

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028291.D
 Acq On : 20 Nov 2018 20:32
 Operator : MD/SY
 Sample : J5997-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 07:12:02 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	128101	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	124535	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	53424	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	36261	3.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.20%
7) Chloroethane-d5	1.68	69	34982	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	2.28	63	59018	3.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.60%
20) 2-Butanone-d5	4.19	46	178772	55.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.84%
24) Chloroform-d	4.65	84	79946	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.31	65	46803	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
32) Benzene-d6	5.34	84	146551	4.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.80%
36) 1,2-Dichloropropane-d6	6.33	67	60126	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.40%
41) Toluene-d8	7.57	98	116574	3.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.60%
43) trans-1,3-Dichloropropene-	7.85	79	17592	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.31	63	125045	50.14	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.28%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	49789	5.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	47768	4.81	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.31	85	21815	2.028 ug/L	99
9) Trichlorofluoromethane	1.89	101	2236	0.148 ug/L	100
12) 1,1-Dichloroethene	2.29	96	13503	1.712 ug/L #	65
13) Acetone	2.32	43	17068	7.693 ug/L	96
18) trans-1,2-Dichloroethene	2.98	96	2102	0.250 ug/L	81
19) 1,1-Dichloroethane	3.45	63	190565	9.783 ug/L	99
22) cis-1,2-Dichloroethene	4.22	96	16552	1.667 ug/L	92
25) Chloroform	4.67	83	3145	0.149 ug/L	90
29) 1,1,1-Trichloroethane	4.92	97	130646	9.306 ug/L	98
31) Carbon tetrachloride	4.92	117	15907	1.381 ug/L	95
34) Trichloroethene	6.19	95	36883	3.666 ug/L	100
35) Methylcyclohexane	6.33	83	11741	0.741 ug/L #	13
37) 1,2-Dichloropropane	6.33	63	6330	0.540 ug/L #	92
39) cis-1,3-Dichloropropene	7.23	75	1159	0.078 ug/L #	60
42) Toluene	7.64	91	3844	0.092 ug/L	84
47) Tetrachloroethene	8.23	164	7073	1.013 ug/L	96
48) 2-Hexanone	8.37	43	4748	0.794 ug/L #	82

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QLast Update : Wed Nov 21 07:07:52 2018
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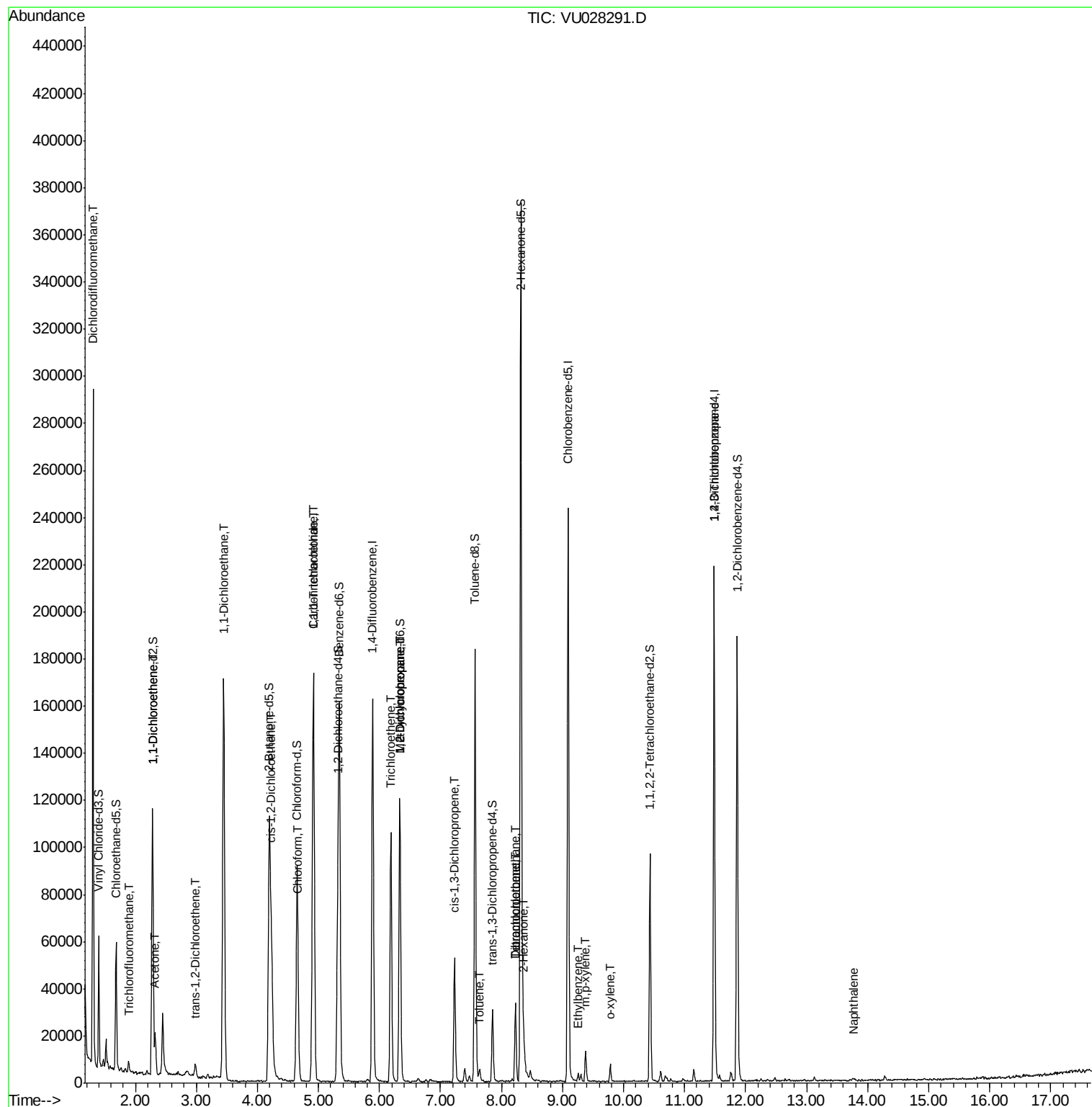
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.23	129	6789	0.947	ug/L #	10
52) Ethylbenzene	9.25	91	2777	0.062	ug/L	95
53) m,p-xylene	9.37	106	3238	0.208	ug/L	88
54) o-xylene	9.78	106	1720	0.111	ug/L	95
59) 1,2,3-Trichloropropane	11.48	75	7726	1.140	ug/L	90
69) Naphthalene	13.76	128	1557	0.084	ug/L #	70

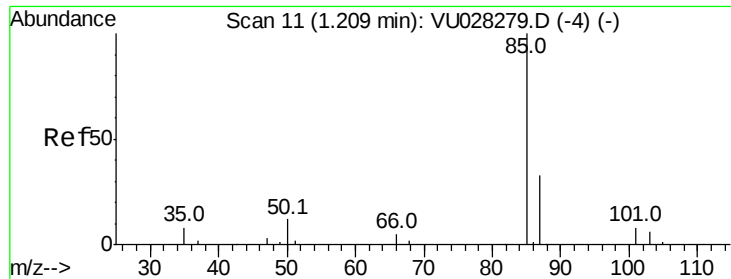
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.028 ug/L

RT: 1.31 min Scan# 41

Delta R.T. 0.10 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

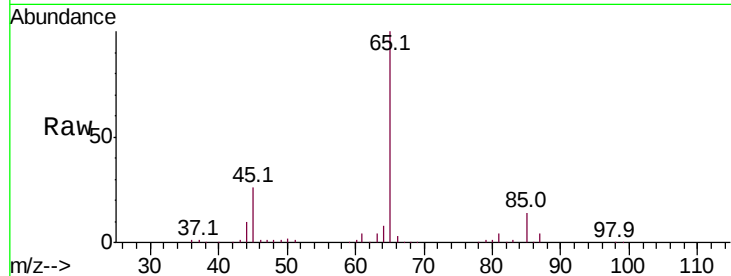
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 21815

Ion Ratio Lower Upper

85 100

87 31.8 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) (-)

1.31

25000

20000

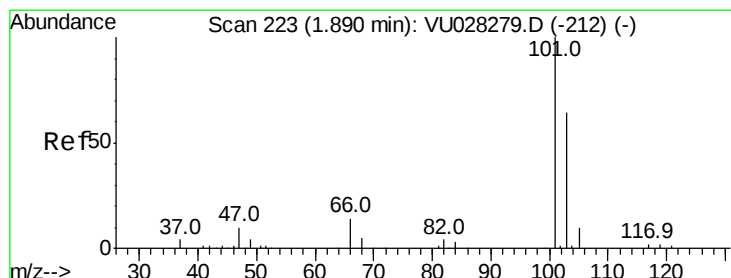
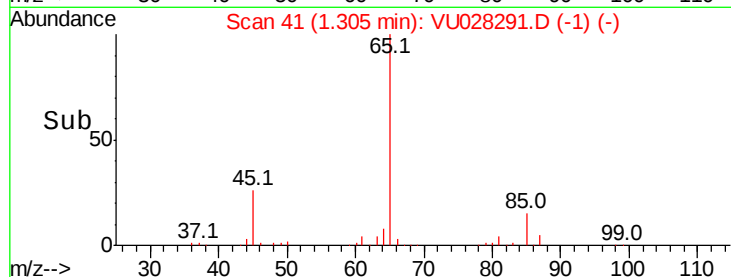
15000

10000

5000

0

Time-->



#9

Trichlorofluoromethane

Concen: 0.148 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU028291.D

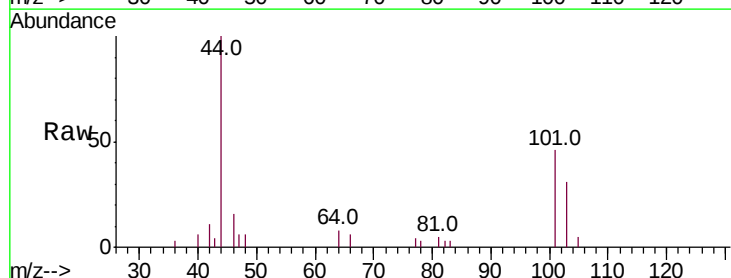
Acq: 20 Nov 2018 20:32

Tgt Ion: 101 Resp: 2236

Ion Ratio Lower Upper

101 100

103 64.5 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) (-)

1.89

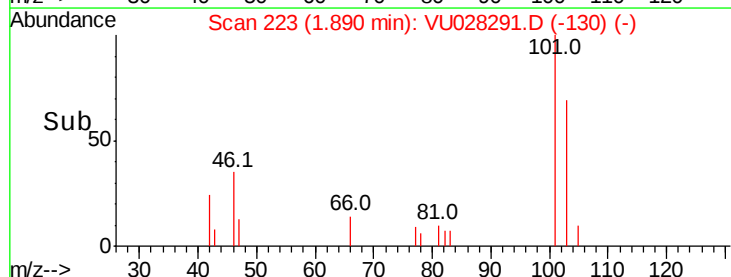
1500

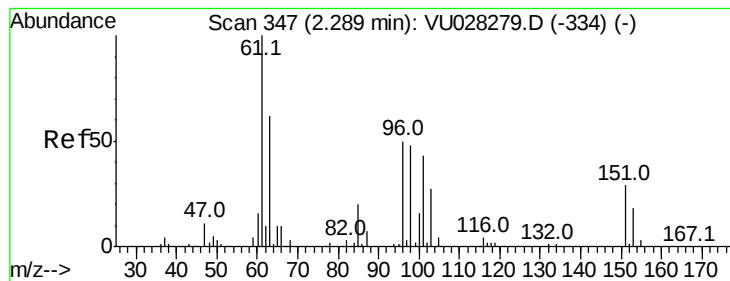
1000

500

0

Time-->





#12

1,1-Dichloroethene

Concen: 1.712 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Instrument :
MSVOA_U
ClientSampled :

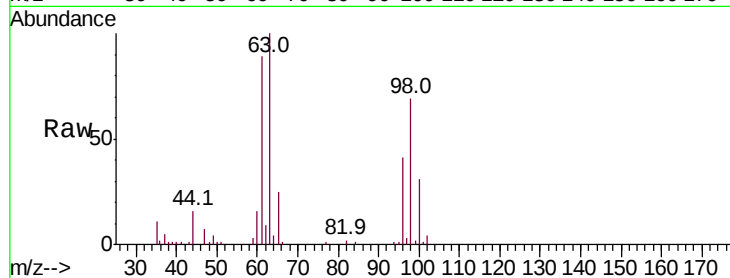
Tot Ion: 96 Resp: 13503

Ion Ratio Lower Upper

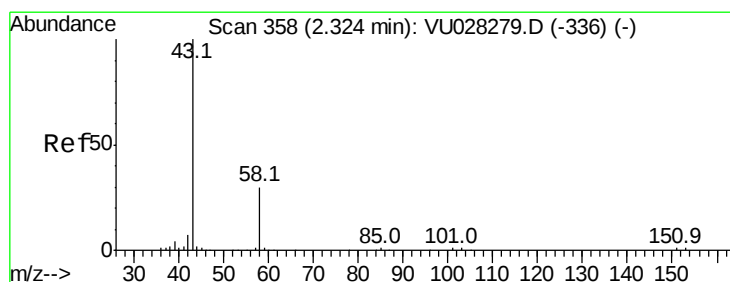
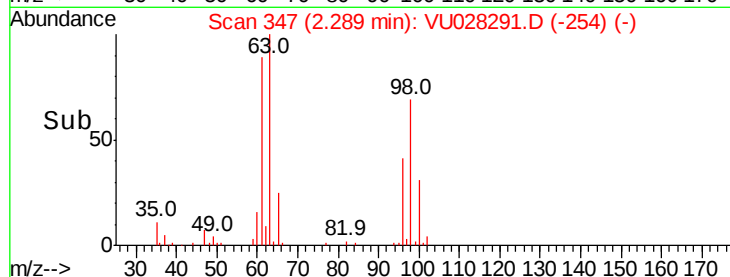
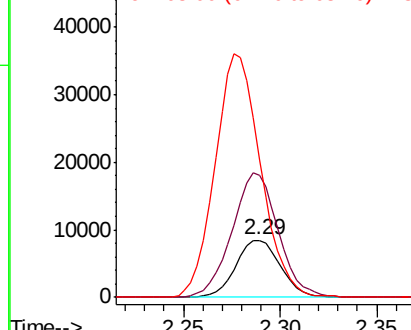
96 100

61 213.7 145.5 270.1

63 241.2 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: 7.693 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028291.D

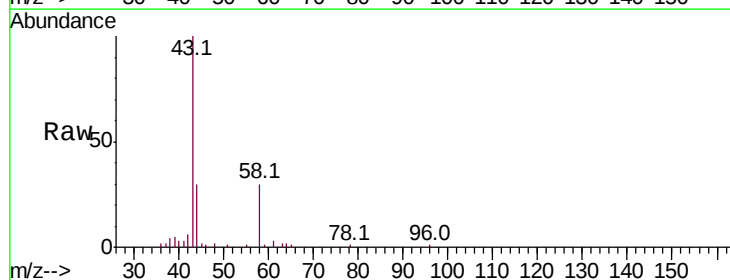
Acq: 20 Nov 2018 20:32

Tgt Ion: 43 Resp: 17068

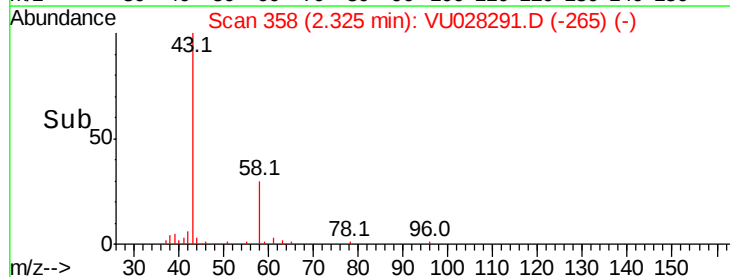
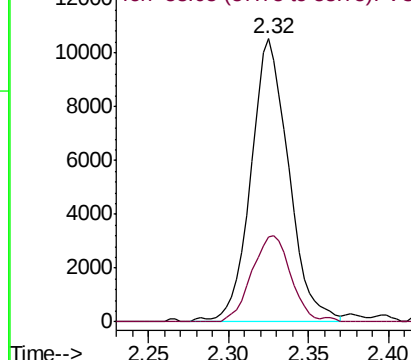
Ion Ratio Lower Upper

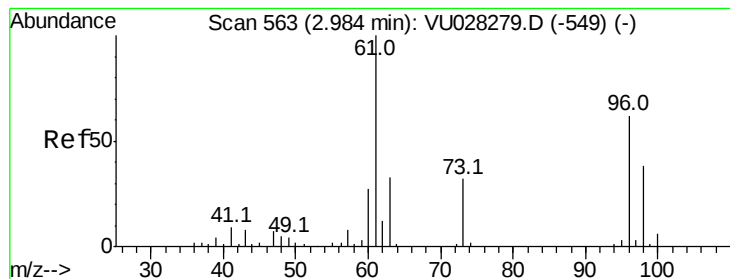
43 100

58 31.6 0.0 58.6



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: 0.250 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Instrument :
MSVOA_U
ClientSampleId :

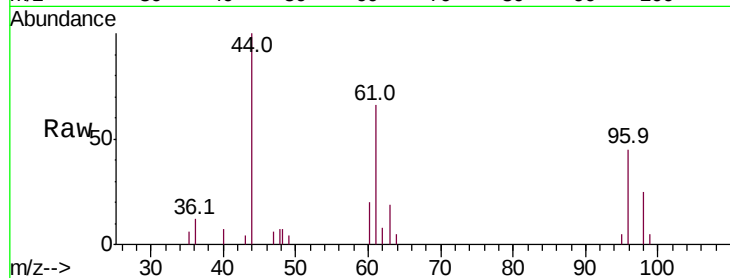
Tot Ion: 96 Resp: 2102

Ion Ratio Lower Upper

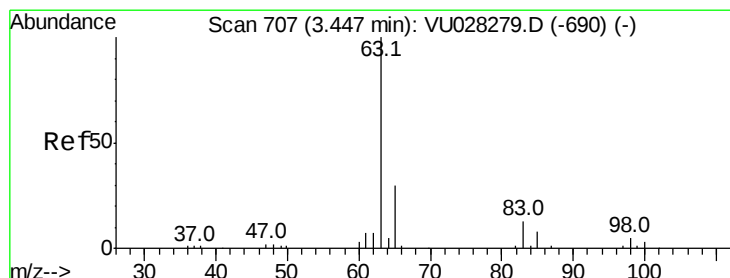
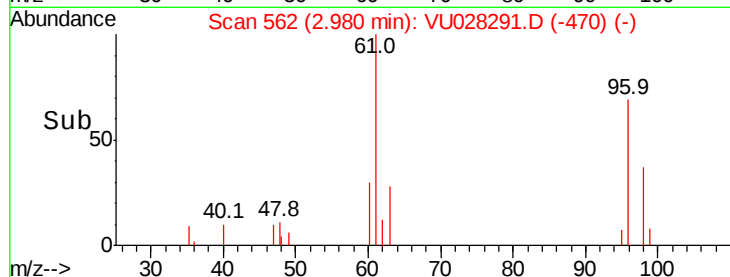
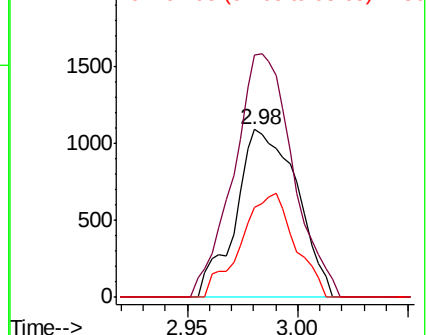
96 100

61 144.7 122.2 227.0

98 54.1 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: 9.783 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

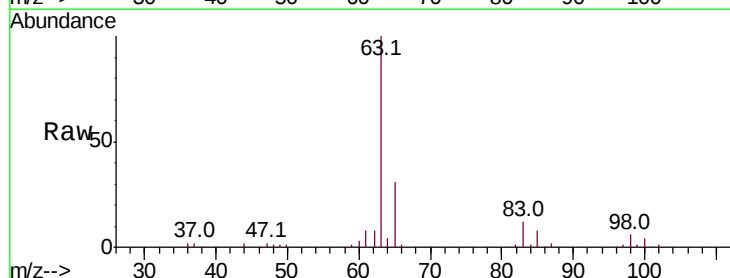
Tgt Ion: 63 Resp: 190565

Ion Ratio Lower Upper

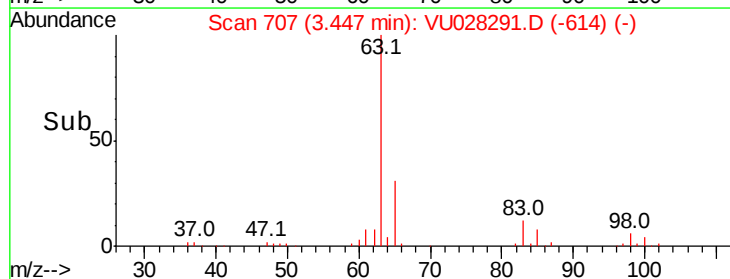
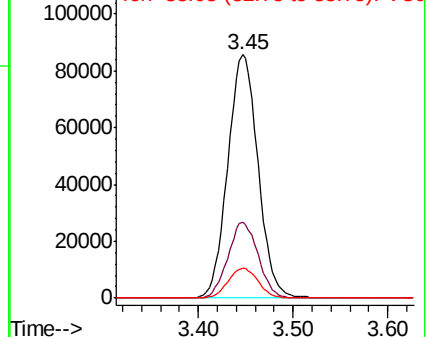
63 100

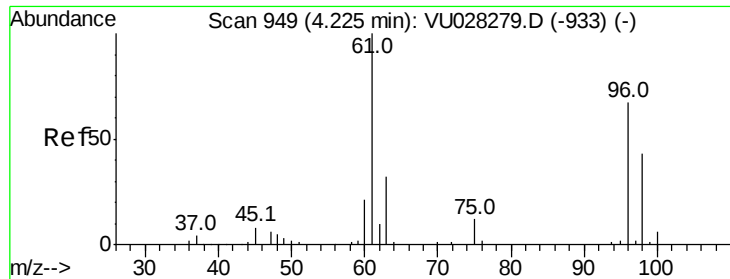
65 31.1 21.2 39.4

83 12.1 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



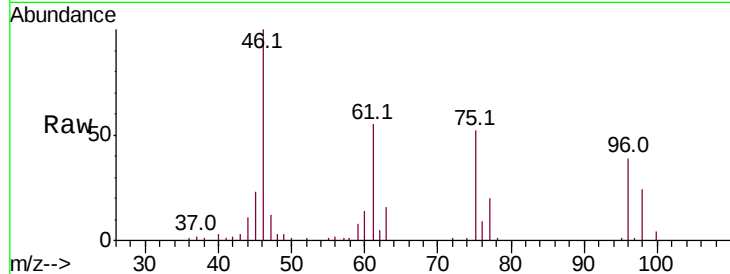


#22

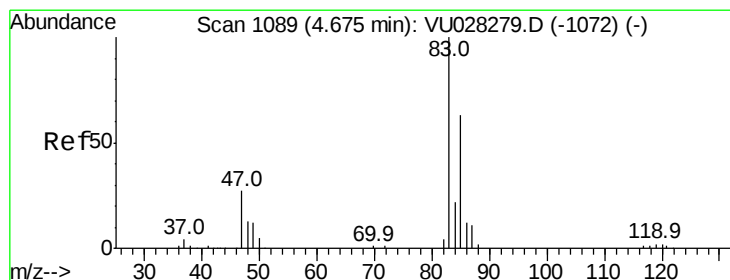
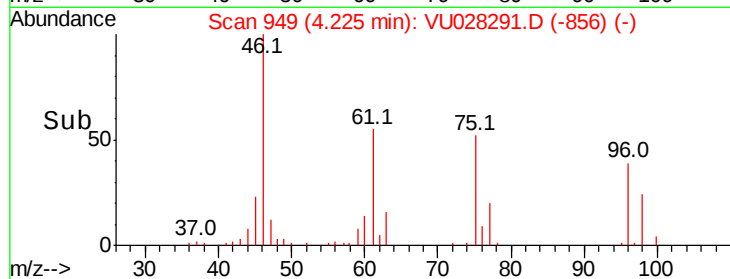
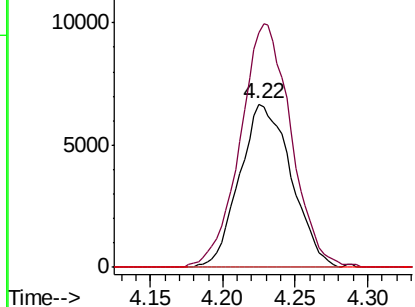
cis-1,2-Dichloroethene
 Concen: 1.667 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VU028291.D
 Acq: 20 Nov 2018 20:32

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 16552
 Ion Ratio Lower Upper
 96 100
 61 143.7 108.0 200.6
 68 0.0 0.0 0.0



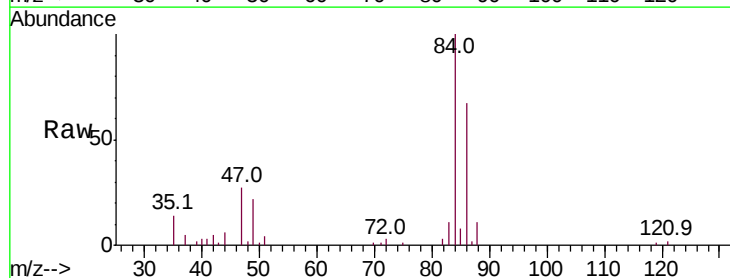
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



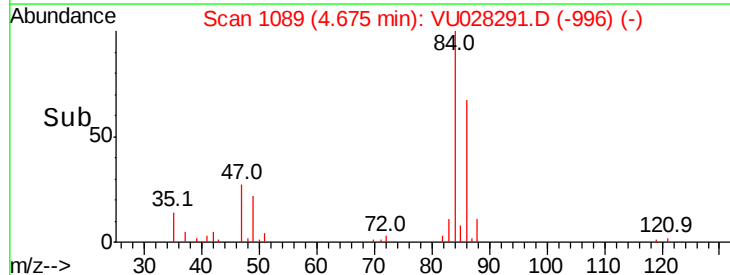
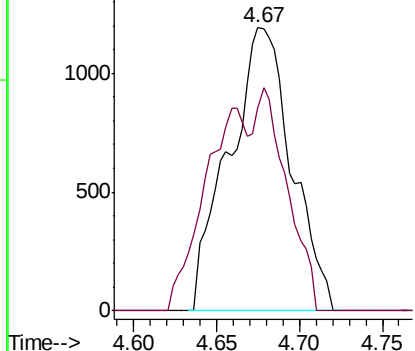
#25

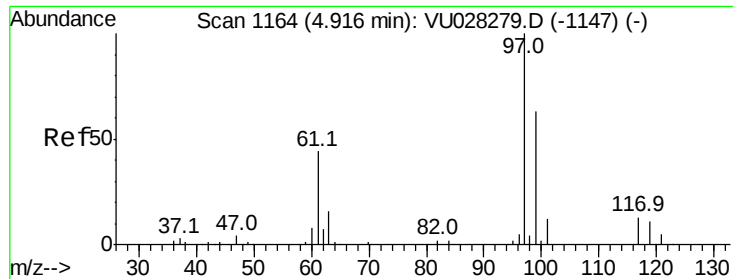
Chloroform
 Concen: 0.149 ug/L
 RT: 4.67 min Scan# 1089
 Delta R.T. 0.00 min
 Lab File: VU028291.D
 Acq: 20 Nov 2018 20:32

Tgt Ion: 83 Resp: 3145
 Ion Ratio Lower Upper
 83 100
 85 71.5 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: 9.306 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. 0.00 min

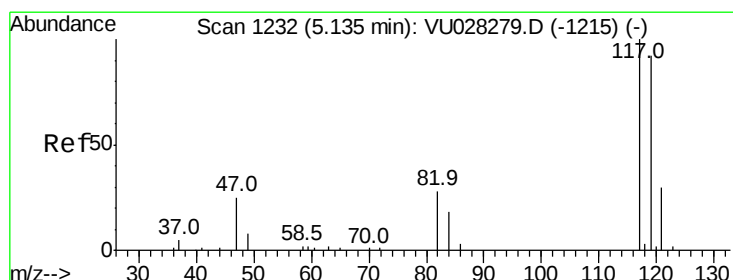
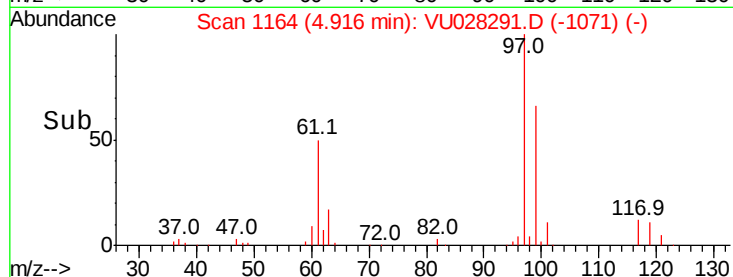
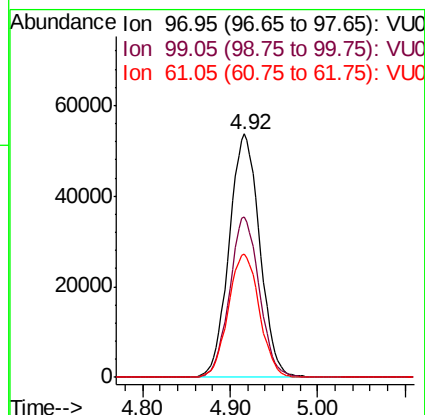
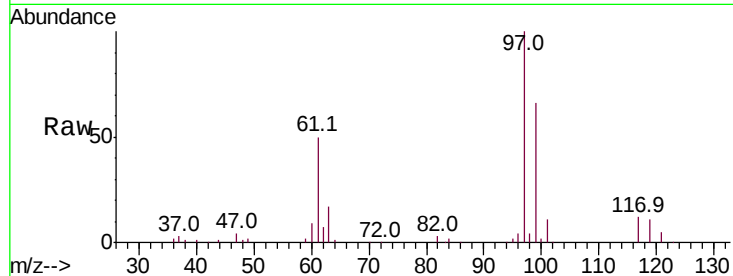
Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 130646

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.8	76.2
61	51.3	42.6	64.0



#31

Carbon tetrachloride

Concen: 1.381 ug/L

RT: 4.92 min Scan# 1165

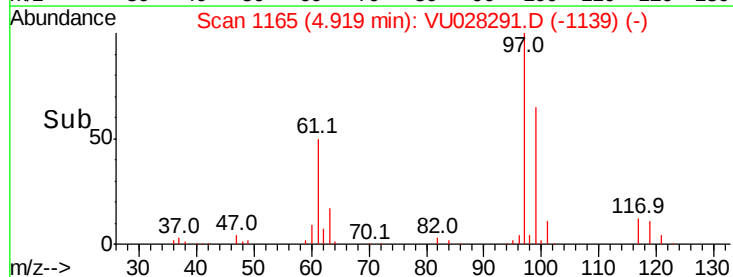
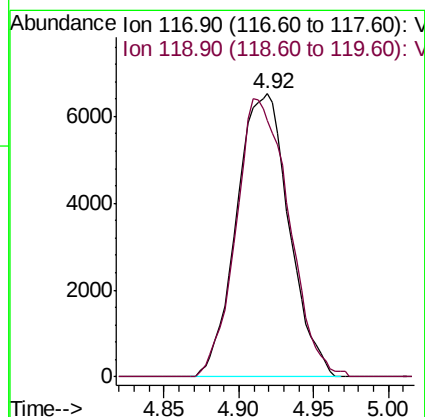
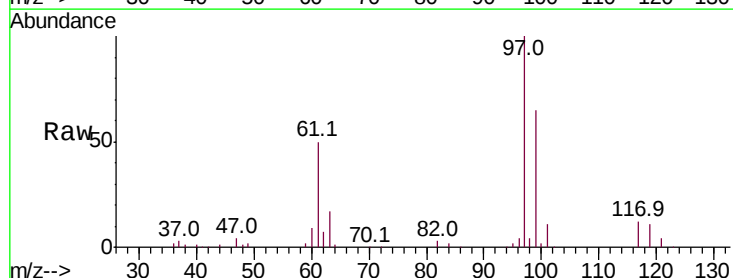
Delta R.T. -0.22 min

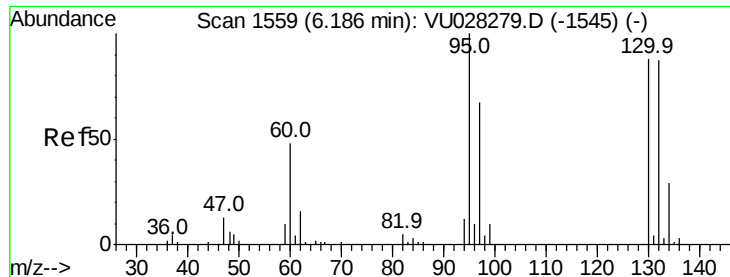
Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Tgt Ion:117 Resp: 15907

Ion	Ratio	Lower	Upper
117	100		
119	99.2	75.6	113.4





#34

Trichloroethene

Concen: 3.666 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 36883

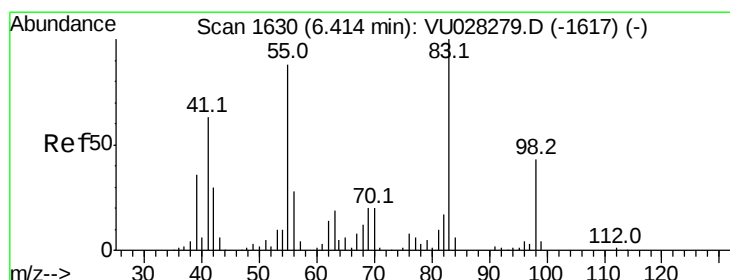
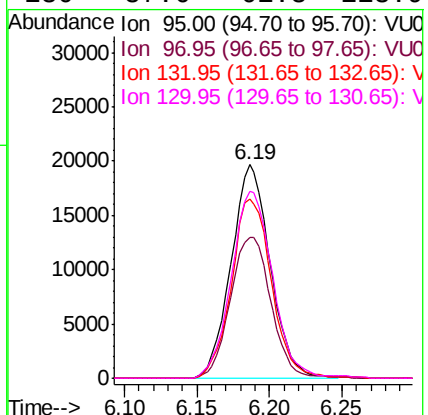
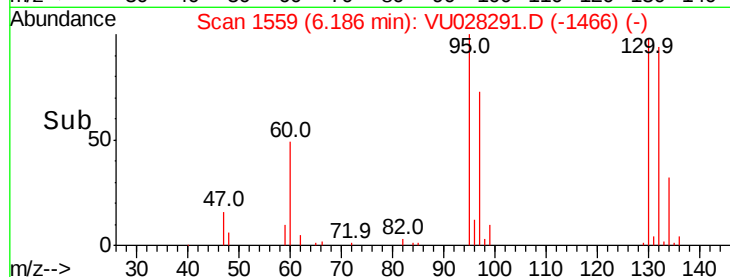
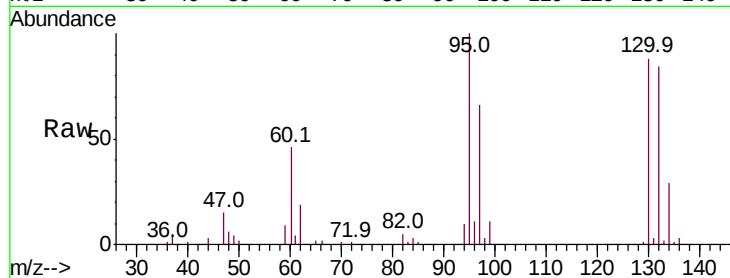
Ion Ratio Lower Upper

95 100

97 65.8 46.5 86.3

132 84.1 58.9 109.3

130 87.6 61.3 113.9



#35

Methylcyclohexane

Concen: 0.741 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

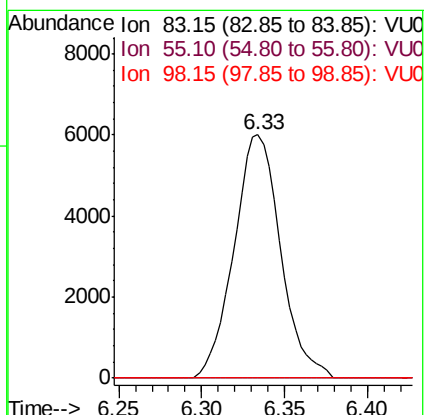
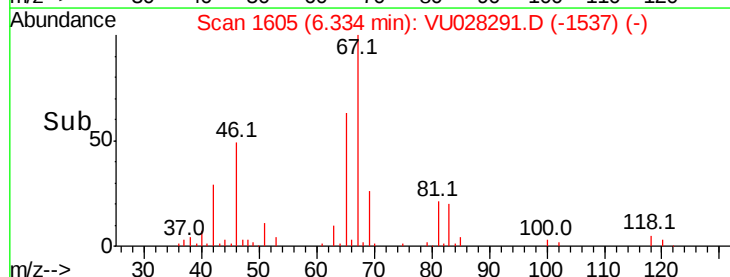
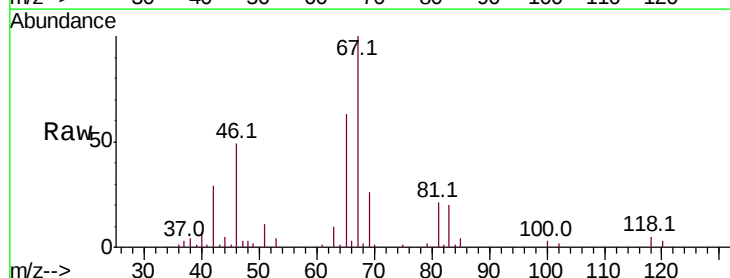
Tgt Ion: 83 Resp: 11741

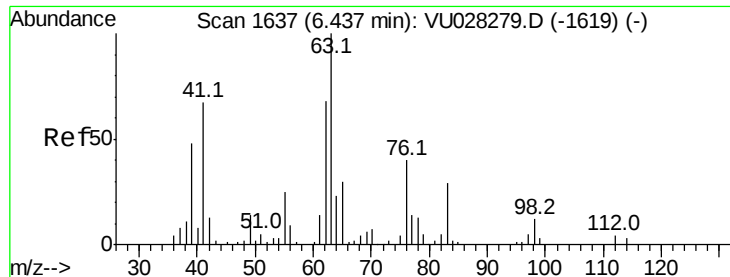
Ion Ratio Lower Upper

83 100

55 0.0 73.2 109.8#

98 0.0 33.4 50.2#

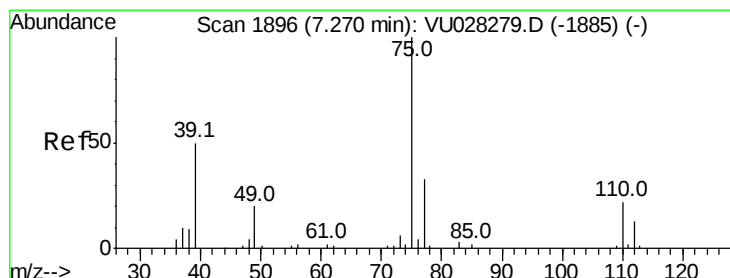
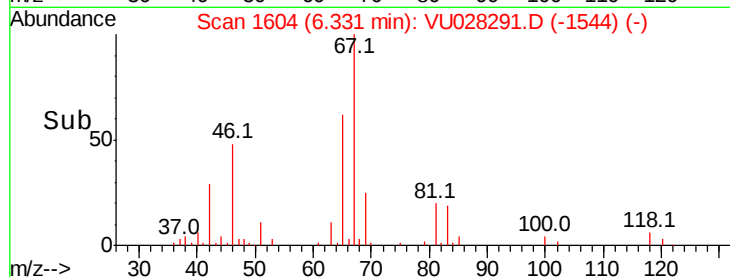
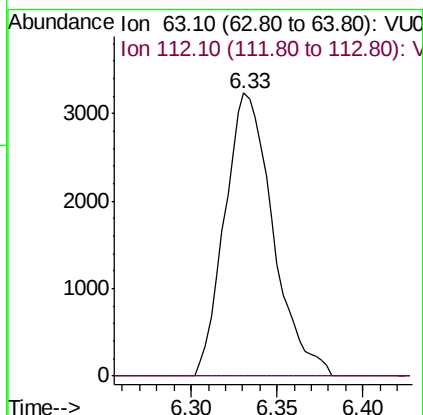
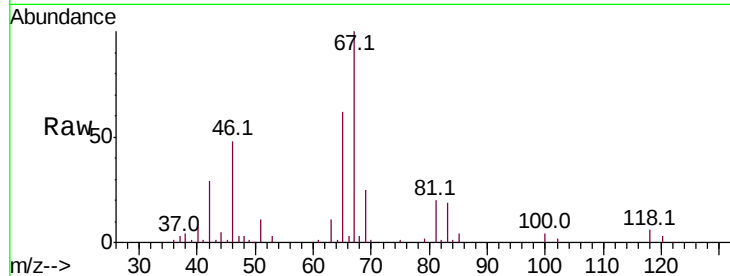




#37
 1,2-Dichloropropane
 Concen: 0.540 ug/L
 RT: 6.33 min Scan# 1604
 Delta R.T. -0.11 min
 Lab File: VU028291.D
 Acq: 20 Nov 2018 20:32

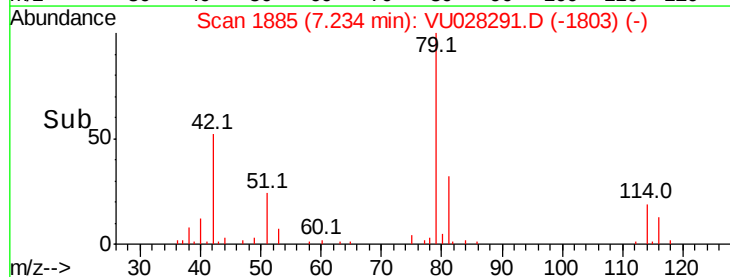
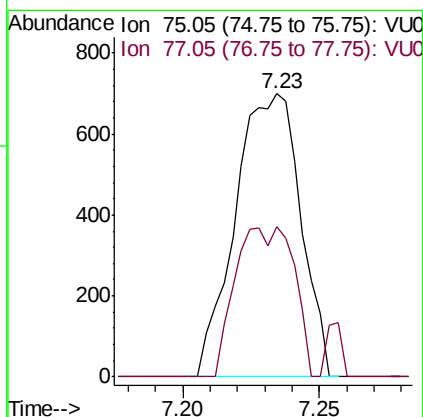
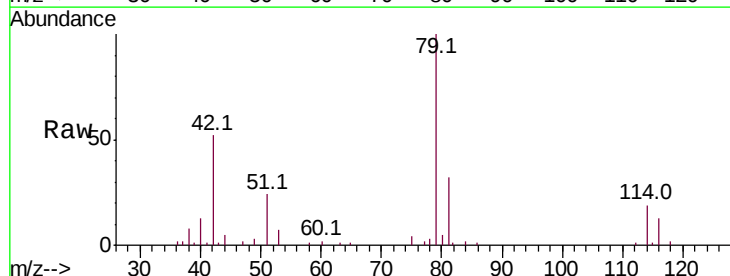
Instrument :
 MSVOA_U
 ClientSampleId :

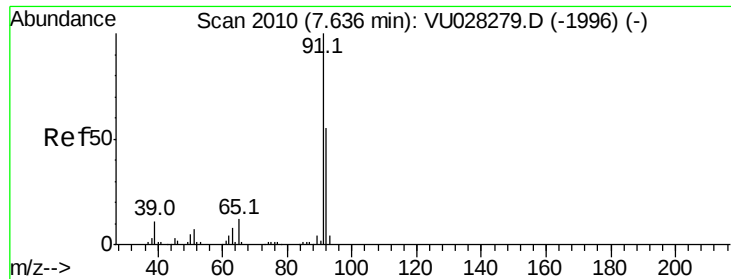
Tot Ion: 63 Resp: 6330
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.2 3.2#



#39
 cis-1,3-Dichloropropene
 Concen: 0.078 ug/L
 RT: 7.23 min Scan# 1885
 Delta R.T. -0.04 min
 Lab File: VU028291.D
 Acq: 20 Nov 2018 20:32

Tgt Ion: 75 Resp: 1159
 Ion Ratio Lower Upper
 75 100
 77 52.9 21.7 40.3#





#42

Toluene

Concen: 0.092 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.01 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

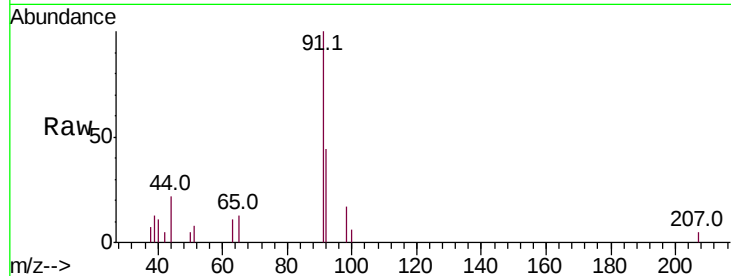
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 3844

Ion Ratio Lower Upper

91 100

92 44.3 39.0 72.4



Abundance Ion 91.15 (90.85 to 91.85): VU028291.D (-1996) (-)

Ion 92.15 (91.85 to 92.85): VU028291.D (-1996) (-)

7.64

2500

2000

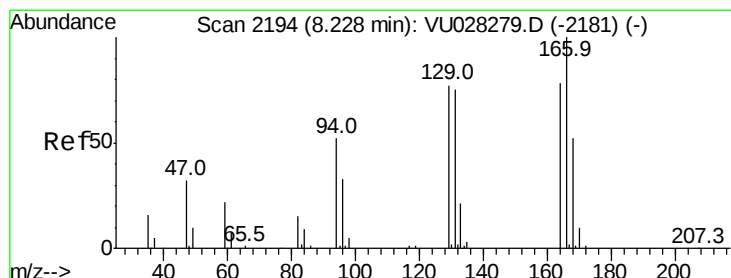
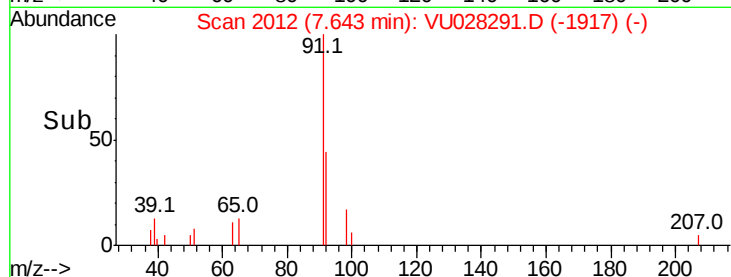
1500

1000

500

0

Time-->



#47

Tetrachloroethene

Concen: 1.013 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Tgt Ion:164 Resp: 7073

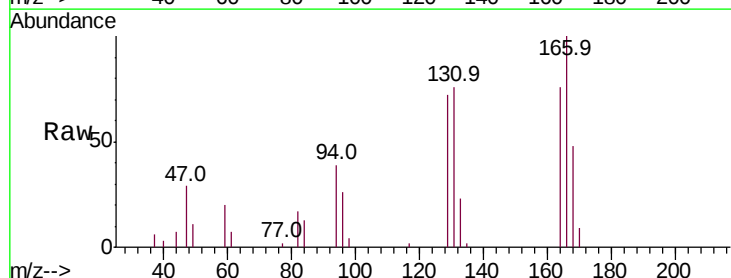
Ion Ratio Lower Upper

164 100

129 94.3 67.6 125.6

131 99.3 66.3 123.1

166 131.5 89.2 165.6



Abundance Ion 163.90 (163.60 to 164.60): VU028291.D (-2181) (-)

Ion 128.95 (128.65 to 129.65): VU028291.D (-2181) (-)

Ion 130.95 (130.65 to 131.65): VU028291.D (-2181) (-)

Ion 165.90 (165.60 to 166.60): VU028291.D (-2181) (-)

8000

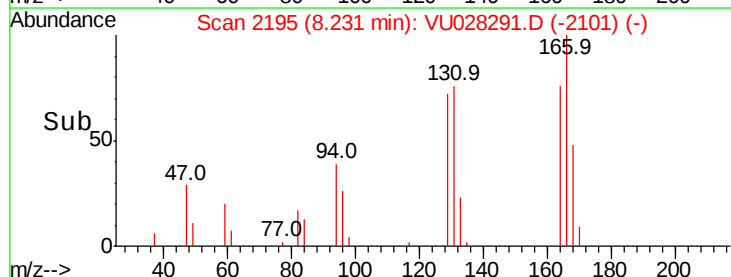
6000

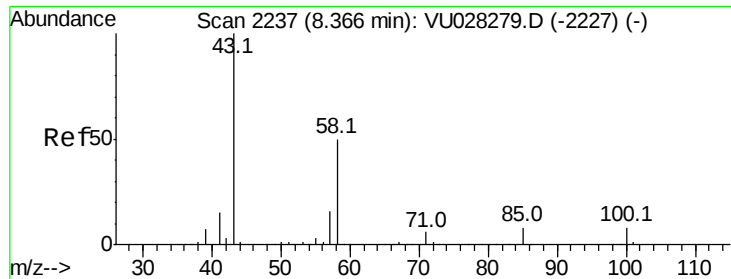
4000

2000

0

Time-->

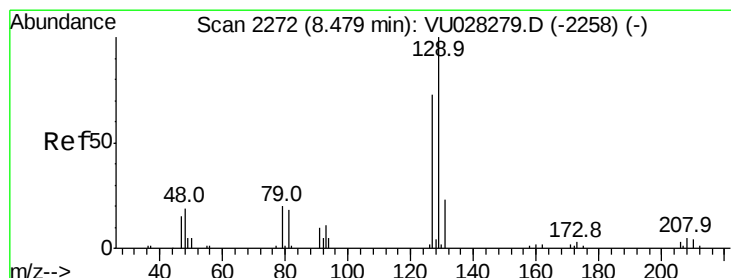
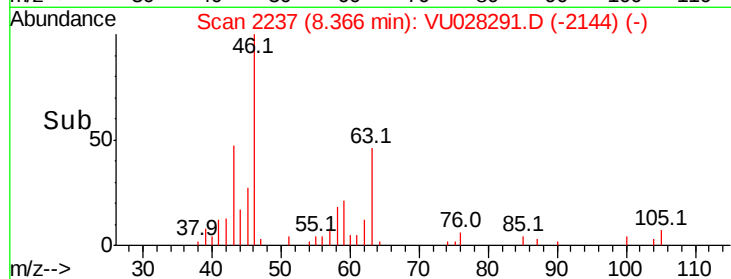
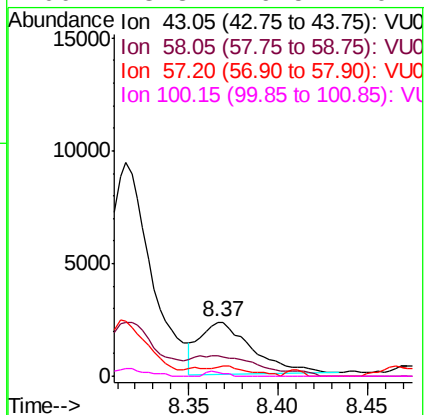
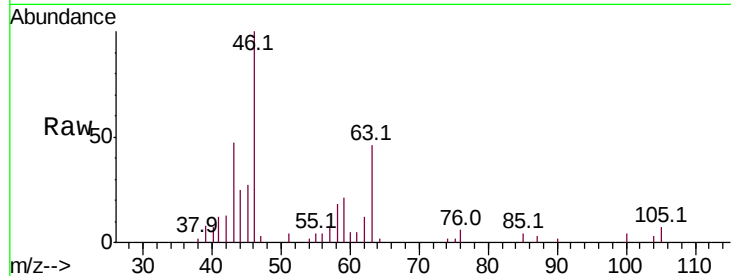




#48
2-Hexanone
Concen: 0.794 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU028291.D
Acq: 20 Nov 2018 20:32

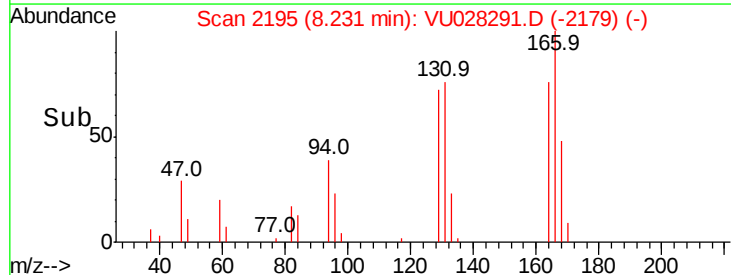
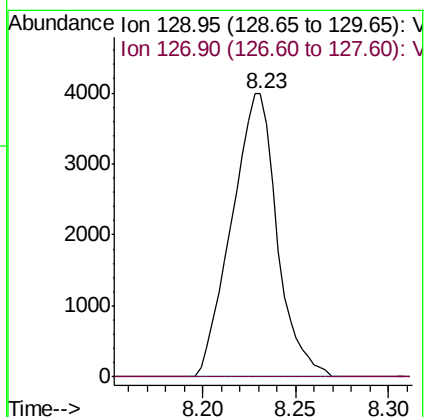
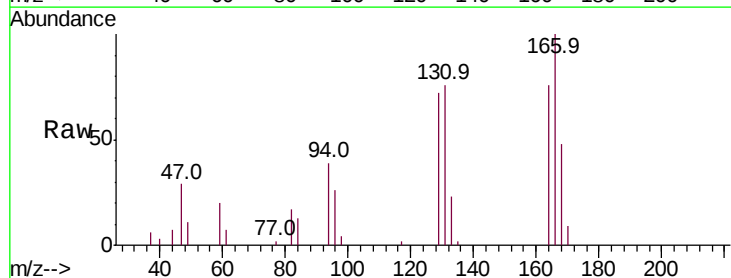
Instrument :
MSVOA_U
ClientSampled :

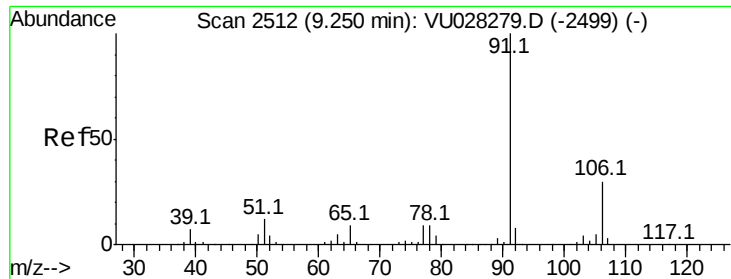
Tot Ion: 43 Resp: 4748
Ion Ratio Lower Upper
43 100
58 35.9 41.1 61.7#
57 13.2 13.8 20.8#
100 3.3 6.5 9.7#



#49
Dibromochloromethane
Concen: 0.947 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VU028291.D
Acq: 20 Nov 2018 20:32

Tgt Ion: 129 Resp: 6789
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.5#





#52

Ethylbenzene

Concen: 0.062 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

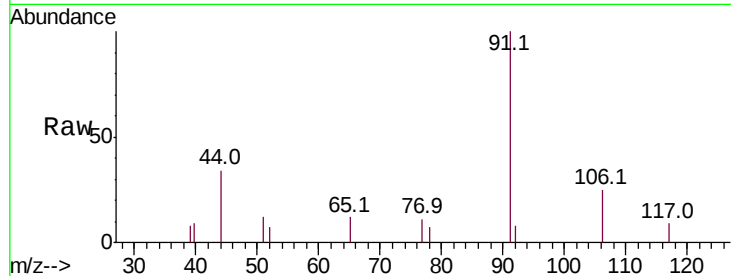
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 2777

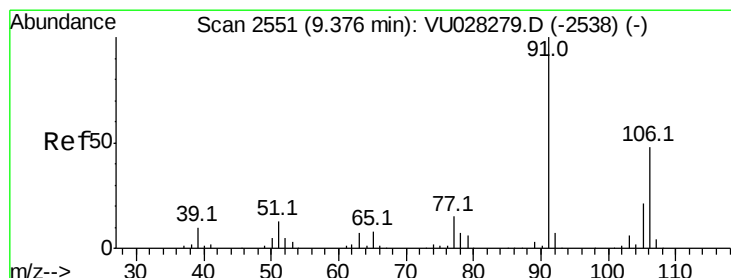
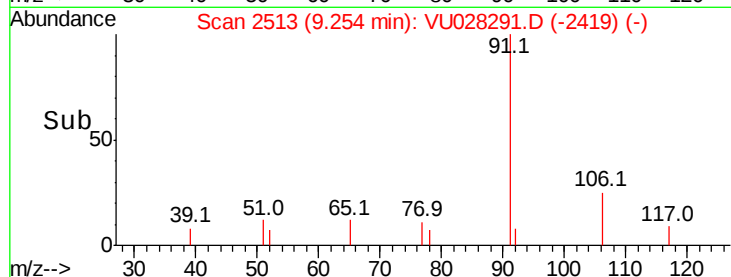
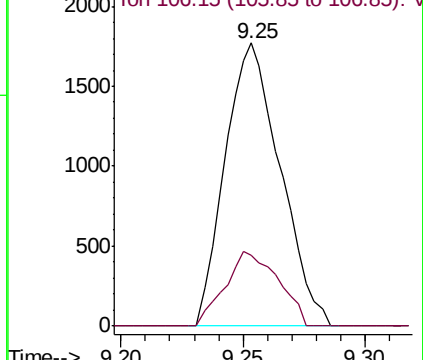
Ion Ratio Lower Upper

91 100

106 25.0 19.3 35.9



Abundance Ion 91.15 (90.85 to 91.85): VU028279.D (-2499) (-)



#53

m,p-xylene

Concen: 0.208 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028291.D

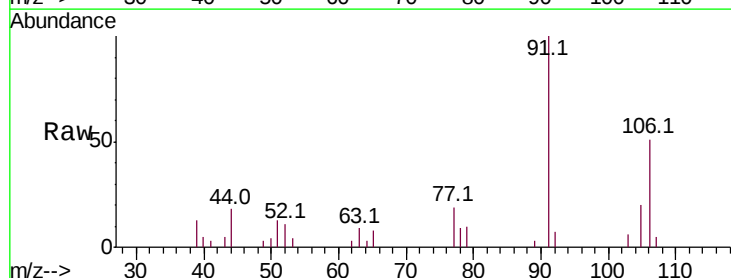
Acq: 20 Nov 2018 20:32

Tgt Ion: 106 Resp: 3238

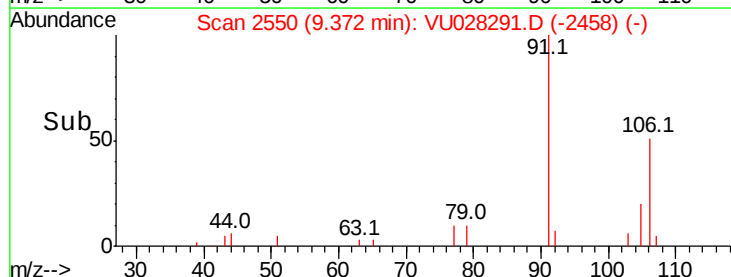
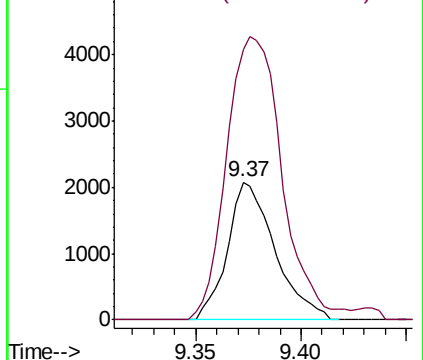
Ion Ratio Lower Upper

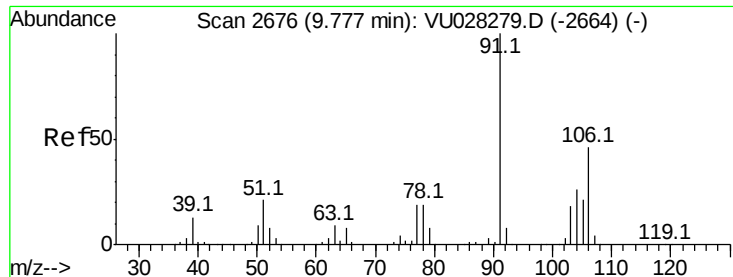
106 100

91 195.8 150.6 279.6



Abundance Ion 106.15 (105.85 to 106.85): VU028279.D (-2538) (-)





#54

o-xylene

Concen: 0.111 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Instrument :

MSVOA_U

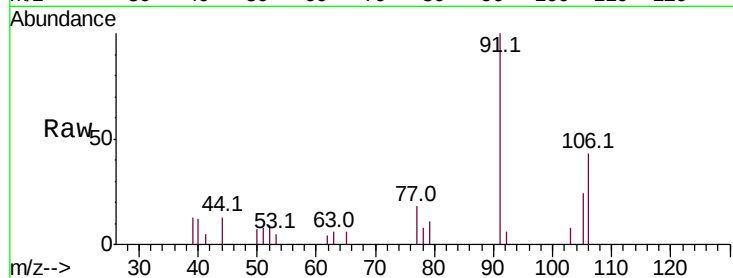
ClientSampleId :

Tot Ion:106 Resp: 1720

Ion Ratio Lower Upper

106 100

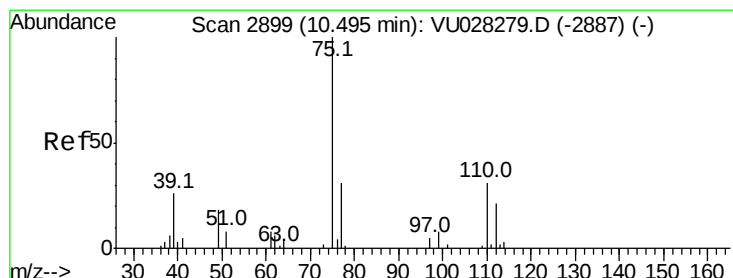
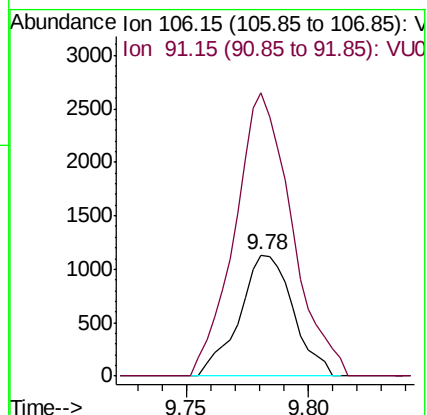
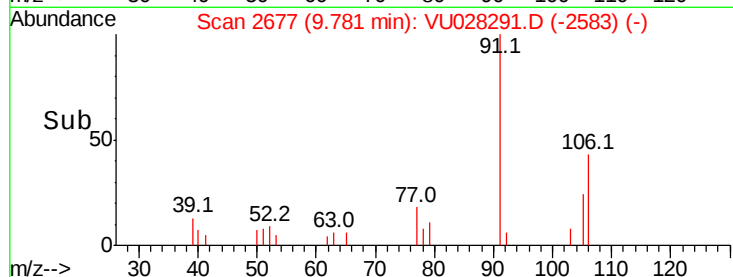
91 233.0 157.5 292.5



Abundance Ion 106.15 (105.85 to 106.85): VU028279.D (-2664) (-)

Ion 91.15 (90.85 to 91.85): VU028279.D (-2664) (-)

Time-->



#59

1,2,3-Trichloropropane

Concen: 1.140 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU028291.D

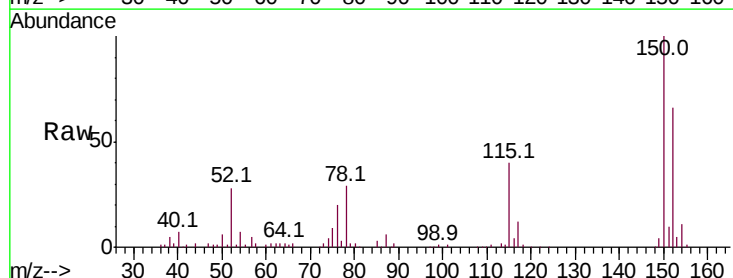
Acq: 20 Nov 2018 20:32

Tgt Ion: 75 Resp: 7726

Ion Ratio Lower Upper

75 100

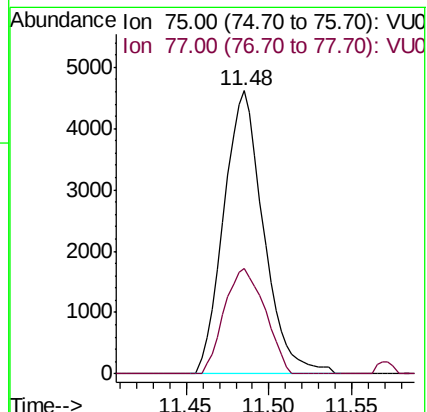
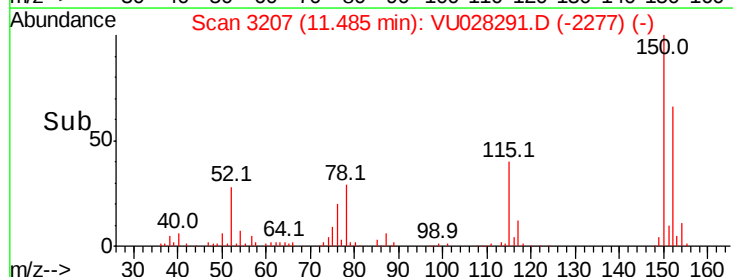
77 37.8 25.7 38.5

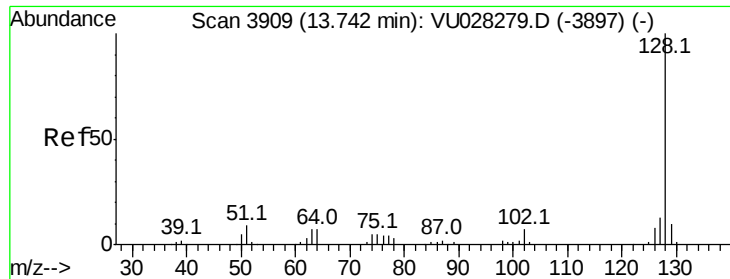


Abundance Ion 75.00 (74.70 to 75.70): VU028279.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU028279.D (-2887) (-)

Time-->





#69

Naphthalene

Concen: 0.084 ug/L

RT: 13.76 min Scan# 3914

Delta R.T. 0.02 min

Lab File: VU028291.D

Acq: 20 Nov 2018 20:32

Instrument :

MSVOA_U

ClientSampleId :

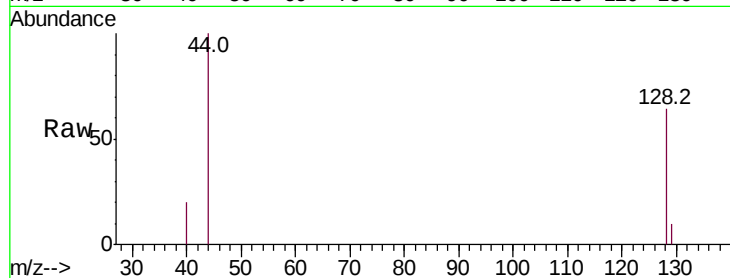
Tot Ion:128 Resp: 1557

Ion Ratio Lower Upper

128 100

129 1.2 8.6 12.8#

127 0.0 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

