

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112018\
 Data File : VU028298.D
 Acq On : 20 Nov 2018 23:19
 Operator : MD/SY
 Sample : J5986-21
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 07:13:03 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	5.88	114	229	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.29	117	126078	5.00	ug/L	0.20
60) 1,4-Dichlorobenzene-d4	11.54	152	60340	5.00	ug/L	0.05

System Monitoring Compounds

4) Vinyl Chloride-d3	1.51	65	167	9.69	ug/L	0.12
Spiked Amount	5.000	Range	40 - 130	Recovery	=	193.80%#
7) Chloroethane-d5	1.67	69	225	15.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	302.40%#
11) 1,1-Dichloroethene-d2	2.34	63	8094	236.06	ug/L	0.06
Spiked Amount	5.000	Range	60 - 125	Recovery	=	4721.20%#
20) 2-Butanone-d5	4.17	46	19452	3373.19	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	6746.38%#
24) Chloroform-d	4.66	84	176	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.40%
26) 1,2-Dichloroethane-d4	5.39	65	233	13.11	ug/L	0.08
Spiked Amount	5.000	Range	70 - 130	Recovery	=	262.20%#
32) Benzene-d6	5.61	84	89439	2.46	ug/L	0.27
Spiked Amount	5.000	Range	70 - 125	Recovery	=	49.20%#
36) 1,2-Dichloropropane-d6	6.13	67	31372	2.38	ug/L	-0.20
Spiked Amount	5.000	Range	60 - 140	Recovery	=	47.60%#
41) Toluene-d8	7.57	98	83	0.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	0.00%#
43) trans-1,3-Dichloropropene-	7.67	79	36139	8.59	ug/L	-0.19
Spiked Amount	5.000	Range	55 - 130	Recovery	=	171.80%#
46) 2-Hexanone-d5	8.58	63	137520	54.47	ug/L	0.26
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.94%
57) 1,1,2,2-Tetrachloroethane-	10.52	84	49535	5.21	ug/L	0.08
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.20%
64) 1,2-Dichlorobenzene-d4	11.90	152	48706	4.34	ug/L	0.04
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.80%

Target Compounds

					Ovalue
3) Chloromethane	1.50	50	212	8.662	ug/L # 61
5) Vinyl chloride	1.51	62	194	8.347	ug/L # 1
6) Bromomethane	1.75	94	162	15.444	ug/L 76
8) Chloroethane	1.72	64	291	21.183	ug/L 90
9) Trichlorofluoromethane	1.94	101	1624	59.998	ug/L # 66
10) 1,1,2-Trichloro-1,2,2-trif	2.34	101	6789	455.726	ug/L # 1
12) 1,1-Dichloroethene	2.29	96	270	19.151	ug/L # 11
13) Acetone	2.34	43	10776	2717.080	ug/L # 1
14) Carbon disulfide	2.34	76	11417	257.894	ug/L # 1
15) Methyl Acetate	2.69	43	16746	1593.031	ug/L # 59
16) Methylene chloride	2.70	84	107	6.024	ug/L # 66
17) Methyl tert-butyl Ether	3.01	73	185	4.368	ug/L # 1
18) trans-1,2-Dichloroethene	2.92	96	68	4.528	ug/L 81
19) 1,1-Dichloroethane	3.40	63	74	2.125	ug/L # 1
21) 2-Butanone	4.30	43	963	152.482	ug/L # 55
22) cis-1,2-Dichloroethene	4.16	96	23898	1346.295	ug/L # 9
23) Bromochloromethane	4.56	128	19	2.735	ug/L # 1

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QLast Update : Wed Nov 21 07:07:52 2018
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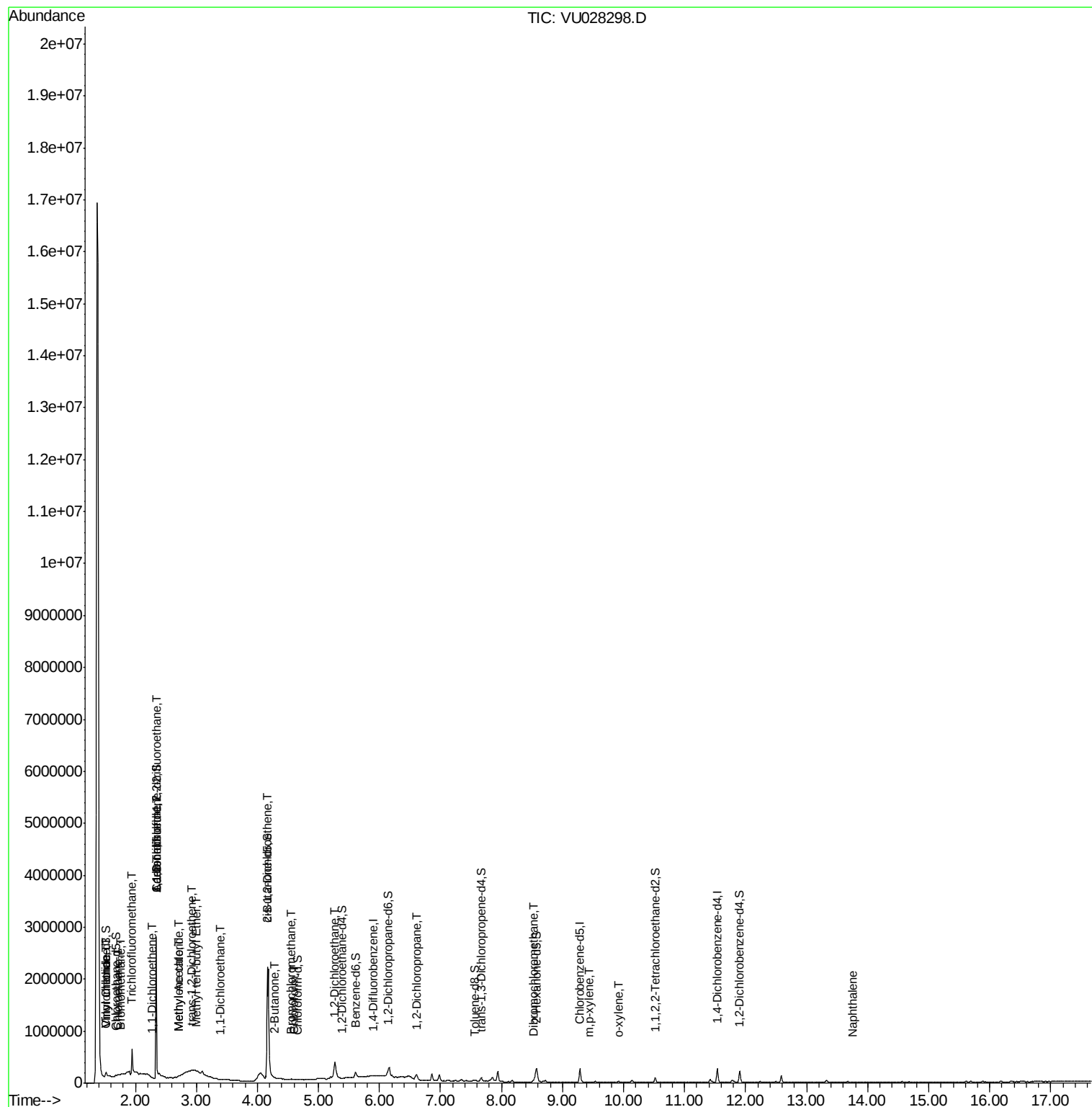
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.60	83	1233	32.720	ug/L	92
27) 1,2-Dichloroethane	5.27	62	20362	945.305	ug/L #	1
37) 1,2-Dichloropropane	6.60	63	32663	2.752	ug/L	99
49) Dibromochloromethane	8.51	129	2569	0.354	ug/L #	10
53) m,p-xylene	9.42	106	1290	0.082	ug/L	66
54) o-xylene	9.91	106	2493	0.159	ug/L	64
69) Naphthalene	13.75	128	2121	0.102	ug/L #	88

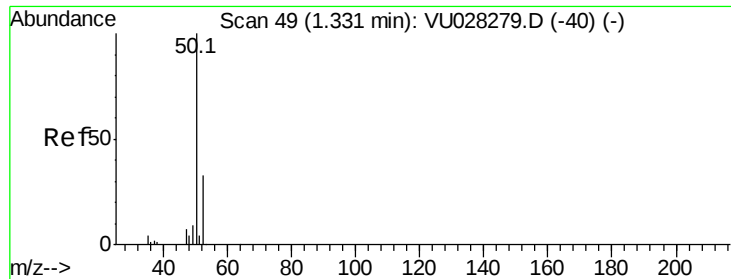
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 8.662 ug/L

RT: 1.50 min Scan# 102

Delta R.T. 0.17 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

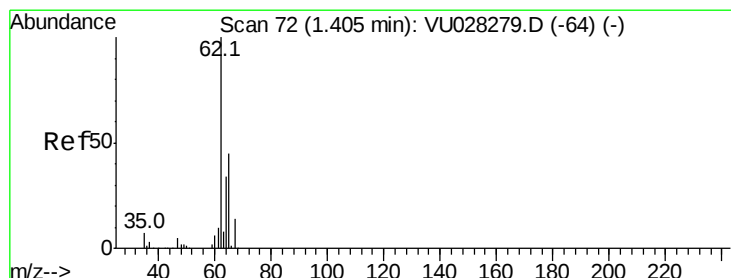
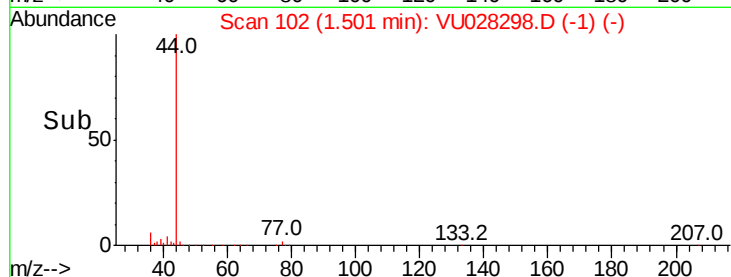
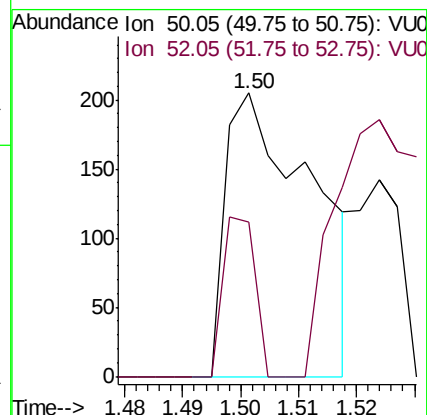
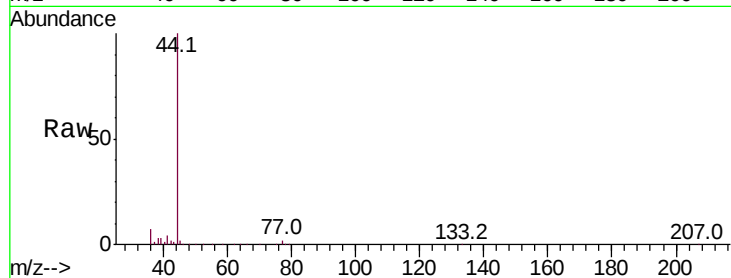
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 212

Ion Ratio Lower Upper

50 100

52 54.6 22.8 42.4#



#5

Vinyl chloride

Concen: 8.347 ug/L

RT: 1.51 min Scan# 106

Delta R.T. 0.11 min

Lab File: VU028298.D

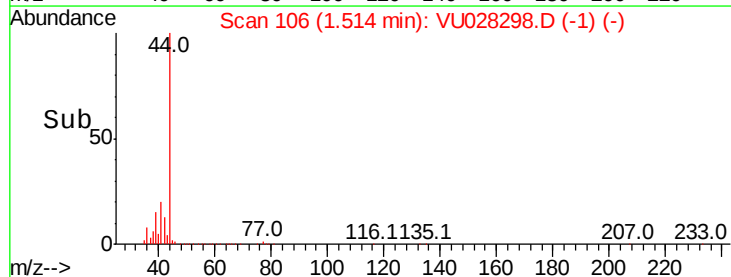
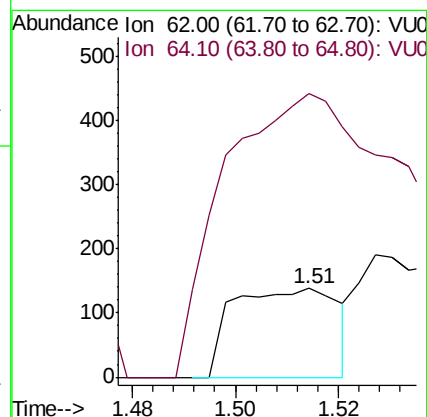
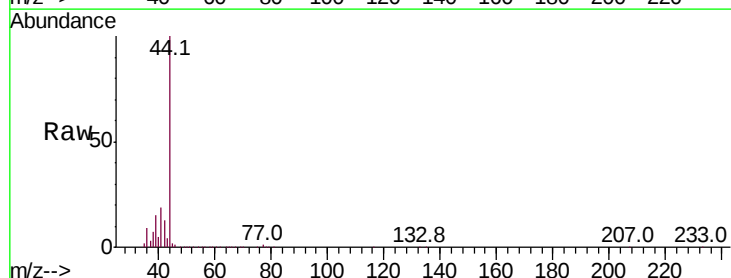
Acq: 20 Nov 2018 23:19

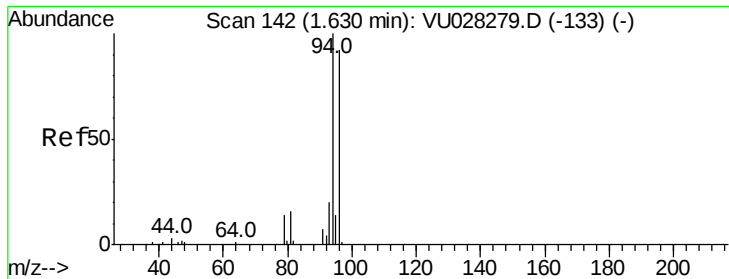
Tgt Ion: 62 Resp: 194

Ion Ratio Lower Upper

62 100

64 320.3 21.7 40.3#





#6

Bromomethane

Concen: 15.444 ug/L

RT: 1.75 min Scan# 179

Delta R.T. 0.12 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

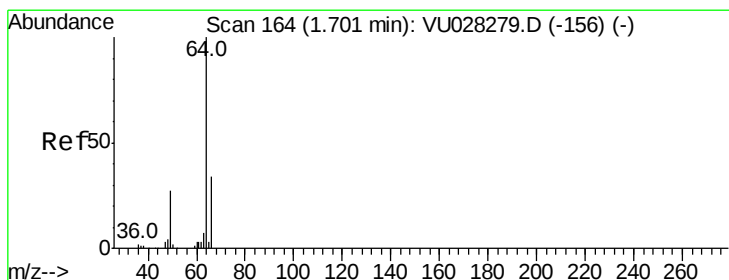
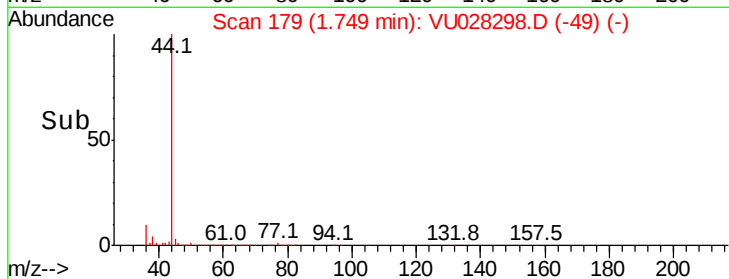
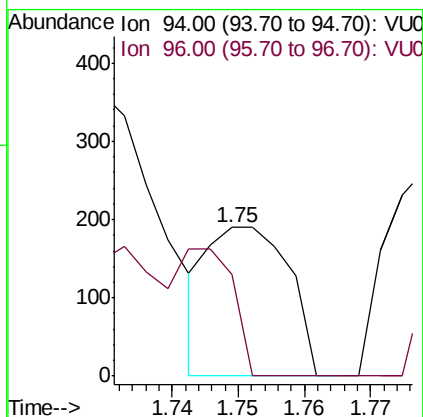
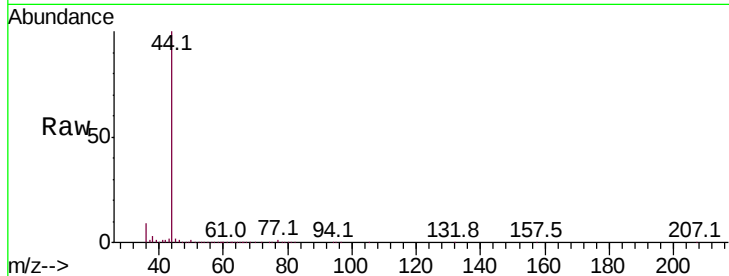
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 162

Ion Ratio Lower Upper

94 100

96 68.4 63.6 118.0



#8

Chloroethane

Concen: 21.183 ug/L

RT: 1.72 min Scan# 171

Delta R.T. 0.02 min

Lab File: VU028298.D

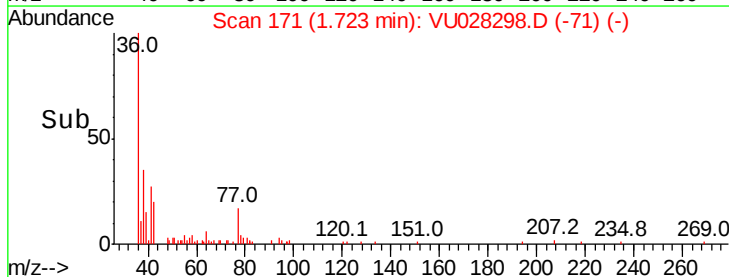
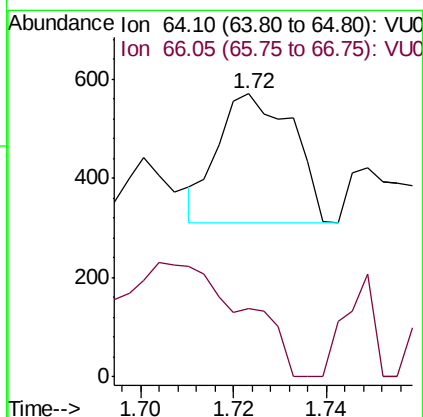
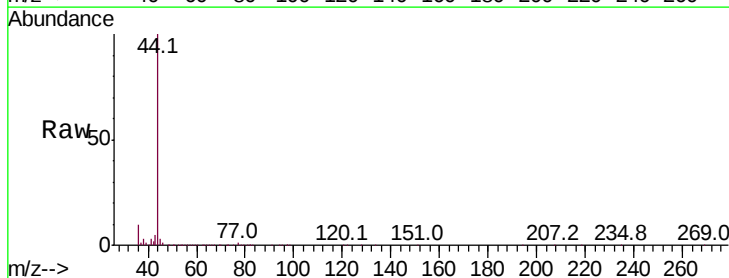
Acq: 20 Nov 2018 23:19

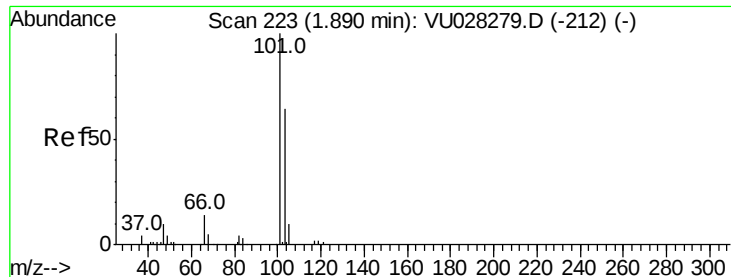
Tgt Ion: 64 Resp: 291

Ion Ratio Lower Upper

64 100

66 24.3 20.7 38.5



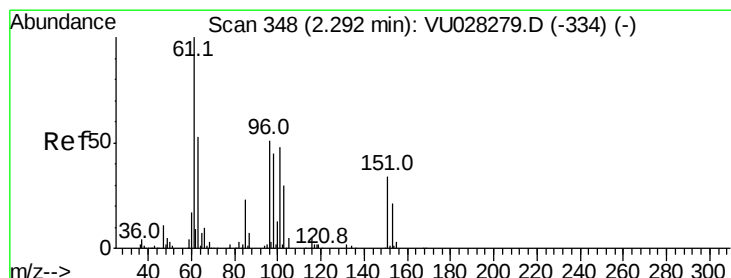
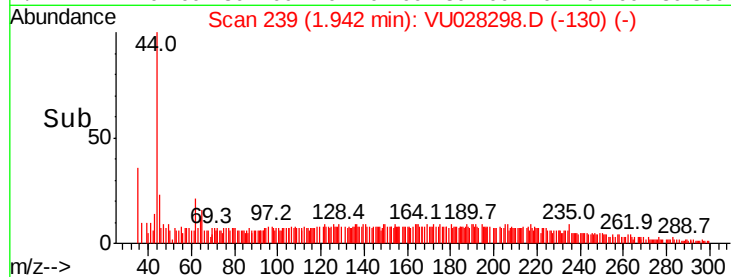
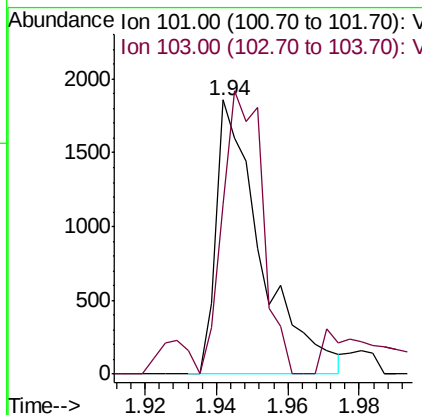
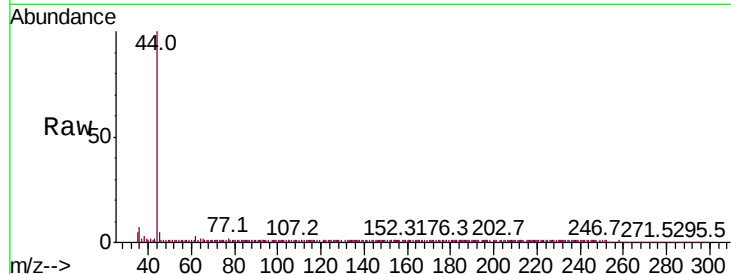


#9

Trichlorofluoromethane
Concen: 59.998 ug/L
RT: 1.94 min Scan# 239
Delta R.T. 0.05 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

Instrument :
MSVOA_U
ClientSampleId :

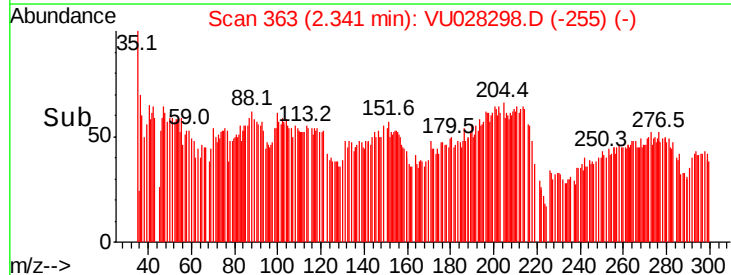
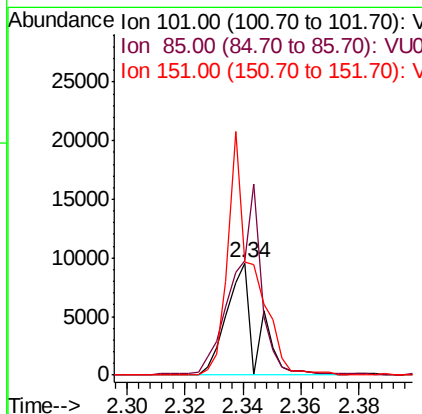
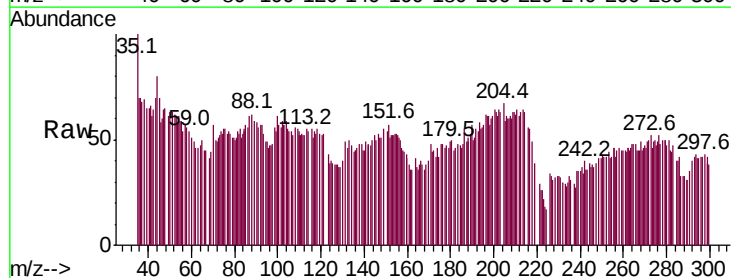
Tot Ion:101 Resp: 1624
Ion Ratio Lower Upper
101 100
103 91.2 51.7 77.5#

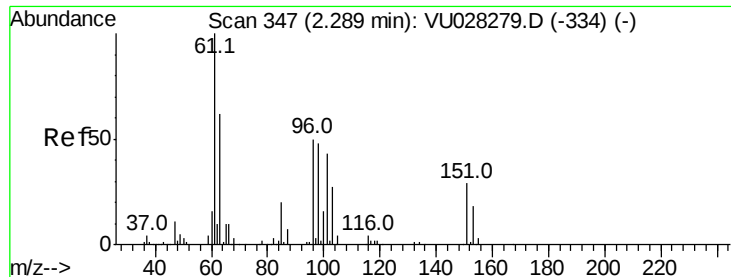


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 455.726 ug/L
RT: 2.34 min Scan# 363
Delta R.T. 0.05 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

Tgt Ion:101 Resp: 6789
Ion Ratio Lower Upper
101 100
85 156.2 37.4 56.2#
151 181.2 55.0 82.4#





#12

1,1-Dichloroethene

Concen: 19.151 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

Instrument :
MSVOA_U
ClientSampleId :

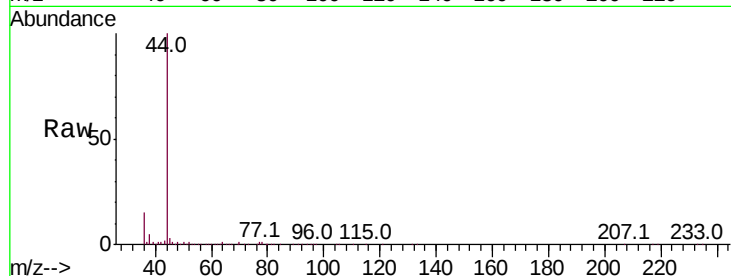
Tot Ion: 96 Resp: 270

Ion Ratio Lower Upper

96 100

61 52.0 145.5 270.1#

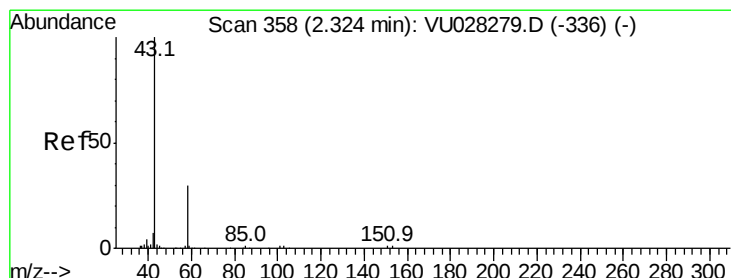
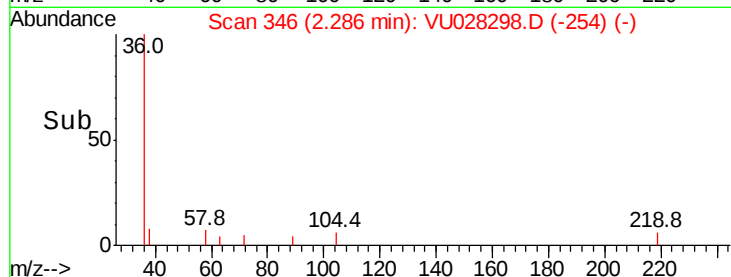
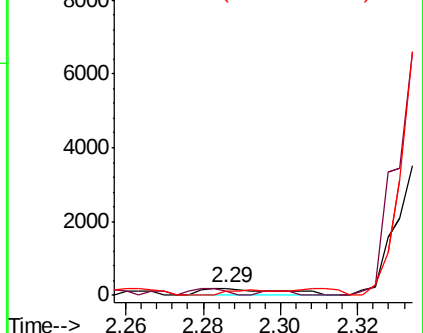
63 52.0 98.6 183.2#



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: 2717.080 ug/L

RT: 2.34 min Scan# 363

Delta R.T. 0.02 min

Lab File: VU028298.D

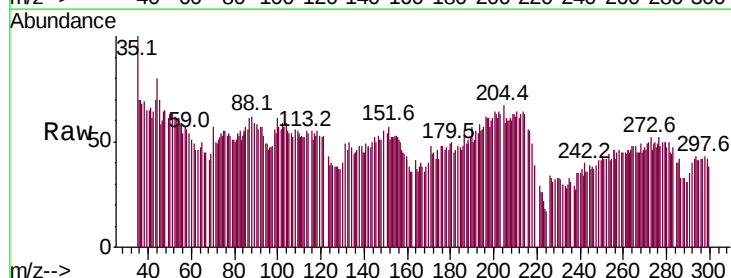
Acq: 20 Nov 2018 23:19

Tgt Ion: 43 Resp: 10776

Ion Ratio Lower Upper

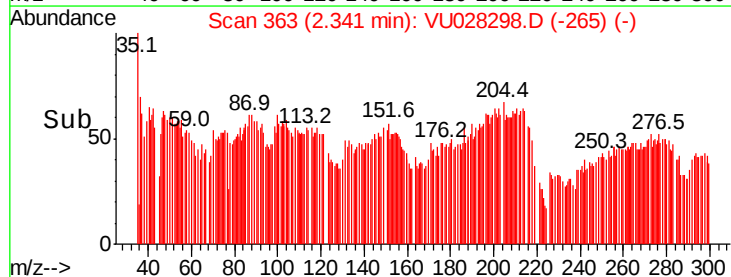
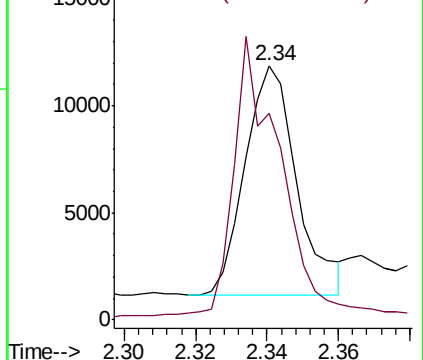
43 100

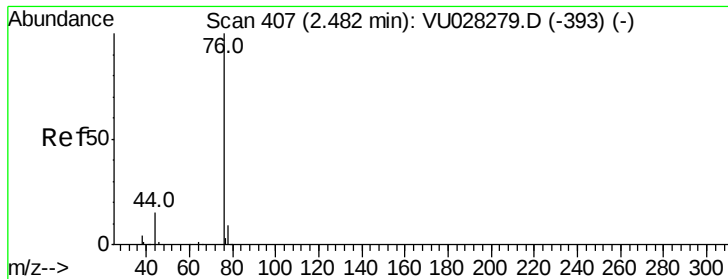
58 108.8 0.0 58.6#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

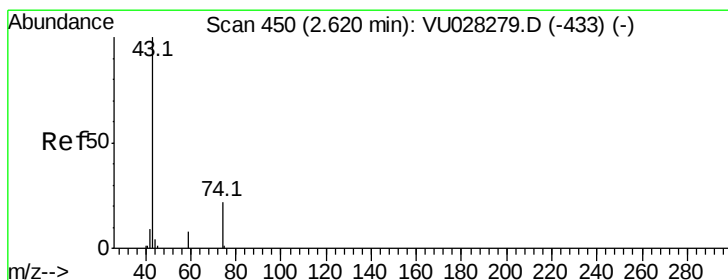
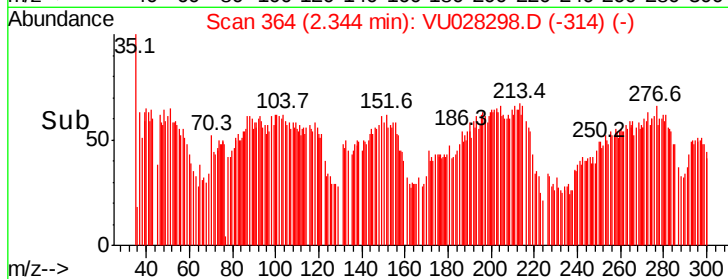
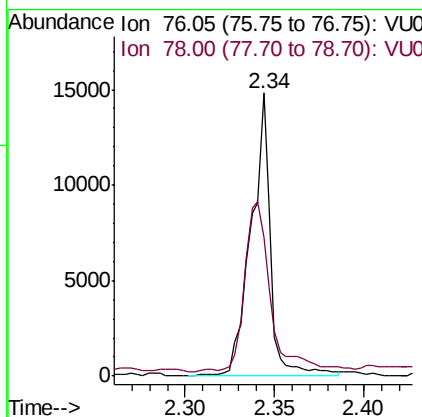
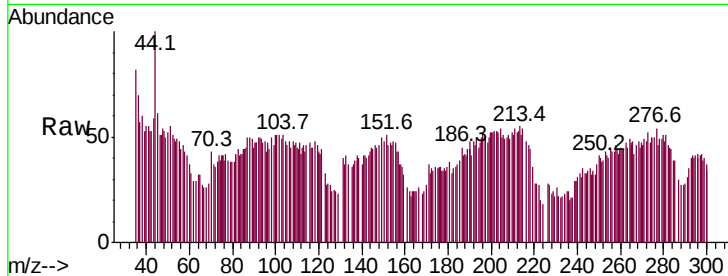




#14
Carbon disulfide
Concen: 257.894 ug/L
RT: 2.34 min Scan# 364
Delta R.T. -0.14 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

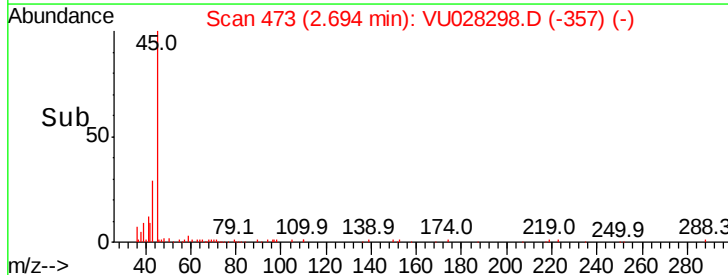
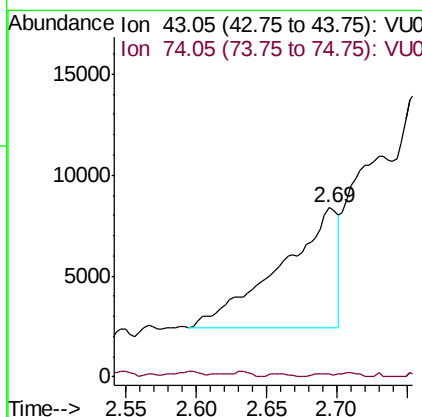
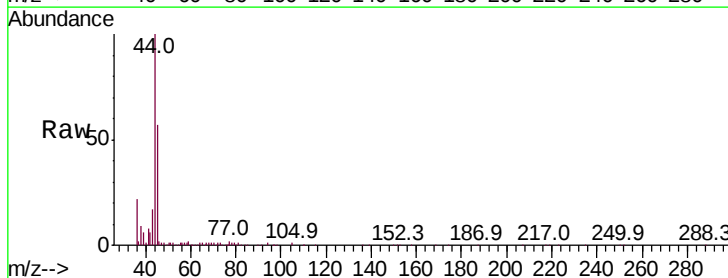
Instrument :
MSVOA_U
ClientSampled :

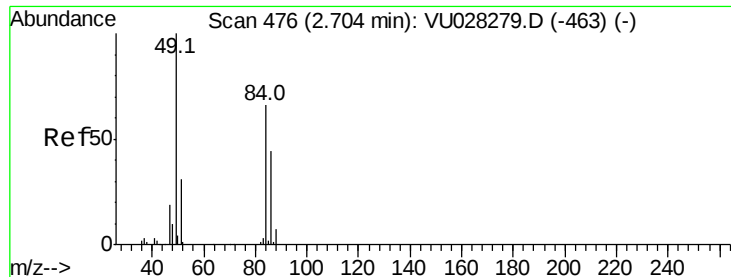
Tot Ion: 76 Resp: 11417
Ion Ratio Lower Upper
76 100
78 48.8 7.6 11.4#



#15
Methyl Acetate
Concen: 1593.031 ug/L
RT: 2.69 min Scan# 473
Delta R.T. 0.07 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

Tgt Ion: 43 Resp: 16746
Ion Ratio Lower Upper
43 100
74 0.0 14.7 22.1#

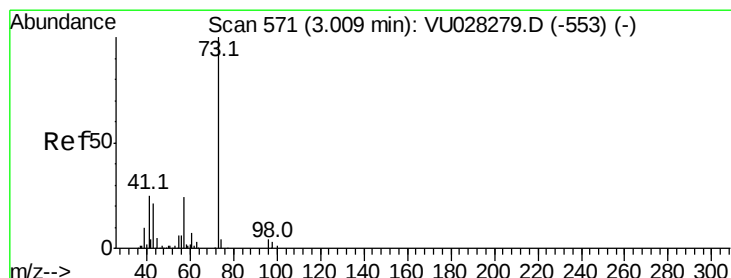
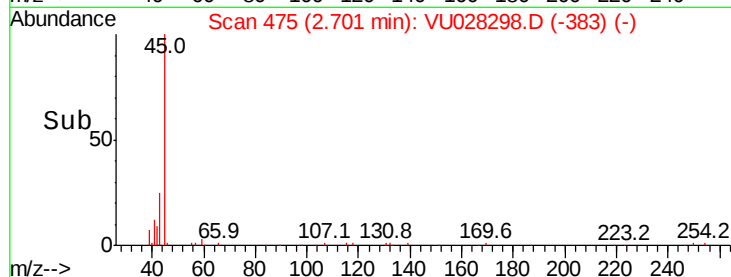
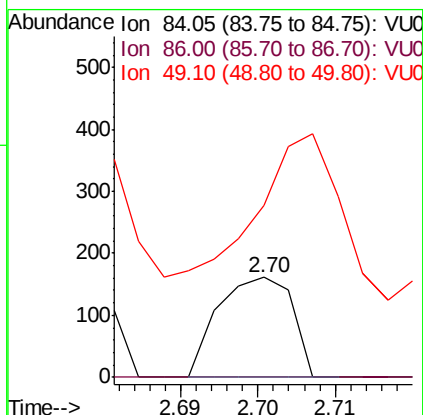
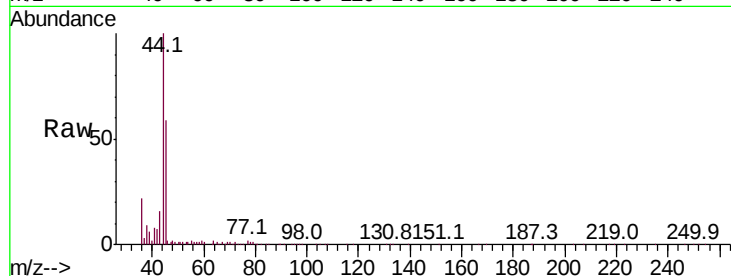




#16
Methylene chloride
Concen: 6.024 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

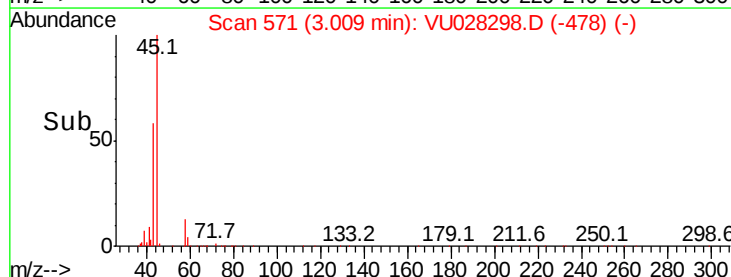
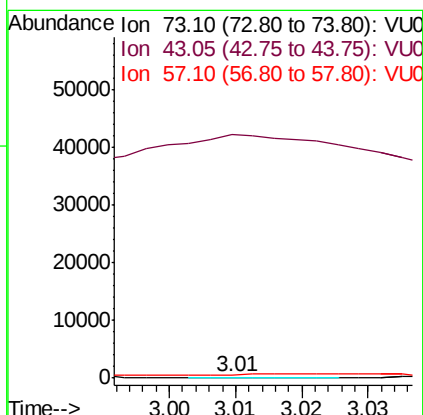
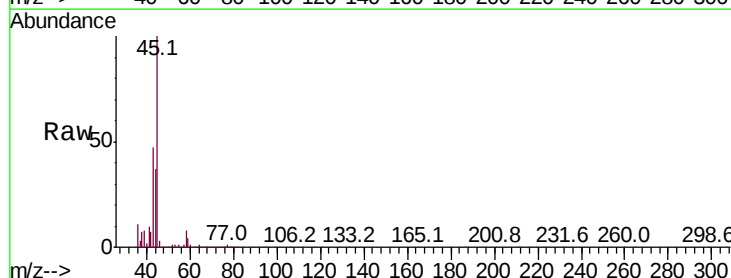
Instrument :
MSVOA_U
ClientSampled :

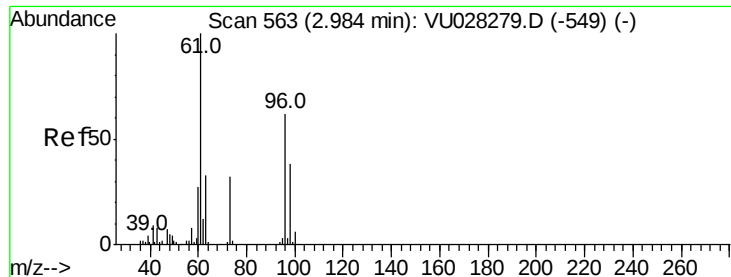
Tot Ion: 84 Resp: 107
Ion Ratio Lower Upper
84 100
86 0.0 45.3 84.1#
49 172.7 107.9 200.5



#17
Methyl tert-butyl Ether
Concen: 4.368 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

Tgt Ion: 73 Resp: 185
Ion Ratio Lower Upper
73 100
43 0.0 18.8 28.2#
57 426.5 19.2 28.8#





#18

trans-1,2-Dichloroethene

Concen: 4.528 ug/L

RT: 2.92 min Scan# 542

Delta R.T. -0.07 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

Instrument :
MSVOA_U
ClientSampleId :

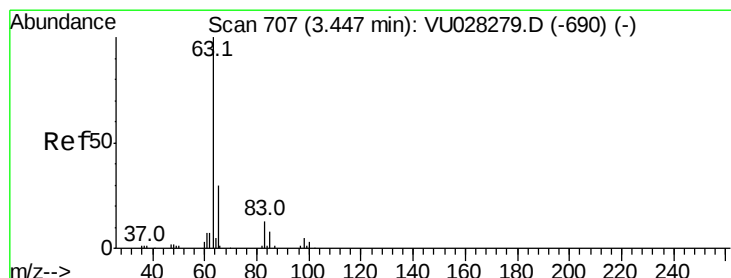
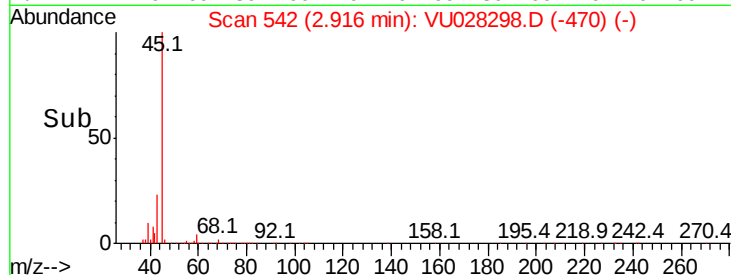
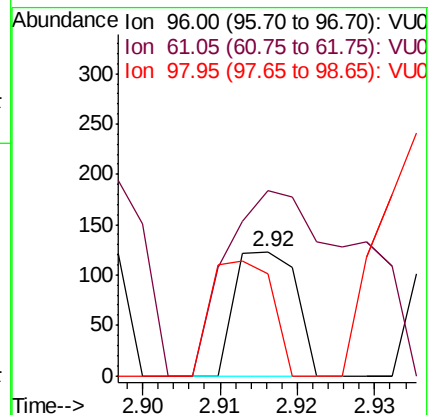
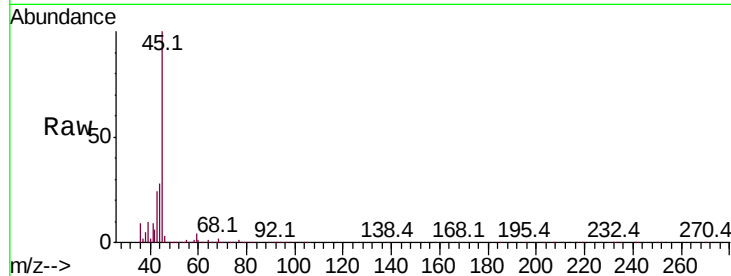
Tot Ion: 96 Resp: 68

Ion Ratio Lower Upper

96 100

61 149.6 122.2 227.0

98 82.1 44.9 83.5



#19

1,1-Dichloroethane

Concen: 2.125 ug/L

RT: 3.40 min Scan# 691

Delta R.T. -0.05 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

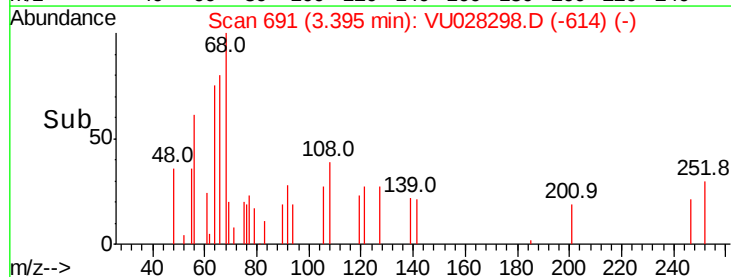
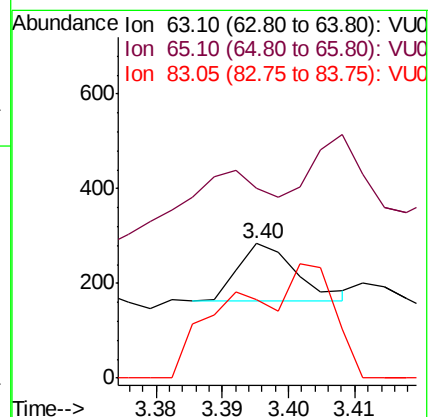
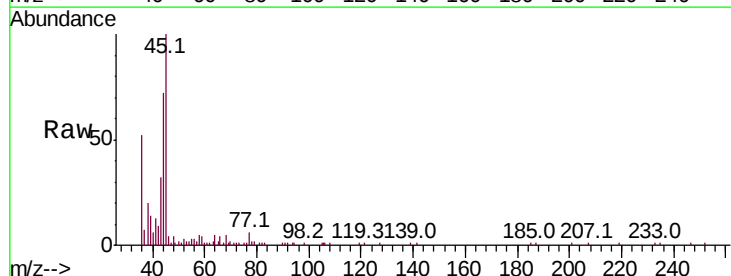
Tgt Ion: 63 Resp: 74

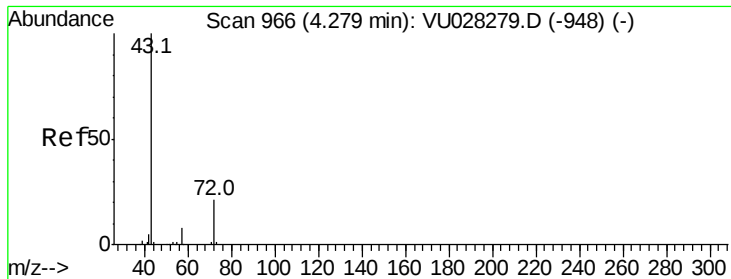
Ion Ratio Lower Upper

63 100

65 141.2 21.2 39.4#

83 58.8 8.8 16.4#





#21

2-Butanone

Concen: 152.482 ug/L

RT: 4.30 min Scan# 971

Delta R.T. 0.02 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

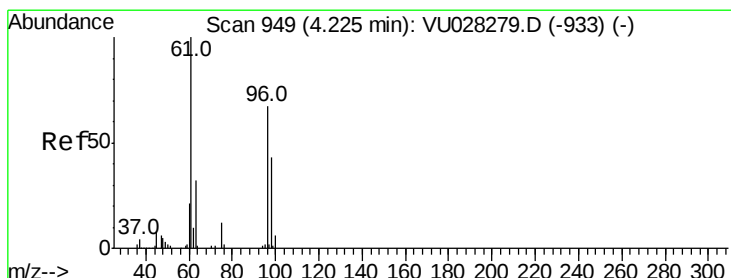
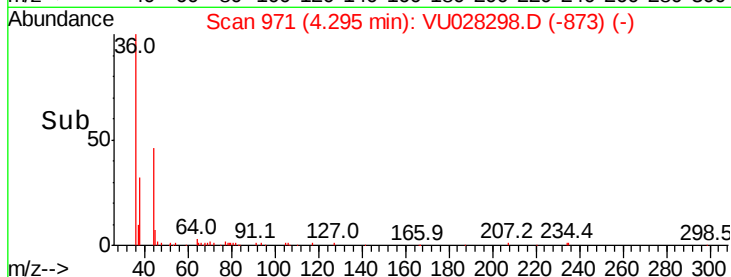
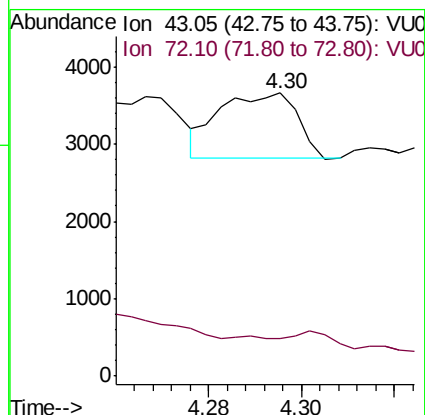
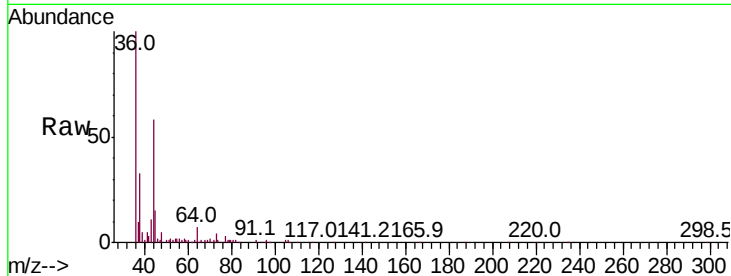
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 963

Ion Ratio Lower Upper

43 100

72 0.0 10.7 32.1#



#22

cis-1,2-Dichloroethene

Concen: 1346.295 ug/L

RT: 4.16 min Scan# 930

Delta R.T. -0.06 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

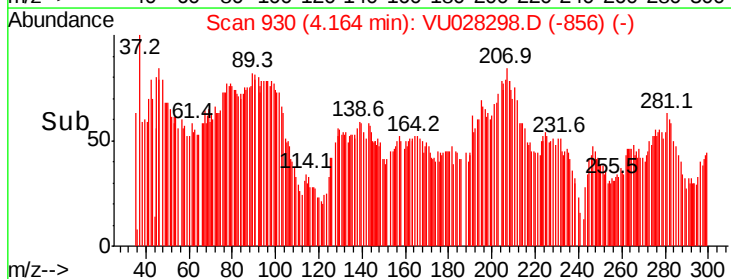
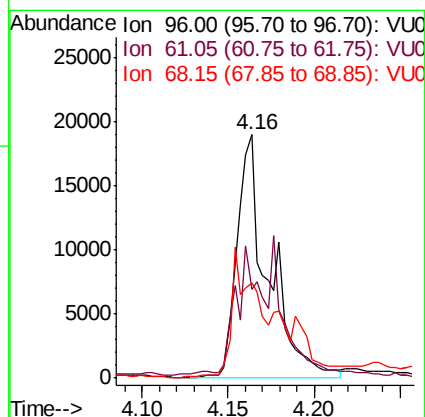
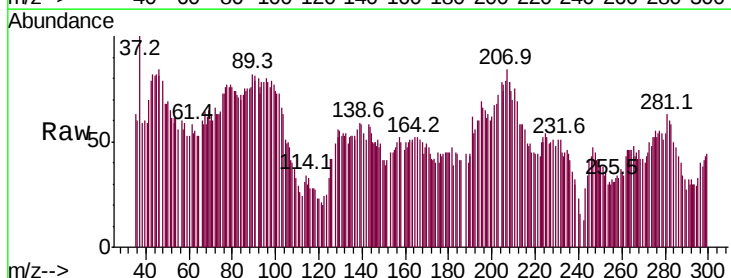
Tgt Ion: 96 Resp: 23898

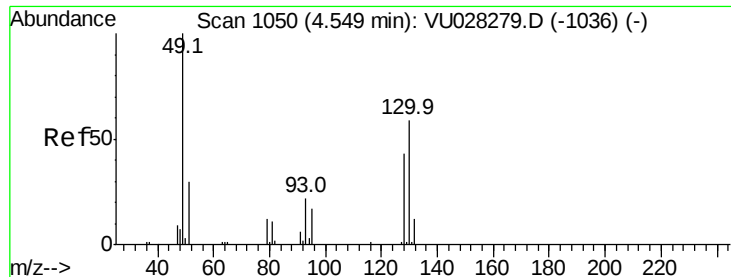
Ion Ratio Lower Upper

96 100

61 36.4 108.0 200.6#

68 39.3 0.0 0.0#

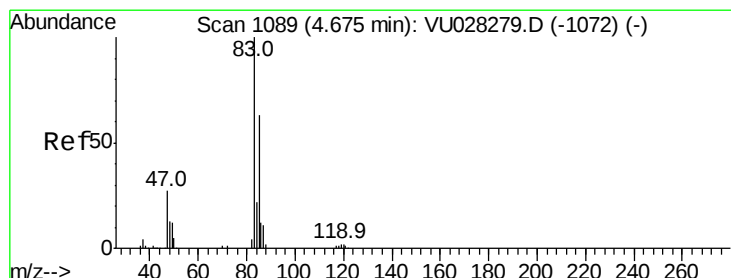
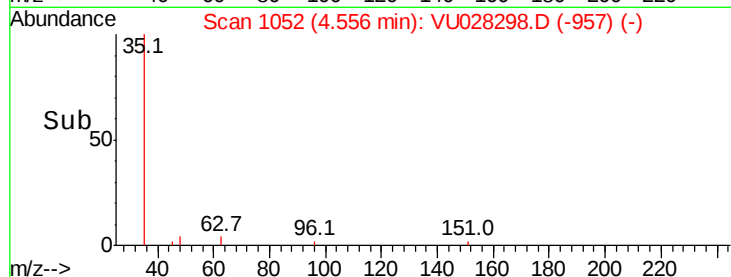
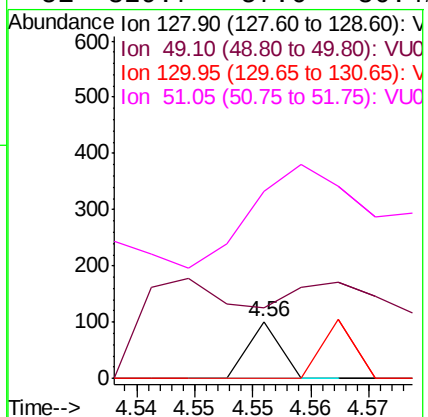
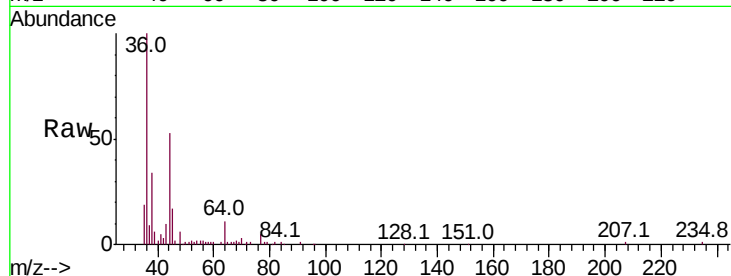




#23
Bromochloromethane
Concen: 2.735 ug/L
RT: 4.56 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

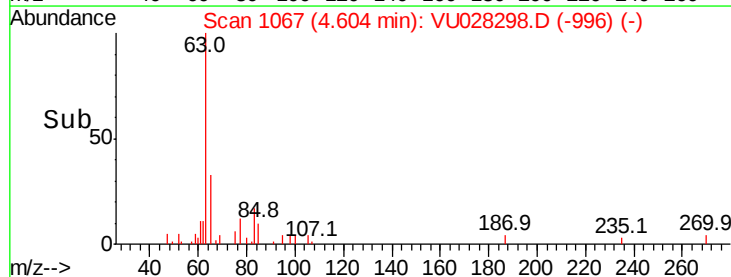
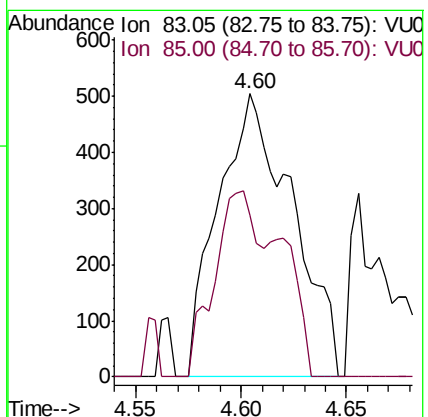
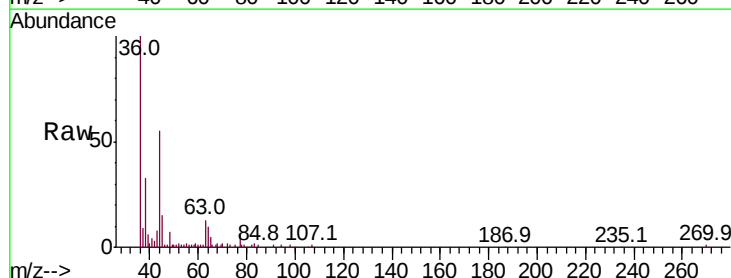
Instrument :
MSVOA_U
ClientSampled :

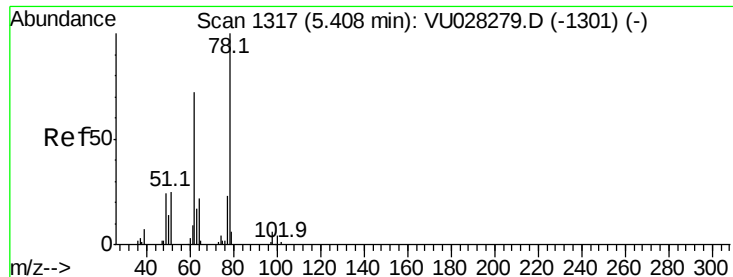
Tot Ion:128 Resp: 19
Ion Ratio Lower Upper
128 100
49 124.8 162.0 300.8#
130 0.0 87.7 162.9#
51 329.7 57.6 86.4#



#25
Chloroform
Concen: 32.720 ug/L
RT: 4.60 min Scan# 1067
Delta R.T. -0.07 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

Tgt Ion: 83 Resp: 1233
Ion Ratio Lower Upper
83 100
85 57.1 44.6 82.8





#27

1,2-Dichloroethane

Concen: 945.305 ug/L

RT: 5.27 min Scan# 1274

Delta R.T. -0.14 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

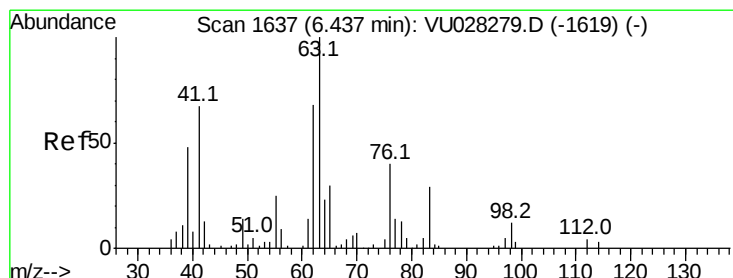
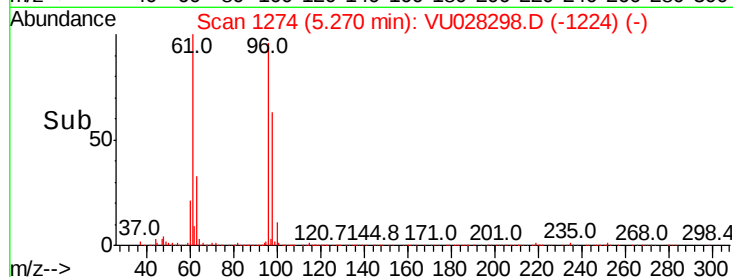
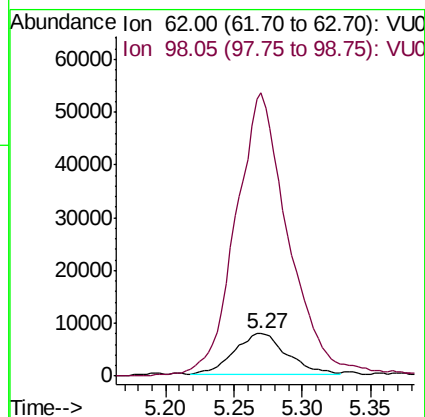
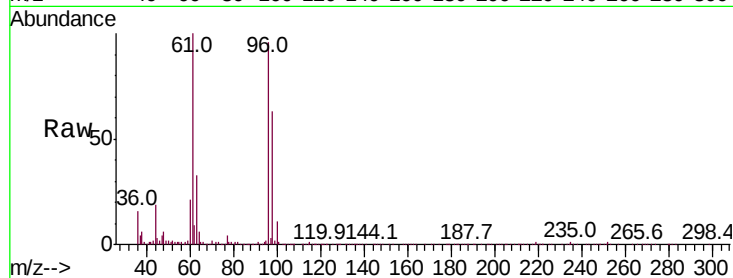
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 20362

Ion Ratio Lower Upper

62 100

98 664.8 6.2 9.4#



#37

1,2-Dichloropropane

Concen: 2.752 ug/L

RT: 6.60 min Scan# 1688

Delta R.T. 0.16 min

Lab File: VU028298.D

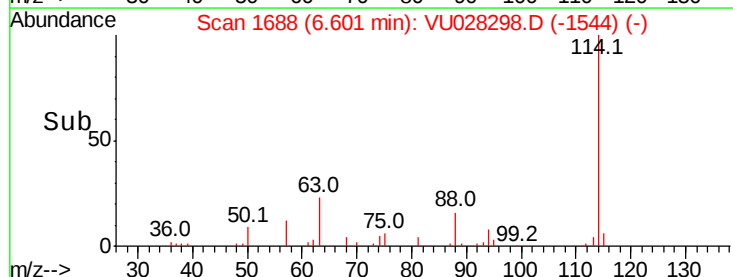
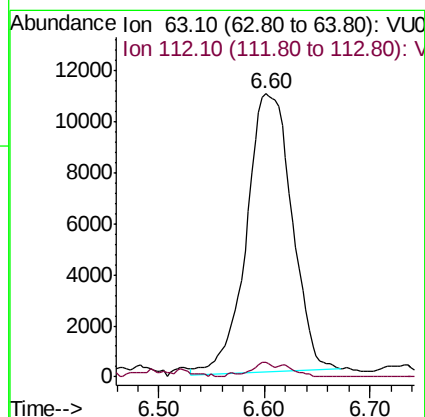
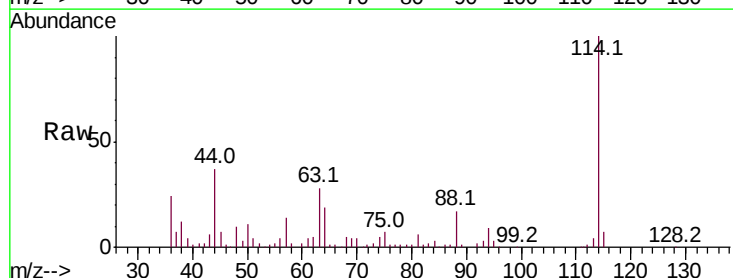
Acq: 20 Nov 2018 23:19

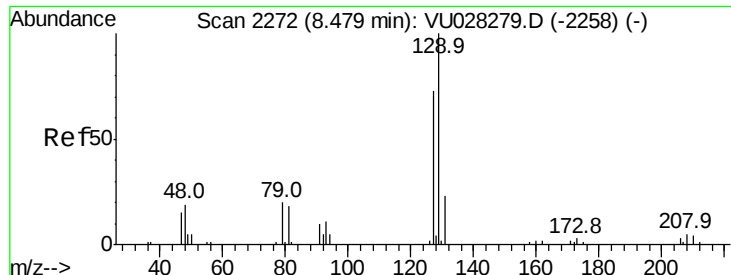
Tgt Ion: 63 Resp: 32663

Ion Ratio Lower Upper

63 100

112 2.4 2.2 3.2





#49

Dibromochloromethane

Concen: 0.354 ug/L

RT: 8.51 min Scan# 2283

Delta R.T. 0.04 min

Lab File: VU028298.D

Acq: 20 Nov 2018 23:19

Instrument :

MSVOA_U

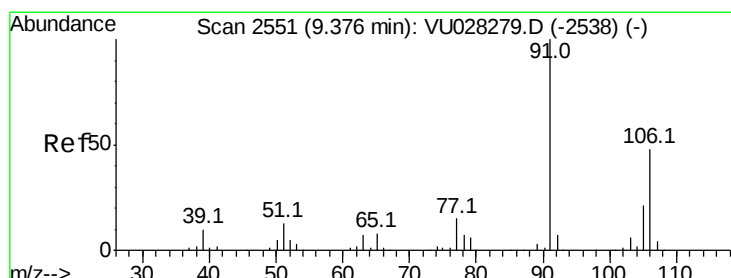
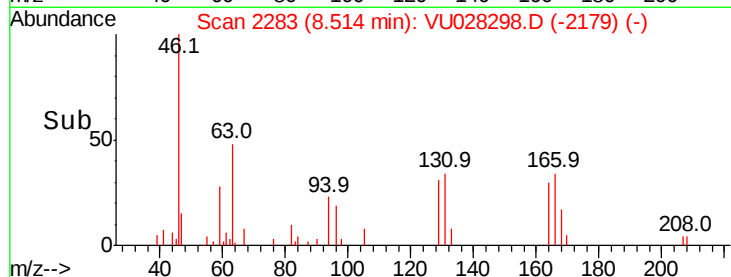
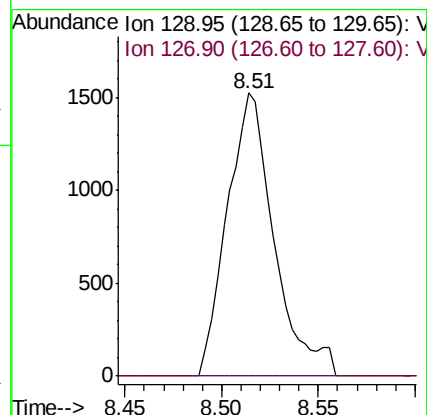
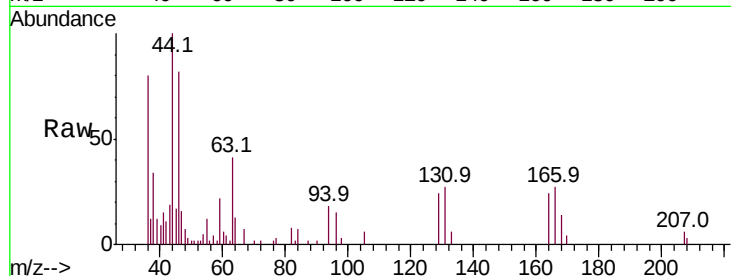
ClientSampleId :

Tot Ion:129 Resp: 2569

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



#53

m,p-xylene

Concen: 0.082 ug/L

RT: 9.42 min Scan# 2566

Delta R.T. 0.05 min

Lab File: VU028298.D

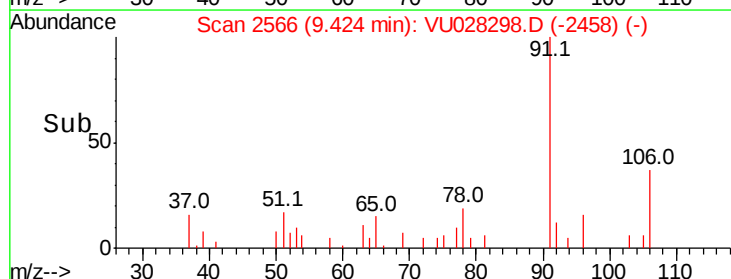
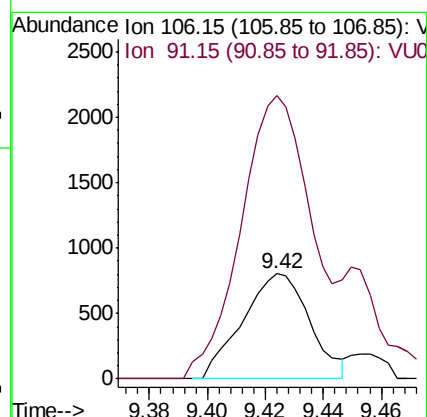
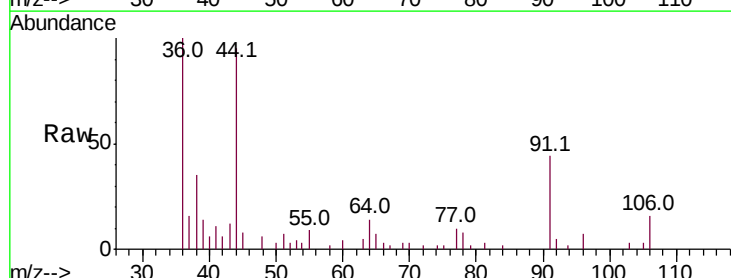
Acq: 20 Nov 2018 23:19

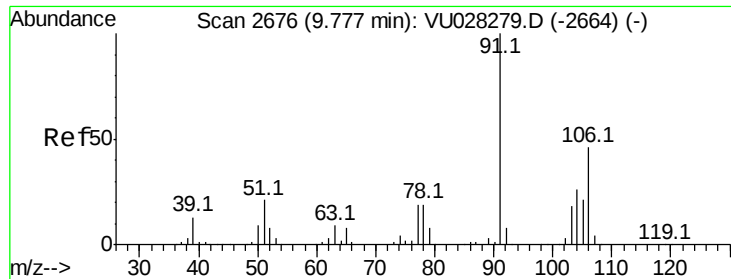
Tgt Ion:106 Resp: 1290

Ion Ratio Lower Upper

106 100

91 268.5 150.6 279.6

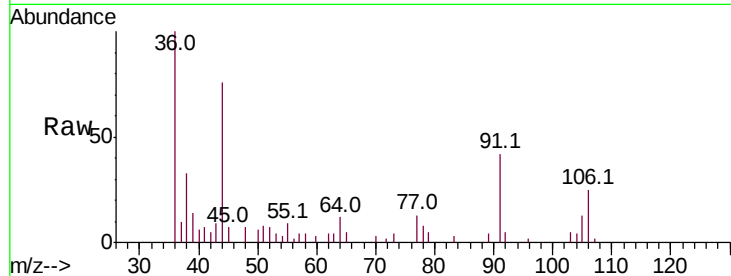




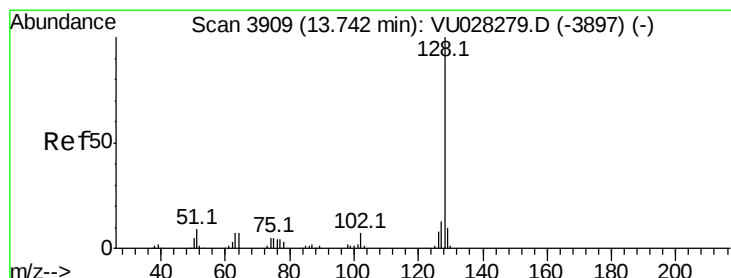
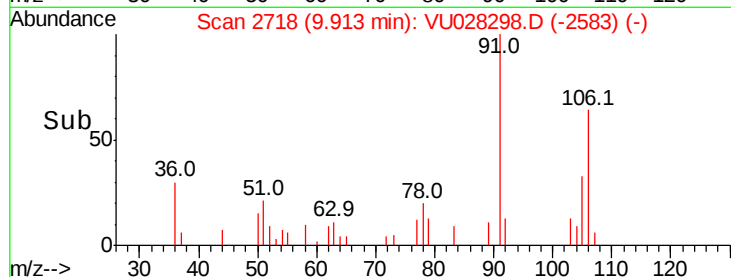
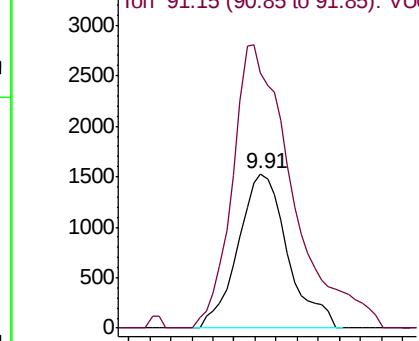
#54
o-xylene
Concen: 0.159 ug/L
RT: 9.91 min Scan# 2718
Delta R.T. 0.14 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 2493
Ion Ratio Lower Upper
106 100
91 165.6 157.5 292.5

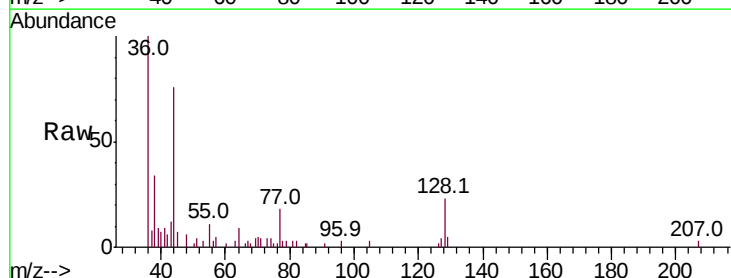


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0



#69
Naphthalene
Concen: 0.102 ug/L
RT: 13.75 min Scan# 3913
Delta R.T. 0.01 min
Lab File: VU028298.D
Acq: 20 Nov 2018 23:19

Tgt Ion:128 Resp: 2121
Ion Ratio Lower Upper
128 100
129 17.4 8.6 12.8#
127 10.3 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

