

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100920\
 Data File : VU040622.D
 Acq On : 10 Oct 2020 06:43
 Operator : SY/MD
 Sample : L4352-22
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ15

Quant Time: Oct 10 07:41:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 10 05:58:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	136008	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	136301	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	57952	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	49393	4.38	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.60%
7) Chloroethane-d5	1.92	69	40968	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.20%
11) 1,1-Dichloroethene-d2	2.58	63	74717	3.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.80%
20) 2-Butanone-d5	4.66	46	200723	55.66	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.32%
24) Chloroform-d	5.08	84	97573	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.72	65	60365	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
32) Benzene-d6	5.74	84	181250	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
36) 1,2-Dichloropropane-d6	6.70	67	61690	5.05	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.00%
41) Toluene-d8	7.91	98	144088	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.19	79	23012	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.64	63	134175	50.36	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.72%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	54710	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	57025	5.31	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.20%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	4670	0.405 ug/L	96
5) Vinyl chloride	1.61	62	140279	11.559 ug/L	90
8) Chloroethane	1.97	64	340	0.044 ug/L #	41
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	519	0.046 ug/L #	20
12) 1,1-Dichloroethene	2.59	96	1952	0.201 ug/L #	1
13) Acetone	2.67	43	3126	1.118 ug/L	78
18) trans-1,2-Dichloroethene	3.37	96	13056	1.285 ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	602600	55.008 ug/L	97
25) Chloroform	5.11	83	1732	0.081 ug/L	94
27) 1,2-Dichloroethane	5.82	62	656	0.043 ug/L #	77
34) Trichloroethene	6.55	95	5441	0.479 ug/L	97
35) Methylcyclohexane	6.70	83	14213	0.883 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	7245	0.594 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1574	0.094 ug/L #	57
42) Toluene	7.98	91	2839	0.064 ug/L	94
44) trans-1,3-Dichloropropene	8.19	75	1097	0.071 ug/L #	36
47) Tetrachloroethene	8.56	164	985	0.122 ug/L	86

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 10 05:58:50 2020
Response via : Initial Calibration

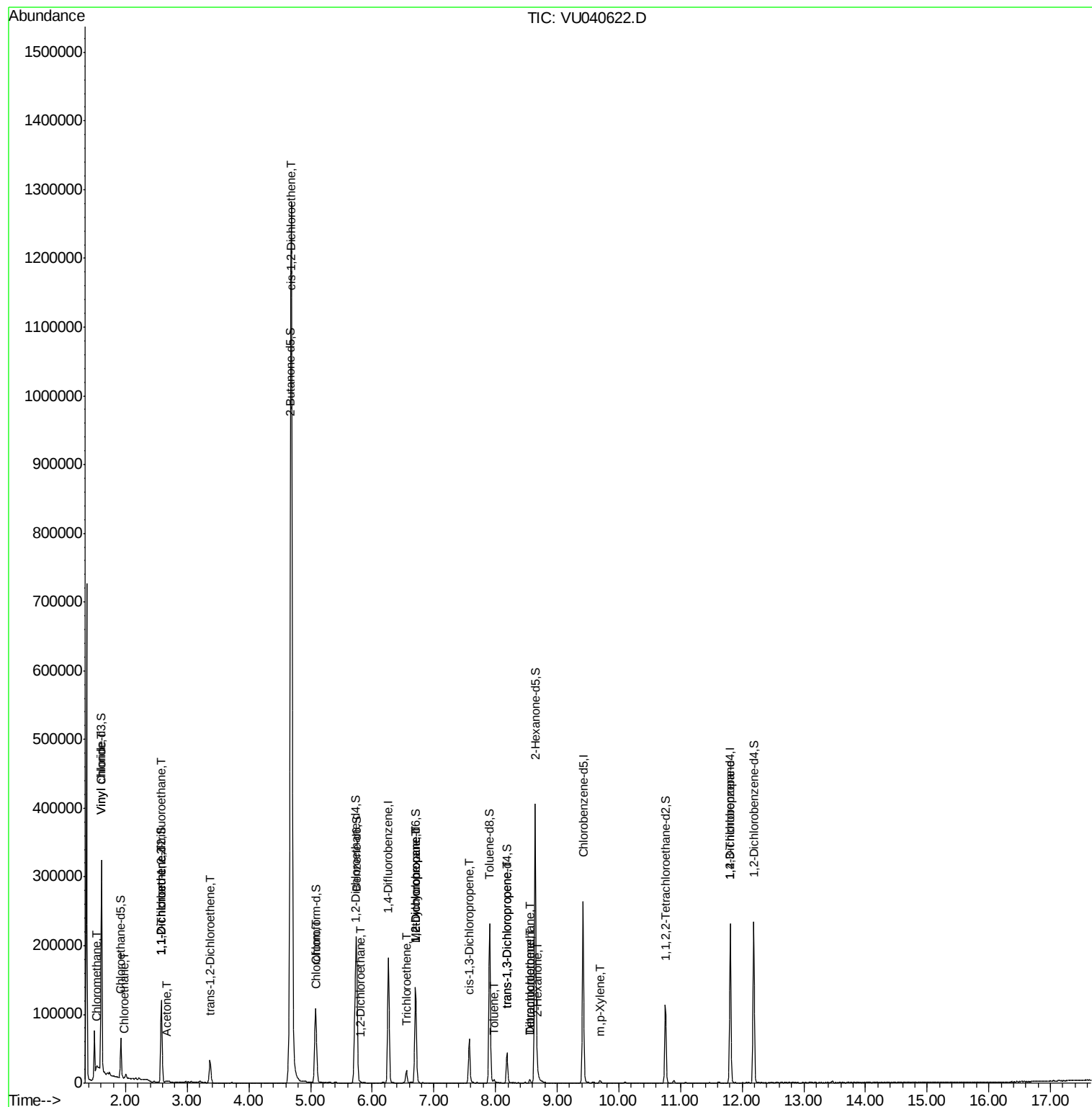
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.69	43	3349	0.462	ug/L #	75
49) Dibromochloromethane	8.55	129	1029	0.098	ug/L #	9
53) m,p-Xylene	9.69	106	996	0.057	ug/L	94
59) 1,2,3-Trichloropropane	11.81	75	7714	0.861	ug/L	97

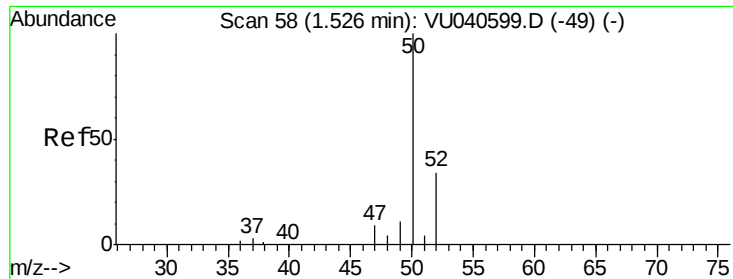
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.405 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampleId :

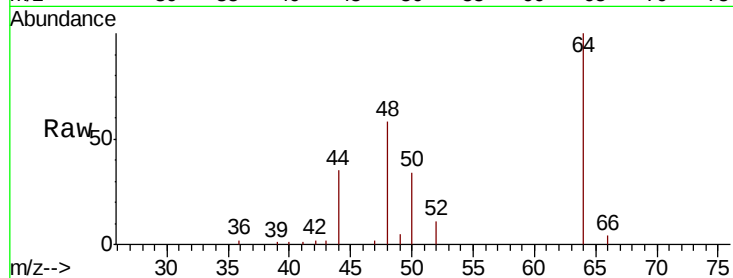
ETZ15

Tot Ion: 50 Resp: 4670

Ion Ratio Lower Upper

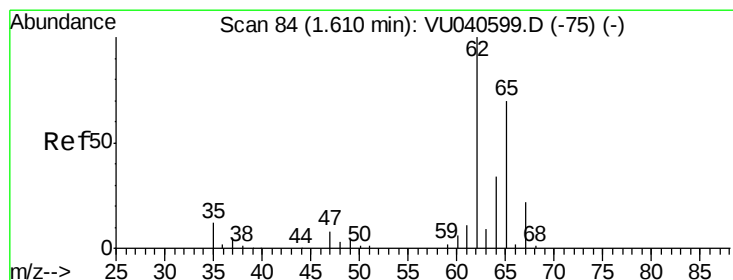
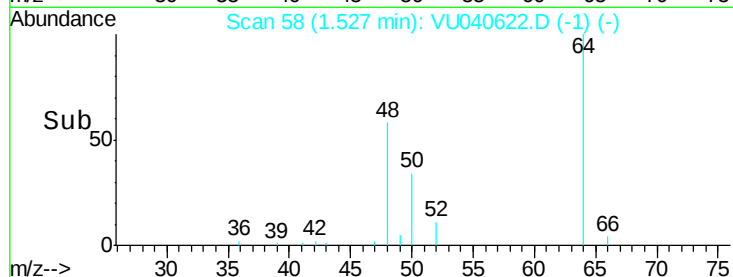
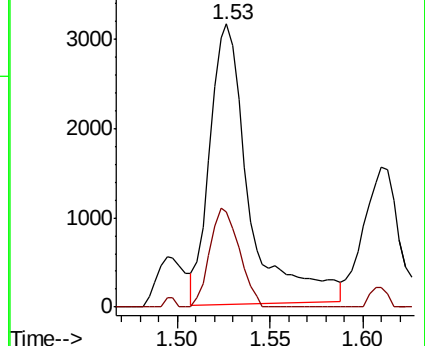
50 100

52 33.7 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 11.559 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040622.D

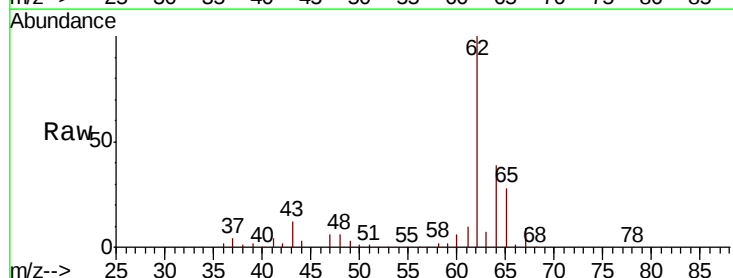
Acq: 10 Oct 2020 06:43

Tgt Ion: 62 Resp: 140279

Ion Ratio Lower Upper

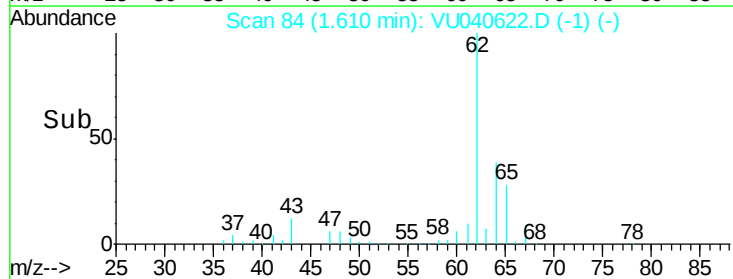
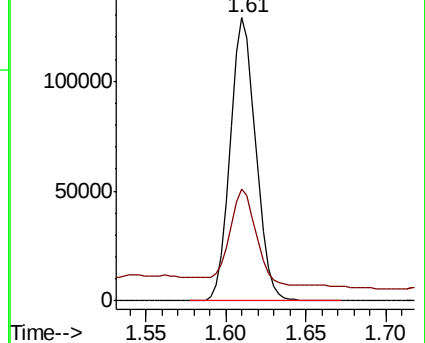
62 100

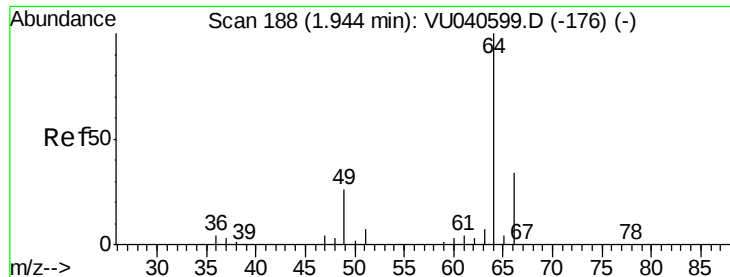
64 39.4 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.044 ug/L

RT: 1.97 min Scan# 197

Delta R.T. 0.03 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampleId :

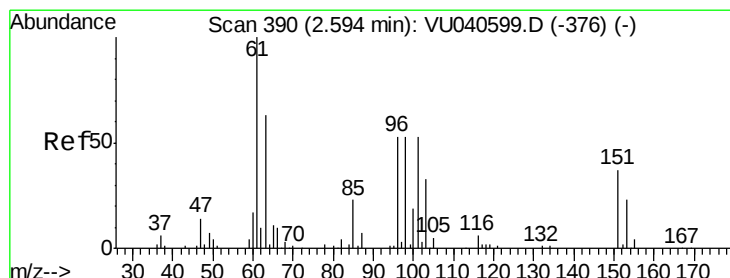
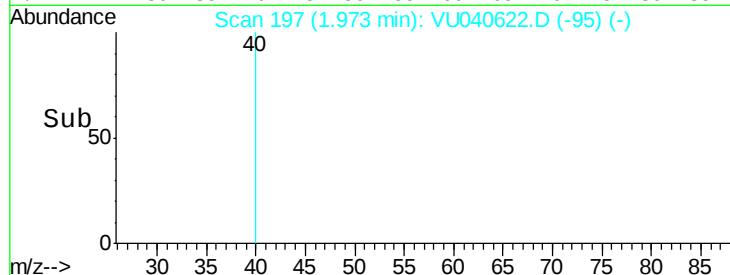
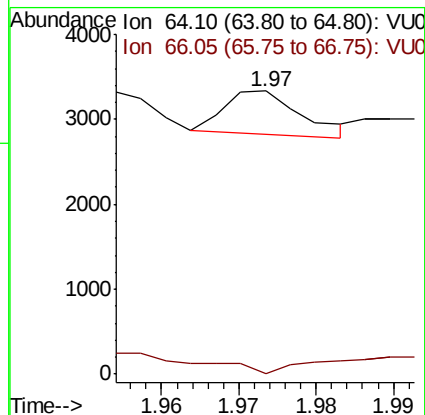
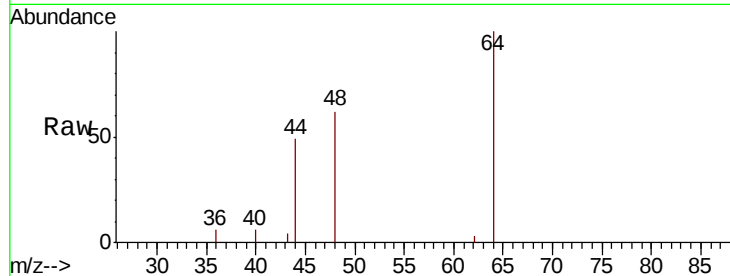
ETZ15

Tot Ion: 64 Resp: 340

Ion Ratio Lower Upper

64 100

66 0.0 23.3 43.3#



#10

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

Concen: 0.046 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

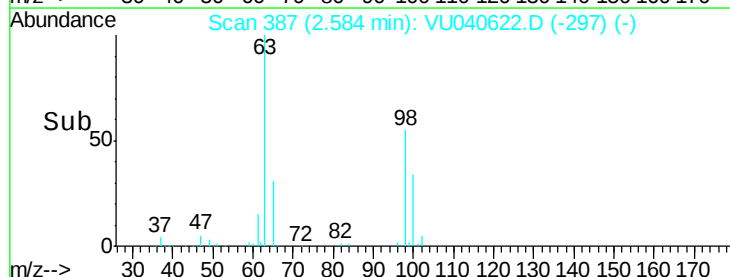
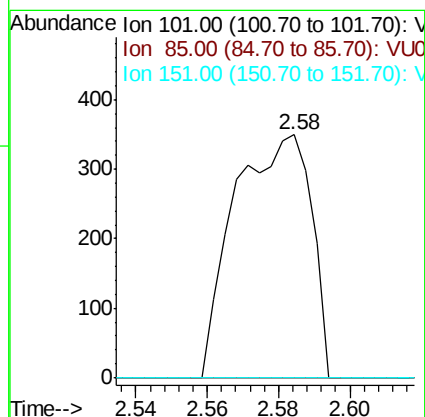
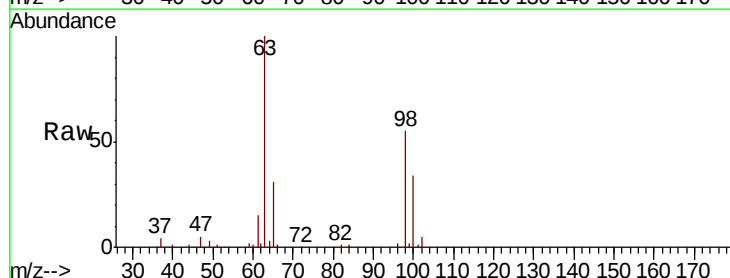
Tgt Ion: 101 Resp: 519

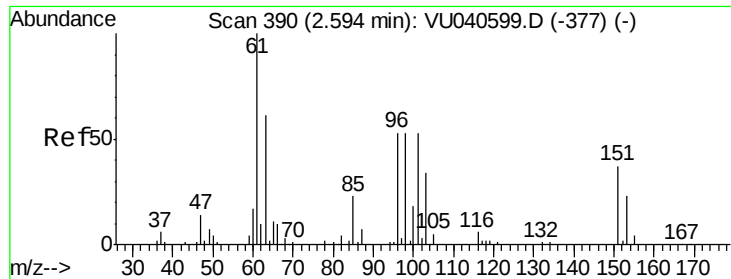
Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

151 0.0 58.0 87.0#





#12

1,1-Dichloroethene

Concen: 0.201 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampleId :

ETZ15

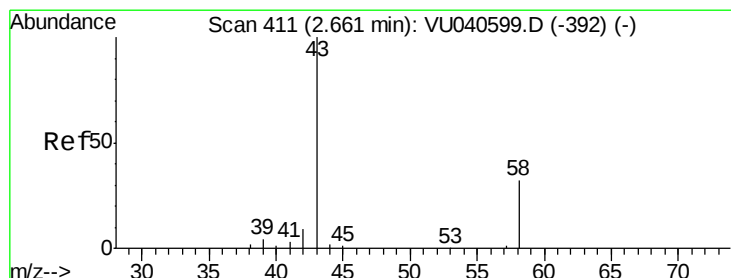
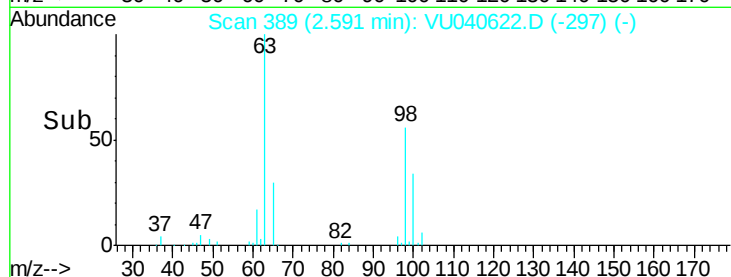
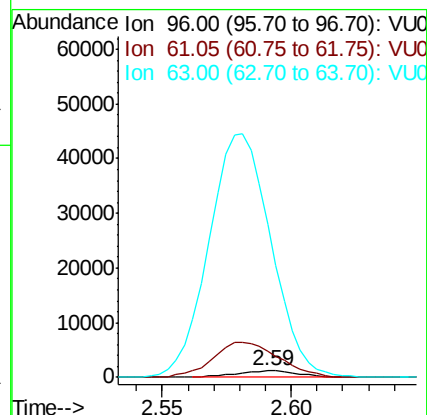
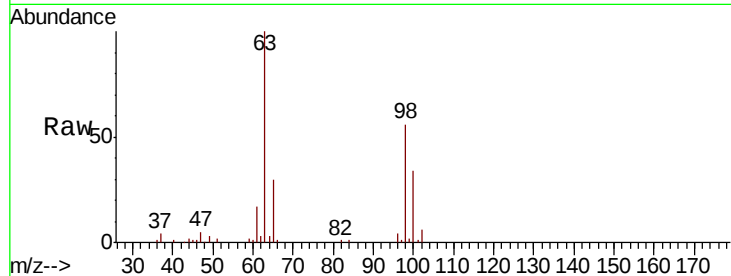
Tot Ion: 96 Resp: 1952

Ion Ratio Lower Upper

96 100

61 408.4 128.8 239.2#

63 2366.1 84.6 157.2#



#13

Acetone

Concen: 1.118 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.01 min

Lab File: VU040622.D

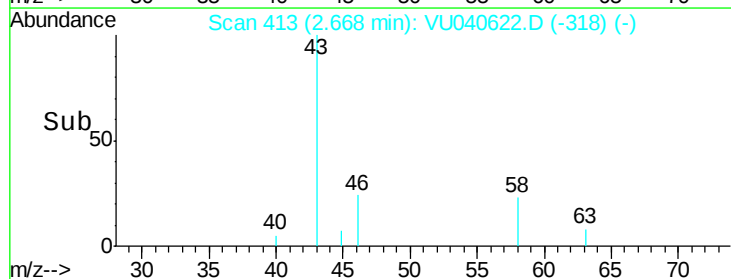
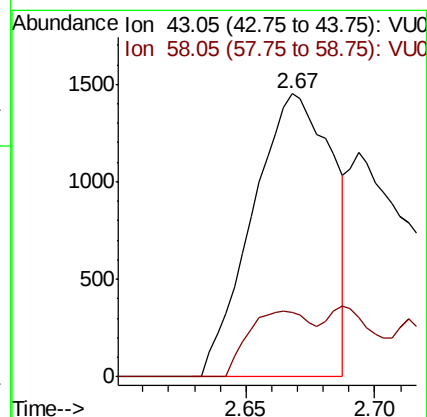
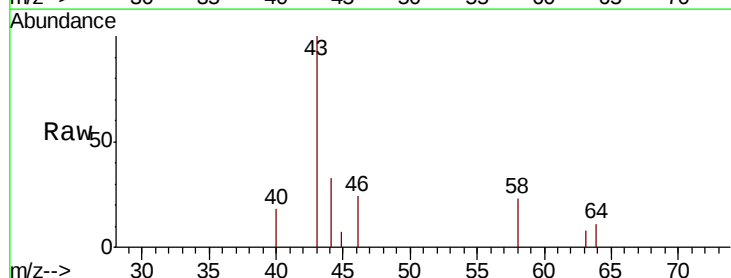
Acq: 10 Oct 2020 06:43

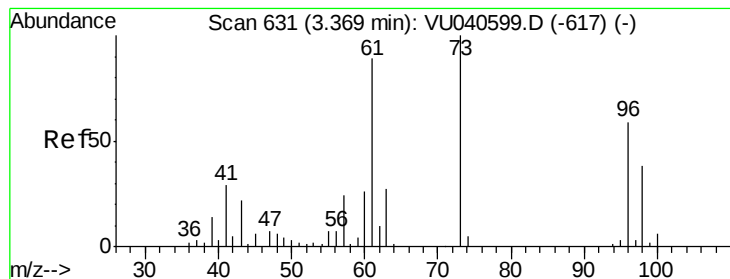
Tgt Ion: 43 Resp: 3126

Ion Ratio Lower Upper

43 100

58 18.6 0.0 60.6





#18

trans-1,2-Dichloroethene

Concen: 1.285 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampled :

ETZ15

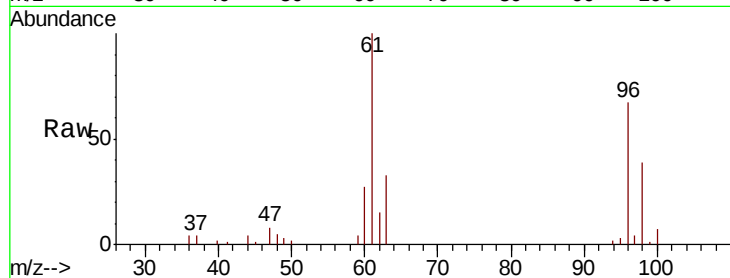
Tot Ion: 96 Resp: 13056

Ion Ratio Lower Upper

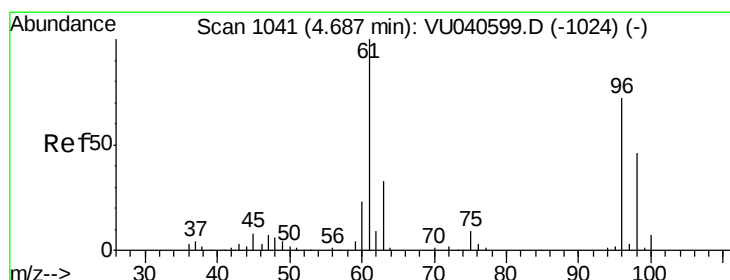
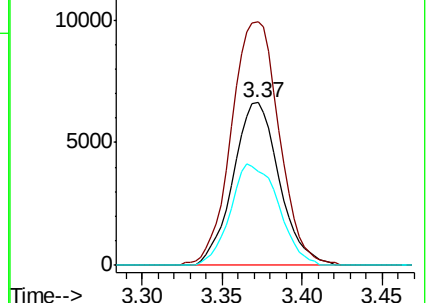
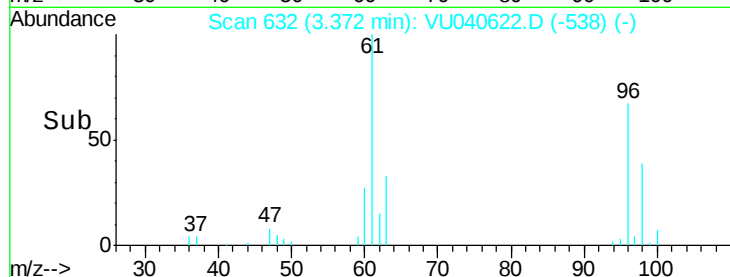
96 100

61 149.9 105.9 196.7

98 57.8 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU040622.D (-538) (-)



#22

cis-1,2-Dichloroethene

Concen: 55.008 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

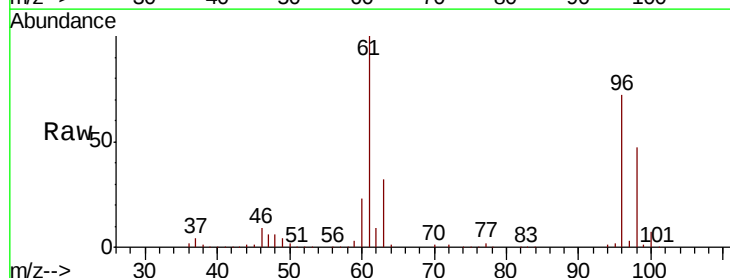
Tgt Ion: 96 Resp: 602600

Ion Ratio Lower Upper

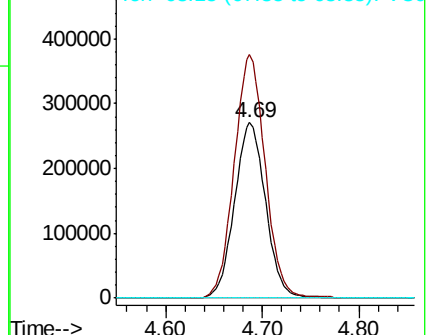
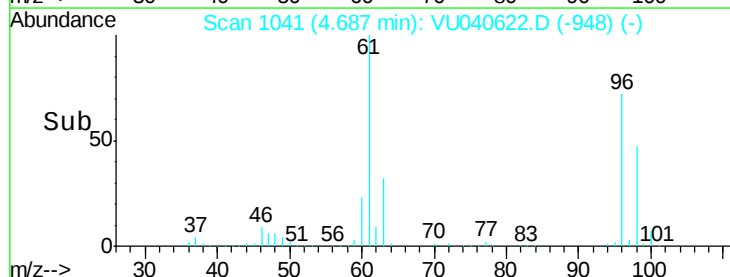
96 100

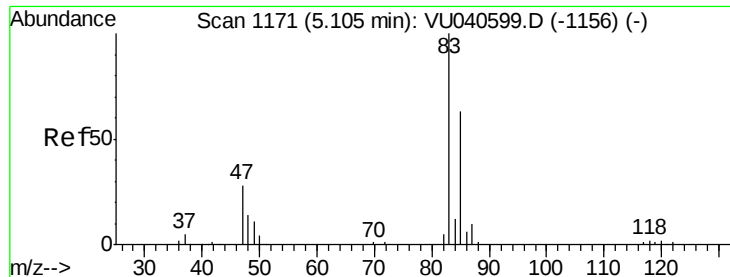
61 138.9 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040622.D (-948) (-)

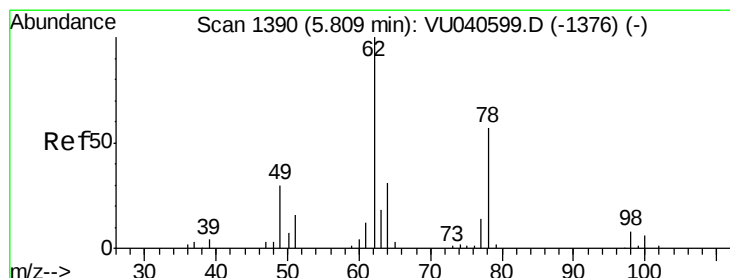
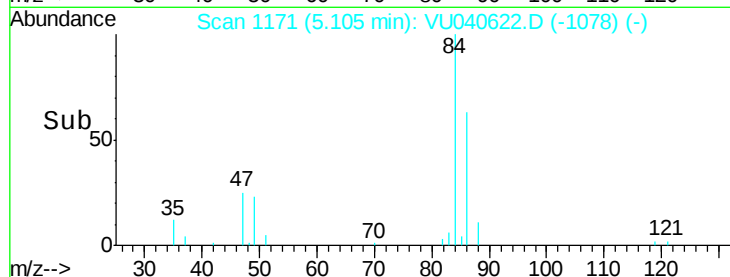
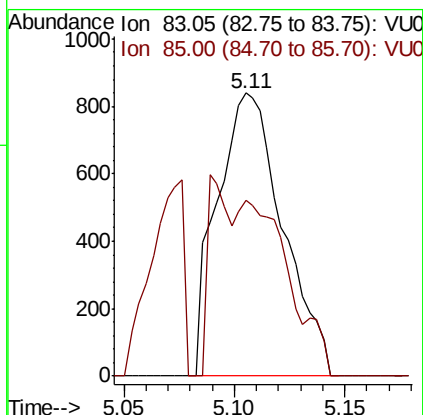
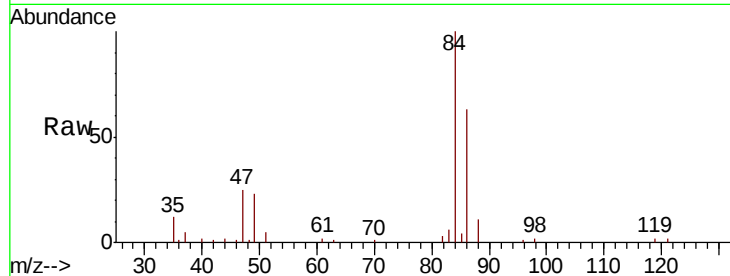




#25
Chloroform
Concen: 0.081 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040622.D
Acq: 10 Oct 2020 06:43

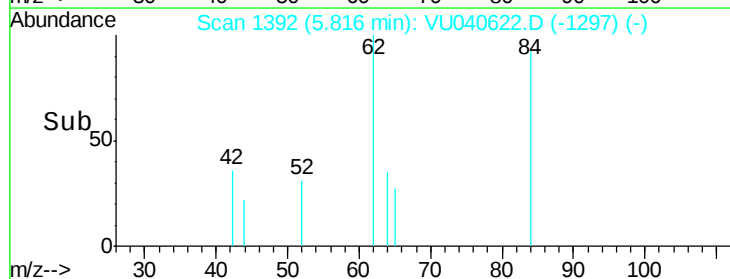
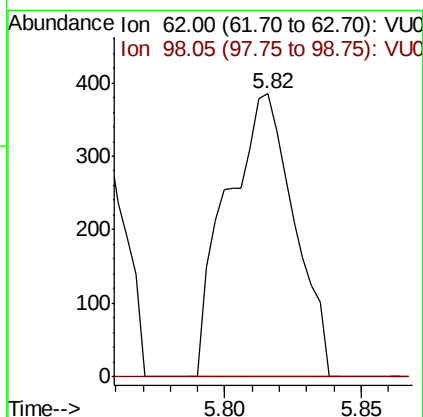
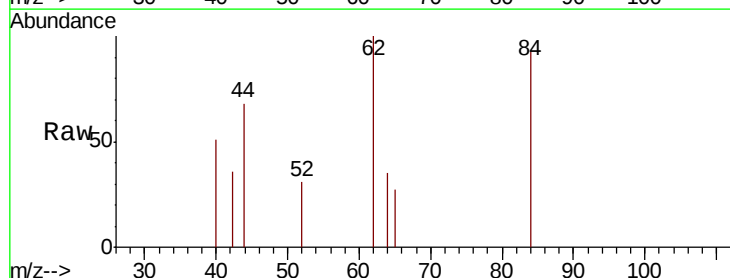
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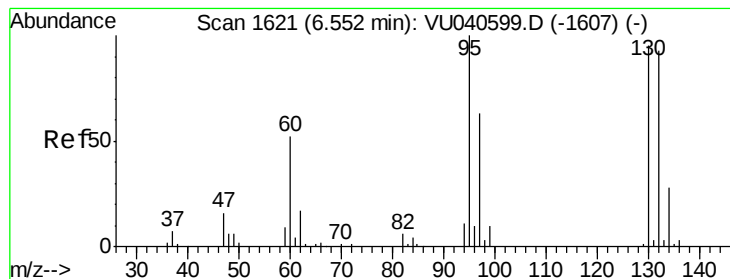
Tot Ion: 83 Resp: 1732
Ion Ratio Lower Upper
83 100
85 62.0 46.5 86.5



#27
1,2-Dichloroethane
Concen: 0.043 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.01 min
Lab File: VU040622.D
Acq: 10 Oct 2020 06:43

Tgt Ion: 62 Resp: 656
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#





#34

Trichloroethene

Concen: 0.479 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampleID :

ETZ15

Tot Ion: 95 Resp: 5441

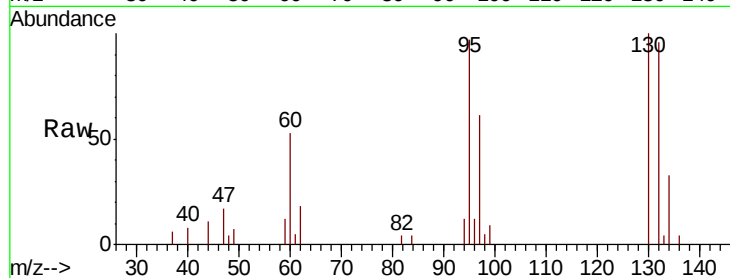
Ion Ratio Lower Upper

95 100

97 63.3 45.5 84.5

132 98.8 67.5 125.4

130 103.4 69.9 129.9

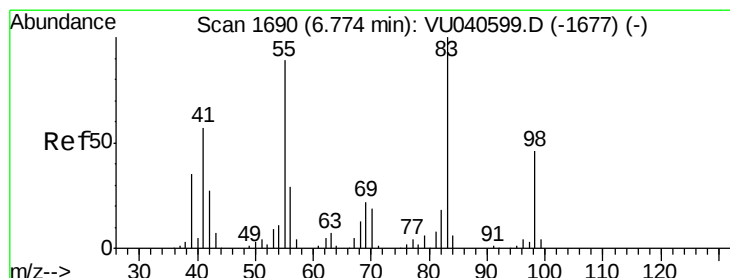
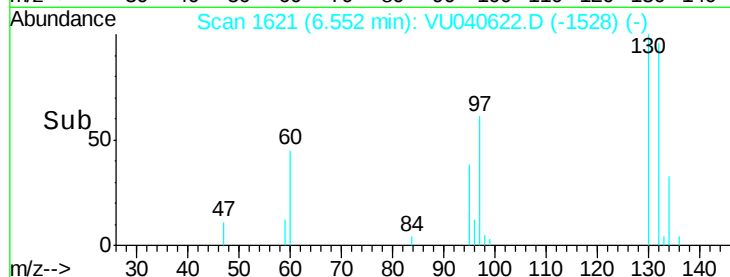
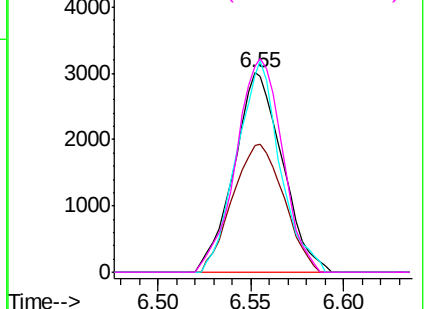


Abundance Ion 95.00 (94.70 to 95.70): VU040622.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU040622.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU040622.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU040622.D (-1528) (-)



#35

Methylcyclohexane

Concen: 0.883 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

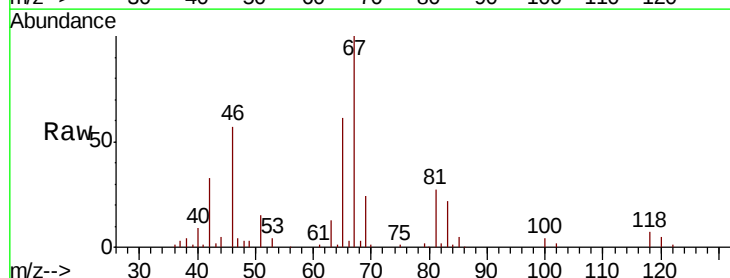
Tgt Ion: 83 Resp: 14213

Ion Ratio Lower Upper

83 100

55 0.5 70.7 106.1#

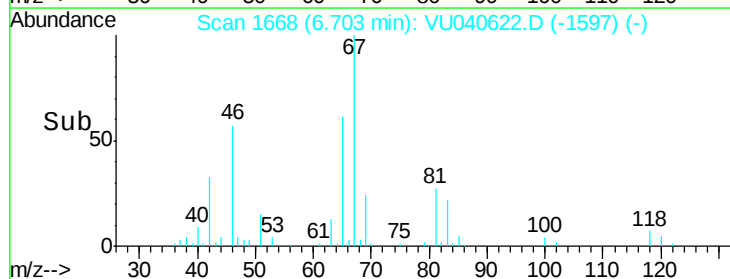
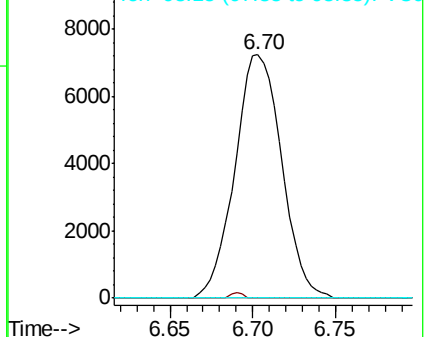
98 0.3 38.4 57.6#

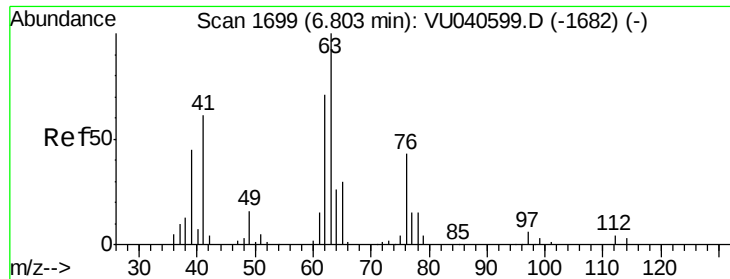


Abundance Ion 83.15 (82.85 to 83.85): VU040622.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU040622.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU040622.D (-1597) (-)

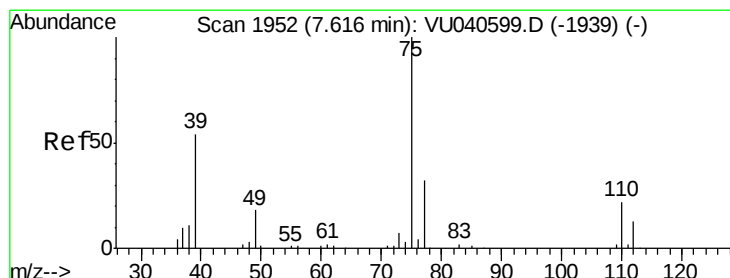
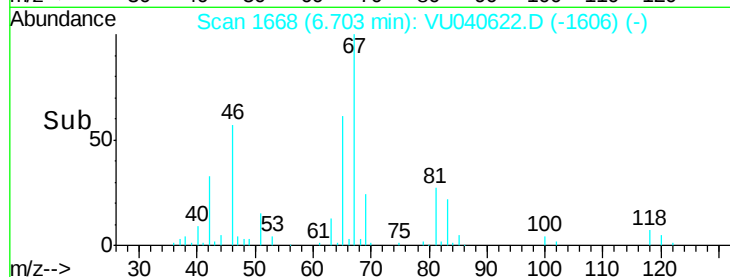
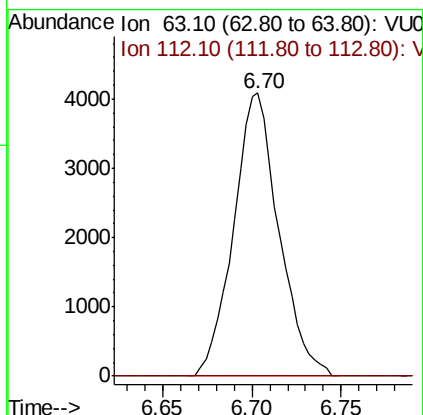
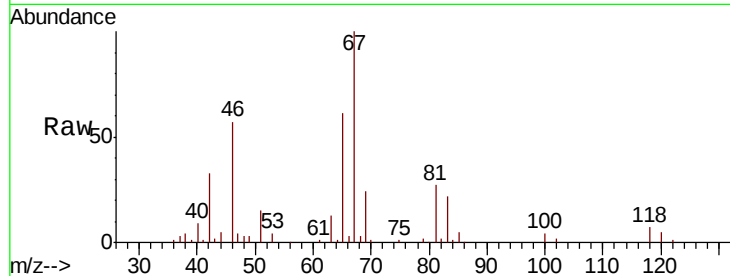




#37
 1,2-Dichloropropane
 Concen: 0.594 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040622.D
 Acq: 10 Oct 2020 06:43

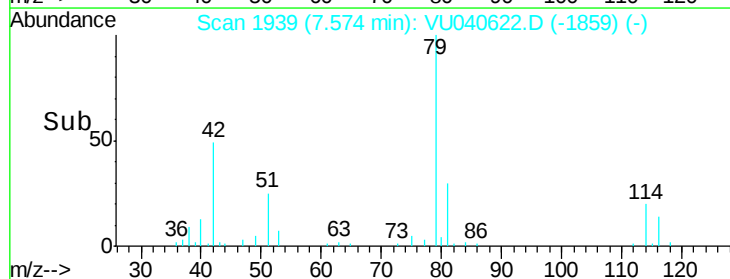
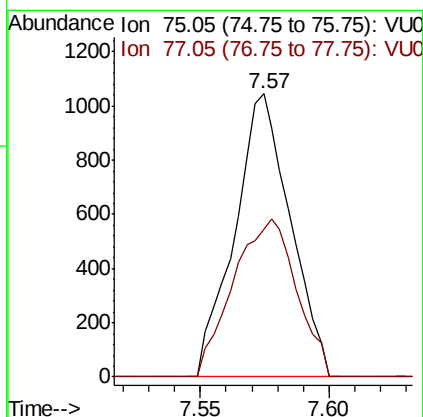
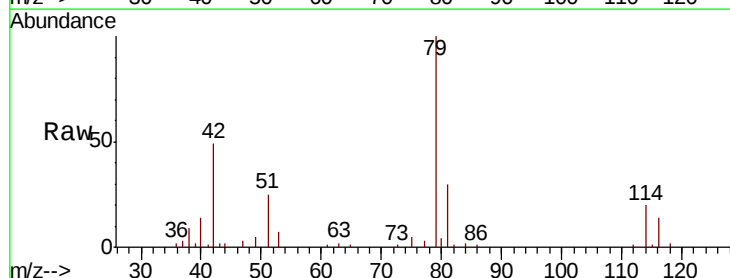
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ15

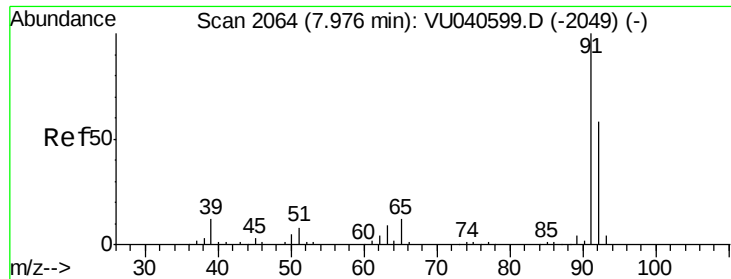
Tot Ion: 63 Resp: 7245
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.094 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040622.D
 Acq: 10 Oct 2020 06:43

Tgt Ion: 75 Resp: 1574
 Ion Ratio Lower Upper
 75 100
 77 52.2 20.5 38.1#





#42

Toluene

Concen: 0.064 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampleId :

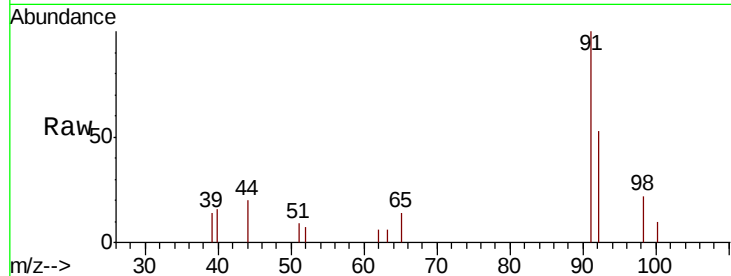
ETZ15

Tot Ion: 91 Resp: 2839

Ion Ratio Lower Upper

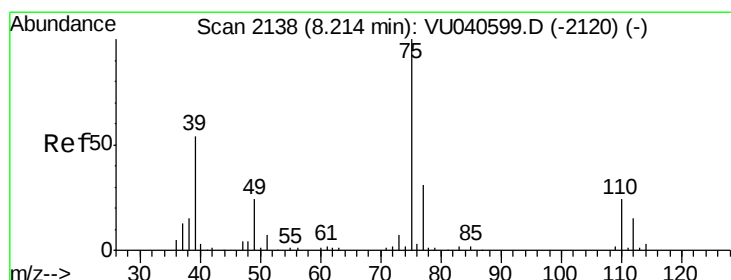
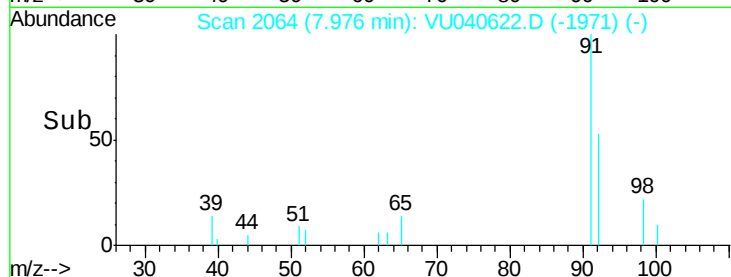
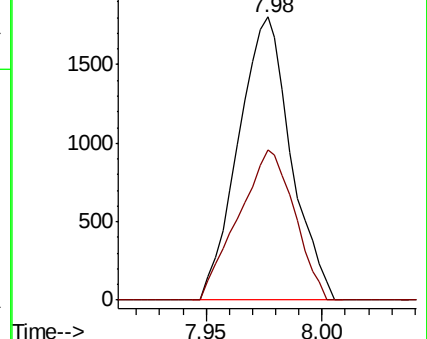
91 100

92 53.2 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.071 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040622.D

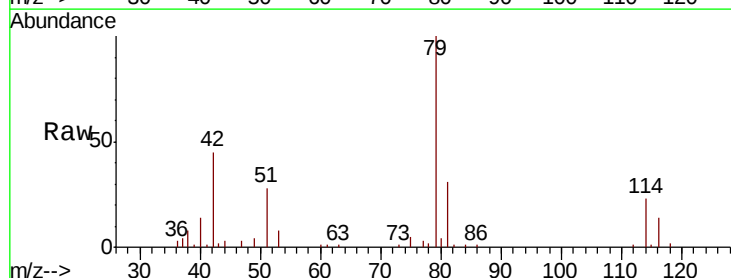
Acq: 10 Oct 2020 06:43

Tgt Ion: 75 Resp: 1097

Ion Ratio Lower Upper

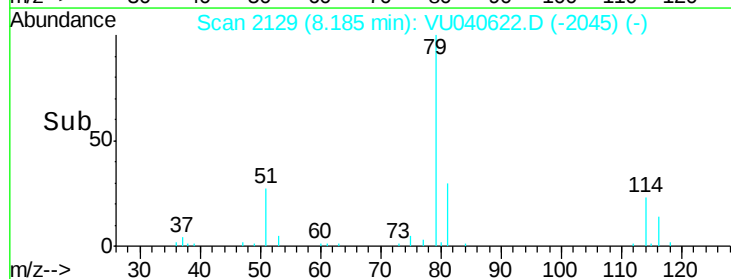
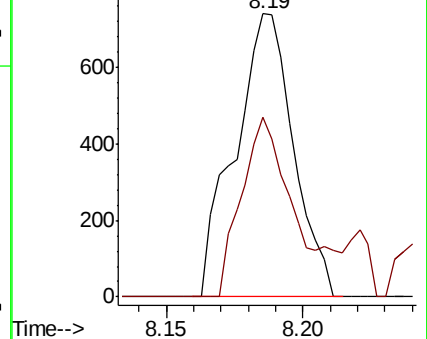
75 100

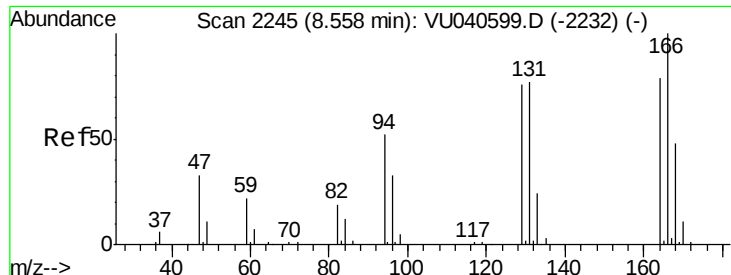
77 63.5 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

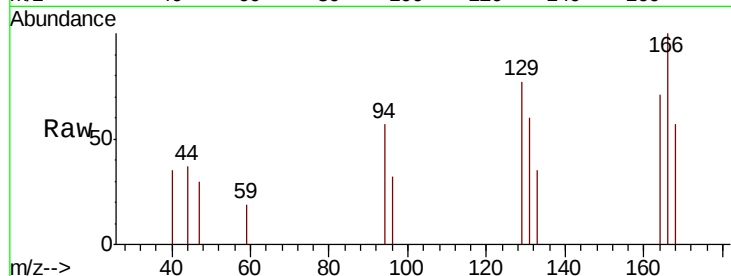




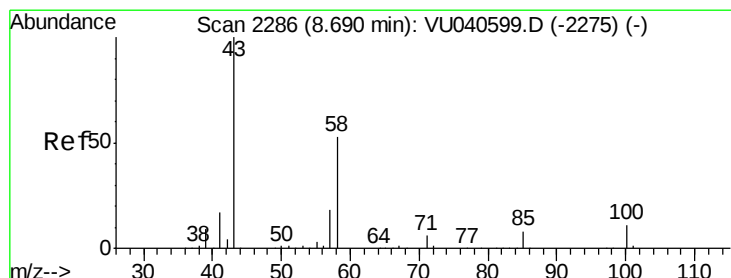
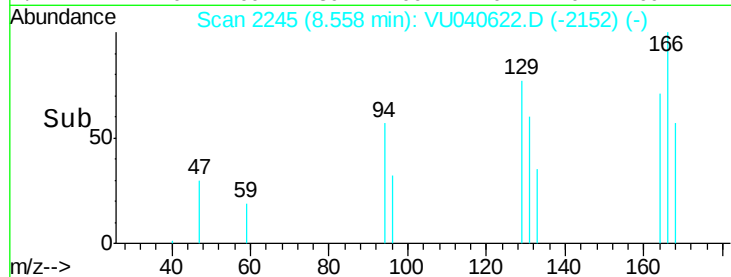
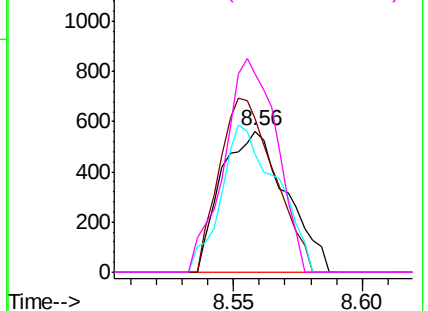
#47
Tetrachloroethene
Concen: 0.122 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU040622.D
Acq: 10 Oct 2020 06:43

Instrument :
MSVOA_U
ClientSampled :
ETZ15

Tot Ion:164 Resp: 985
Ion Ratio Lower Upper
164 100
129 109.1 68.8 127.8
131 83.8 66.7 123.9
166 140.7 83.9 155.7

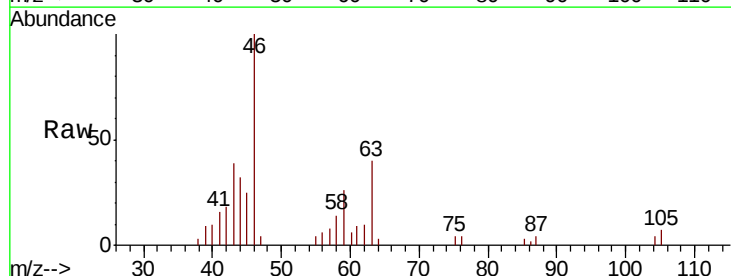


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

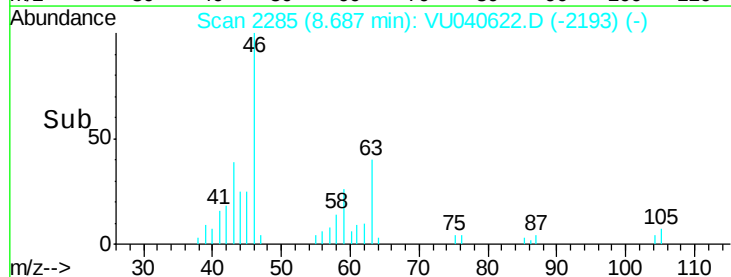
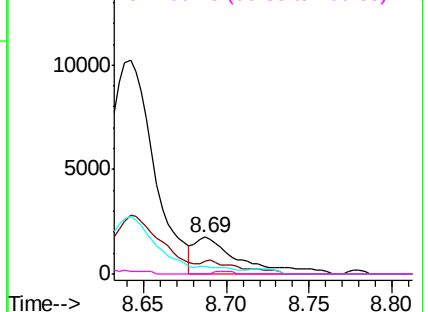


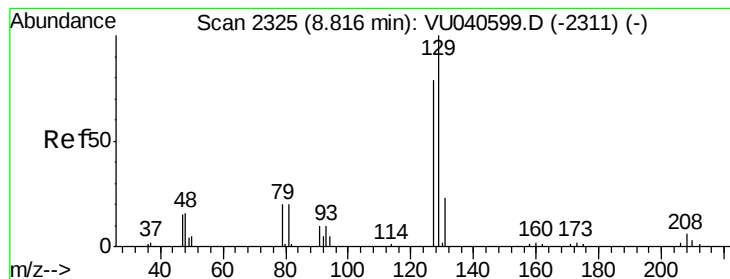
#48
2-Hexanone
Concen: 0.462 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. -0.00 min
Lab File: VU040622.D
Acq: 10 Oct 2020 06:43

Tgt Ion: 43 Resp: 3349
Ion Ratio Lower Upper
43 100
58 32.5 41.0 61.6#
57 8.4 14.4 21.6#
100 3.0 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: 0.098 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.26 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampleId :

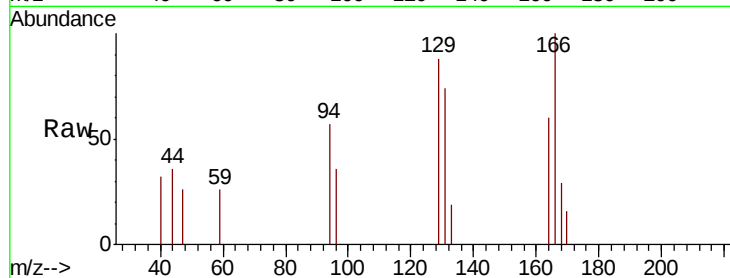
ETZ15

Tot Ion:129 Resp: 1029

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

8.55

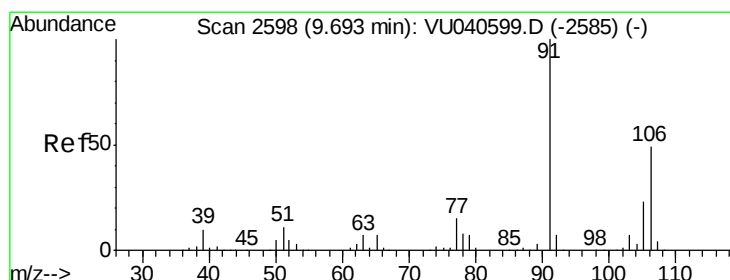
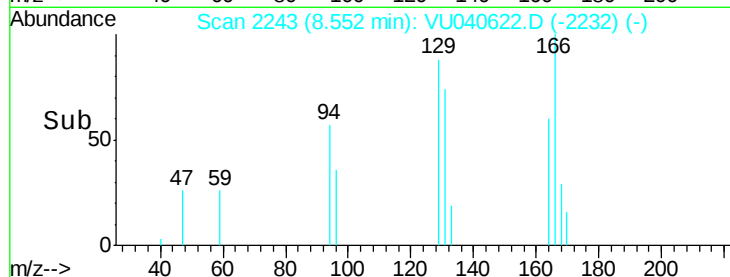
600

400

200

0

Time-->



#53

m,p-Xylene

Concen: 0.057 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040622.D

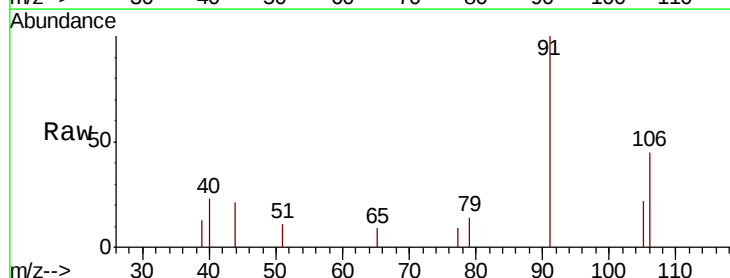
Acq: 10 Oct 2020 06:43

Tgt Ion:106 Resp: 996

Ion Ratio Lower Upper

106 100

91 221.7 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

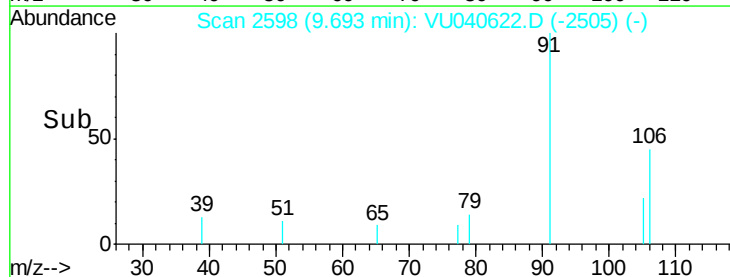
1500

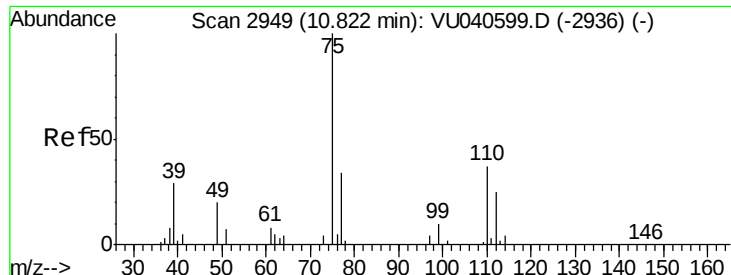
1000

500

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.861 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040622.D

Acq: 10 Oct 2020 06:43

Instrument :

MSVOA_U

ClientSampleId :

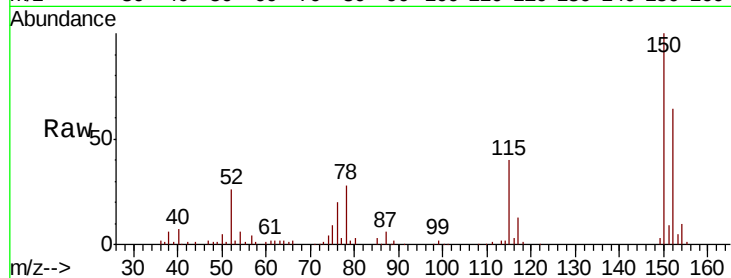
ETZ15

Tot Ion: 75 Resp: 7714

Ion Ratio Lower Upper

75 100

77 34.7 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

