

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101720\
 Data File : VU040789.D
 Acq On : 18 Oct 2020 02:14
 Operator : SY/MD
 Sample : L4354-21
 Misc : 25.4mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ40

Quant Time: Oct 19 03:12:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 19 03:08:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	124735	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	131383	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51082	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	47072	4.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.00%
7) Chloroethane-d5	1.93	69	33059	4.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.00%
11) 1,1-Dichloroethene-d2	2.58	63	57283	2.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.80%#
20) 2-Butanone-d5	4.67	46	194539	58.82	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.64%
24) Chloroform-d	5.08	84	86932	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.72	65	54526	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.74	84	150299	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
36) 1,2-Dichloropropane-d6	6.70	67	53760	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.40%
41) Toluene-d8	7.91	98	111355	3.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.20%
43) trans-1,3-Dichloropropene-	8.19	79	18976	3.81	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.20%
46) 2-Hexanone-d5	8.64	63	123398	48.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.10%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	51624	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	47786	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	3309	0.313 ug/L #	74
5) Vinyl chloride	1.61	62	1630233	146.469 ug/L	99
8) Chloroethane	2.16	64	1179	0.166 ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	488	0.047 ug/L #	1
12) 1,1-Dichloroethene	2.59	96	1797	0.202 ug/L #	1
14) Carbon disulfide	2.82	76	2625	0.105 ug/L	98
17) Methyl tert-butyl Ether	3.39	73	3652	0.145 ug/L	98
18) trans-1,2-Dichloroethene	3.37	96	2092	0.225 ug/L	96
22) cis-1,2-Dichloroethene	4.69	96	582781	58.007 ug/L	96
34) Trichloroethene	6.56	95	12310	1.125 ug/L	96
35) Methylcyclohexane	6.70	83	12254	0.790 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	6054	0.515 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1271	0.079 ug/L #	65
44) trans-1,3-Dichloropropene	8.19	75	786	0.053 ug/L #	34
47) Tetrachloroethene	8.56	164	12482	1.599 ug/L	96
48) 2-Hexanone	8.64	43	17360	2.487 ug/L #	75
49) Dibromochloromethane	8.56	129	11879	1.172 ug/L #	9

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 19 03:08:11 2020
Response via : Initial Calibration

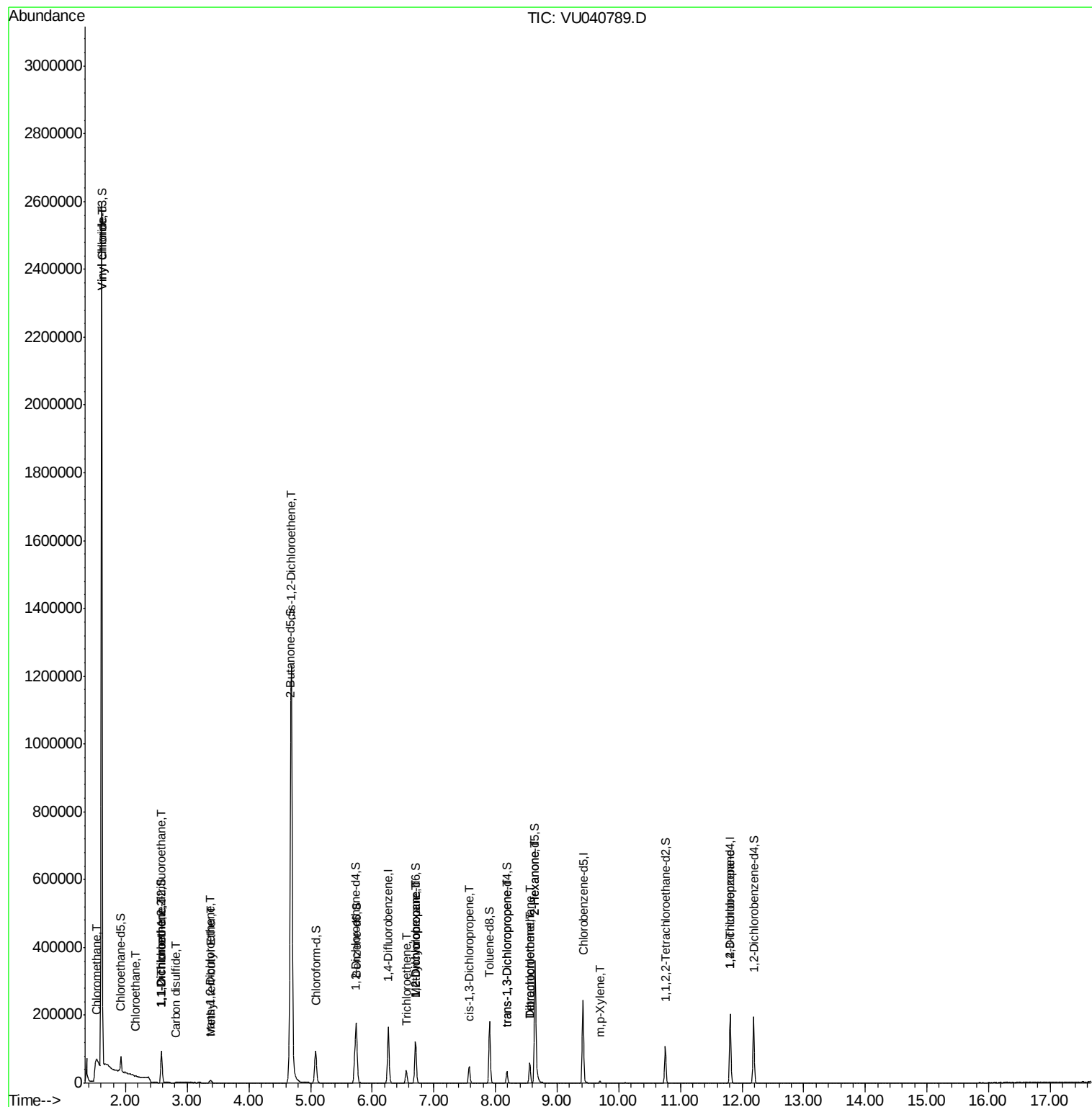
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.70	106	1412	0.083	ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	6986	0.809	ug/L	94

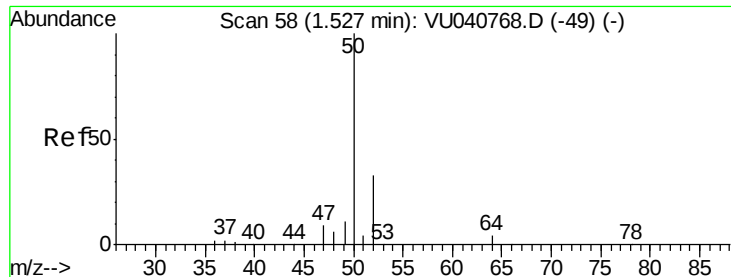
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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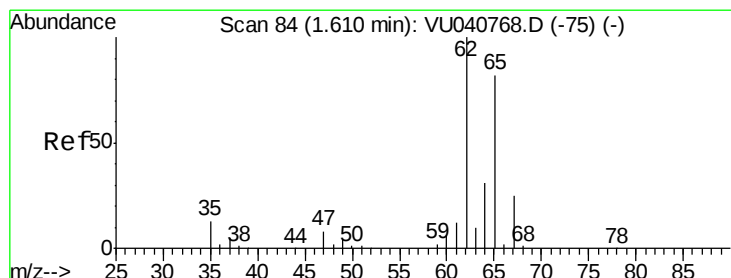
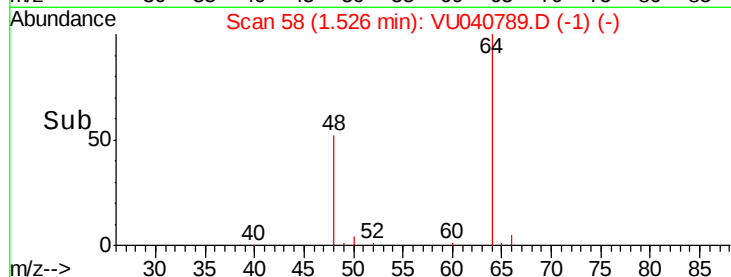
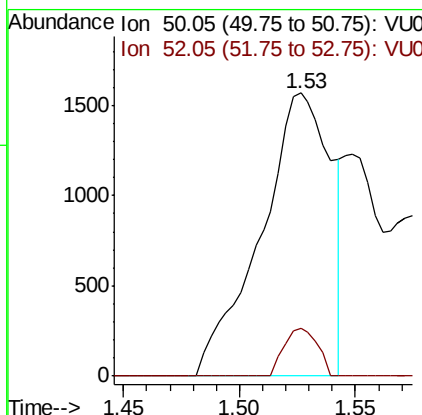
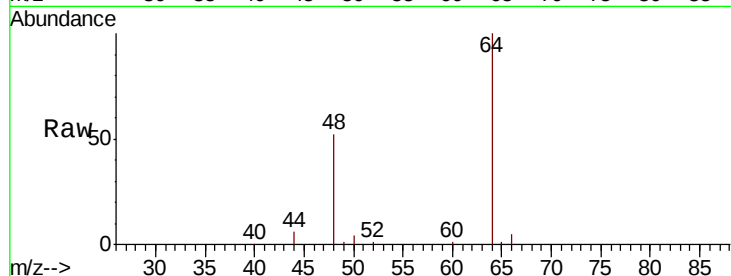




#3
Chloromethane
Concen: 0.313 ug/L
RT: 1.53 min Scan# 58
Delta R.T. -0.00 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

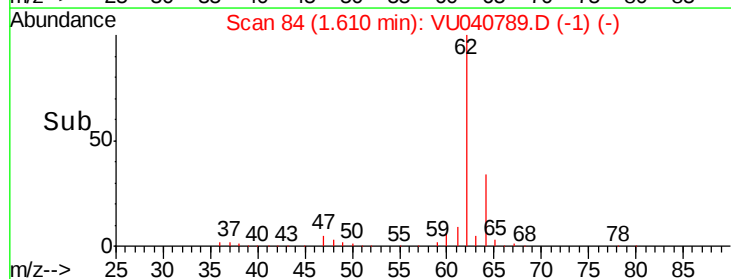
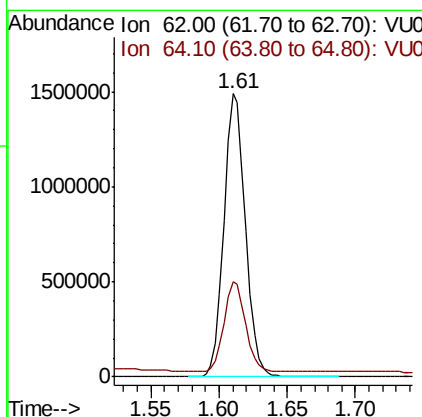
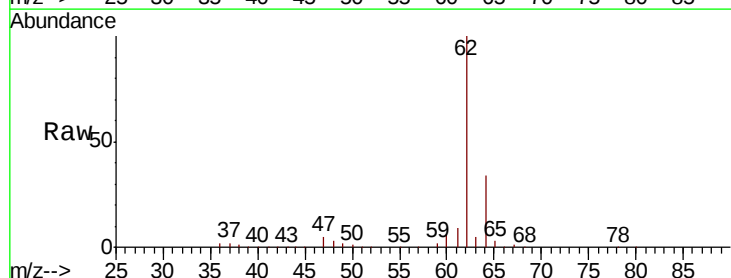
Instrument :
MSVOA_U
ClientSampleId :
ETZ40

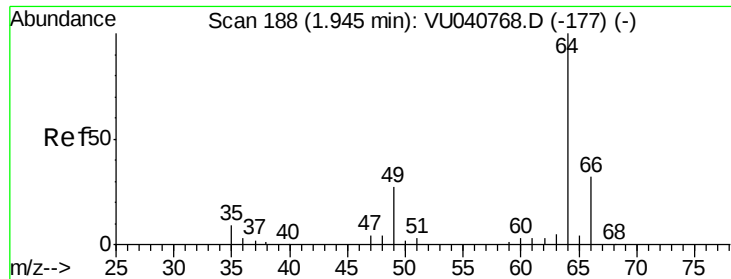
Tot Ion: 50 Resp: 3309
Ion Ratio Lower Upper
50 100
52 17.0 21.9 40.7#



#5
Vinyl chloride
Concen: 146.469 ug/L
RT: 1.61 min Scan# 84
Delta R.T. -0.00 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

Tgt Ion: 62 Resp: 1630233
Ion Ratio Lower Upper
62 100
64 33.6 23.7 44.1





#8

Chloroethane

Concen: 0.166 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.22 min

Lab File: VU040789.D

Acq: 18 Oct 2020 02:14

Instrument :

MSVOA_U

ClientSampled :

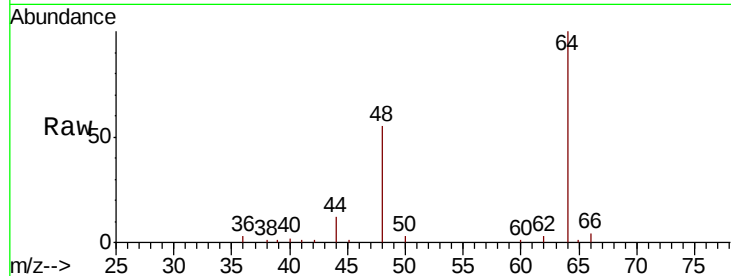
ETZ40

Tot Ion: 64 Resp: 1179

Ion Ratio Lower Upper

64 100

66 4.1 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU040789.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU040789.D (-177) (-)

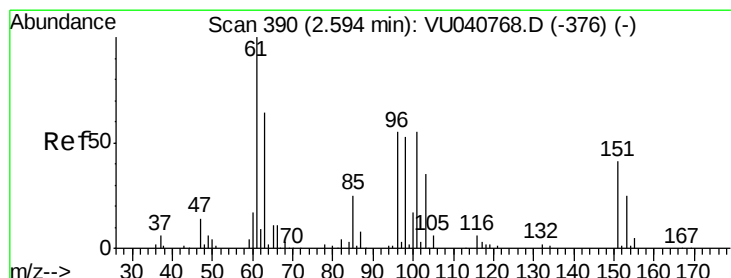
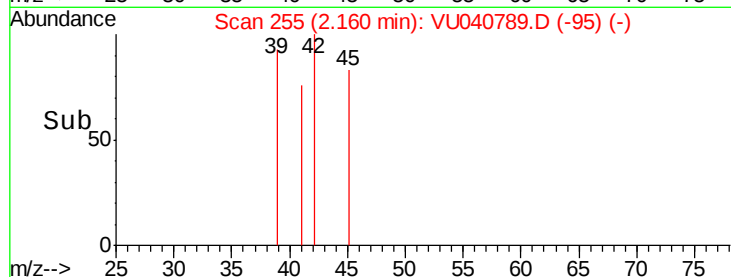
2.16

10000

5000

0

Time--> 2.14 2.16 2.18 2.20



#10

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

Concen: 0.047 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.01 min

Lab File: VU040789.D

Acq: 18 Oct 2020 02:14

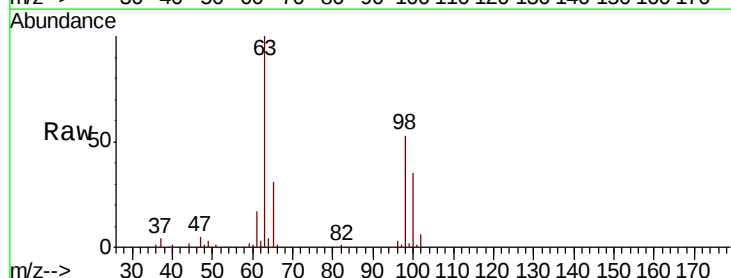
Tgt Ion: 101 Resp: 488

Ion Ratio Lower Upper

101 100

85 230.5 36.7 55.1#

151 0.0 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): VU040789.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VU040789.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VU040789.D (-297) (-)

2.59

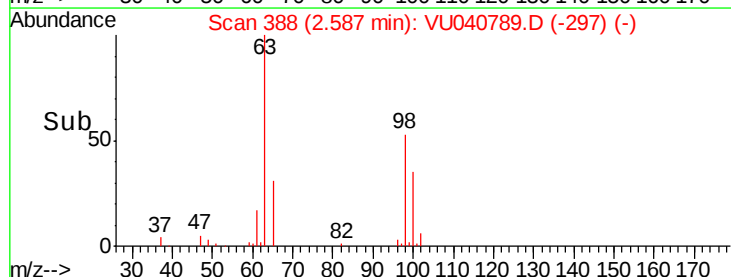
300

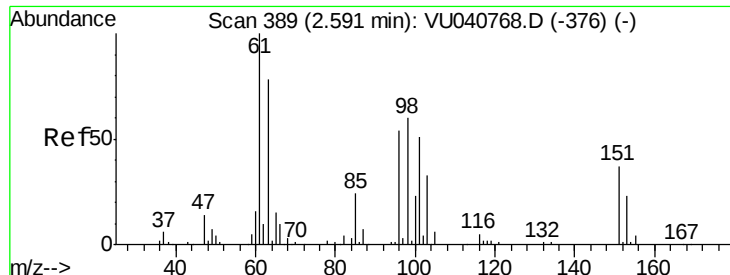
200

100

0

Time--> 2.54 2.56 2.58 2.60 2.62

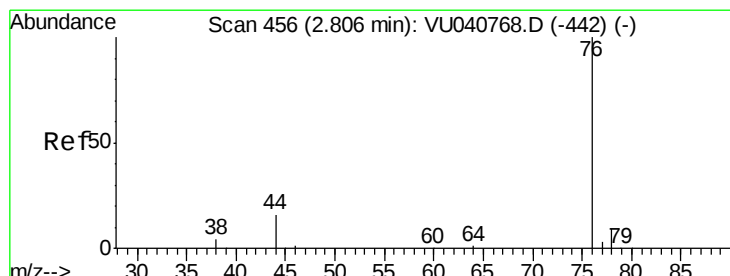
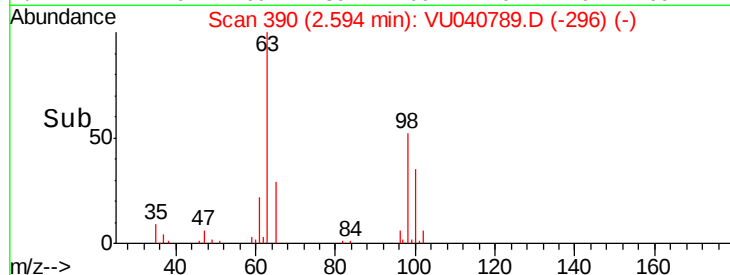
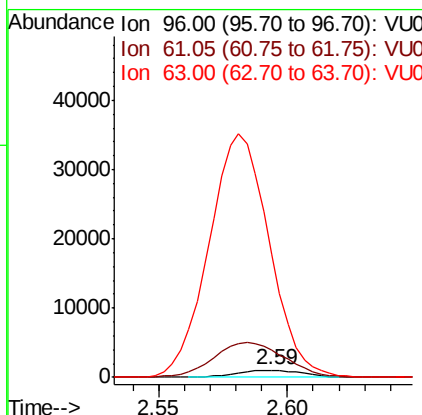
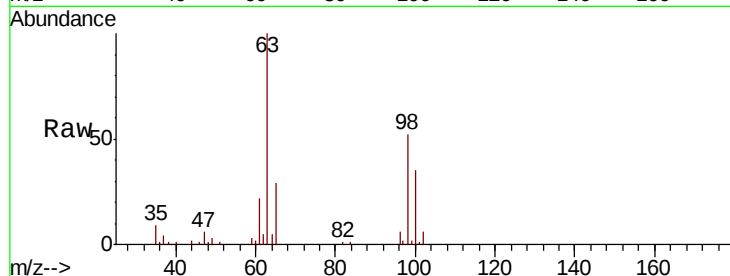




#12
 1,1-Dichloroethene
 Concen: 0.202 ug/L
 RT: 2.59 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VU040789.D
 Acq: 18 Oct 2020 02:14

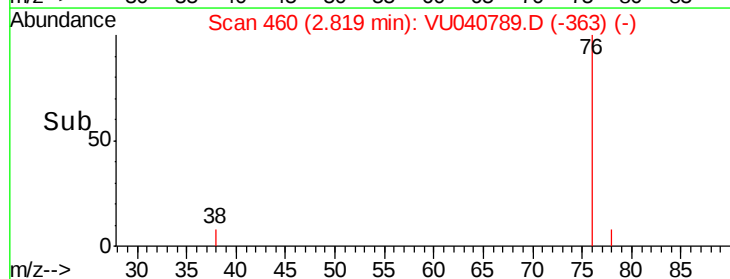
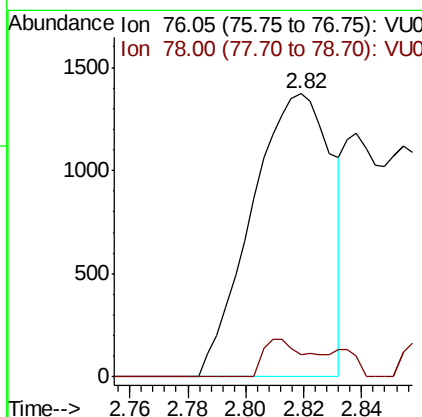
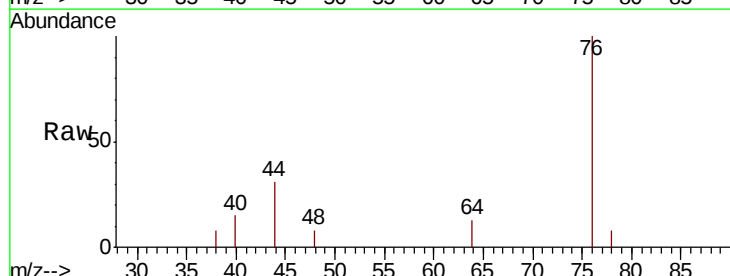
Instrument :
 MSVOA_U
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 ETZ40

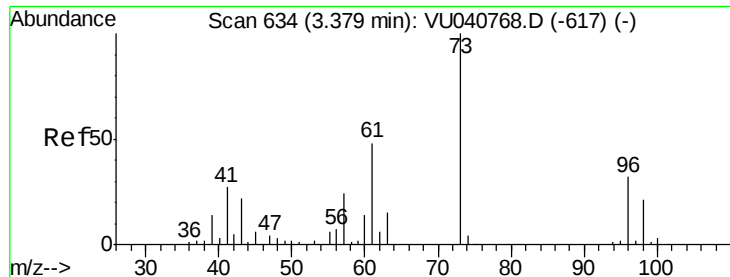
Tot Ion: 96 Resp: 1797
 Ion Ratio Lower Upper
 96 100
 61 388.1 128.8 239.2#
 63 1765.2 84.6 157.2#



#14
 Carbon disulfide
 Concen: 0.105 ug/L
 RT: 2.82 min Scan# 460
 Delta R.T. 0.01 min
 Lab File: VU040789.D
 Acq: 18 Oct 2020 02:14

Tgt Ion: 76 Resp: 2625
 Ion Ratio Lower Upper
 76 100
 78 7.9 6.8 10.2

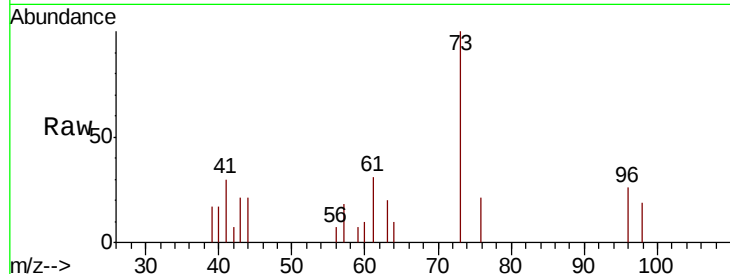




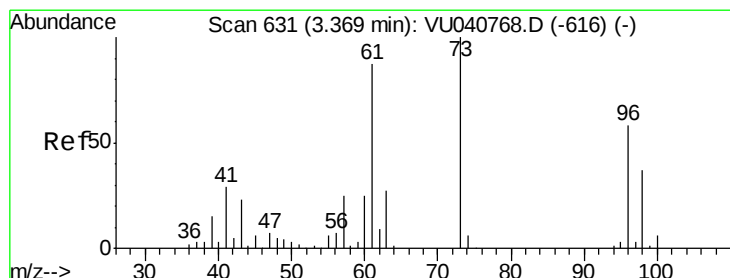
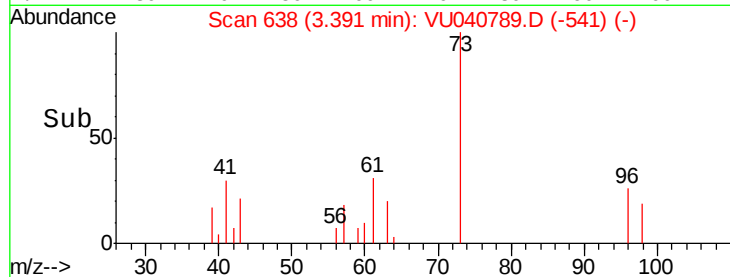
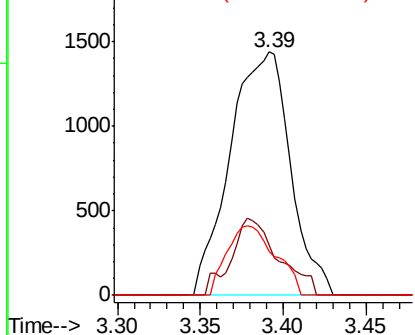
#17
Methvl tert-butvl Ether
Concen: 0.145 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.01 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

Instrument :
MSVOA_U
ClientSampleId :
ETZ40

Tot Ion: 73 Resp: 3652
Ion Ratio Lower Upper
73 100
43 24.9 18.2 27.4
57 22.9 18.6 28.0

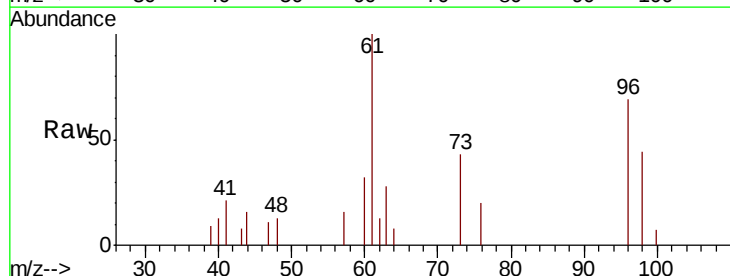


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

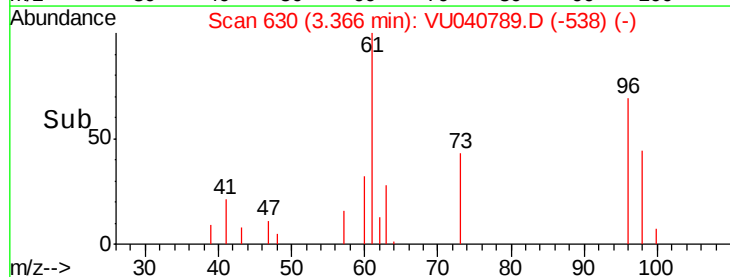
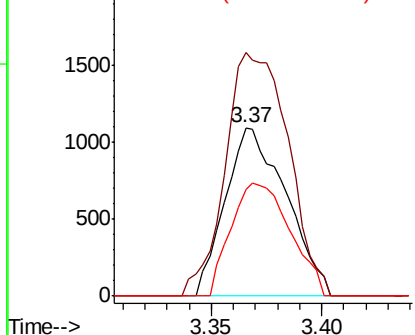


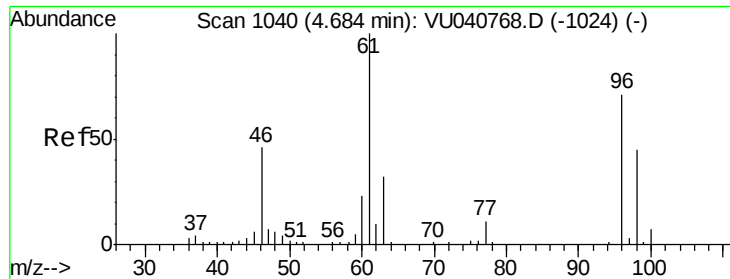
#18
trans-1,2-Dichloroethene
Concen: 0.225 ug/L
RT: 3.37 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

Tgt Ion: 96 Resp: 2092
Ion Ratio Lower Upper
96 100
61 144.7 105.9 196.7
98 63.2 43.8 81.3



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

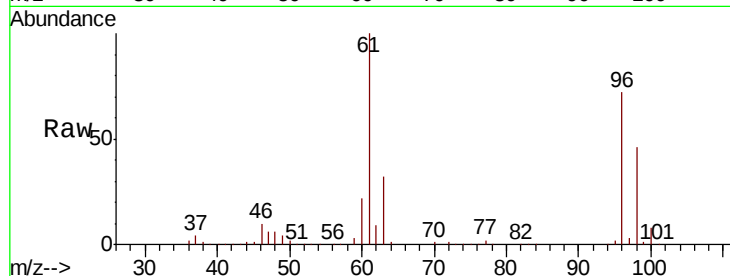




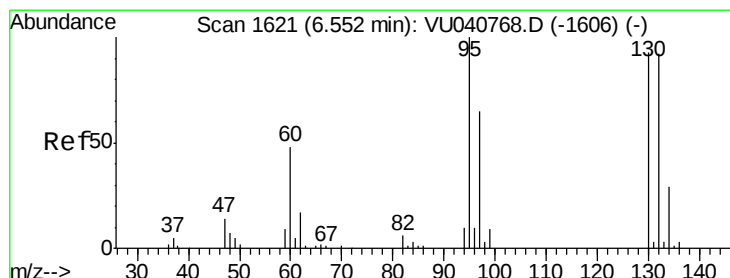
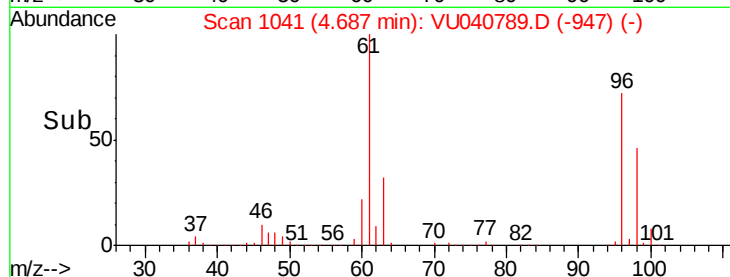
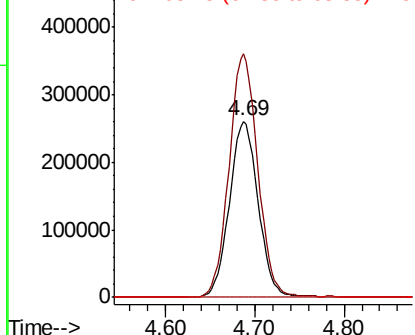
#22
 cis-1,2-Dichloroethene
 Concen: 58.007 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040789.D
 Acq: 18 Oct 2020 02:14

Instrument :
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 ETZ40

Tot Ion: 96 Resp: 582781
 Ion Ratio Lower Upper
 96 100
 61 138.1 99.8 185.4
 68 0.0 0.0 0.0

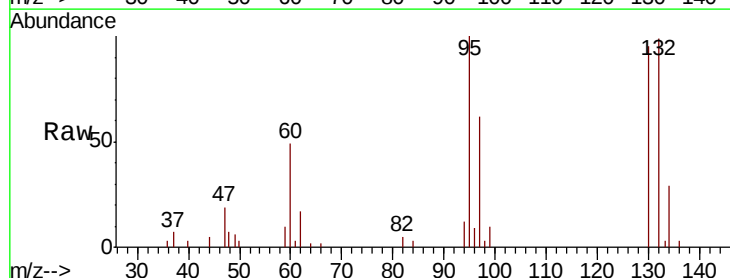


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

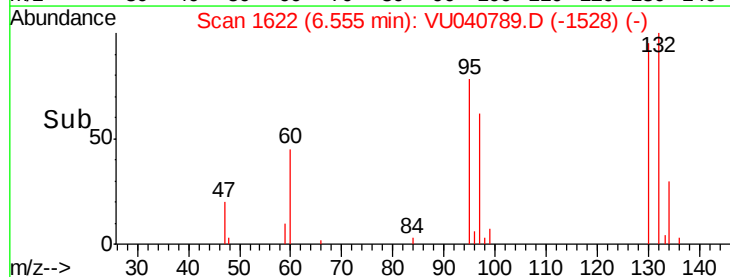
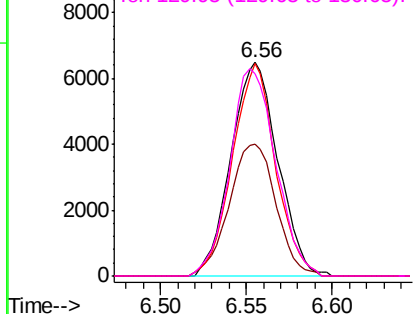


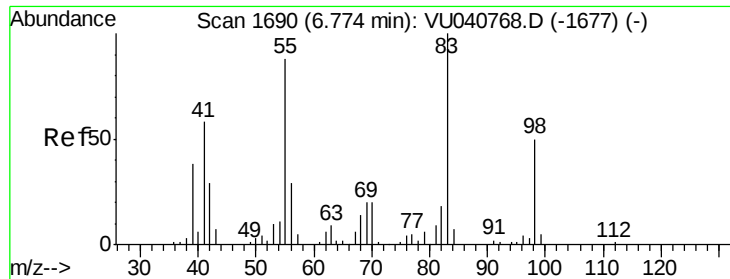
#34
 Trichloroethene
 Concen: 1.125 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040789.D
 Acq: 18 Oct 2020 02:14

Tgt Ion: 95 Resp: 12310
 Ion Ratio Lower Upper
 95 100
 97 61.8 45.5 84.5
 132 99.5 67.5 125.4
 130 94.7 69.9 129.9



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

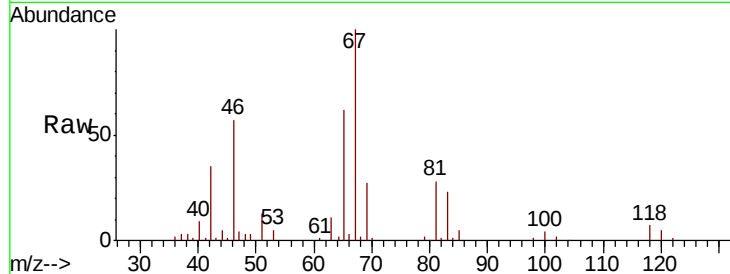




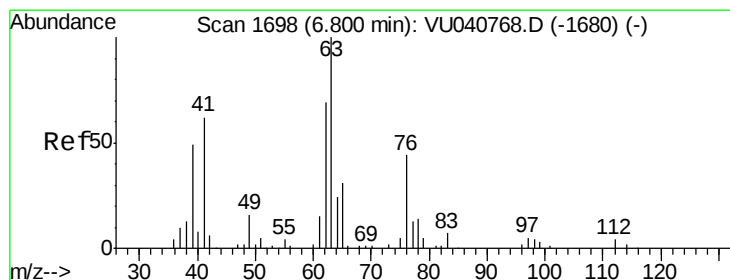
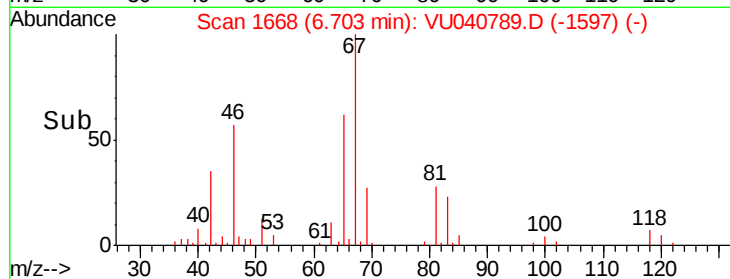
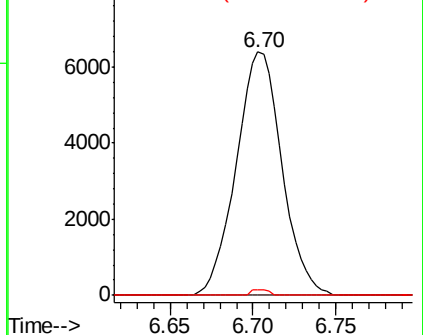
#35
Methvlcvclohexane
Concen: 0.790 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

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Tot Ion: 83 Resp: 12254
Ion Ratio Lower Upper
83 100
55 0.0 70.7 106.1#
98 0.9 38.4 57.6#

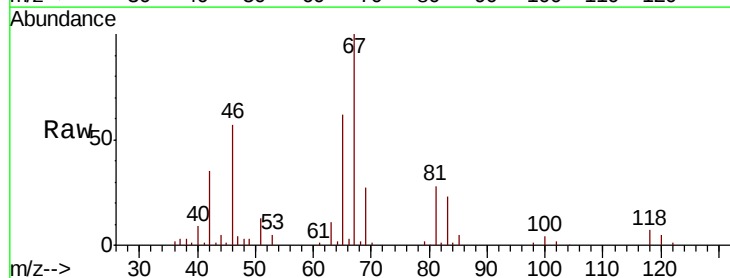


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

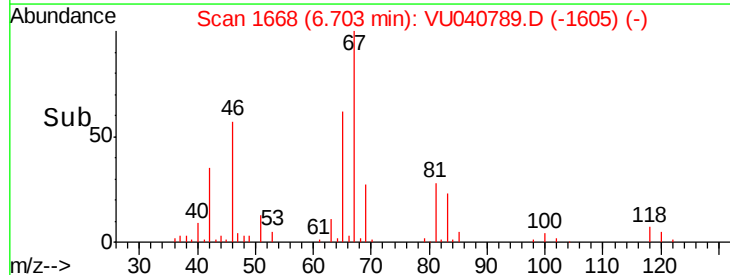
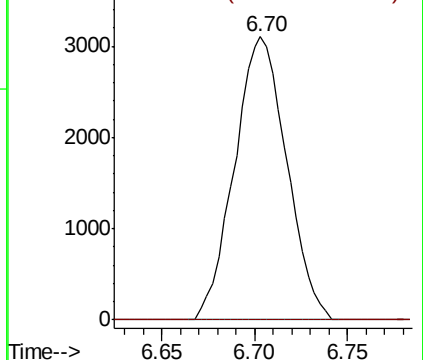


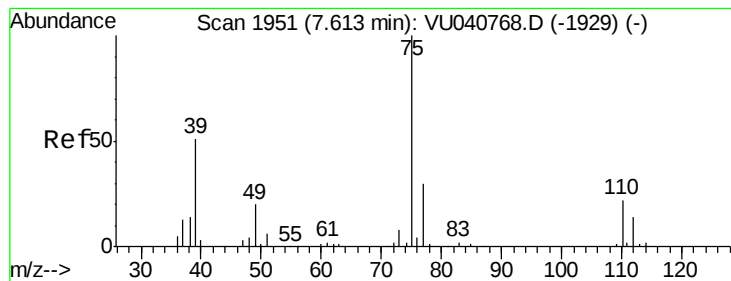
#37
1,2-Dichloropropane
Concen: 0.515 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

Tgt Ion: 63 Resp: 6054
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



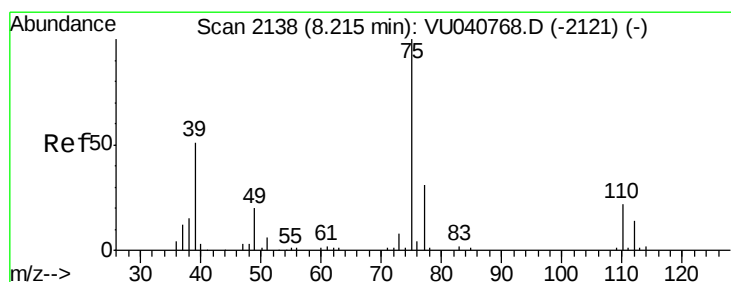
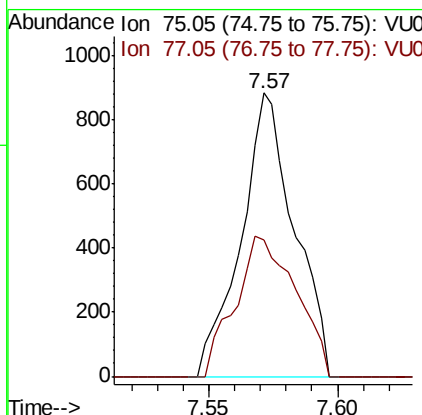
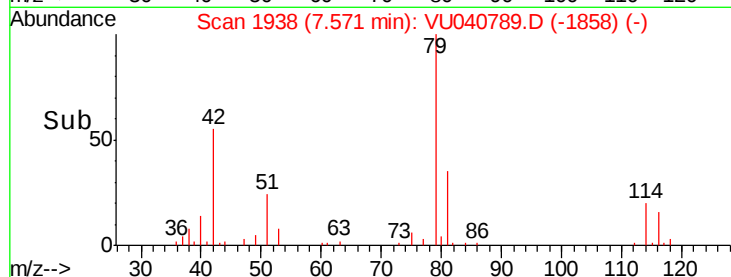
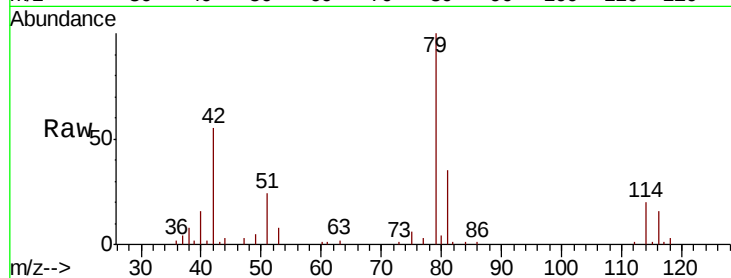


#39

cis-1,3-Dichloropropene
Concen: 0.079 ug/L
RT: 7.57 min Scan# 1938
Delta R.T. -0.04 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

Instrument :
MSVOA_U
ClientSampleId :
ETZ40

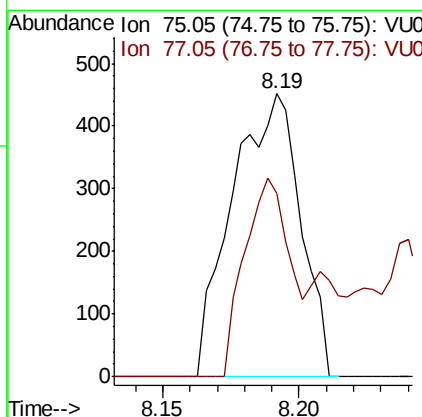
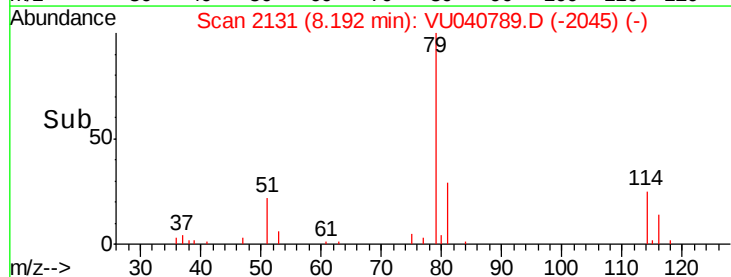
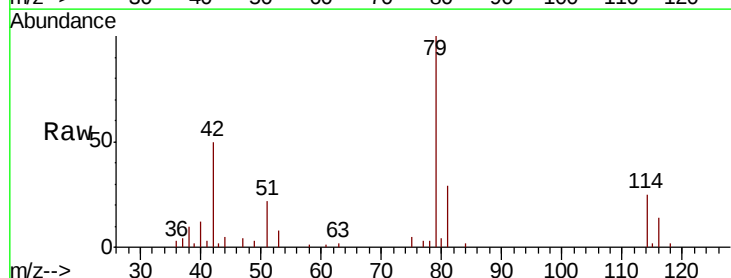
Tot Ion: 75 Resp: 1271
Ion Ratio Lower Upper
75 100
77 48.1 20.5 38.1#

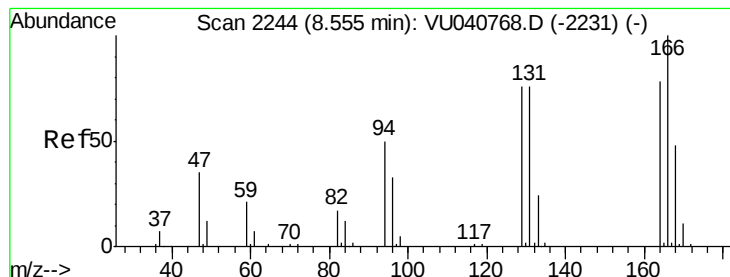


#44

trans-1,3-Dichloropropene
Concen: 0.053 ug/L
RT: 8.19 min Scan# 2131
Delta R.T. -0.02 min
Lab File: VU040789.D
Acq: 18 Oct 2020 02:14

Tgt Ion: 75 Resp: 786
Ion Ratio Lower Upper
75 100
77 64.6 20.4 38.0#





#47

Tetrachloroethene

Concen: 1.599 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040789.D

Acq: 18 Oct 2020 02:14

Instrument :

MSVOA_U

ClientSampleId :

ETZ40

Tot Ion:164 Resp: 12482

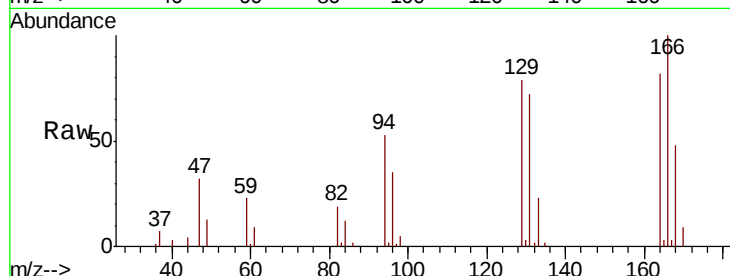
Ion Ratio Lower Upper

164 100

129 95.7 68.8 127.8

131 87.2 66.7 123.9

166 121.3 83.9 155.7

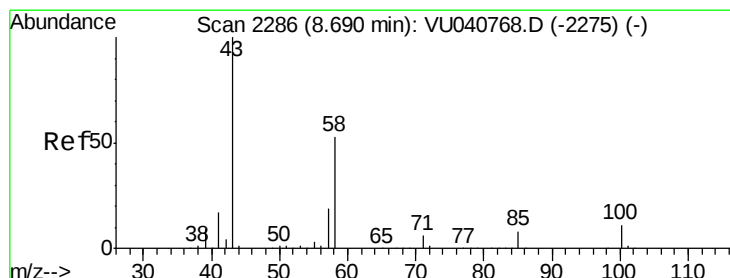
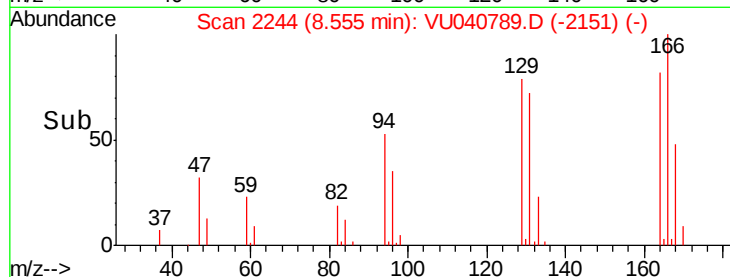
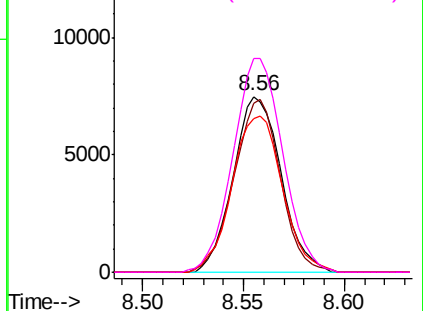


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.487 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040789.D

Acq: 18 Oct 2020 02:14

Tgt Ion: 43 Resp: 17360

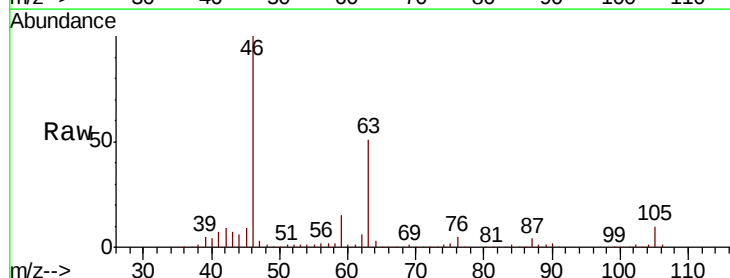
Ion Ratio Lower Upper

43 100

58 34.1 41.0 61.6#

57 30.5 14.4 21.6#

100 1.4 8.6 13.0#

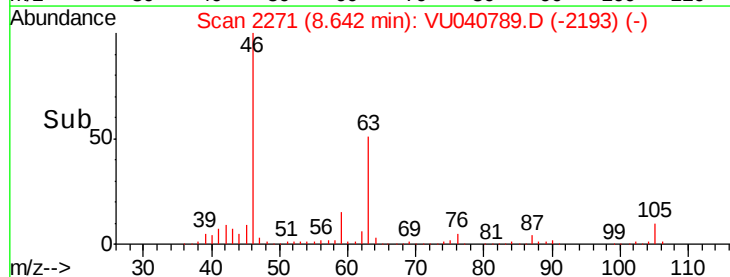
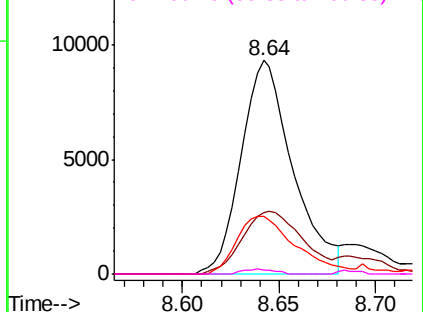


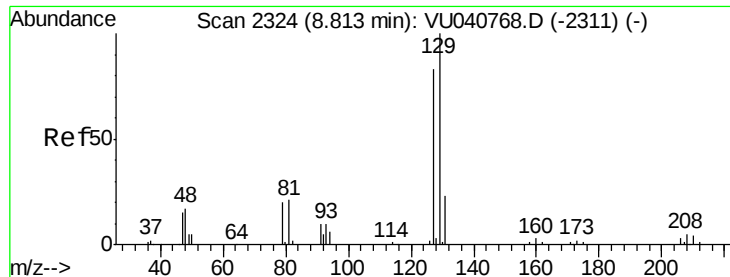
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 1.172 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040789.D

Acq: 18 Oct 2020 02:14

Instrument :

MSVOA_U

ClientSampled :

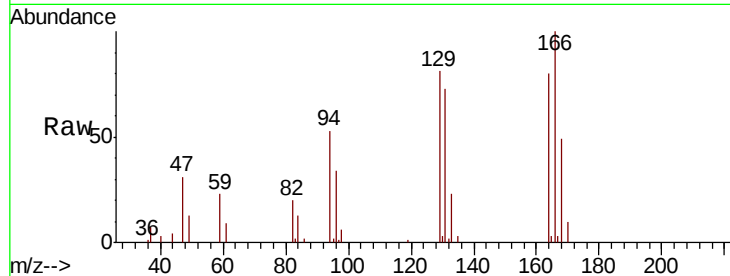
ETZ40

Tot Ion:129 Resp: 11879

Ion Ratio Lower Upper

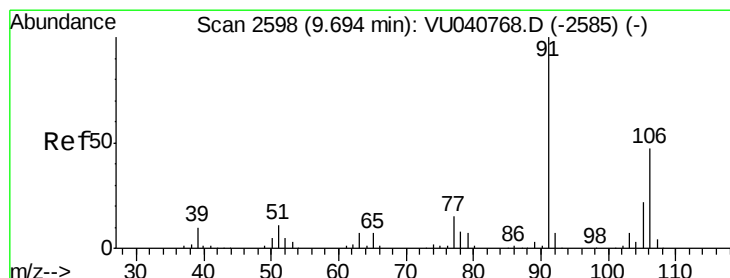
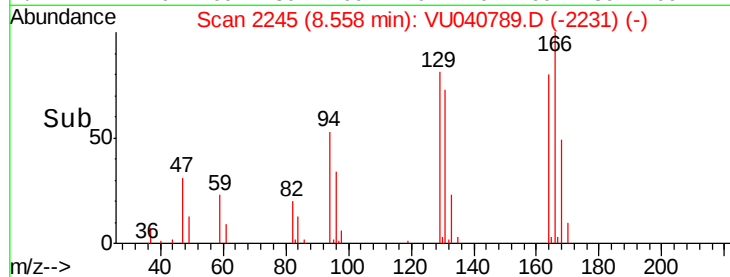
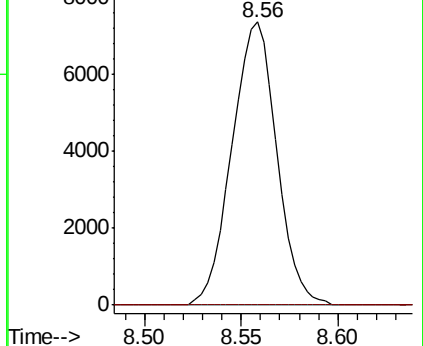
129 100

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



#53

m,p-Xylene

Concen: 0.083 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040789.D

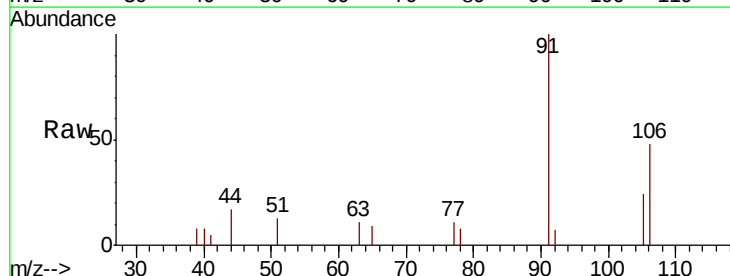
Acq: 18 Oct 2020 02:14

Tgt Ion:106 Resp: 1412

Ion Ratio Lower Upper

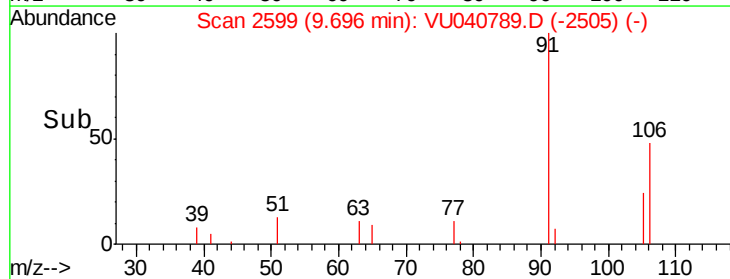
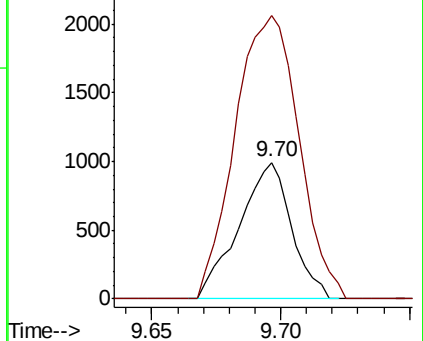
106 100

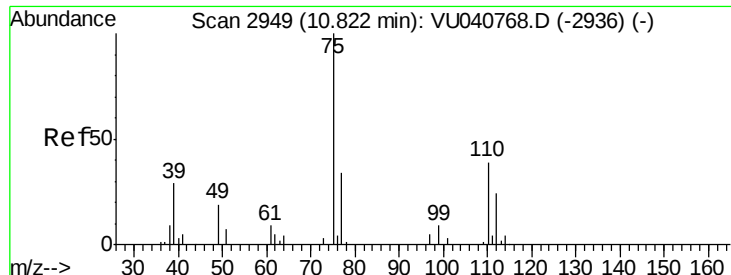
91 207.7 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 0.809 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040789.D

Acq: 18 Oct 2020 02:14

Instrument :

MSVOA_U

ClientSampleId :

ETZ40

Tot Ion: 75 Resp: 6986

Ion Ratio Lower Upper

75 100

77 36.5 26.4 39.6

