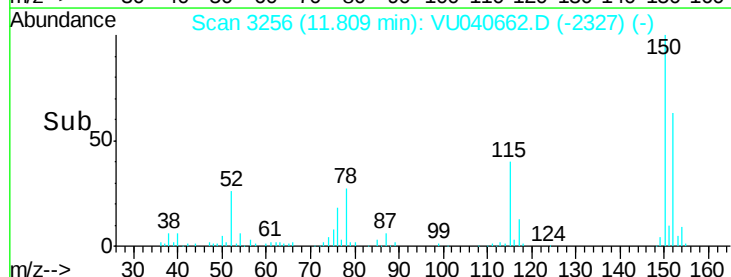
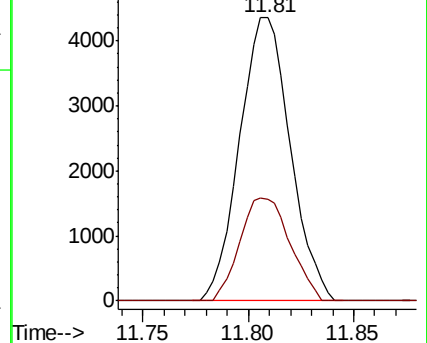
75 100

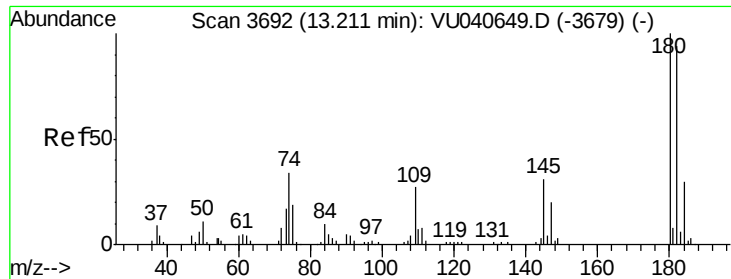
77 35.9 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

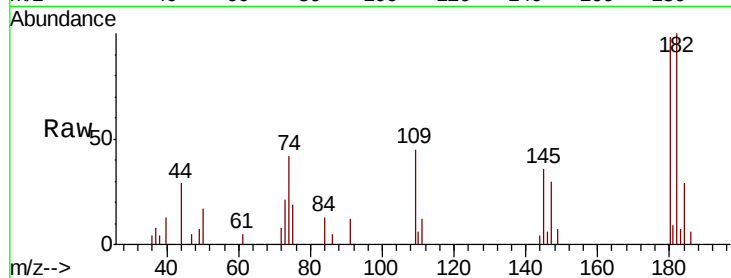




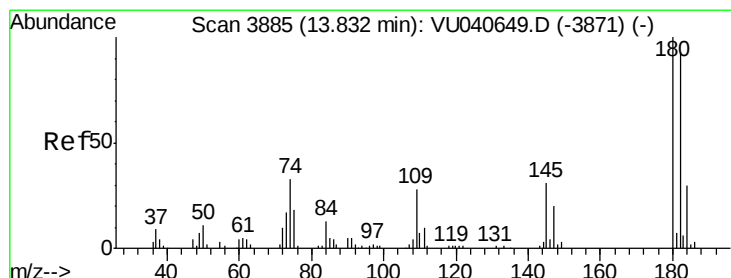
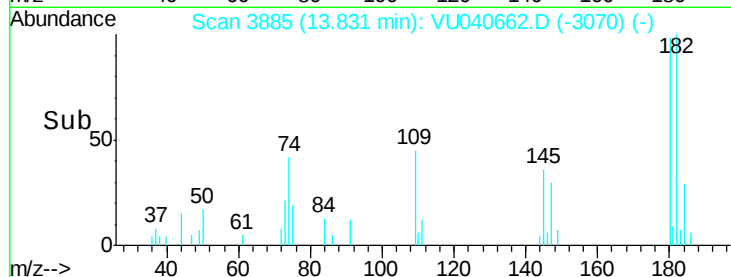
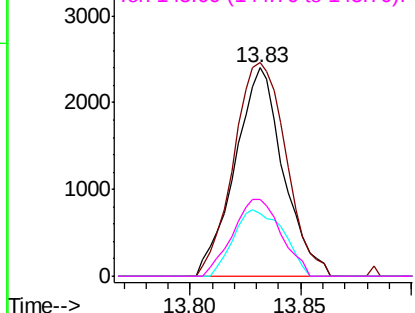
#67
 1,3,5-Trichlorobenzene
 Concen: 0.306 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.62 min
 Lab File: VU040662.D
 Acq: 12 Oct 2020 16:33

Instrument :
 MSVOA_U
 ClientSampleId :
 YAQY4

Tot Ion:180	Resp:	3655
Ion	Ratio	Lower Upper
180	100	
182	110.8	77.0 115.4
184	32.9	24.5 36.7
145	36.9	25.9 38.9

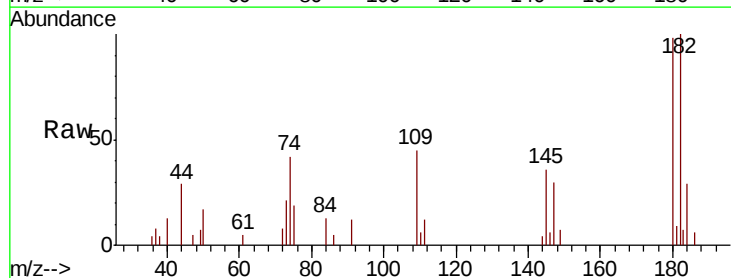


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

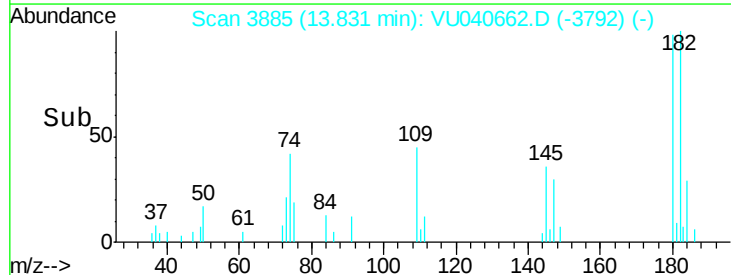
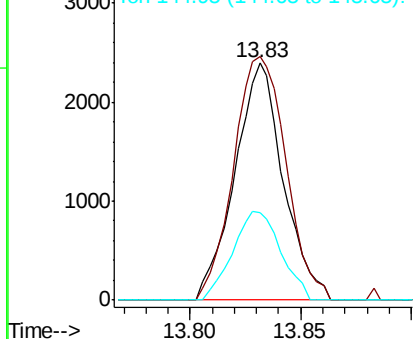


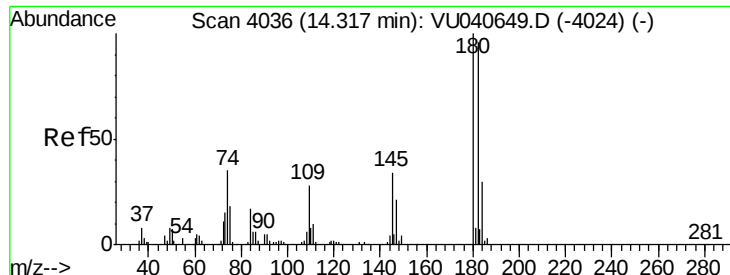
#68
 1,2,4-trichlorobenzene
 Concen: 0.396 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040662.D
 Acq: 12 Oct 2020 16:33

Tgt Ion:180	Resp:	3655
Ion	Ratio	Lower Upper
180	100	
182	110.8	78.8 118.2
145	36.9	26.1 39.1



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

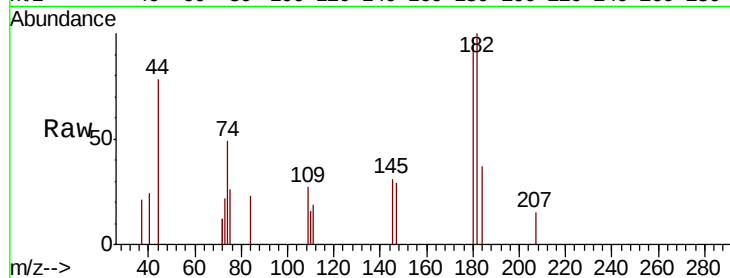




#70
 1,2,3-Trichlorobenzene
 Concen: 0.182 ug/L
 RT: 14.32 min Scan# 4036
 Delta R.T. -0.00 min
 Lab File: VU040662.D
 Acq: 12 Oct 2020 16:33

Instrument :
 MSVOA_U
 ClientSampleId :
 YAQY4

Tot Ion:180 Resp: 1561
 Ion Ratio Lower Upper
 180 100
 182 97.4 75.8 113.8
 145 30.3 27.4 41.2



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

