

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028276.D
 Acq On : 20 Nov 2018 14:24
 Operator : MD/SY
 Sample : J5995-09RE
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 06:37:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 21 06:33:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	132251	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	128690	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	55750	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	39572	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.68	69	37846	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.28	63	58879	2.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.40%#
20) 2-Butanone-d5	4.21	46	173185	52.00	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.00%
24) Chloroform-d	4.65	84	80261	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
26) 1,2-Dichloroethane-d4	5.31	65	45349	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.40%
32) Benzene-d6	5.34	84	153603	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.00%
36) 1,2-Dichloropropane-d6	6.33	67	59514	4.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.60%
41) Toluene-d8	7.57	98	125540	3.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.80%
43) trans-1,3-Dichloropropene-	7.85	79	16184	3.77	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.40%
46) 2-Hexanone-d5	8.32	63	120183	46.64	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.28%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	46942	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	47759	4.61	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	226425	16.868	ug/L	99
8) Chloroethane	1.70	64	3732	0.470	ug/L	95
12) 1,1-Dichloroethene	2.28	96	723	0.089	ug/L #	1
13) Acetone	2.35	43	2306	1.007	ug/L	95
15) Methyl Acetate	2.63	43	728	0.120	ug/L #	59
17) Methyl tert-butyl Ether	3.01	73	269703	11.027	ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	60684	6.997	ug/L	96
19) 1,1-Dichloroethane	3.45	63	22556	1.122	ug/L	92
22) cis-1,2-Dichloroethene	4.23	96	46235	4.510	ug/L	97
25) Chloroform	4.68	83	1266	0.058	ug/L	85
33) Benzene	5.39	78	15163	0.357	ug/L	100
34) Trichloroethene	6.19	95	3830	0.368	ug/L	91
35) Methylcyclohexane	6.33	83	11875	0.725	ug/L #	14
39) cis-1,3-Dichloropropene	7.23	75	1086	0.071	ug/L #	80
42) Toluene	7.64	91	5036	0.117	ug/L	97
47) Tetrachloroethene	8.23	164	681	0.094	ug/L #	67
48) 2-Hexanone	8.38	43	3904	0.632	ug/L #	96

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 21 06:33:43 2018
Response via : Initial Calibration

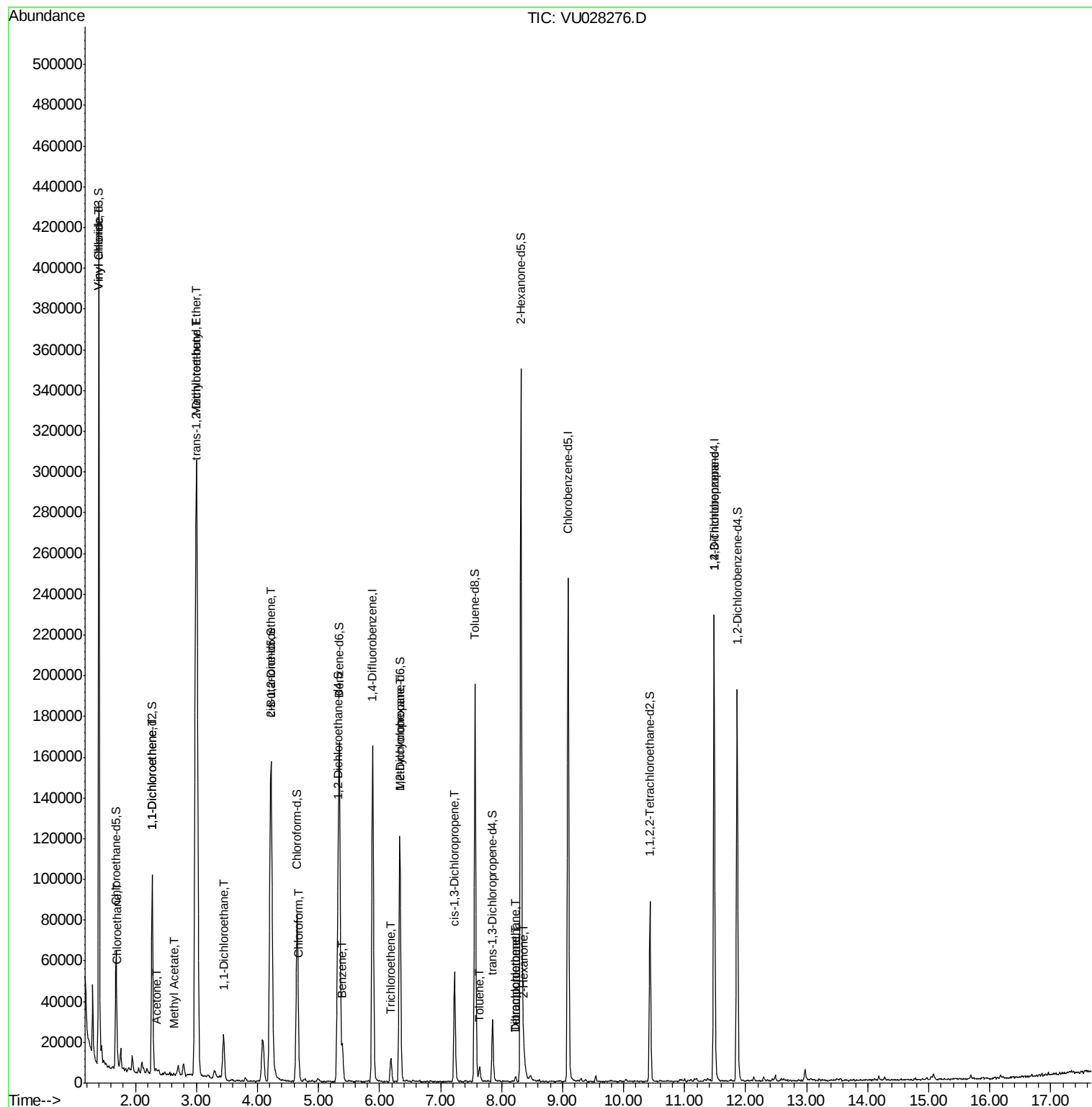
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.23	129	457	0.062	ug/L #	10
59) 1,2,3-Trichloropropane	11.48	75	8267	1.181	ug/L	91

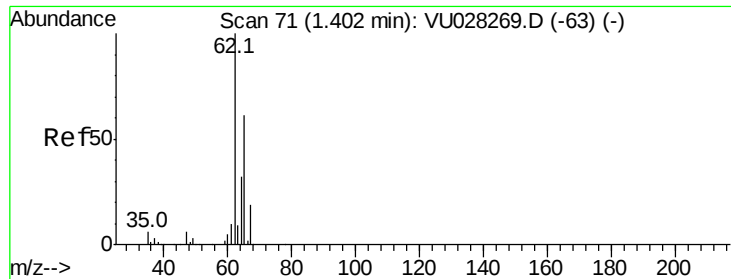
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 16.868 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

Instrument :

MSVOA_U

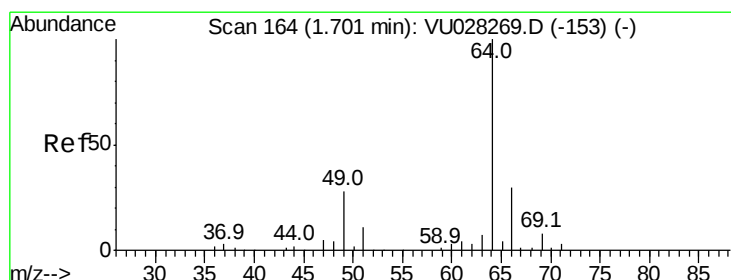
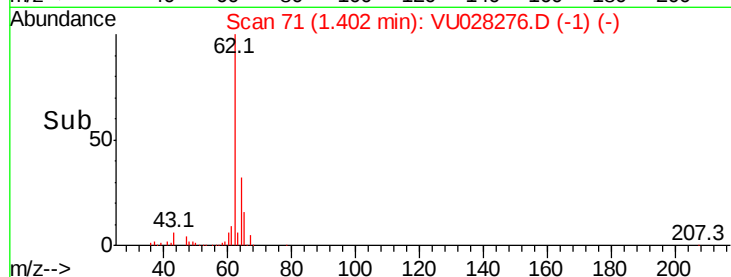
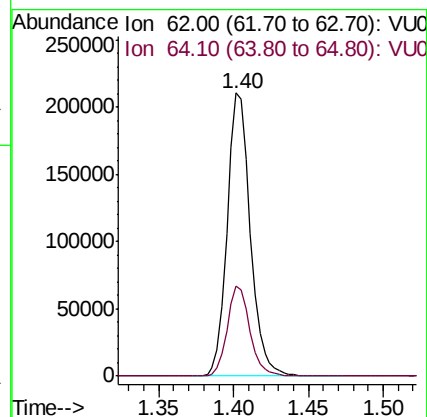
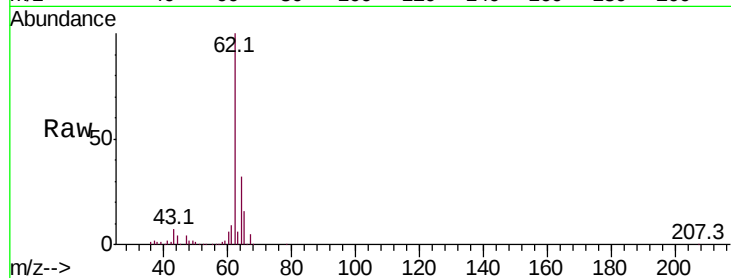
ClientSampleId :

Tot Ion: 62 Resp: 226425

Ion Ratio Lower Upper

62 100

64 31.7 21.7 40.3



#8

Chloroethane

Concen: 0.470 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU028276.D

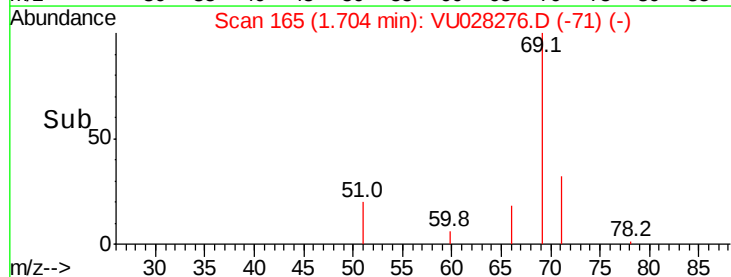
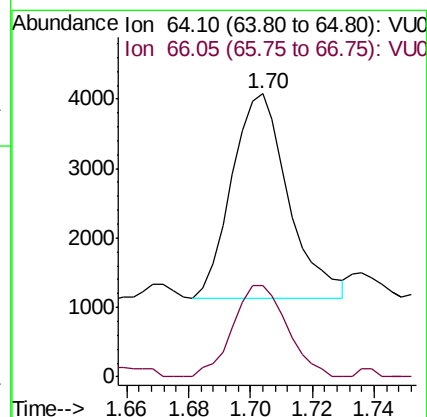
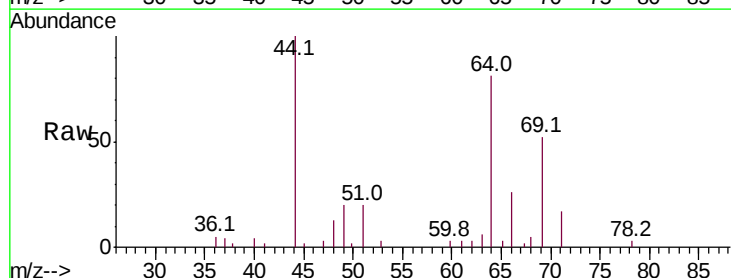
Acq: 20 Nov 2018 14:24

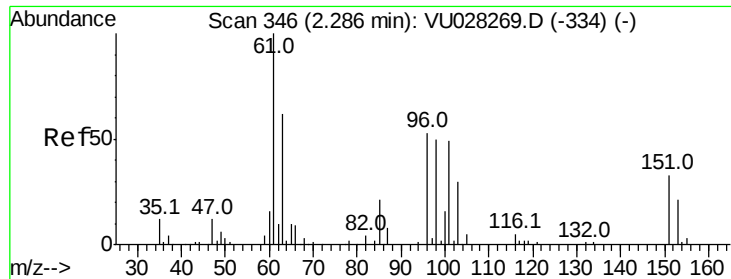
Tgt Ion: 64 Resp: 3732

Ion Ratio Lower Upper

64 100

66 32.5 20.7 38.5





#12

1,1-Dichloroethene

Concen: 0.089 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

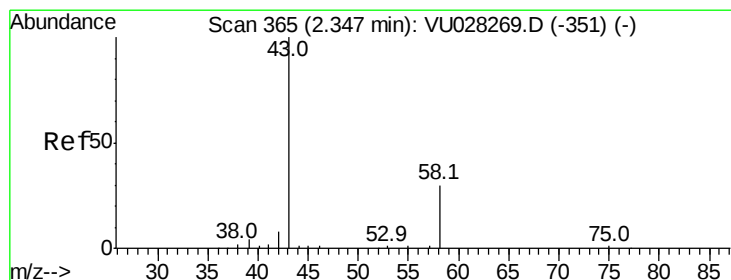
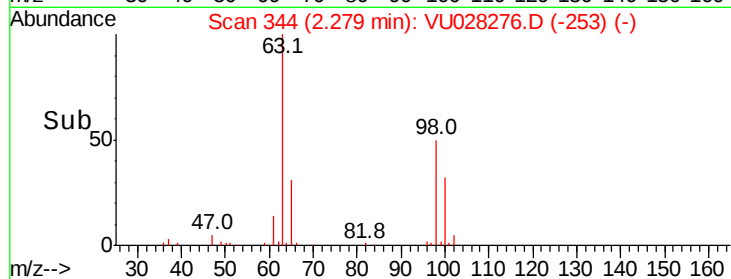
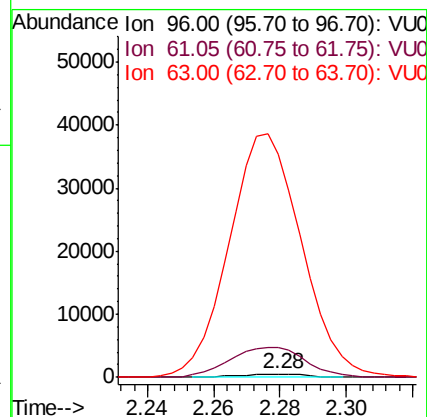
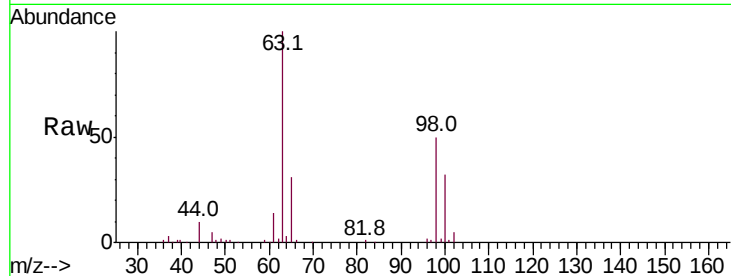
Tot Ion: 96 Resp: 723

Ion Ratio Lower Upper

96 100

61 840.3 145.5 270.1#

63 6212.3 98.6 183.2#



#13

Acetone

Concen: 1.007 ug/L

RT: 2.35 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU028276.D

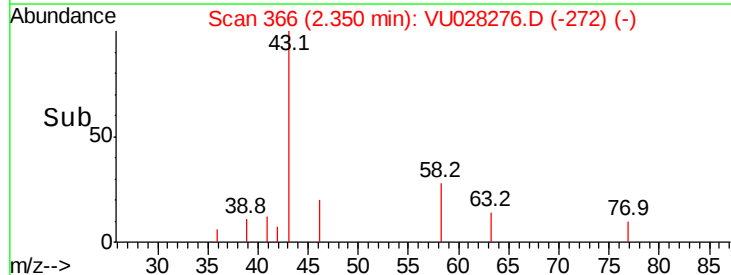
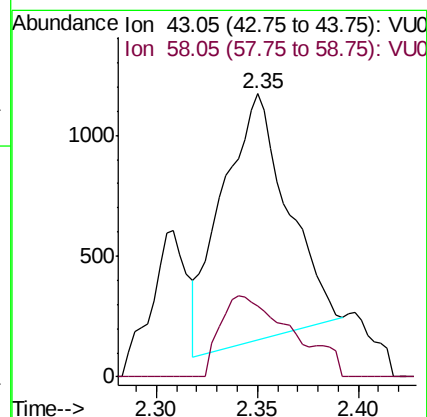
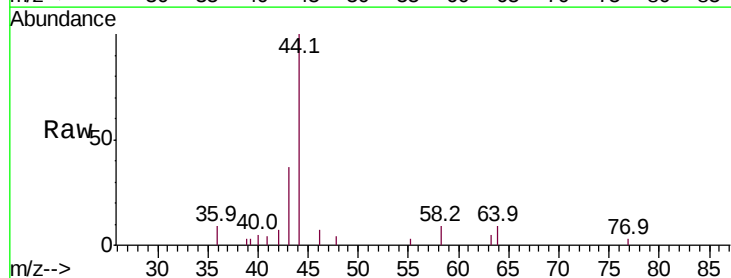
Acq: 20 Nov 2018 14:24

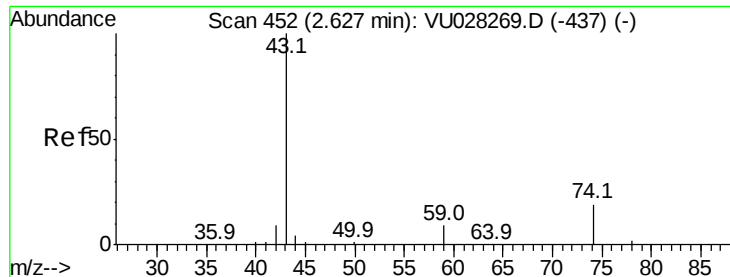
Tgt Ion: 43 Resp: 2306

Ion Ratio Lower Upper

43 100

58 31.9 0.0 58.6





#15

Methyl Acetate

Concen: 0.120 ug/L

RT: 2.63 min Scan# 454

Delta R.T. 0.01 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

Instrument :

MSVOA_U

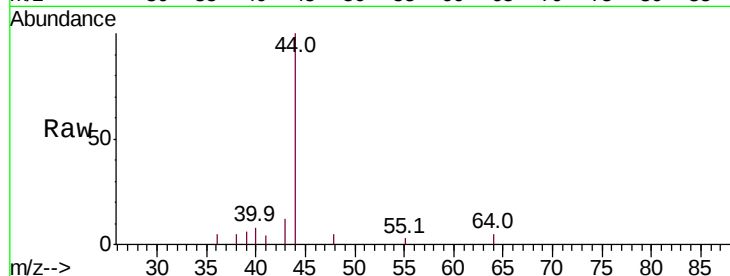
ClientSampleId :

Tot Ion: 43 Resp: 728

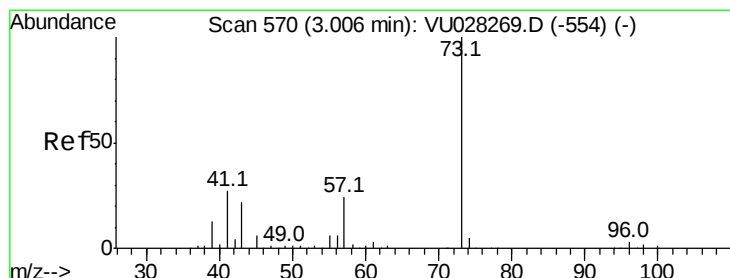
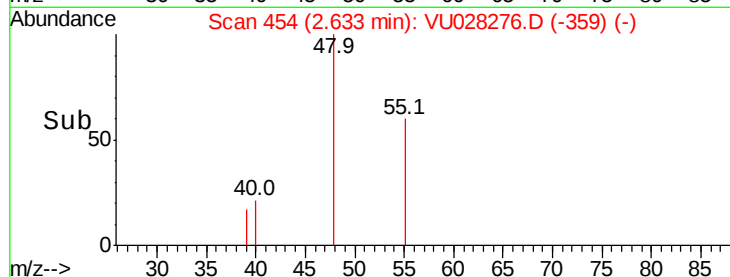
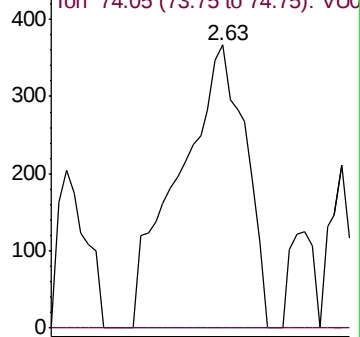
Ion Ratio Lower Upper

43 100

74 0.0 14.7 22.1#



Abundance Ion 43.05 (42.75 to 43.75): VU0



#17

Methyl tert-butyl Ether

Concen: 11.027 ug/L

RT: 3.01 min Scan# 571

Delta R.T. 0.00 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

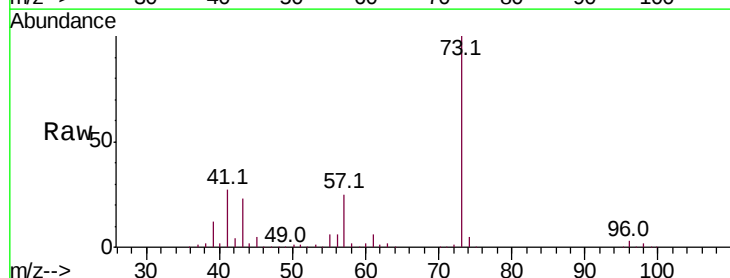
Tgt Ion: 73 Resp: 269703

Ion Ratio Lower Upper

73 100

43 22.2 18.8 28.2

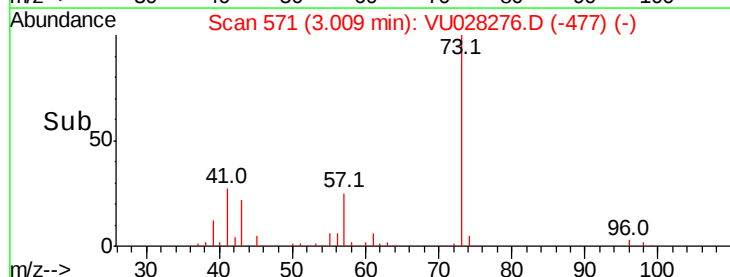
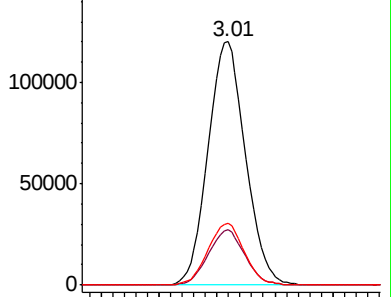
57 24.9 19.2 28.8

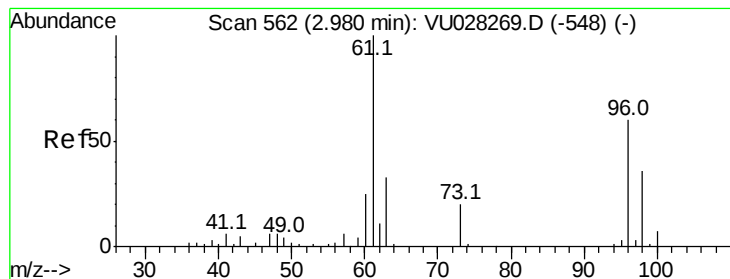


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 6.997 ug/L

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :

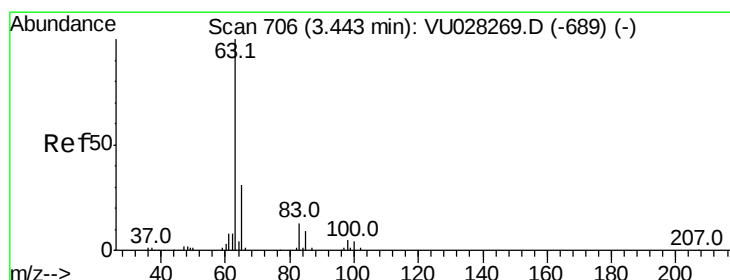
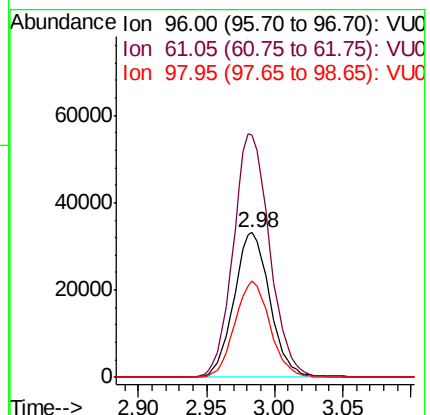
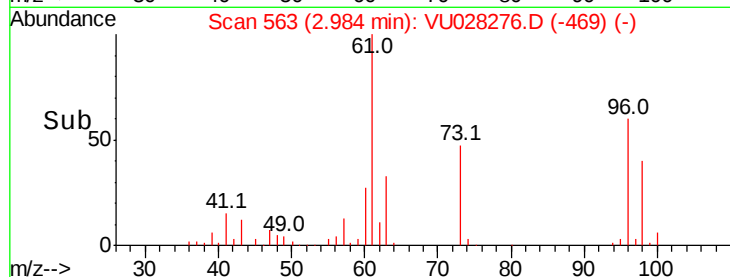
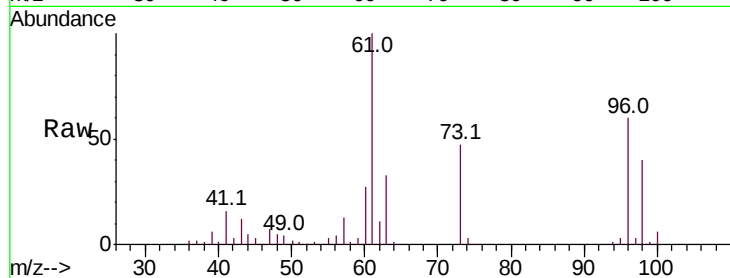
Tot Ion: 96 Resp: 60684

Ion Ratio Lower Upper

96 100

61 167.6 122.2 227.0

98 66.4 44.9 83.5



#19

1,1-Dichloroethane

Concen: 1.122 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

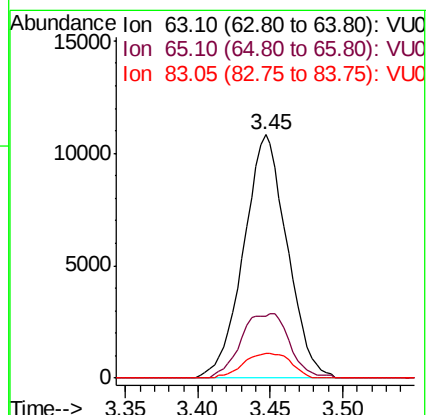
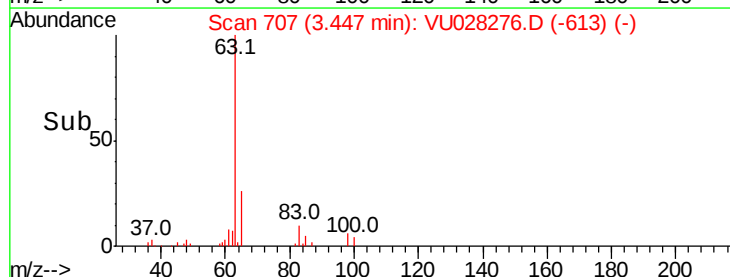
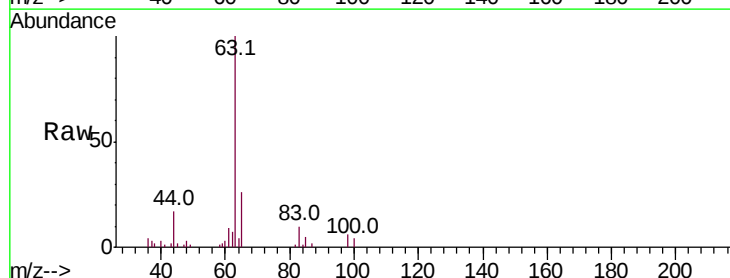
Tgt Ion: 63 Resp: 22556

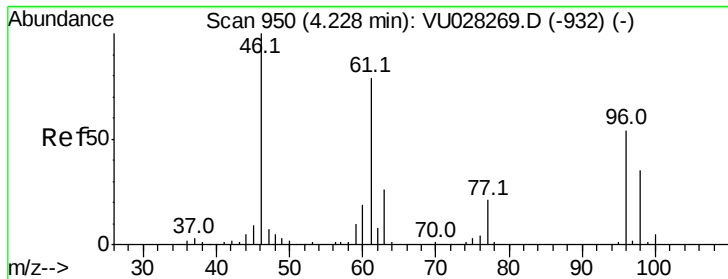
Ion Ratio Lower Upper

63 100

65 25.5 21.2 39.4

83 10.3 8.8 16.4



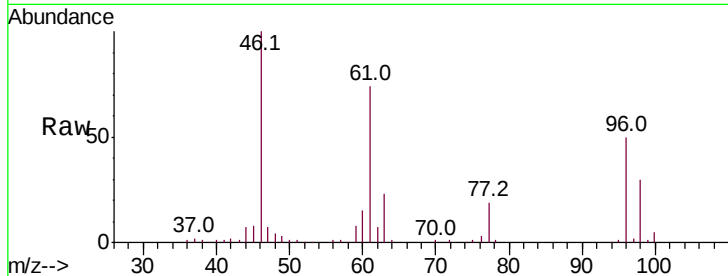


#22

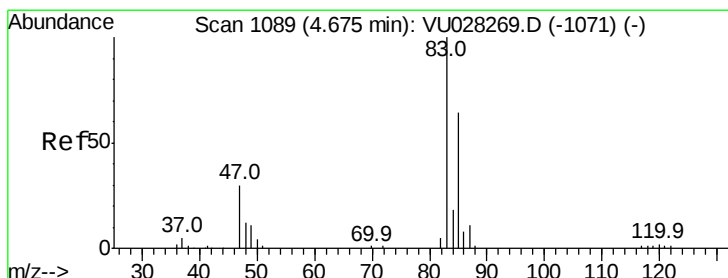
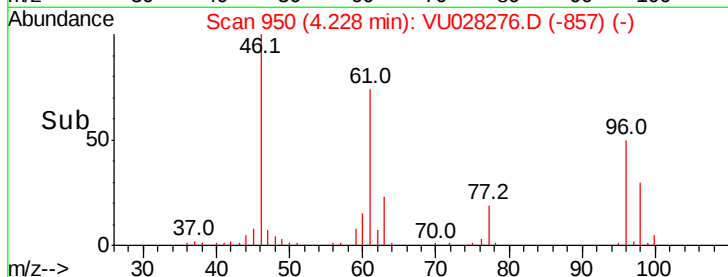
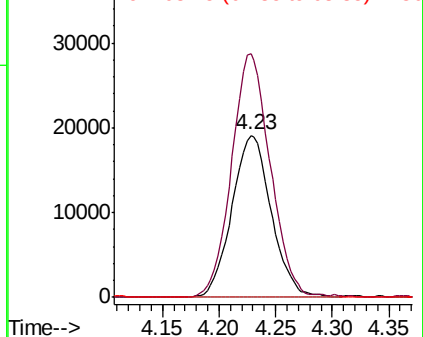
cis-1,2-Dichloroethene
Concen: 4.510 ug/L
RT: 4.23 min Scan# 950
Delta R.T. -0.00 min
Lab File: VU028276.D
Acq: 20 Nov 2018 14:24

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 46235
Ion Ratio Lower Upper
96 100
61 150.5 108.0 200.6
68 0.0 0.0 0.0



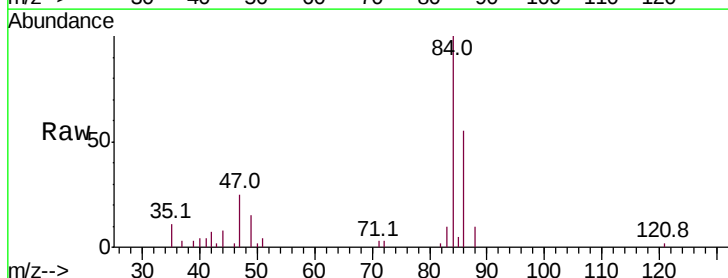
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



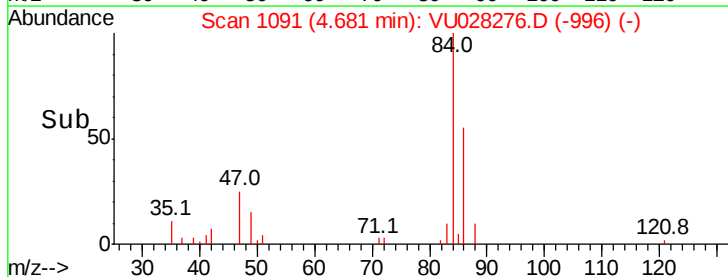
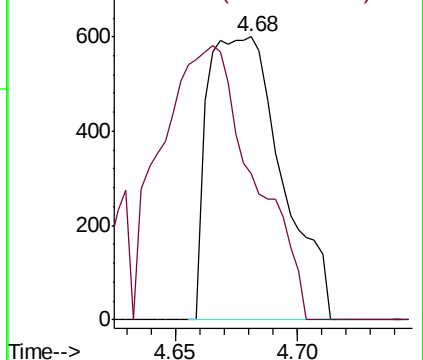
#25

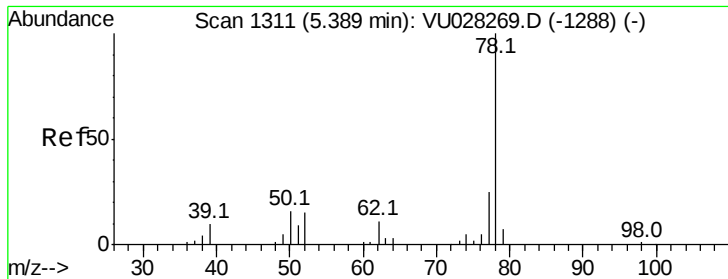
Chloroform
Concen: 0.058 ug/L
RT: 4.68 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VU028276.D
Acq: 20 Nov 2018 14:24

Tgt Ion: 83 Resp: 1266
Ion Ratio Lower Upper
83 100
85 51.8 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0





#33

Benzene

Concen: 0.357 ug/L

RT: 5.39 min Scan# 1312

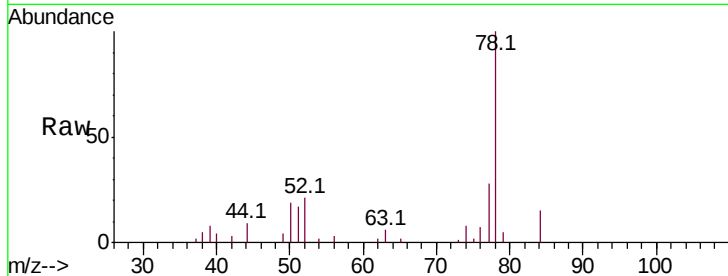
Delta R.T. 0.00 min

Lab File: VU028276.D

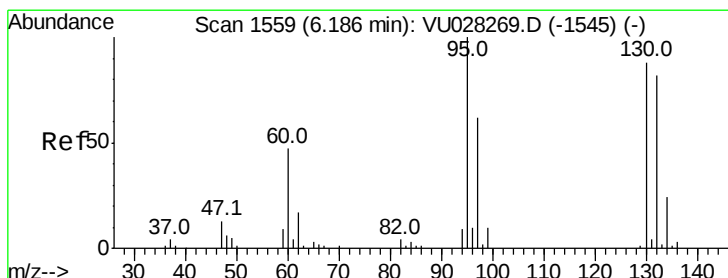
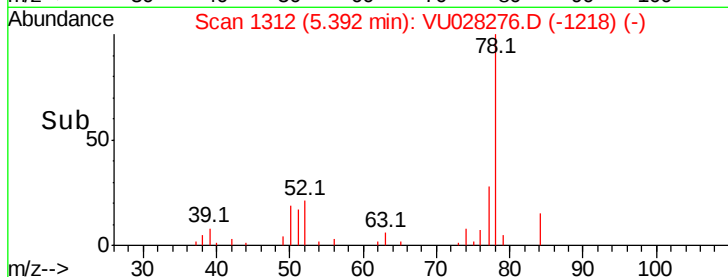
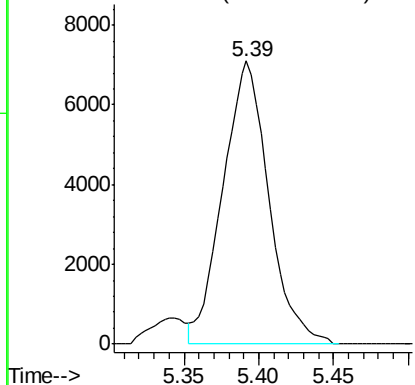
Acq: 20 Nov 2018 14:24

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 15163



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.368 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

Tgt Ion: 95 Resp: 3830

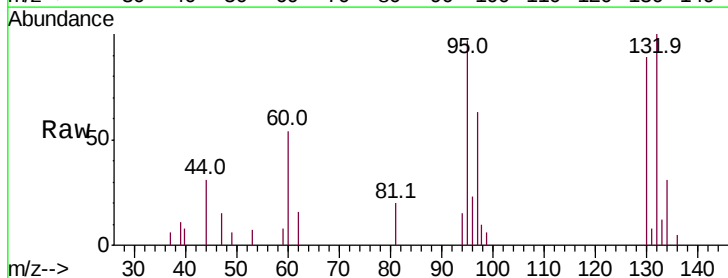
Ion Ratio Lower Upper

95 100

97 65.0 46.5 86.3

132 102.6 58.9 109.3

130 91.4 61.3 113.9

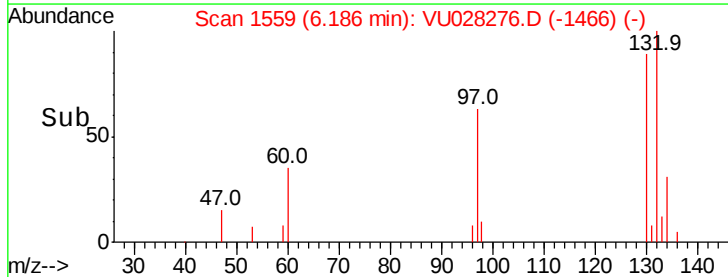
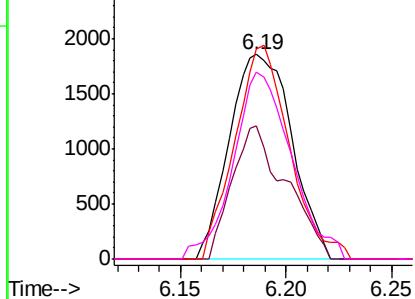


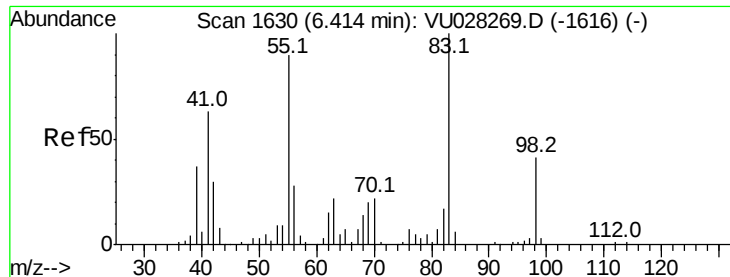
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

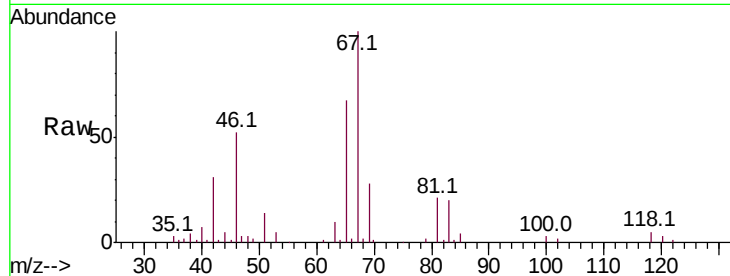




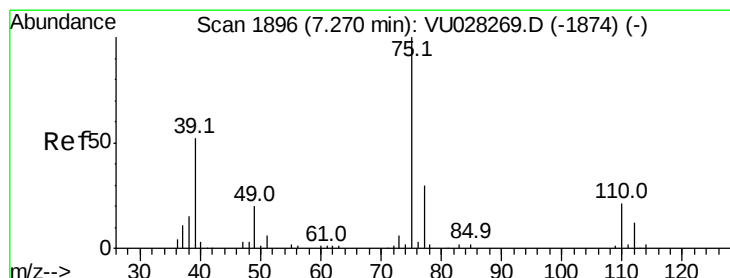
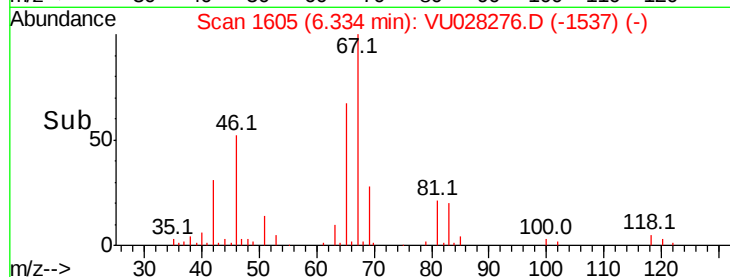
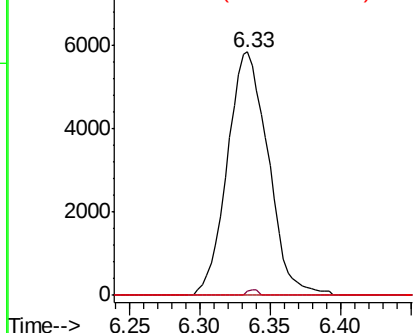
#35
Methylcyclohexane
Concen: 0.725 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU028276.D
Acq: 20 Nov 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 11875
Ion Ratio Lower Upper
83 100
55 0.6 73.2 109.8#
98 0.8 33.4 50.2#

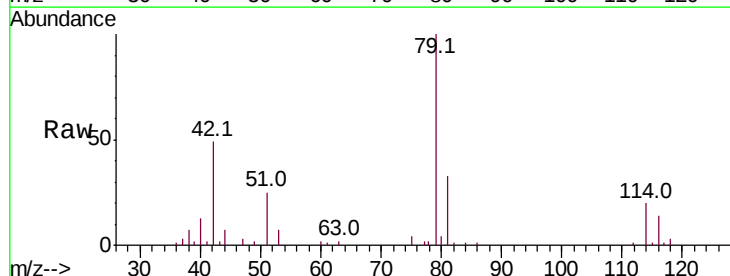


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

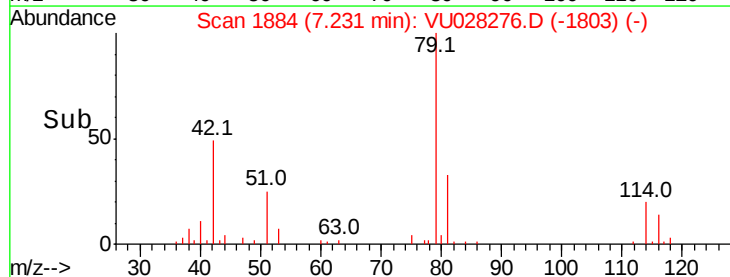
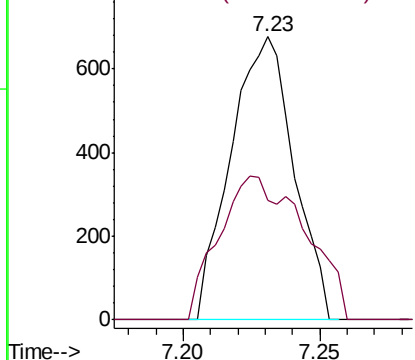


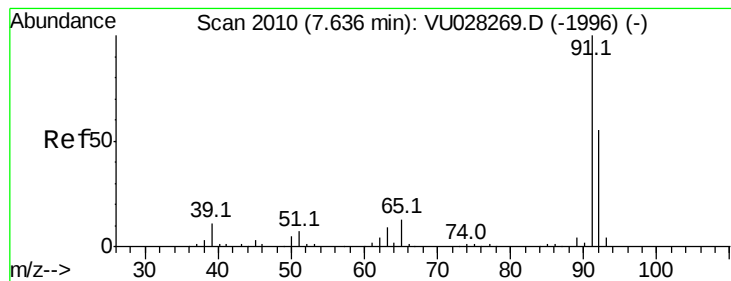
#39
cis-1,3-Dichloropropene
Concen: 0.071 ug/L
RT: 7.23 min Scan# 1884
Delta R.T. -0.04 min
Lab File: VU028276.D
Acq: 20 Nov 2018 14:24

Tgt Ion: 75 Resp: 1086
Ion Ratio Lower Upper
75 100
77 42.2 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0





#42

Toluene

Concen: 0.117 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.01 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

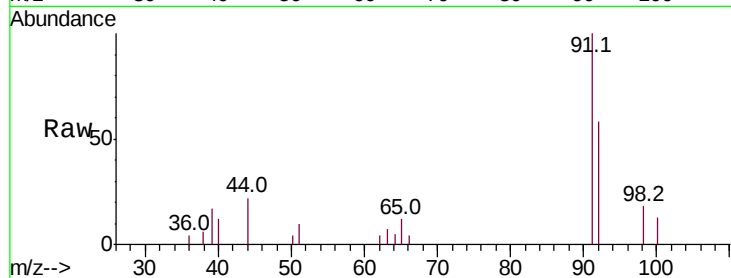
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 5036

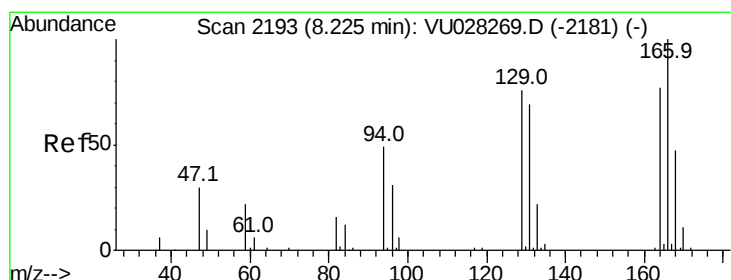
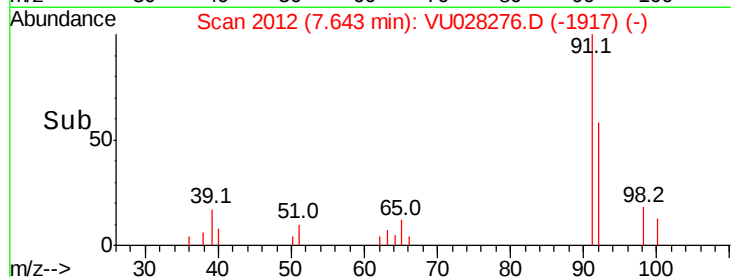
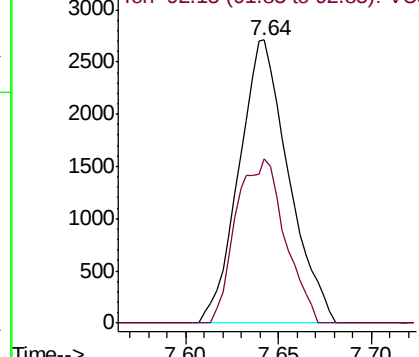
Ion Ratio Lower Upper

91 100

92 57.9 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: 0.094 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

Tgt Ion: 164 Resp: 681

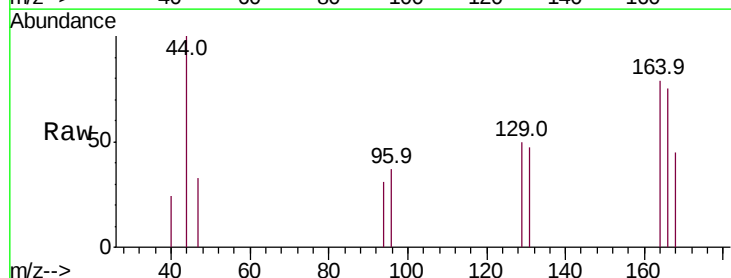
Ion Ratio Lower Upper

164 100

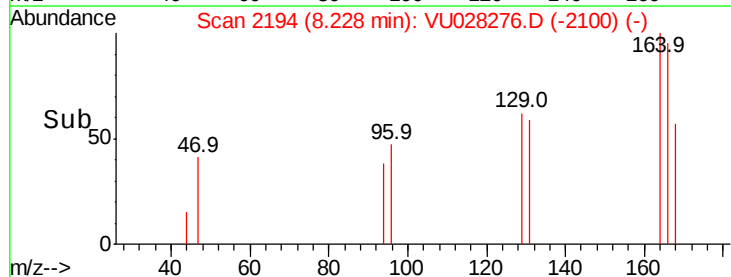
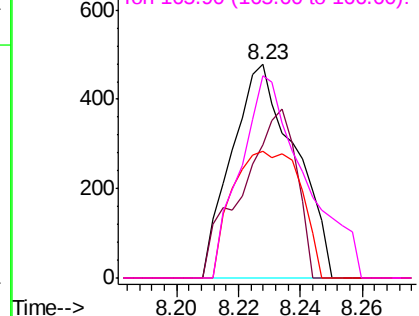
129 62.3 67.6 125.6#

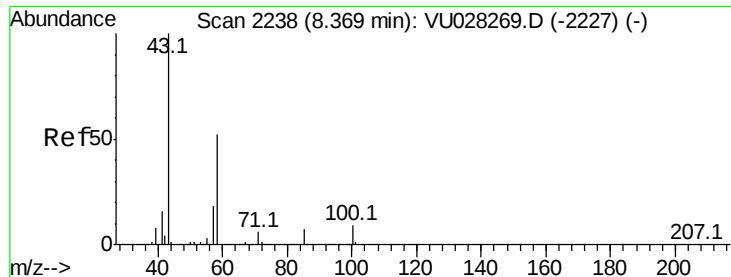
131 59.4 66.3 123.1#

166 94.8 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

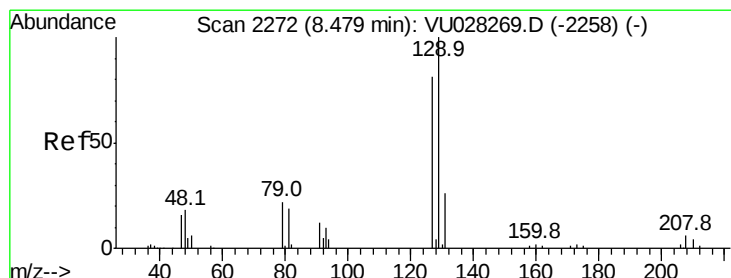
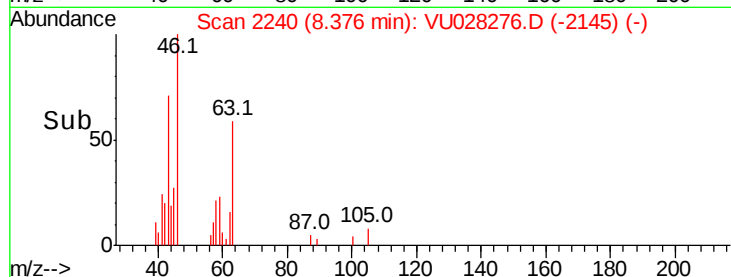
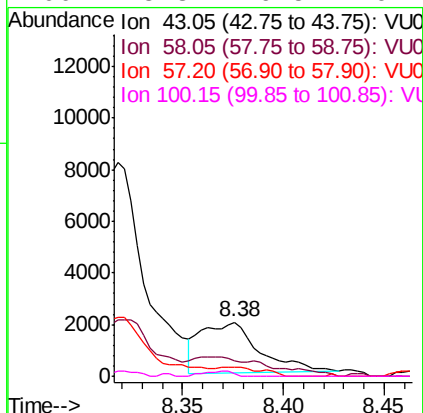
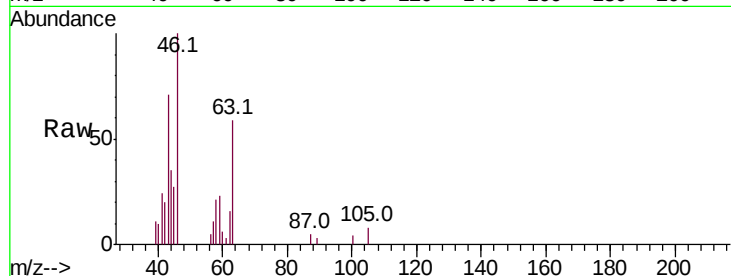




#48
2-Hexanone
Concen: 0.632 ug/L
RT: 8.38 min Scan# 2240
Delta R.T. 0.01 min
Lab File: VU028276.D
Acq: 20 Nov 2018 14:24

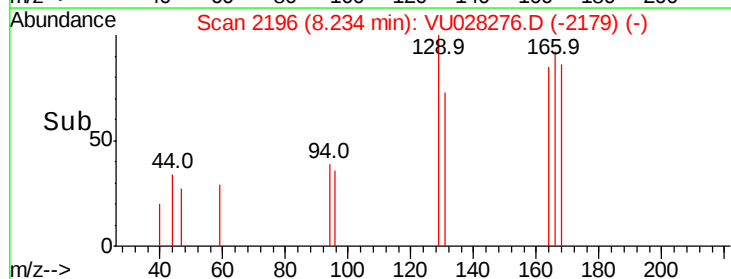
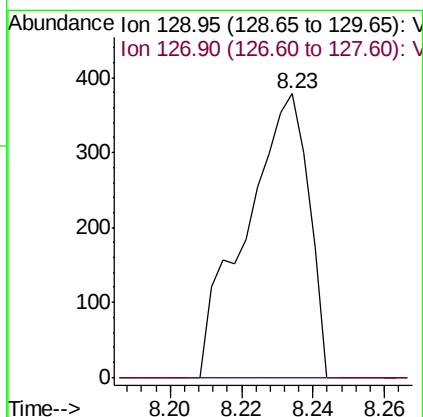
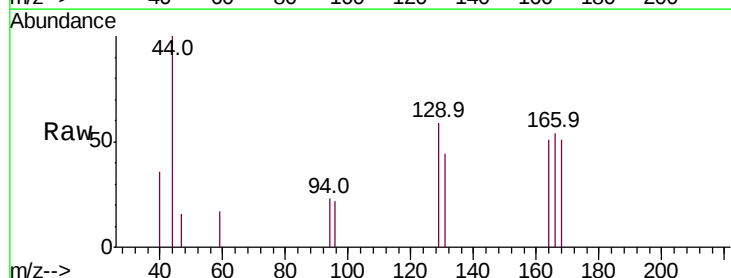
Instrument :
MSVOA_U
ClientSampleId :

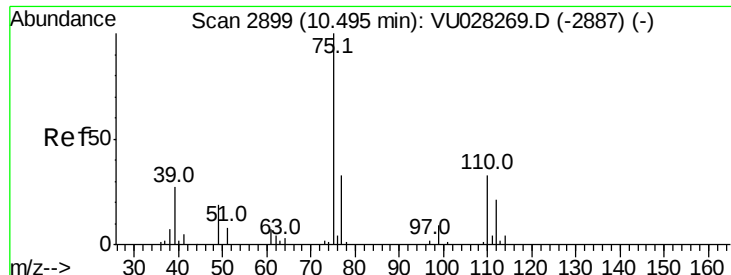
Tot Ion: 43 Resp: 3904
Ion Ratio Lower Upper
43 100
58 52.1 41.1 61.7
57 12.9 13.8 20.8#
100 5.3 6.5 9.7#



#49
Dibromochloromethane
Concen: 0.062 ug/L
RT: 8.23 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VU028276.D
Acq: 20 Nov 2018 14:24

Tgt Ion: 129 Resp: 457
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.5#





#59

1,2,3-Trichloropropane

Concen: 1.181 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028276.D

Acq: 20 Nov 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 8267

Ion Ratio Lower Upper

75 100

77 36.9 25.7 38.5

