

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028282.D
 Acq On : 20 Nov 2018 16:58
 Operator : MD/SY
 Sample : J5995-19DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 07:10:35 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	126833	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	124302	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	50198	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	38319	4.01	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.20%
7) Chloroethane-d5	1.68	69	36891	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.28	63	55723	2.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.60%#
20) 2-Butanone-d5	4.20	46	179530	56.21	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.42%
24) Chloroform-d	4.65	84	81636	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
26) 1,2-Dichloroethane-d4	5.31	65	47277	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.34	84	151378	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.60%
36) 1,2-Dichloropropane-d6	6.33	67	61213	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.57	98	125883	3.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.60%
43) trans-1,3-Dichloropropene-	7.85	79	18196	4.38	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.60%
46) 2-Hexanone-d5	8.31	63	123528	49.63	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.26%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	47086	5.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	47289	5.06	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	11533	0.896	ug/L	87
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	442	0.054	ug/L #	21
12) 1,1-Dichloroethene	2.28	96	511	0.065	ug/L #	1
13) Acetone	2.33	43	2066	0.941	ug/L	77
15) Methyl Acetate	2.63	43	685	0.118	ug/L #	59
16) Methylene chloride	2.70	84	2221	0.226	ug/L	92
17) Methyl tert-butyl Ether	3.01	73	141994	6.054	ug/L	98
18) trans-1,2-Dichloroethene	2.99	96	9994	1.202	ug/L	78
19) 1,1-Dichloroethane	3.45	63	4480	0.232	ug/L #	92
22) cis-1,2-Dichloroethene	4.23	96	86702	8.819	ug/L	94
25) Chloroform	4.67	83	1519	0.073	ug/L	76
34) Trichloroethene	6.19	95	48501	4.830	ug/L	97
35) Methylcyclohexane	6.33	83	12702	0.803	ug/L #	19
37) 1,2-Dichloropropane	6.33	63	6363	0.544	ug/L #	92
39) cis-1,3-Dichloropropene	7.23	75	1187	0.080	ug/L #	57
49) Dibromochloromethane	8.22	129	323	0.045	ug/L #	10
59) 1,2,3-Trichloropropane	11.48	75	7625	1.128	ug/L	98

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Response via : Initial Calibration

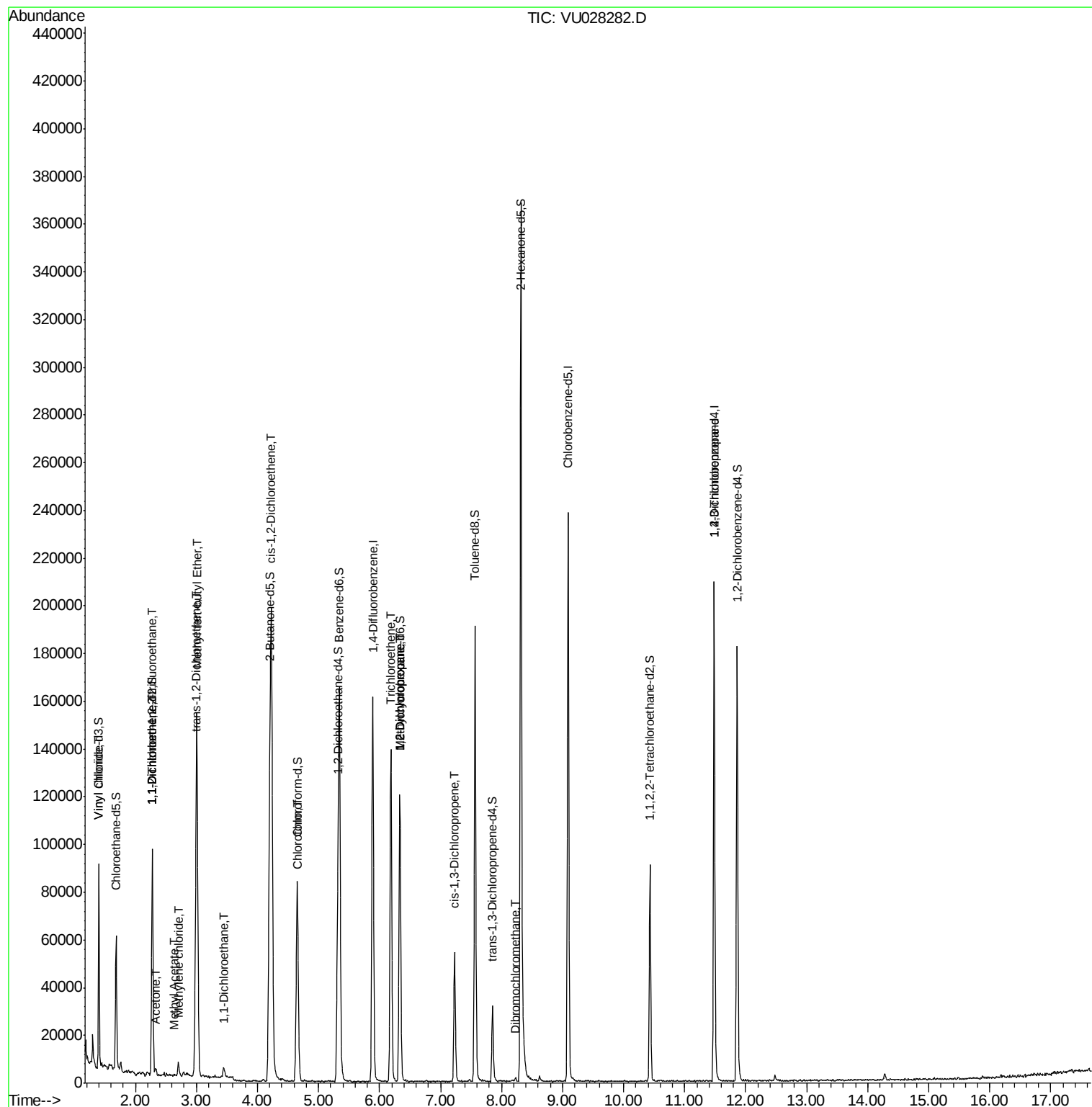
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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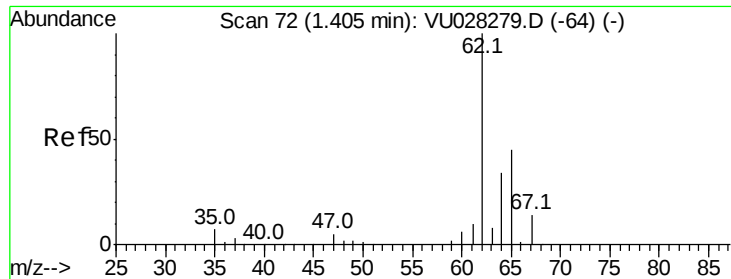
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.896 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

Instrument :

MSVOA_U

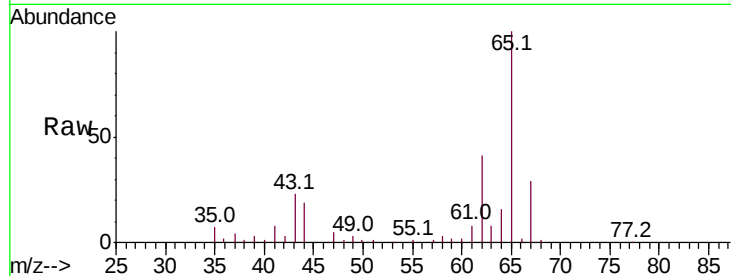
ClientSampleId :

Tot Ion: 62 Resp: 11533

Ion Ratio Lower Upper

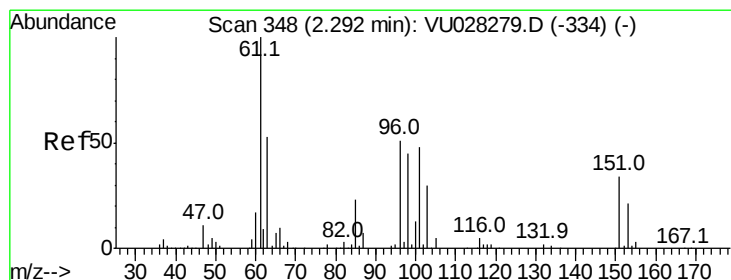
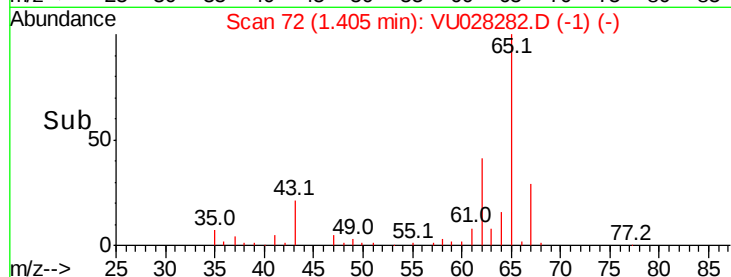
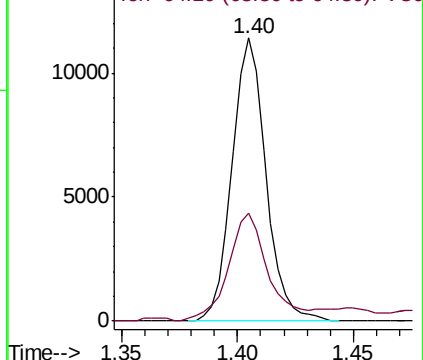
62 100

64 38.2 21.7 40.3



Abundance Ion 62.00 (61.70 to 62.70): VU028282.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VU028282.D (-64) (-)



#10

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

Concen: 0.054 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.01 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

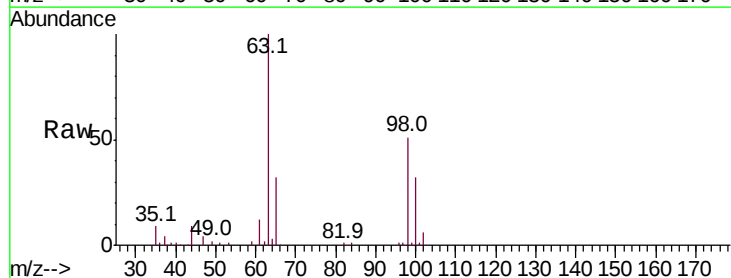
Tgt Ion: 101 Resp: 442

Ion Ratio Lower Upper

101 100

85 0.0 37.4 56.2#

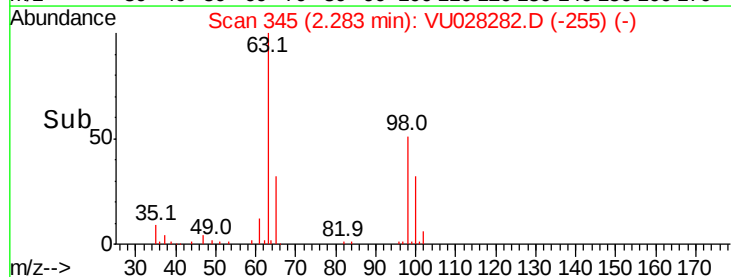
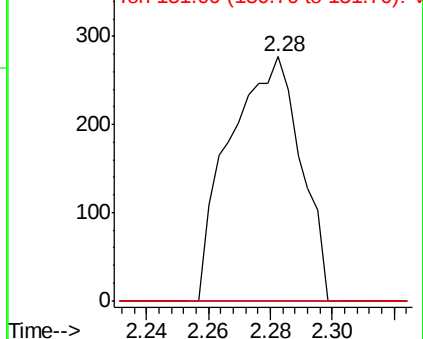
151 0.0 55.0 82.4#

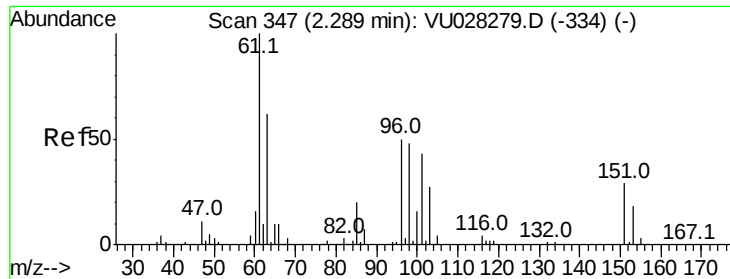


Abundance Ion 101.00 (100.70 to 101.70): VU028282.D (-255) (-)

Ion 85.00 (84.70 to 85.70): VU028282.D (-255) (-)

Ion 151.00 (150.70 to 151.70): VU028282.D (-255) (-)





#12

1,1-Dichloroethene

Concen: 0.065 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

Instrument :

MSVOA_U

ClientSampled :

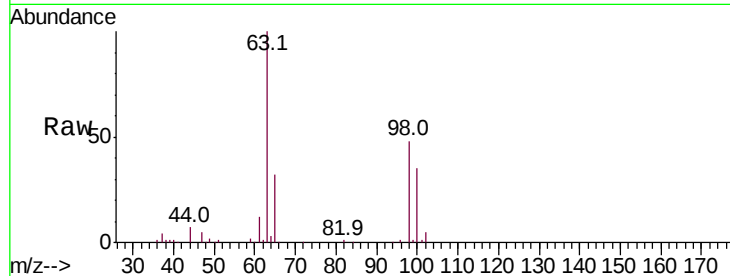
Tot Ion: 96 Resp: 511

Ion Ratio Lower Upper

96 100

61 1135.4 145.5 270.1#

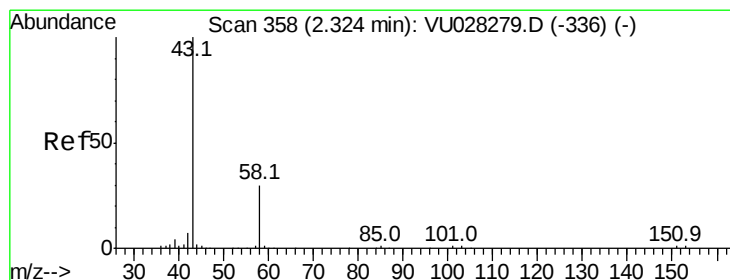
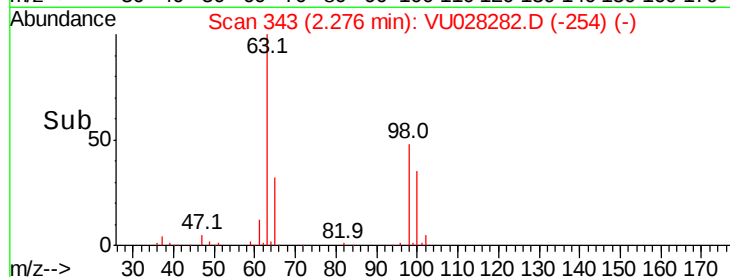
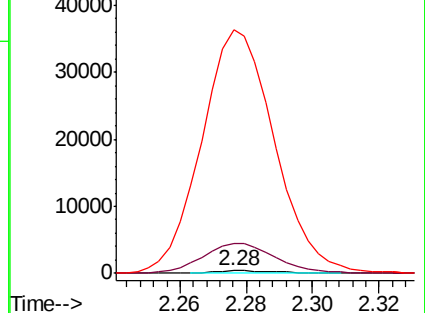
63 9177.8 98.6 183.2#



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: 0.941 ug/L

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU028282.D

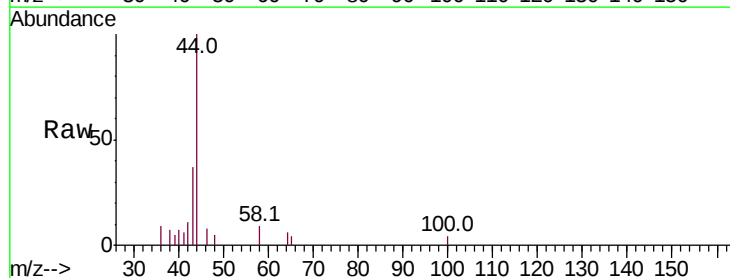
Acq: 20 Nov 2018 16:58

Tgt Ion: 43 Resp: 2066

Ion Ratio Lower Upper

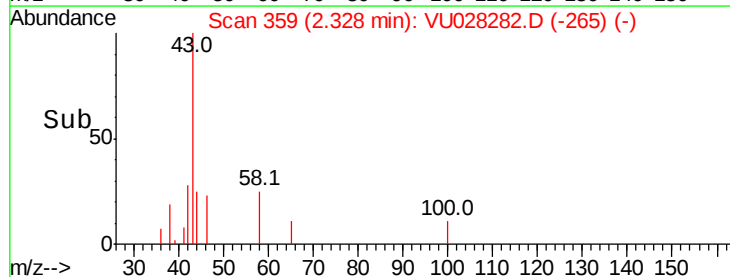
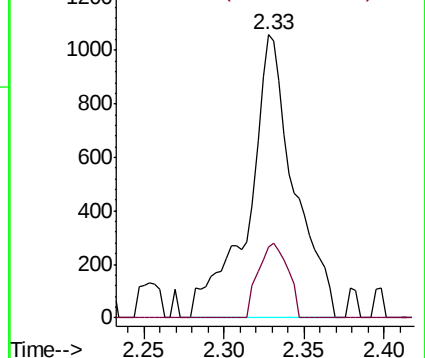
43 100

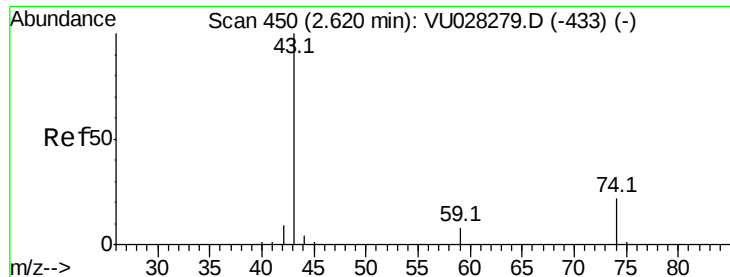
58 17.0 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#15

Methyl Acetate

Concen: 0.118 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

Instrument :

MSVOA_U

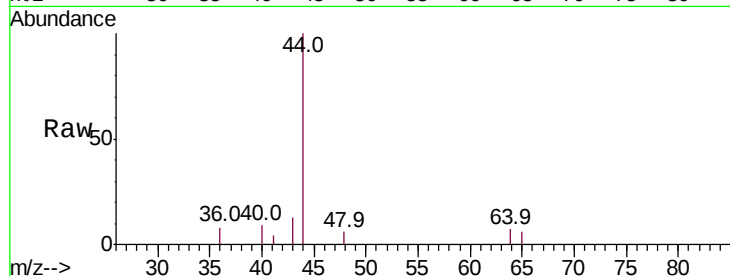
ClientSampleId :

Tot Ion: 43 Resp: 685

Ion Ratio Lower Upper

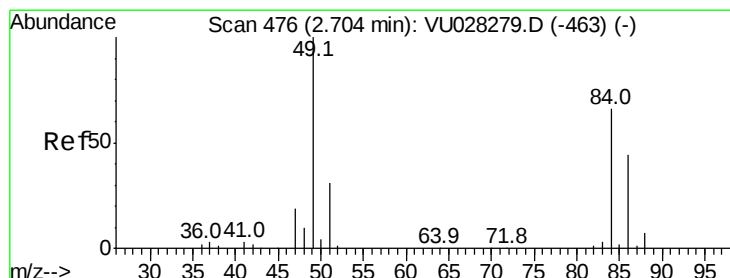
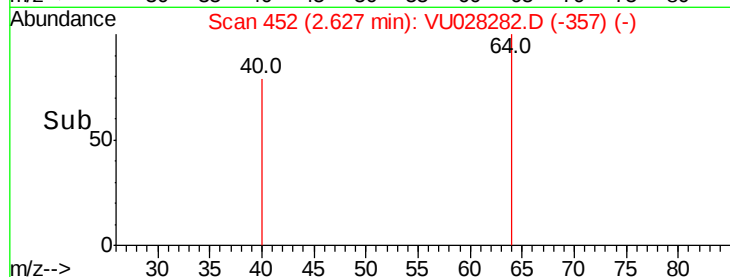
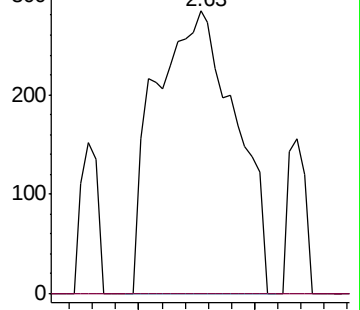
43 100

74 0.0 14.7 22.1#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.226 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

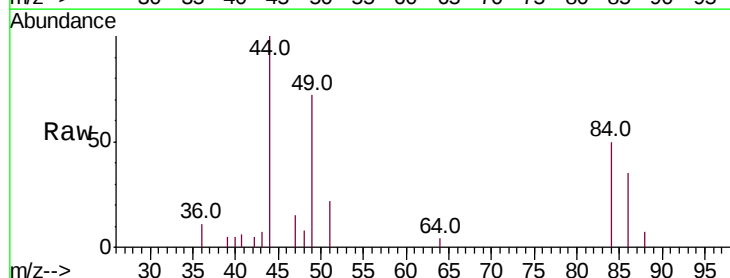
Tgt Ion: 84 Resp: 2221

Ion Ratio Lower Upper

84 100

86 68.7 45.3 84.1

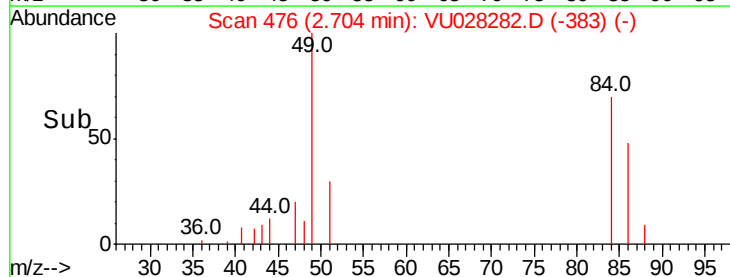
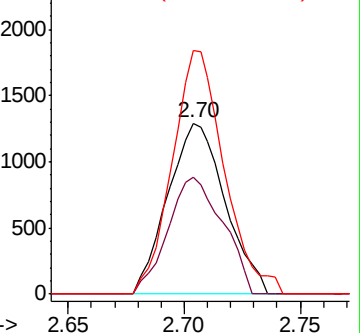
49 142.6 107.9 200.5

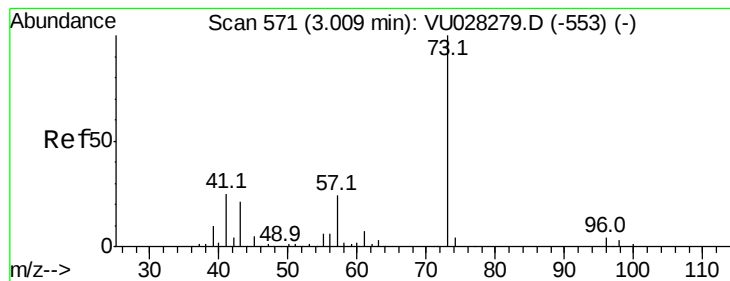


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



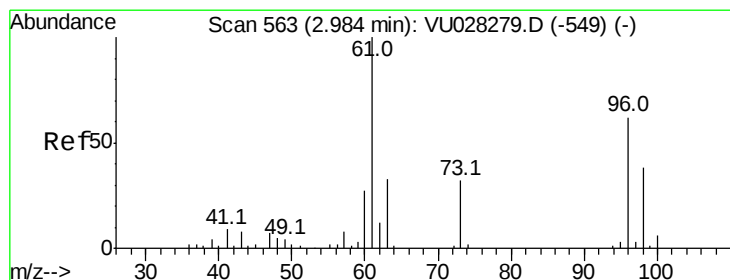
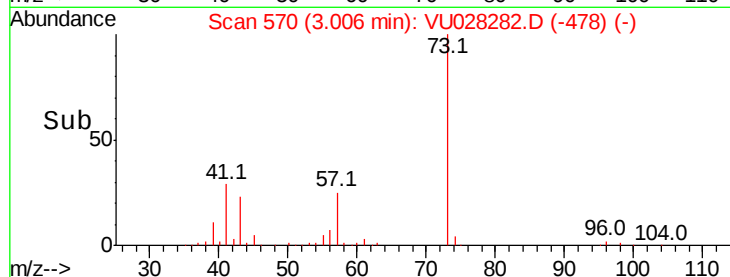
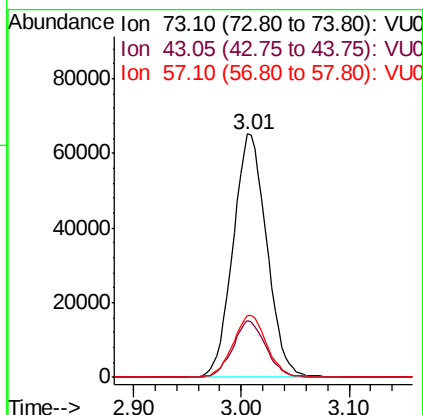
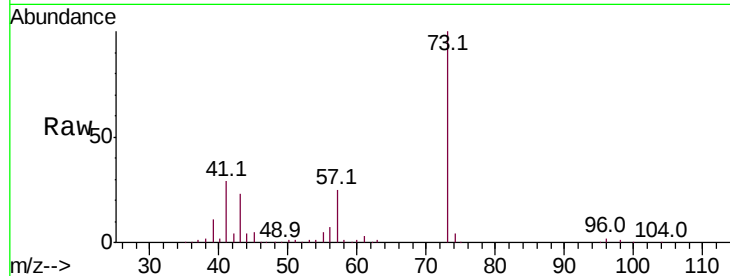


#17

Methvl tert-butvl Ether
 Concen: 6.054 ug/L
 RT: 3.01 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VU028282.D
 Acq: 20 Nov 2018 16:58

Instrument :
 MSVOA_U
 ClientSampleId :

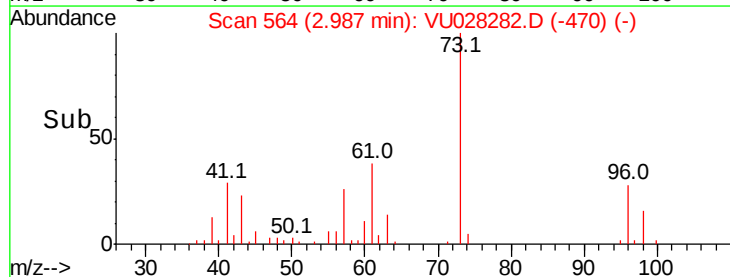
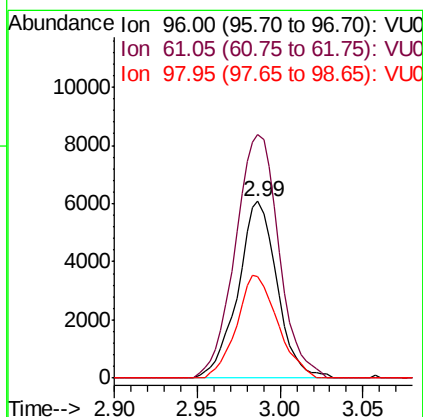
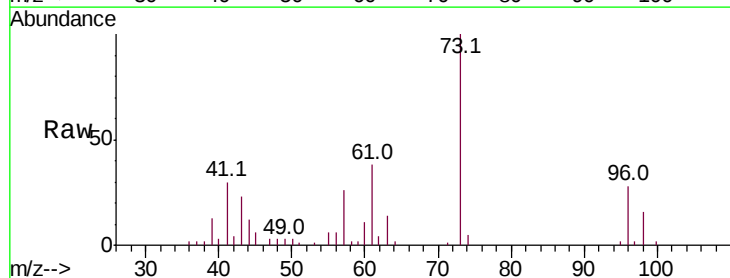
Tot Ion: 73 Resp: 141994
 Ion Ratio Lower Upper
 73 100
 43 23.0 18.8 28.2
 57 25.4 19.2 28.8

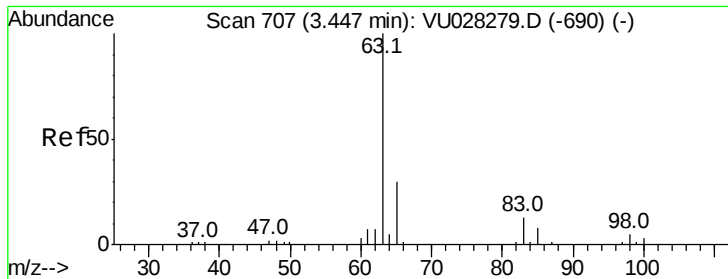


#18

trans-1,2-Dichloroethene
 Concen: 1.202 ug/L
 RT: 2.99 min Scan# 564
 Delta R.T. 0.00 min
 Lab File: VU028282.D
 Acq: 20 Nov 2018 16:58

Tgt Ion: 96 Resp: 9994
 Ion Ratio Lower Upper
 96 100
 61 138.0 122.2 227.0
 98 57.2 44.9 83.5

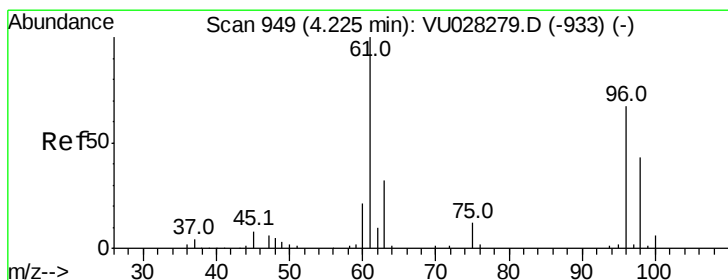
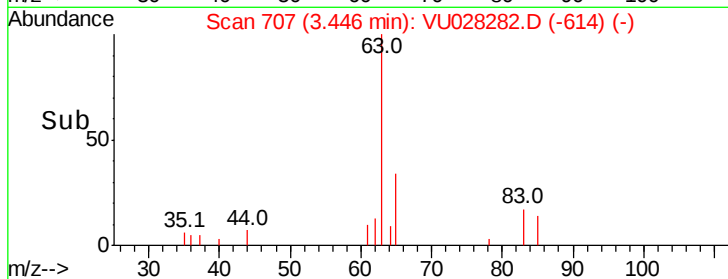
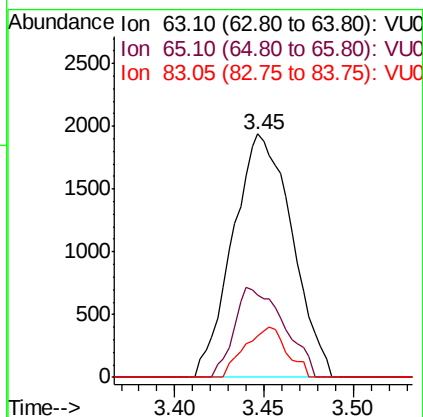
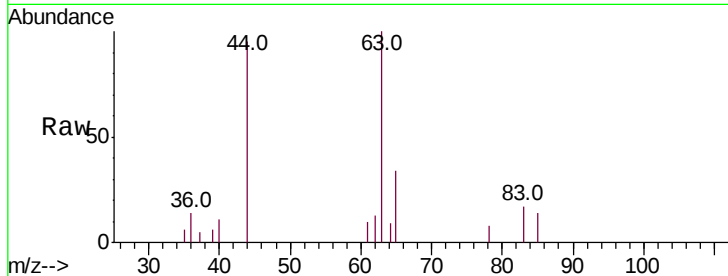




#19
 1,1-Dichloroethane
 Concen: 0.232 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU028282.D
 Acq: 20 Nov 2018 16:58

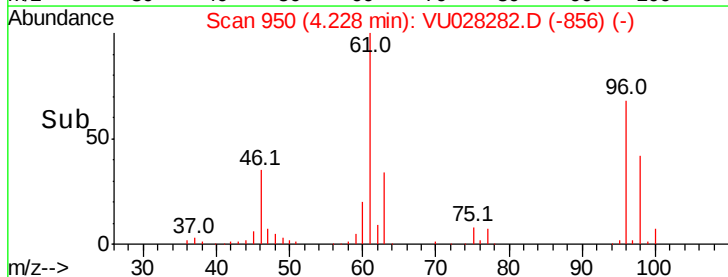
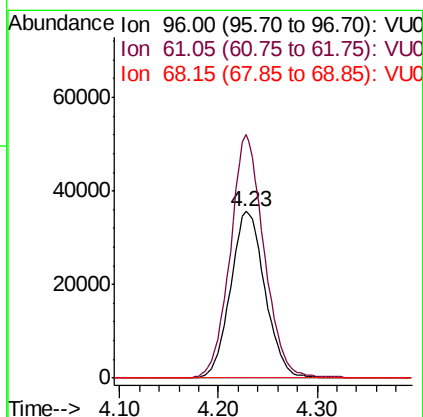
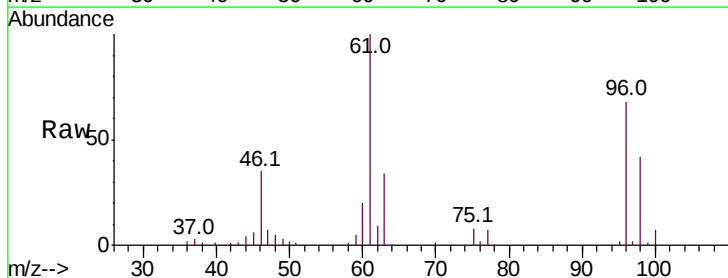
Instrument :
 MSVOA_U
 ClientSampled :

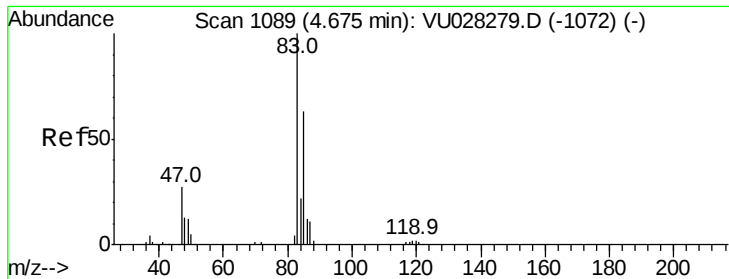
Tot Ion: 63 Resp: 4480
 Ion Ratio Lower Upper
 63 100
 65 33.7 21.2 39.4
 83 16.9 8.8 16.4#



#22
 cis-1,2-Dichloroethene
 Concen: 8.819 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU028282.D
 Acq: 20 Nov 2018 16:58

Tgt Ion: 96 Resp: 86702
 Ion Ratio Lower Upper
 96 100
 61 146.4 108.0 200.6
 68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.073 ug/L

RT: 4.67 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

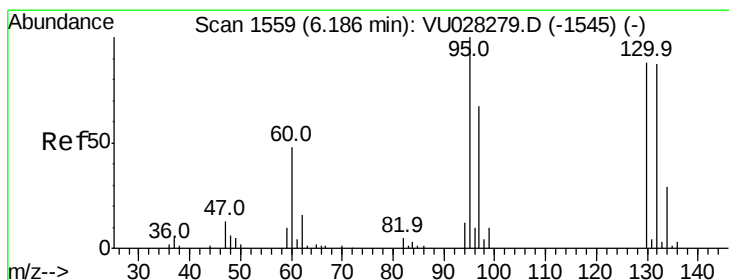
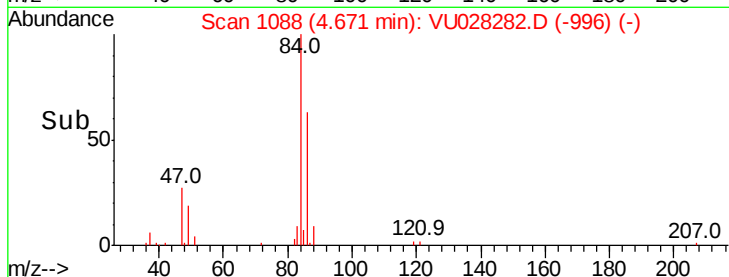
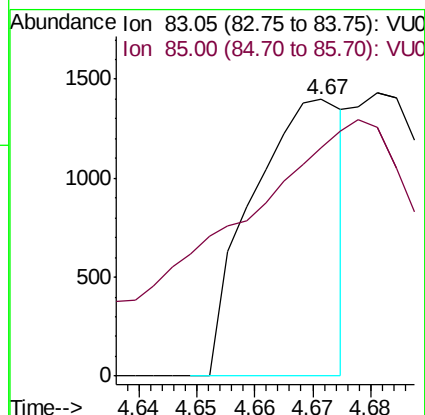
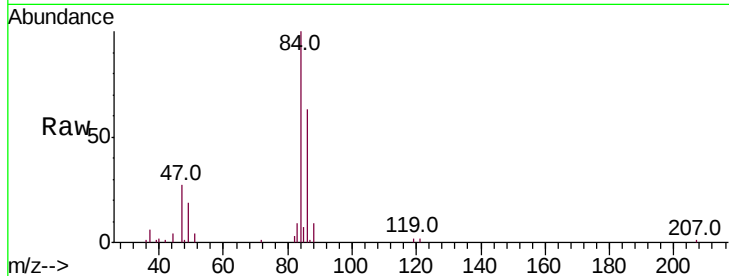
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 1519

Ion Ratio Lower Upper

83 100

85 82.7 44.6 82.8



#34

Trichloroethene

Concen: 4.830 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

Tgt Ion: 95 Resp: 48501

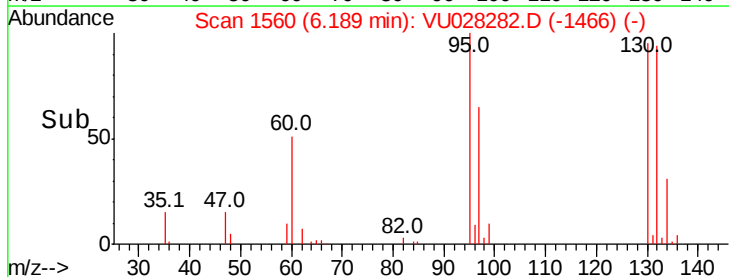
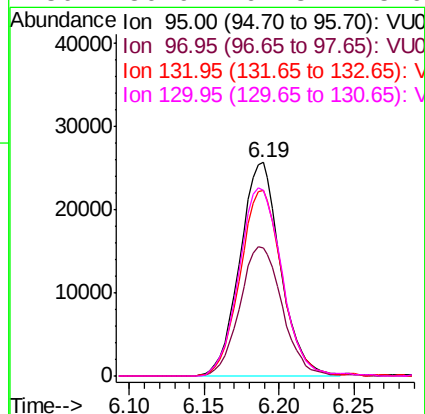
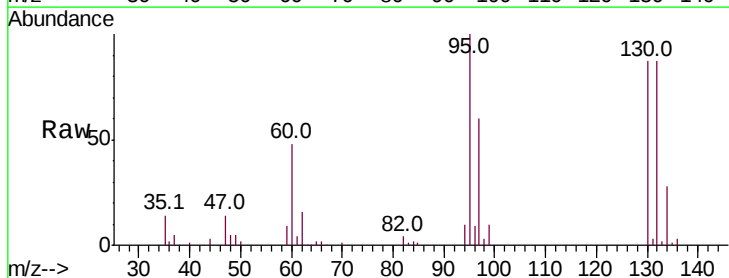
Ion Ratio Lower Upper

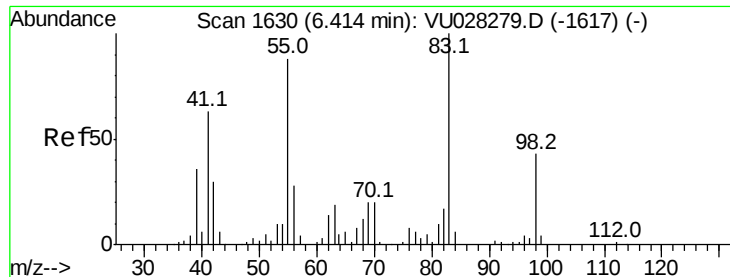
95 100

97 60.0 46.5 86.3

132 86.7 58.9 109.3

130 86.9 61.3 113.9





#35

Methylcyclohexane

Concen: 0.803 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

Instrument :

MSVOA_U

ClientSampled :

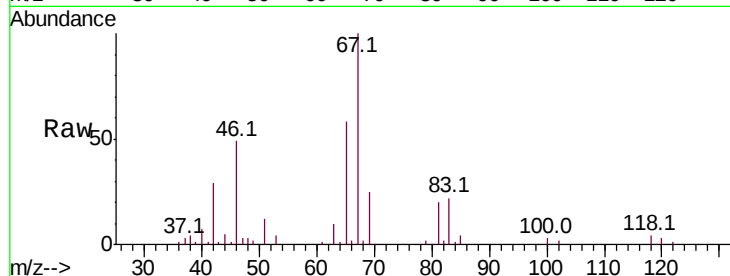
Tot Ion: 83 Resp: 12702

Ion Ratio Lower Upper

83 100

55 0.0 73.2 109.8#

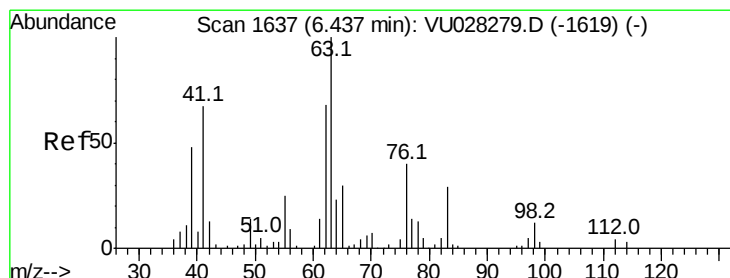
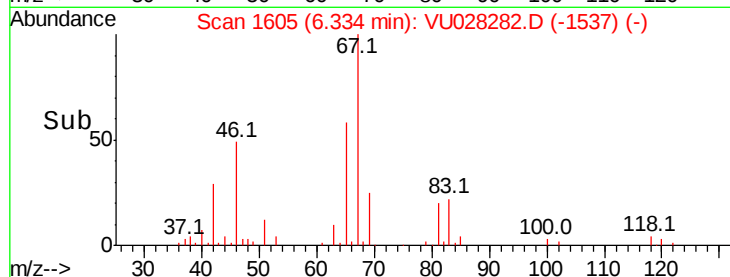
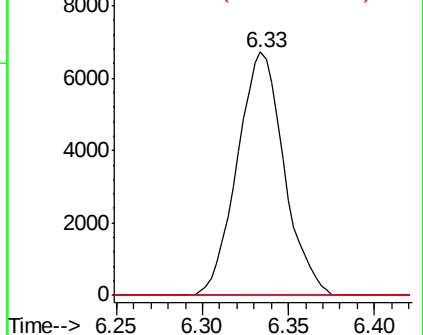
98 12.2 33.4 50.2#



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: 0.544 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU028282.D

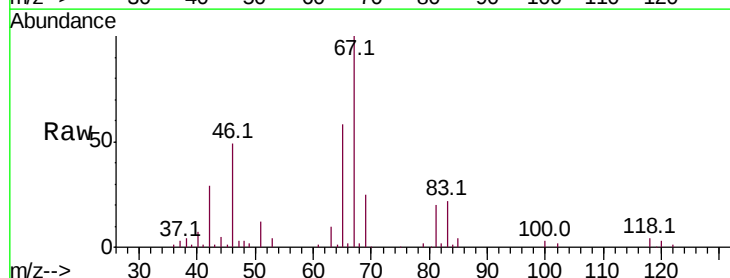
Acq: 20 Nov 2018 16:58

Tgt Ion: 63 Resp: 6363

Ion Ratio Lower Upper

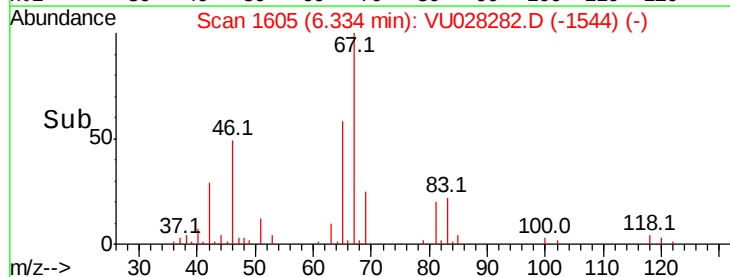
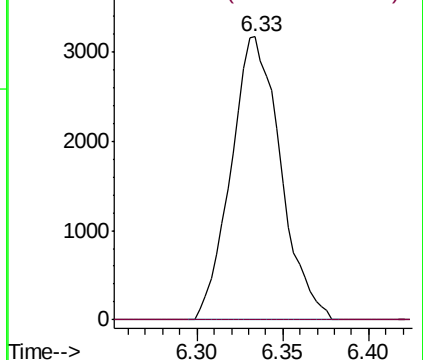
63 100

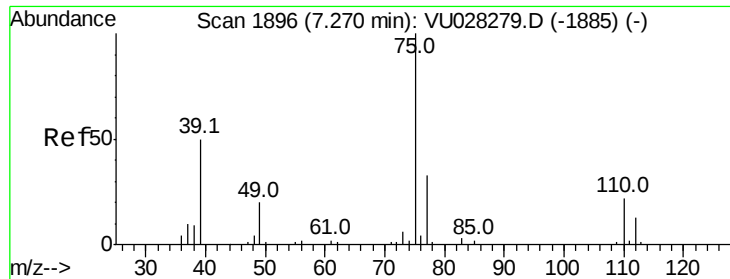
112 0.0 2.2 3.2#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



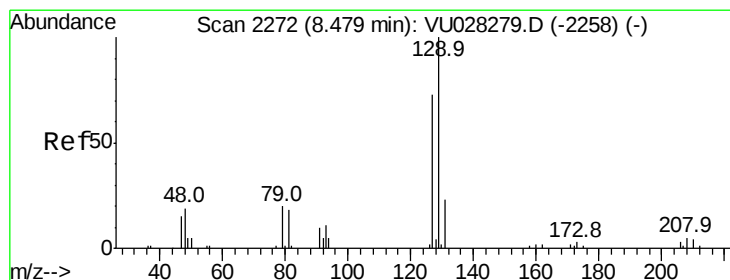
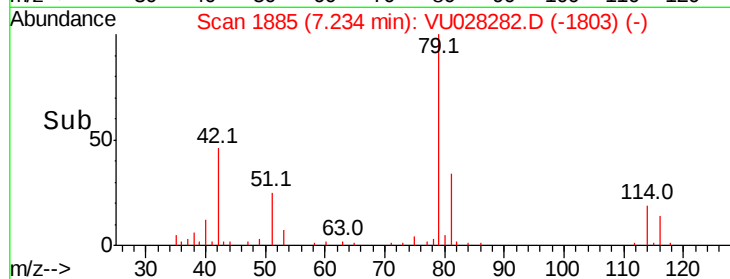
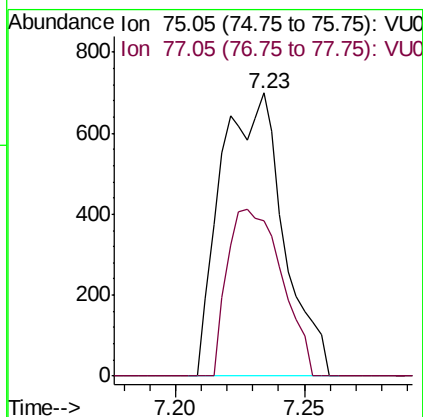
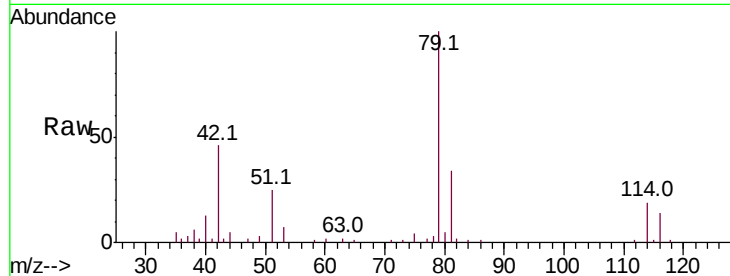


#39

cis-1,3-Dichloropropene
 Concen: 0.080 ug/L
 RT: 7.23 min Scan# 1885
 Delta R.T. -0.04 min
 Lab File: VU028282.D
 Acq: 20 Nov 2018 16:58

Instrument :
 MSVOA_U
 ClientSampleId :

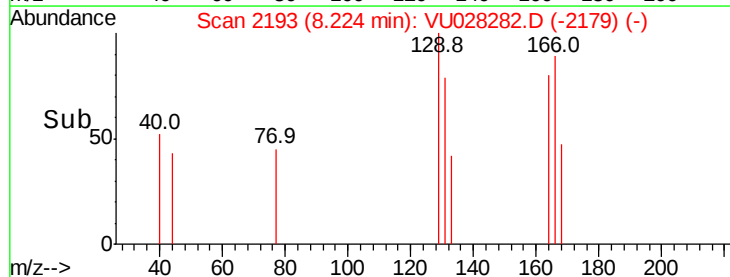
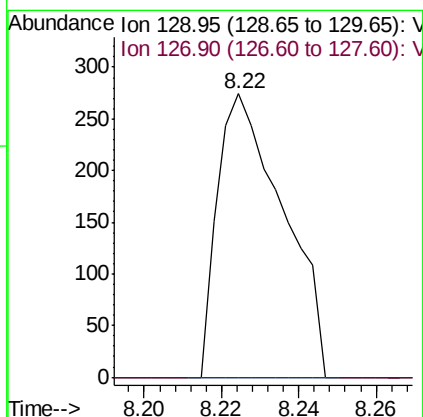
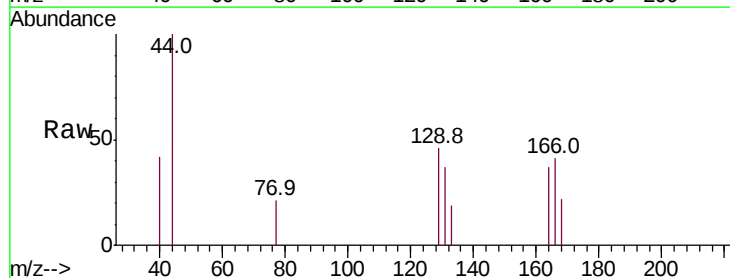
Tot Ion: 75 Resp: 1187
 Ion Ratio Lower Upper
 75 100
 77 54.8 21.7 40.3#

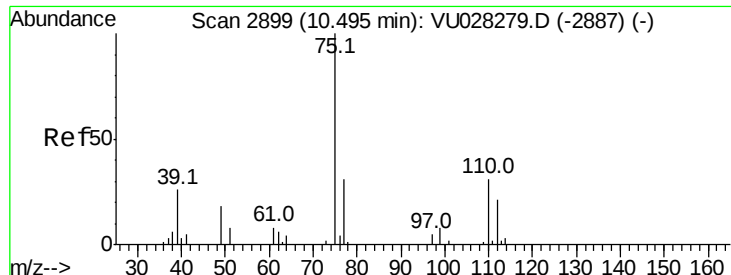


#49

Dibromochloromethane
 Concen: 0.045 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. -0.25 min
 Lab File: VU028282.D
 Acq: 20 Nov 2018 16:58

Tgt Ion: 129 Resp: 323
 Ion Ratio Lower Upper
 129 100
 127 0.0 54.7 101.5#





#59

1,2,3-Trichloropropane

Concen: 1.128 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028282.D

Acq: 20 Nov 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 7625

Ion Ratio Lower Upper

75 100

77 31.2 25.7 38.5

