

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112018\
 Data File : VU028295.D
 Acq On : 20 Nov 2018 22:08
 Operator : MD/SY
 Sample : J5997-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 07:12:36 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	145571	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	140133	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	67575	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	36627	3.34	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.80%
7) Chloroethane-d5	1.68	69	36341	3.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.80%
11) 1,1-Dichloroethene-d2	2.28	63	58217	2.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	53.40%#
20) 2-Butanone-d5	4.19	46	162336	44.28	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.56%
24) Chloroform-d	4.65	84	82995	4.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.20%
26) 1,2-Dichloroethane-d4	5.31	65	46431	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.20%
32) Benzene-d6	5.34	84	163162	4.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.00%
36) 1,2-Dichloropropane-d6	6.33	67	61083	4.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.40%
41) Toluene-d8	7.57	98	135566	3.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.20%
43) trans-1,3-Dichloropropene-	7.85	79	15651	3.35	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	67.00%
46) 2-Hexanone-d5	8.31	63	112789	40.19	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.38%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	45749	4.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	53147	4.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.31	85	3572	0.292 ug/L	96
8) Chloroethane	1.70	64	20126	2.305 ug/L	94
12) 1,1-Dichloroethene	2.28	96	514	0.057 ug/L #	1
13) Acetone	2.33	43	11731	4.653 ug/L	95
19) 1,1-Dichloroethane	3.45	63	4312	0.195 ug/L	93
30) Cyclohexane	4.99	56	1878	0.091 ug/L #	84
33) Benzene	5.39	78	113313	2.451 ug/L	100
34) Trichloroethene	6.19	95	1398	0.124 ug/L #	75
35) Methylcyclohexane	6.39	83	4465	0.250 ug/L #	35
37) 1,2-Dichloropropane	6.44	63	4647	0.352 ug/L #	95
39) cis-1,3-Dichloropropene	7.23	75	1285	0.077 ug/L #	67
40) 4-Methyl-2-pentanone	7.47	43	2986	0.317 ug/L #	91
42) Toluene	7.64	91	5796	0.124 ug/L	80
45) 1,1,2-Trichloroethane	8.04	97	4044	0.507 ug/L #	17
47) Tetrachloroethene	8.22	164	1165	0.148 ug/L #	85
48) 2-Hexanone	8.31	43	15577	2.316 ug/L #	70
49) Dibromochloromethane	8.65	129	3029	0.375 ug/L #	10

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Quant Time: Nov 21 07:12:36 2018
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 21 07:07:52 2018
Response via : Initial Calibration

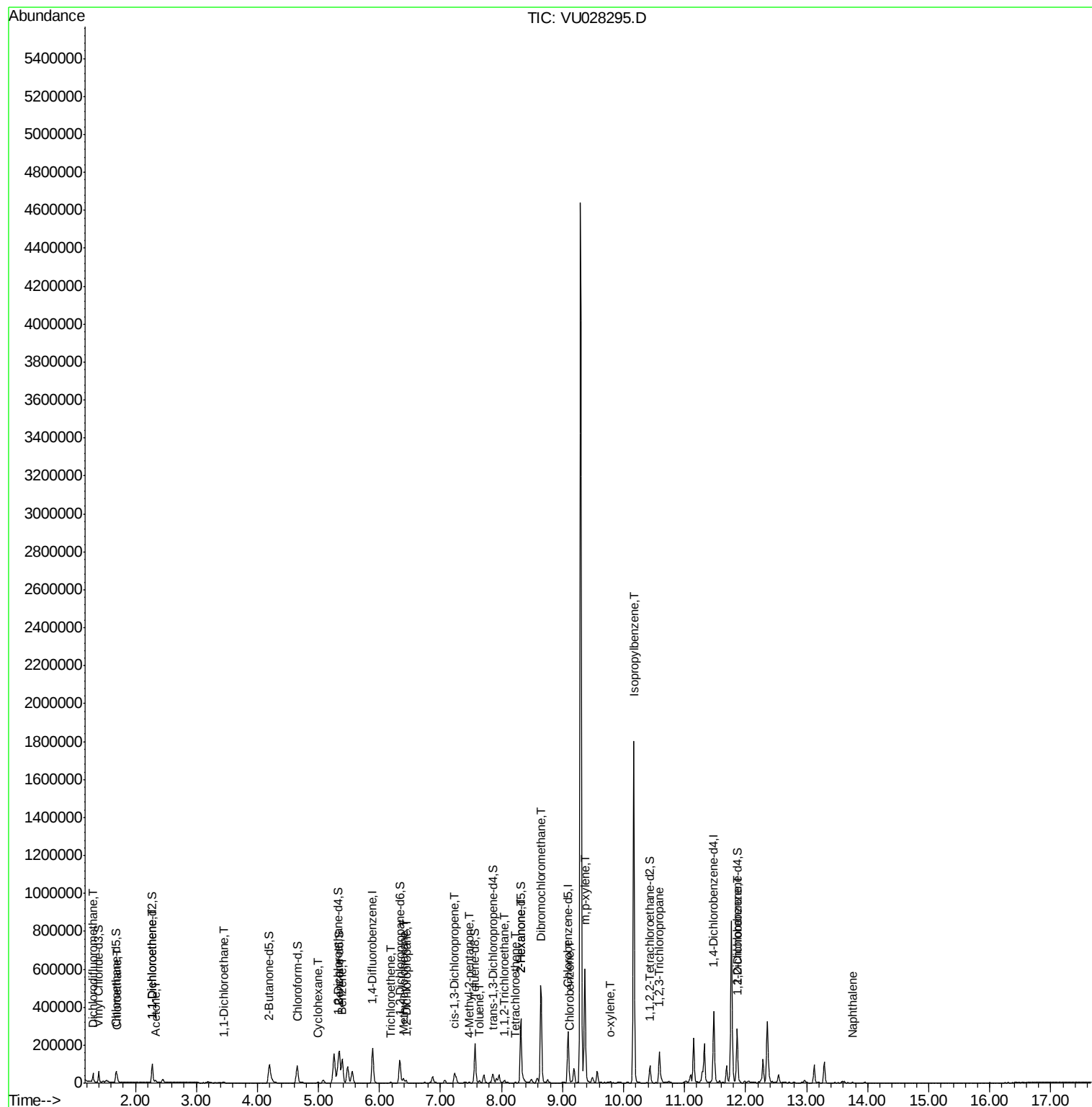
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.12	112	1361	0.050	ug/L	90
53) m,p-xylene	9.38	106	6447	0.368	ug/L	93
54) o-xylene	9.78	106	1978	0.113	ug/L	88
56) Isopropylbenzene	10.17	105	1080558	23.083	ug/L	99
59) 1,2,3-Trichloropropane	10.58	75	714	0.094	ug/L #	1
65) 1,2-Dichlorobenzene	11.88	146	1628	0.081	ug/L #	93
69) Naphthalene	13.75	128	2158	0.092	ug/L #	83

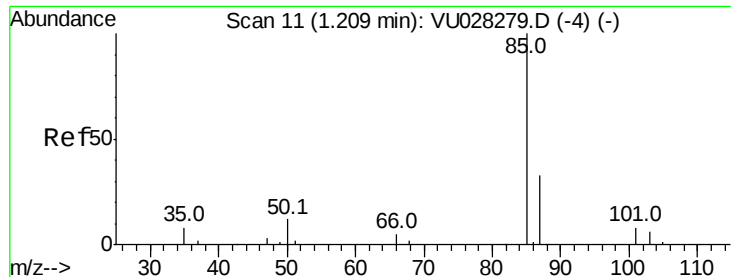
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.292 ug/L

RT: 1.31 min Scan# 41

Delta R.T. 0.10 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

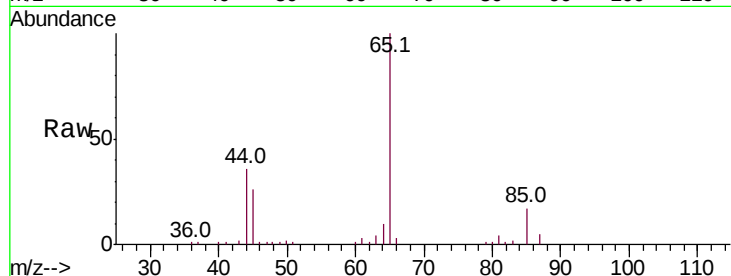
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 3572

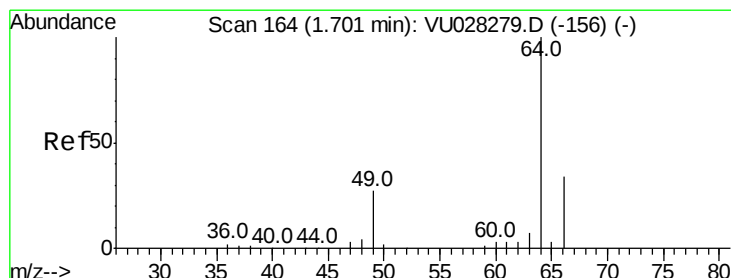
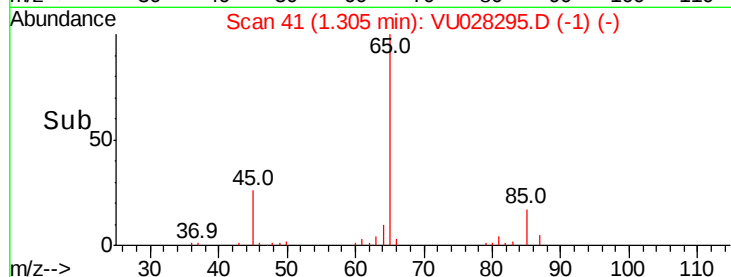
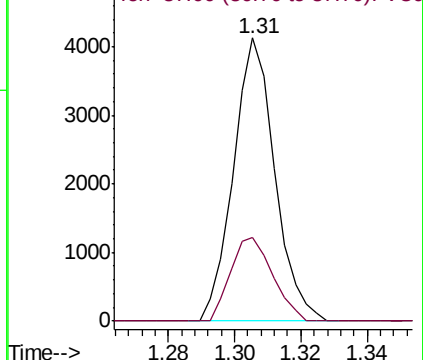
Ion Ratio Lower Upper

85 100

87 30.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#8

Chloroethane

Concen: 2.305 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU028295.D

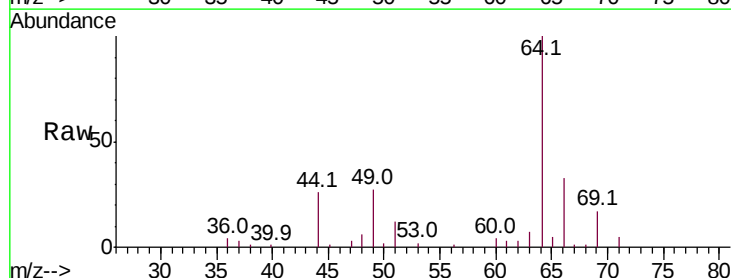
Acq: 20 Nov 2018 22:08

Tgt Ion: 64 Resp: 20126

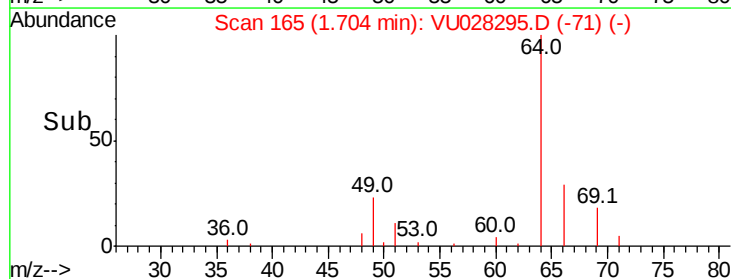
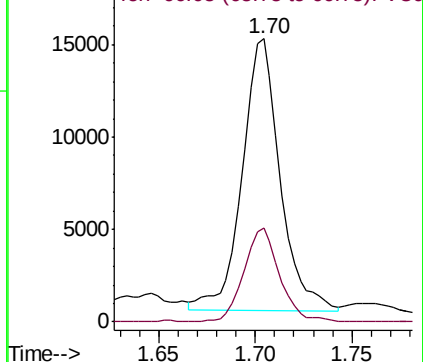
Ion Ratio Lower Upper

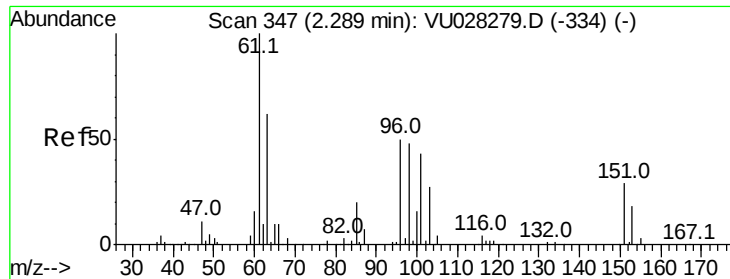
64 100

66 33.0 20.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VU0
Ion 66.05 (65.75 to 66.75): VU0





#12

1,1-Dichloroethene

Concen: 0.057 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

Instrument :
MSVOA_U
ClientSampled :

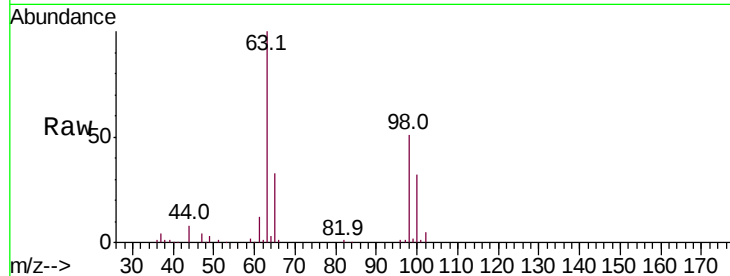
Tot Ion: 96 Resp: 514

Ion Ratio Lower Upper

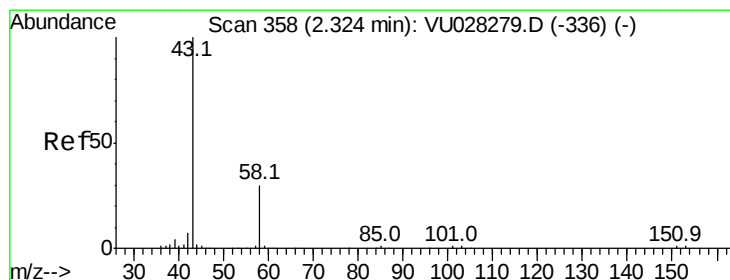
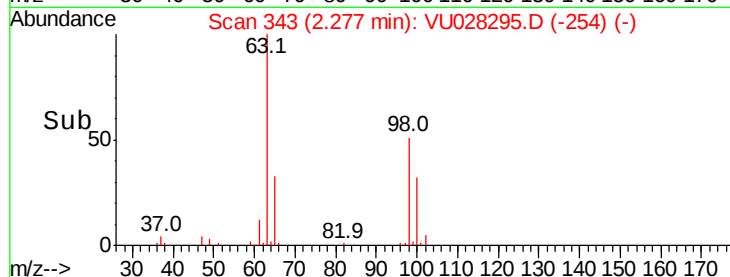
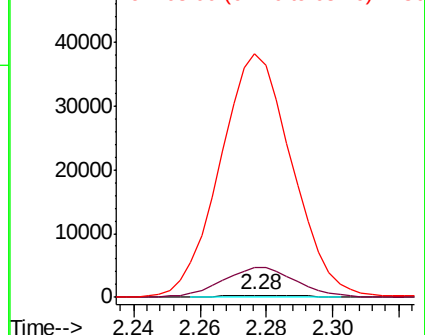
96 100

61 1324.6 145.5 270.1#

63 10943.3 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: 4.653 ug/L

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU028295.D

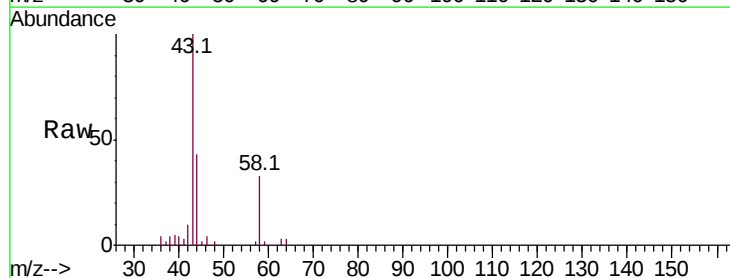
Acq: 20 Nov 2018 22:08

Tgt Ion: 43 Resp: 11731

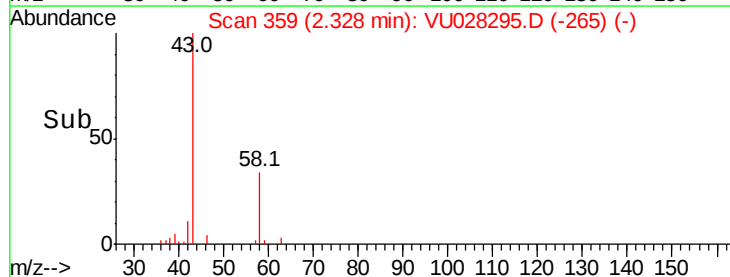
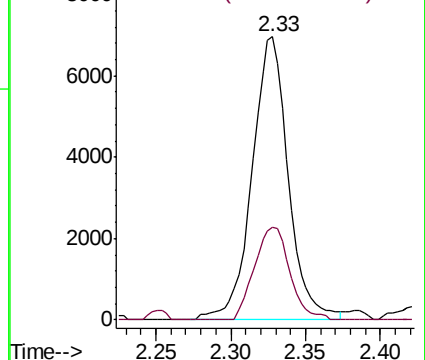
Ion Ratio Lower Upper

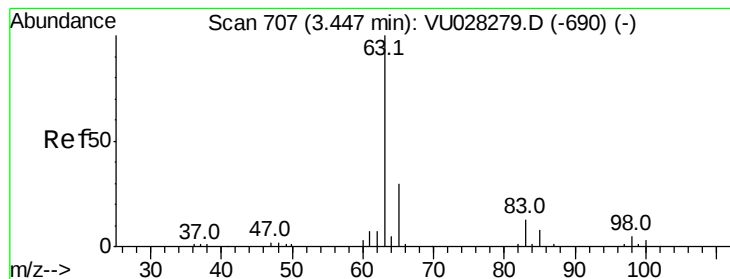
43 100

58 32.0 0.0 58.6



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





#19

1,1-Dichloroethane

Concen: 0.195 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

Instrument :
MSVOA_U
ClientSampled :

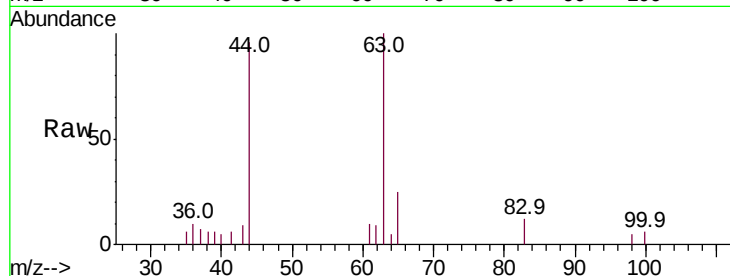
Tot Ion: 63 Resp: 4312

Ion Ratio Lower Upper

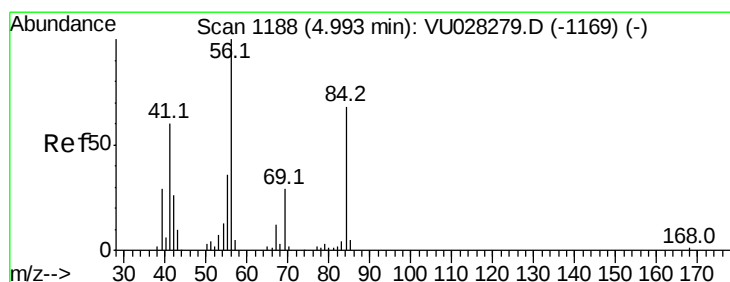
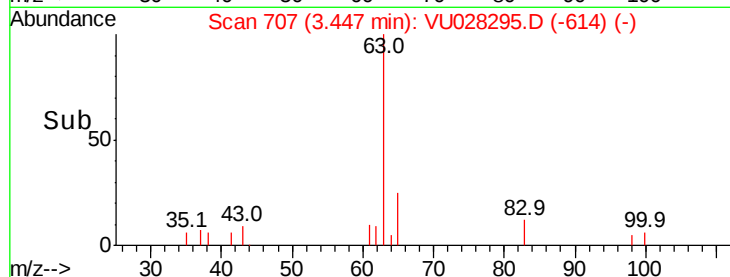
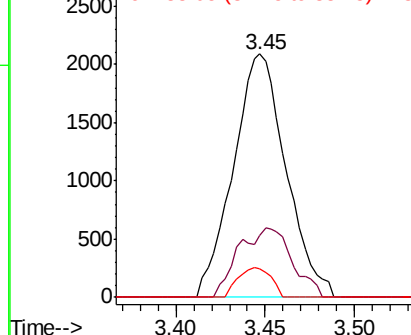
63 100

65 25.4 21.2 39.4

83 11.8 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



#30

Cyclohexane

Concen: 0.091 ug/L

RT: 4.99 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

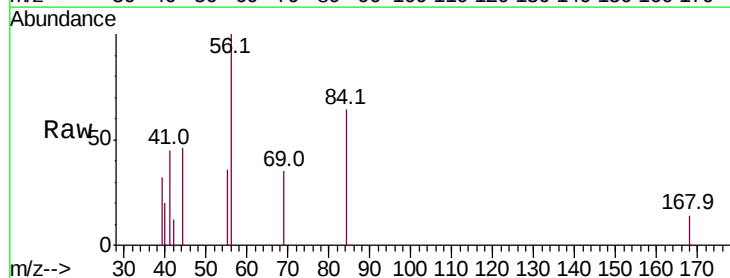
Tgt Ion: 56 Resp: 1878

Ion Ratio Lower Upper

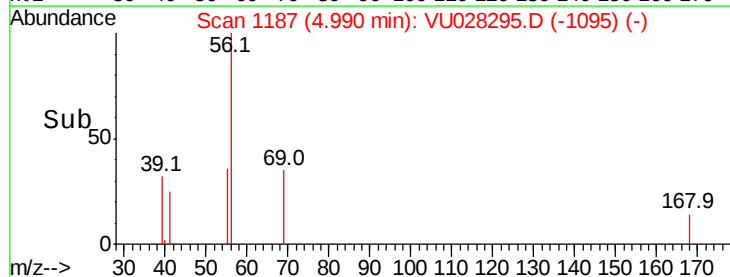
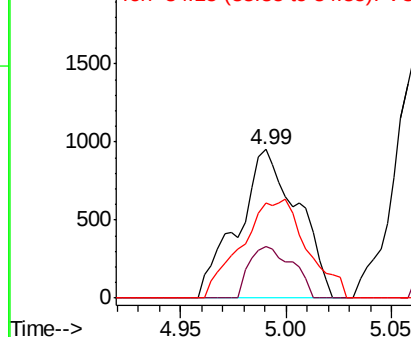
56 100

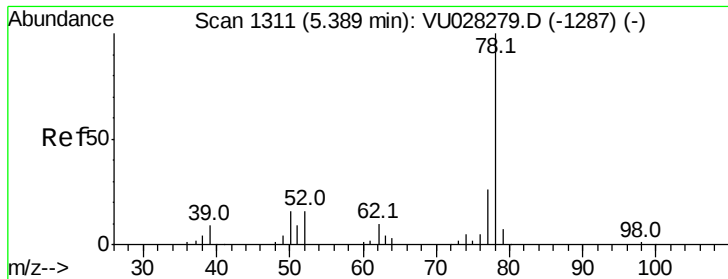
69 0.0 22.0 33.0#

84 71.8 56.0 84.0



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

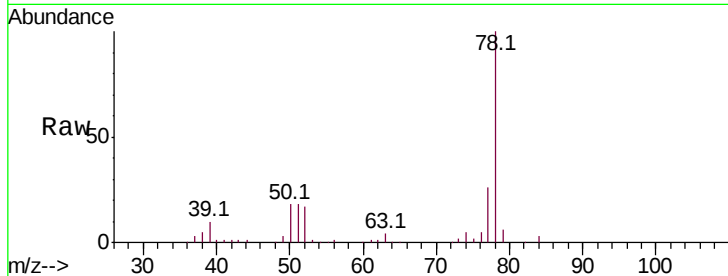




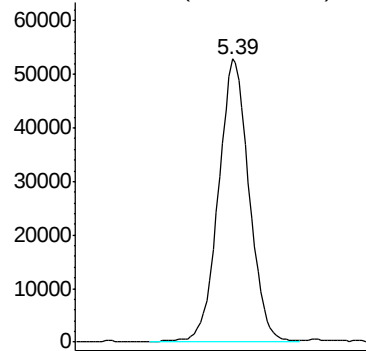
#33
Benzene
Concen: 2.451 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

Instrument :
MSVOA_U
ClientSampled :

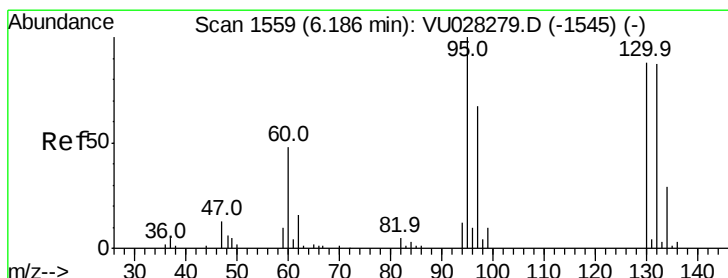
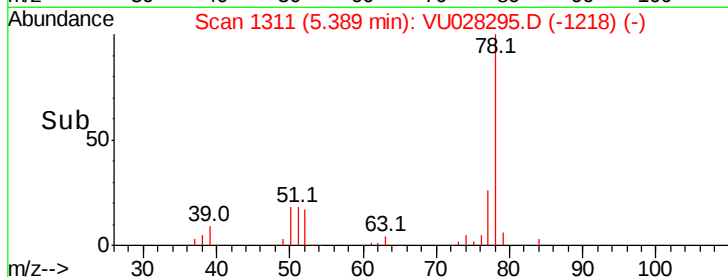
Tgt Ion: 78 Resp: 113313



Abundance Ion 78.10 (77.80 to 78.80): VU0

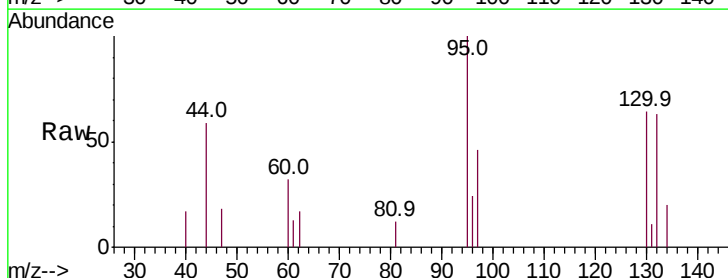


Time-->



#34
Trichloroethene
Concen: 0.124 ug/L
RT: 6.19 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

Tgt Ion: 95 Resp: 1398
Ion Ratio Lower Upper
95 100
97 46.0 46.5 86.3#
132 63.2 58.9 109.3
130 64.1 61.3 113.9

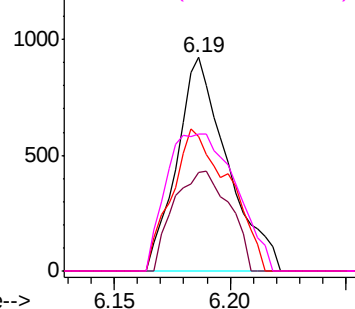


Abundance Ion 95.00 (94.70 to 95.70): VU0

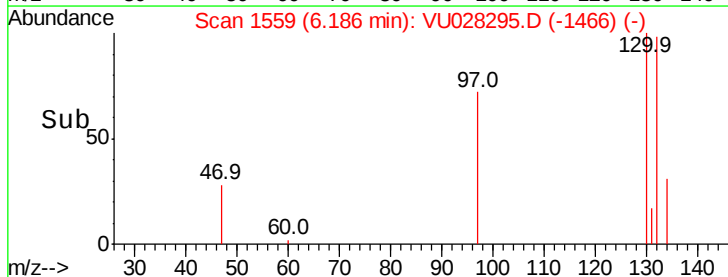
Ion 96.95 (96.65 to 97.65): VU0

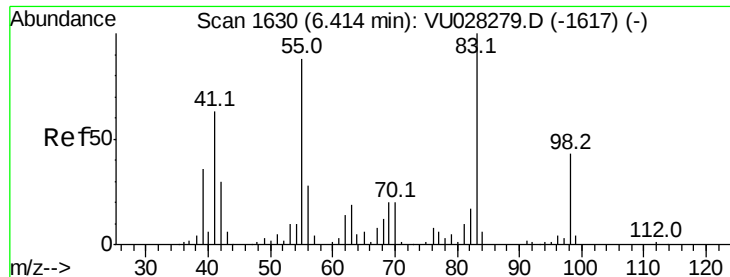
Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



Time-->

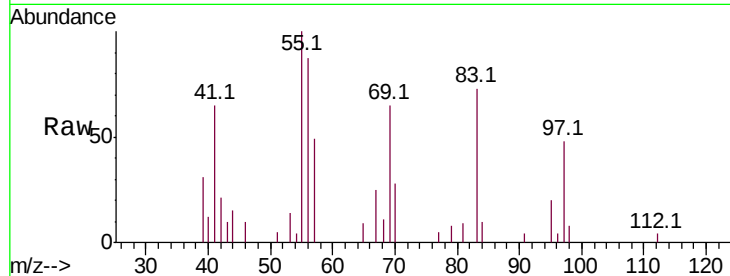




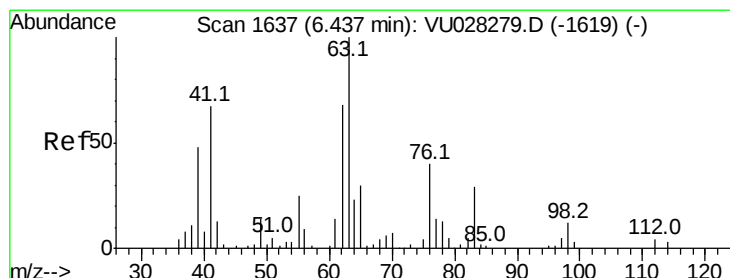
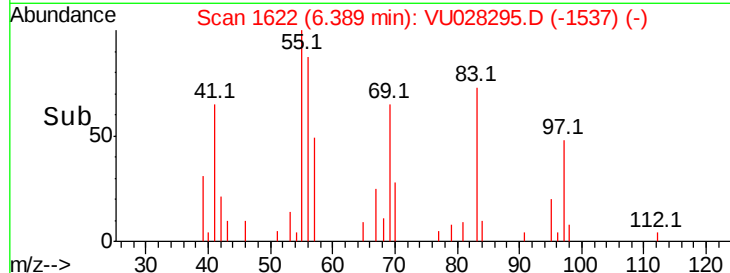
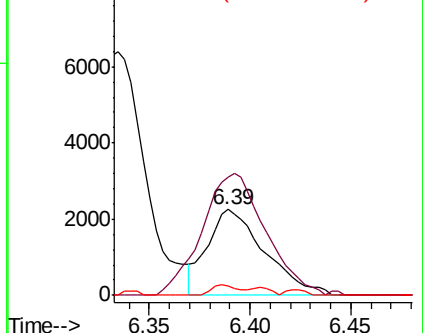
#35
Methylcyclohexane
Concen: 0.250 ug/L
RT: 6.39 min Scan# 1622
Delta R.T. -0.03 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 4465
Ion Ratio Lower Upper
83 100
55 157.1 73.2 109.8#
98 5.9 33.4 50.2#

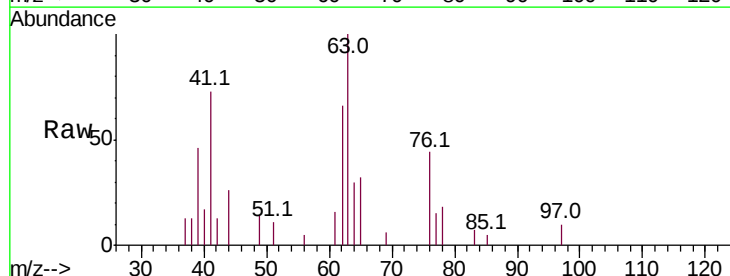


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

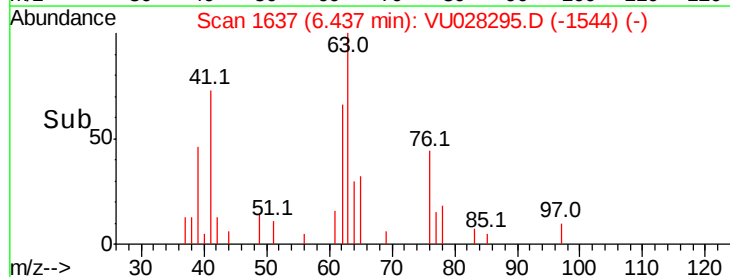
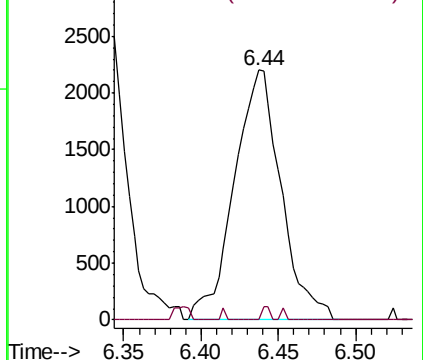


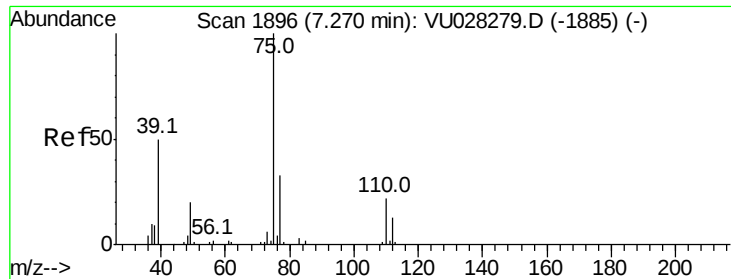
#37
1,2-Dichloropropane
Concen: 0.352 ug/L
RT: 6.44 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

Tgt Ion: 63 Resp: 4647
Ion Ratio Lower Upper
63 100
112 1.0 2.2 3.2#



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

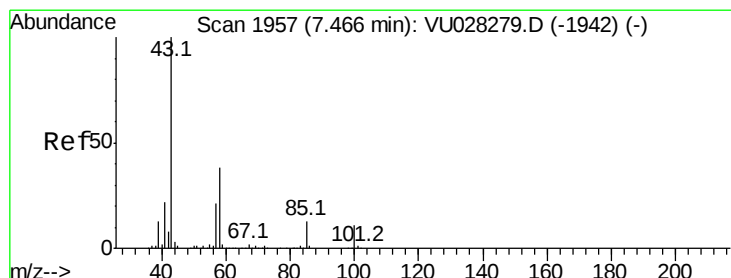
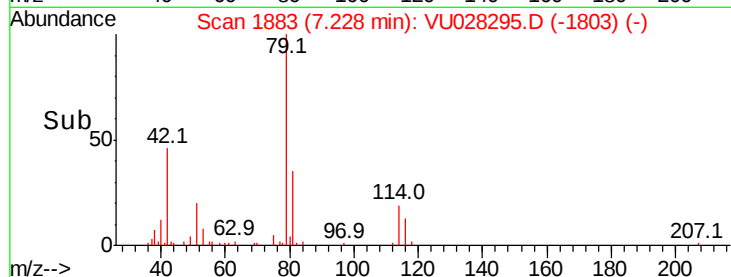
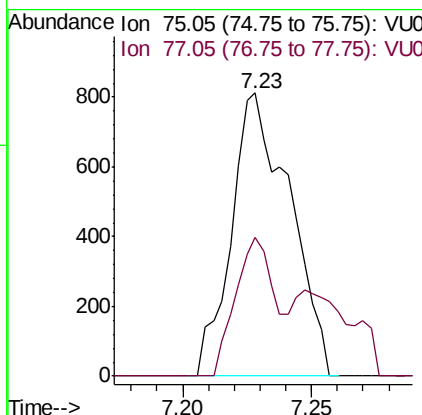
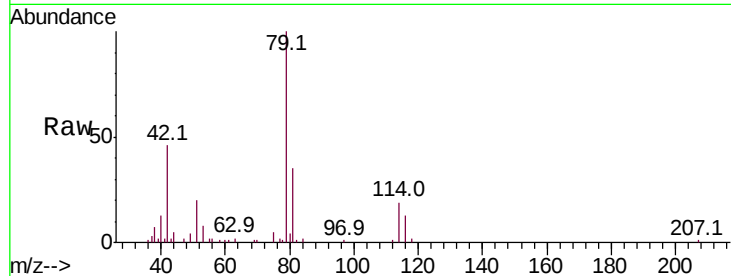




#39
 cis-1,3-Dichloropropene
 Concen: 0.077 ug/L
 RT: 7.23 min Scan# 1883
 Delta R.T. -0.04 min
 Lab File: VU028295.D
 Acq: 20 Nov 2018 22:08

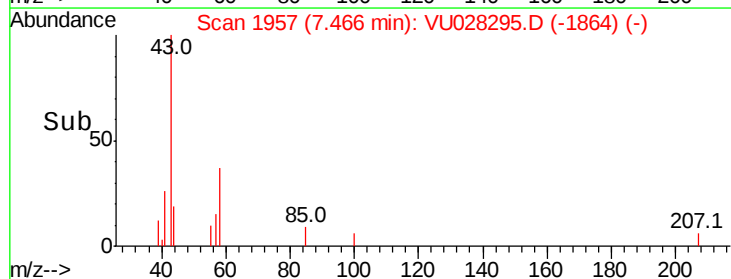
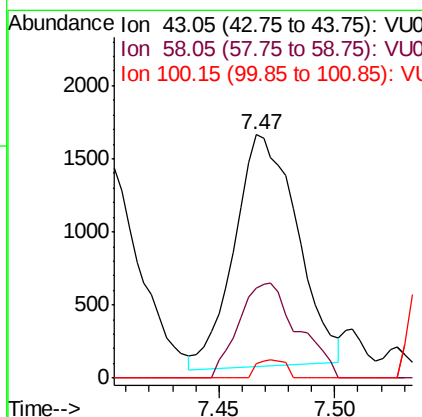
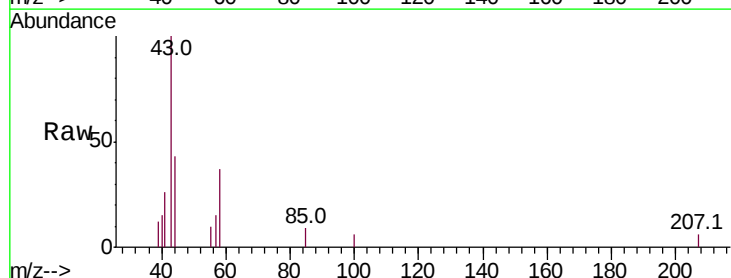
Instrument :
 MSVOA_U
 ClientSampleId :

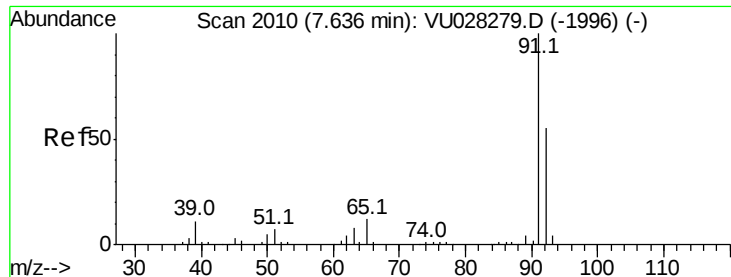
Tot Ion: 75 Resp: 1285
 Ion Ratio Lower Upper
 75 100
 77 49.1 21.7 40.3#



#40
 4-Methyl-2-pentanone
 Concen: 0.317 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU028295.D
 Acq: 20 Nov 2018 22:08

Tgt Ion: 43 Resp: 2986
 Ion Ratio Lower Upper
 43 100
 58 38.7 28.8 43.2
 100 0.0 8.0 12.0#





#42

Toluene

Concen: 0.124 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

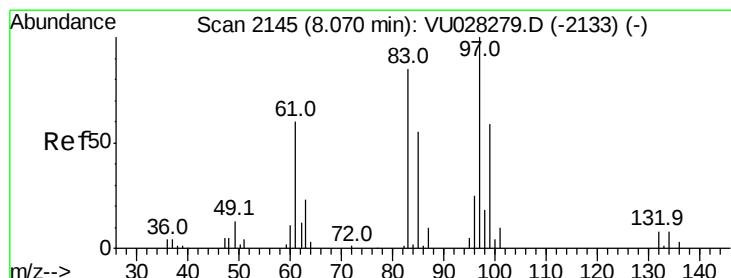
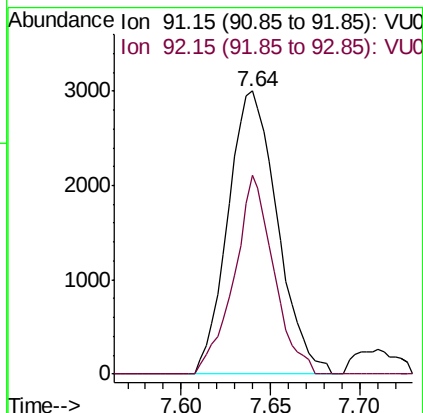
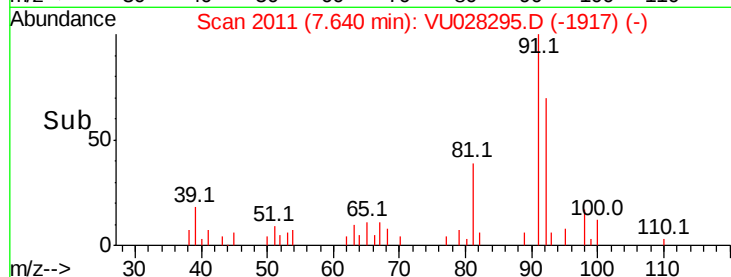
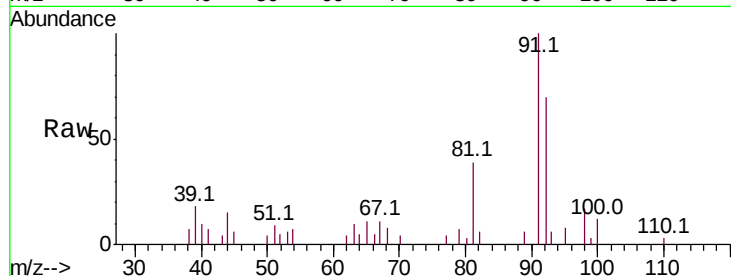
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 5796

Ion Ratio Lower Upper

91 100

92 70.1 39.0 72.4



#45

1,1,2-Trichloroethane

Concen: 0.507 ug/L

RT: 8.04 min Scan# 2137

Delta R.T. -0.03 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

Tgt Ion: 97 Resp: 4044

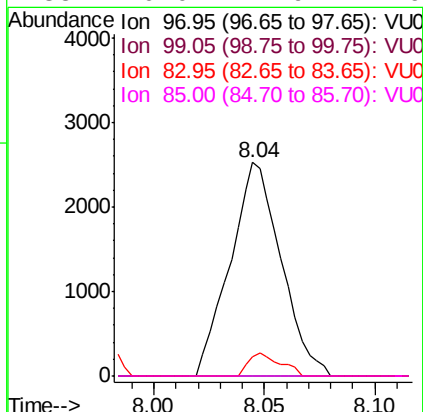
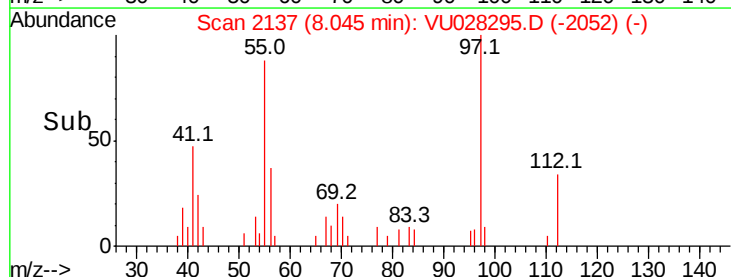
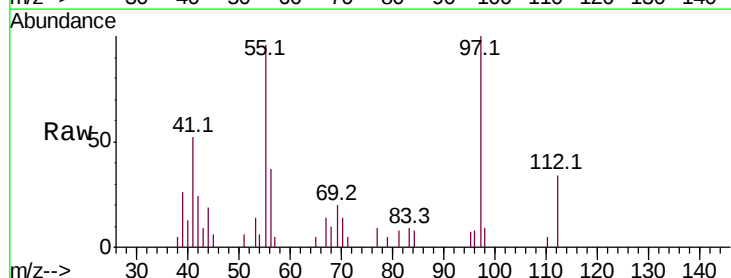
Ion Ratio Lower Upper

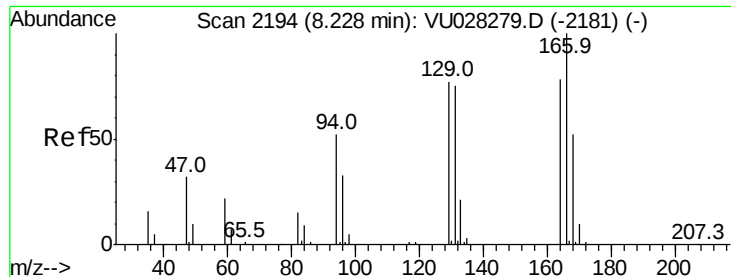
97 100

99 0.0 44.2 82.0#

83 9.1 63.3 117.5#

85 0.0 41.9 77.9#

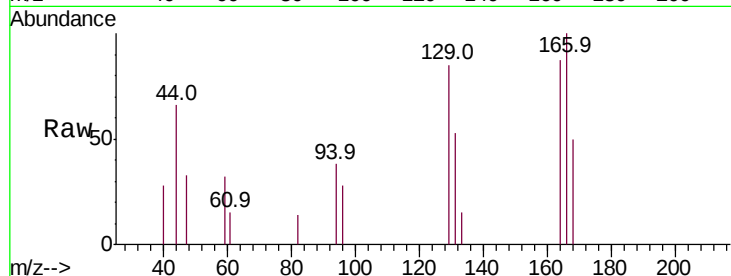




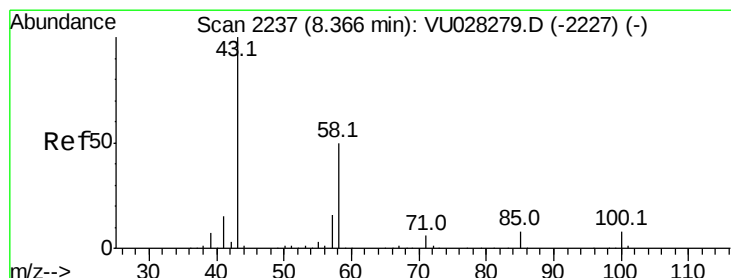
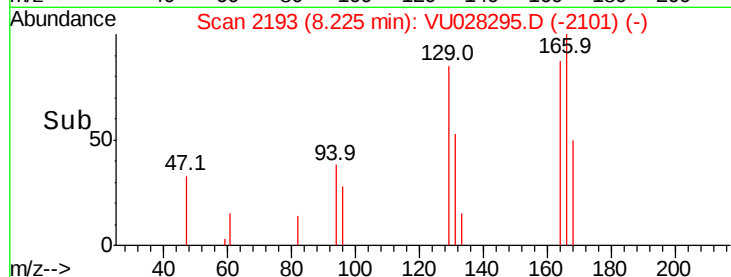
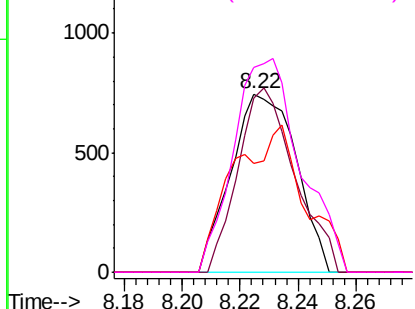
#47
Tetrachloroethene
Concen: 0.148 ug/L
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 1165
Ion Ratio Lower Upper
164 100
129 97.6 67.6 125.6
131 61.0 66.3 123.1#
166 115.3 89.2 165.6

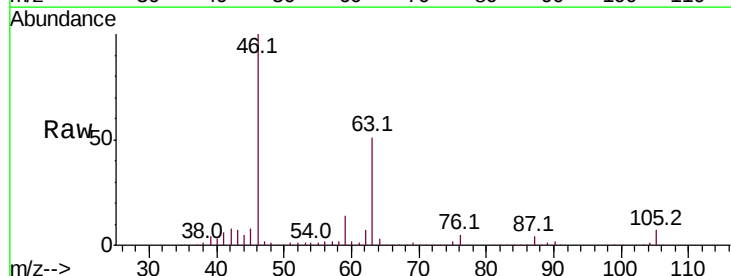


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

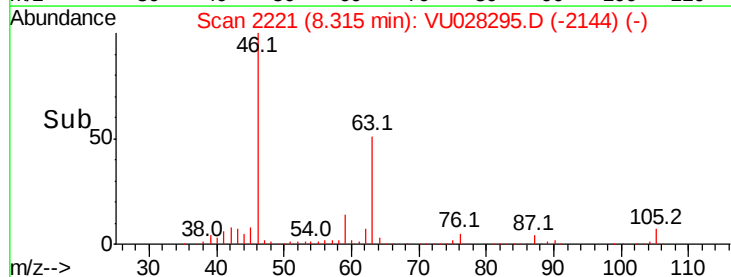
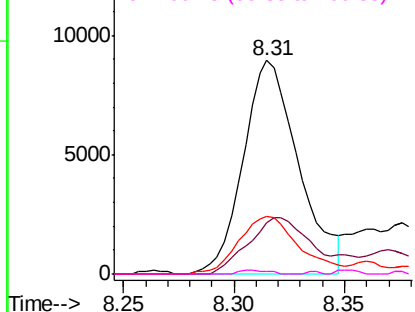


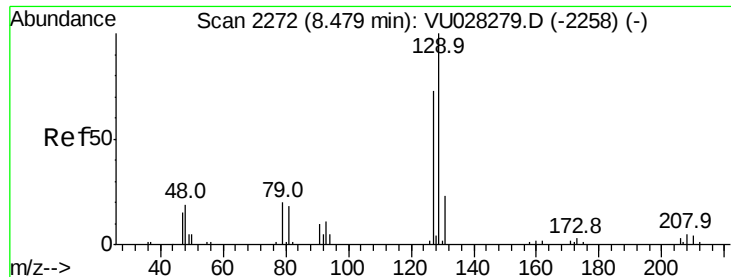
#48
2-Hexanone
Concen: 2.316 ug/L
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

Tgt Ion: 43 Resp: 15577
Ion Ratio Lower Upper
43 100
58 28.7 41.1 61.7#
57 29.5 13.8 20.8#
100 1.0 6.5 9.7#



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

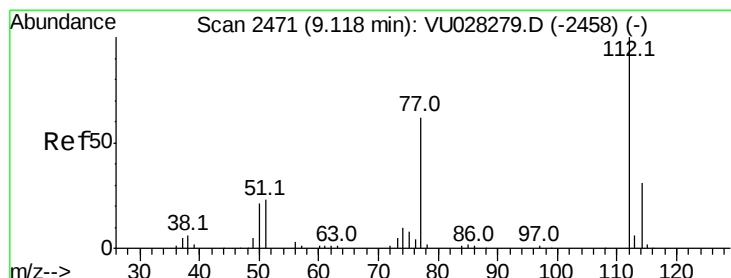
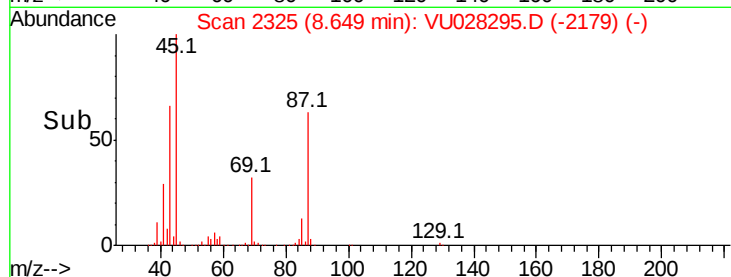
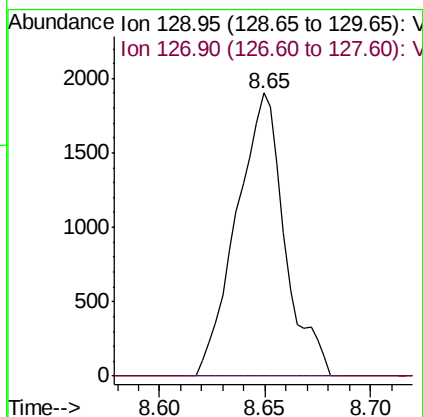
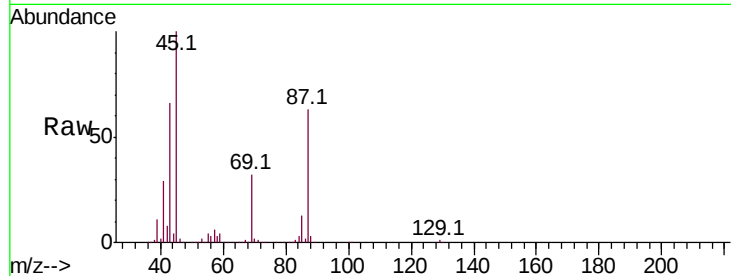




#49
Dibromochloromethane
Concen: 0.375 ug/L
RT: 8.65 min Scan# 2325
Delta R.T. 0.17 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

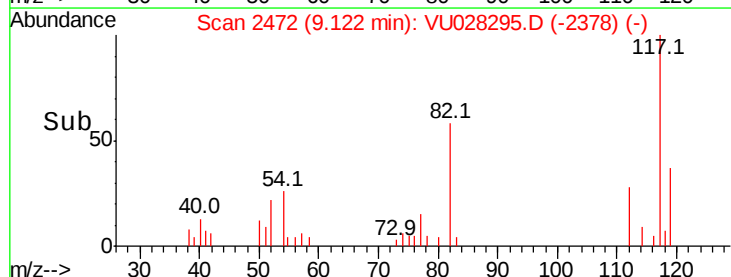
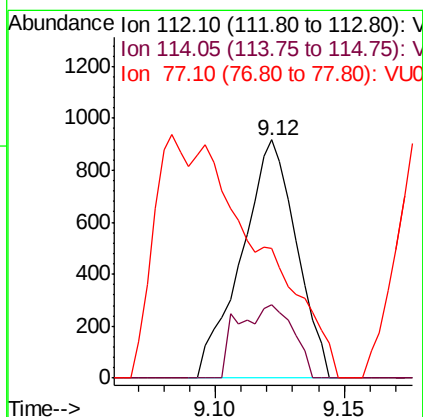
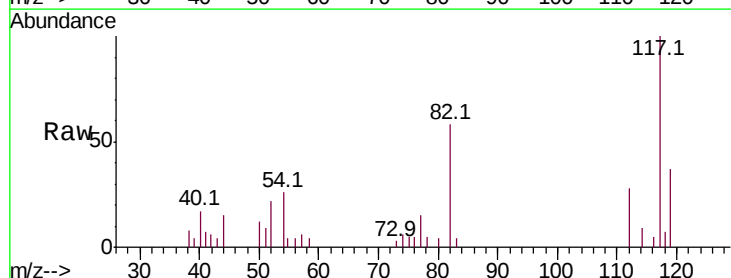
Instrument :
MSVOA_U
ClientSampleId :

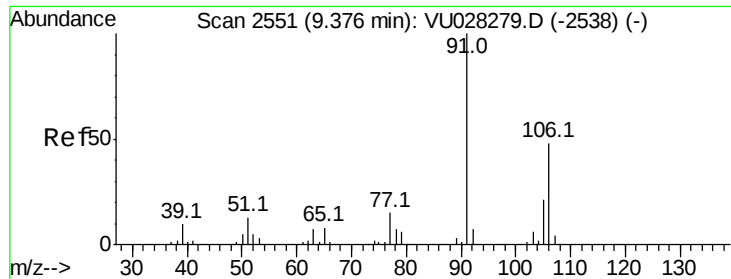
Tot Ion:129 Resp: 3029
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.5#



#51
Chlorobenzene
Concen: 0.050 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU028295.D
Acq: 20 Nov 2018 22:08

Tgt Ion:112 Resp: 1361
Ion Ratio Lower Upper
112 100
114 30.9 22.3 41.5
77 54.3 52.4 78.6

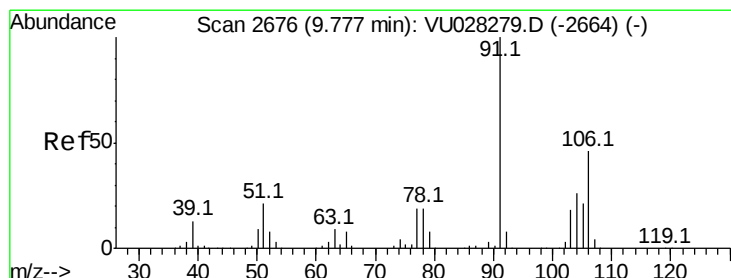
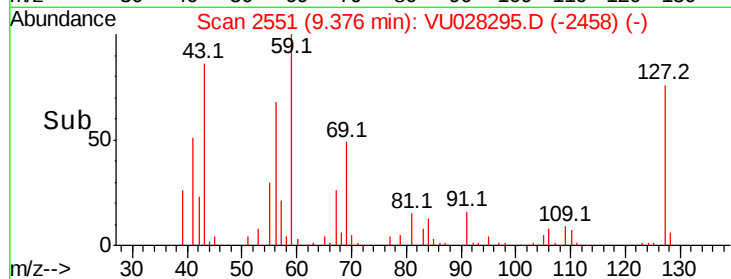
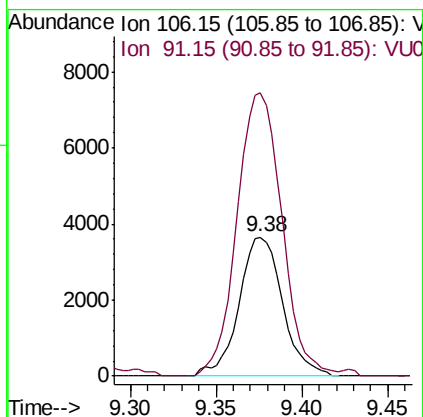
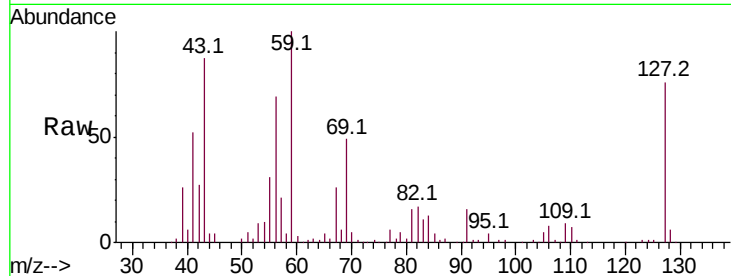




#53
 m,p-xylene
 Concen: 0.368 ug/L
 RT: 9.38 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VU028295.D
 Acq: 20 Nov 2018 22:08

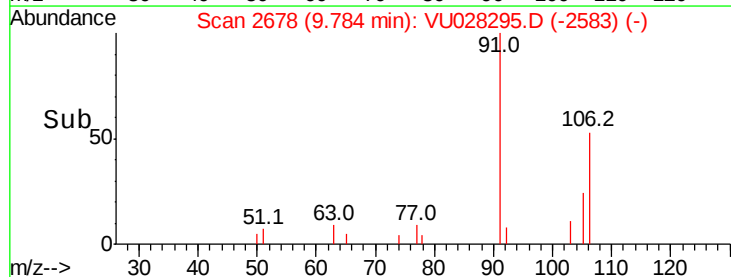
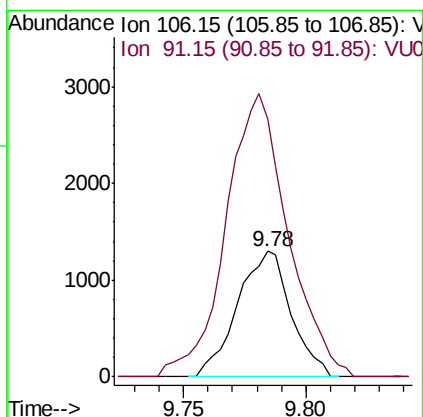
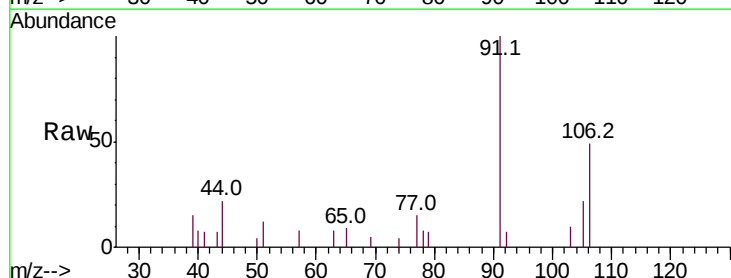
Instrument :
 MSVOA_U
 ClientSampleId :

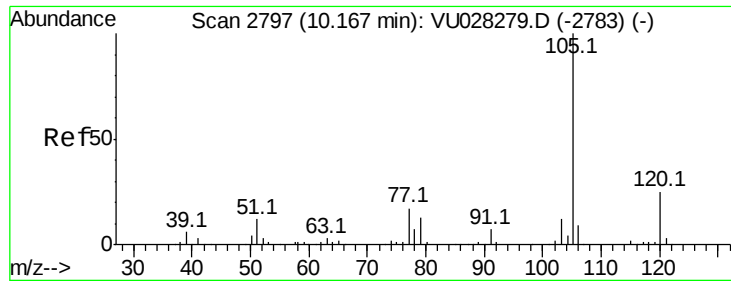
Tot Ion:106 Resp: 6447
 Ion Ratio Lower Upper
 106 100
 91 203.9 150.6 279.6



#54
 o-xylene
 Concen: 0.113 ug/L
 RT: 9.78 min Scan# 2678
 Delta R.T. 0.01 min
 Lab File: VU028295.D
 Acq: 20 Nov 2018 22:08

Tgt Ion:106 Resp: 1978
 Ion Ratio Lower Upper
 106 100
 91 204.9 157.5 292.5





#56

Isopropylbenzene

Concen: 23.083 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

Instrument :

MSVOA_U

ClientSampleId :

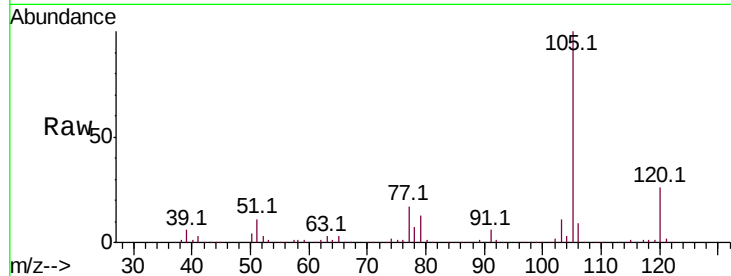
Tot Ion:105 Resp: 1080558

Ion Ratio Lower Upper

105 100

120 25.4 20.3 30.5

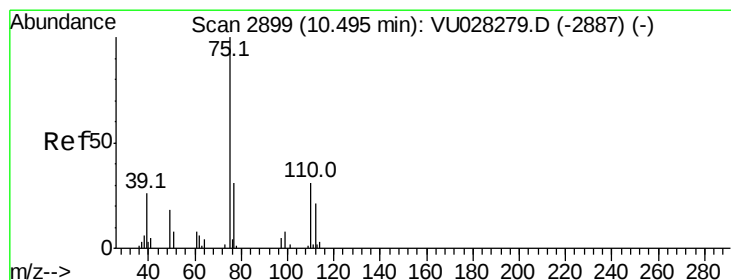
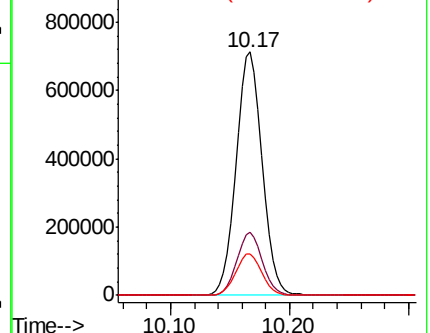
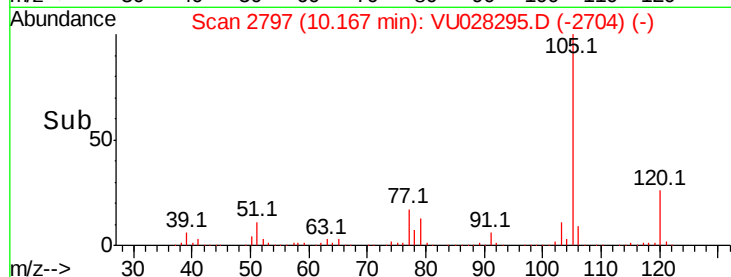
77 17.1 14.5 21.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU



#59

1,2,3-Trichloropropane

Concen: 0.094 ug/L

RT: 10.58 min Scan# 2927

Delta R.T. 0.09 min

Lab File: VU028295.D

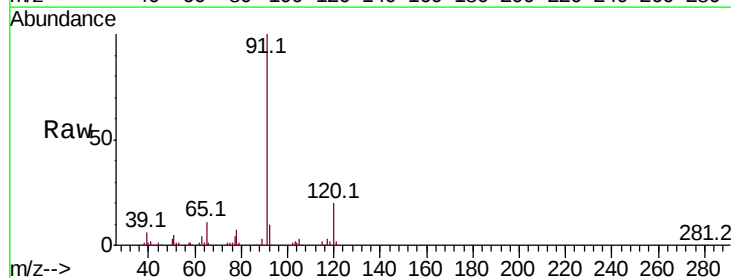
Acq: 20 Nov 2018 22:08

Tgt Ion: 75 Resp: 714

Ion Ratio Lower Upper

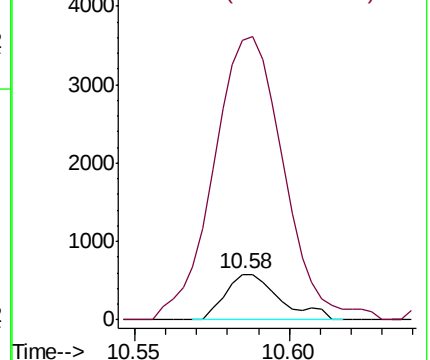
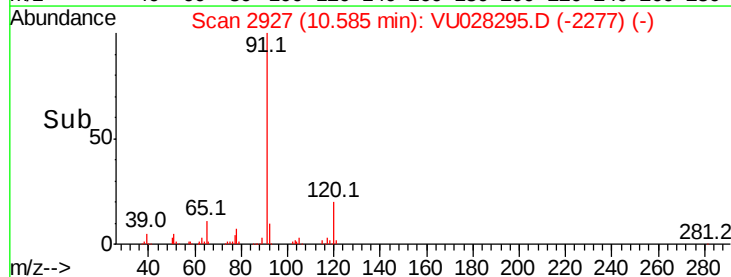
75 100

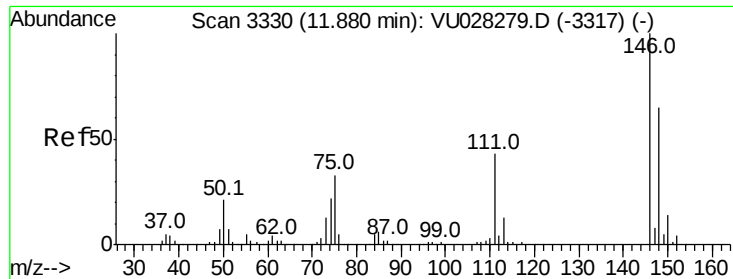
77 798.3 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#65

1,2-Dichlorobenzene

Concen: 0.081 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

Instrument :

MSVOA_U

ClientSampled :

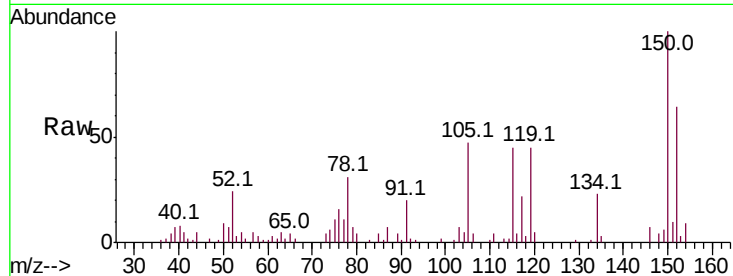
Tot Ion:146 Resp: 1628

Ion Ratio Lower Upper

146 100

111 52.9 34.7 52.1#

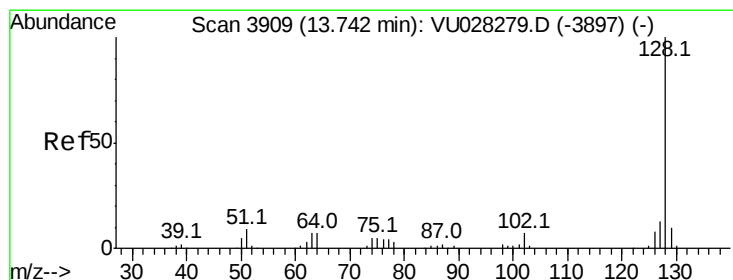
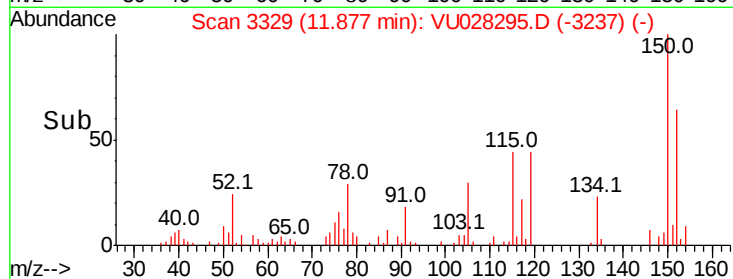
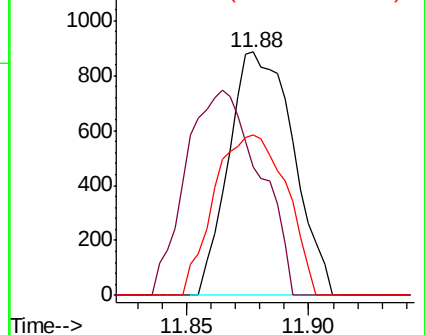
148 65.6 51.2 76.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 0.092 ug/L

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU028295.D

Acq: 20 Nov 2018 22:08

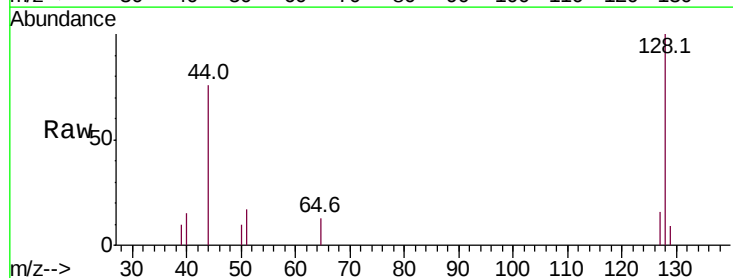
Tgt Ion:128 Resp: 2158

Ion Ratio Lower Upper

128 100

129 0.0 8.6 12.8#

127 10.0 10.7 16.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

