

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028292.D
 Acq On : 20 Nov 2018 20:56
 Operator : MD/SY
 Sample : J5997-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 07:12:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 21 07:07:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	133841	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	128424	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	56377	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	36772	3.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.00%
7) Chloroethane-d5	1.68	69	34709	3.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.80%
11) 1,1-Dichloroethene-d2	2.28	63	54928	2.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	54.80%#
20) 2-Butanone-d5	4.19	46	183696	54.50	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.00%
24) Chloroform-d	4.65	84	82177	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.40%
26) 1,2-Dichloroethane-d4	5.31	65	46206	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.00%
32) Benzene-d6	5.34	84	151274	4.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.80%
36) 1,2-Dichloropropane-d6	6.33	67	61110	4.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.00%
41) Toluene-d8	7.57	98	117654	3.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.20%
43) trans-1,3-Dichloropropene-	7.85	79	17054	3.98	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.60%
46) 2-Hexanone-d5	8.31	63	127333	49.52	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.04%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	50076	5.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	49849	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.31	85	1112	0.099	ug/L 99
9) Trichlorofluoromethane	1.89	101	1494	0.094	ug/L # 81
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	412	0.047	ug/L # 21
12) 1,1-Dichloroethene	2.29	96	4474	0.543	ug/L # 1
13) Acetone	2.32	43	17967	7.751	ug/L 95
15) Methyl Acetate	2.45	43	5736	0.934	ug/L # 59
18) trans-1,2-Dichloroethene	2.98	96	861	0.098	ug/L 98
19) 1,1-Dichloroethane	3.45	63	76455	3.756	ug/L 99
22) cis-1,2-Dichloroethene	4.22	96	8844	0.852	ug/L 90
25) Chloroform	4.67	83	6975	0.317	ug/L 82
29) 1,1,1-Trichloroethane	4.92	97	50277	3.473	ug/L 99
31) Carbon tetrachloride	4.91	117	6819	0.574	ug/L 99
34) Trichloroethene	6.19	95	14312	1.380	ug/L 95
35) Methylcyclohexane	6.33	83	11984	0.733	ug/L # 15
37) 1,2-Dichloropropane	6.33	63	5865	0.485	ug/L # 92
38) Bromodichloromethane	6.76	83	1538	0.117	ug/L # 95
39) cis-1,3-Dichloropropene	7.23	75	1271	0.083	ug/L 86

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 21 07:07:52 2018
Response via : Initial Calibration

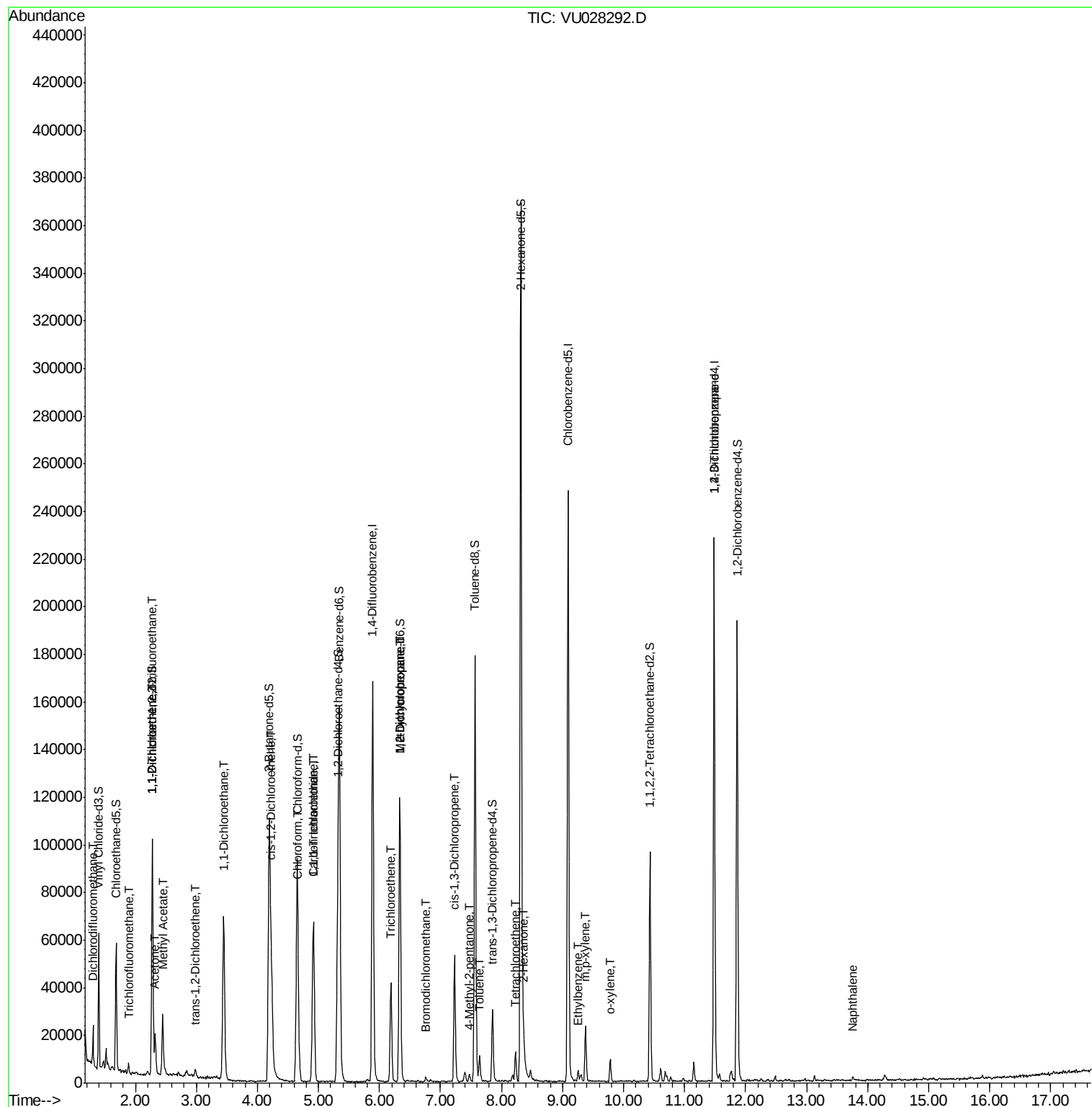
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.47	43	2656	0.307	ug/L #	83
42) Toluene	7.64	91	7255	0.169	ug/L	98
47) Tetrachloroethene	8.23	164	2747	0.381	ug/L	90
48) 2-Hexanone	8.37	43	3543	0.575	ug/L #	88
52) Ethylbenzene	9.25	91	3606	0.078	ug/L	89
53) m,p-xylene	9.37	106	6737	0.420	ug/L	99
54) o-xylene	9.78	106	2539	0.159	ug/L	74
59) 1,2,3-Trichloropropane	11.48	75	8586	1.229	ug/L	98
69) Naphthalene	13.76	128	1908	0.098	ug/L #	77

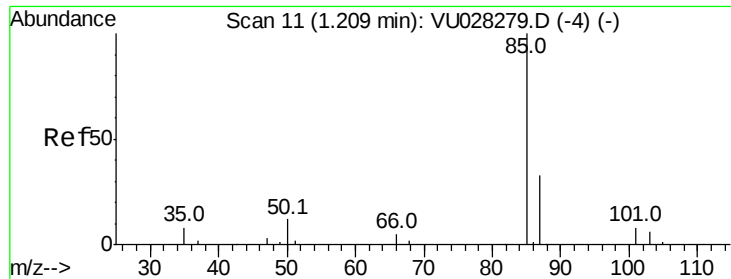
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.099 ug/L

RT: 1.31 min Scan# 41

Delta R.T. 0.10 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

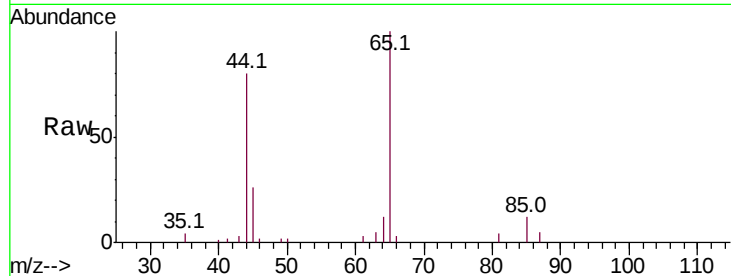
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 1112

Ion Ratio Lower Upper

85 100

87 31.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU028279.D (-4) (-)

Ion 87.00 (86.70 to 87.70): VU028279.D (-4) (-)

1200

1000

800

600

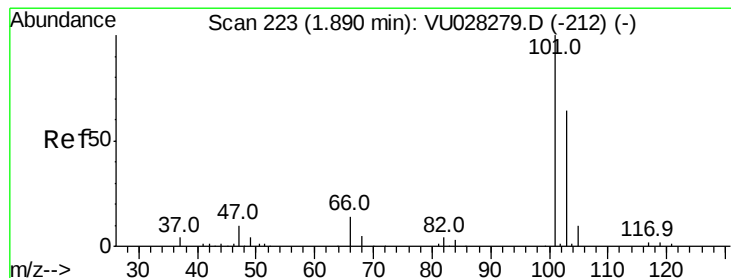
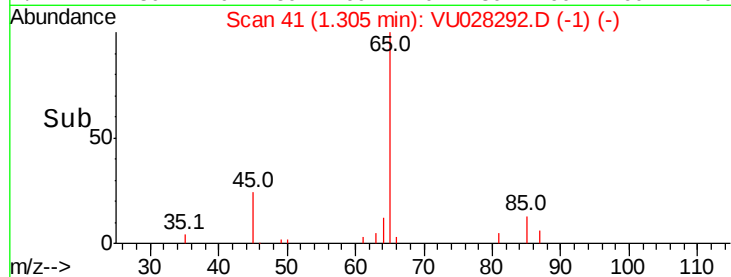
400

200

0

1.28 1.30 1.32 1.34

Time-->



#9

Trichlorofluoromethane

Concen: 0.094 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU028292.D

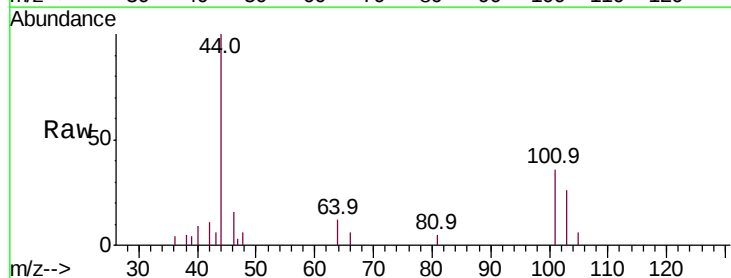
Acq: 20 Nov 2018 20:56

Tgt Ion:101 Resp: 1494

Ion Ratio Lower Upper

101 100

103 79.5 51.7 77.5#



Abundance Ion 101.00 (100.70 to 101.70): VU028279.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU028279.D (-212) (-)

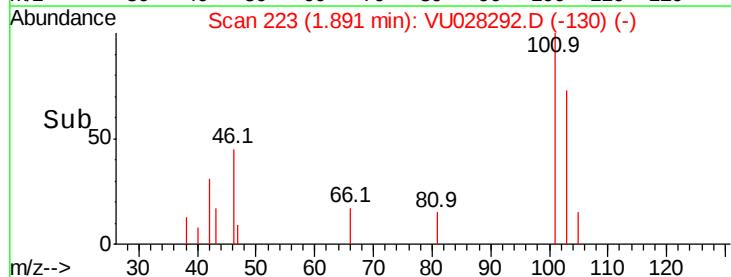
1000

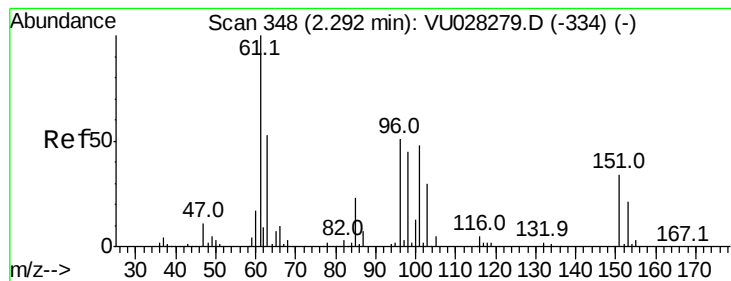
500

0

1.86 1.88 1.90 1.92

Time-->





#10

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

Concen: 0.047 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

Instrument :

MSVOA_U

ClientSampled :

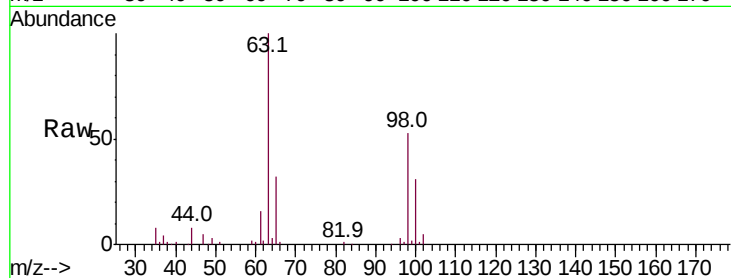
Tot Ion:101 Resp: 412

Ion Ratio Lower Upper

101 100

85 0.0 37.4 56.2#

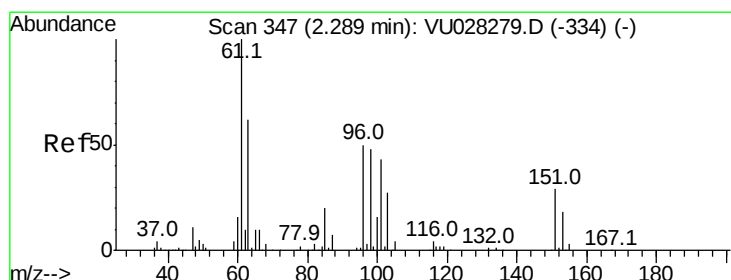
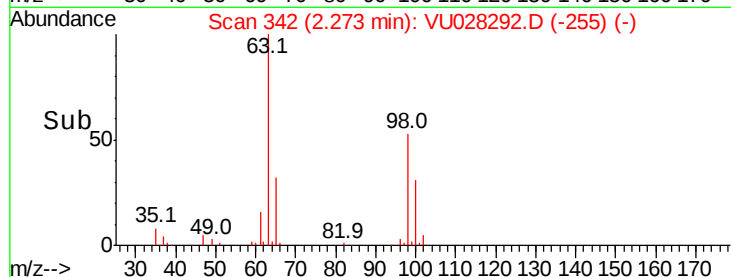
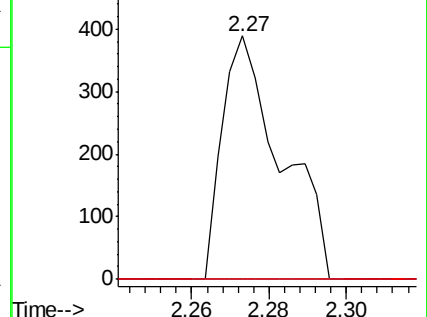
151 0.0 55.0 82.4#



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: 0.543 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

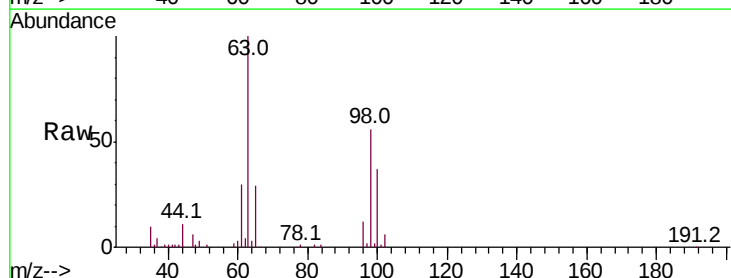
Tgt Ion: 96 Resp: 4474

Ion Ratio Lower Upper

96 100

61 256.2 145.5 270.1

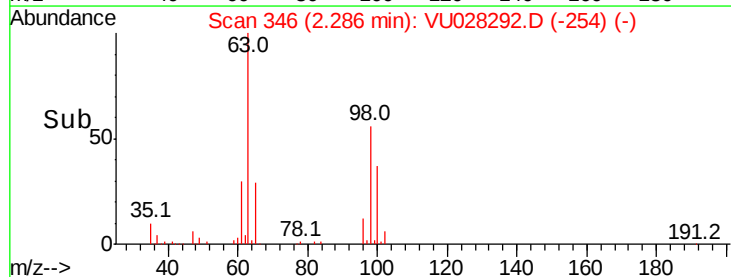
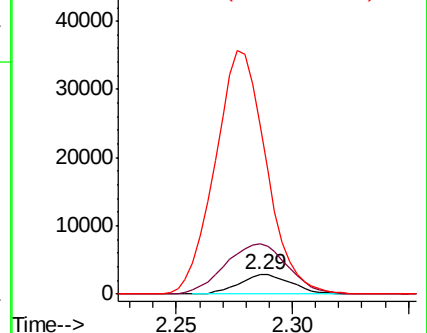
63 862.7 98.6 183.2#

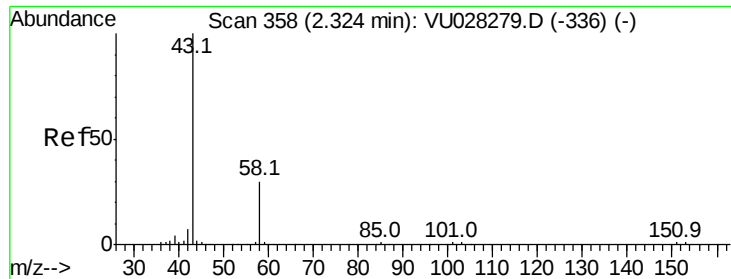


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 7.751 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

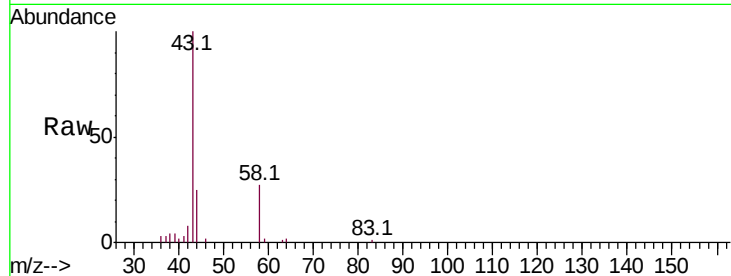
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 17967

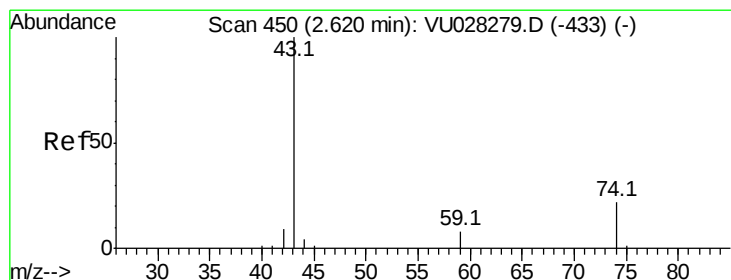
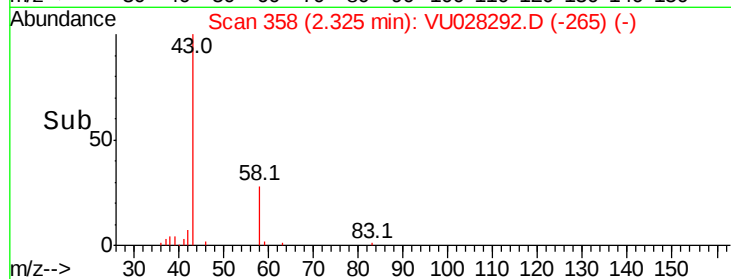
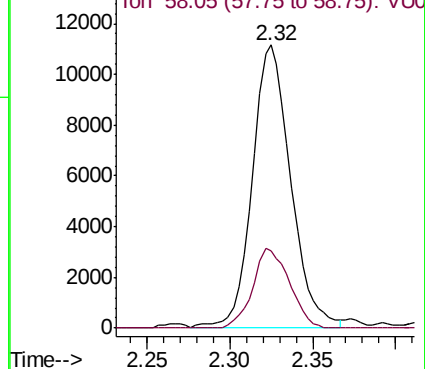
Ion Ratio Lower Upper

43 100

58 26.8 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU028279.D (-336) (-)



#15

Methyl Acetate

Concen: 0.934 ug/L

RT: 2.45 min Scan# 397

Delta R.T. -0.17 min

Lab File: VU028292.D

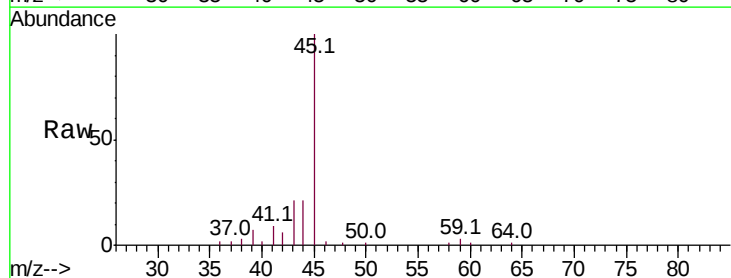
Acq: 20 Nov 2018 20:56

Tgt Ion: 43 Resp: 5736

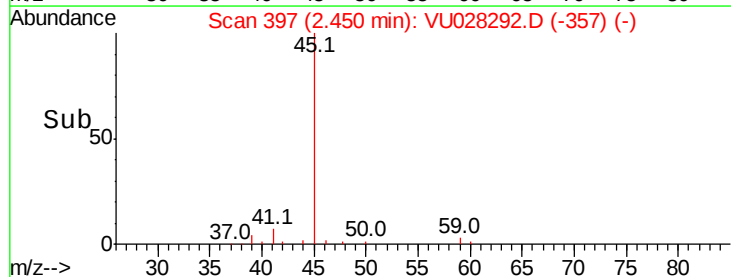
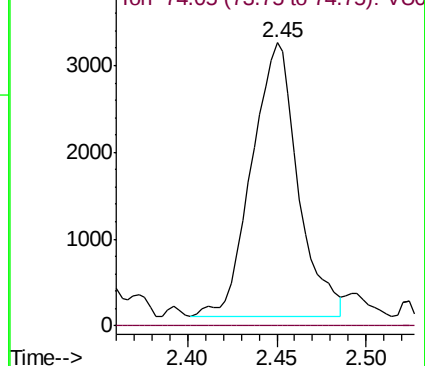
Ion Ratio Lower Upper

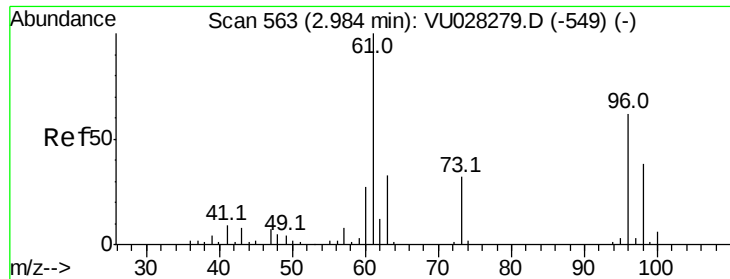
43 100

74 0.0 14.7 22.1#



Abundance Ion 43.05 (42.75 to 43.75): VU028279.D (-433) (-)

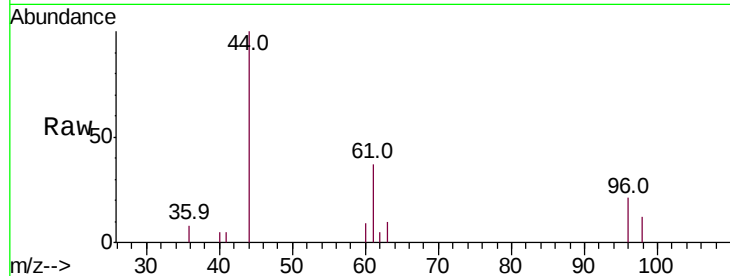




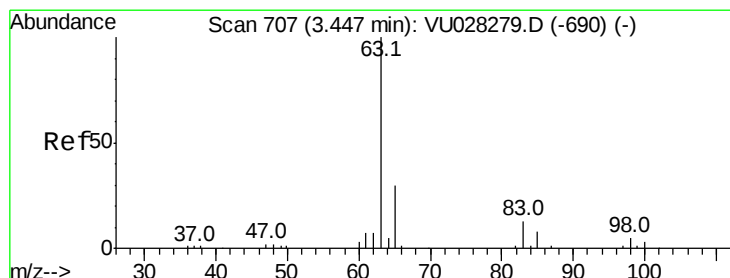
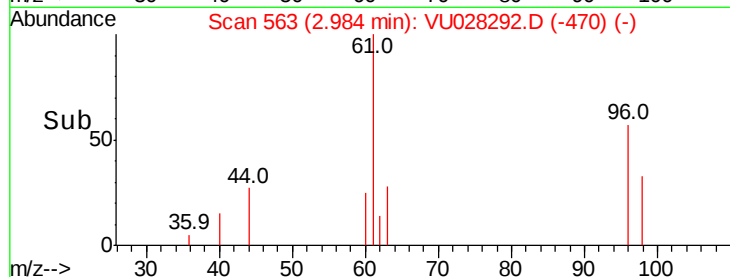
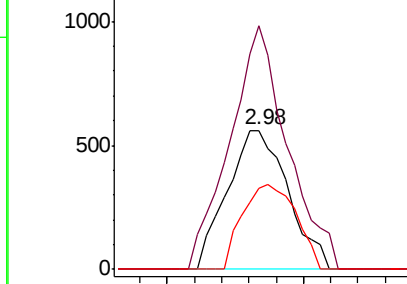
#18
trans-1,2-Dichloroethene
Concen: 0.098 ug/L
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU028292.D
Acq: 20 Nov 2018 20:56

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 861
Ion Ratio Lower Upper
96 100
61 175.0 122.2 227.0
98 58.5 44.9 83.5

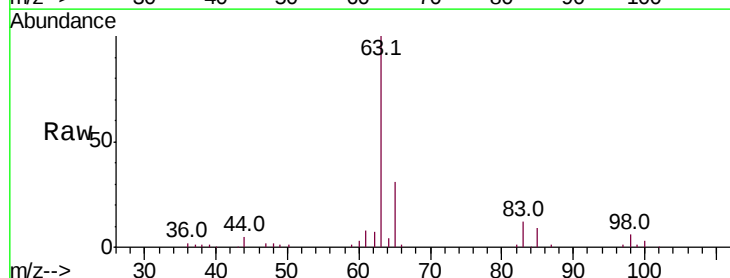


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

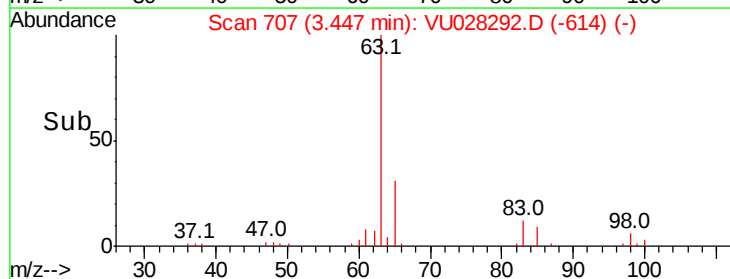
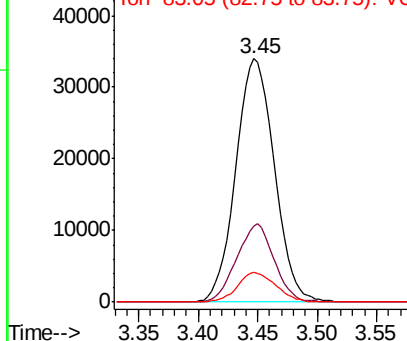


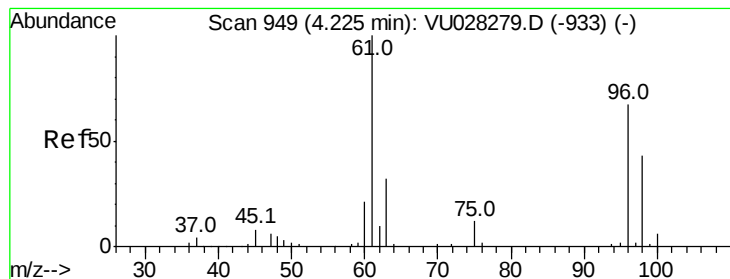
#19
1,1-Dichloroethane
Concen: 3.756 ug/L
RT: 3.45 min Scan# 707
Delta R.T. 0.00 min
Lab File: VU028292.D
Acq: 20 Nov 2018 20:56

Tgt Ion: 63 Resp: 76455
Ion Ratio Lower Upper
63 100
65 31.1 21.2 39.4
83 12.4 8.8 16.4



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0



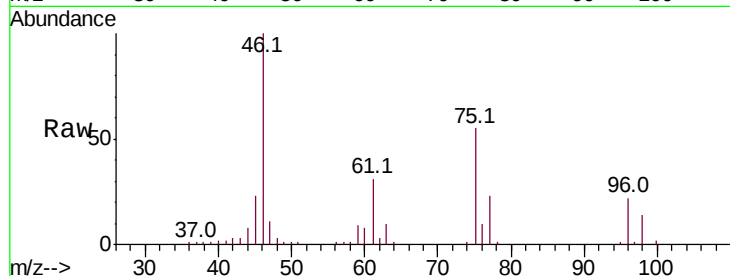


#22

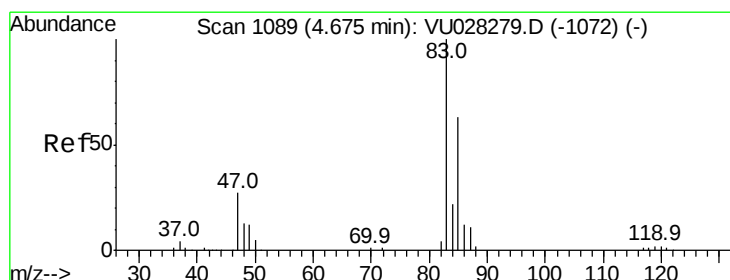
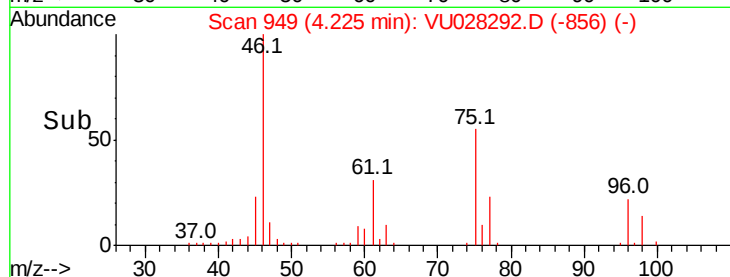
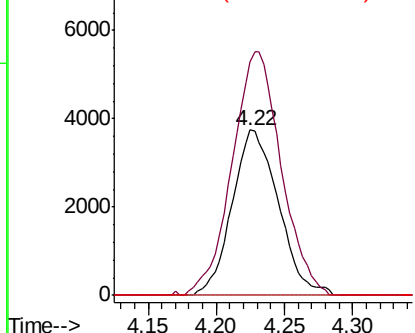
cis-1,2-Dichloroethene
 Concen: 0.852 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 8844
 Ion Ratio Lower Upper
 96 100
 61 141.1 108.0 200.6
 68 0.0 0.0 0.0



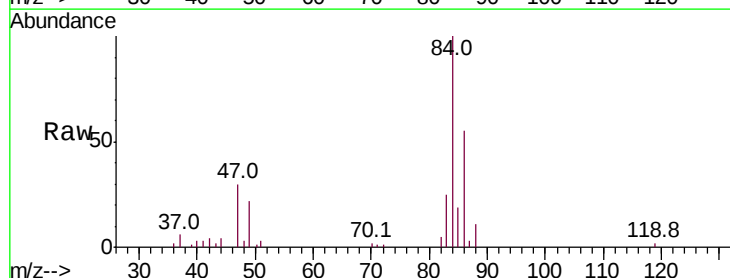
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



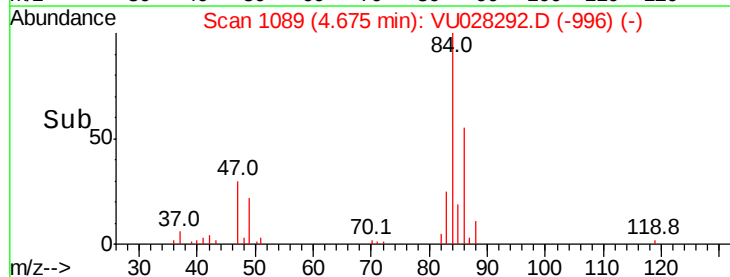
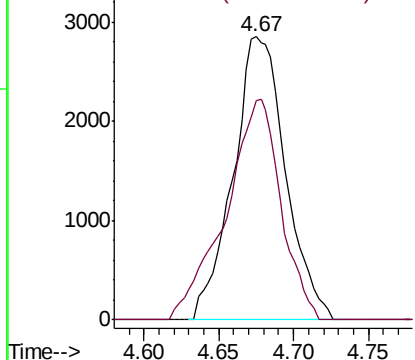
#25

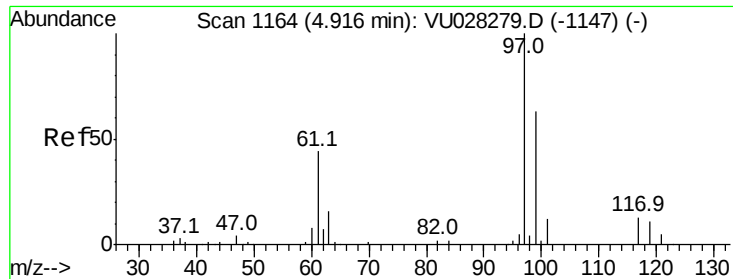
Chloroform
 Concen: 0.317 ug/L
 RT: 4.67 min Scan# 1089
 Delta R.T. 0.00 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Tgt Ion: 83 Resp: 6975
 Ion Ratio Lower Upper
 83 100
 85 77.6 44.6 82.8



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



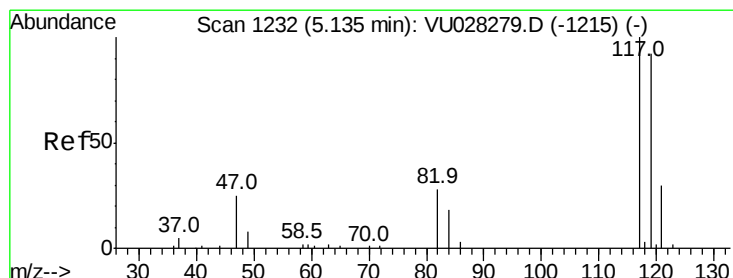
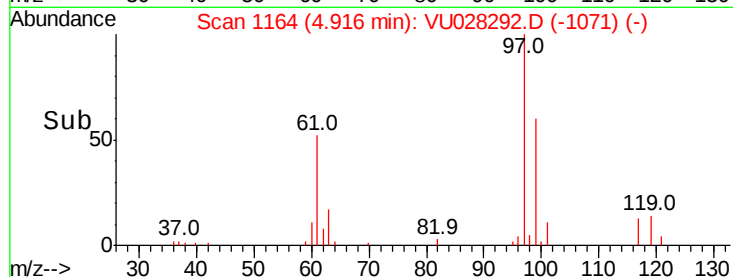
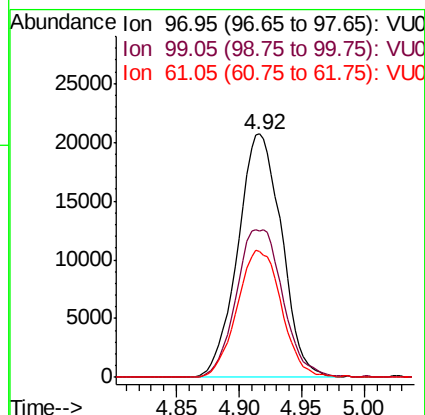
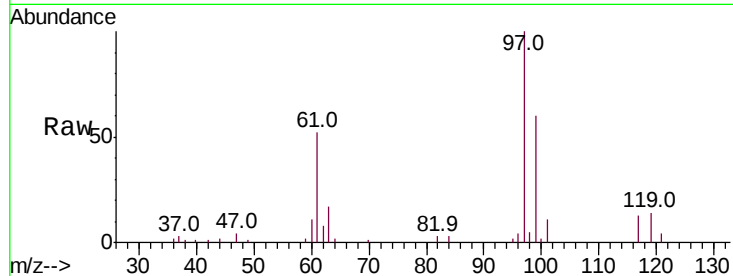


#29
 1,1,1-Trichloroethane
 Concen: 3.473 ug/L
 RT: 4.92 min Scan# 1164
 Delta R.T. 0.00 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 50277

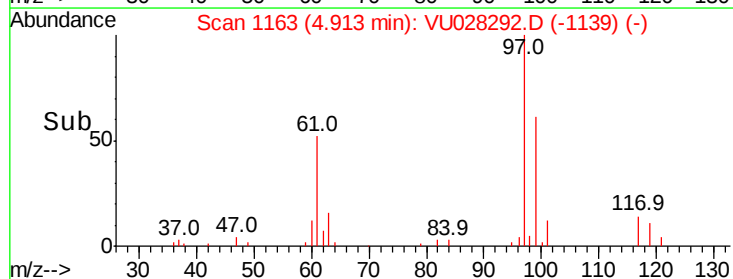
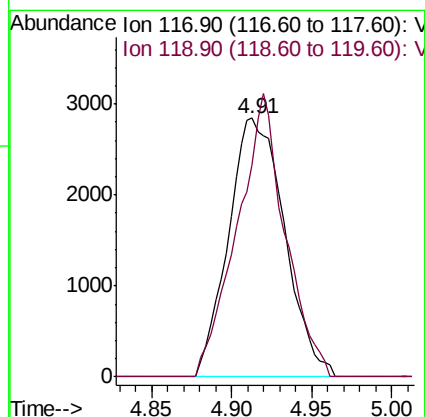
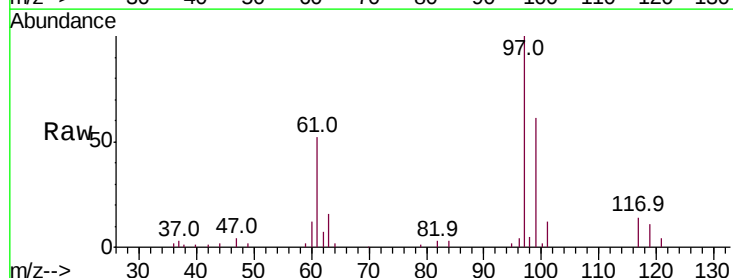
Ion	Ratio	Lower	Upper
97	100		
99	64.6	50.8	76.2
61	52.8	42.6	64.0

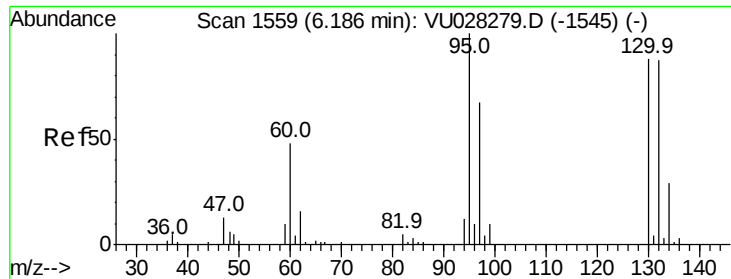


#31
 Carbon tetrachloride
 Concen: 0.574 ug/L
 RT: 4.91 min Scan# 1163
 Delta R.T. -0.22 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Tgt Ion: 117 Resp: 6819

Ion	Ratio	Lower	Upper
117	100		
119	93.5	75.6	113.4





#34

Trichloroethene

Concen: 1.380 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 14312

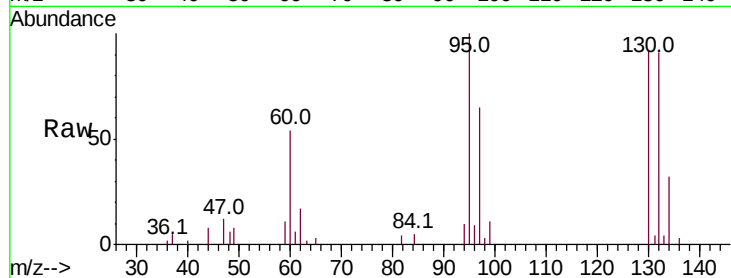
Ion Ratio Lower Upper

95 100

97 64.5 46.5 86.3

132 90.9 58.9 109.3

130 91.7 61.3 113.9

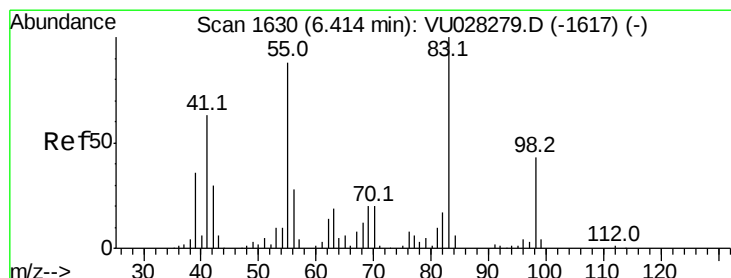
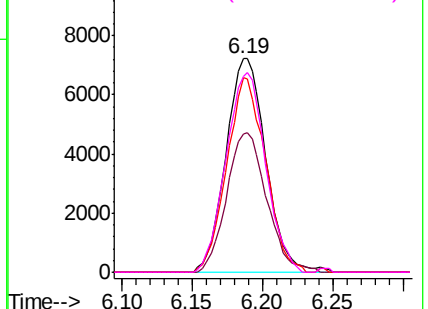
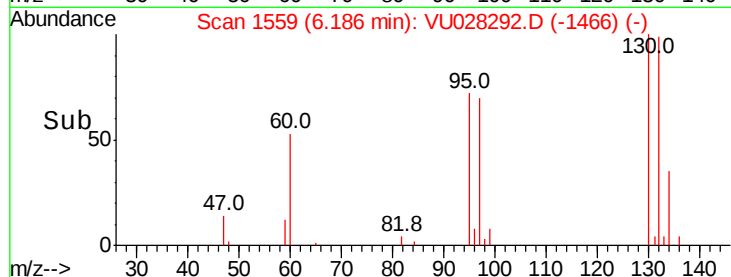


Abundance Ion 95.00 (94.70 to 95.70): VU0

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

Methylcyclohexane

Concen: 0.733 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

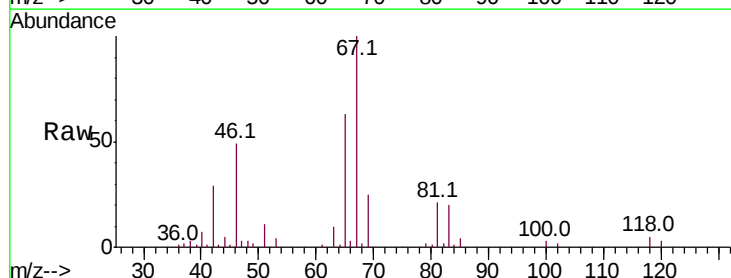
Tgt Ion: 83 Resp: 11984

Ion Ratio Lower Upper

83 100

55 0.2 73.2 109.8#

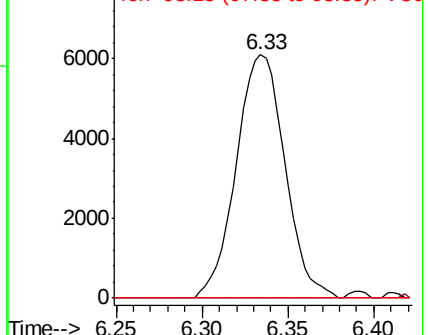
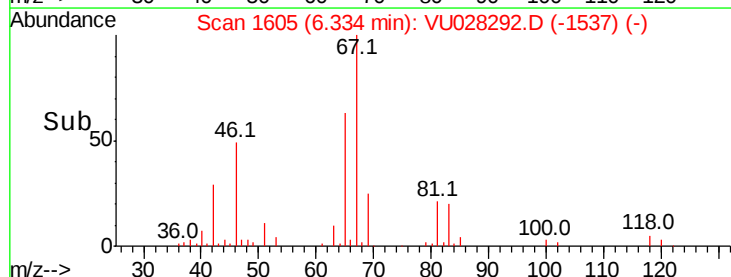
98 4.1 33.4 50.2#

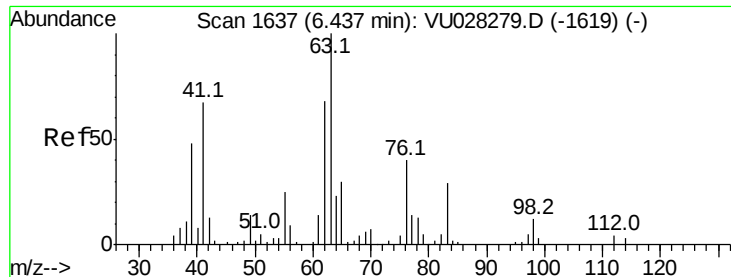


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.485 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

Instrument :

MSVOA_U

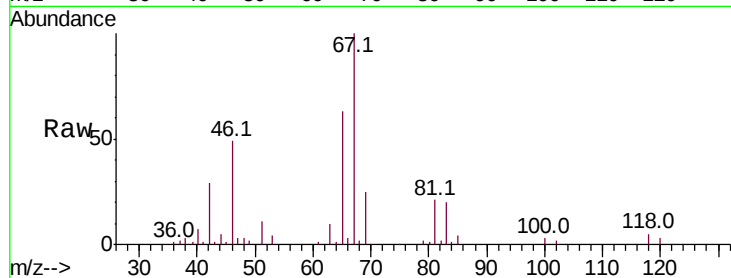
ClientSampled :

Tot Ion: 63 Resp: 5865

Ion Ratio Lower Upper

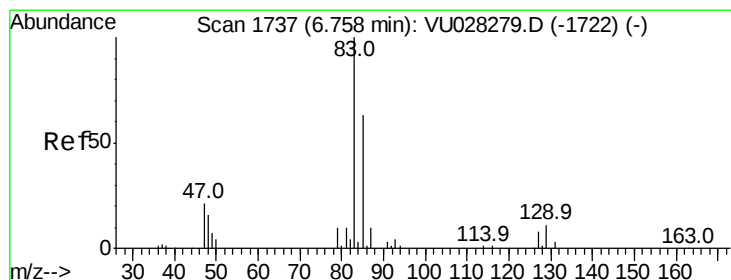
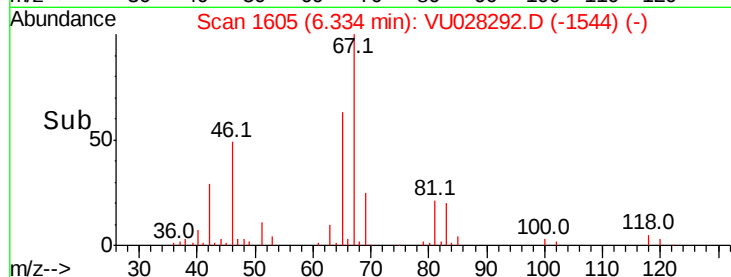
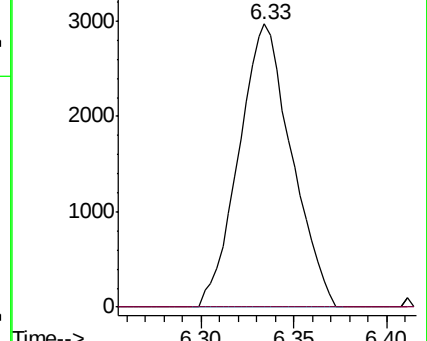
63 100

112 0.0 2.2 3.2#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 0.117 ug/L

RT: 6.76 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

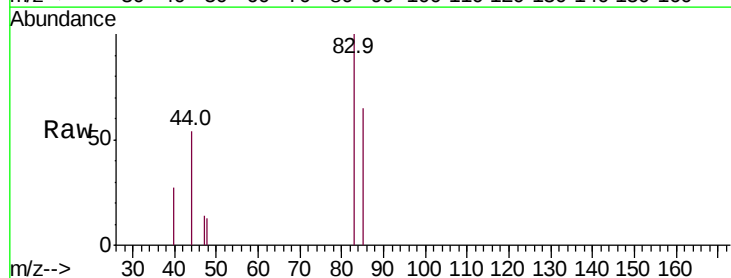
Tgt Ion: 83 Resp: 1538

Ion Ratio Lower Upper

83 100

85 65.0 44.2 82.0

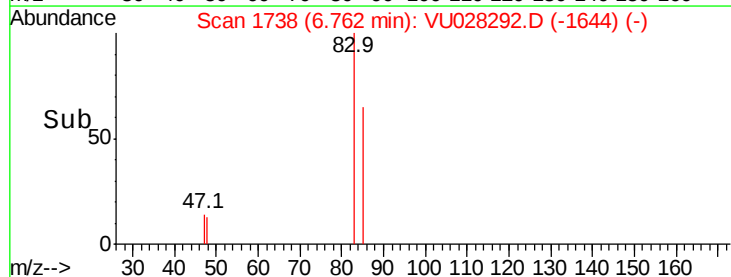
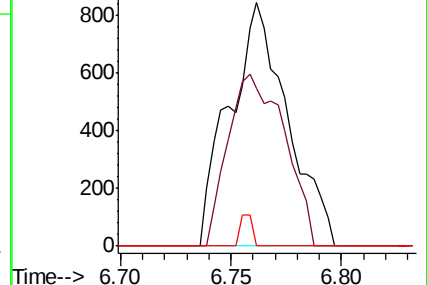
127 0.0 6.2 9.4#

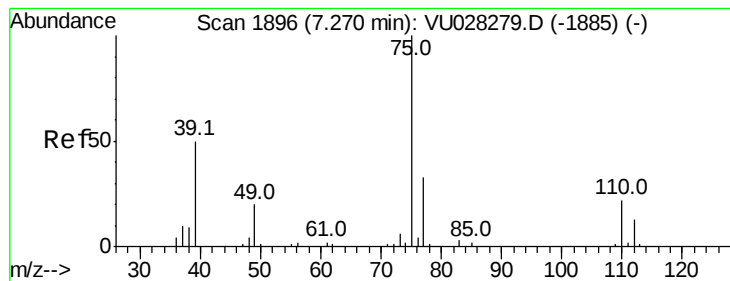


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V



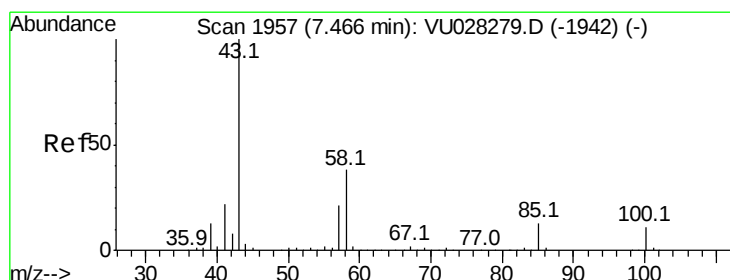
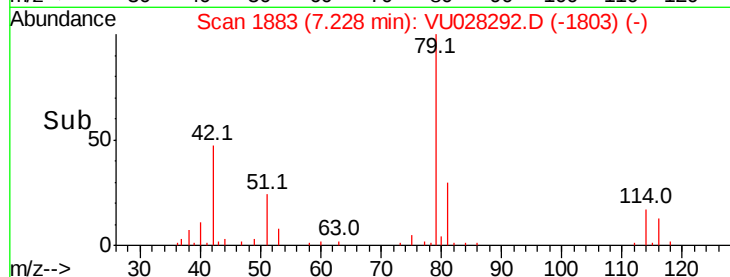
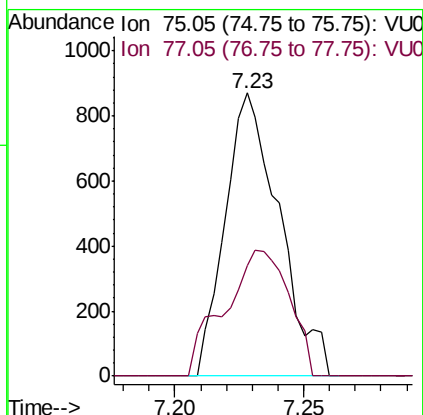
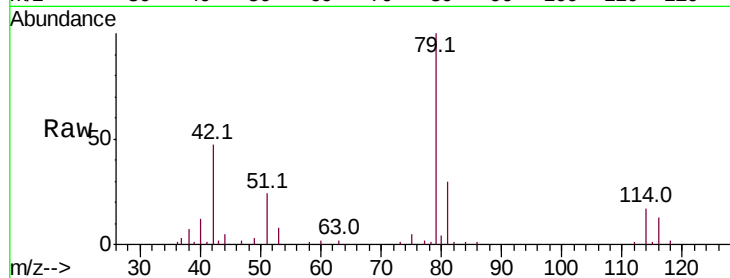


#39

cis-1,3-Dichloropropene
 Concen: 0.083 ug/L
 RT: 7.23 min Scan# 1883
 Delta R.T. -0.04 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Instrument :
 MSVOA_U
 ClientSampleId :

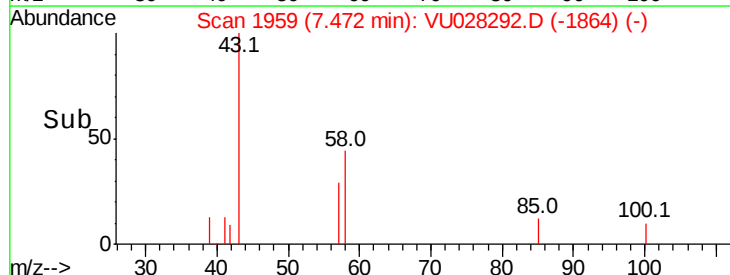
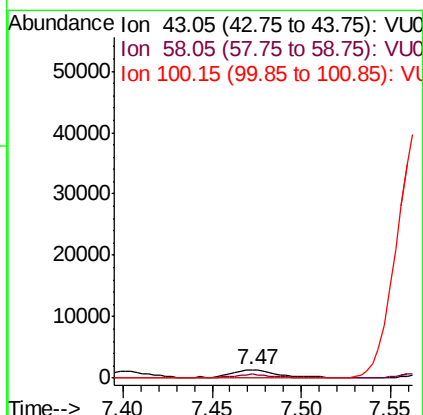
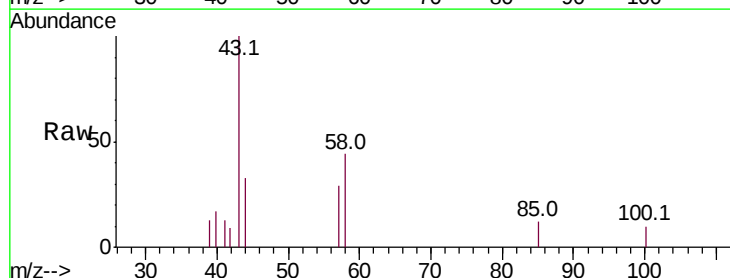
Tot Ion: 75 Resp: 1271
 Ion Ratio Lower Upper
 75 100
 77 39.0 21.7 40.3

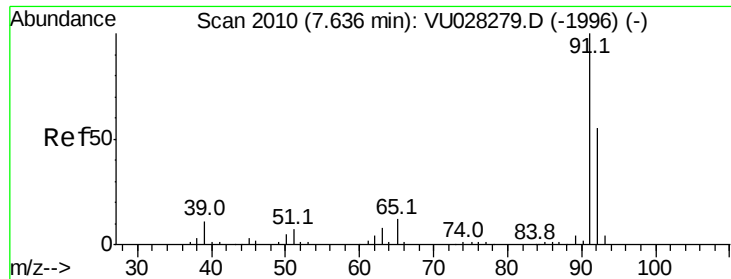


#40

4-Methyl-2-pentanone
 Concen: 0.307 ug/L
 RT: 7.47 min Scan# 1959
 Delta R.T. 0.01 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Tgt Ion: 43 Resp: 2656
 Ion Ratio Lower Upper
 43 100
 58 27.9 28.8 43.2#
 100 0.0 8.0 12.0#





#42

Toluene

Concen: 0.169 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.01 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

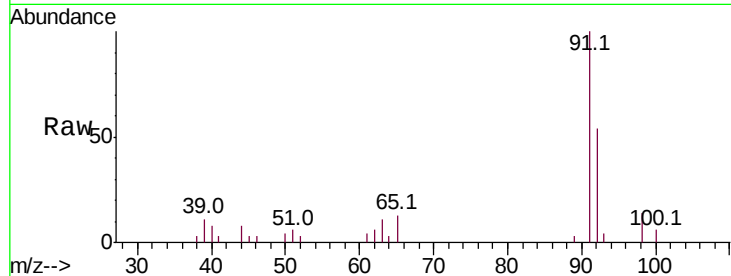
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 7255

Ion Ratio Lower Upper

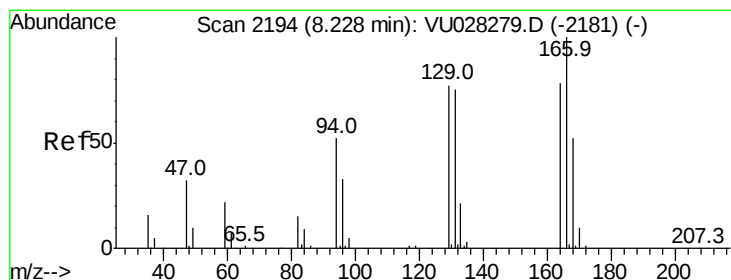
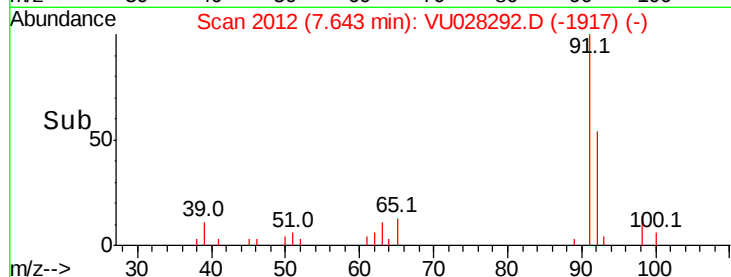
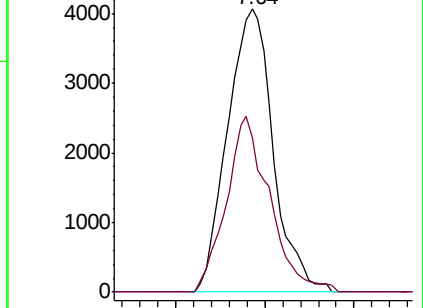
91 100

92 54.3 39.0 72.4



Abundance Ion 91.15 (90.85 to 91.85): VU028279.D (-1996) (-)

Ion 92.15 (91.85 to 92.85): VU028279.D (-1996) (-)



#47

Tetrachloroethene

Concen: 0.381 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

Tgt Ion:164 Resp: 2747

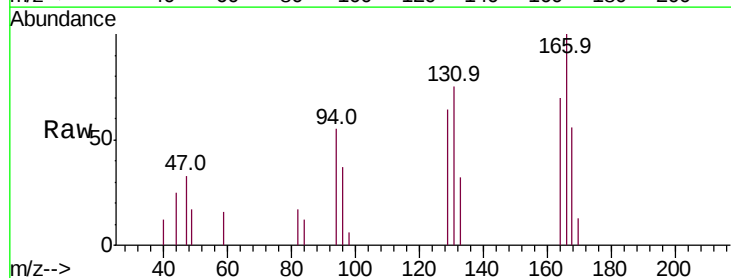
Ion Ratio Lower Upper

164 100

129 91.7 67.6 125.6

131 106.3 66.3 123.1

166 142.4 89.2 165.6

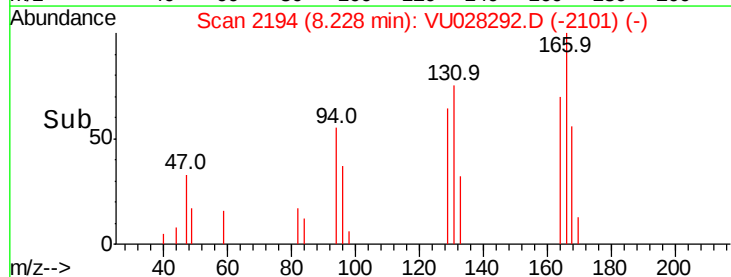
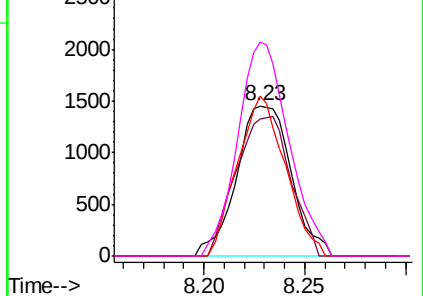


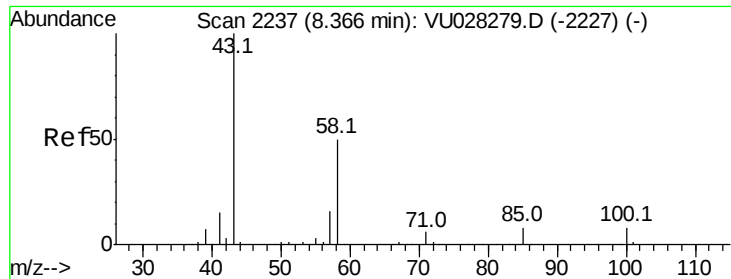
Abundance Ion 163.90 (163.60 to 164.60): VU028279.D (-2181) (-)

Ion 128.95 (128.65 to 129.65): VU028279.D (-2181) (-)

Ion 130.95 (130.65 to 131.65): VU028279.D (-2181) (-)

Ion 165.90 (165.60 to 166.60): VU028279.D (-2181) (-)

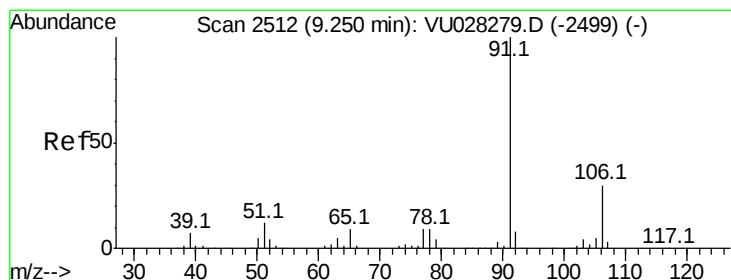
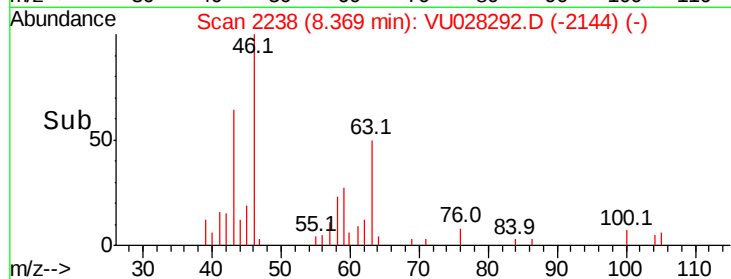
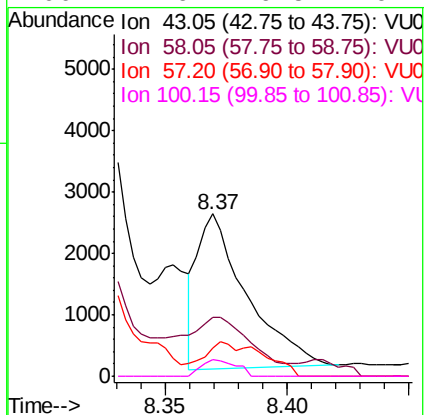
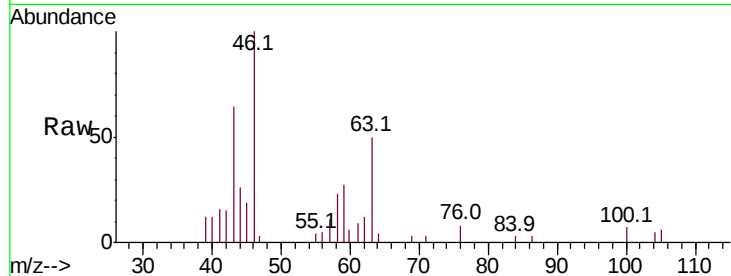




#48
2-Hexanone
Concen: 0.575 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU028292.D
Acq: 20 Nov 2018 20:56

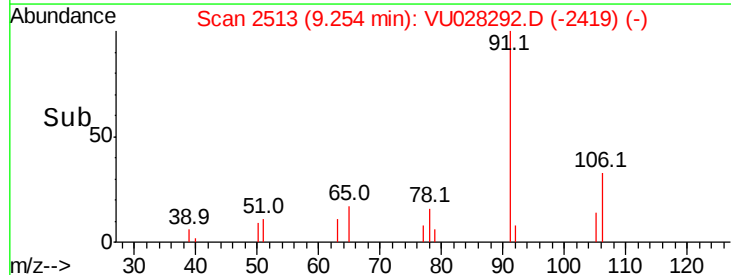
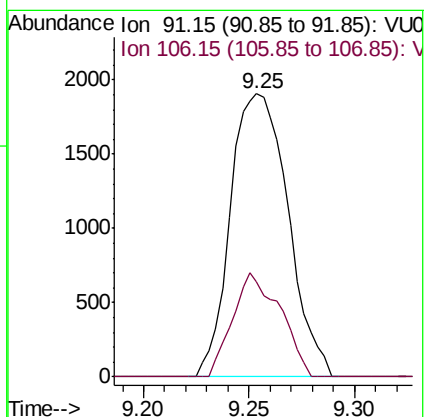
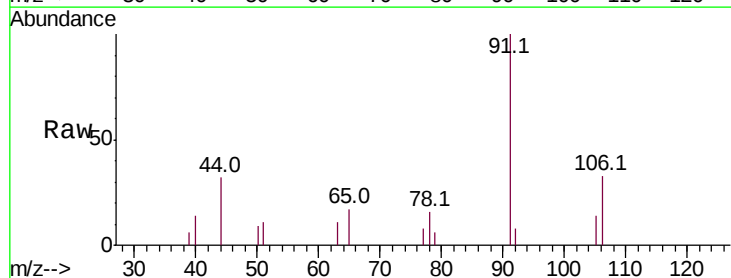
Instrument :
MSVOA_U
ClientSampleId :

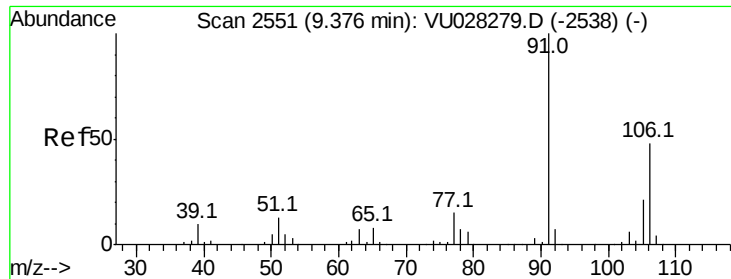
Tot Ion: 43 Resp: 3543
Ion Ratio Lower Upper
43 100
58 43.4 41.1 61.7
57 26.2 13.8 20.8#
100 7.6 6.5 9.7



#52
Ethylbenzene
Concen: 0.078 ug/L
RT: 9.25 min Scan# 2513
Delta R.T. 0.00 min
Lab File: VU028292.D
Acq: 20 Nov 2018 20:56

Tgt Ion: 91 Resp: 3606
Ion Ratio Lower Upper
91 100
106 33.4 19.3 35.9





#53

m,p-xylene

Concen: 0.420 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028292.D

Acq: 20 Nov 2018 20:56

Instrument :

MSVOA_U

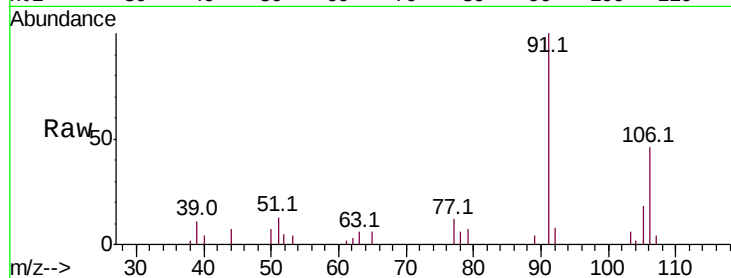
ClientSampled :

Tot Ion:106 Resp: 6737

Ion Ratio Lower Upper

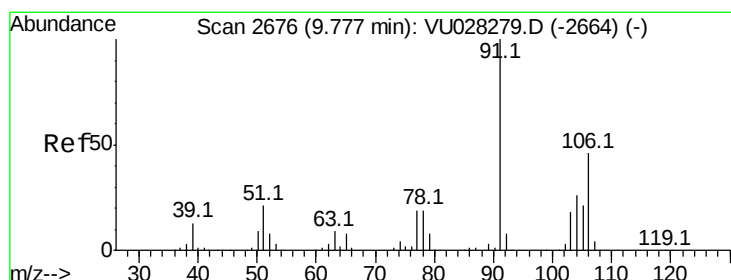
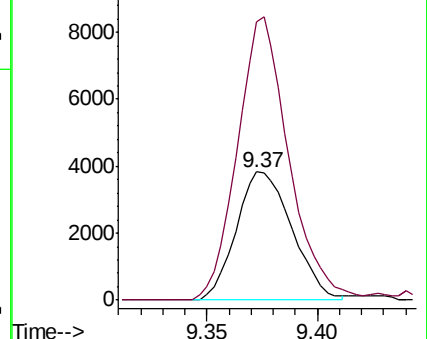
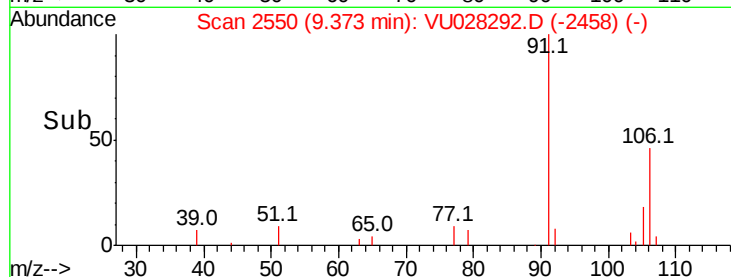
106 100

91 216.9 150.6 279.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-xylene

Concen: 0.159 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU028292.D

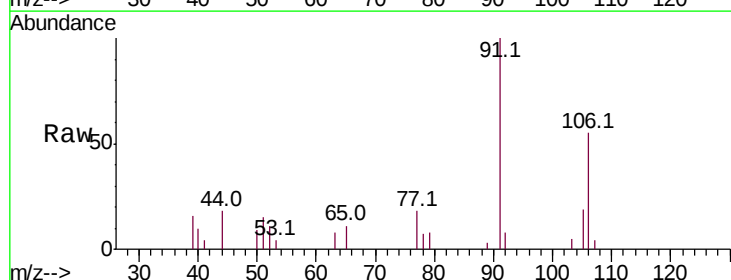
Acq: 20 Nov 2018 20:56

Tgt Ion:106 Resp: 2539

Ion Ratio Lower Upper

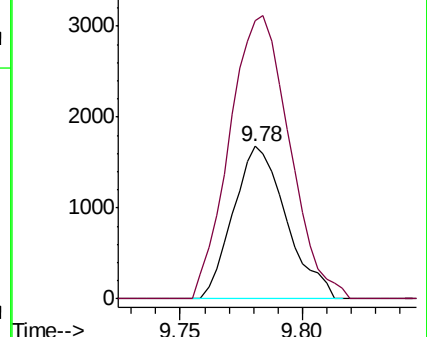
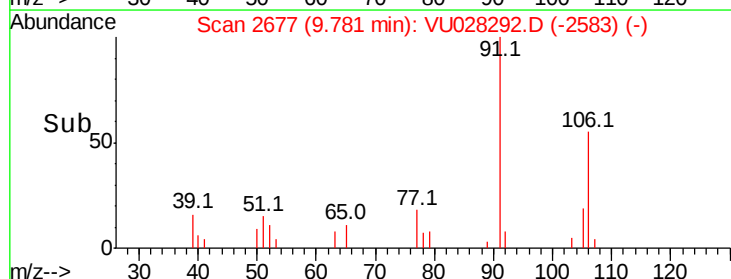
106 100

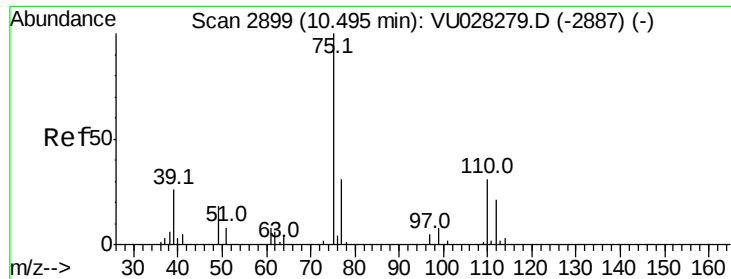
91 182.5 157.5 292.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

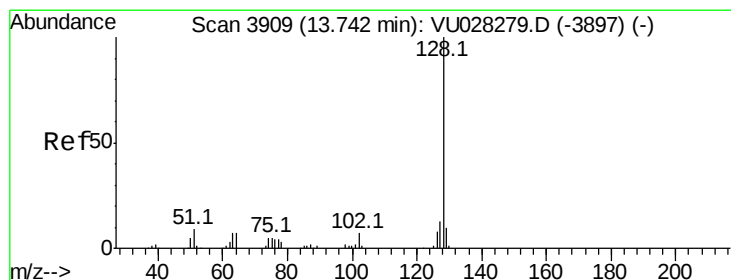
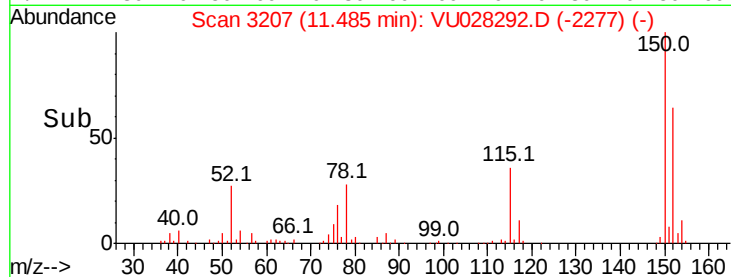
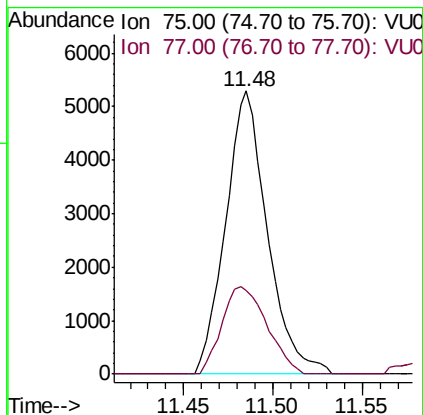
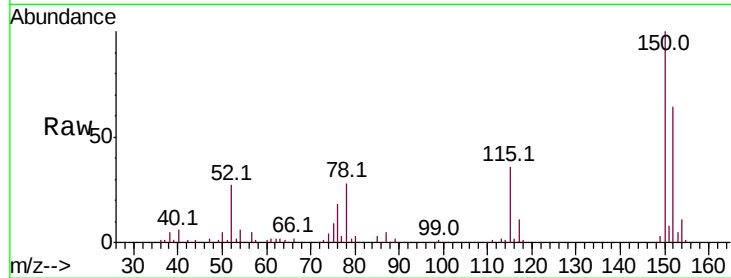




#59
 1,2,3-Trichloropropane
 Concen: 1.229 ug/L
 RT: 11.48 min Scan# 3207
 Delta R.T. 0.99 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 8586
 Ion Ratio Lower Upper
 75 100
 77 33.3 25.7 38.5



#69
 Naphthalene
 Concen: 0.098 ug/L
 RT: 13.76 min Scan# 3914
 Delta R.T. 0.02 min
 Lab File: VU028292.D
 Acq: 20 Nov 2018 20:56

Tgt Ion: 128 Resp: 1908
 Ion Ratio Lower Upper
 128 100
 129 7.3 8.6 12.8#
 127 0.0 10.7 16.1#

