

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028278.D
 Acq On : 20 Nov 2018 15:11
 Operator : MD/SY
 Sample : J5995-20
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 06:37:25 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	130224	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	120219	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	54899	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	39524	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.68	69	37007	4.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.40%
11) 1,1-Dichloroethene-d2	2.28	63	59284	3.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.80%
20) 2-Butanone-d5	4.20	46	175792	53.61	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.22%
24) Chloroform-d	4.65	84	80891	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
26) 1,2-Dichloroethane-d4	5.31	65	46227	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.40%
32) Benzene-d6	5.34	84	155322	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.80%
36) 1,2-Dichloropropane-d6	6.33	67	61674	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	7.57	98	127843	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.60%
43) trans-1,3-Dichloropropene-	7.85	79	17735	4.42	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.40%
46) 2-Hexanone-d5	8.31	63	119698	49.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.44%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	46218	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	47565	4.66	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.41	62	75466	5.710	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	446	0.053	ug/L #	34
12) 1,1-Dichloroethene	2.29	96	1594	0.199	ug/L #	1
13) Acetone	2.32	43	2991	1.326	ug/L	70
15) Methyl Acetate	2.63	43	657	0.110	ug/L #	66
17) Methyl tert-butyl Ether	3.01	73	2520189	104.646	ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	67052	7.852	ug/L	97
19) 1,1-Dichloroethane	3.45	63	20886	1.055	ug/L	93
22) cis-1,2-Dichloroethene	4.23	96	657268	65.113	ug/L	93
25) Chloroform	4.67	83	1071	0.050	ug/L	82
33) Benzene	5.39	78	9283	0.234	ug/L	100
34) Trichloroethene	6.19	95	234498	24.148	ug/L	96
35) Methylcyclohexane	6.33	83	12133	0.793	ug/L #	13
37) 1,2-Dichloropropane	6.33	63	6319	0.558	ug/L #	92
39) cis-1,3-Dichloropropene	7.22	75	1088	0.076	ug/L #	41
47) Tetrachloroethene	8.23	164	539	0.080	ug/L #	67
48) 2-Hexanone	8.37	43	3576	0.620	ug/L #	80

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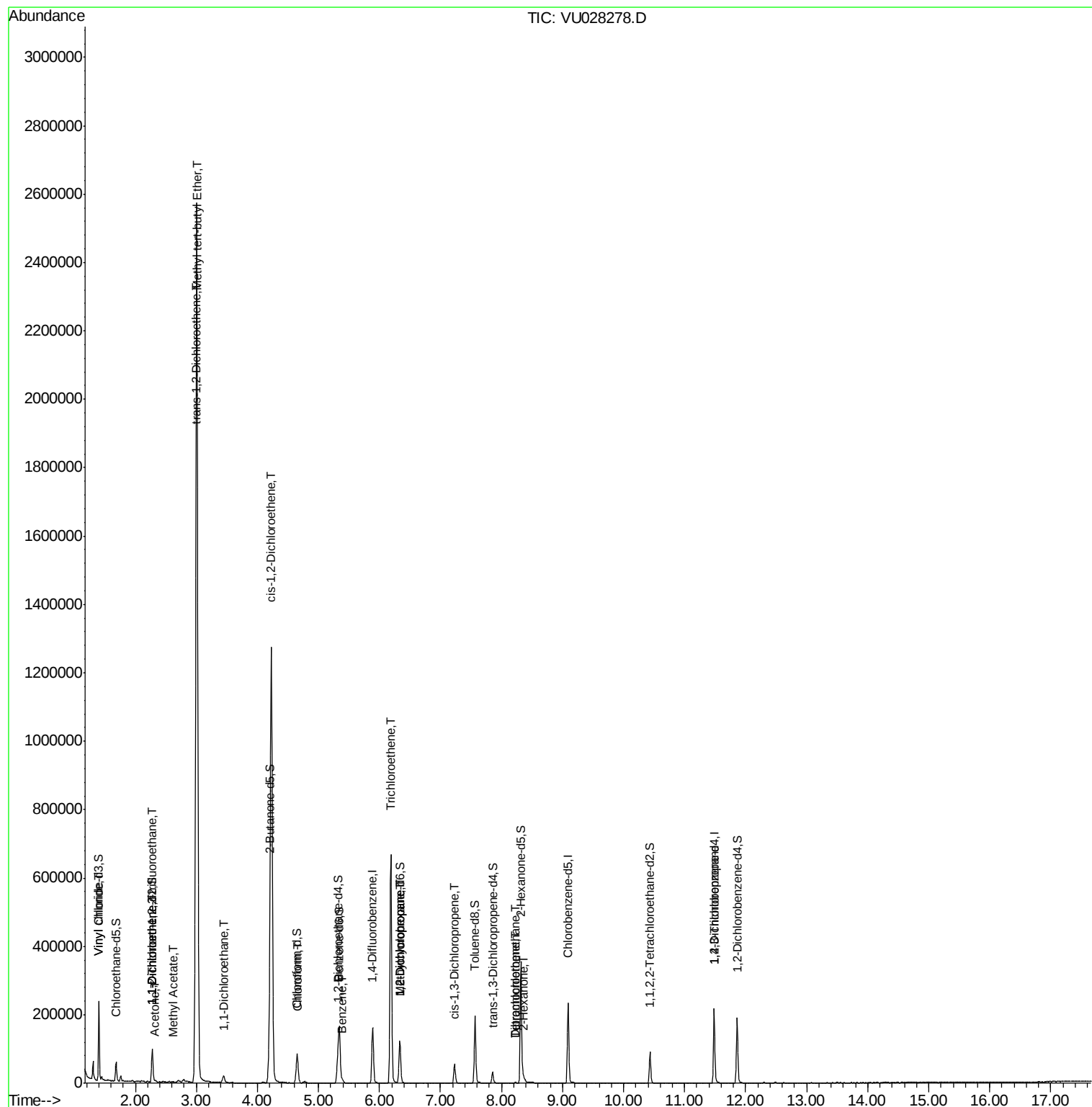
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.23	129	491	0.071	ug/L #	10
59) 1,2,3-Trichloropropane	11.48	75	7861	1.202	ug/L	90

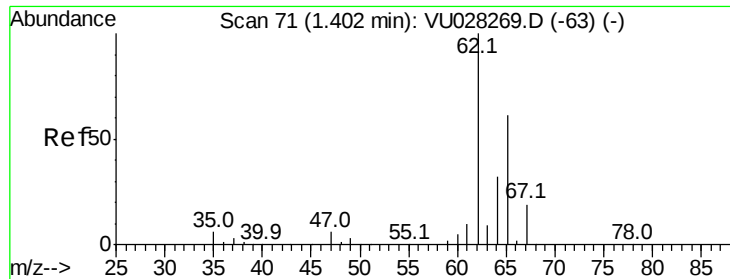
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 5.710 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028278.D

Acq: 20 Nov 2018 15:11

Instrument :

MSVOA_U

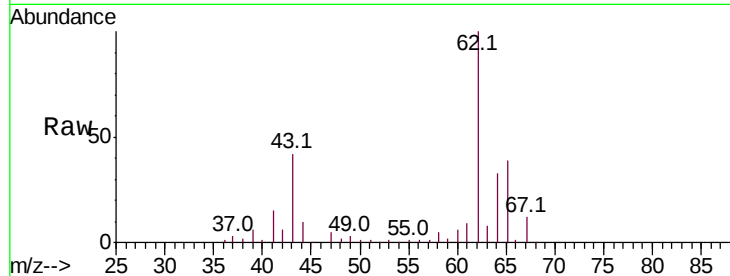
ClientSampleId :

Tot Ion: 62 Resp: 75466

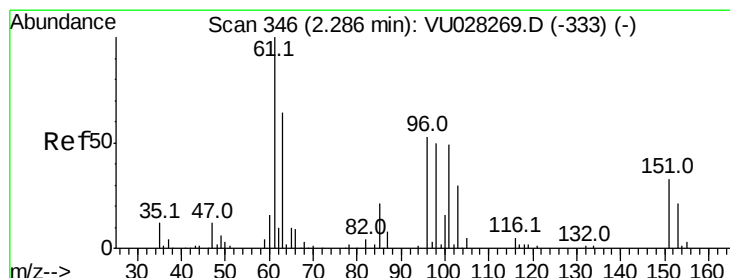
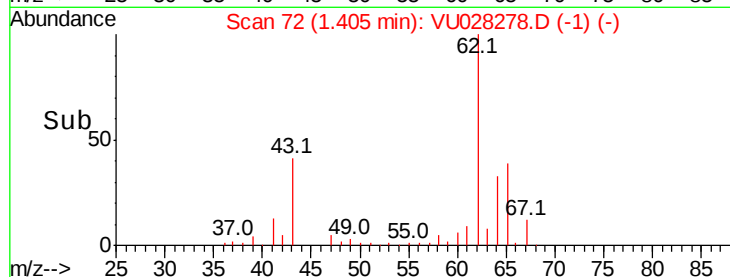
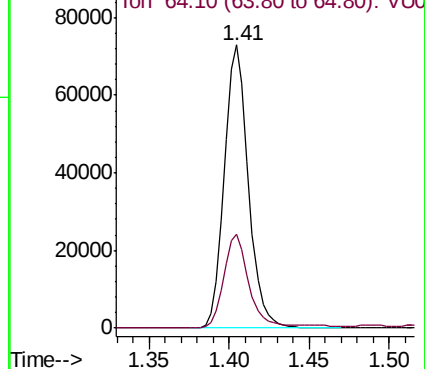
Ion Ratio Lower Upper

62 100

64 33.1 21.7 40.3



Abundance Ion 62.00 (61.70 to 62.70): VU028278.D (-63) (-)



#10

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

Concen: 0.053 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU028278.D

Acq: 20 Nov 2018 15:11

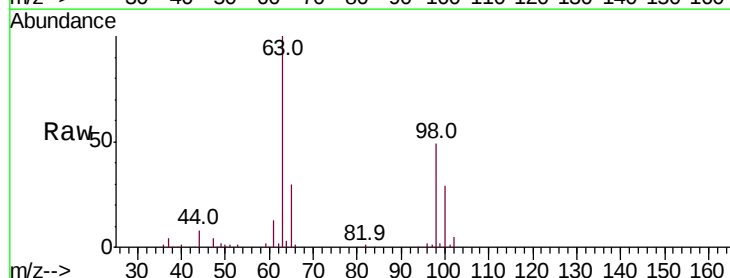
Tgt Ion: 101 Resp: 446

Ion Ratio Lower Upper

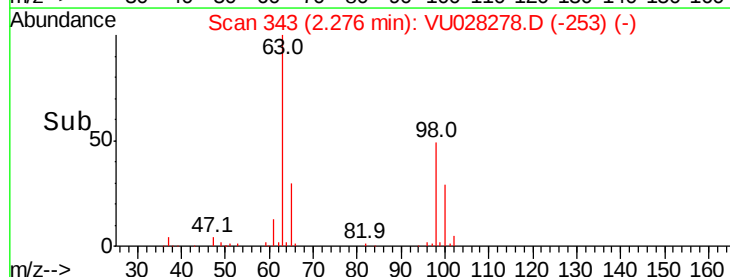
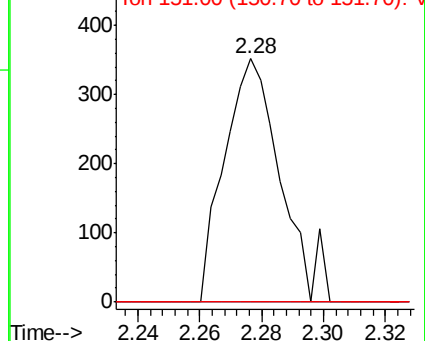
101 100

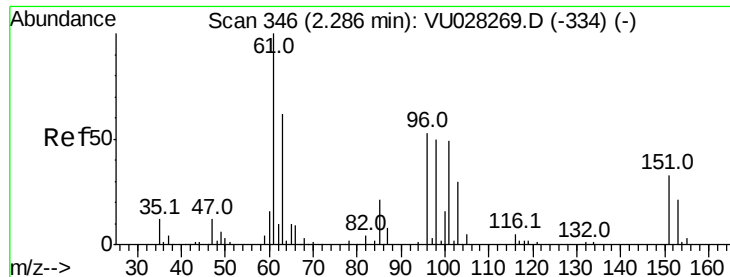
85 20.2 37.4 56.2#

151 0.0 55.0 82.4#



Abundance Ion 101.00 (100.70 to 101.70): VU028278.D (-333) (-)





#12

1,1-Dichloroethene

Concen: 0.199 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU028278.D

Acq: 20 Nov 2018 15:11

Instrument :
MSVOA_U
ClientSampled :

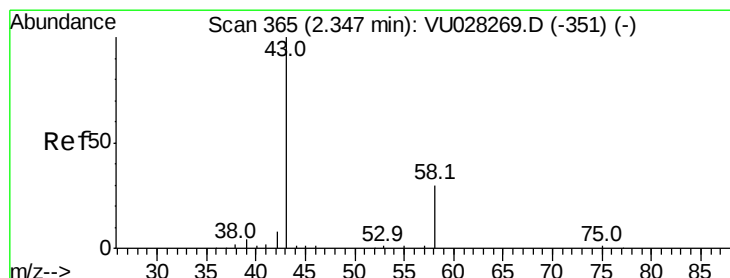
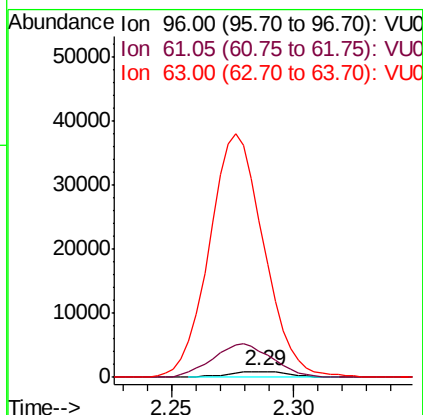
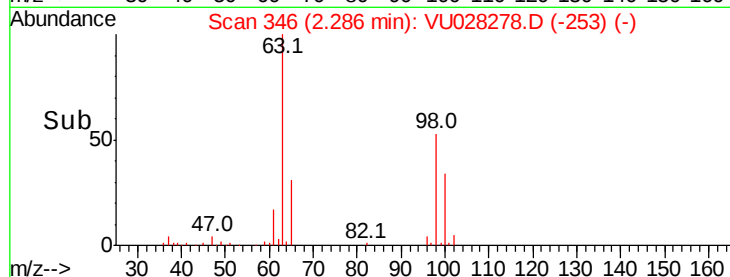
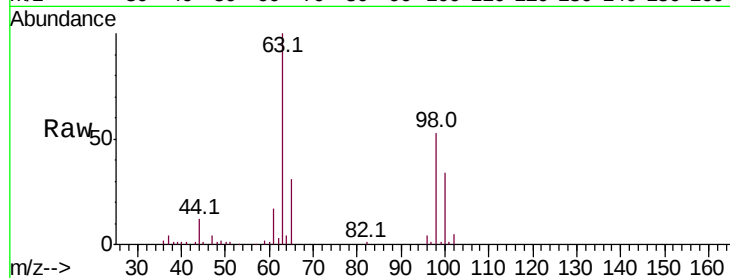
Tot Ion: 96 Resp: 1594

Ion Ratio Lower Upper

96 100

61 443.4 145.5 270.1#

63 2679.6 98.6 183.2#



#13

Acetone

Concen: 1.326 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.02 min

Lab File: VU028278.D

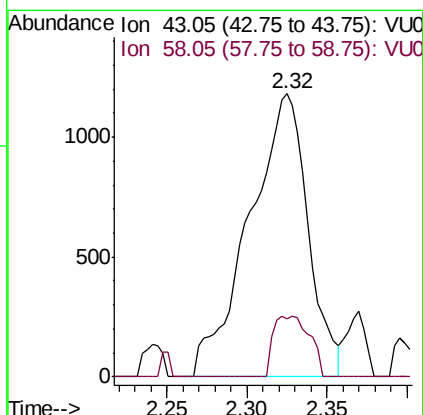
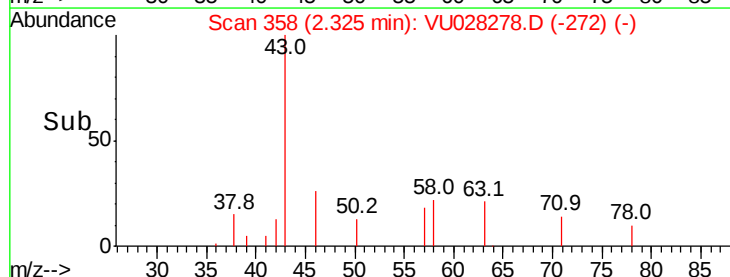
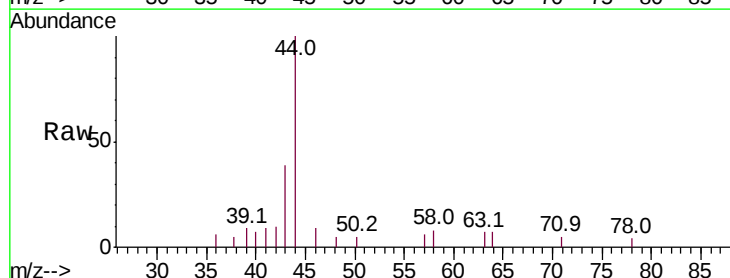
Acq: 20 Nov 2018 15:11

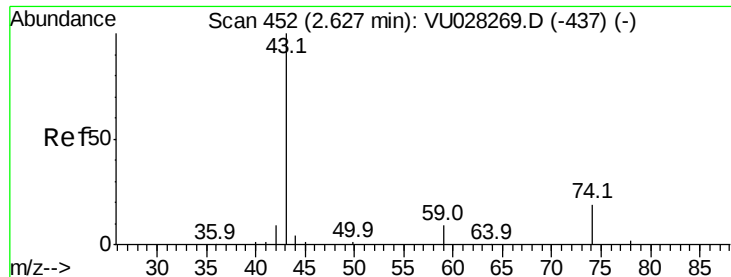
Tgt Ion: 43 Resp: 2991

Ion Ratio Lower Upper

43 100

58 13.3 0.0 58.6





#15

Methyl Acetate

Concen: 0.110 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.00 min

Lab File: VU028278.D

Acq: 20 Nov 2018 15:11

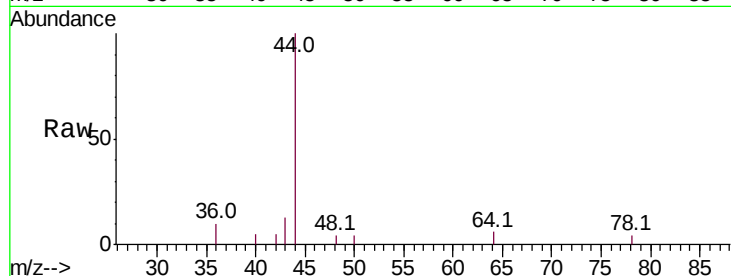
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 657

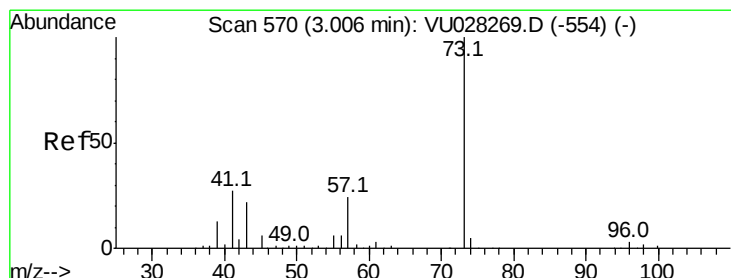
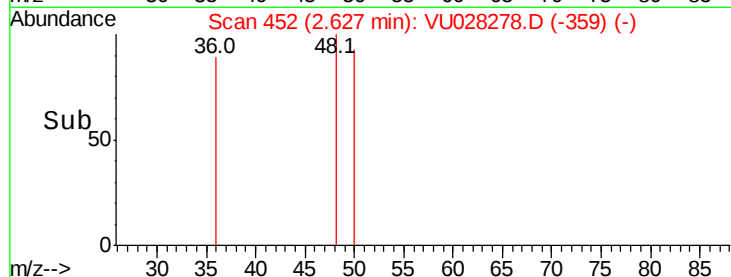
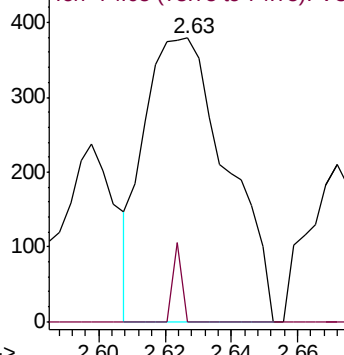
Ion Ratio Lower Upper

43 100

74 3.0 14.7 22.1#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 74.05 (73.75 to 74.75): VU0



#17

Methyl tert-butyl Ether

Concen: 104.646 ug/L

RT: 3.01 min Scan# 570

Delta R.T. 0.00 min

Lab File: VU028278.D

Acq: 20 Nov 2018 15:11

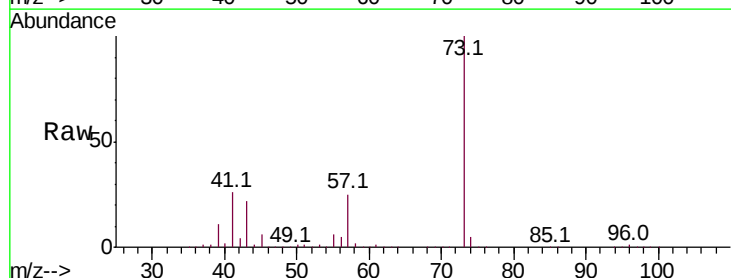
Tgt Ion: 73 Resp: 2520189

Ion Ratio Lower Upper

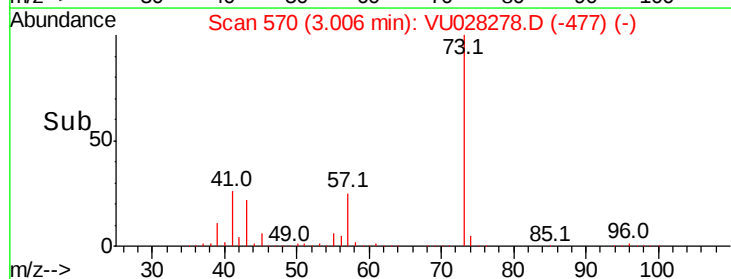
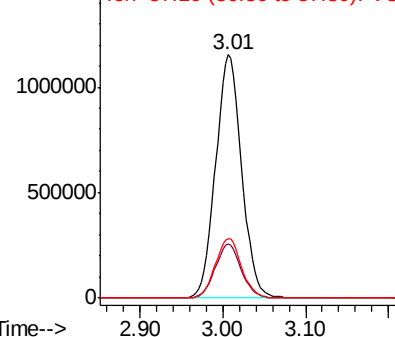
73 100

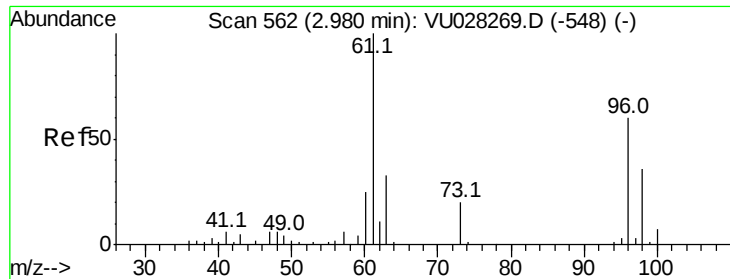
43 22.3 18.8 28.2

57 24.6 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

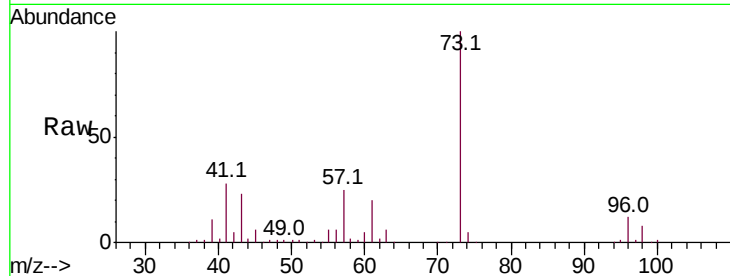




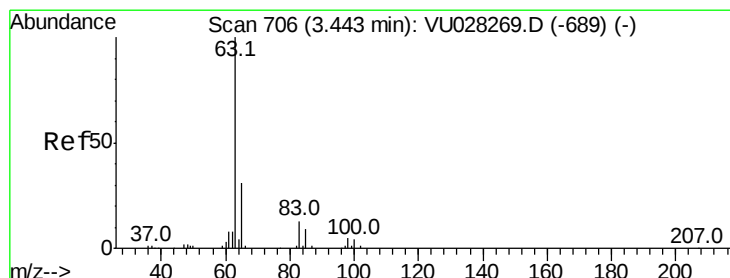
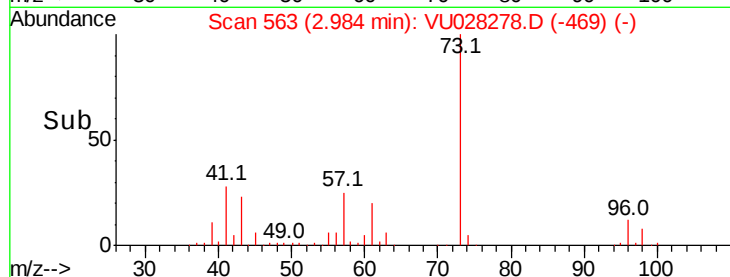
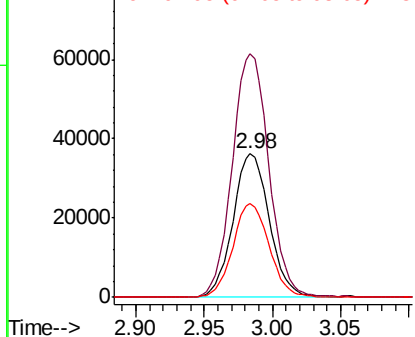
#18
trans-1,2-Dichloroethene
Concen: 7.852 ug/L
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU028278.D
Acq: 20 Nov 2018 15:11

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 67052
Ion Ratio Lower Upper
96 100
61 169.5 122.2 227.0
98 65.2 44.9 83.5

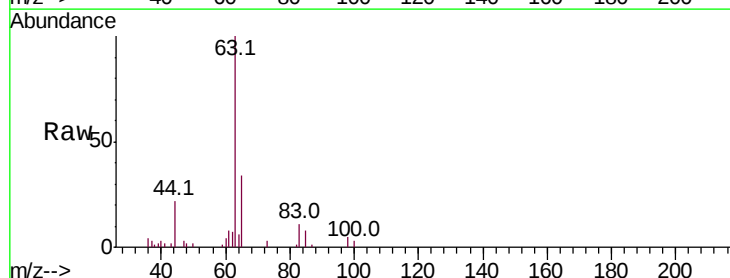


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

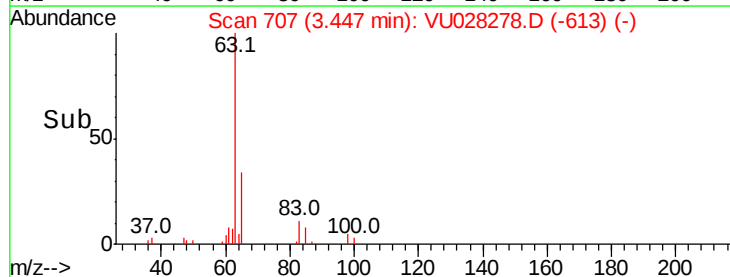
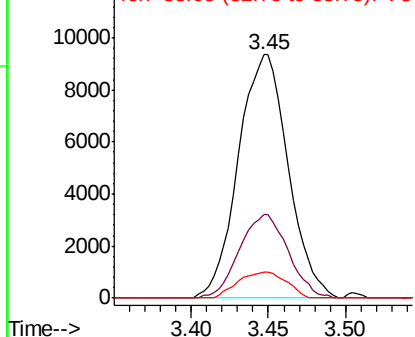


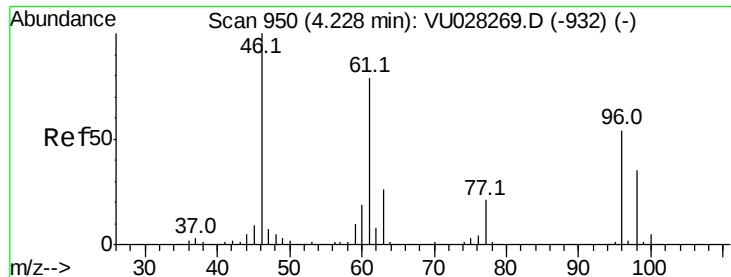
#19
1,1-Dichloroethane
Concen: 1.055 ug/L
RT: 3.45 min Scan# 707
Delta R.T. 0.00 min
Lab File: VU028278.D
Acq: 20 Nov 2018 15:11

Tgt Ion: 63 Resp: 20886
Ion Ratio Lower Upper
63 100
65 34.4 21.2 39.4
83 10.8 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



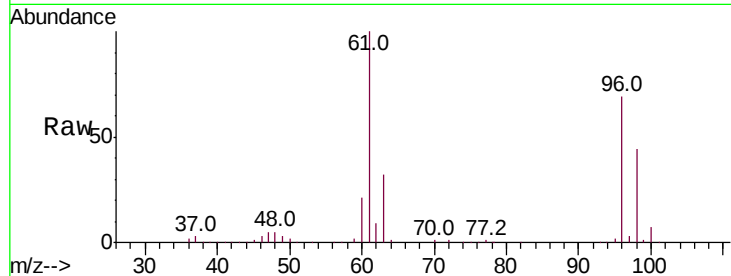


#22

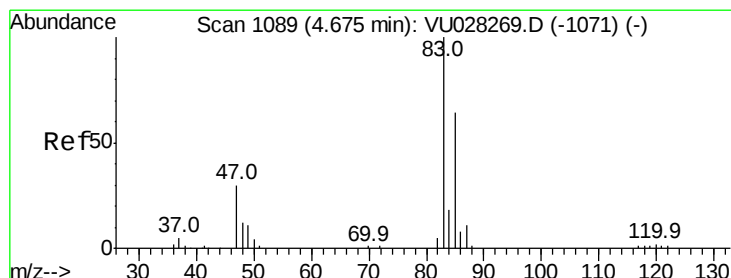
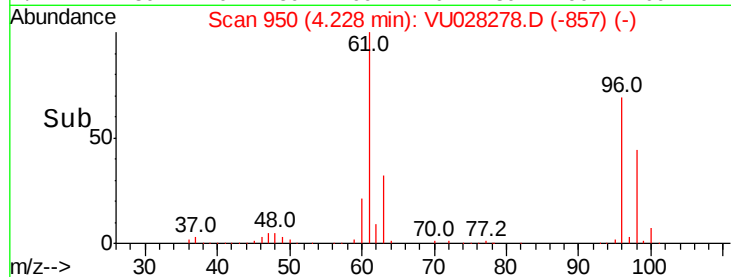
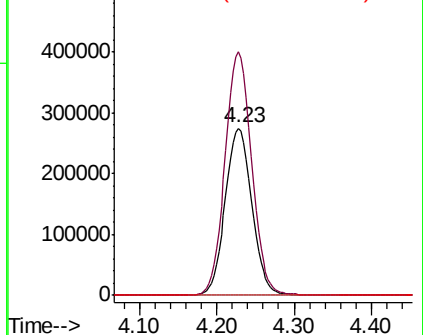
cis-1,2-Dichloroethene
 Concen: 65.113 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU028278.D
 Acq: 20 Nov 2018 15:11

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 657268
 Ion Ratio Lower Upper
 96 100
 61 145.4 108.0 200.6
 68 0.0 0.0 0.0



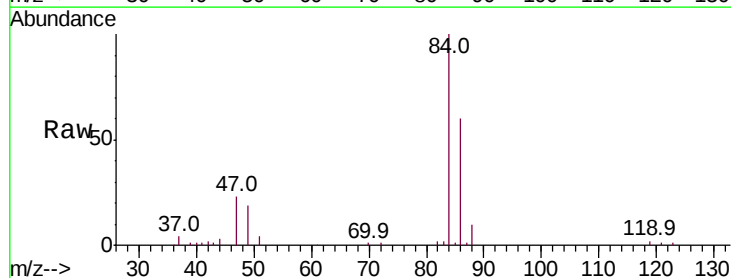
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



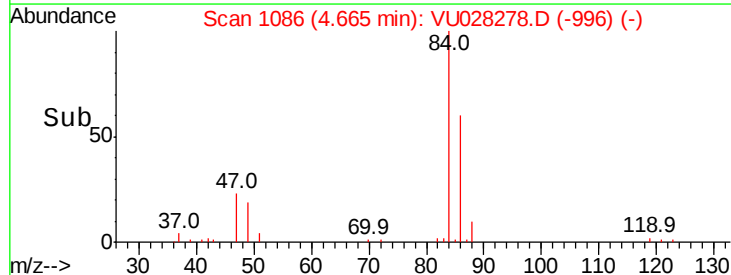
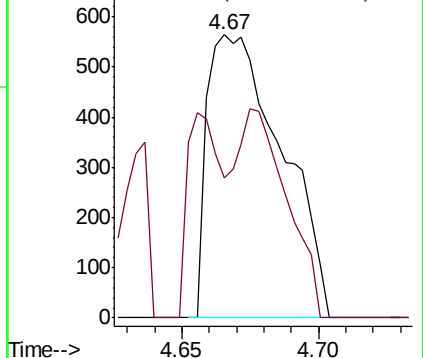
#25

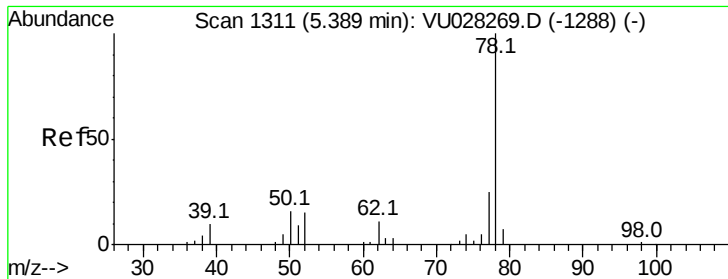
Chloroform
 Concen: 0.050 ug/L
 RT: 4.67 min Scan# 1086
 Delta R.T. -0.01 min
 Lab File: VU028278.D
 Acq: 20 Nov 2018 15:11

Tgt Ion: 83 Resp: 1071
 Ion Ratio Lower Upper
 83 100
 85 49.3 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: 0.234 ug/L

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU028278.D

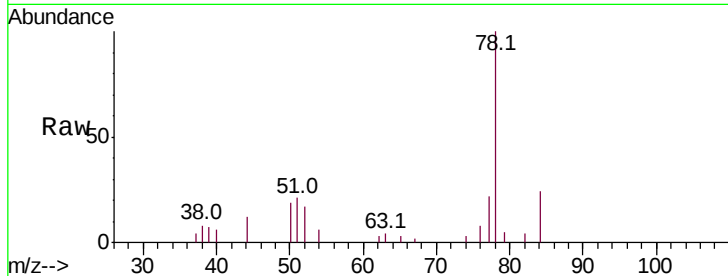
Acq: 20 Nov 2018 15:11

Instrument :

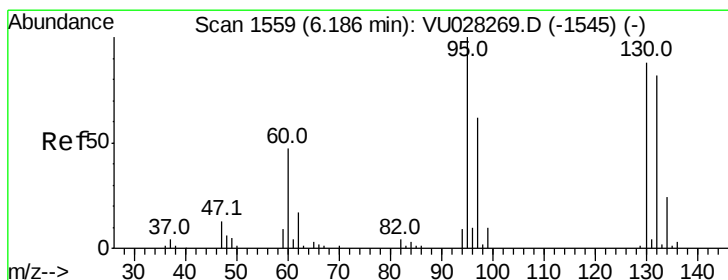
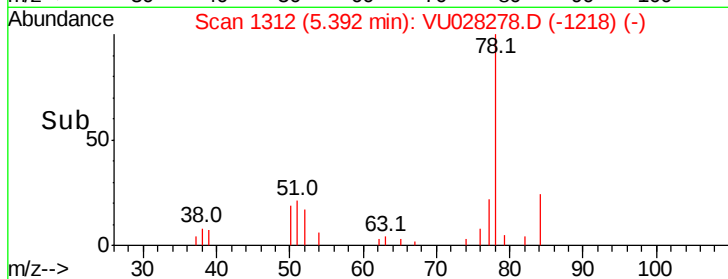
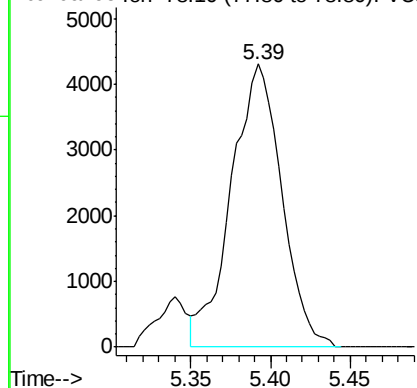
MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 9283



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 24.148 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028278.D

Acq: 20 Nov 2018 15:11

Tgt Ion: 95 Resp: 234498

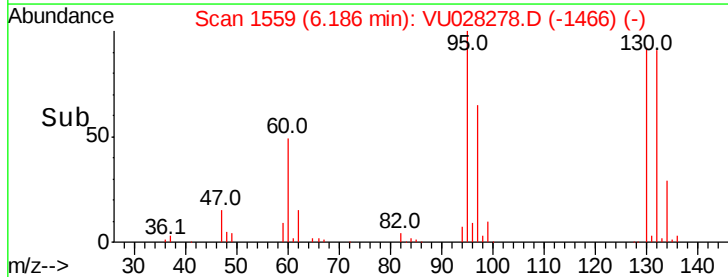
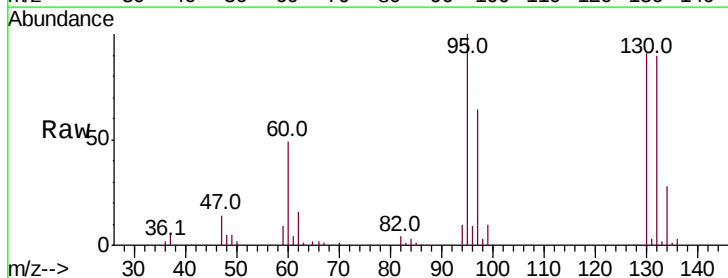
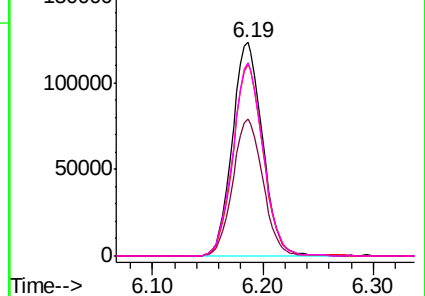
Ion	Ratio	Lower	Upper
95	100		
97	64.1	46.5	86.3
132	90.1	58.9	109.3
130	90.6	61.3	113.9

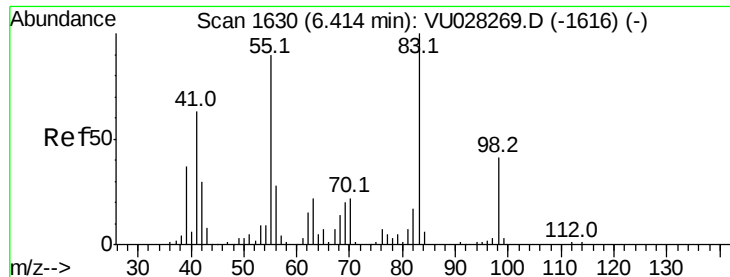
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

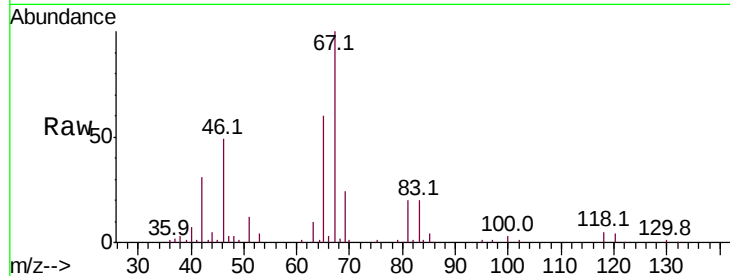




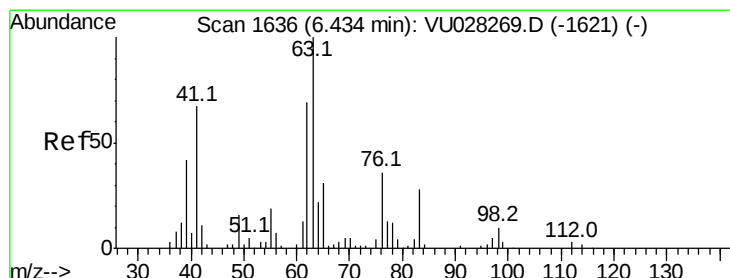
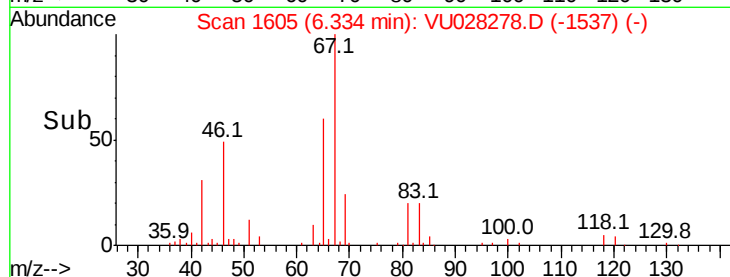
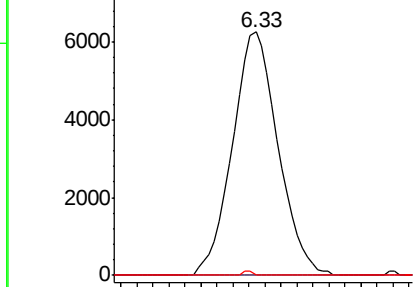
#35
Methylcyclohexane
Concen: 0.793 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU028278.D
Acq: 20 Nov 2018 15:11

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 12133
Ion Ratio Lower Upper
83 100
55 0.0 73.2 109.8#
98 0.0 33.4 50.2#

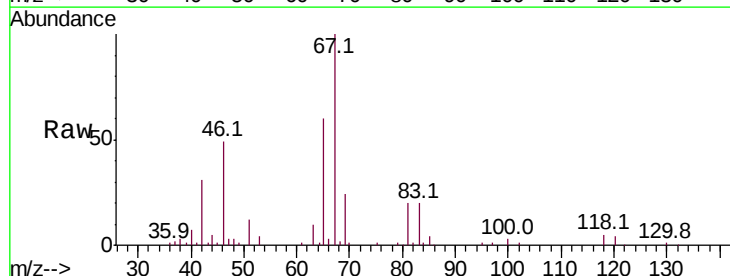


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

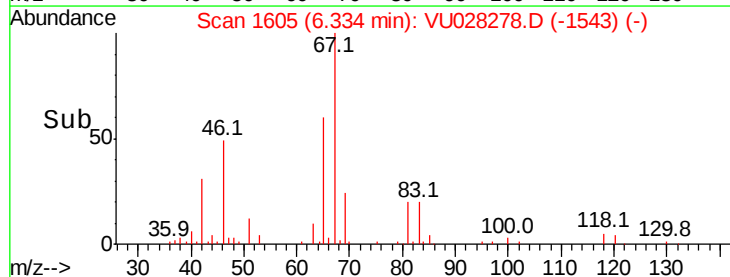
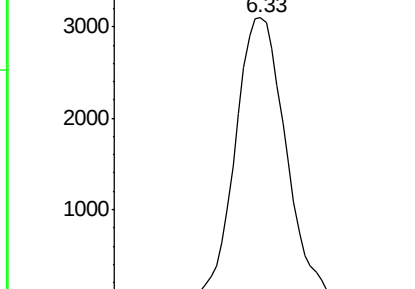


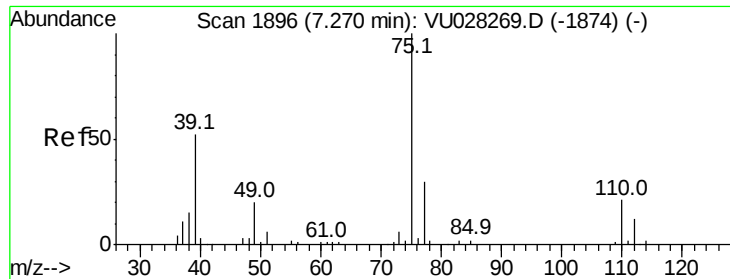
#37
1,2-Dichloropropane
Concen: 0.558 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.10 min
Lab File: VU028278.D
Acq: 20 Nov 2018 15:11

Tgt Ion: 63 Resp: 6319
Ion Ratio Lower Upper
63 100
112 0.0 2.2 3.2#



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

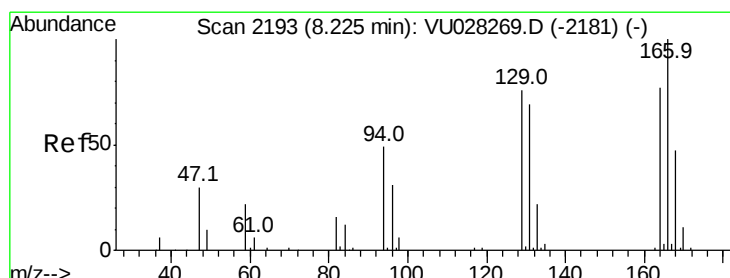
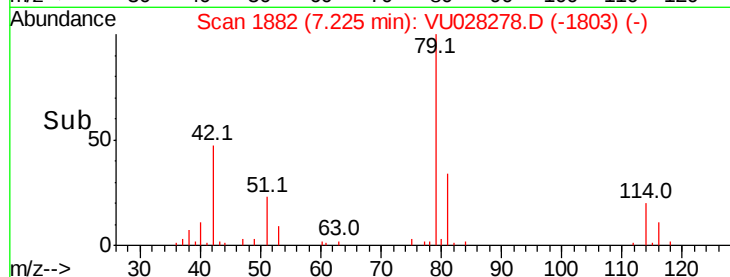
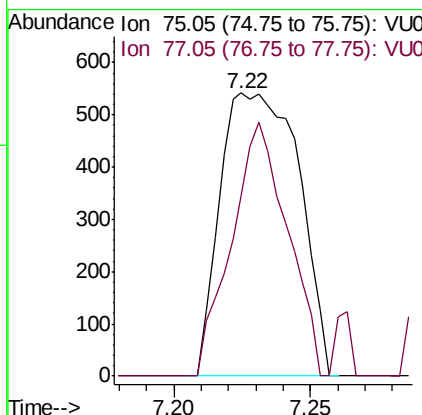
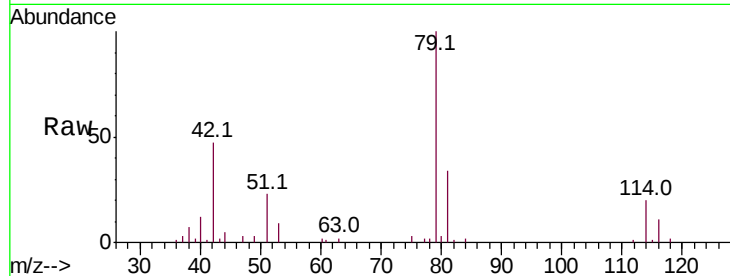




#39
 cis-1,3-Dichloropropene
 Concen: 0.076 ug/L
 RT: 7.22 min Scan# 1882
 Delta R.T. -0.04 min
 Lab File: VU028278.D
 Acq: 20 Nov 2018 15:11

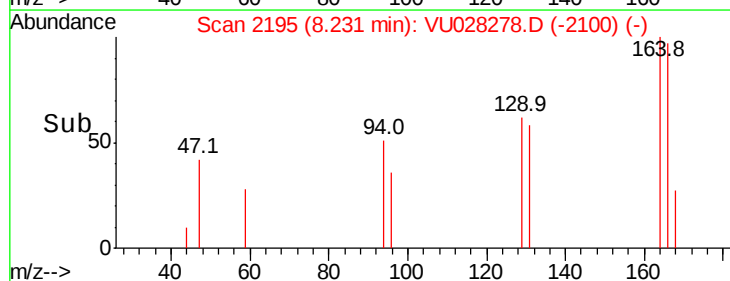
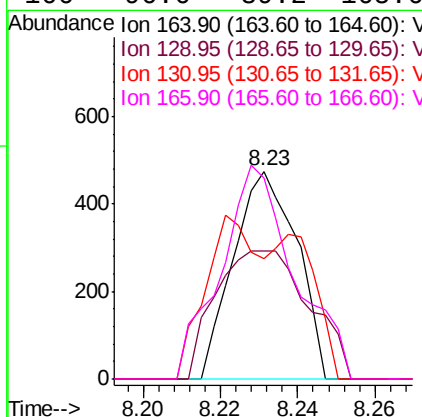
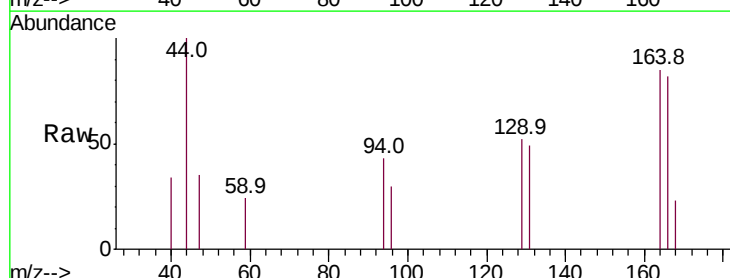
Instrument :
 MSVOA_U
 ClientSampleId :

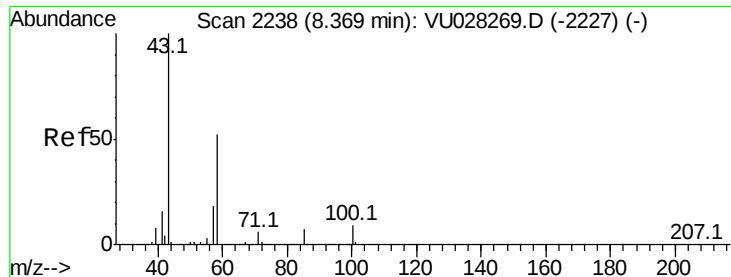
Tot Ion: 75 Resp: 1088
 Ion Ratio Lower Upper
 75 100
 77 63.7 21.7 40.3#



#47
 Tetrachloroethene
 Concen: 0.080 ug/L
 RT: 8.23 min Scan# 2195
 Delta R.T. 0.01 min
 Lab File: VU028278.D
 Acq: 20 Nov 2018 15:11

Tgt Ion:164 Resp: 539
 Ion Ratio Lower Upper
 164 100
 129 61.8 67.6 125.6#
 131 58.2 66.3 123.1#
 166 96.6 89.2 165.6

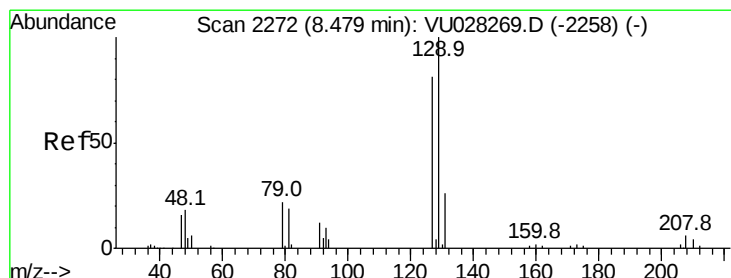
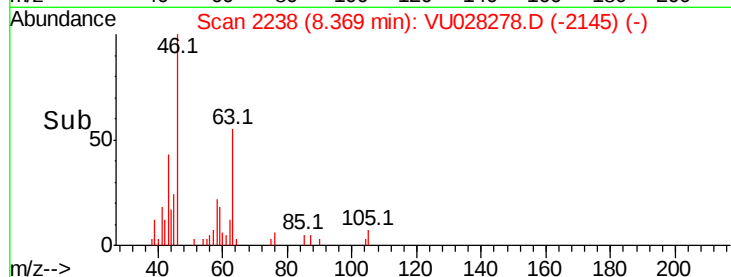
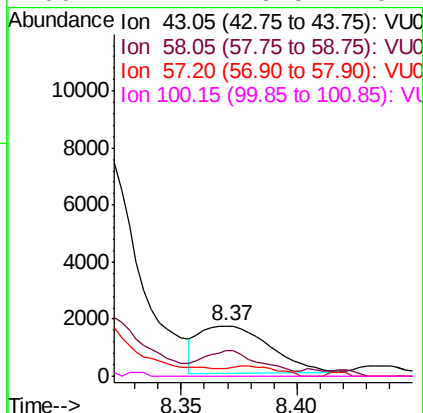
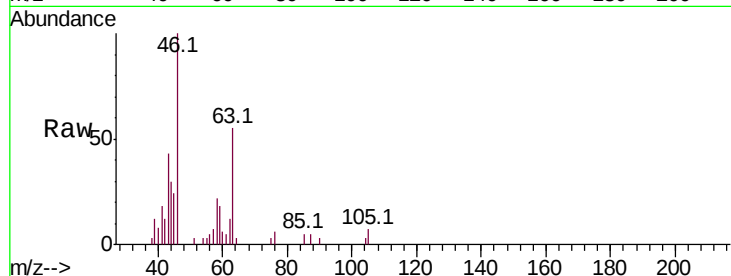




#48
2-Hexanone
Concen: 0.620 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU028278.D
Acq: 20 Nov 2018 15:11

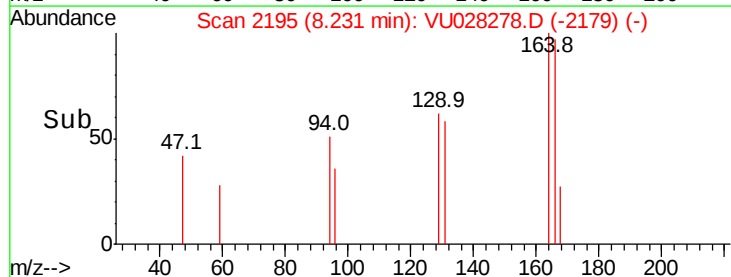
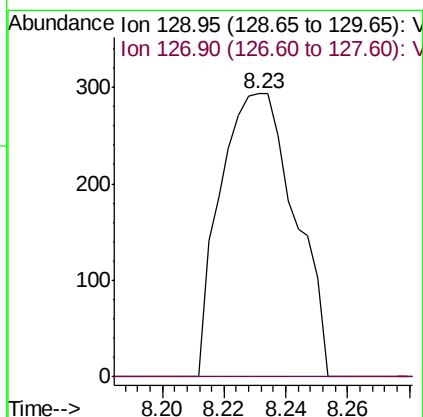
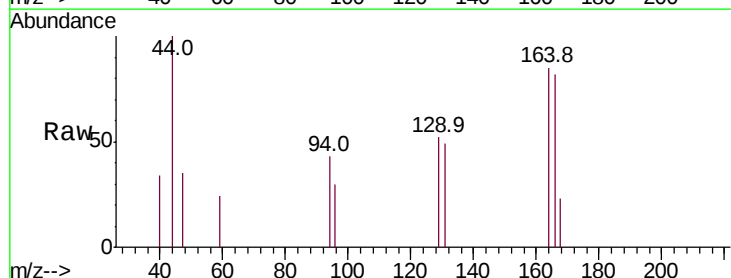
Instrument :
MSVOA_U
ClientSampleId :

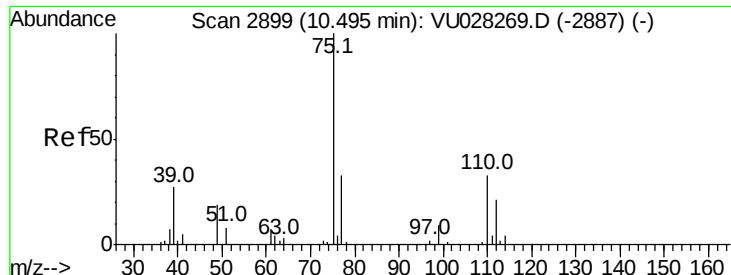
Tot Ion: 43 Resp: 3576
Ion Ratio Lower Upper
43 100
58 33.7 41.1 61.7#
57 14.6 13.8 20.8
100 2.2 6.5 9.7#



#49
Dibromochloromethane
Concen: 0.071 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VU028278.D
Acq: 20 Nov 2018 15:11

Tgt Ion: 129 Resp: 491
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.5#





#59

1,2,3-Trichloropropane

Concen: 1.202 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028278.D

Acq: 20 Nov 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 7861

Ion Ratio Lower Upper

75 100

77 37.5 25.7 38.5

