

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080820\
 Data File : VU039803.D
 Acq On : 08 Aug 2020 11:44
 Operator : SY/MD
 Sample : L3590-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 10 01:18:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR080320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Aug 10 01:16:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	67898	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	65868	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	32694	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	14322	3.91	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.20%
7) Chloroethane-d5	1.92	69	16165	4.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.60%
11) 1,1-Dichloroethene-d2	2.57	63	27108	3.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.40%
20) 2-Butanone-d5	4.72	46	86141	53.42	ug/L	0.06
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.84%
24) Chloroform-d	5.08	84	40234	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
26) 1,2-Dichloroethane-d4	5.72	65	26410	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
32) Benzene-d6	5.74	84	70658	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
36) 1,2-Dichloropropane-d6	6.71	67	26574	4.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.00%
41) Toluene-d8	7.90	98	53387	3.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.80%
43) trans-1,3-Dichloropropene-	8.19	79	8838	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	8.65	63	57962	52.06	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.12%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	24570	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	28332	5.06	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.60	62	3978	0.721	ug/L #	67
13) Acetone	2.74	43	24039	25.286	ug/L	64
14) Carbon disulfide	2.80	76	1157	0.091	ug/L #	66
15) Methyl Acetate	2.74	43	19175	8.178	ug/L #	56
18) trans-1,2-Dichloroethene	3.36	96	2217	0.492	ug/L	93
22) cis-1,2-Dichloroethene	4.68	96	1416	0.289	ug/L	99
25) Chloroform	5.11	83	2416	0.270	ug/L	80
33) Benzene	5.79	78	6746	0.376	ug/L	100
34) Trichloroethene	6.55	95	2035	0.437	ug/L	95
35) Methylcyclohexane	6.70	83	6104	0.821	ug/L #	28
37) 1,2-Dichloropropane	6.71	63	3158	0.663	ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	810	0.125	ug/L #	47
40) 4-Methyl-2-pentanone	7.81	43	11884	3.336	ug/L	96
42) Toluene	7.97	91	5609	0.297	ug/L	88
47) Tetrachloroethene	8.56	164	630	0.164	ug/L	94
48) 2-Hexanone	8.70	43	2400	0.933	ug/L #	91
49) Dibromochloromethane	8.55	129	670	0.152	ug/L #	12

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Response via : Initial Calibration

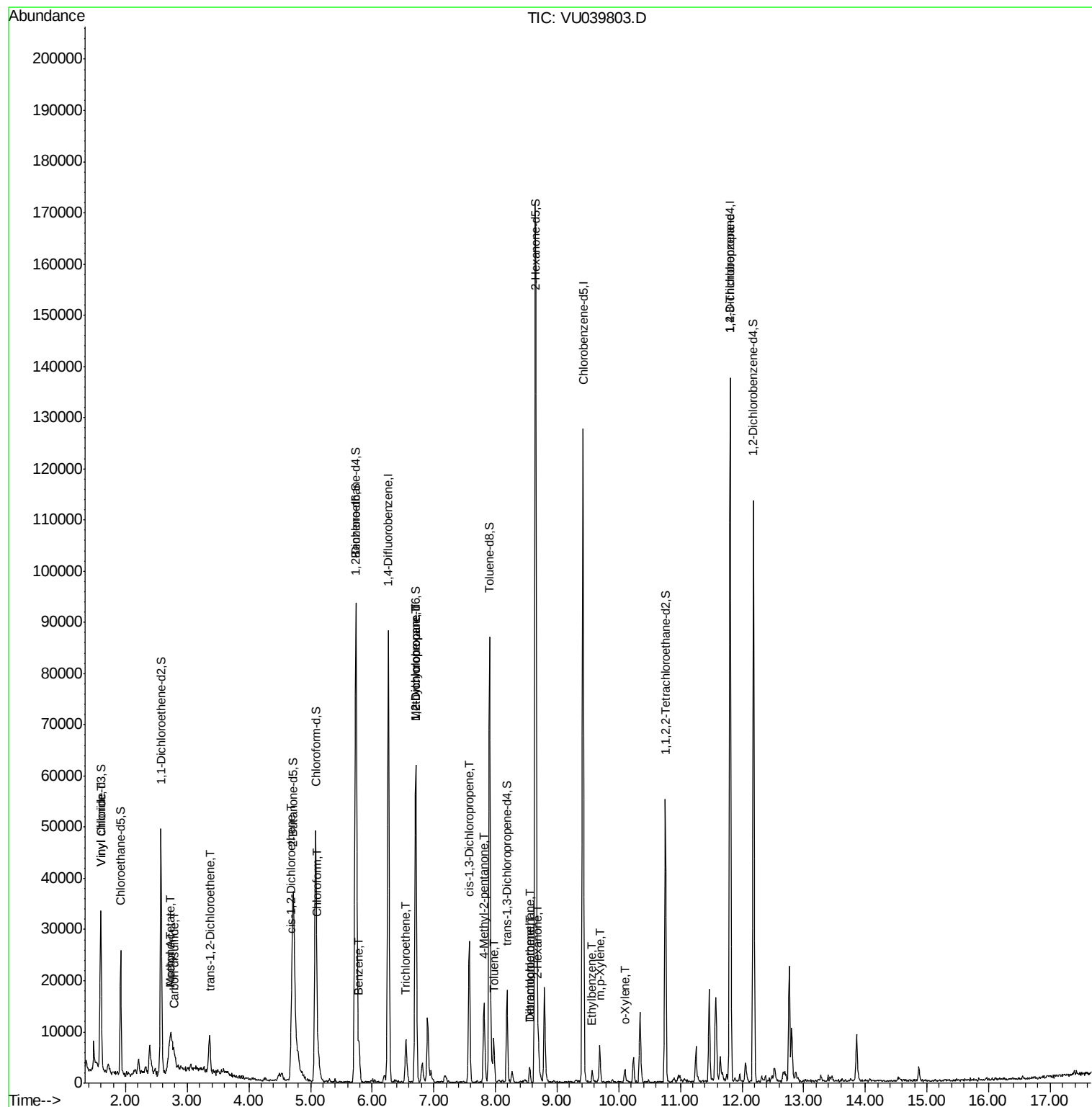
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.57	91	1749	0.083	ug/L	95
53) m,p-Xylene	9.69	106	2042	0.254	ug/L	99
54) o-Xylene	10.10	106	708	0.090	ug/L	94
59) 1,2,3-Trichloropropane	11.81	75	4688	1.363	ug/L #	85

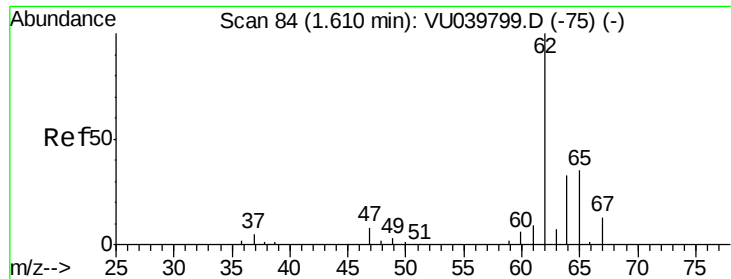
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.721 ug/L

RT: 1.60 min Scan# 82

Delta R.T. -0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA_U

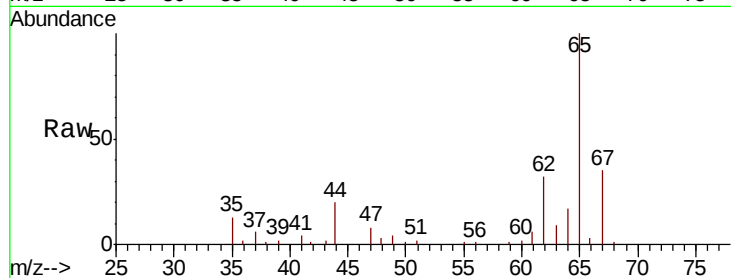
ClientSampleId :

Tot Ion: 62 Resp: 3978

Ion Ratio Lower Upper

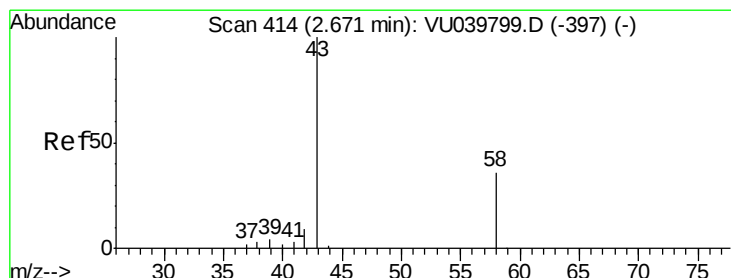
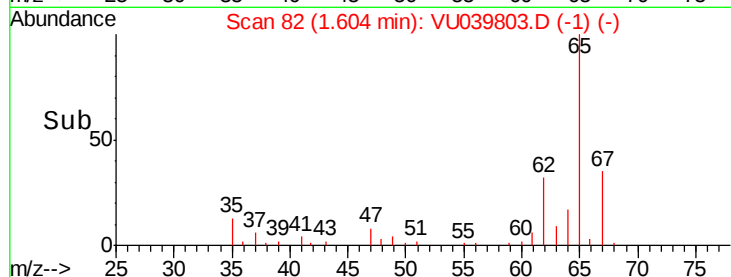
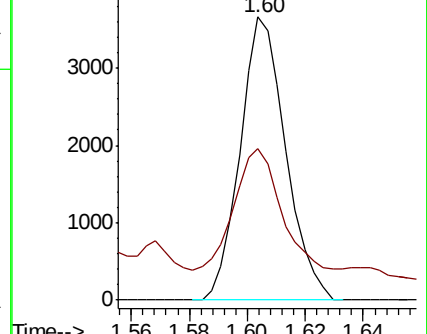
62 100

64 53.6 24.1 44.7#



Abundance Ion 62.00 (61.70 to 62.70): VU039799.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039799.D (-75) (-)



#13

Acetone

Concen: 25.286 ug/L

RT: 2.74 min Scan# 435

Delta R.T. 0.07 min

Lab File: VU039803.D

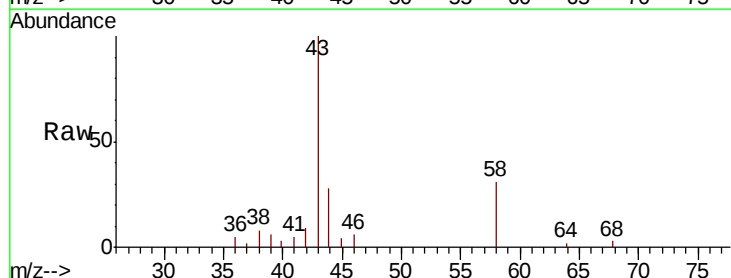
Acq: 08 Aug 2020 11:44

Tgt Ion: 43 Resp: 24039

Ion Ratio Lower Upper

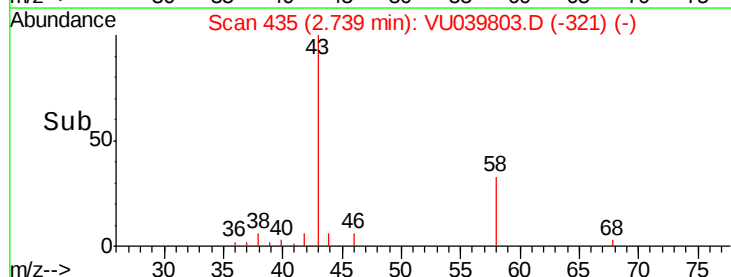
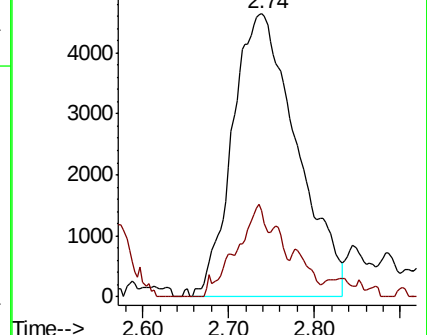
43 100

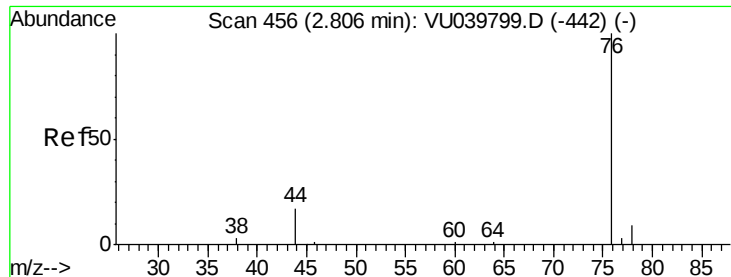
58 11.2 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU039799.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU039799.D (-397) (-)





#14

Carbon disulfide

Concen: 0.091 ug/L

RT: 2.80 min Scan# 454

Delta R.T. -0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA_U

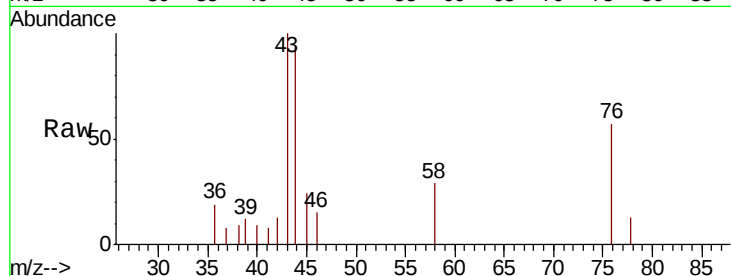
ClientSampleId :

Tot Ion: 76 Resp: 1157

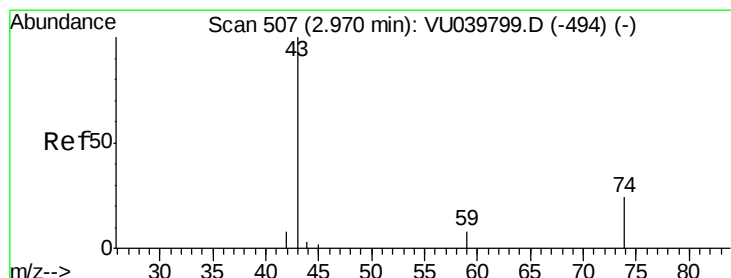
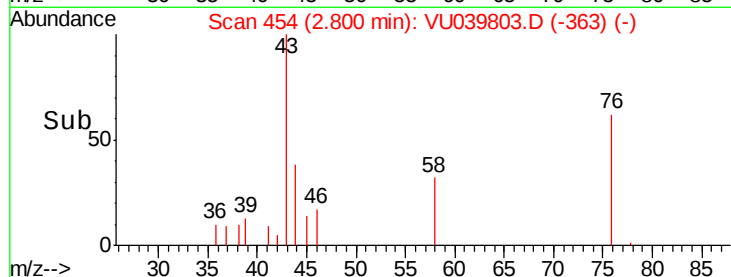
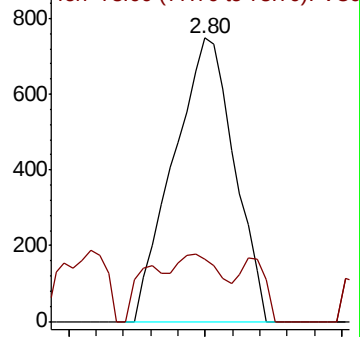
Ion Ratio Lower Upper

76 100

78 22.1 7.8 11.6#



Abundance Ion 76.05 (75.75 to 76.75): VU039799.D (-442) (-)



#15

Methyl Acetate

Concen: 8.178 ug/L

RT: 2.74 min Scan# 435

Delta R.T. -0.23 min

Lab File: VU039803.D

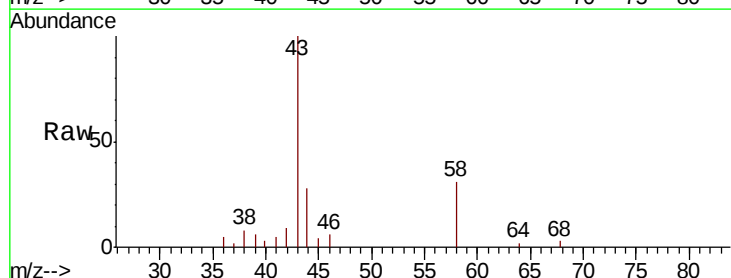
Acq: 08 Aug 2020 11:44

Tgt Ion: 43 Resp: 19175

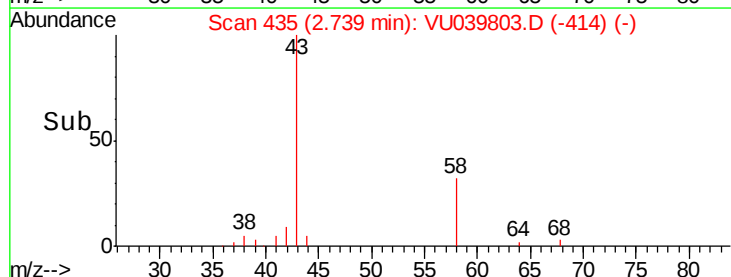
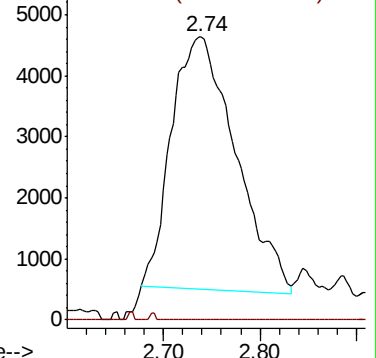
Ion Ratio Lower Upper

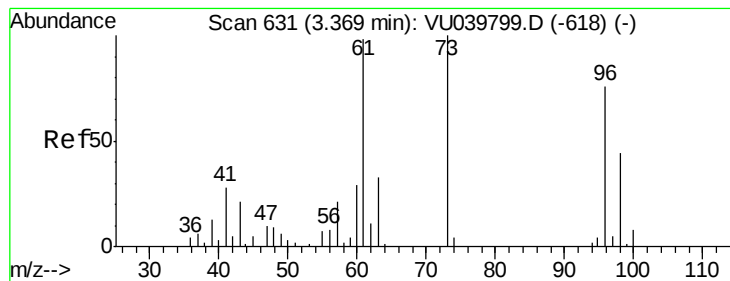
43 100

74 0.2 16.6 25.0#



Abundance Ion 43.05 (42.75 to 43.75): VU039799.D (-494) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.492 ug/L

RT: 3.36 min Scan# 629

Delta R.T. -0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA_U

ClientSampled :

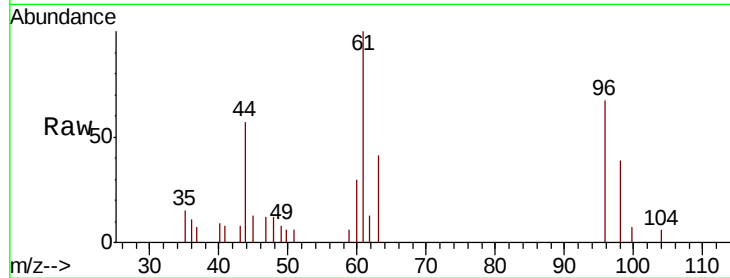
Tot Ion: 96 Resp: 2217

Ion Ratio Lower Upper

96 100

61 150.3 96.5 179.1

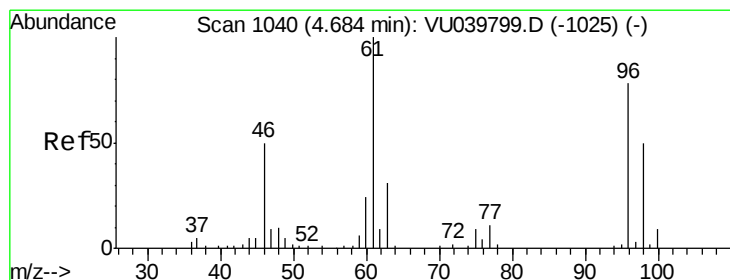
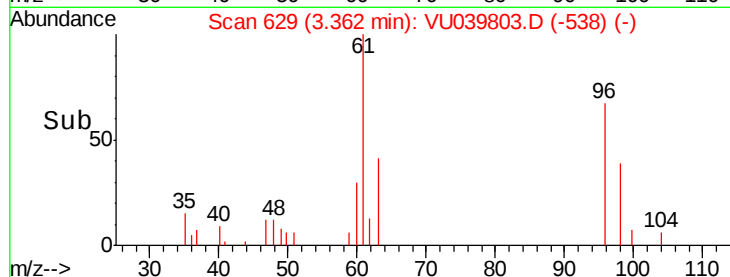
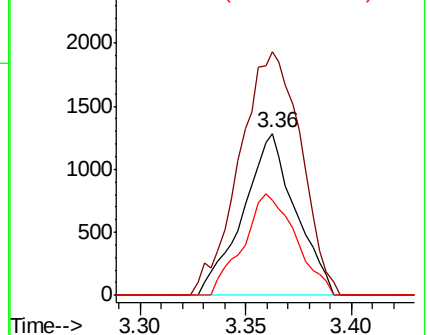
98 59.1 40.9 76.0



Abundance Ion 96.00 (95.70 to 96.70): VU039799.D (-618) (-)

Ion 61.05 (60.75 to 61.75): VU039799.D (-618) (-)

Ion 97.95 (97.65 to 98.65): VU039799.D (-618) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.289 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

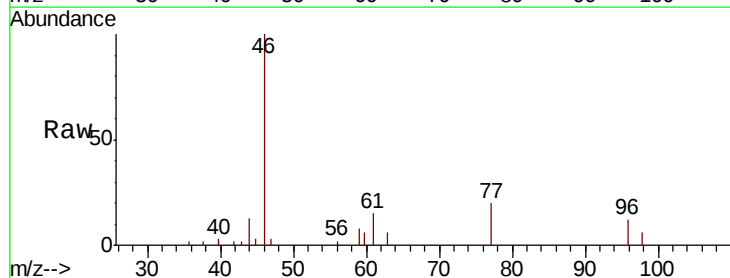
Tgt Ion: 96 Resp: 1416

Ion Ratio Lower Upper

96 100

61 126.5 87.4 162.2

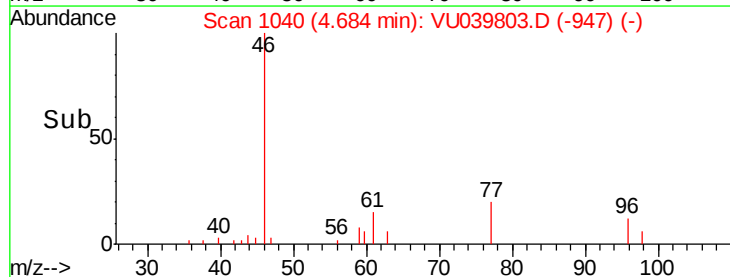
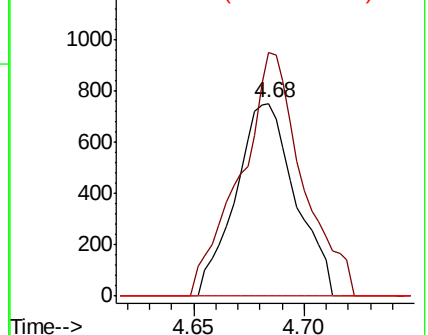
68 0.0 0.0 0.0

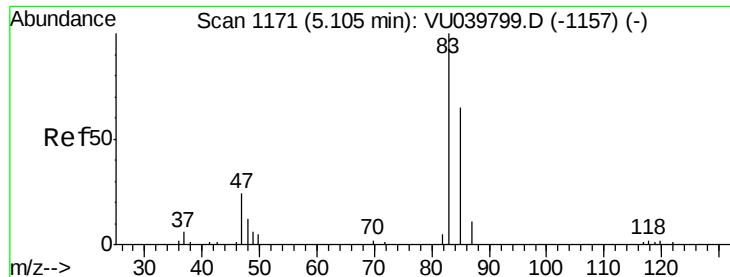


Abundance Ion 96.00 (95.70 to 96.70): VU039799.D (-1025) (-)

Ion 61.05 (60.75 to 61.75): VU039799.D (-1025) (-)

Ion 68.15 (67.85 to 68.85): VU039799.D (-1025) (-)

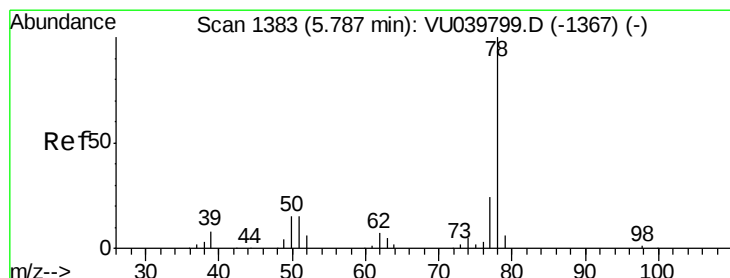
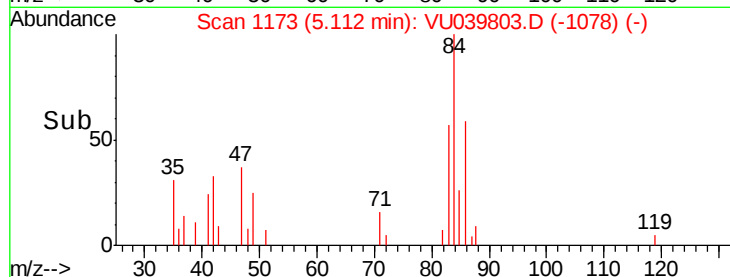
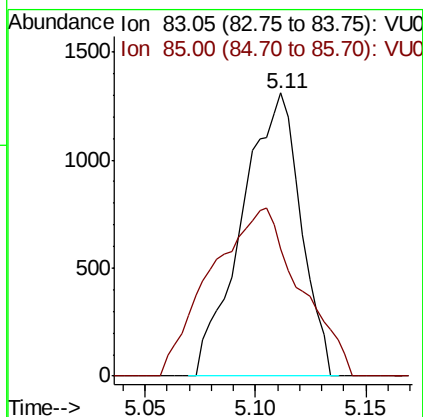
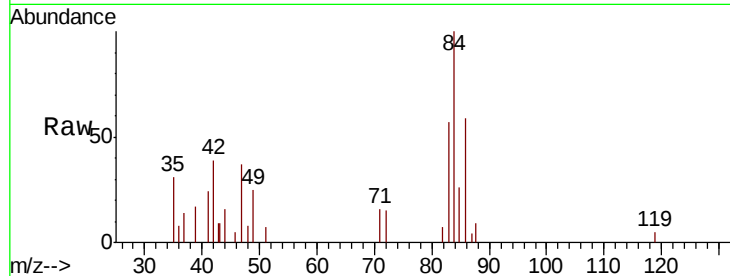




#25
Chloroform
Concen: 0.270 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.01 min
Lab File: VU039803.D
Acq: 08 Aug 2020 11:44

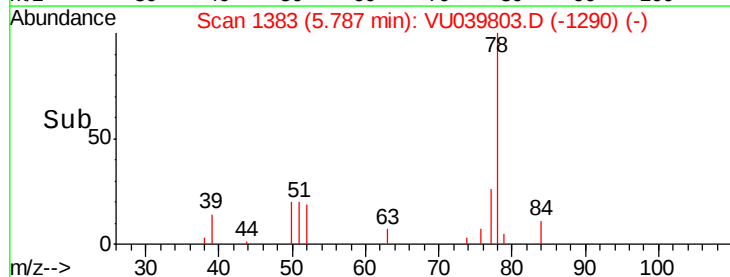
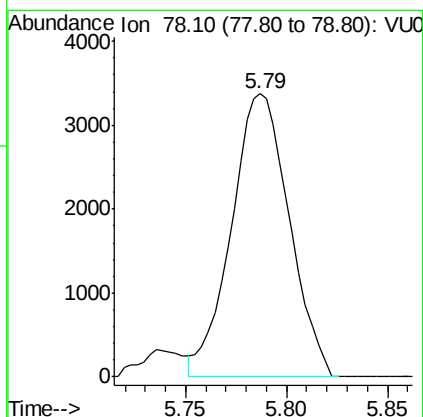
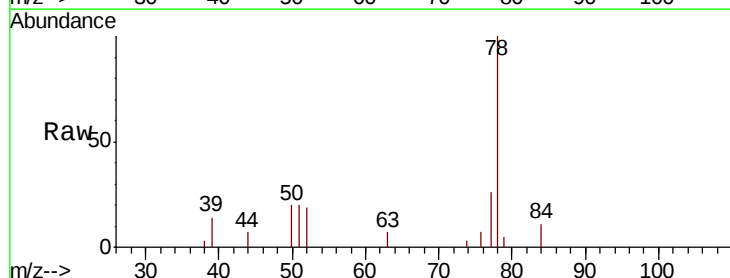
Instrument :
MSVOA_U
ClientSampleId :

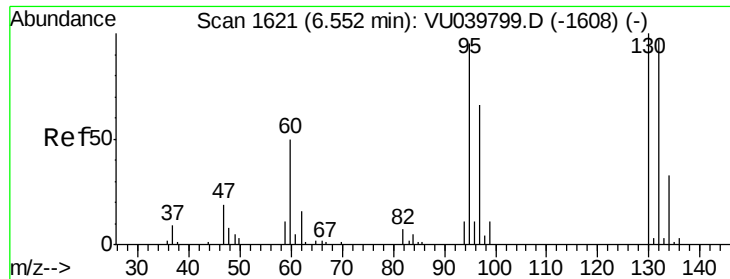
Tot Ion: 83 Resp: 2416
Ion Ratio Lower Upper
83 100
85 44.8 42.1 78.3



#33
Benzene
Concen: 0.376 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VU039803.D
Acq: 08 Aug 2020 11:44

Tgt Ion: 78 Resp: 6746

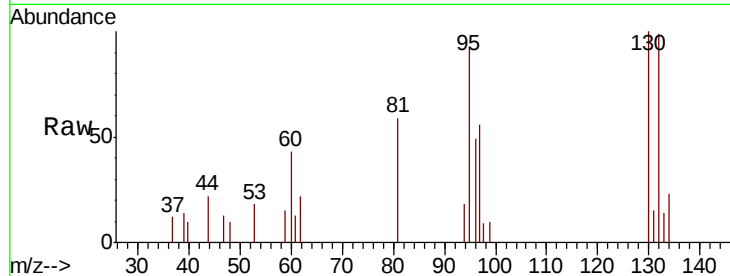




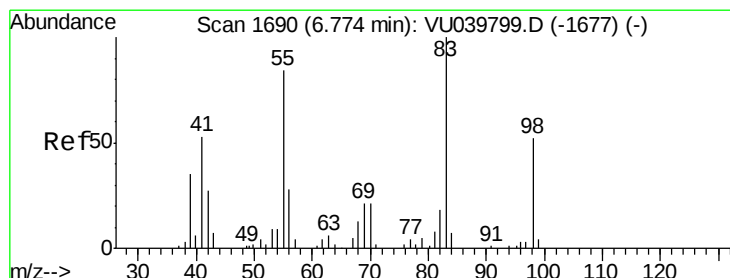
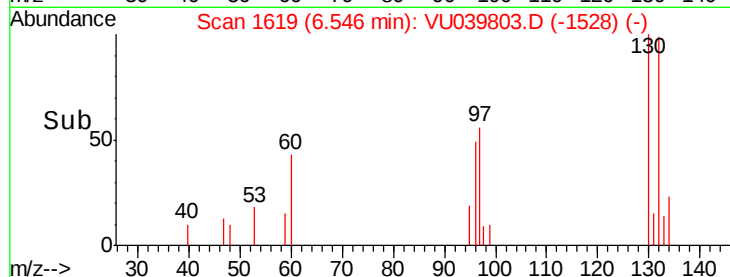
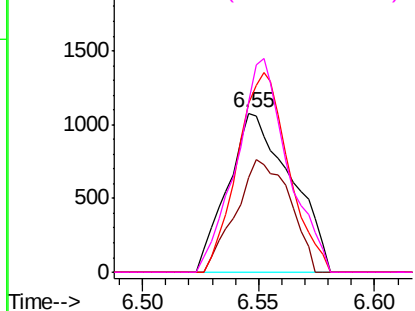
#34
 Trichloroethene
 Concen: 0.437 ug/L
 RT: 6.55 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: VU039803.D
 Acq: 08 Aug 2020 11:44

Instrument :
 MSVOA_U
 ClientSampleID :

Tot Ion: 95 Resp: 2035
 Ion Ratio Lower Upper
 95 100
 97 59.6 44.0 81.8
 132 106.5 71.7 133.3
 130 107.3 71.1 132.1

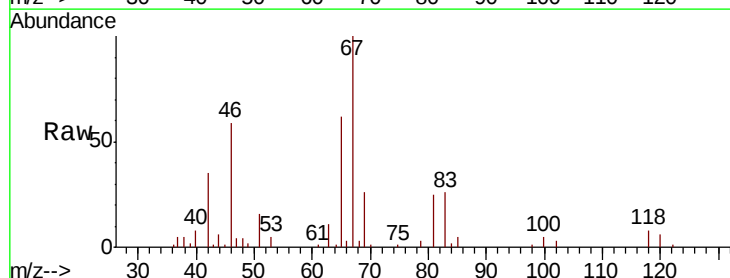


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

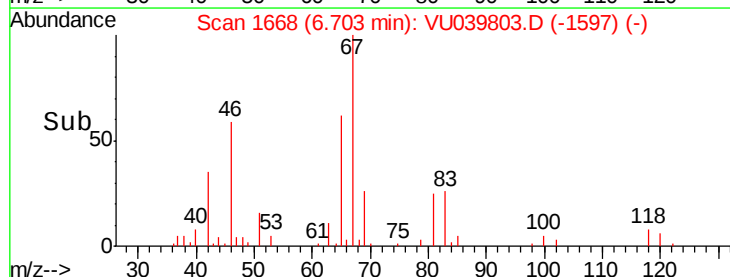
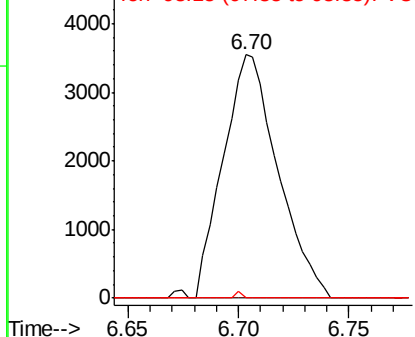


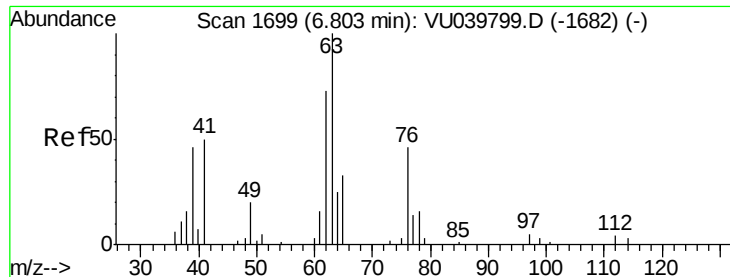
#35
 Methylcyclohexane
 Concen: 0.821 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU039803.D
 Acq: 08 Aug 2020 11:44

Tgt Ion: 83 Resp: 6104
 Ion Ratio Lower Upper
 83 100
 55 13.2 59.4 89.0#
 98 0.3 39.0 58.4#



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

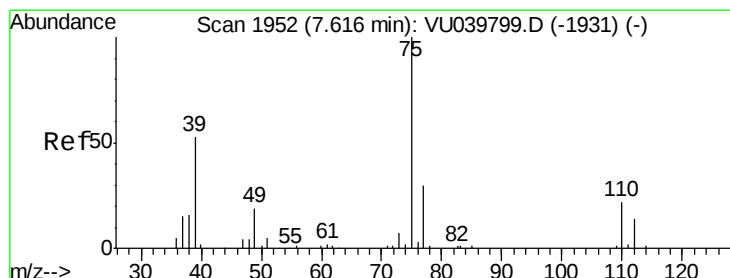
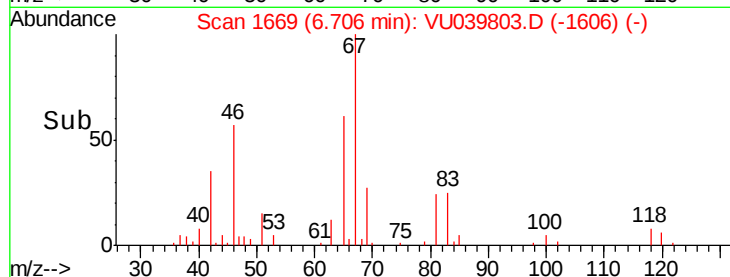
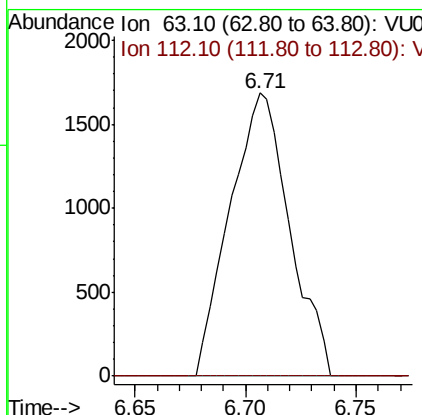
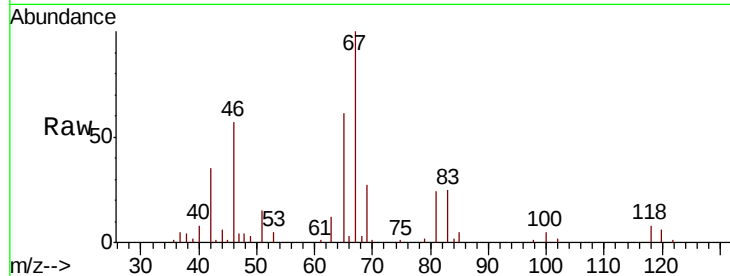




#37
 1,2-Dichloropropane
 Concen: 0.663 ug/L
 RT: 6.71 min Scan# 1669
 Delta R.T. -0.10 min
 Lab File: VU039803.D
 Acq: 08 Aug 2020 11:44

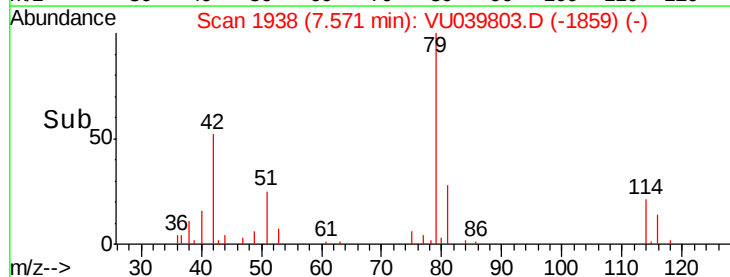
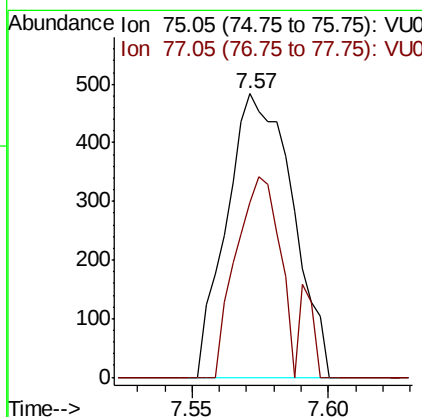
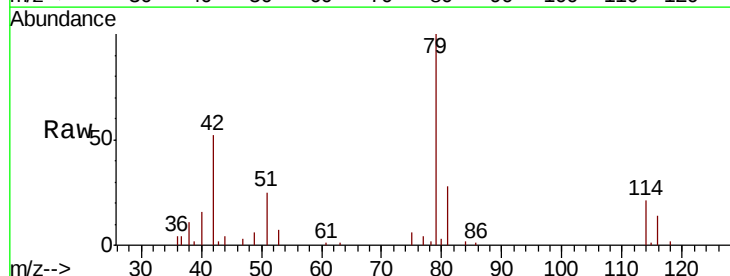
Instrument :
 MSVOA_U
 ClientSampleId :

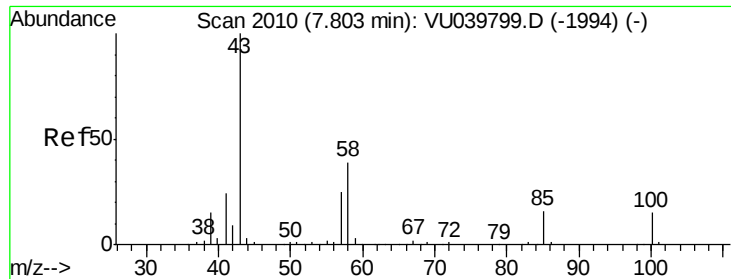
Tot Ion: 63 Resp: 3158
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.6#



#39
 cis-1,3-Dichloropropene
 Concen: 0.125 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.05 min
 Lab File: VU039803.D
 Acq: 08 Aug 2020 11:44

Tgt Ion: 75 Resp: 810
 Ion Ratio Lower Upper
 75 100
 77 61.7 22.4 41.6#

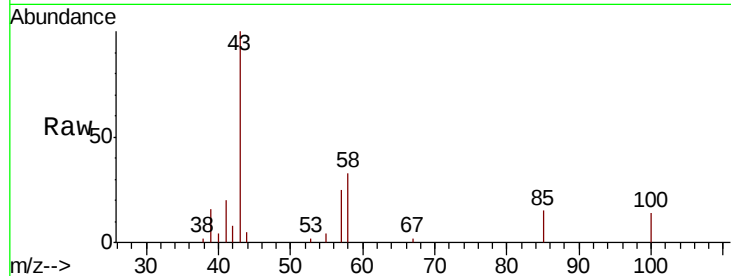




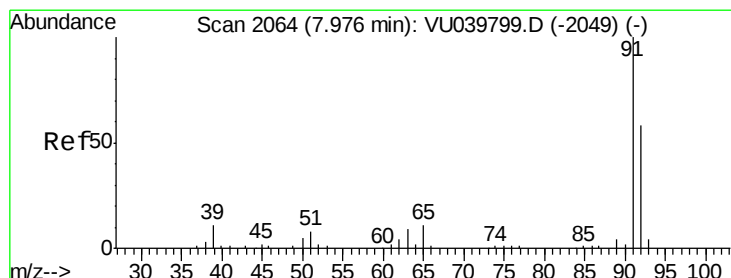
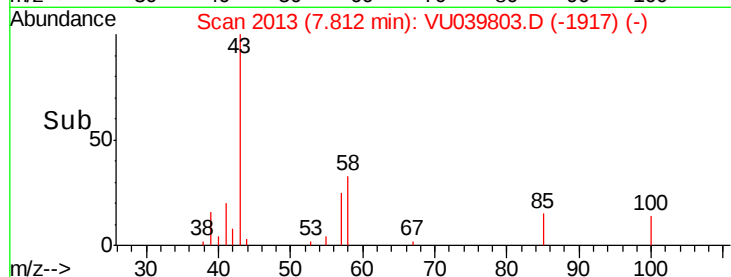
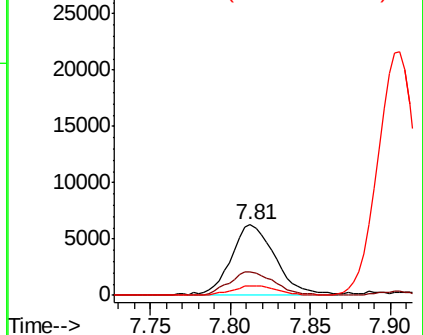
#40
4-Methyl-2-pentanone
Concen: 3.336 ug/L
RT: 7.81 min Scan# 2013
Delta R.T. 0.01 min
Lab File: VU039803.D
Acq: 08 Aug 2020 11:44

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 11884
Ion Ratio Lower Upper
43 100
58 33.8 29.4 44.2
100 13.4 11.7 17.5

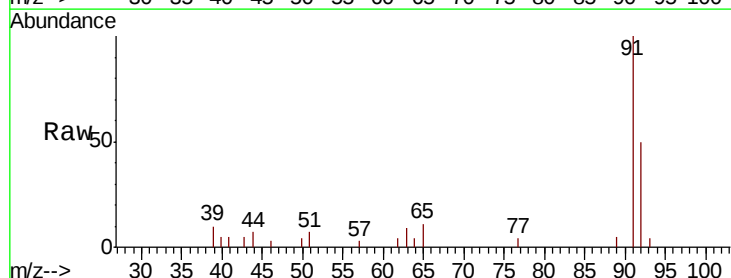


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 100.15 (99.85 to 100.85): VU0

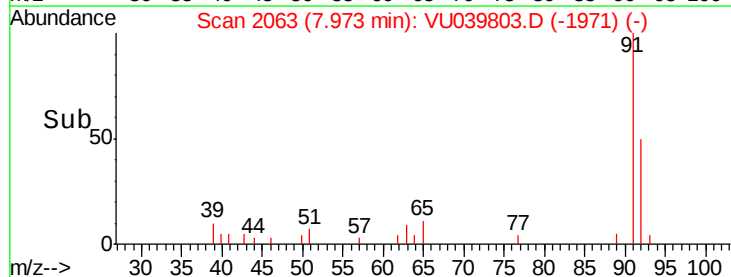
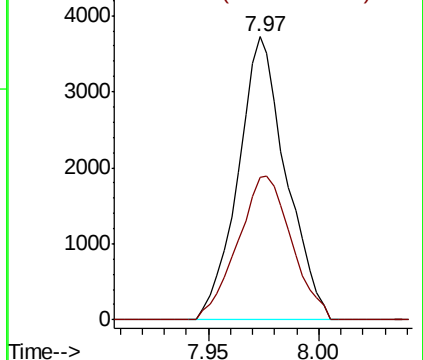


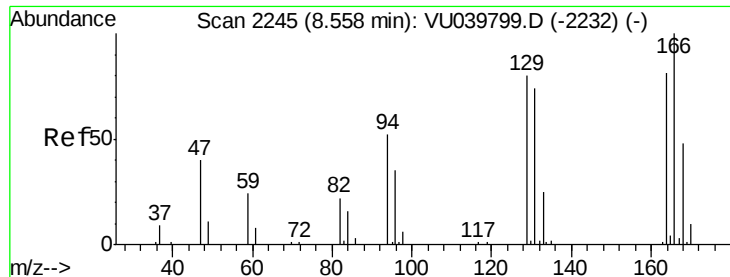
#42
Toluene
Concen: 0.297 ug/L
RT: 7.97 min Scan# 2063
Delta R.T. -0.00 min
Lab File: VU039803.D
Acq: 08 Aug 2020 11:44

Tgt Ion: 91 Resp: 5609
Ion Ratio Lower Upper
91 100
92 50.4 41.6 77.3



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0





#47

Tetrachloroethene

Concen: 0.164 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 630

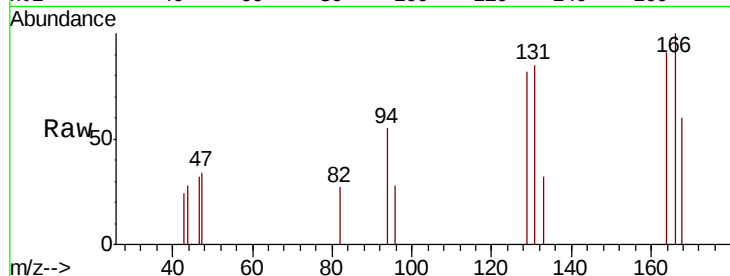
Ion Ratio Lower Upper

164 100

129 90.5 65.9 122.5

131 94.1 68.1 126.5

166 110.2 84.5 156.9

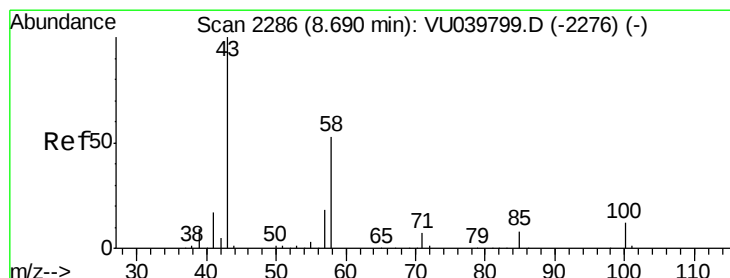
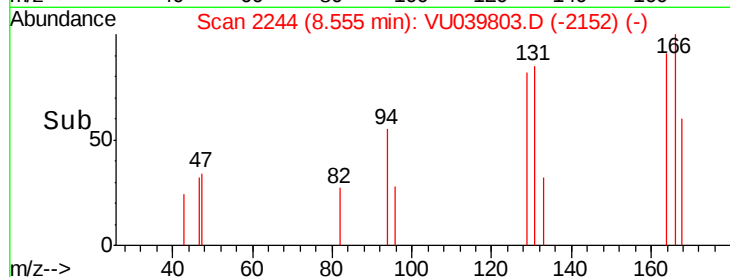
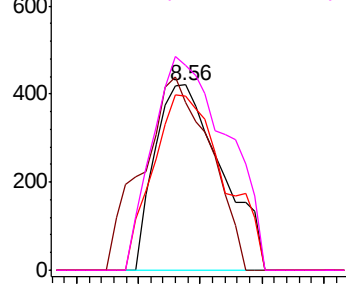


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.933 ug/L

RT: 8.70 min Scan# 2288

Delta R.T. 0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Tgt Ion: 43 Resp: 2400

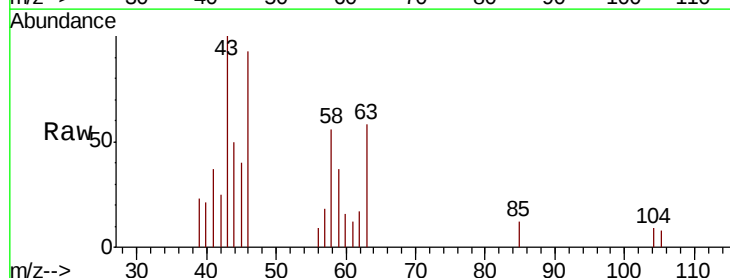
Ion Ratio Lower Upper

43 100

58 46.9 41.8 62.8

57 19.2 14.2 21.4

100 3.5 9.4 14.2#

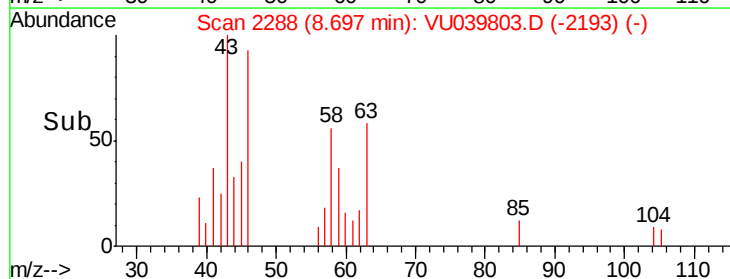
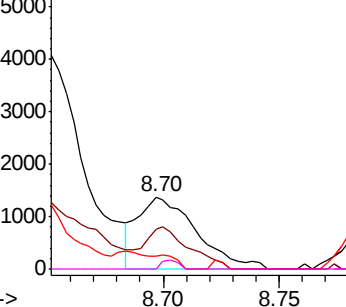


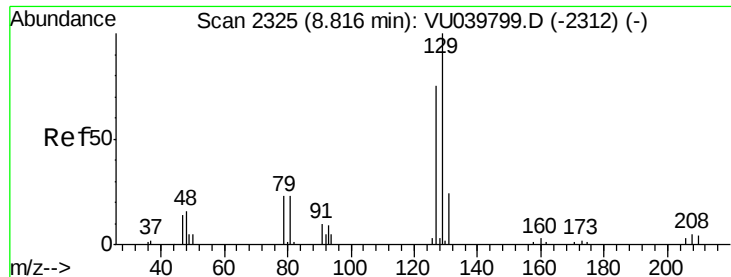
Abundance Ion 43.05 (42.75 to 43.75): VU0

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

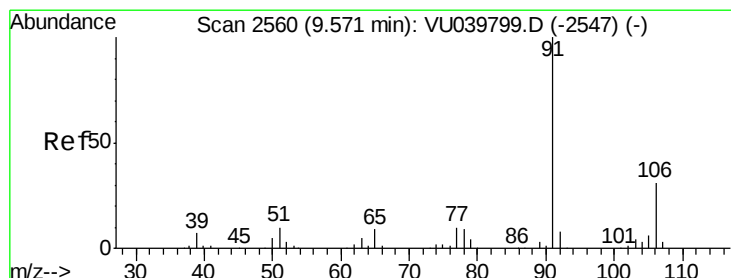
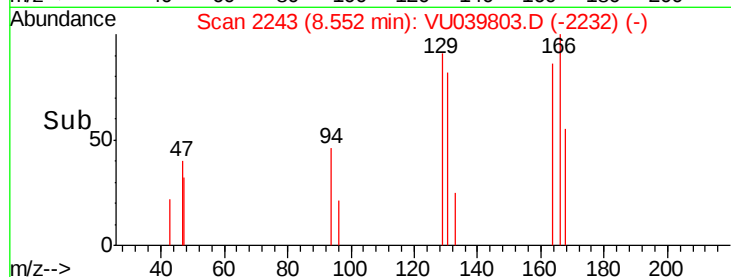
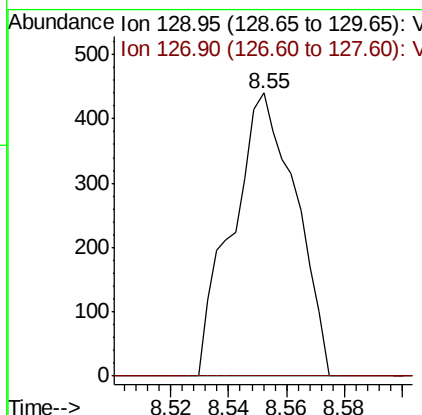
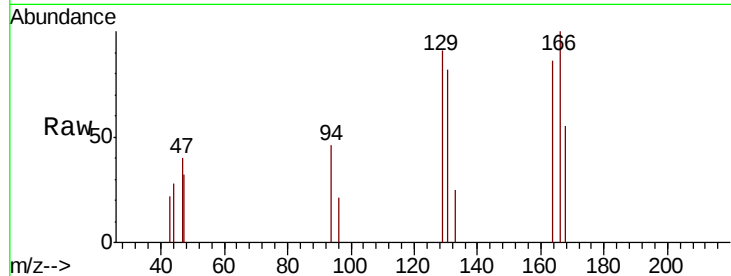




#49
Dibromochloromethane
Concen: 0.152 ug/L
RT: 8.55 min Scan# 2243
Delta R.T. -0.26 min
Lab File: VU039803.D
Acq: 08 Aug 2020 11:44

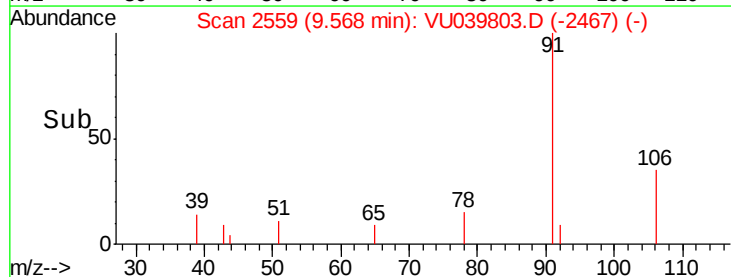
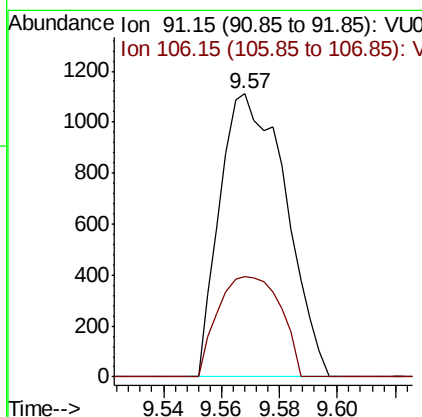
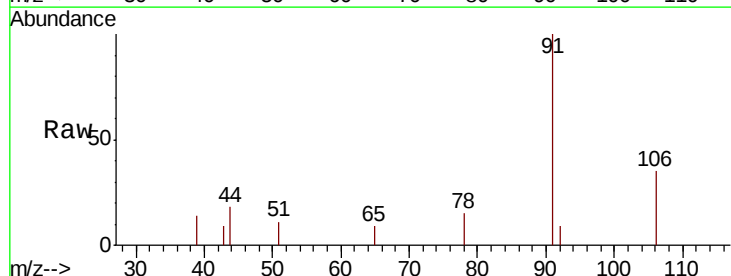
Instrument :
MSVOA_U
ClientSampled :

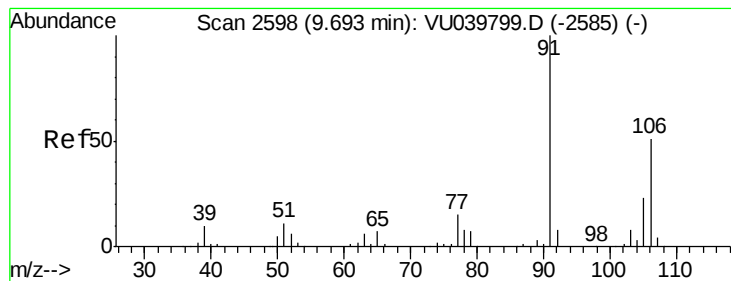
Tot Ion:129 Resp: 670
Ion Ratio Lower Upper
129 100
127 0.0 53.0 98.4#



#52
Ethylbenzene
Concen: 0.083 ug/L
RT: 9.57 min Scan# 2559
Delta R.T. -0.00 min
Lab File: VU039803.D
Acq: 08 Aug 2020 11:44

Tgt Ion: 91 Resp: 1749
Ion Ratio Lower Upper
91 100
106 35.4 22.8 42.4





#53

m,p-Xylene

Concen: 0.254 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA_U

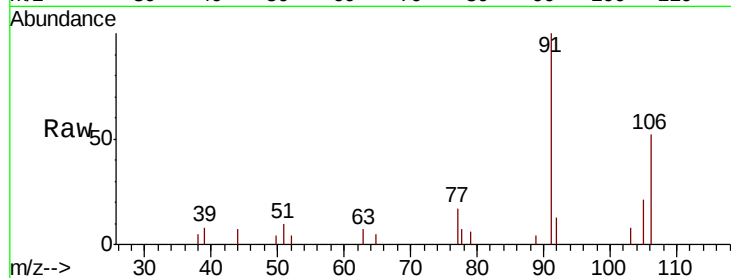
ClientSampled :

Tot Ion:106 Resp: 2042

Ion Ratio Lower Upper

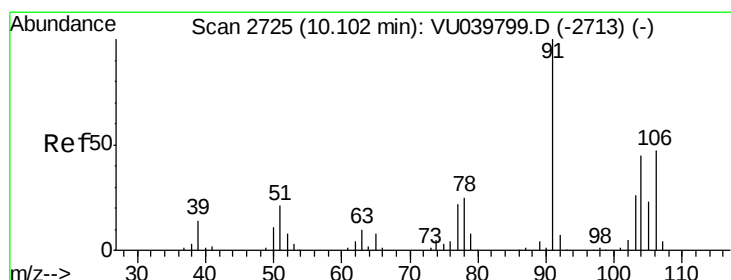
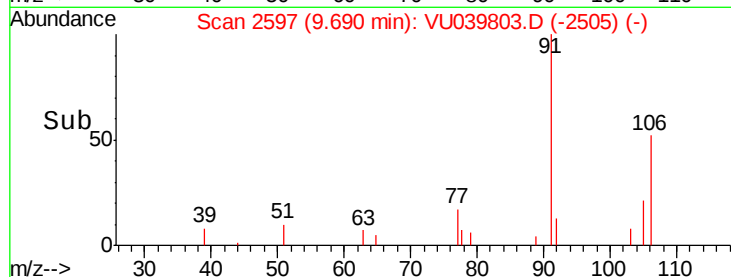
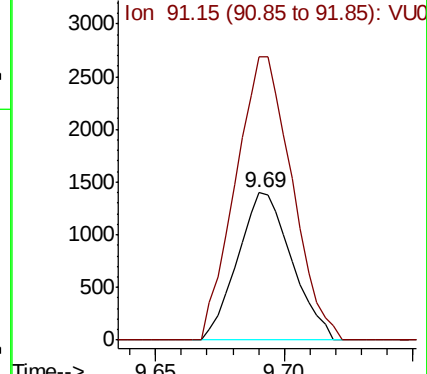
106 100

91 191.6 135.5 251.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.090 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039803.D

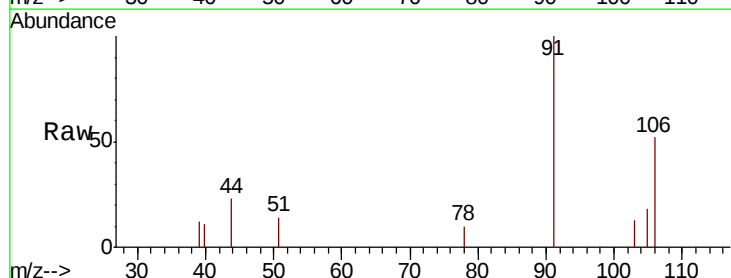
Acq: 08 Aug 2020 11:44

Tgt Ion:106 Resp: 708

Ion Ratio Lower Upper

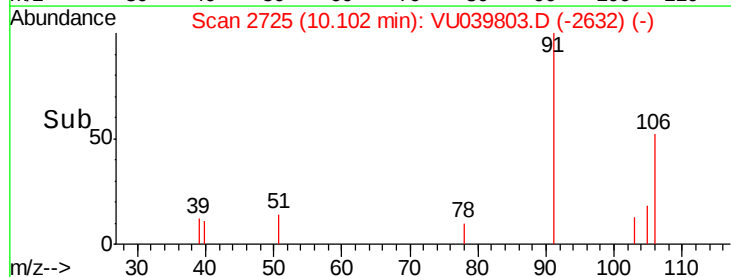
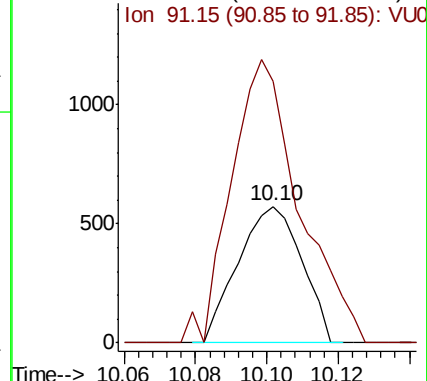
106 100

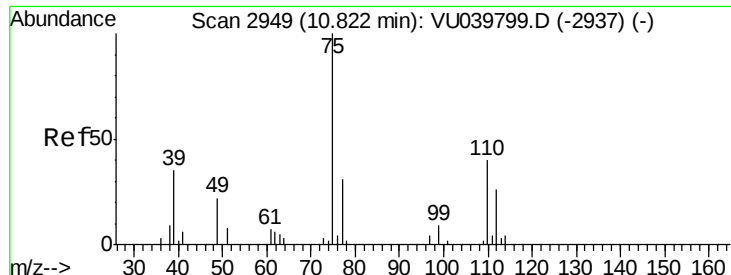
91 191.8 140.8 261.6



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: 1.363 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 4688

Ion Ratio Lower Upper

75 100

77 39.1 24.6 37.0#

