

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013020\
 Data File : VU036628.D
 Acq On : 30 Jan 2020 19:12
 Operator : JC/MD
 Sample : L1326-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DBCS4

Quant Time: Jan 31 04:38:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 31 04:01:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	297325	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	270860	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	132705	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	89333	40.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.22%
7) Chloroethane-d5	1.93	69	78149	40.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.80%
11) 1,1-Dichloroethene-d2	2.59	63	117015	32.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.00%
21) 2-Butanone-d5	4.68	46	145211	109.85	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.85%
24) Chloroform-d	5.11	84	166154	45.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.12%
26) 1,2-Dichloroethane-d4	5.75	65	99223	43.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.30%
32) Benzene-d6	5.77	84	347707	45.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.28%
36) 1,2-Dichloropropane-d6	6.73	67	109628	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.34%
41) Toluene-d8	7.93	98	328800	44.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.72%
43) trans-1,3-Dichloropropene-	8.21	79	53161	47.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.16%
47) 2-Hexanone-d5	8.67	63	119192	108.26	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.26%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	167613	48.01	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.02%
64) 1,2-Dichlorobenzene-d4	12.21	152	127503	44.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.54%

Target Compounds

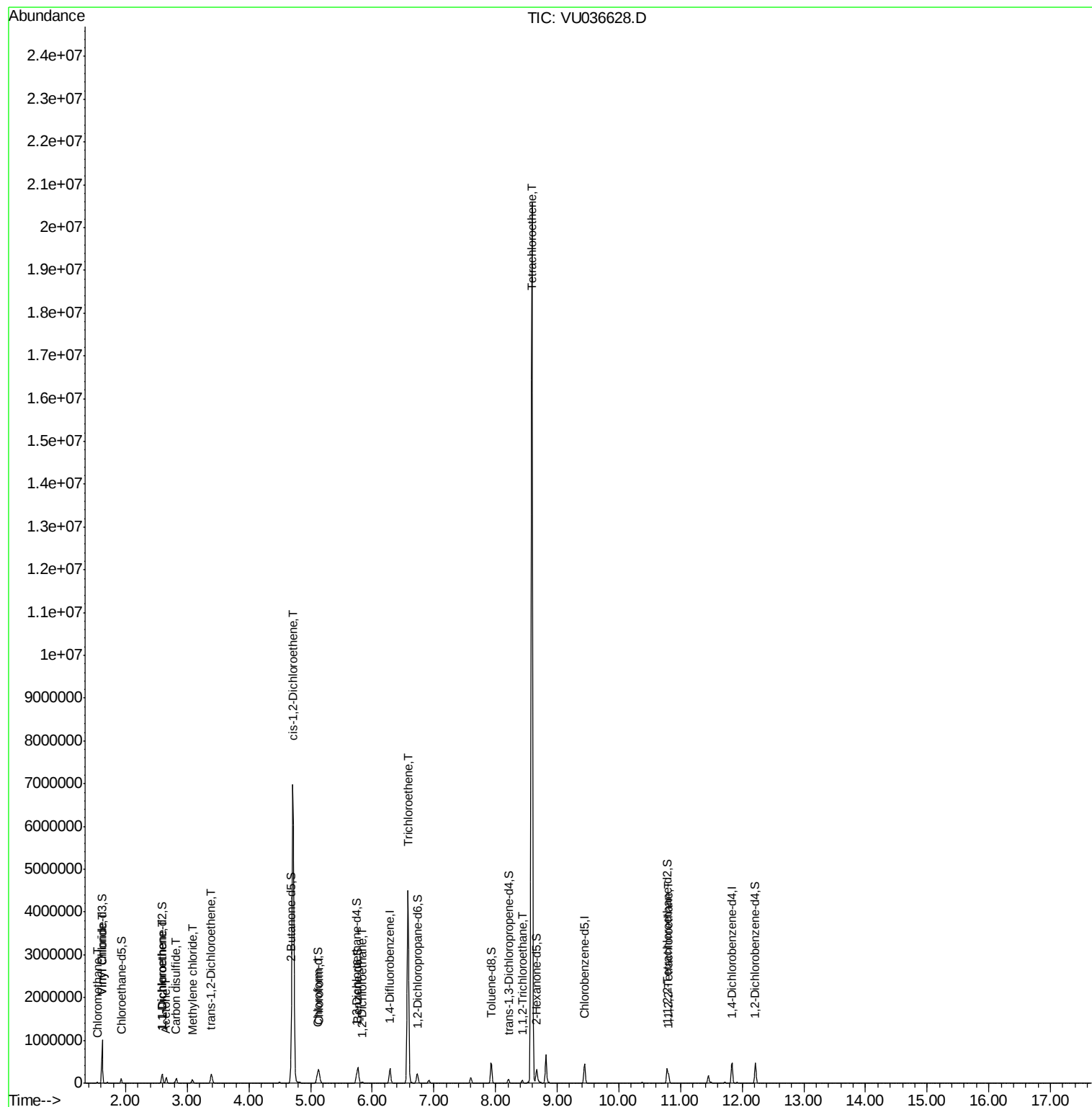
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.54	50	15543	6.447	ug/L	98
5) Vinyl chloride	1.62	62	588657	228.979	ug/L	100
12) 1,1-Dichloroethene	2.61	96	6935	3.753	ug/L #	1
13) Acetone	2.66	43	140189	109.562	ug/L	98
14) Carbon disulfide	2.82	76	138220	24.755	ug/L	100
16) Methylene chloride	3.08	84	41390	18.466	ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	92829	46.761	ug/L	98
20) cis-1,2-Dichloroethene	4.72	96	3833473	1698.790	ug/L	97
25) Chloroform	5.13	83	238825	65.795	ug/L	99
27) 1,2-Dichloroethane	5.84	62	12149	4.473	ug/L #	93
34) Trichloroethene	6.58	95	1558744	747.807	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	25066	12.141	ug/L	99
46) Tetrachloroethene	8.59	164	5027973	2969.276	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.81	83	98213	27.594	ug/L	99

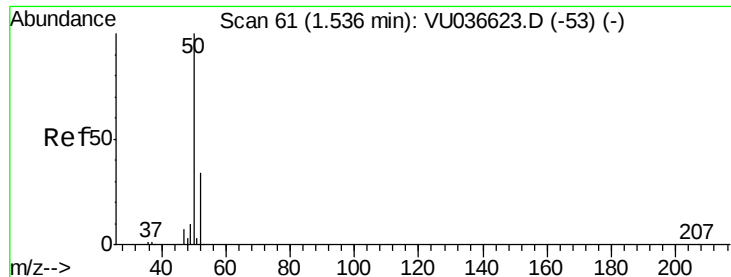
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 6.447 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

Instrument :

MSVOA_U

ClientSampleId :

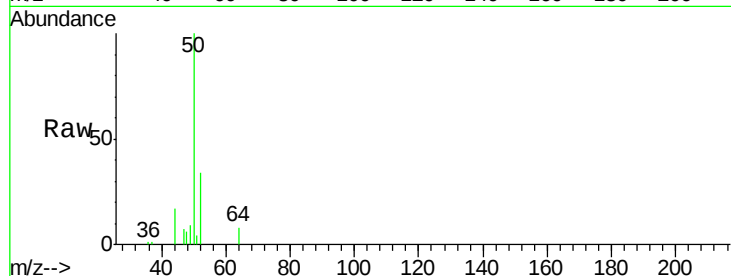
DBCS4

Tot Ion: 50 Resp: 15543

Ion Ratio Lower Upper

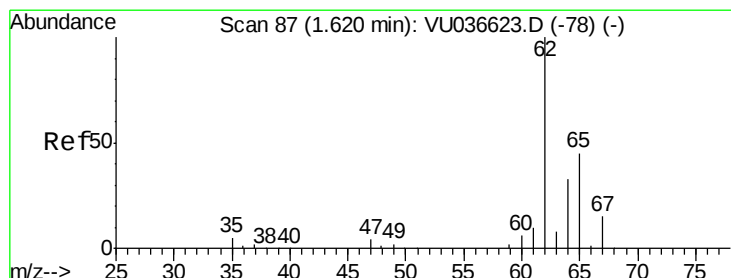
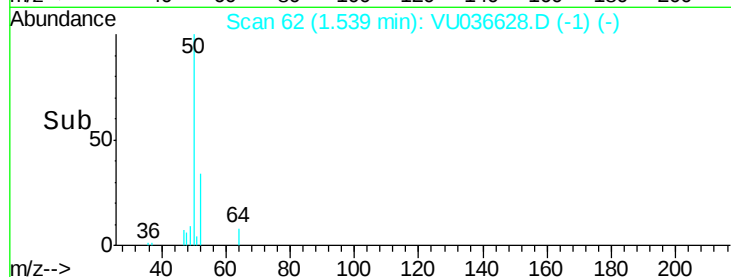
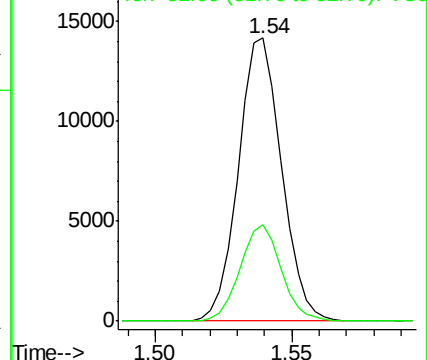
50 100

52 34.1 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#5

Vinyl chloride

Concen: 228.979 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU036628.D

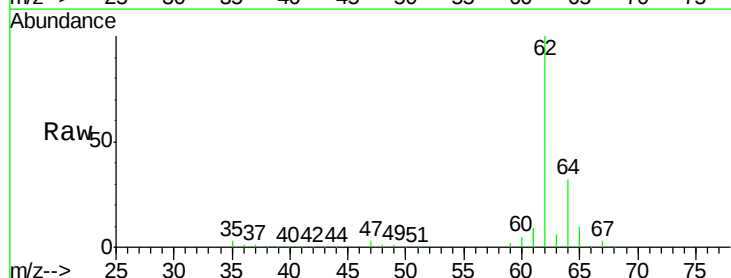
Acq: 30 Jan 2020 19:12

Tgt Ion: 62 Resp: 588657

Ion Ratio Lower Upper

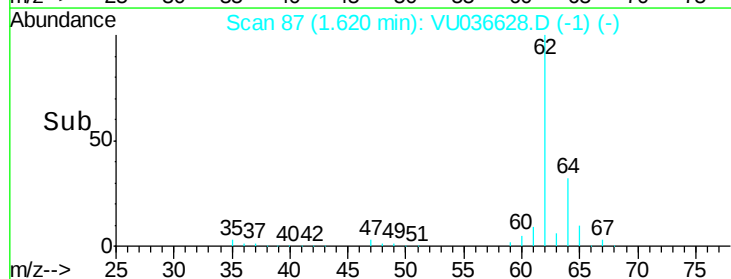
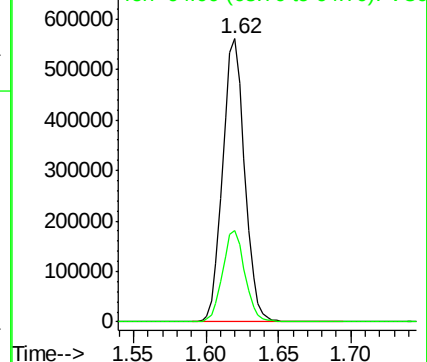
62 100

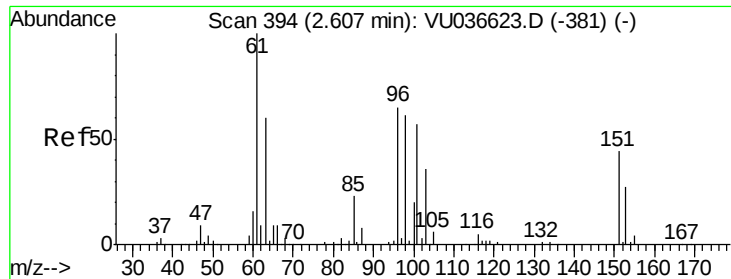
64 32.5 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#12

1,1-Dichloroethene

Concen: 3.753 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

Instrument :

MSVOA_U

ClientSampleId :

DBCS4

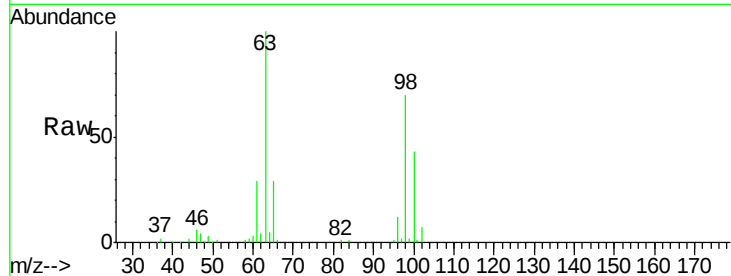
Tot Ion: 96 Resp: 6935

Ion Ratio Lower Upper

96 100

61 235.2 108.6 201.8#

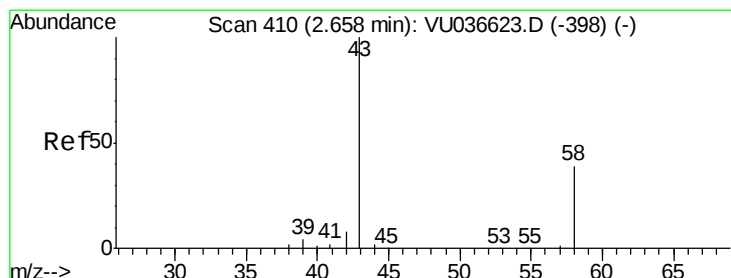
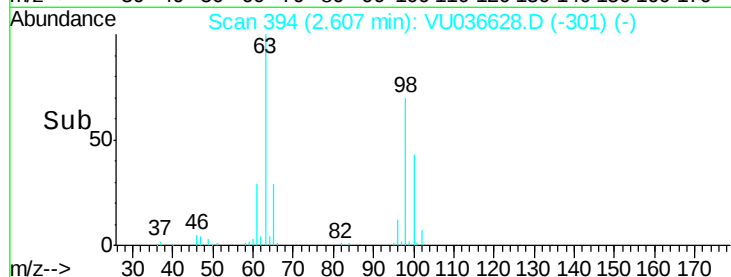
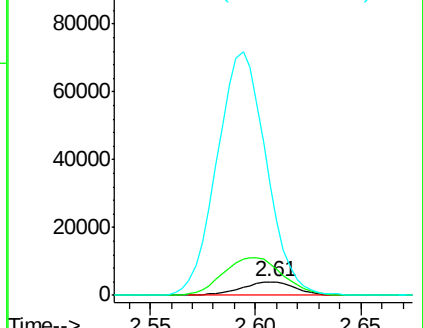
63 813.3 75.0 139.2#



Abundance Ion 96.00 (95.70 to 96.70): VU036628.D (-301) (-)

Ion 61.00 (60.70 to 61.70): VU036628.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VU036628.D (-301) (-)



#13

Acetone

Concen: 109.562 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036628.D

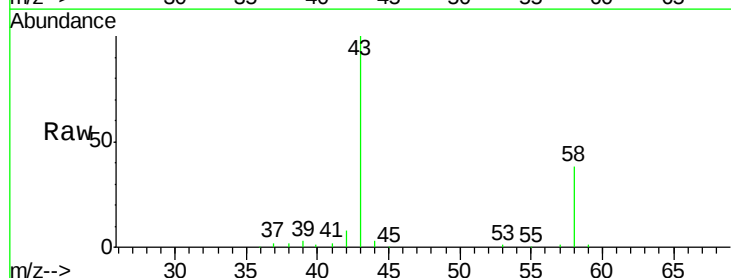
Acq: 30 Jan 2020 19:12

Tgt Ion: 43 Resp: 140189

Ion Ratio Lower Upper

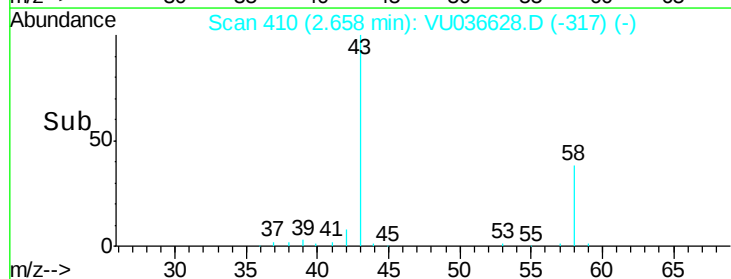
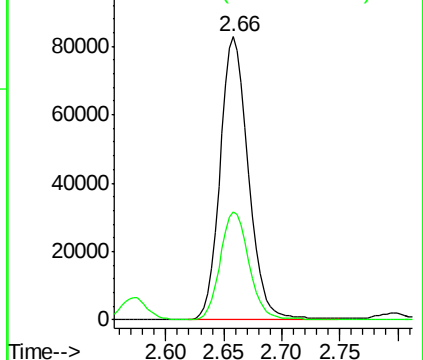
43 100

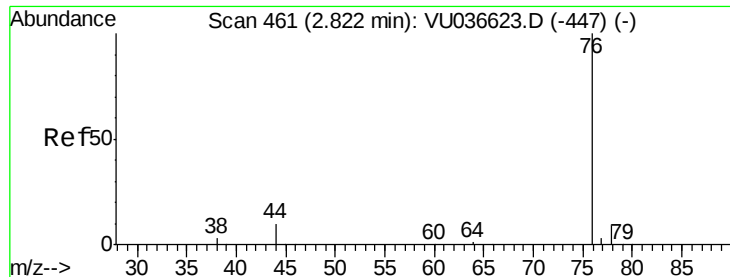
58 38.9 0.0 75.4



Abundance Ion 43.00 (42.70 to 43.70): VU036628.D (-317) (-)

Ion 58.00 (57.70 to 58.70): VU036628.D (-317) (-)





#14

Carbon disulfide

Concen: 24.755 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

Instrument :

MSVOA_U

ClientSampleId :

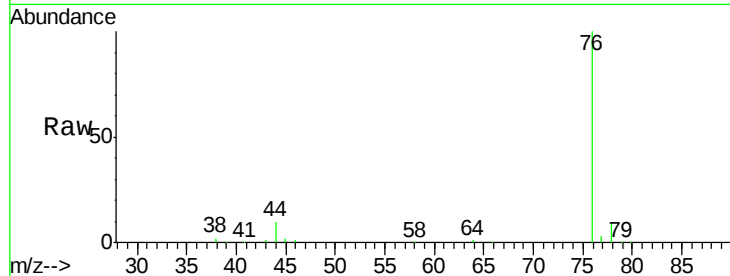
DBCS4

Tot Ion: 76 Resp: 138220

Ion Ratio Lower Upper

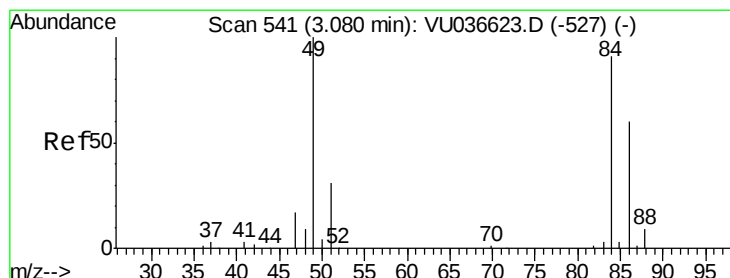
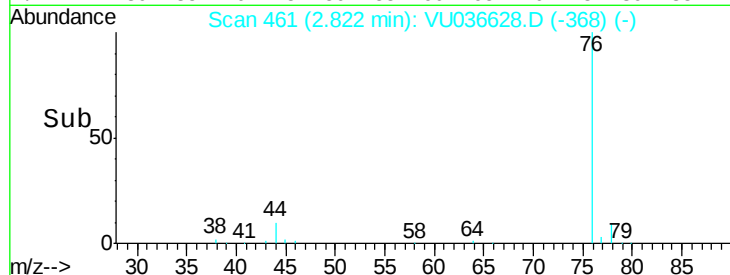
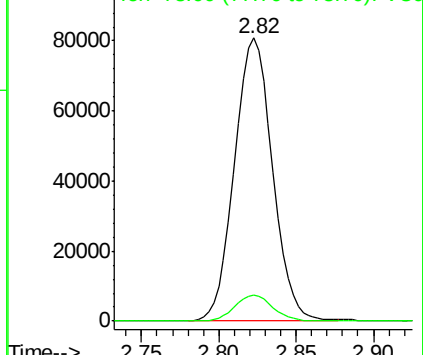
76 100

78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



#16

Methylene chloride

Concen: 18.466 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

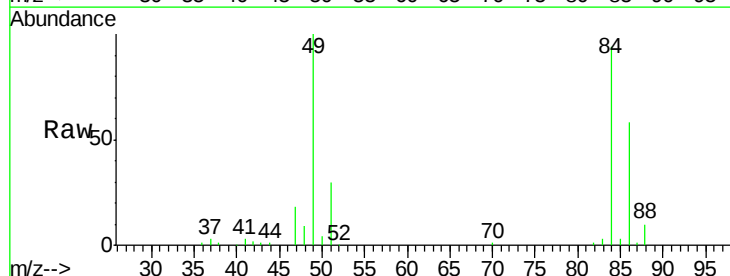
Tgt Ion: 84 Resp: 41390

Ion Ratio Lower Upper

84 100

86 61.2 44.1 81.9

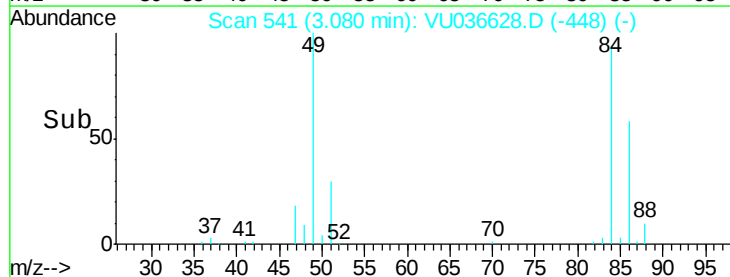
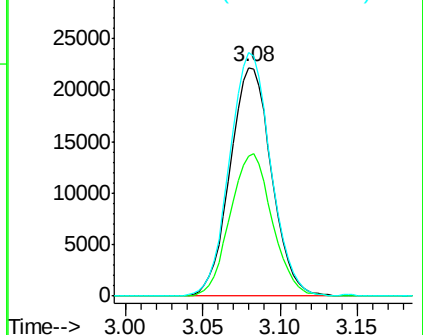
49 106.4 73.3 136.1

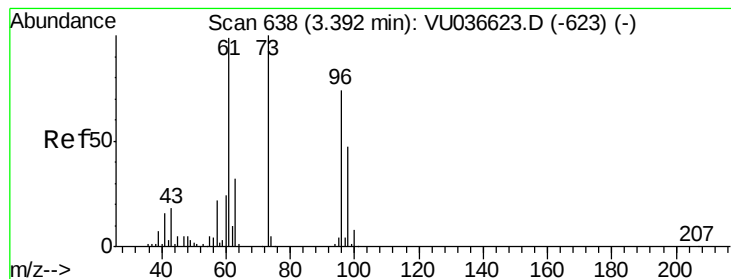


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 46.761 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

Instrument :

MSVOA_U

ClientSampleId :

DBCS4

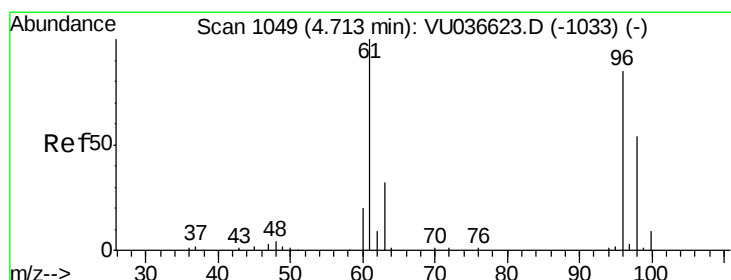
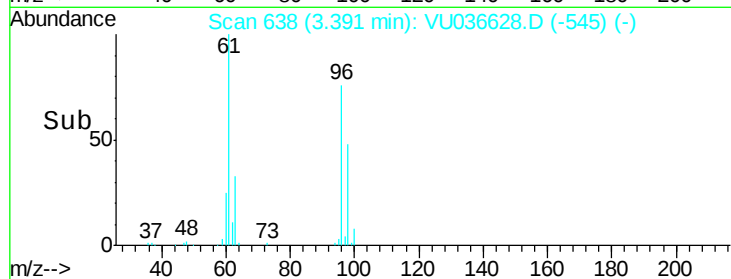
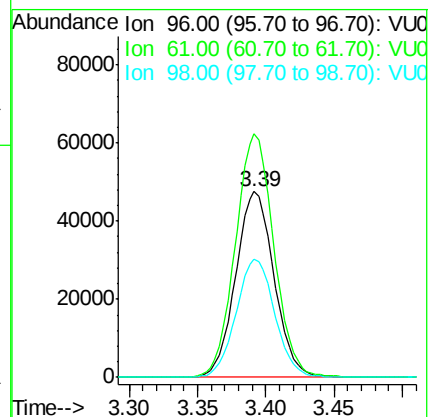
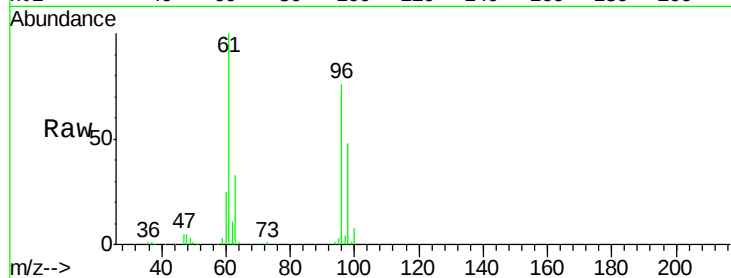
Tot Ion: 96 Resp: 92829

Ion Ratio Lower Upper

96 100

61 131.0 93.4 173.4

98 63.4 46.1 85.5



#20

cis-1,2-Dichloroethene

Concen: 1698.790 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

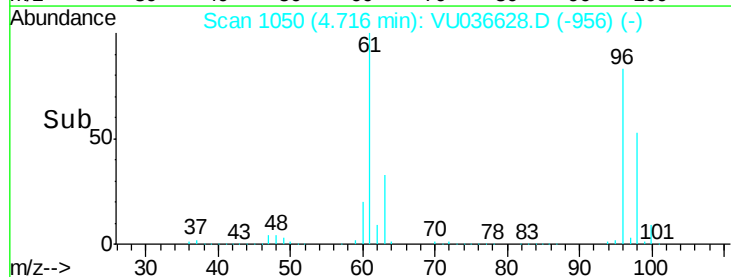
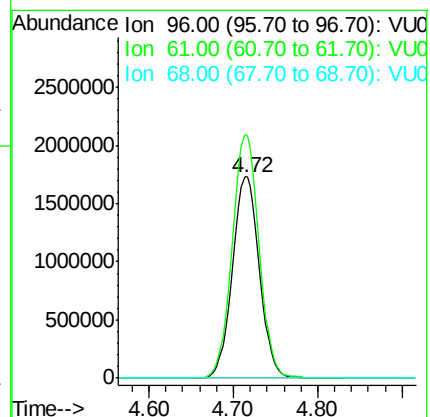
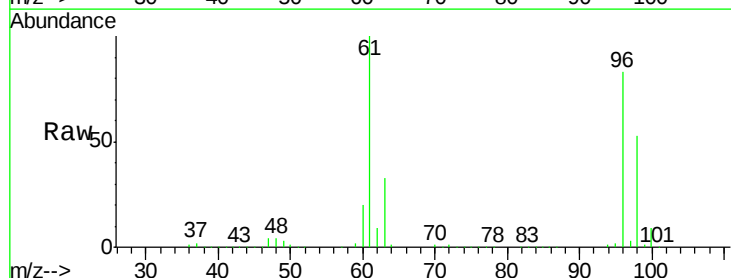
Tgt Ion: 96 Resp: 3833473

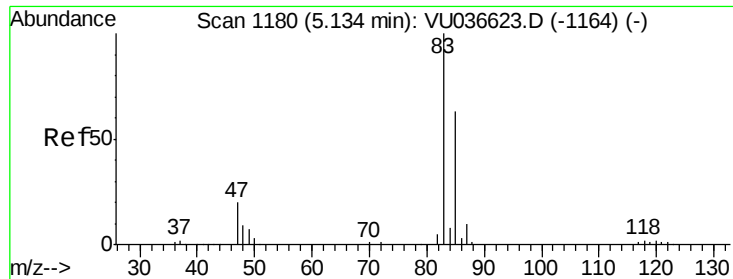
Ion Ratio Lower Upper

96 100

61 120.6 82.2 152.6

68 0.0 0.0 0.0

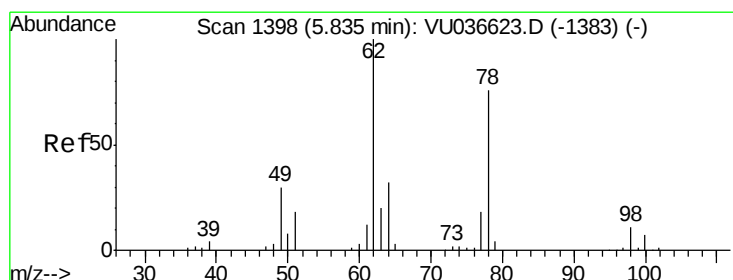
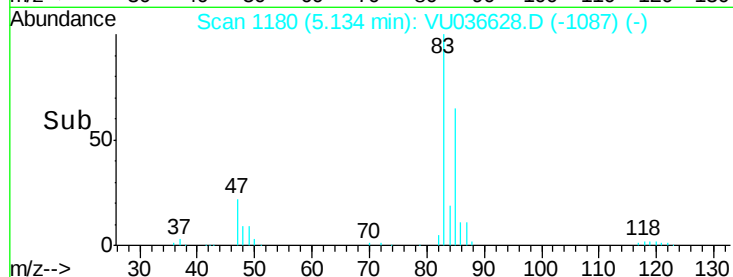
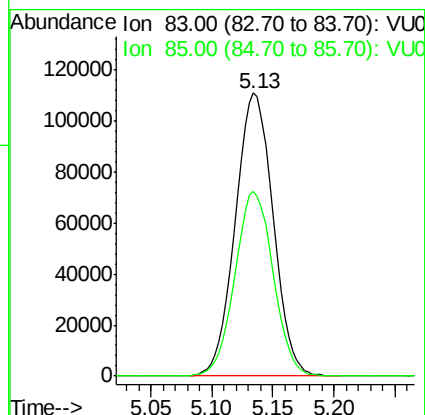
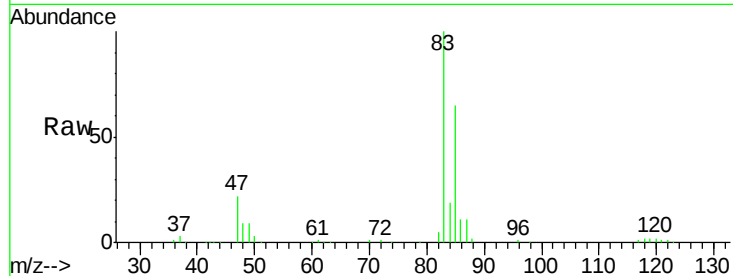




#25
Chloroform
Concen: 65.795 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU036628.D
Acq: 30 Jan 2020 19:12

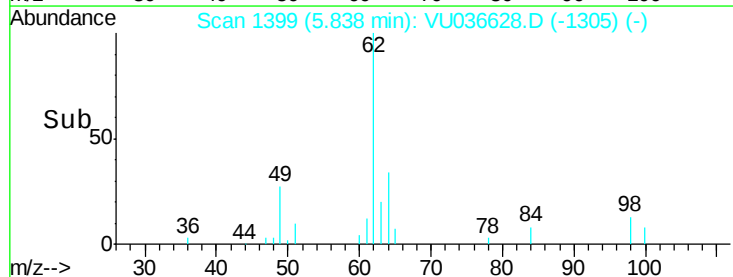
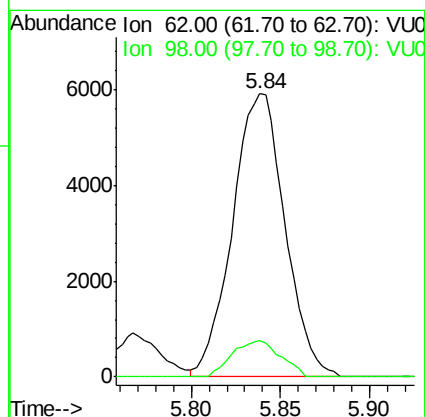
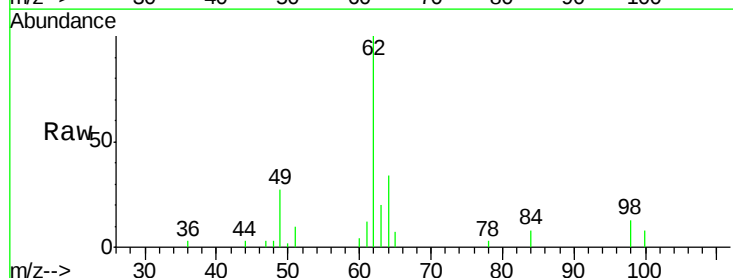
Instrument :
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DBCS4

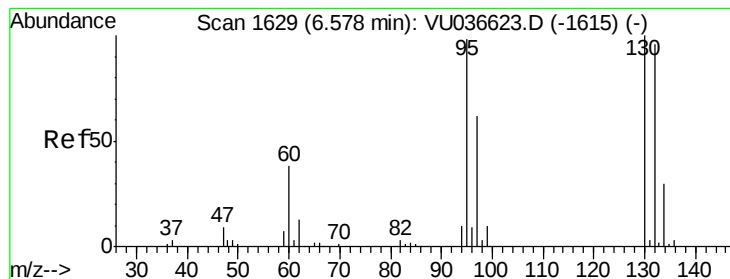
Tot Ion: 83 Resp: 238825
Ion Ratio Lower Upper
83 100
85 65.5 46.3 85.9



#27
1,2-Dichloroethane
Concen: 4.473 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036628.D
Acq: 30 Jan 2020 19:12

Tgt Ion: 62 Resp: 12149
Ion Ratio Lower Upper
62 100
98 12.9 8.4 12.6#





#34

Trichloroethene

Concen: 747.807 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

Instrument :

MSVOA_U

ClientSampleId :

DBCS4

Tot Ion: 95 Resp: 1558744

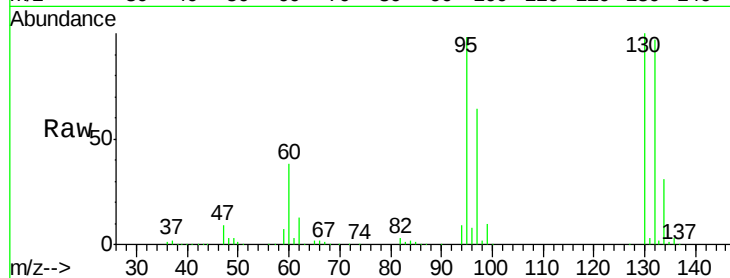
Ion Ratio Lower Upper

95 100

97 64.7 45.5 84.5

132 98.6 70.9 131.7

130 101.8 72.9 135.3

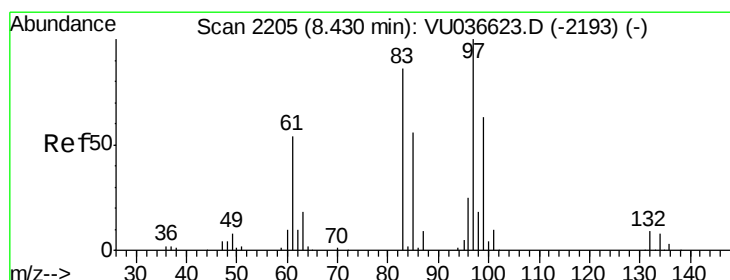
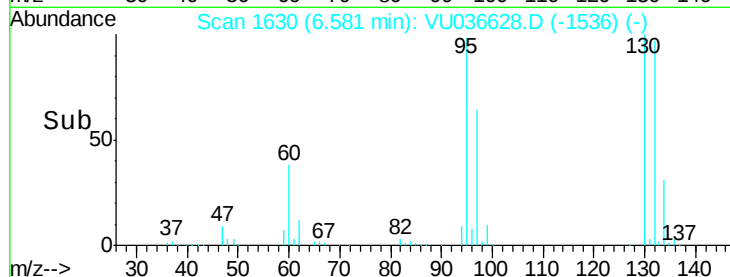
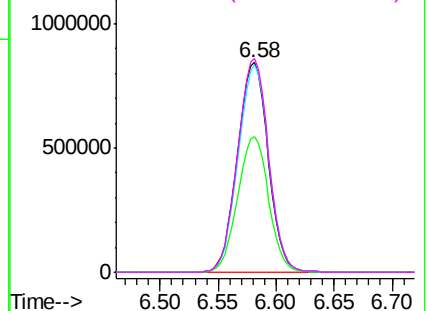


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#45

1,1,2-Trichloroethane

Concen: 12.141 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

Tgt Ion: 97 Resp: 25066

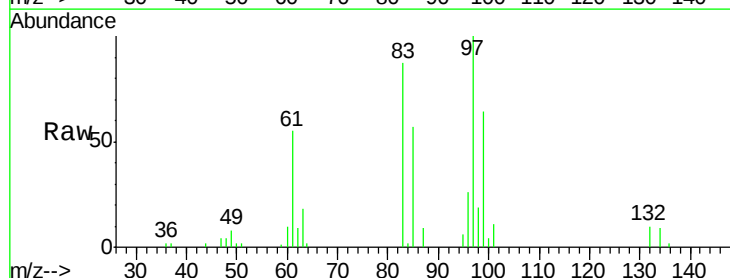
Ion Ratio Lower Upper

97 100

99 63.8 44.1 81.9

83 87.0 61.2 113.6

85 57.3 39.2 72.8

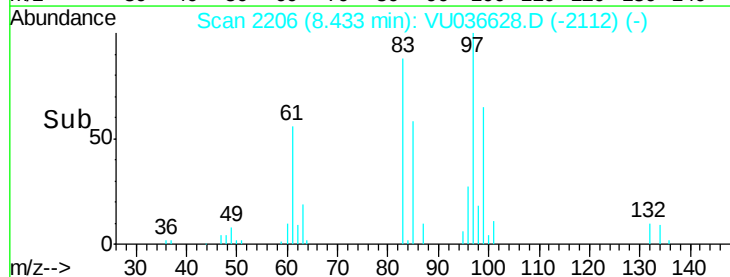
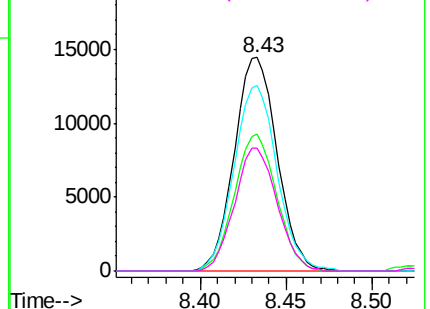


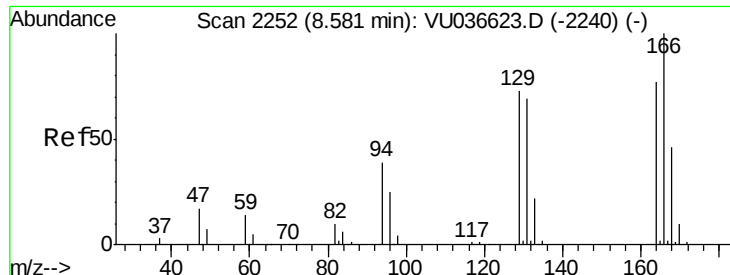
Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0





#46

Tetrachloroethene

Concen: 2969.276 ug/L

RT: 8.59 min Scan# 2255

Delta R.T. 0.01 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

Instrument :

MSVOA_U

ClientSampleId :

DBCS4

Tot Ion:164 Resp: 5027973

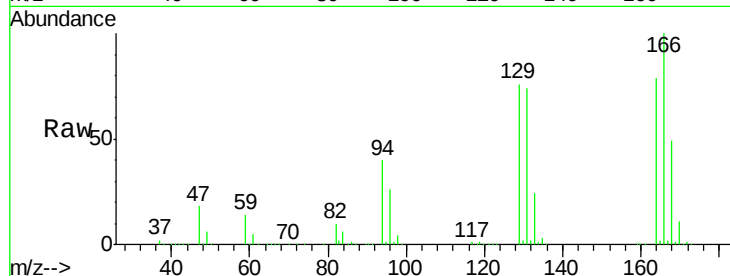
Ion Ratio Lower Upper

164 100

129 96.1 64.2 119.2

131 93.0 61.8 114.8

166 126.3 88.8 165.0

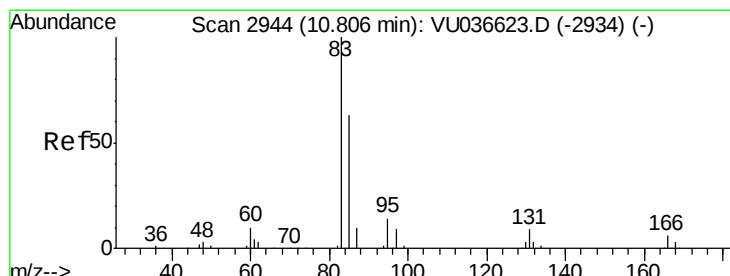
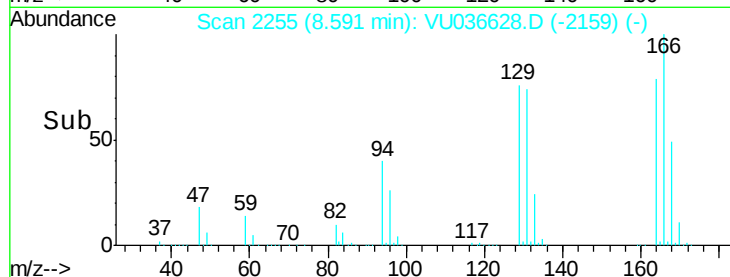
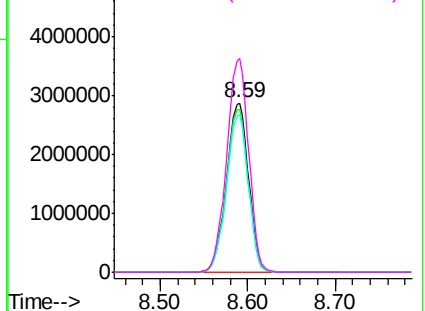


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 27.594 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. -0.00 min

Lab File: VU036628.D

Acq: 30 Jan 2020 19:12

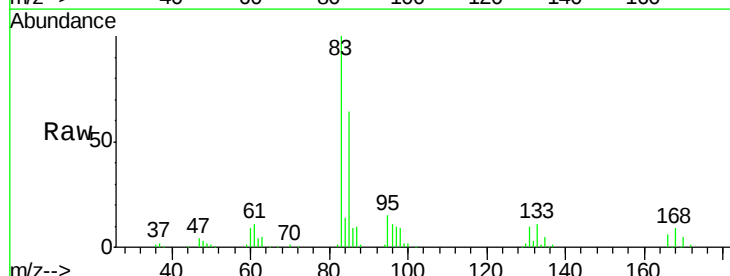
Tgt Ion: 83 Resp: 98213

Ion Ratio Lower Upper

83 100

85 64.1 44.5 82.7

131 10.2 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V

