

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028155.D
 Acq On : 15 Nov 2018 05:40
 Operator : MD/SY
 Sample : J5943-17
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 06:20:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 06:14:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	131913	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	126712	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	59085	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	46270	4.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.60%
7) Chloroethane-d5	1.68	69	38045	4.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.60%
11) 1,1-Dichloroethene-d2	2.28	63	68832	3.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.40%
20) 2-Butanone-d5	4.22	46	175765	55.36	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.72%
24) Chloroform-d	4.65	84	85783	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.31	65	49494	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.34	84	172388	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
36) 1,2-Dichloropropane-d6	6.33	67	64776	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.60%
41) Toluene-d8	7.57	98	152056	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	7.85	79	19555	4.21	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.20%
46) 2-Hexanone-d5	8.32	63	140610	53.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.08%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	45182	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	54223	4.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	7543	0.534	ug/L #	80
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	435	0.050	ug/L #	29
12) 1,1-Dichloroethene	2.28	96	537	0.061	ug/L #	1
13) Acetone	2.37	43	5328	2.492	ug/L	76
18) trans-1,2-Dichloroethene	2.99	96	4437	0.476	ug/L	89
19) 1,1-Dichloroethane	3.45	63	2538	0.129	ug/L	95
22) cis-1,2-Dichloroethene	4.22	96	10456	1.017	ug/L	98
33) Benzene	5.40	78	6912	0.162	ug/L	100
34) Trichloroethene	6.19	95	1996	0.189	ug/L	88
35) Methylcyclohexane	6.33	83	12442	0.686	ug/L #	16
37) 1,2-Dichloropropane	6.33	63	6709	0.568	ug/L #	92
39) cis-1,3-Dichloropropene	7.22	75	1337	0.084	ug/L #	29
42) Toluene	7.64	91	2664	0.061	ug/L	81
45) 1,1,2-Trichloroethane	8.04	97	993	0.139	ug/L #	14
47) Tetrachloroethene	8.23	164	728	0.085	ug/L #	60
48) 2-Hexanone	8.38	43	1668	0.288	ug/L #	75
49) Dibromochloromethane	8.24	129	564	0.074	ug/L #	11

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 15 06:14:20 2018
Response via : Initial Calibration

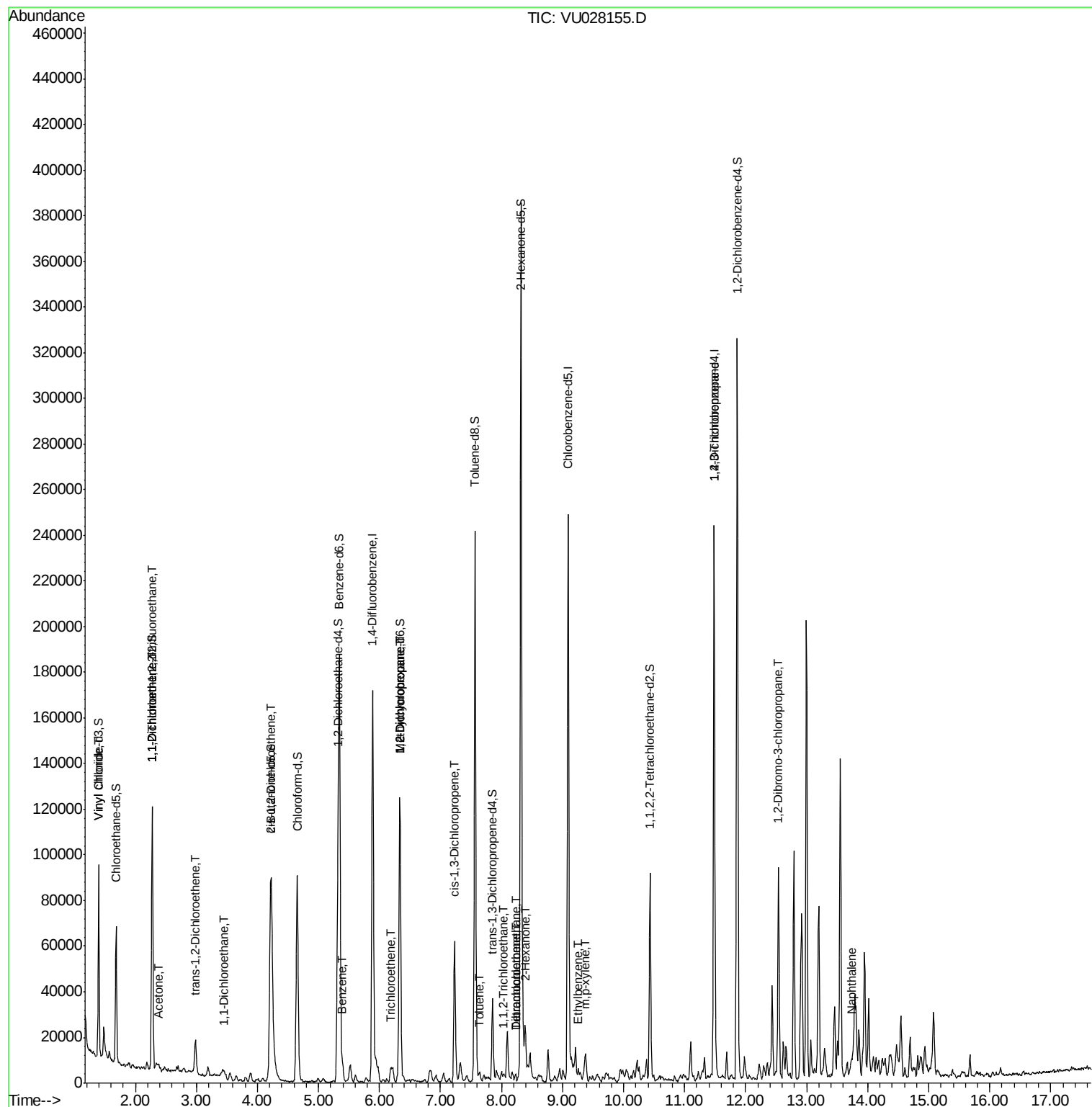
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.25	91	3174	0.066	ug/L	87
53) m,p-xylene	9.38	106	1891	0.108	ug/L	100
59) 1,2,3-Trichloropropane	11.48	75	8877	1.339	ug/L	91
66) 1,2-Dibromo-3-chloropropan	12.54	75	690	0.532	ug/L #	3
69) Naphthalene	13.73	128	1544	0.066	ug/L #	75

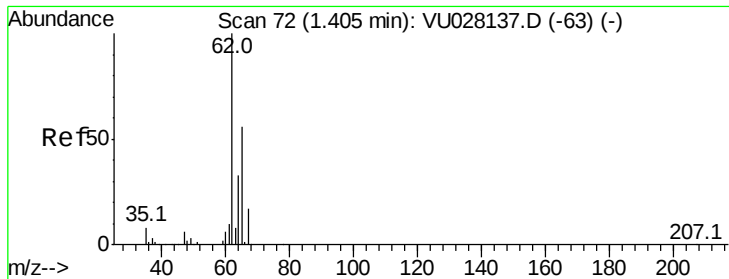
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.534 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

Instrument :

MSVOA_U

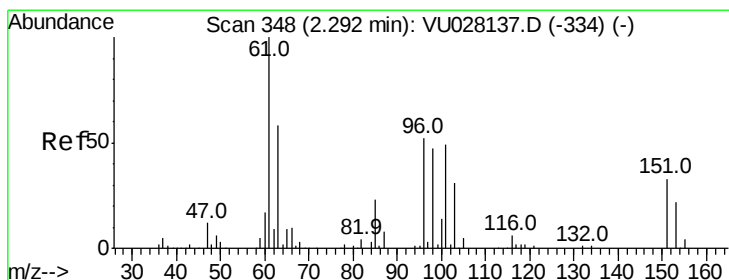
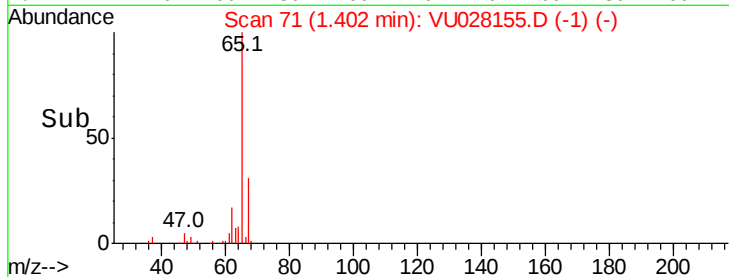
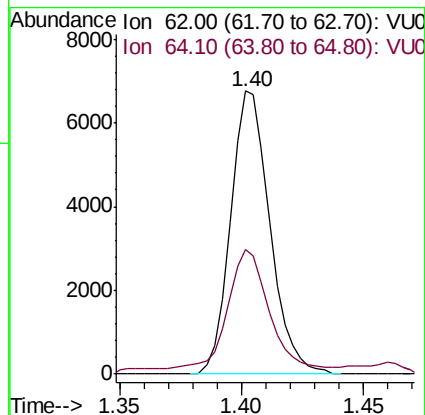
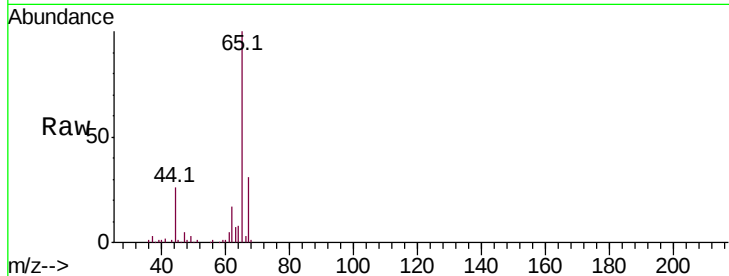
ClientSampleId :

Tot Ion: 62 Resp: 7543

Ion Ratio Lower Upper

62 100

64 44.0 22.7 42.3#



#10

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

Concen: 0.050 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

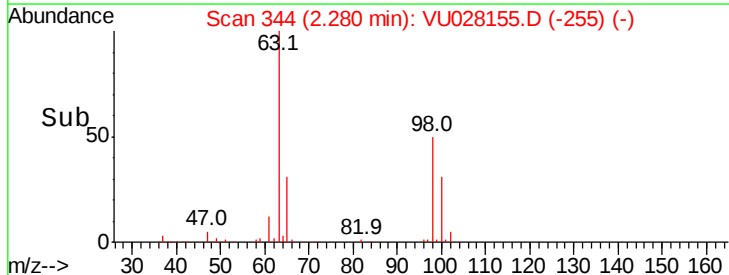
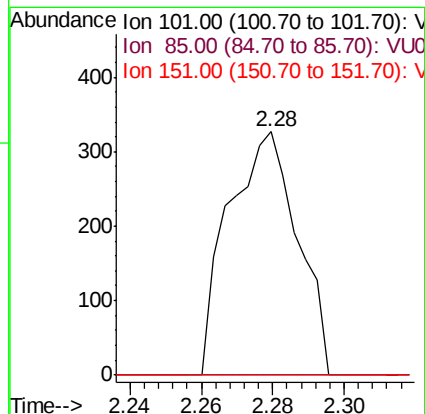
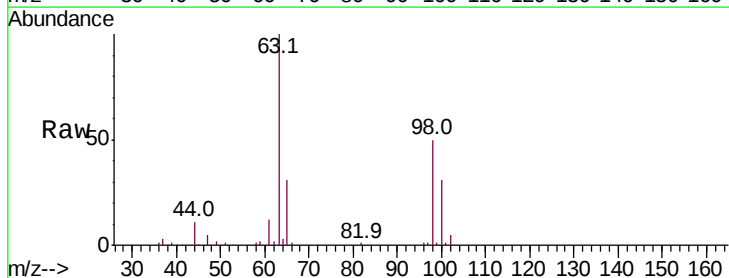
Tgt Ion: 101 Resp: 435

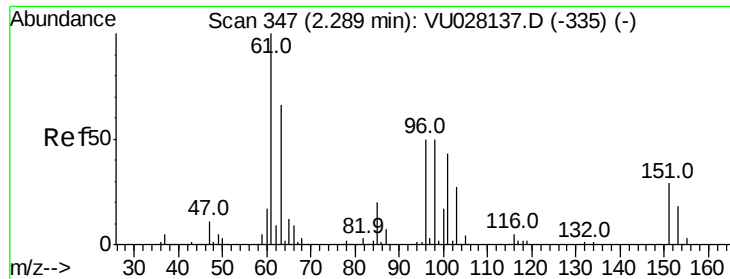
Ion Ratio Lower Upper

101 100

85 15.9 37.6 56.4#

151 0.0 58.2 87.2#





#12

1,1-Dichloroethene

Concen: 0.061 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

Instrument :
MSVOA_U
ClientSampleId :

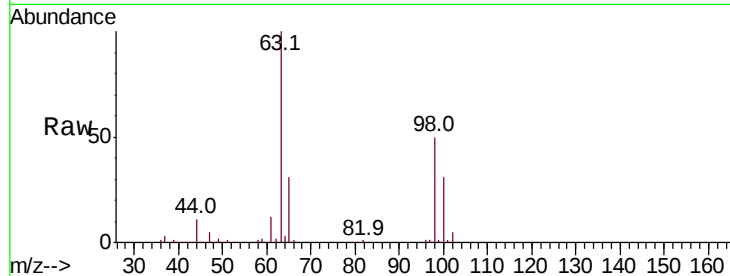
Tot Ion: 96 Resp: 537

Ion Ratio Lower Upper

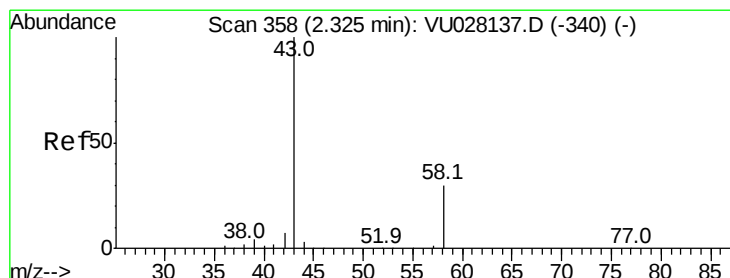
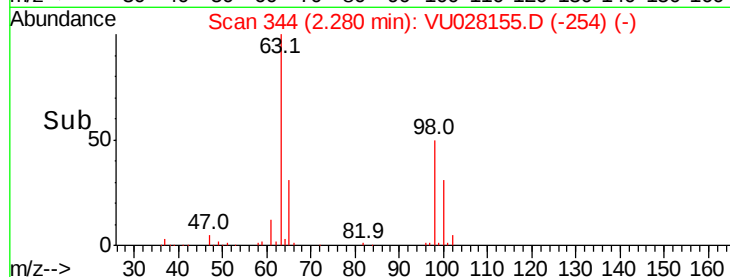
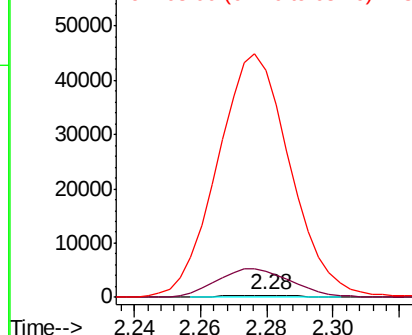
96 100

61 1347.4 134.8 250.3#

63 11661.3 100.1 185.9#



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: 2.492 ug/L

RT: 2.37 min Scan# 371

Delta R.T. 0.04 min

Lab File: VU028155.D

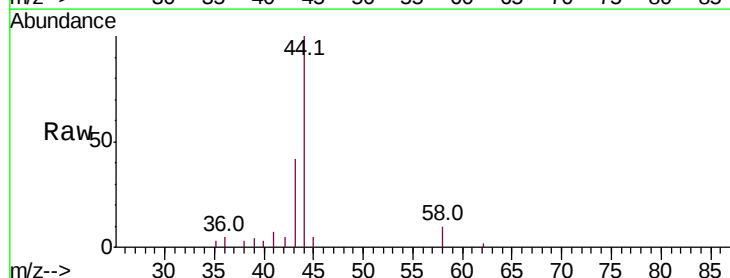
Acq: 15 Nov 2018 05:40

Tgt Ion: 43 Resp: 5328

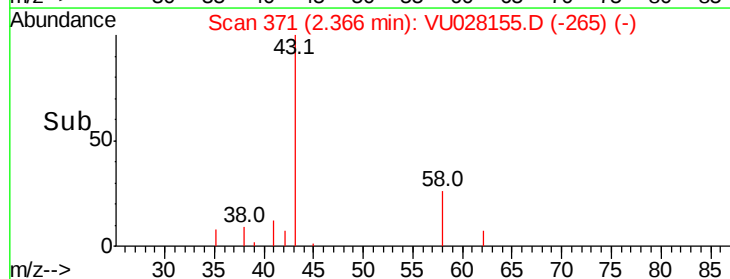
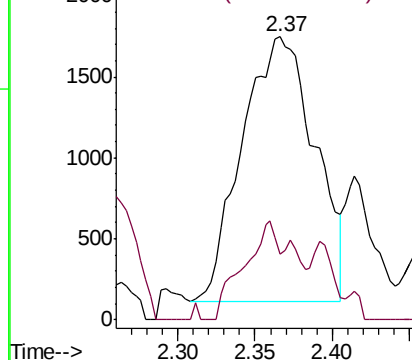
Ion Ratio Lower Upper

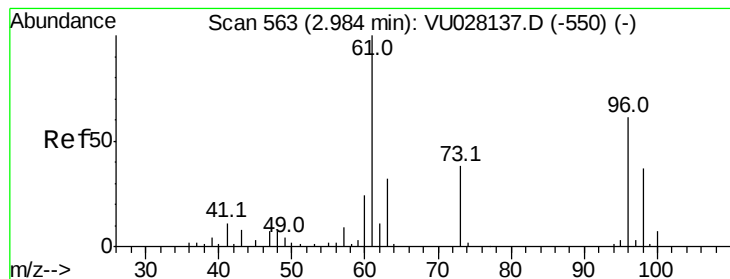
43 100

58 17.8 0.0 61.6



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





#18

trans-1,2-Dichloroethene

Concen: 0.476 ug/L

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

Instrument :
MSVOA_U
ClientSampleId :

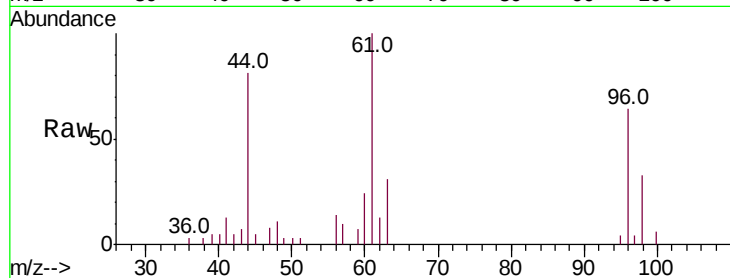
Tot Ion: 96 Resp: 4437

Ion Ratio Lower Upper

96 100

61 157.2 118.5 220.1

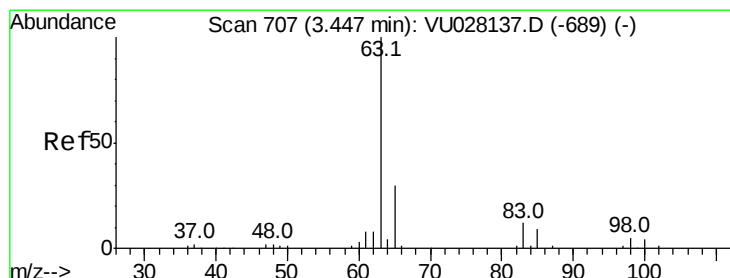
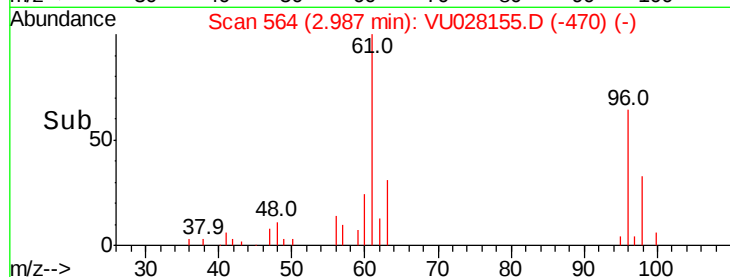
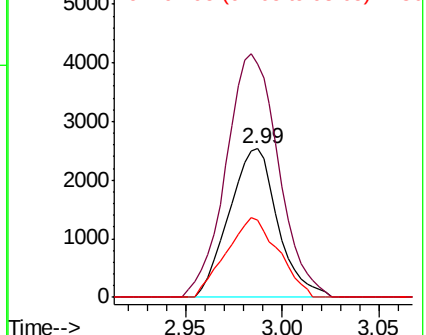
98 51.8 44.9 83.5



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: 0.129 ug/L

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

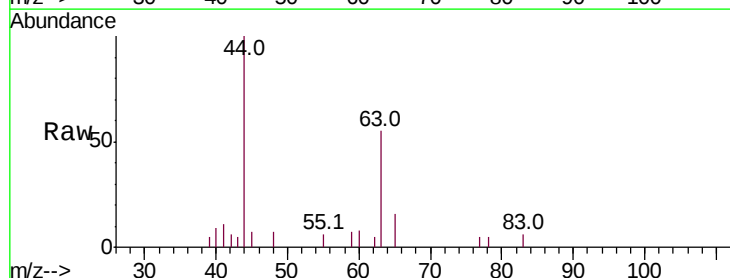
Tgt Ion: 63 Resp: 2538

Ion Ratio Lower Upper

63 100

65 28.1 22.2 41.2

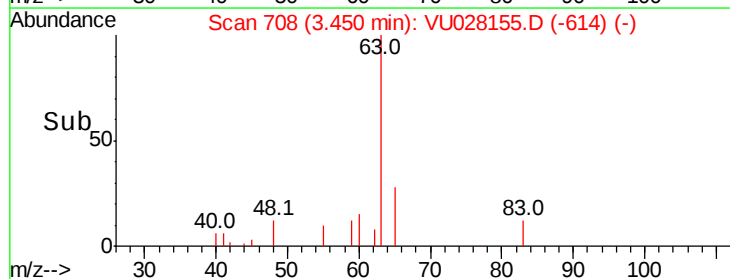
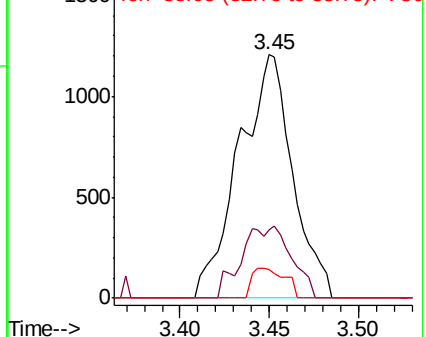
83 11.6 8.9 16.5

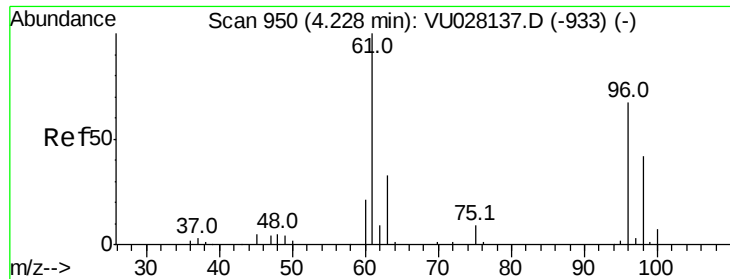


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 1.017 ug/L

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

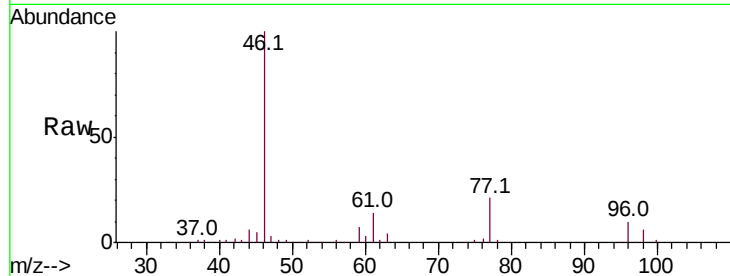
Tot Ion: 96 Resp: 10456

Ion Ratio Lower Upper

96 100

61 148.2 101.8 189.0

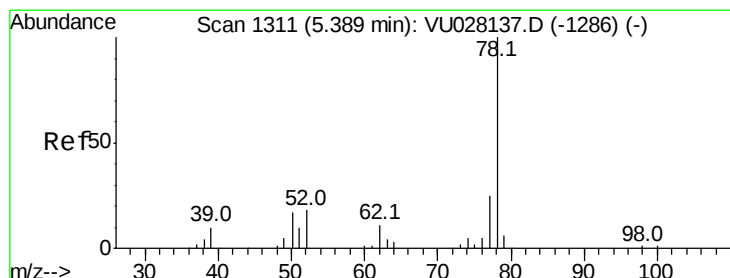
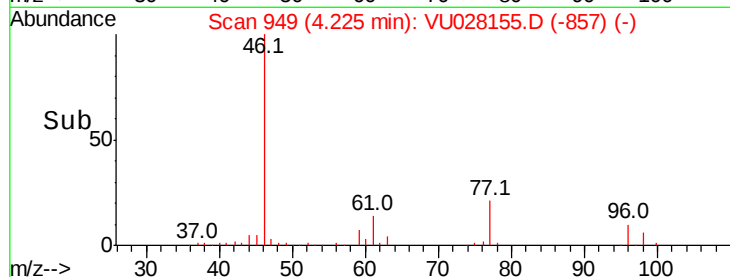
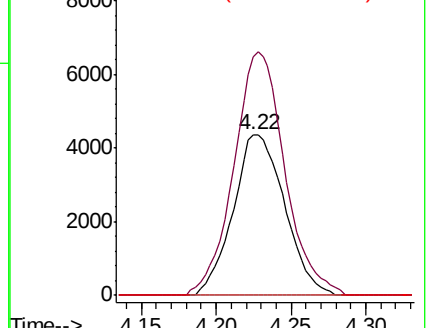
68 0.0 0.0 0.0



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



#33

Benzene

Concen: 0.162 ug/L

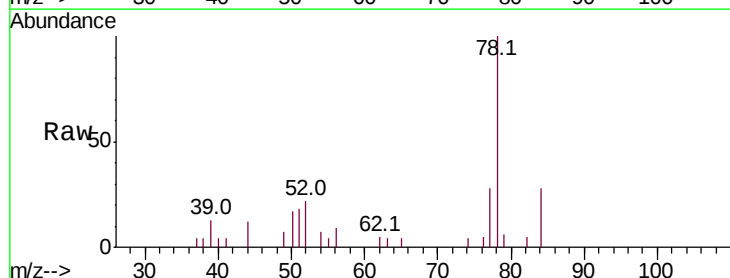
RT: 5.40 min Scan# 1313

Delta R.T. 0.01 min

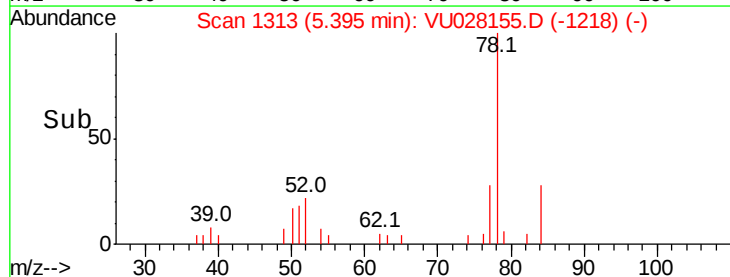
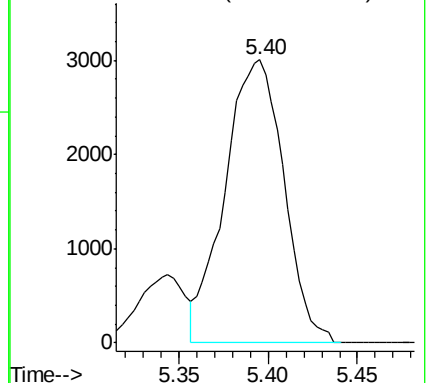
Lab File: VU028155.D

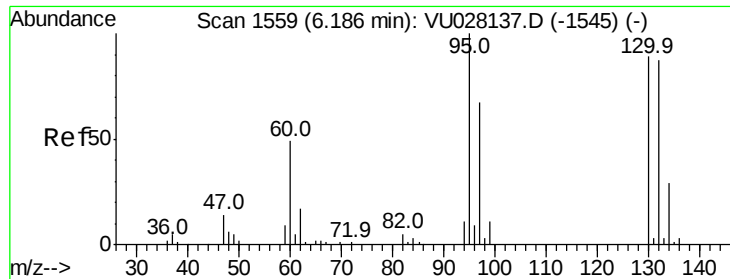
Acq: 15 Nov 2018 05:40

Tgt Ion: 78 Resp: 6912



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.189 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 1996

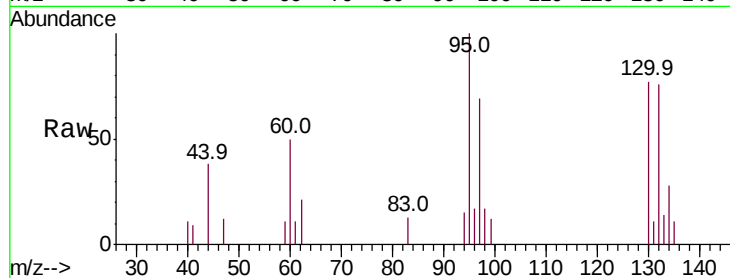
Ion Ratio Lower Upper

95 100

97 68.8 45.3 84.1

132 75.8 63.0 117.0

130 77.2 63.6 118.2

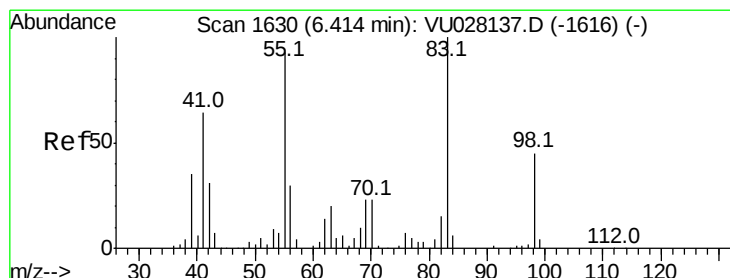
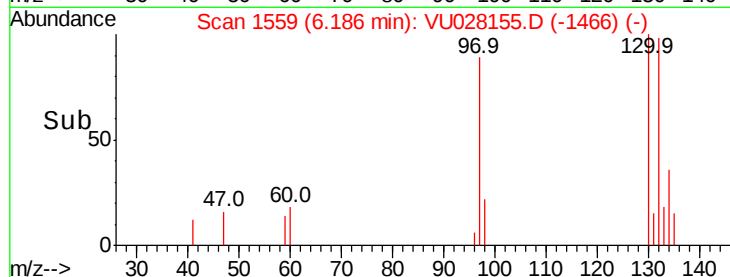
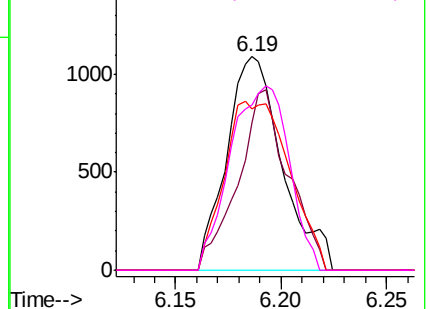


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.686 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

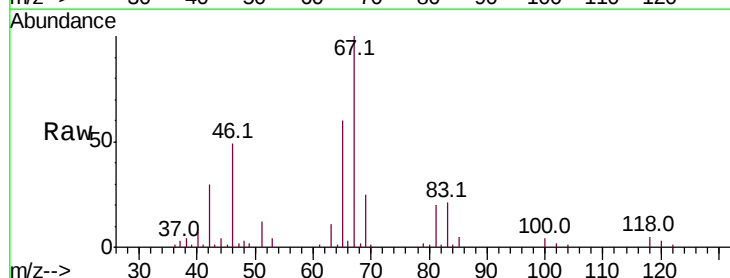
Tgt Ion: 83 Resp: 12442

Ion Ratio Lower Upper

83 100

55 1.4 69.0 103.4#

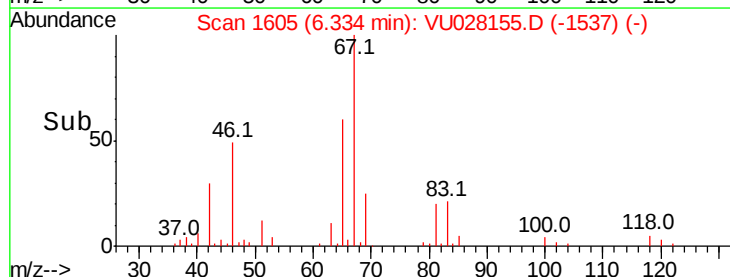
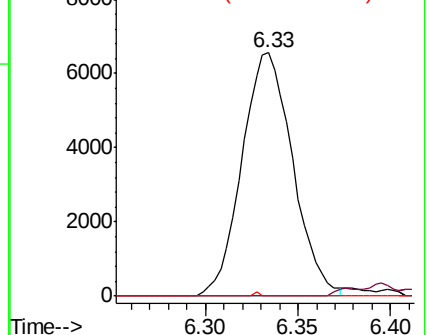
98 0.2 33.3 49.9#

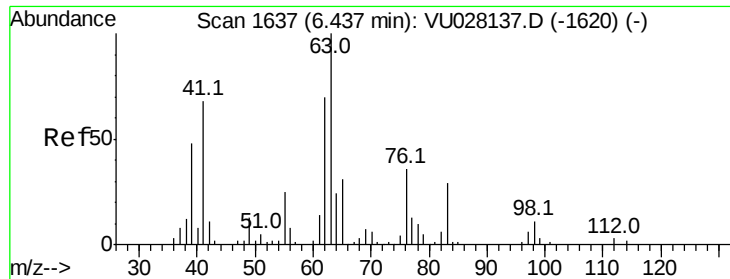


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

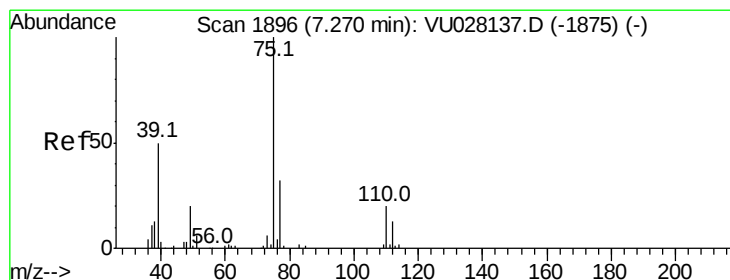
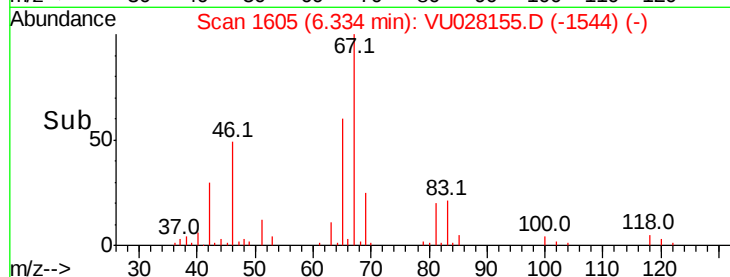
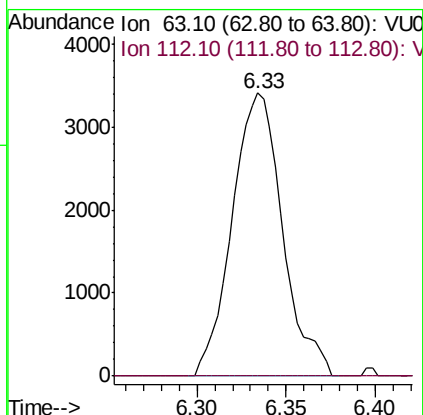
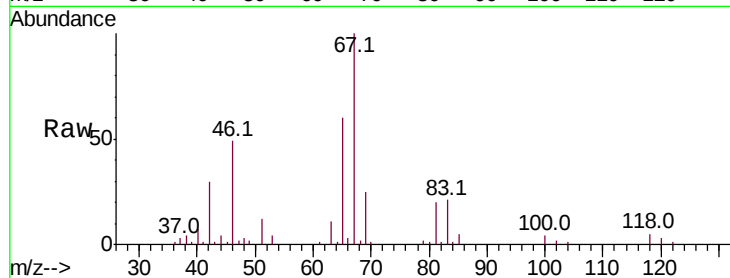




#37
 1,2-Dichloropropane
 Concen: 0.568 ug/L
 RT: 6.33 min Scan# 1605
 Delta R.T. -0.10 min
 Lab File: VU028155.D
 Acq: 15 Nov 2018 05:40

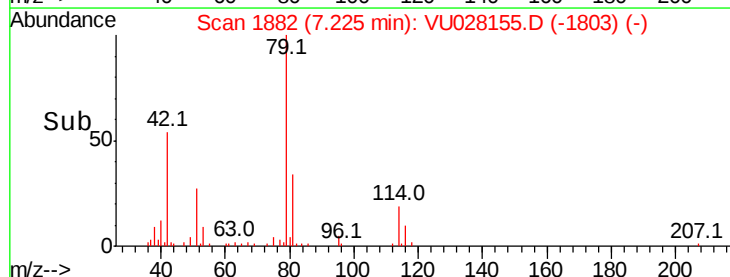
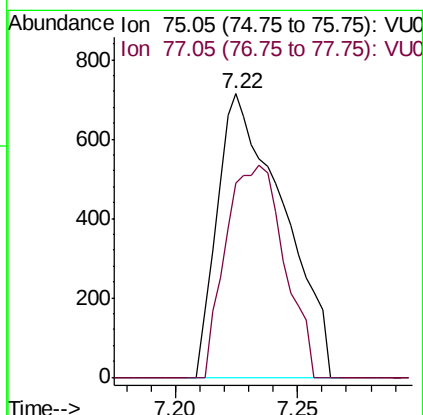
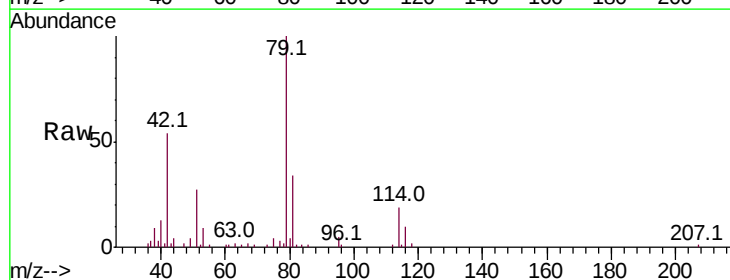
Instrument :
 MSVOA_U
 ClientSampleId :

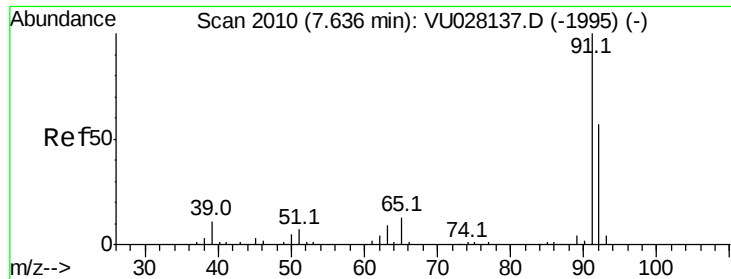
Tot Ion: 63 Resp: 6709
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.2 3.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.22 min Scan# 1882
 Delta R.T. -0.04 min
 Lab File: VU028155.D
 Acq: 15 Nov 2018 05:40

Tgt Ion: 75 Resp: 1337
 Ion Ratio Lower Upper
 75 100
 77 68.3 20.9 38.9#





#42

Toluene

Concen: 0.061 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.01 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

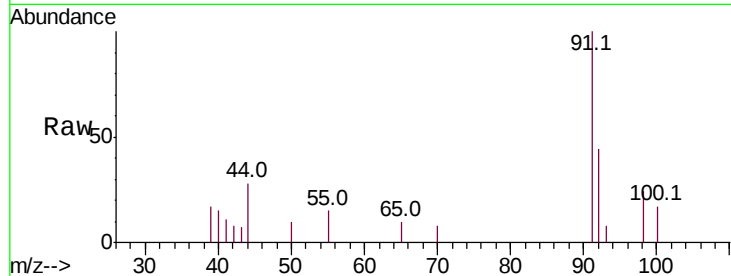
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 2664

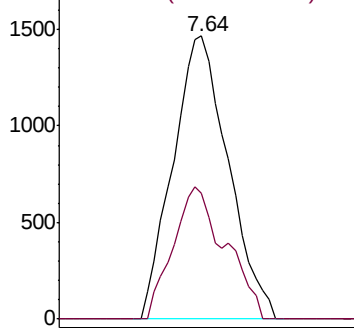
Ion Ratio Lower Upper

91 100

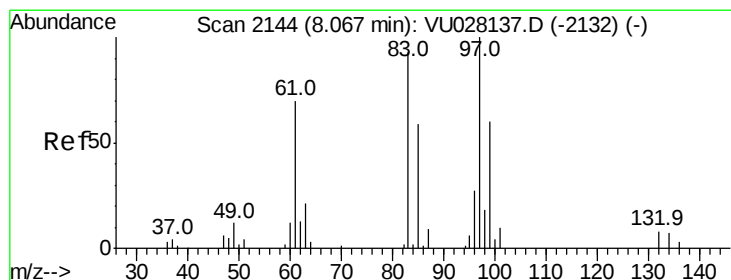
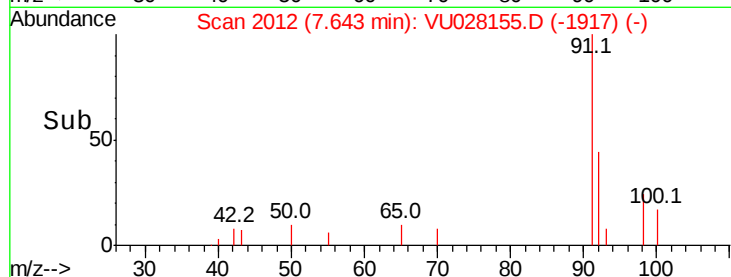
92 44.3 40.7 75.7



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



Time-->



#45

1,1,2-Trichloroethane

Concen: 0.139 ug/L

RT: 8.04 min Scan# 2136

Delta R.T. -0.03 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

Tgt Ion: 97 Resp: 993

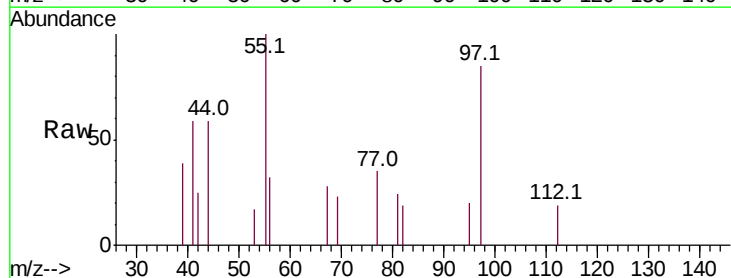
Ion Ratio Lower Upper

97 100

99 0.0 42.1 78.1#

83 0.0 63.7 118.3#

85 0.0 40.6 75.4#

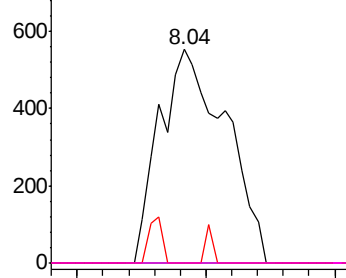


Abundance Ion 96.95 (96.65 to 97.65): VU0

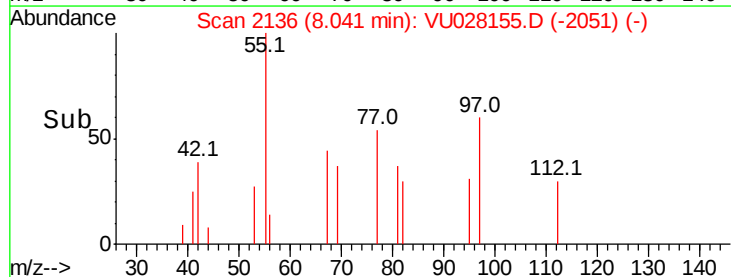
Ion 99.05 (98.75 to 99.75): VU0

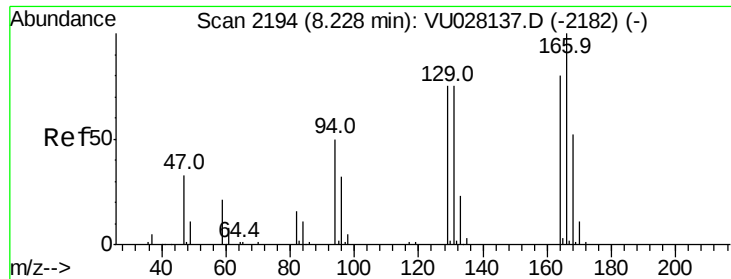
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



Time-->

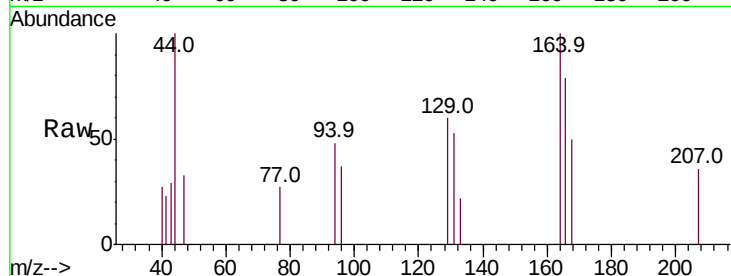




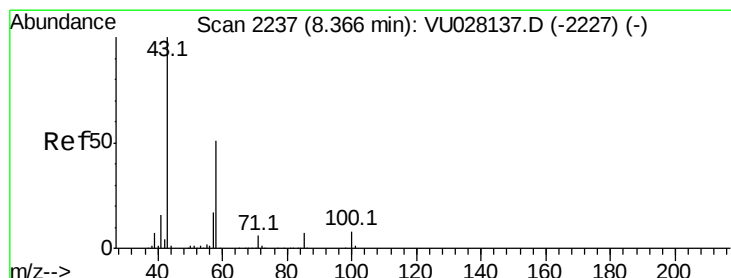
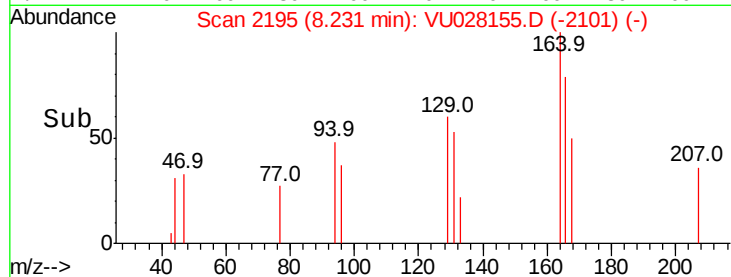
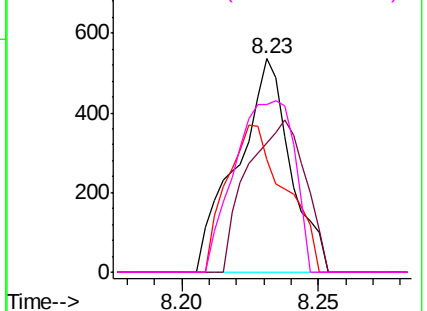
#47
Tetrachloroethene
Concen: 0.085 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028155.D
Acq: 15 Nov 2018 05:40

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 728
Ion Ratio Lower Upper
164 100
129 60.4 69.7 129.4#
131 53.0 64.0 118.8#
166 78.7 86.4 160.4#

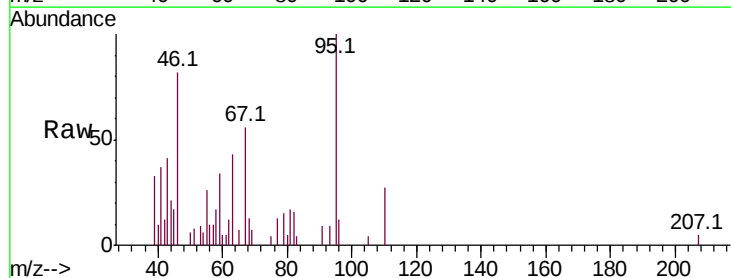


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

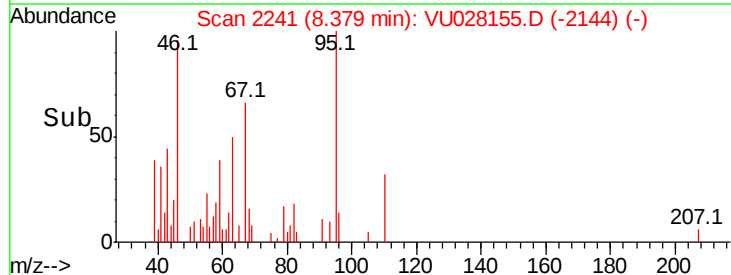
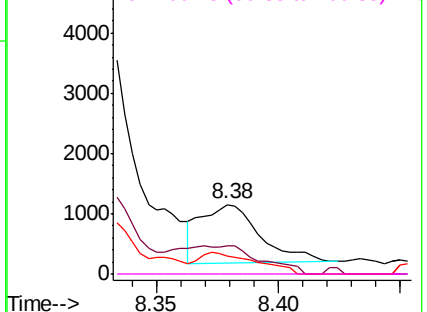


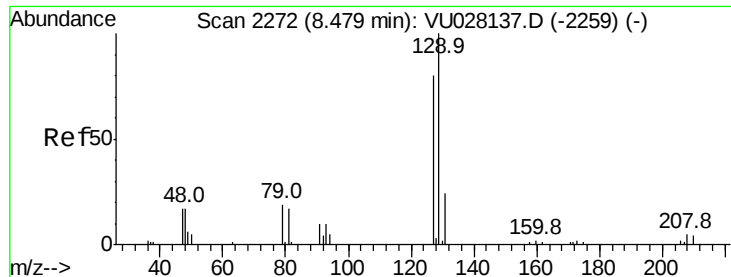
#48
2-Hexanone
Concen: 0.288 ug/L
RT: 8.38 min Scan# 2241
Delta R.T. 0.01 min
Lab File: VU028155.D
Acq: 15 Nov 2018 05:40

Tgt Ion: 43 Resp: 1668
Ion Ratio Lower Upper
43 100
58 66.4 41.7 62.5#
57 35.3 14.0 21.0#
100 0.0 7.2 10.8#



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: 0.074 ug/L

RT: 8.24 min Scan# 2197

Delta R.T. -0.24 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

Instrument :

MSVOA_U

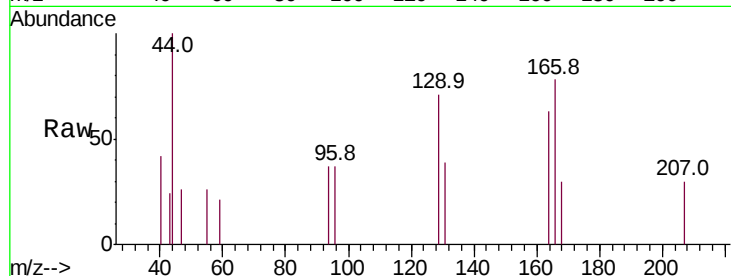
ClientSampled :

Tot Ion:129 Resp: 564

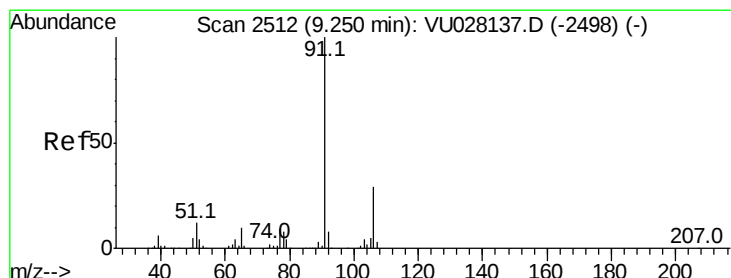
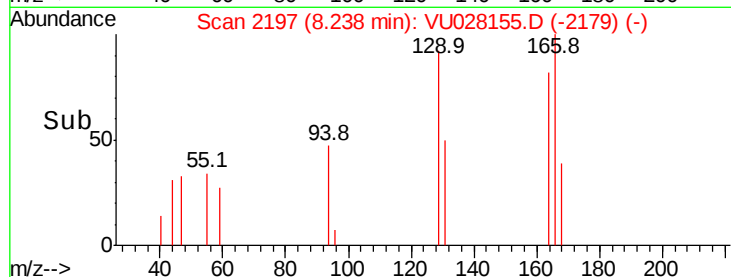
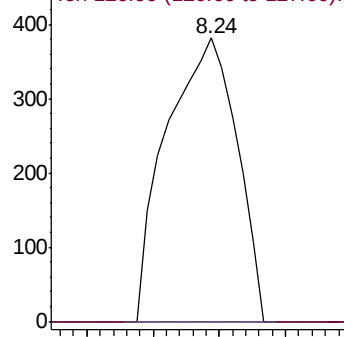
Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V



#52

Ethylbenzene

Concen: 0.066 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU028155.D

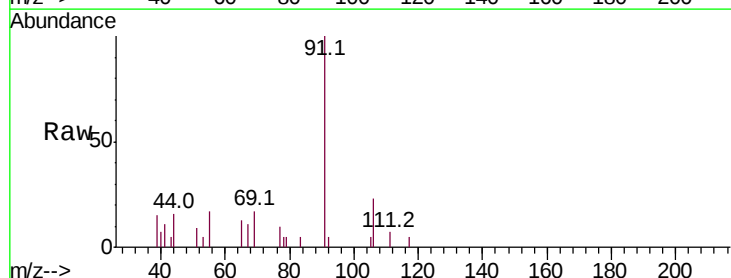
Acq: 15 Nov 2018 05:40

Tgt Ion: 91 Resp: 3174

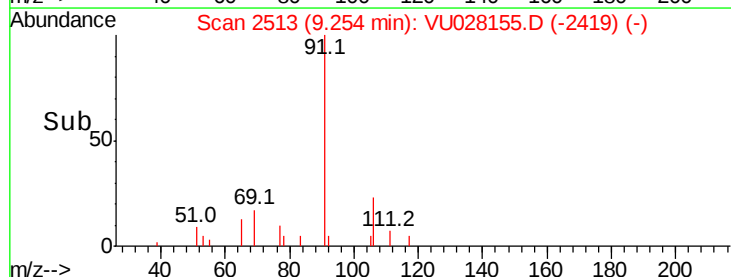
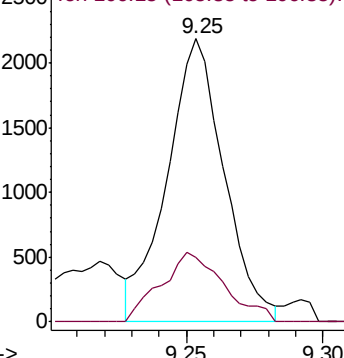
Ion Ratio Lower Upper

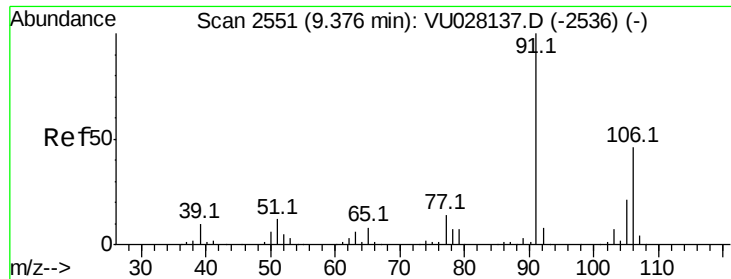
91 100

106 22.6 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU0





#53

m,p-xylene

Concen: 0.108 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028155.D

Acq: 15 Nov 2018 05:40

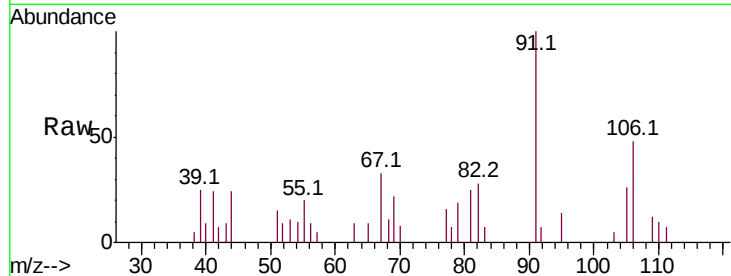
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 1891

Ion Ratio Lower Upper

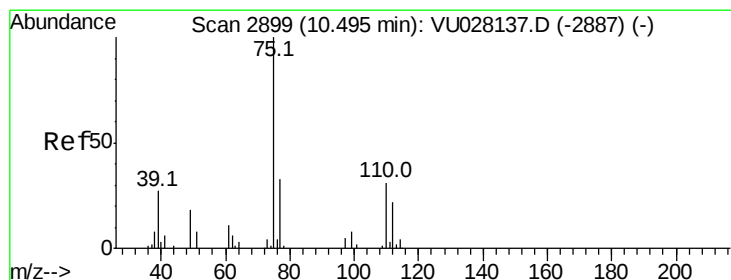
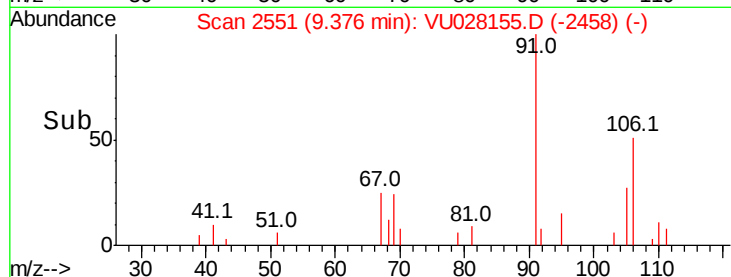
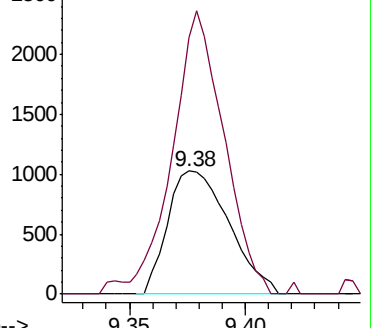
106 100

91 208.2 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): VU028137.D (-2536) (-)

Ion 91.15 (90.85 to 91.85): VU028137.D (-2536) (-)



#59

1,2,3-Trichloropropane

Concen: 1.339 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028155.D

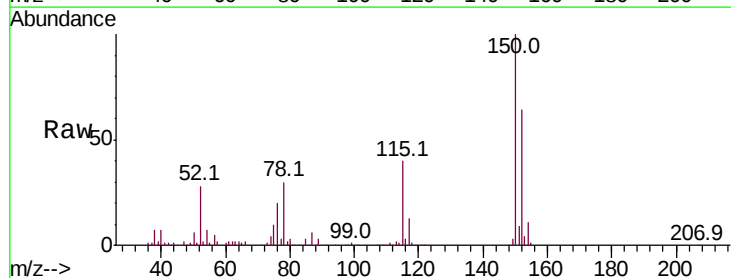
Acq: 15 Nov 2018 05:40

Tgt Ion: 75 Resp: 8877

Ion Ratio Lower Upper

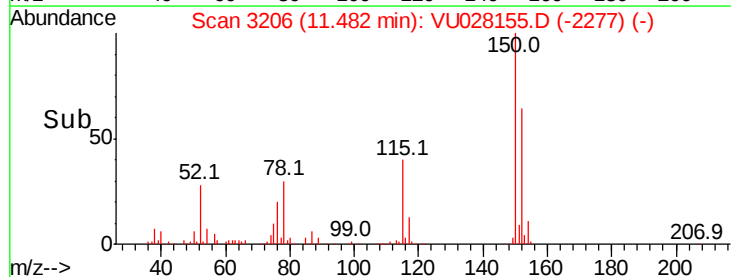
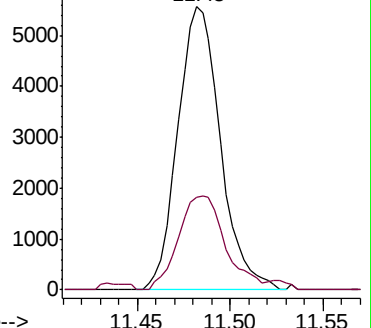
75 100

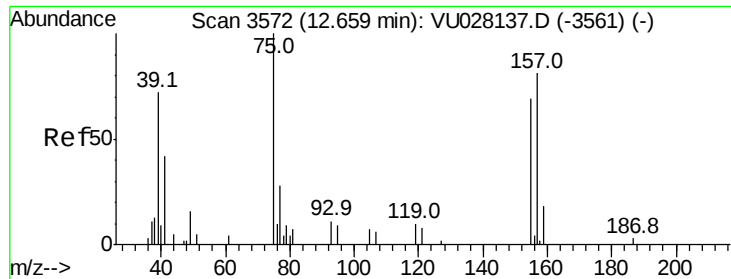
77 36.8 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU028137.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU028137.D (-2887) (-)

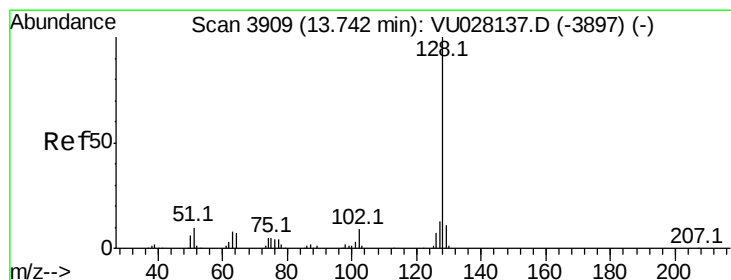
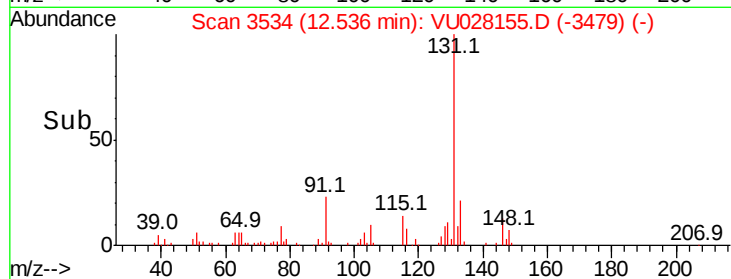
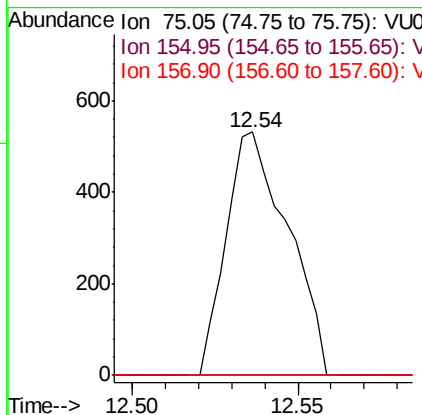
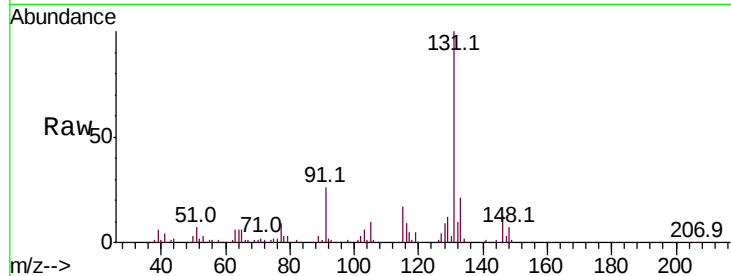




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.532 ug/L
 RT: 12.54 min Scan# 3534
 Delta R.T. -0.12 min
 Lab File: VU028155.D
 Acq: 15 Nov 2018 05:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 690
 Ion Ratio Lower Upper
 75 100
 155 0.0 62.8 94.2#
 157 0.0 85.3 127.9#



#69
 Naphthalene
 Concen: 0.066 ug/L
 RT: 13.73 min Scan# 3906
 Delta R.T. -0.01 min
 Lab File: VU028155.D
 Acq: 15 Nov 2018 05:40

Tgt Ion: 128 Resp: 1544
 Ion Ratio Lower Upper
 128 100
 129 0.0 8.5 12.7#
 127 21.9 10.2 15.4#

