

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081119\
 Data File : VU033759.D
 Acq On : 11 Aug 2019 17:55
 Operator : JC/SP
 Sample : K4289-13RE
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F2B37RE

Quant Time: Aug 12 07:03:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 12 04:45:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	277495	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	282398	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	127893	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	76401	37.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.80%
7) Chloroethane-d5	1.67	69	70440	34.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	68.80%#
11) 1,1-Dichloroethene-d2	2.26	63	91539	26.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.30%#
21) 2-Butanone-d5	4.15	46	196322	155.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	155.03%#
24) Chloroform-d	4.62	84	158402	52.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.38%
26) 1,2-Dichloroethane-d4	5.29	65	105171	55.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.84%
32) Benzene-d6	5.32	84	278516	41.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.58%
36) 1,2-Dichloropropane-d6	6.31	67	101268	49.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.04%
41) Toluene-d8	7.55	98	219694	35.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	70.10%#
43) trans-1,3-Dichloropropene-	7.83	79	44098	42.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.40%
47) 2-Hexanone-d5	8.29	63	132328	124.91	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	124.91%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	188319	62.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	124.48%#
64) 1,2-Dichlorobenzene-d4	11.84	152	115154	53.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.00%

Target Compounds

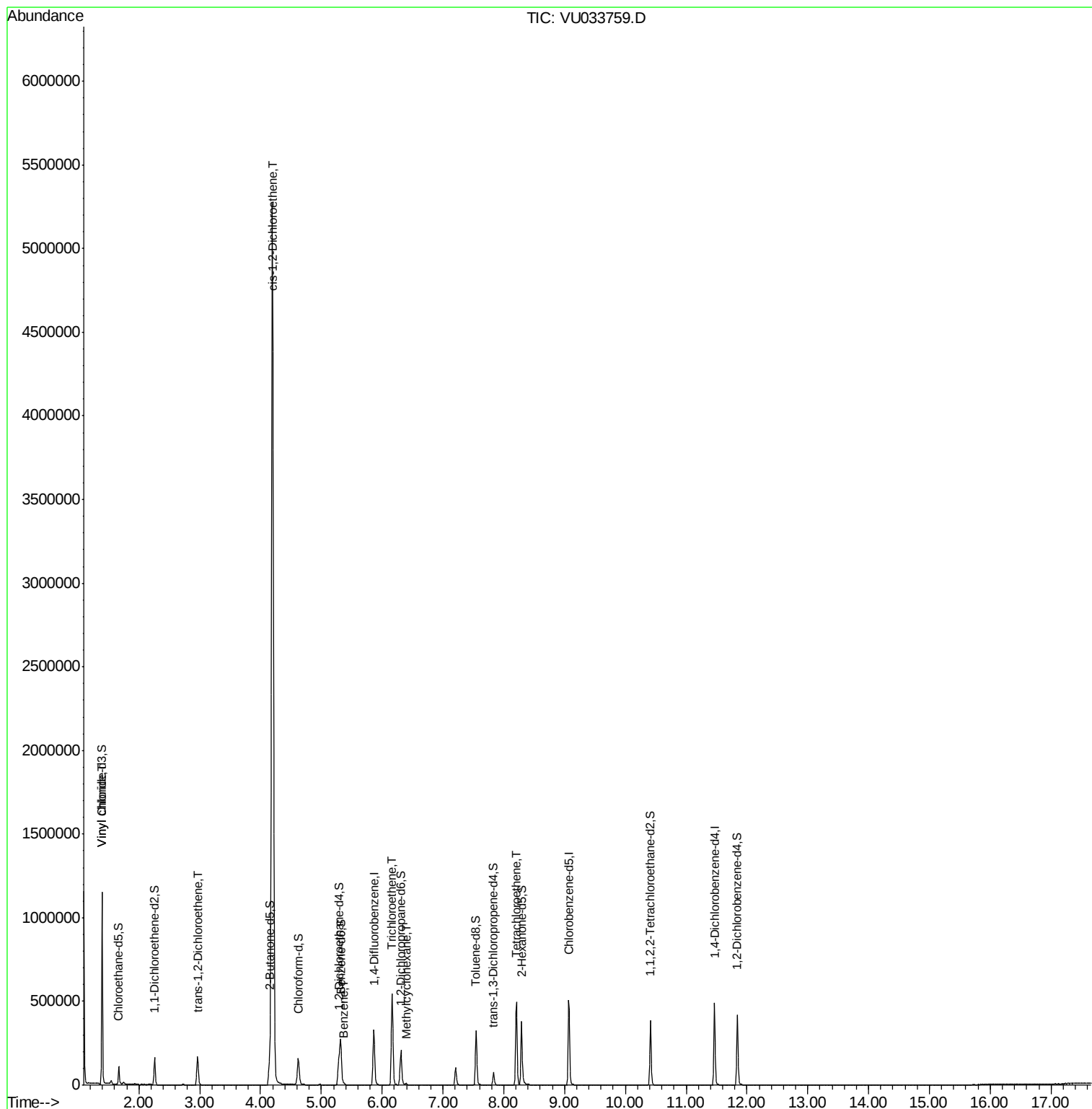
					Ovalue
5) Vinyl chloride	1.40	62	648336	277.545	ug/L 97
17) trans-1,2-Dichloroethene	2.96	96	65613	37.517	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	2895564	1451.528	ug/L 94
33) Benzene	5.37	78	9793	1.246	ug/L 100
34) Trichloroethene	6.16	95	188439	90.874	ug/L 97
35) Methylcyclohexane	6.40	83	4227	1.339	ug/L # 83
46) Tetrachloroethene	8.21	164	109785	64.226	ug/L 97

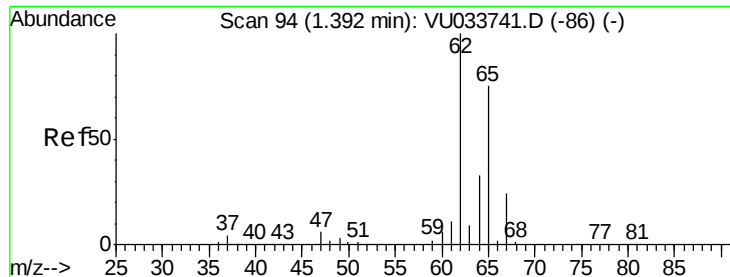
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 277.545 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033759.D

Acq: 11 Aug 2019 17:55

Instrument :

MSVOA_U

ClientSampleId :

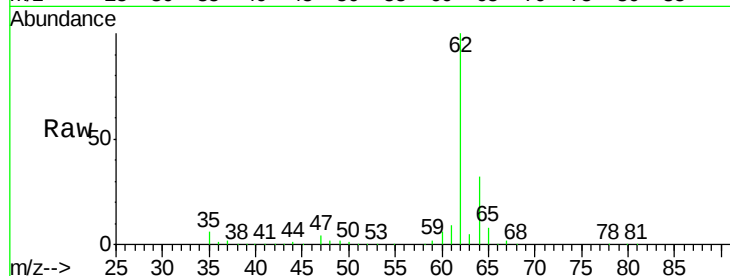
F2B37RE

Tot Ion: 62 Resp: 648336

Ion Ratio Lower Upper

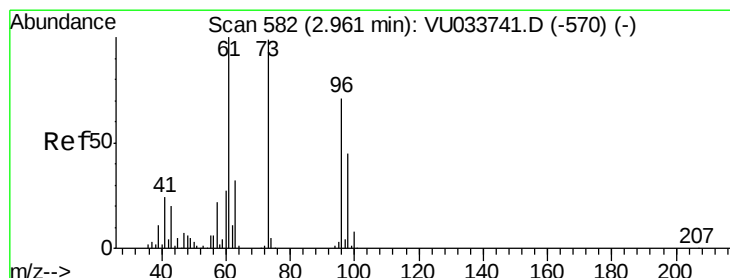
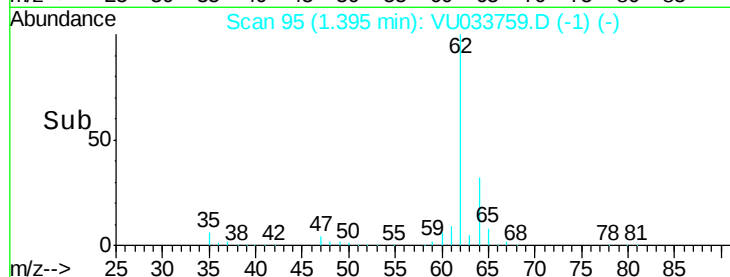
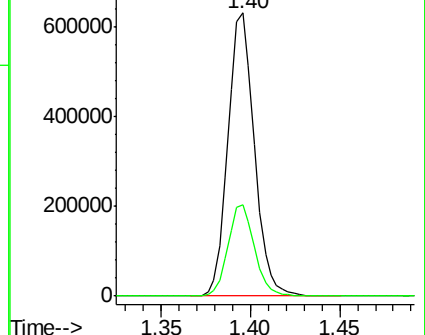
62 100

64 32.3 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU033759.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU033759.D (-1) (-)



#17

trans-1,2-Dichloroethene

Concen: 37.517 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033759.D

Acq: 11 Aug 2019 17:55

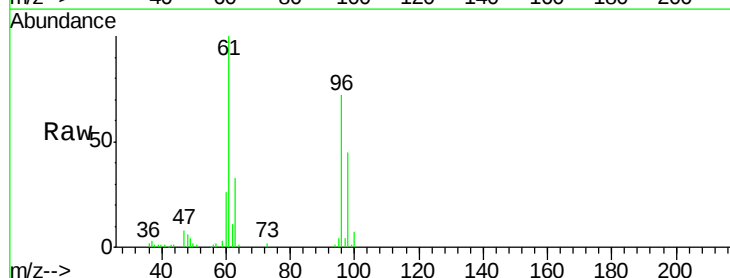
Tgt Ion: 96 Resp: 65613

Ion Ratio Lower Upper

96 100

61 138.6 95.6 177.6

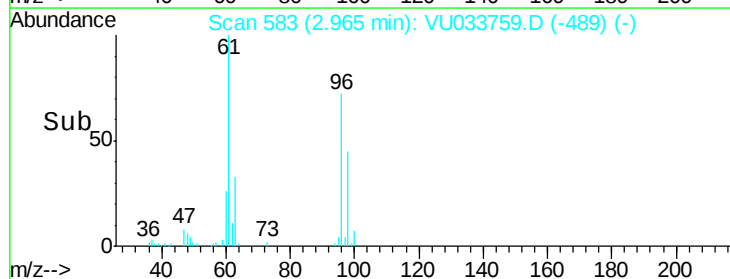
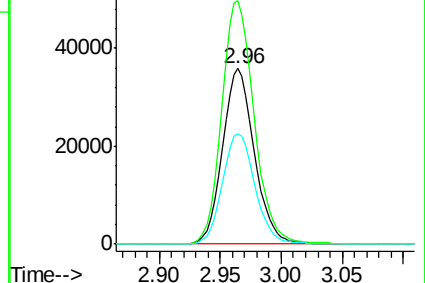
98 63.0 44.6 82.8

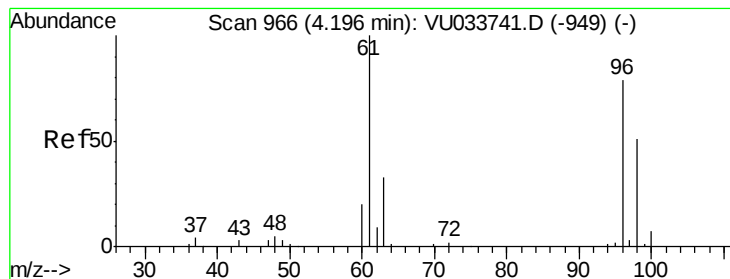


Abundance Ion 96.00 (95.70 to 96.70): VU033759.D (-489) (-)

Ion 61.00 (60.70 to 61.70): VU033759.D (-489) (-)

Ion 98.00 (97.70 to 98.70): VU033759.D (-489) (-)



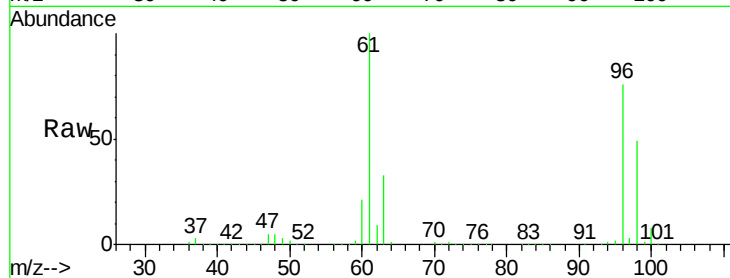


#20

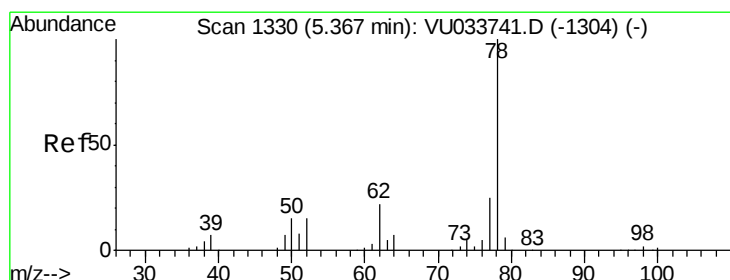
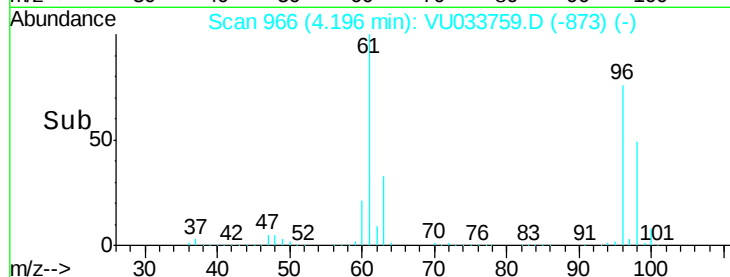
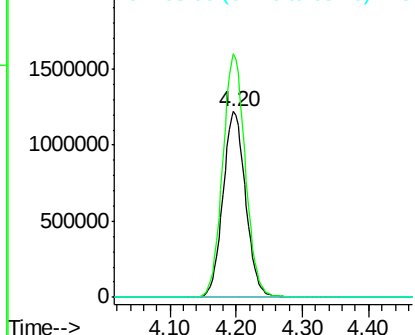
cis-1,2-Dichloroethene
 Concen: 1451.528 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033759.D
 Acq: 11 Aug 2019 17:55

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 ClientSampleId :
 F2B37RE

Tot Ion: 96 Resp: 2895564
 Ion Ratio Lower Upper
 96 100
 61 131.3 87.0 161.6
 68 0.0 0.0 0.0



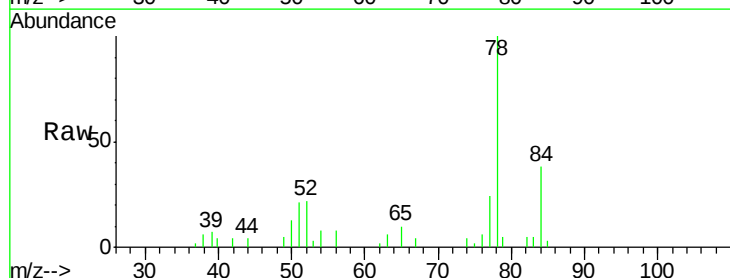
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0



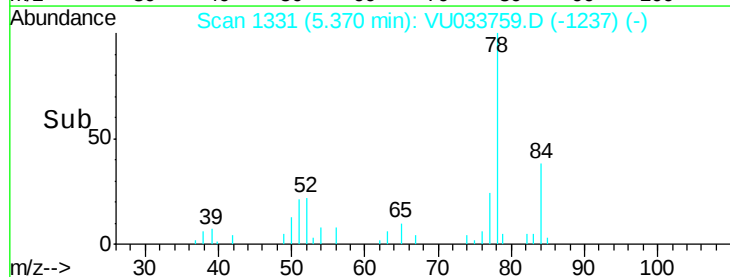
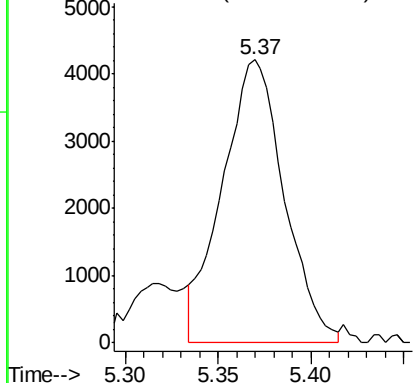
#33

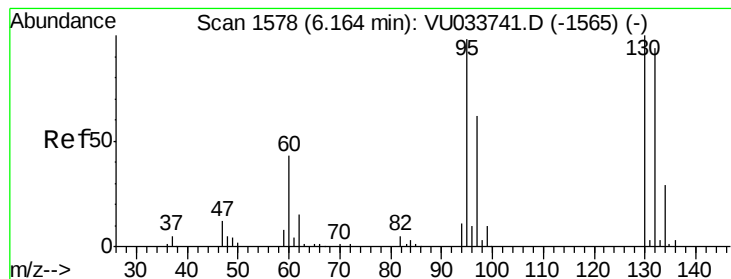
Benzene
 Concen: 1.246 ug/L
 RT: 5.37 min Scan# 1331
 Delta R.T. 0.00 min
 Lab File: VU033759.D
 Acq: 11 Aug 2019 17:55

Tgt Ion: 78 Resp: 9793



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 90.874 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033759.D

Acq: 11 Aug 2019 17:55

Instrument :

MSVOA_U

ClientSampleId :

F2B37RE

Tot Ion: 95 Resp: 188439

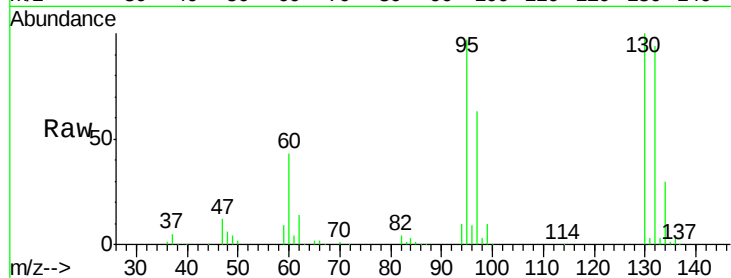
Ion Ratio Lower Upper

95 100

97 65.4 45.6 84.8

132 97.2 72.0 133.8

130 103.6 74.3 138.1



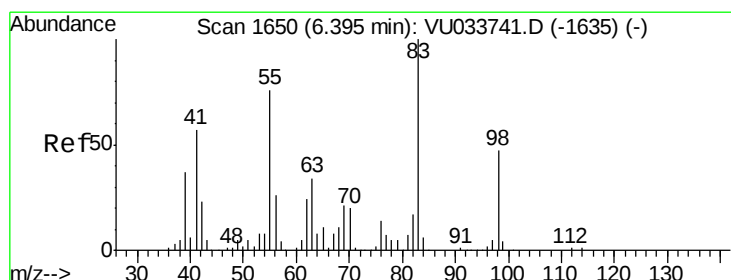
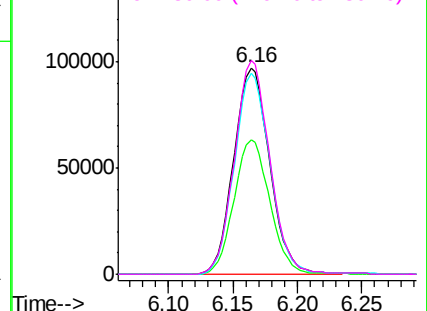
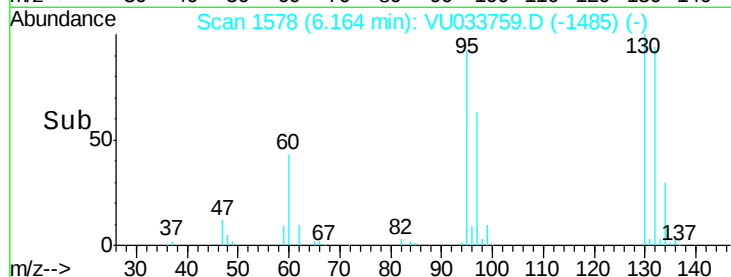
Abundance

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



#35

Methylcyclohexane

Concen: 1.339 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033759.D

Acq: 11 Aug 2019 17:55

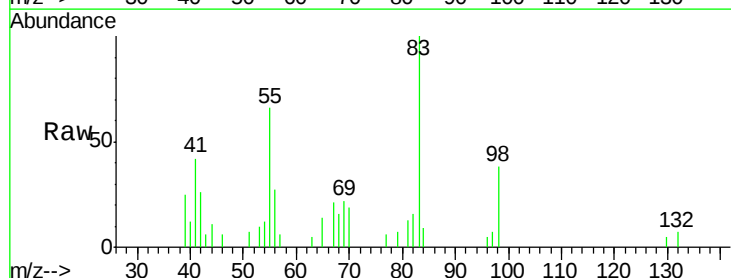
Tgt Ion: 83 Resp: 4227

Ion Ratio Lower Upper

83 100

55 69.1 58.1 87.1

98 22.1 36.8 55.2#

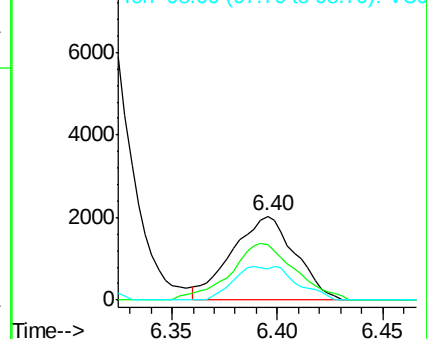
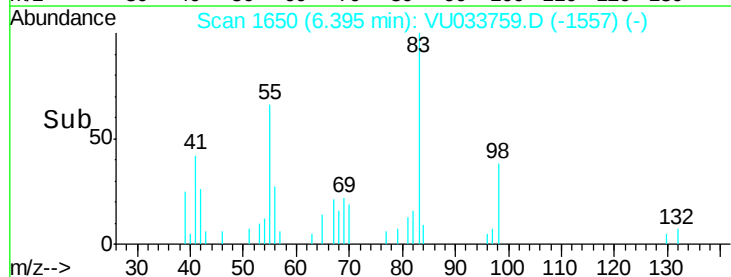


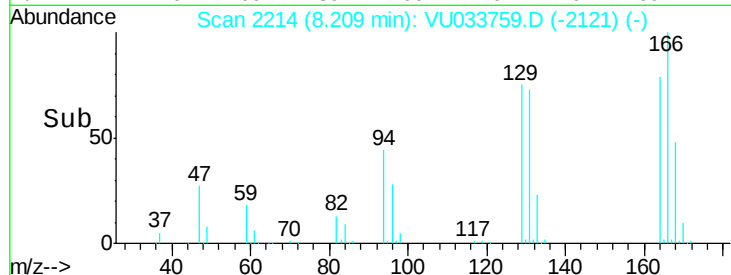
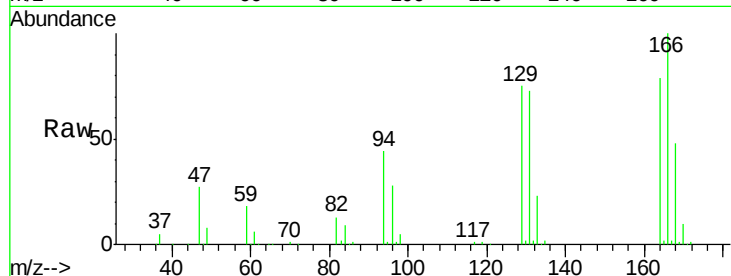
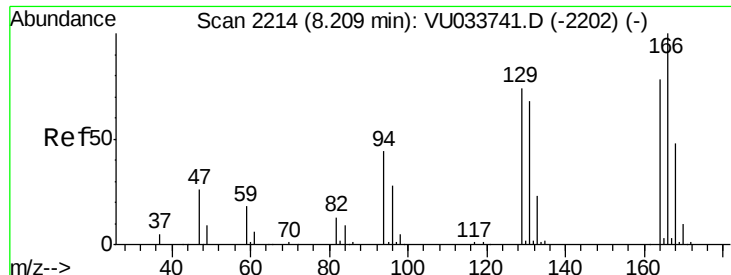
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#46

Tetrachloroethene

Concen: 64.226 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033759.D

Acq: 11 Aug 2019 17:55

Instrument :

MSVOA_U

ClientSampleId :

F2B37RE

Tot Ion:164 Resp: 109785

Ion Ratio Lower Upper

164 100

129 94.9 65.5 121.7

131 92.0 63.6 118.0

166 126.7 92.7 172.3

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

