

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112018\
 Data File : VU028293.D
 Acq On : 20 Nov 2018 21:20
 Operator : MD/SY
 Sample : J5997-11MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 07:12:18 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	120109	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	118337	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	50821	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	36021	3.99	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.80%
7) Chloroethane-d5	1.68	69	37898	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.20%
11) 1,1-Dichloroethene-d2	2.28	63	87287	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.00%
20) 2-Butanone-d5	4.19	46	167636	55.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.84%
24) Chloroform-d	4.65	84	86824	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.00%
26) 1,2-Dichloroethane-d4	5.31	65	49963	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.34	84	164301	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
36) 1,2-Dichloropropane-d6	6.33	67	63105	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.57	98	135201	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.60%
43) trans-1,3-Dichloropropene-	7.85	79	16211	4.10	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.00%
46) 2-Hexanone-d5	8.31	63	115603	48.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.58%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	47233	5.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	49375	5.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.70	64	764	0.106	ug/L #	62
9) Trichlorofluoromethane	1.89	101	1682	0.118	ug/L #	77
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	463	0.059	ug/L #	21
12) 1,1-Dichloroethene	2.29	96	45547	6.160	ug/L	86
13) Acetone	2.32	43	15498	7.450	ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	891	0.113	ug/L	79
19) 1,1-Dichloroethane	3.45	63	71005	3.888	ug/L	97
22) cis-1,2-Dichloroethene	4.23	96	9243	0.993	ug/L	98
25) Chloroform	4.68	83	7442	0.377	ug/L	94
27) 1,2-Dichloroethane	5.39	62	2230	0.197	ug/L #	78
29) 1,1,1-Trichloroethane	4.92	97	50460	3.782	ug/L	97
31) Carbon tetrachloride	4.92	117	6178	0.564	ug/L	95
33) Benzene	5.39	78	211831	5.425	ug/L	100
34) Trichloroethene	6.19	95	62201	6.507	ug/L	97
35) Methylcyclohexane	6.33	83	12526	0.832	ug/L #	13
37) 1,2-Dichloropropane	6.34	63	6153	0.552	ug/L #	93
38) Bromodichloromethane	6.77	83	1535	0.126	ug/L #	84

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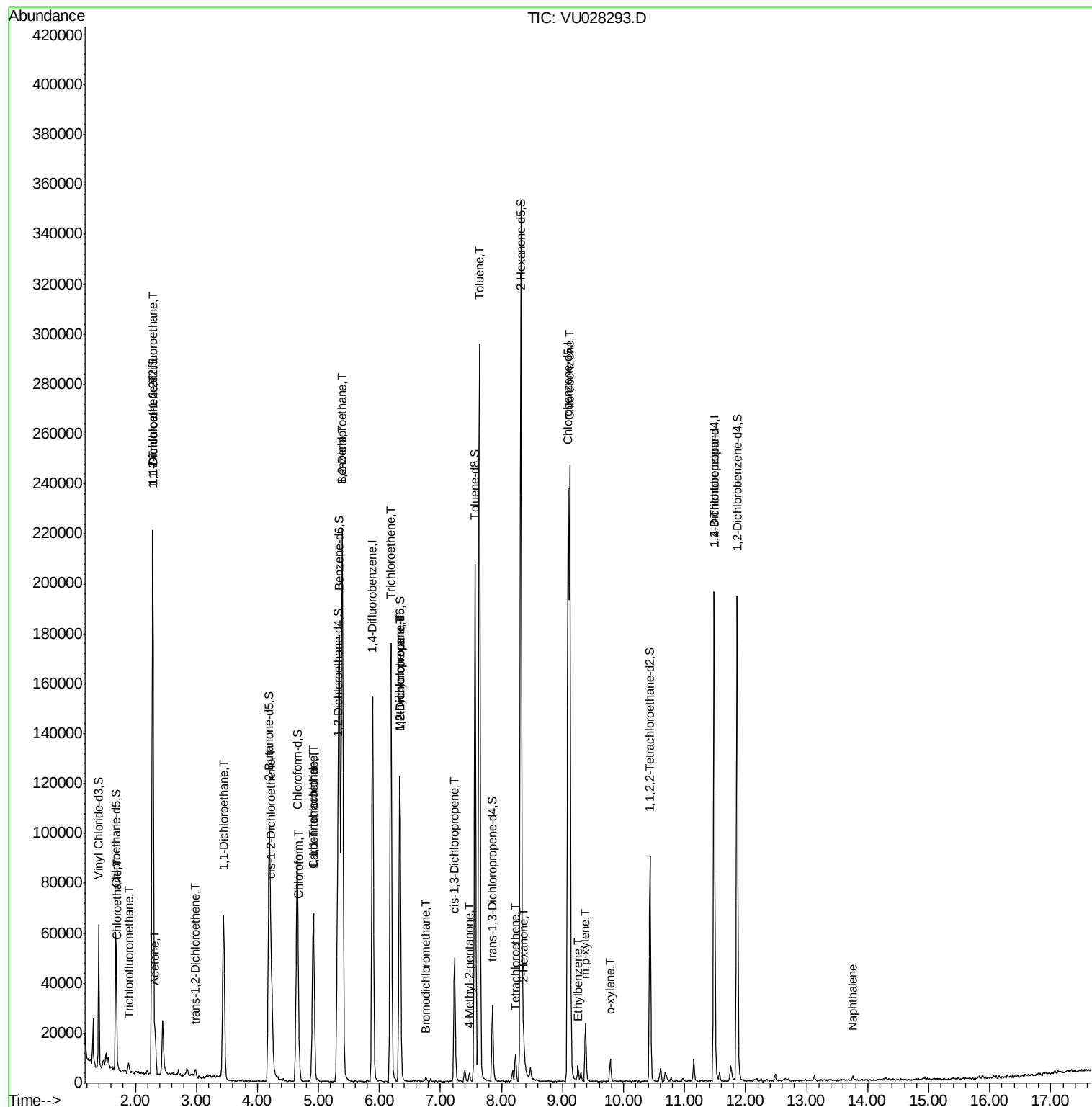
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.23	75	1105	0.078	uq/L	96
40) 4-Methyl-2-pentanone	7.47	43	2698	0.339	uq/L #	88
42) Toluene	7.64	91	214022	5.408	uq/L	98
47) Tetrachloroethene	8.23	164	2606	0.393	uq/L	79
48) 2-Hexanone	8.37	43	3821	0.673	uq/L #	95
51) Chlorobenzene	9.12	112	119267	5.233	uq/L	96
52) Ethylbenzene	9.25	91	3859	0.091	uq/L	95
53) m,p-xylene	9.38	106	6385	0.432	uq/L	95
54) o-xylene	9.78	106	2227	0.151	uq/L	78
59) 1,2,3-Trichloropropane	11.48	75	7139	1.109	uq/L #	86
69) Naphthalene	13.76	128	1835	0.104	uq/L #	82

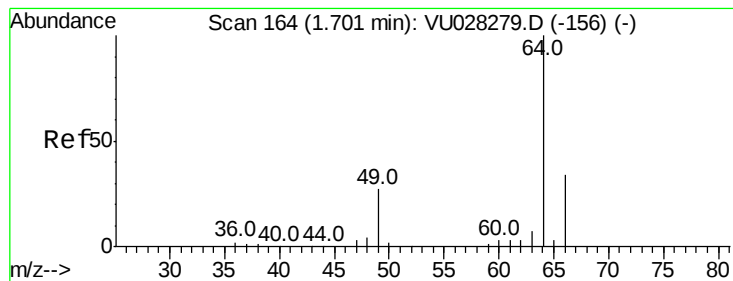
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.106 ug/L

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

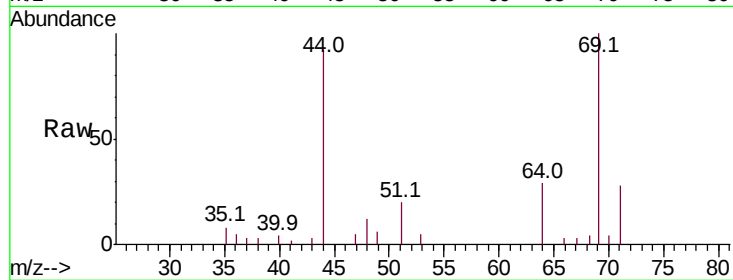
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 64 Resp: 764

Ion Ratio Lower Upper

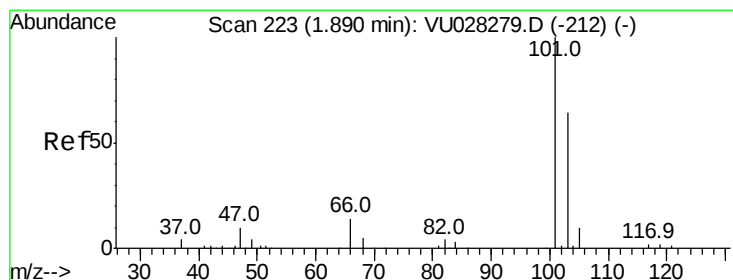
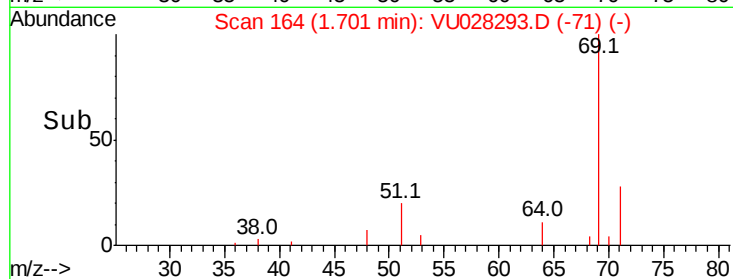
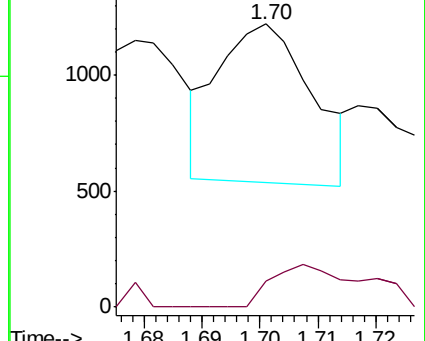
64 100

66 9.0 20.7 38.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 0.118 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU028293.D

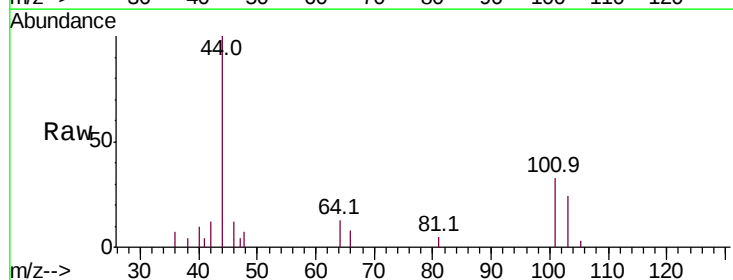
Acq: 20 Nov 2018 21:20

Tgt Ion: 101 Resp: 1682

Ion Ratio Lower Upper

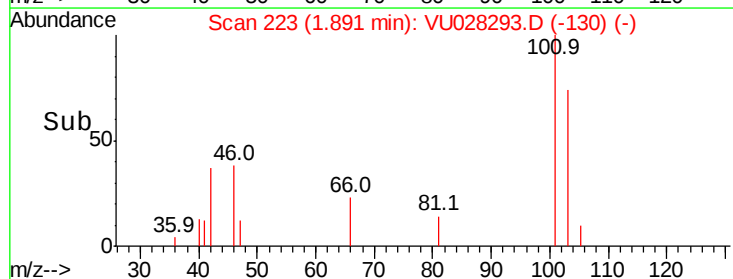
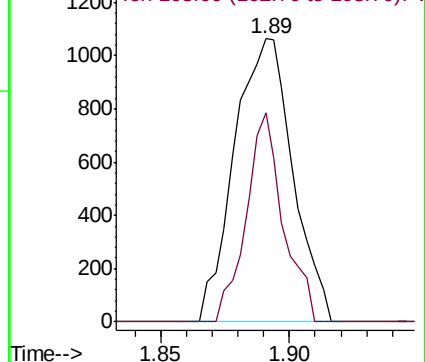
101 100

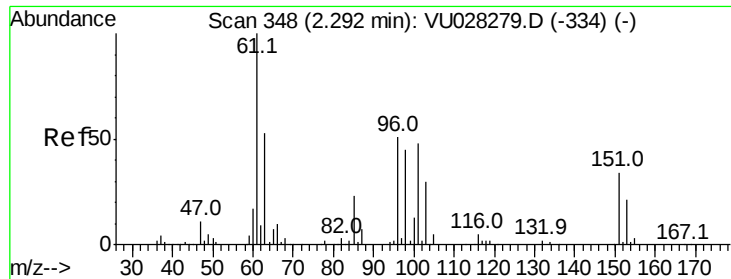
103 46.9 51.7 77.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.059 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

Instrument :

MSVOA_U

ClientSampled :

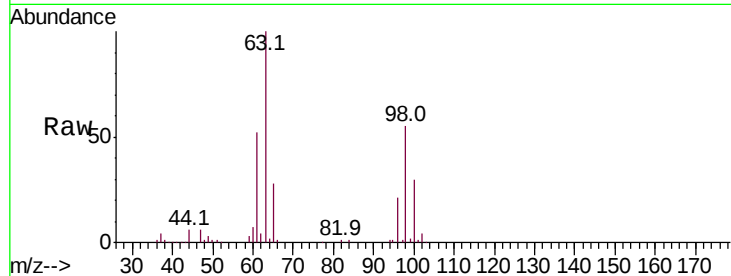
Tot Ion:101 Resp: 463

Ion Ratio Lower Upper

101 100

85 0.0 37.4 56.2#

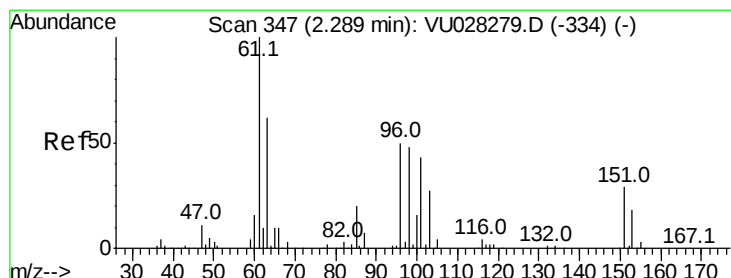
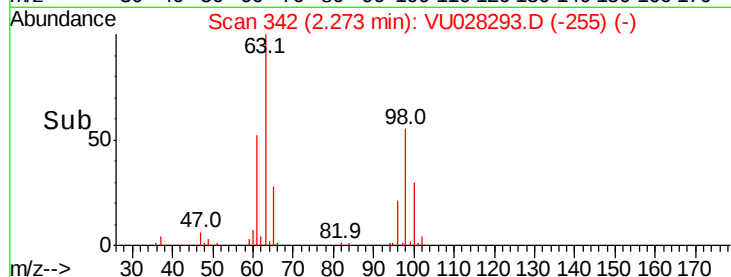
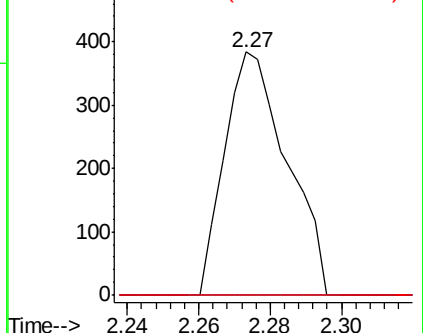
151 0.0 55.0 82.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 6.160 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

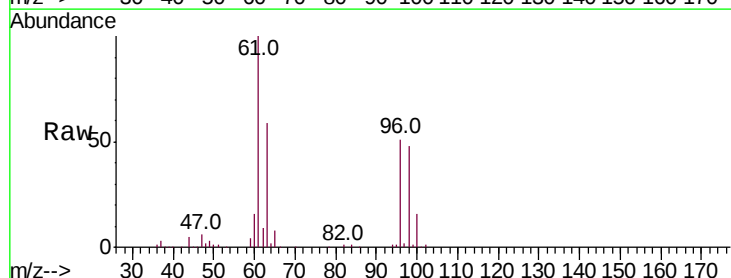
Tgt Ion: 96 Resp: 45547

Ion Ratio Lower Upper

96 100

61 194.7 145.5 270.1

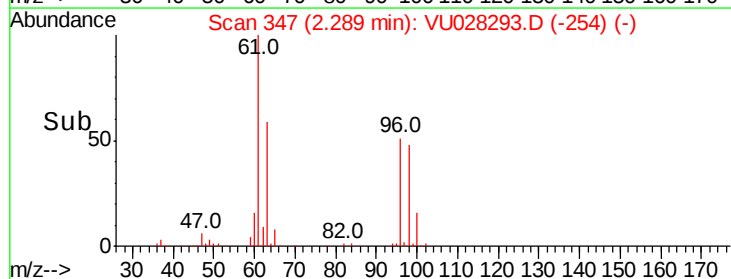
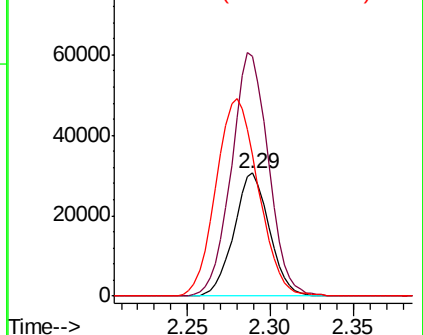
63 114.5 98.6 183.2

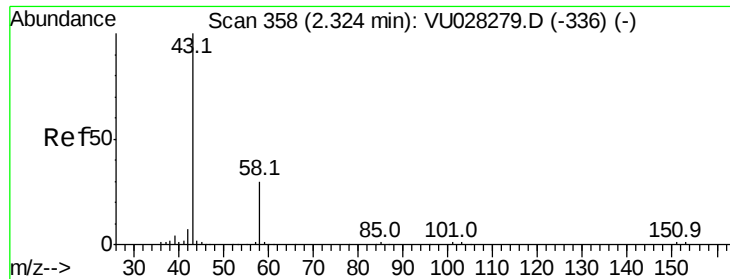


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 7.450 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

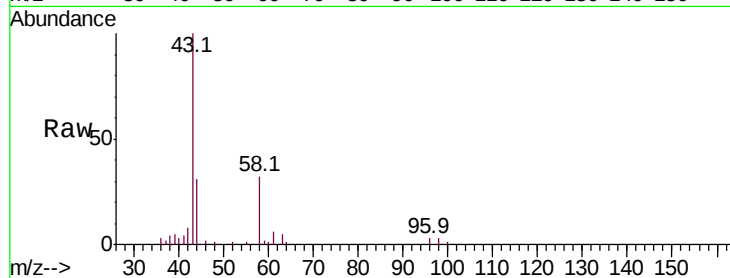
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 15498

Ion Ratio Lower Upper

43 100

58 30.2 0.0 58.6



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

Ion 58.05 (57.75 to 58.75): VU028279.D (-336) (-)

2.32

10000

8000

6000

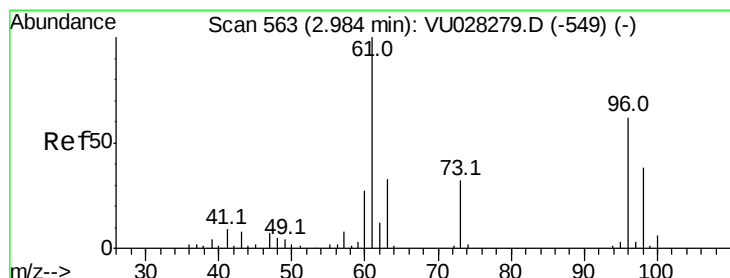
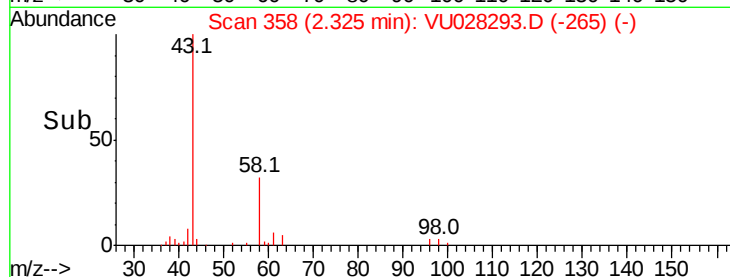
4000

2000

0

Time-->

2.25 2.30 2.35 2.40



#18

trans-1,2-Dichloroethene

Concen: 0.113 ug/L

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

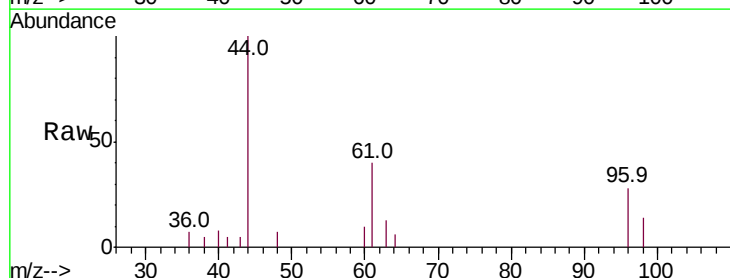
Tgt Ion: 96 Resp: 891

Ion Ratio Lower Upper

96 100

61 143.7 122.2 227.0

98 49.2 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU028279.D (-549) (-)

Ion 61.05 (60.75 to 61.75): VU028279.D (-549) (-)

Ion 97.95 (97.65 to 98.65): VU028279.D (-549) (-)

2.98

1200

1000

800

600

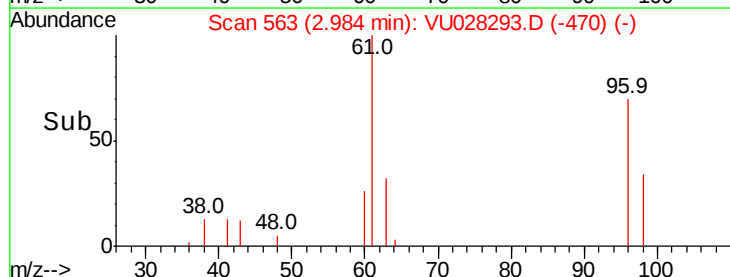
400

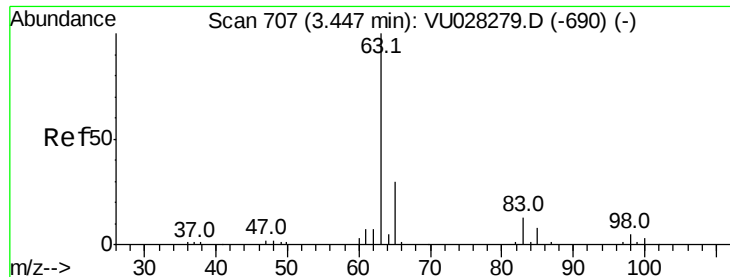
200

0

Time-->

2.94 2.96 2.98 3.00 3.02





#19

1,1-Dichloroethane

Concen: 3.888 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

Instrument :

MSVOA_U

ClientSampleId :

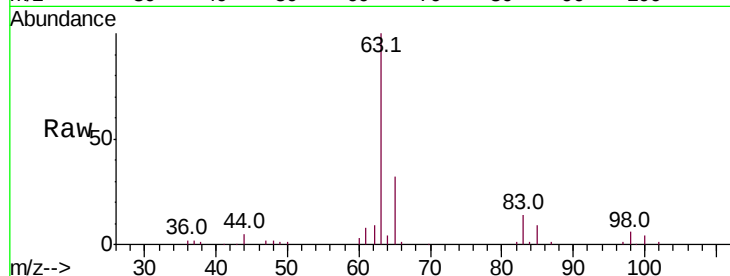
Tot Ion: 63 Resp: 71005

Ion Ratio Lower Upper

63 100

65 32.2 21.2 39.4

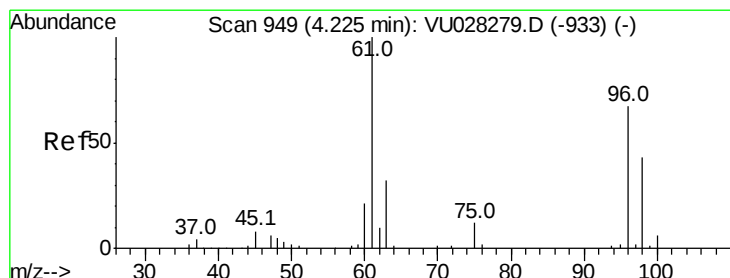
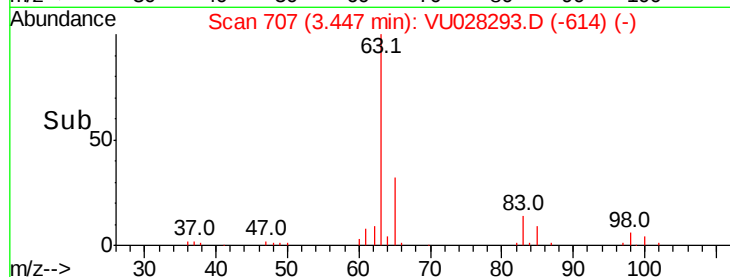
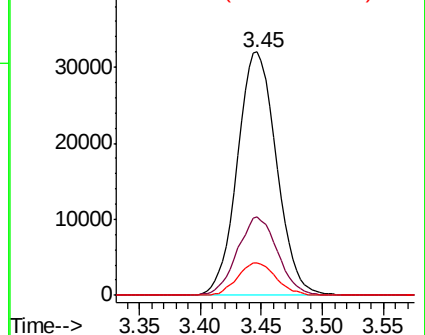
83 13.5 8.8 16.4



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#22

cis-1,2-Dichloroethene

Concen: 0.993 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

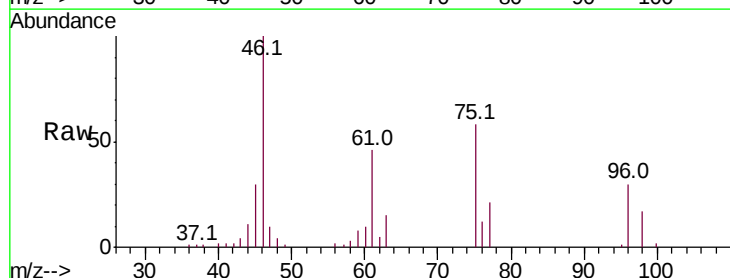
Tgt Ion: 96 Resp: 9243

Ion Ratio Lower Upper

96 100

61 151.1 108.0 200.6

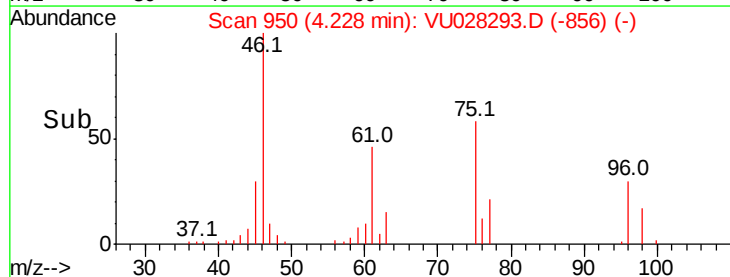
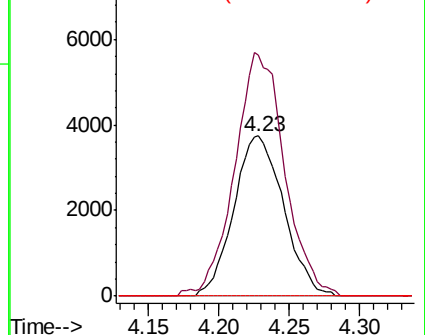
68 0.0 0.0 0.0

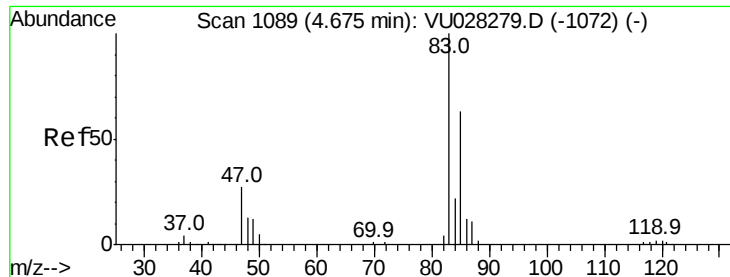


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0

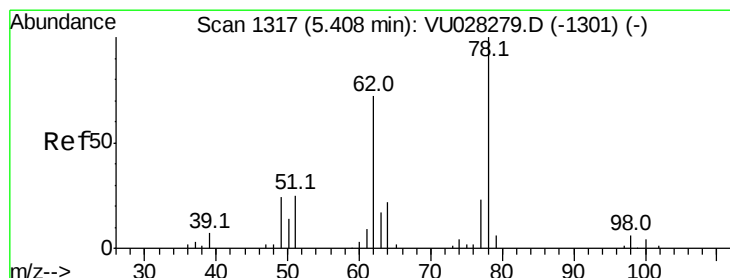
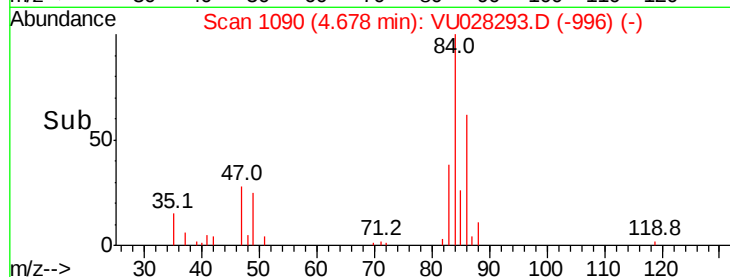
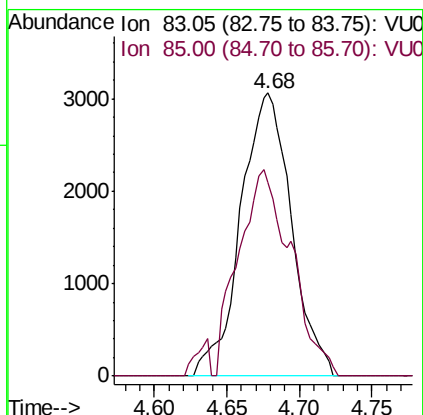
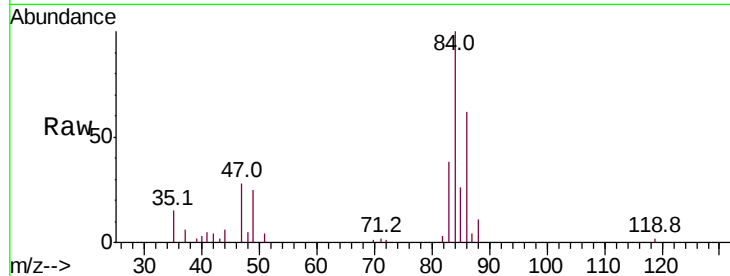




#25
Chloroform
Concen: 0.377 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

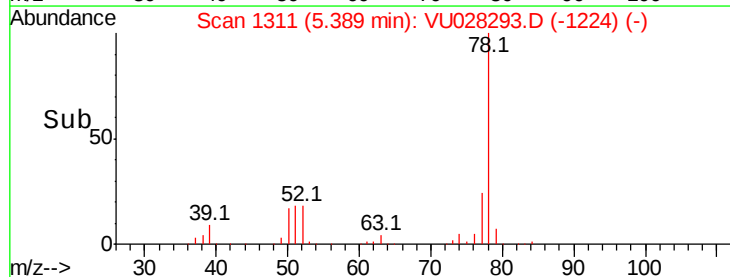
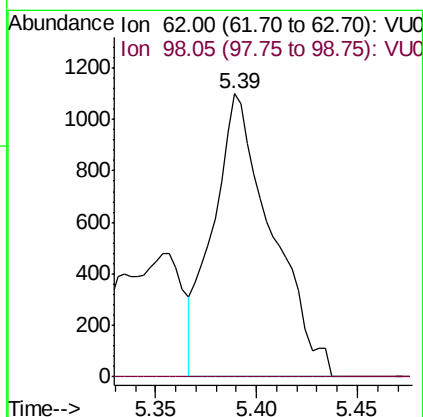
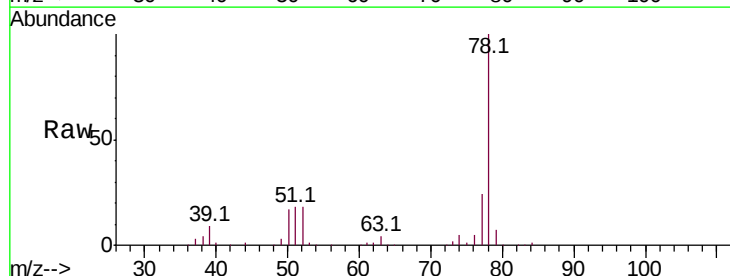
Instrument :
MSVOA_U
ClientSampled :

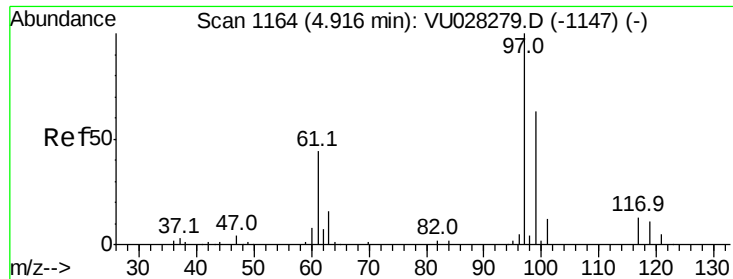
Tot Ion: 83 Resp: 7442
Ion Ratio Lower Upper
83 100
85 68.7 44.6 82.8



#27
1,2-Dichloroethane
Concen: 0.197 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.02 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

Tgt Ion: 62 Resp: 2230
Ion Ratio Lower Upper
62 100
98 0.0 6.2 9.4#

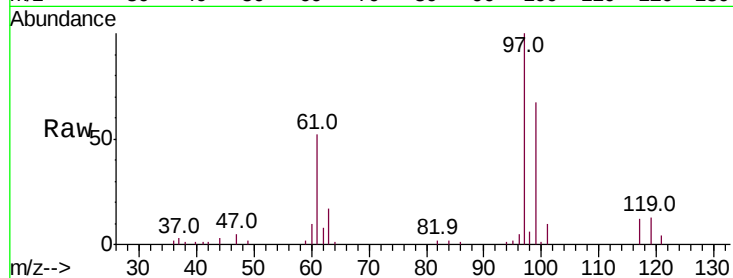




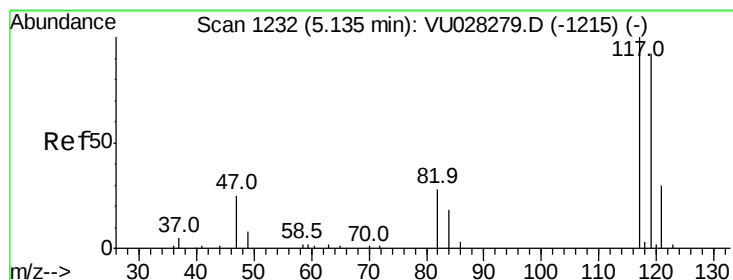
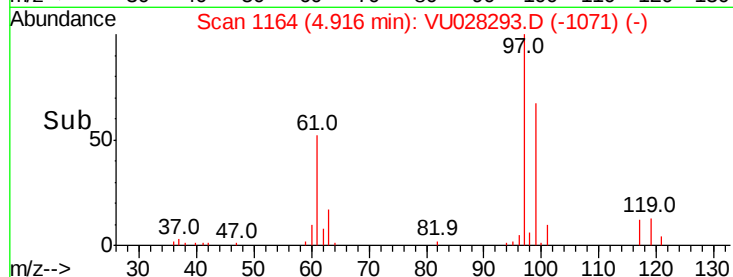
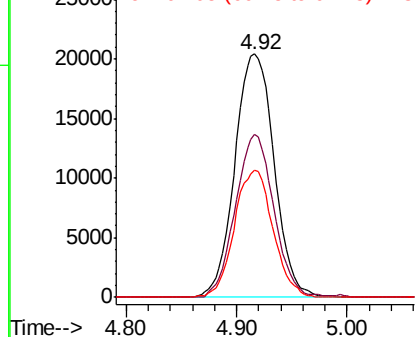
#29
 1,1,1-Trichloroethane
 Concen: 3.782 ug/L
 RT: 4.92 min Scan# 1164
 Delta R.T. 0.00 min
 Lab File: VU028293.D
 Acq: 20 Nov 2018 21:20

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 50460
 Ion Ratio Lower Upper
 97 100
 99 65.3 50.8 76.2
 61 51.0 42.6 64.0

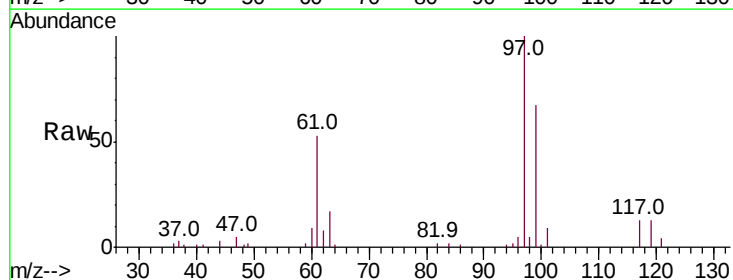


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

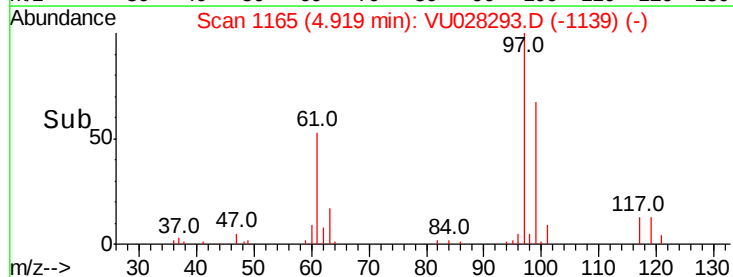
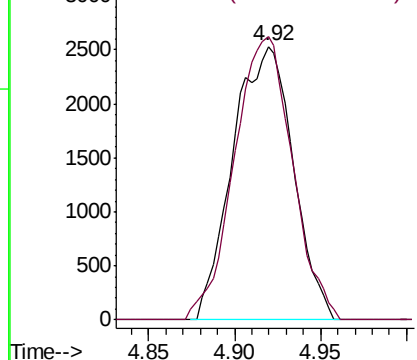


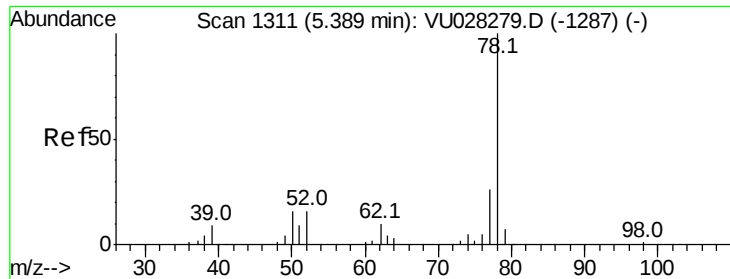
#31
 Carbon tetrachloride
 Concen: 0.564 ug/L
 RT: 4.92 min Scan# 1165
 Delta R.T. -0.22 min
 Lab File: VU028293.D
 Acq: 20 Nov 2018 21:20

Tgt Ion: 117 Resp: 6178
 Ion Ratio Lower Upper
 117 100
 119 99.8 75.6 113.4



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 5.425 ug/L

RT: 5.39 min Scan# 1312

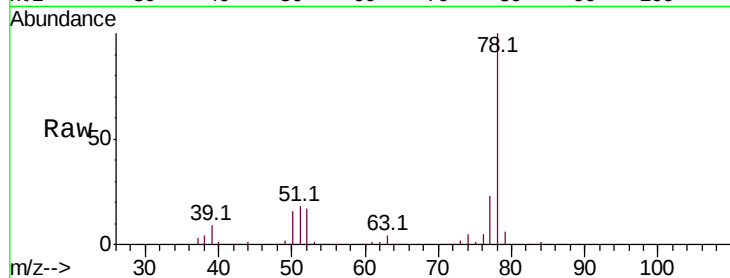
Delta R.T. 0.00 min

Lab File: VU028293.D

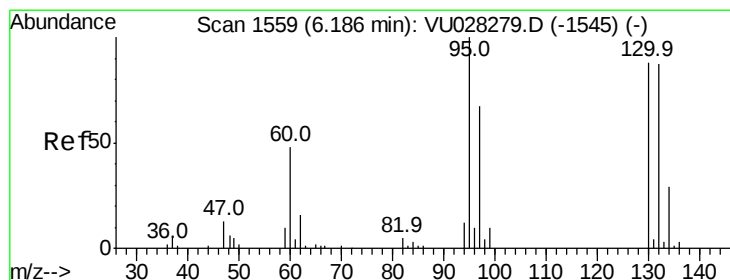
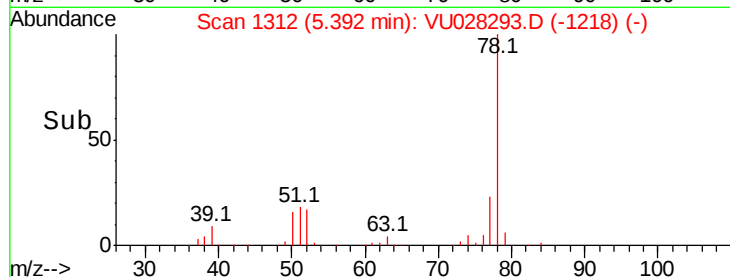
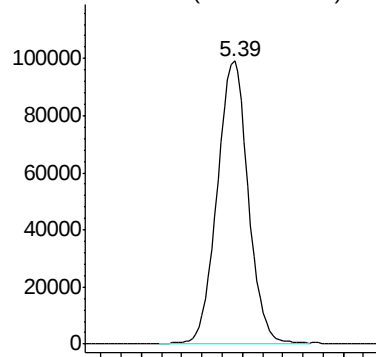
Acq: 20 Nov 2018 21:20

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 211831



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 6.507 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

Tgt Ion: 95 Resp: 62201

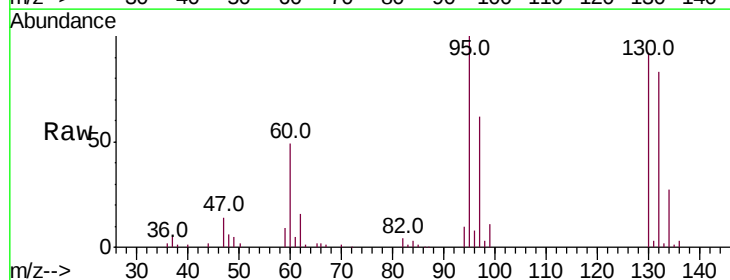
Ion	Ratio	Lower	Upper
95	100		
97	61.6	46.5	86.3
132	83.4	58.9	109.3
130	91.5	61.3	113.9

95 100

97 61.6 46.5 86.3

132 83.4 58.9 109.3

130 91.5 61.3 113.9

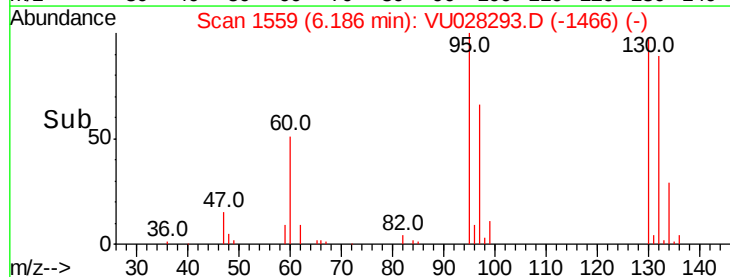
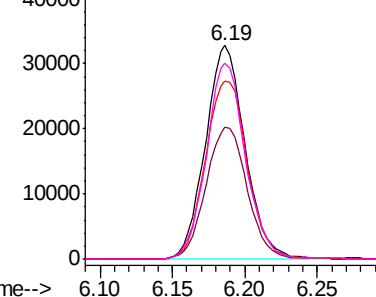


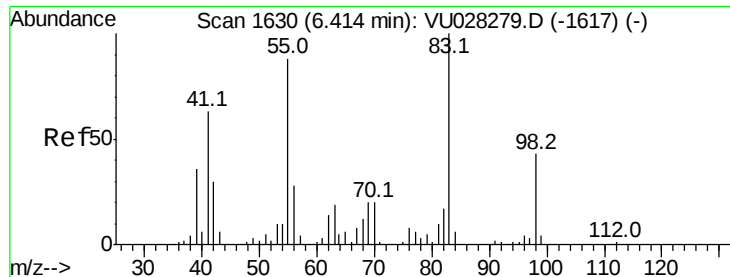
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

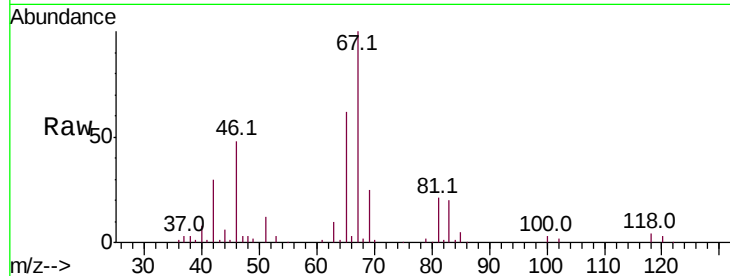




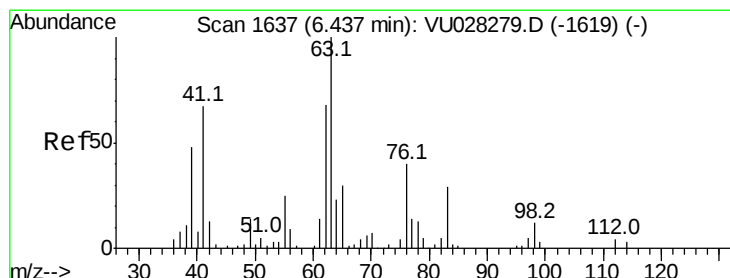
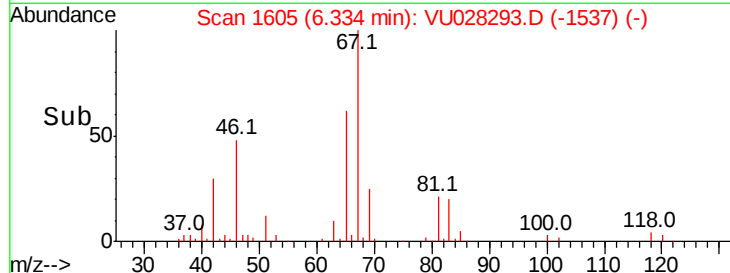
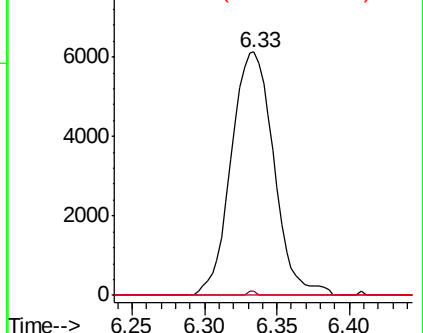
#35
Methvlcvclohexane
Concen: 0.832 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 12526
Ion Ratio Lower Upper
83 100
55 0.4 73.2 109.8#
98 0.0 33.4 50.2#

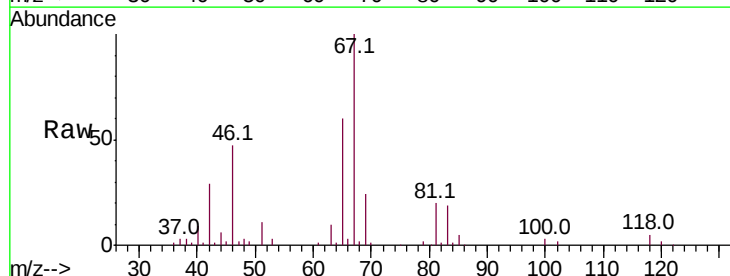


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

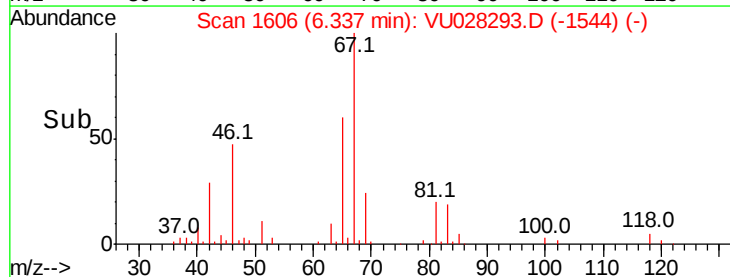
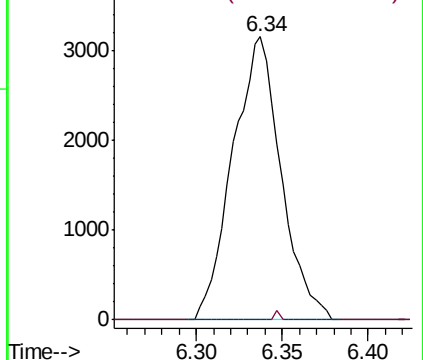


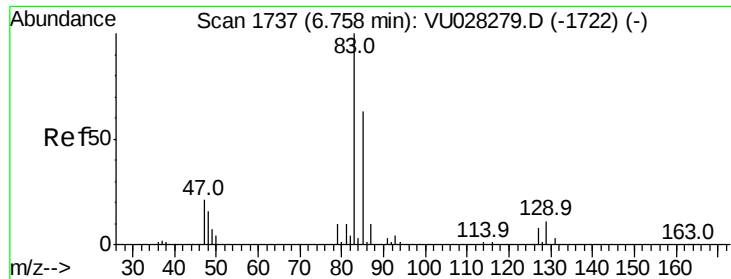
#37
1,2-Dichloropropane
Concen: 0.552 ug/L
RT: 6.34 min Scan# 1606
Delta R.T. -0.10 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

Tgt Ion: 63 Resp: 6153
Ion Ratio Lower Upper
63 100
112 0.3 2.2 3.2#



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





#38

Bromodichloromethane

Concen: 0.126 ug/L

RT: 6.77 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

Instrument :

MSVOA_U

ClientSampleId :

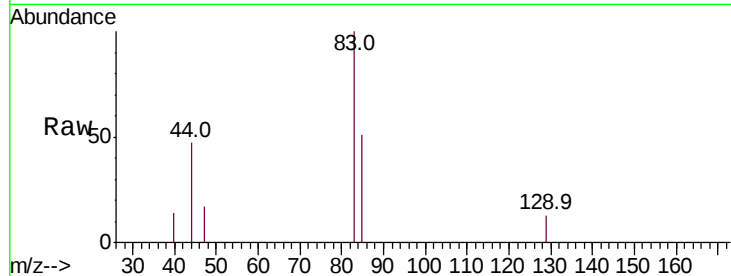
Tot Ion: 83 Resp: 1535

Ion Ratio Lower Upper

83 100

85 51.2 44.2 82.0

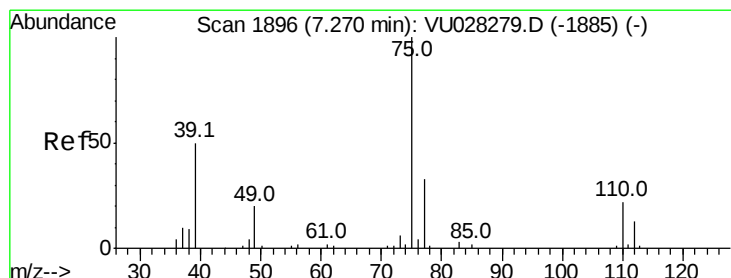
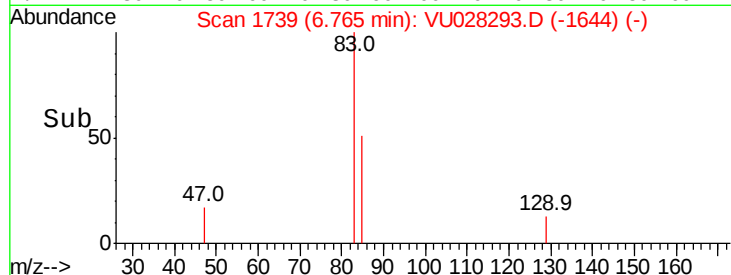
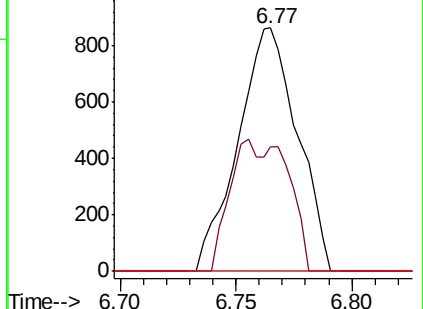
127 0.0 6.2 9.4#



Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V



#39

cis-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 7.23 min Scan# 1884

Delta R.T. -0.04 min

Lab File: VU028293.D

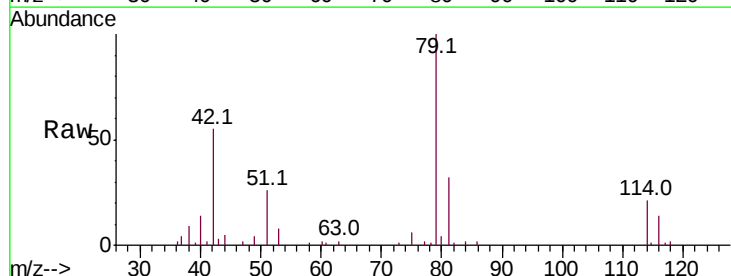
Acq: 20 Nov 2018 21:20

Tgt Ion: 75 Resp: 1105

Ion Ratio Lower Upper

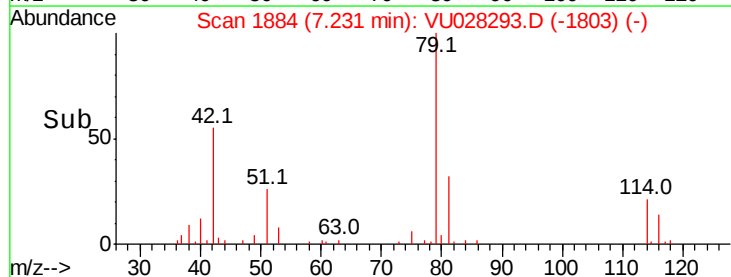
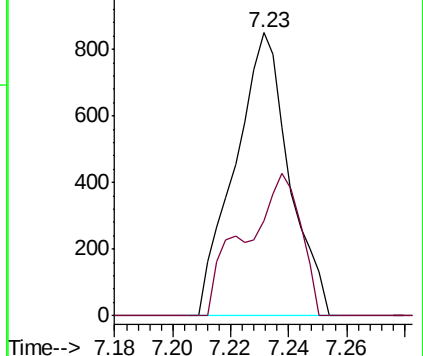
75 100

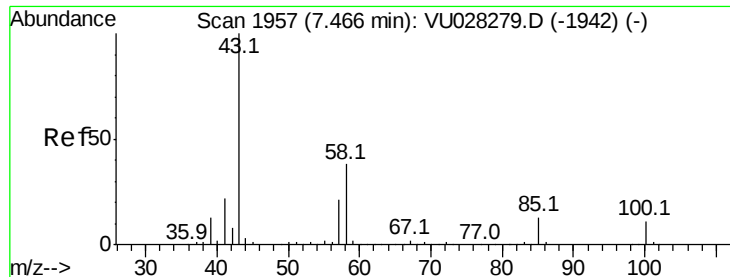
77 33.4 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#40

4-Methyl-2-pentanone

Concen: 0.339 ug/L

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

Instrument :
MSVOA_U
ClientSampleId :

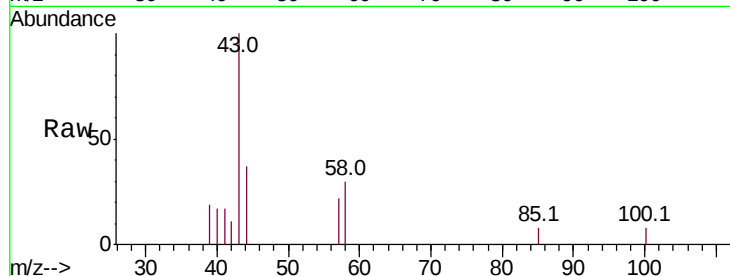
Tot Ion: 43 Resp: 2698

Ion Ratio Lower Upper

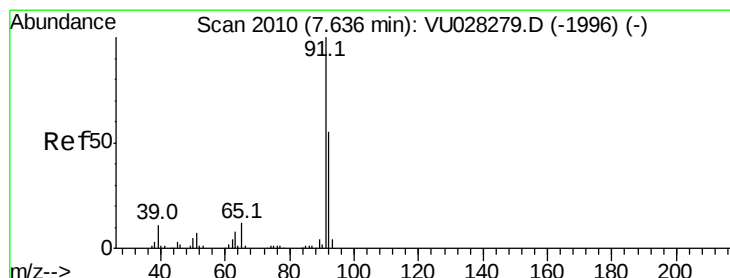
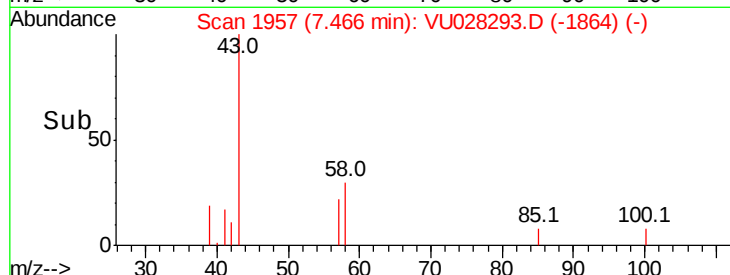
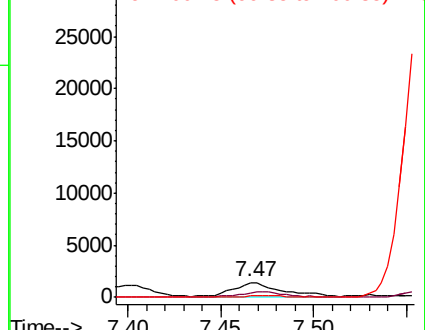
43 100

58 31.6 28.8 43.2

100 0.0 8.0 12.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 100.15 (99.85 to 100.85): VU0



#42

Toluene

Concen: 5.408 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028293.D

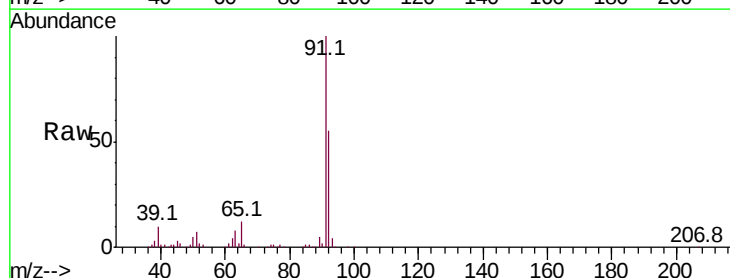
Acq: 20 Nov 2018 21:20

Tgt Ion: 91 Resp: 214022

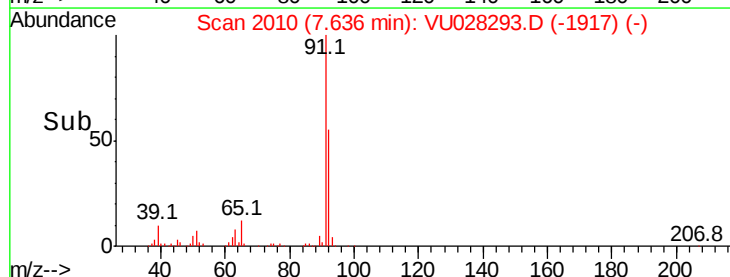
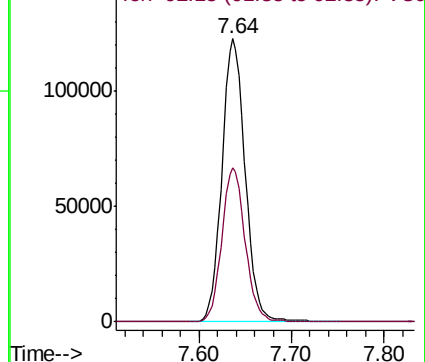
Ion Ratio Lower Upper

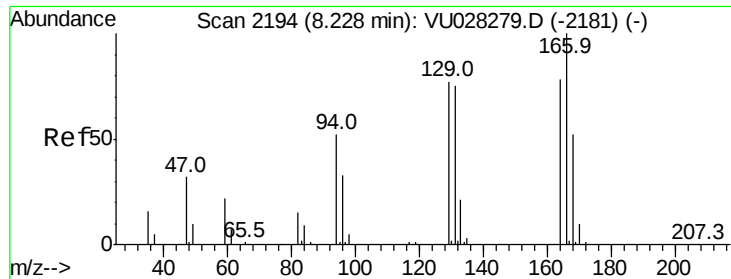
91 100

92 54.6 39.0 72.4



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

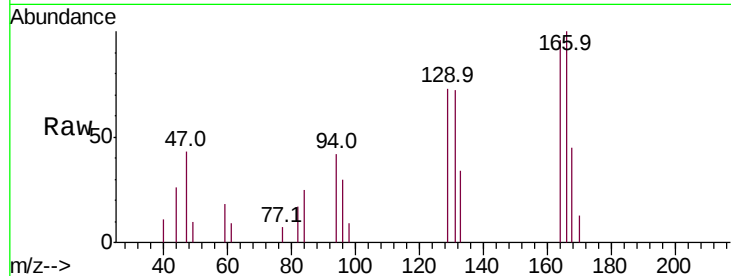




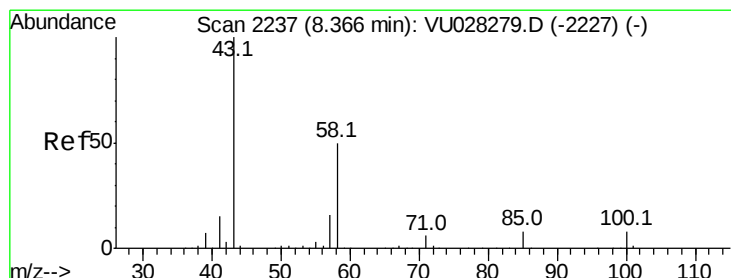
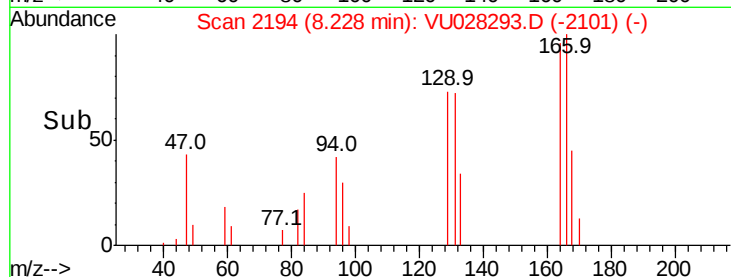
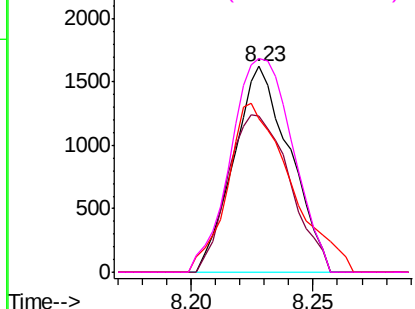
#47
Tetrachloroethene
Concen: 0.393 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 2606
Ion Ratio Lower Upper
164 100
129 75.8 67.6 125.6
131 74.8 66.3 123.1
166 103.7 89.2 165.6

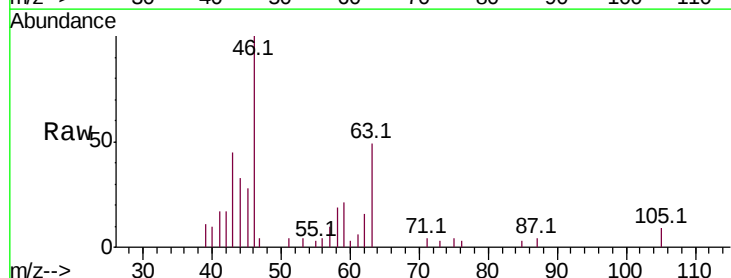


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

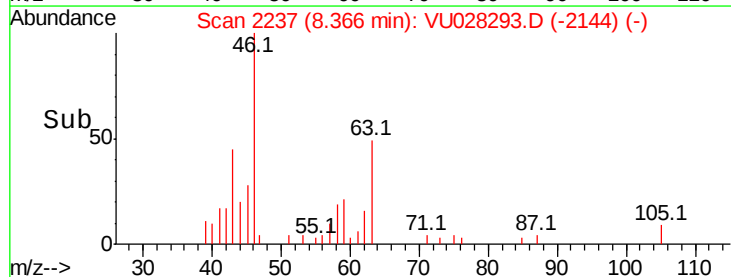
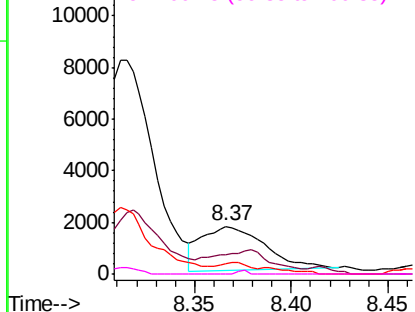


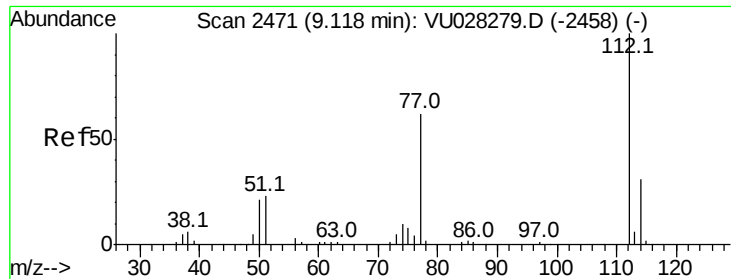
#48
2-Hexanone
Concen: 0.673 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

Tgt Ion: 43 Resp: 3821
Ion Ratio Lower Upper
43 100
58 52.9 41.1 61.7
57 19.5 13.8 20.8
100 1.3 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

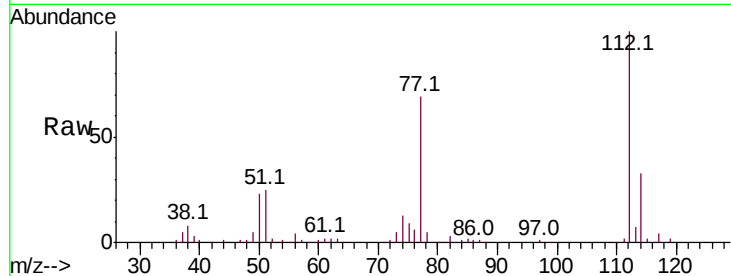




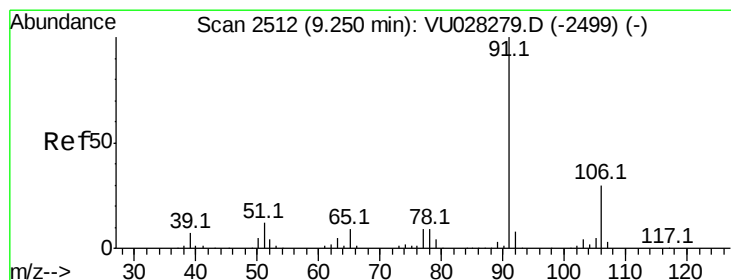
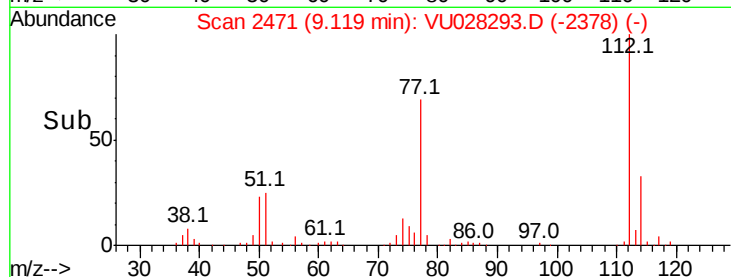
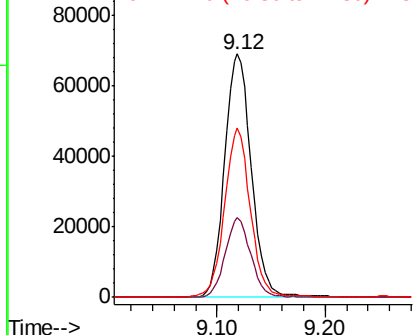
#51
Chlorobenzene
Concen: 5.233 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:112 Resp: 119267
Ion Ratio Lower Upper
112 100
114 32.8 22.3 41.5
77 69.4 52.4 78.6

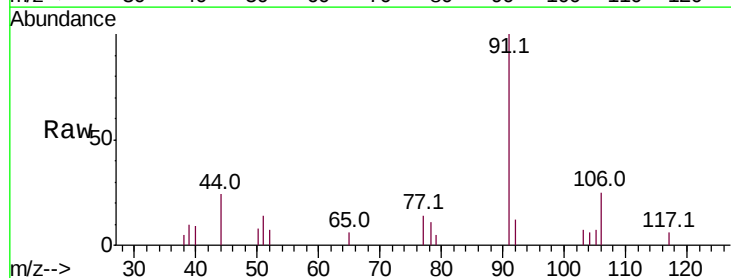


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

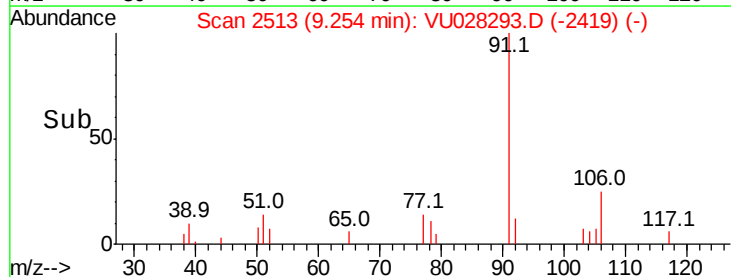
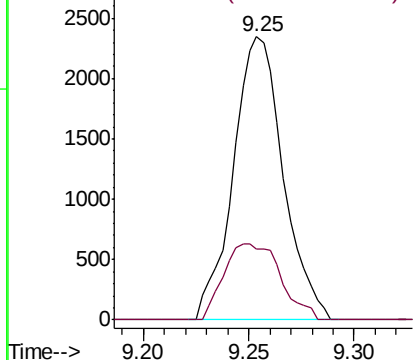


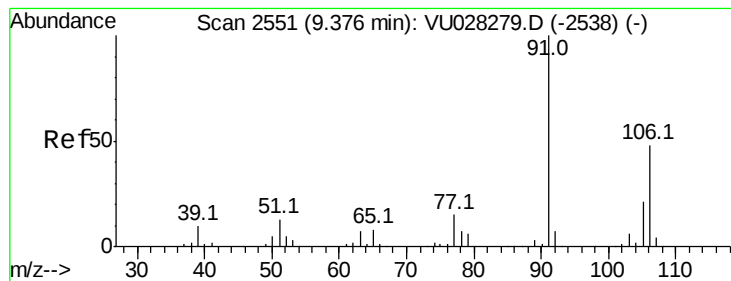
#52
Ethylbenzene
Concen: 0.091 ug/L
RT: 9.25 min Scan# 2513
Delta R.T. 0.00 min
Lab File: VU028293.D
Acq: 20 Nov 2018 21:20

Tgt Ion: 91 Resp: 3859
Ion Ratio Lower Upper
91 100
106 25.2 19.3 35.9



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





#53

m,p-xylene

Concen: 0.432 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028293.D

Acq: 20 Nov 2018 21:20

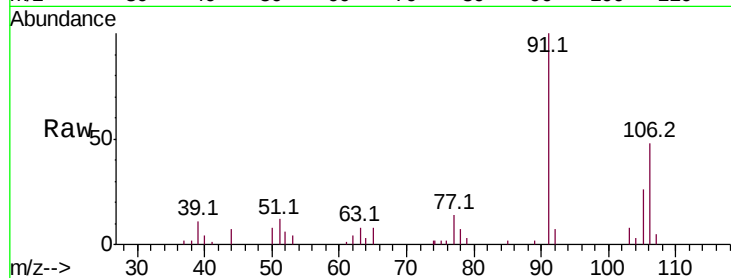
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 6385

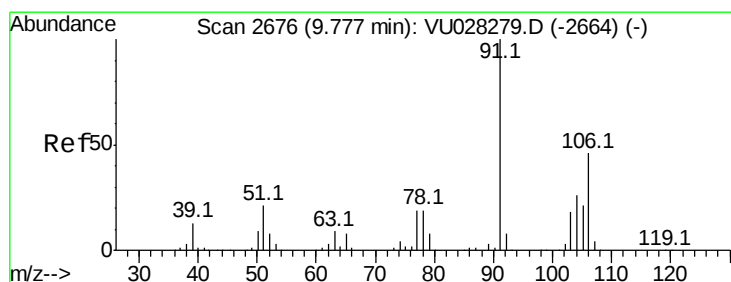
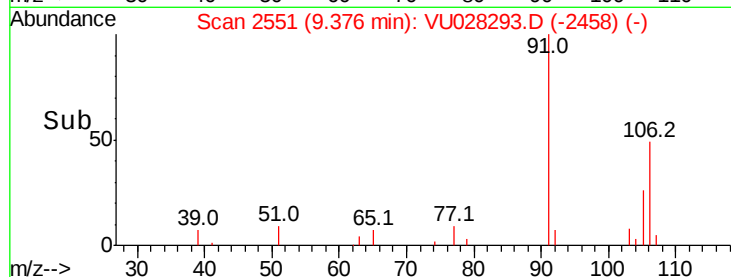
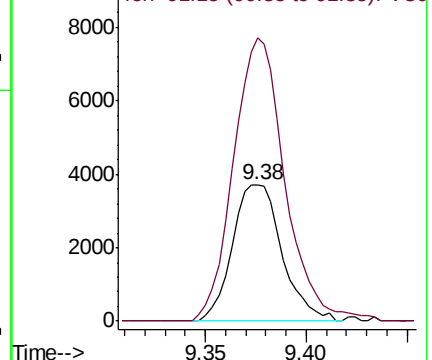
Ion Ratio Lower Upper

106 100

91 207.0 150.6 279.6



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



#54

o-xylene

Concen: 0.151 ug/L

RT: 9.78 min Scan# 2678

Delta R.T. 0.01 min

Lab File: VU028293.D

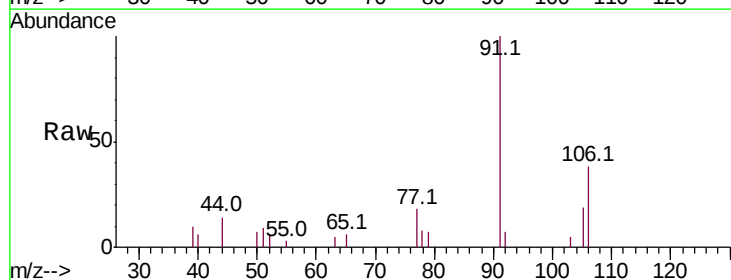
Acq: 20 Nov 2018 21:20

Tgt Ion:106 Resp: 2227

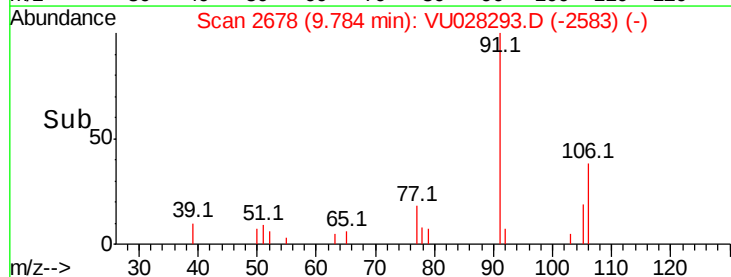
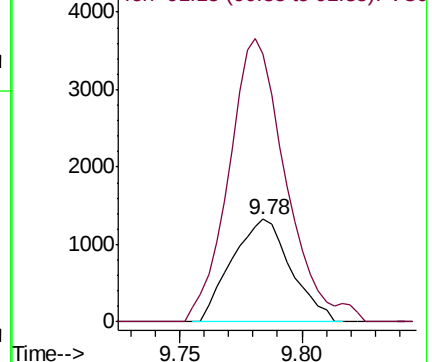
Ion Ratio Lower Upper

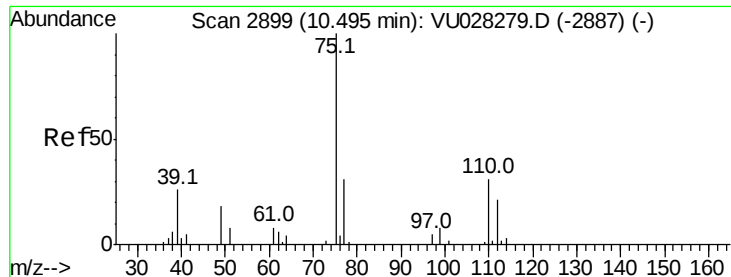
106 100

91 260.8 157.5 292.5



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

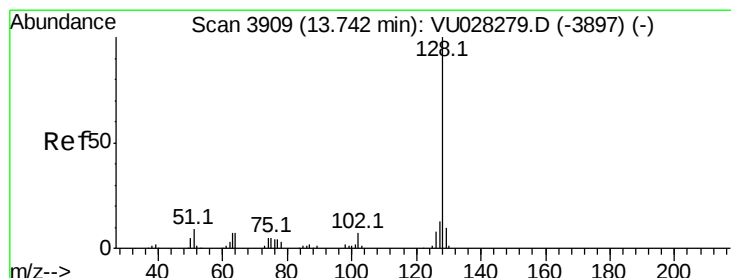
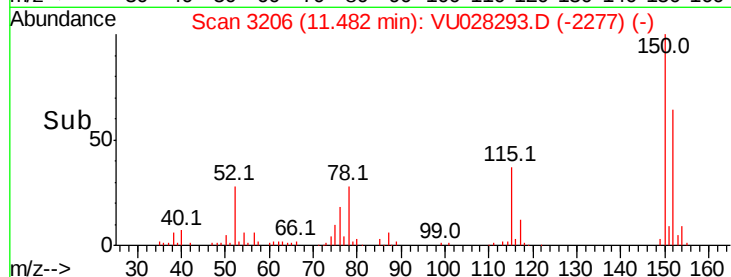
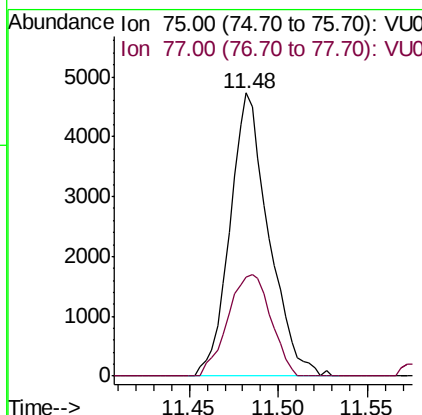
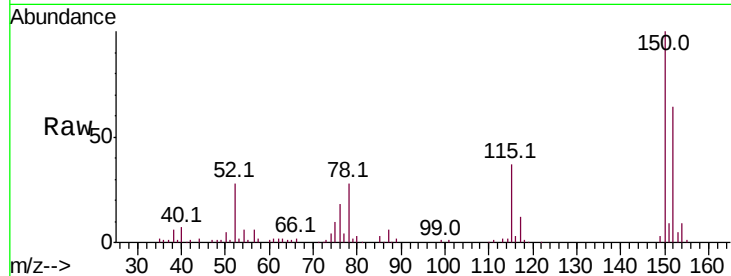




#59
 1,2,3-Trichloropropane
 Concen: 1.109 ug/L
 RT: 11.48 min Scan# 3206
 Delta R.T. 0.99 min
 Lab File: VU028293.D
 Acq: 20 Nov 2018 21:20

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 7139
 Ion Ratio Lower Upper
 75 100
 77 39.9 25.7 38.5#



#69
 Naphthalene
 Concen: 0.104 ug/L
 RT: 13.76 min Scan# 3913
 Delta R.T. 0.01 min
 Lab File: VU028293.D
 Acq: 20 Nov 2018 21:20

Tgt Ion: 128 Resp: 1835
 Ion Ratio Lower Upper
 128 100
 129 5.6 8.6 12.8#
 127 4.9 10.7 16.1#

