

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091518\
 Data File : VU026732.D
 Acq On : 13 Sep 2018 17:53
 Operator : MD/SY
 Sample : J4893-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C08K1

Quant Time: Sep 14 01:22:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 14 01:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	187366	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	176219	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	85421	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	62666	44.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.76%
7) Chloroethane-d5	1.68	69	50499	44.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.76%
11) 1,1-Dichloroethene-d2	2.27	63	83877	33.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.14%
21) 2-Butanone-d5	4.18	46	83415	96.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.00%
24) Chloroform-d	4.65	84	98374	42.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.74%
26) 1,2-Dichloroethane-d4	5.31	65	68011	44.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.52%
32) Benzene-d6	5.34	84	207297	45.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.90%
36) 1,2-Dichloropropane-d6	6.33	67	71079	46.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.88%
41) Toluene-d8	7.57	98	187445	43.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	7.85	79	30075	42.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.54%
47) 2-Hexanone-d5	8.31	63	59061	94.58	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.58%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	92065	43.93	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.86%
64) 1,2-Dichlorobenzene-d4	11.48	152	78757	46.25	ug/L	-0.38
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.50%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	795	0.691 ug/L #	18
12) 1,1-Dichloroethene	2.27	96	646	0.585 ug/L #	1
13) Acetone	2.32	43	1548	1.564 ug/L	92
25) Chloroform	4.67	83	1347	0.590 ug/L #	40
35) Methylcyclohexane	6.33	83	15048	7.665 ug/L #	18
37) 1,2-Dichloropropane	6.33	63	7207	5.228 ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	1774	0.870 ug/L #	60
40) 4-Methyl-2-pentanone	7.39	43	1023	0.582 ug/L #	44
44) trans-1,3-Dichloropropene	7.85	75	1289	0.679 ug/L	96
51) Chlorobenzene	9.12	112	703742	209.549 ug/L	98
59) 1,2,3-Trichloropropane	11.42	75	17520	10.741 ug/L #	42
62) 1,3-Dichlorobenzene	11.42	146	60590	24.703 ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	153878	59.222 ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	953505	367.834 ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	2122	5.067 ug/L #	1
67) 1,3,5-Trichlorobenzene	12.89	180	1427	0.733 ug/L	95
68) 1,2,4-trichlorobenzene	13.50	180	302724	179.022 ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Sep 14 01:21:50 2018
Response via : Initial Calibration

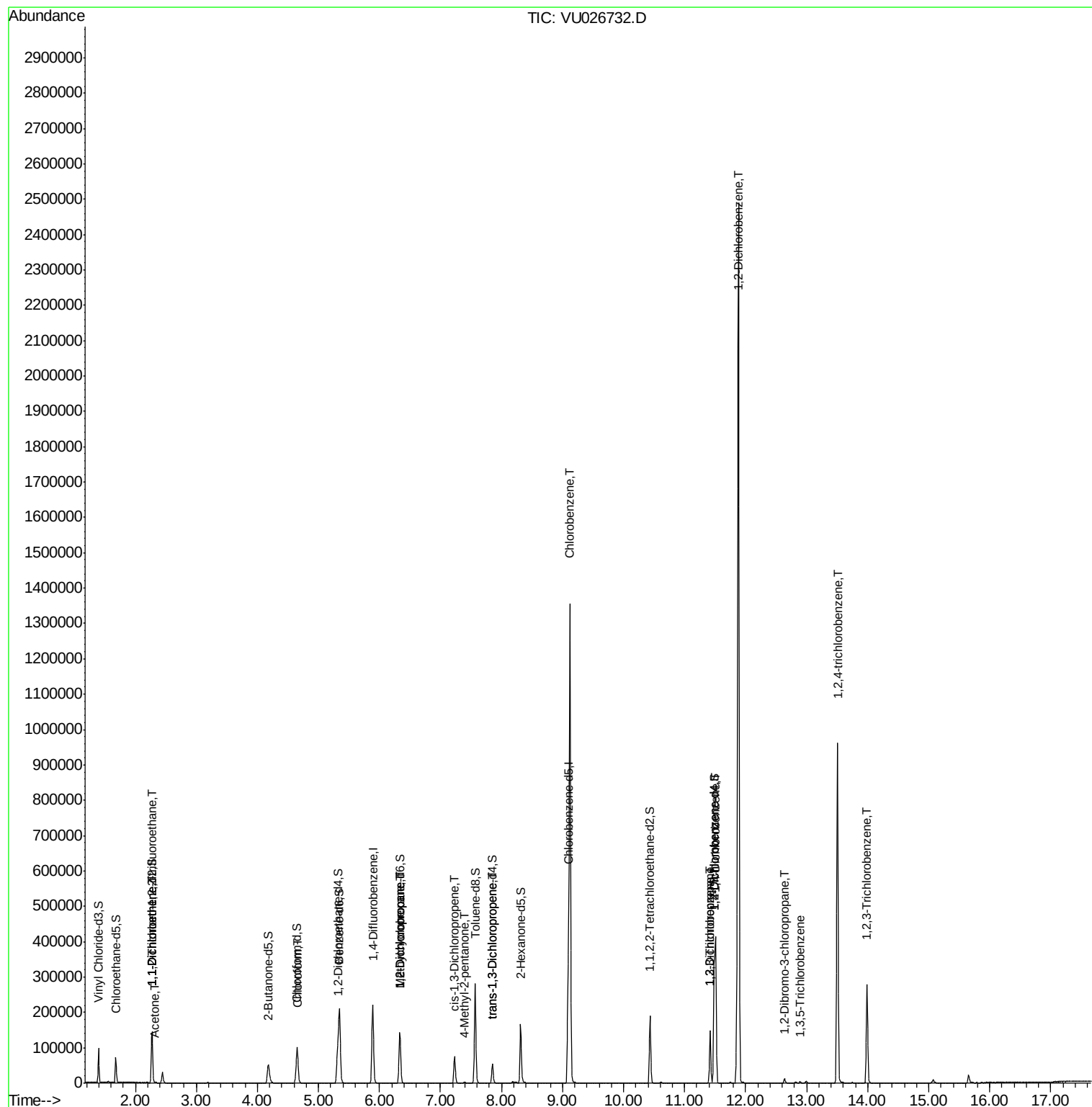
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	13.99	180	90931	49.643	ug/L	99

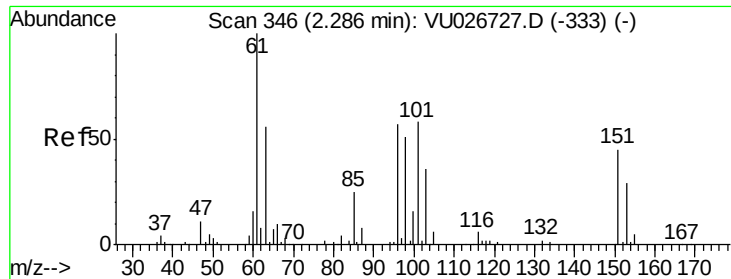
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091018WMA.M
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#10

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

Concen: 0.691 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.02 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

C08K1

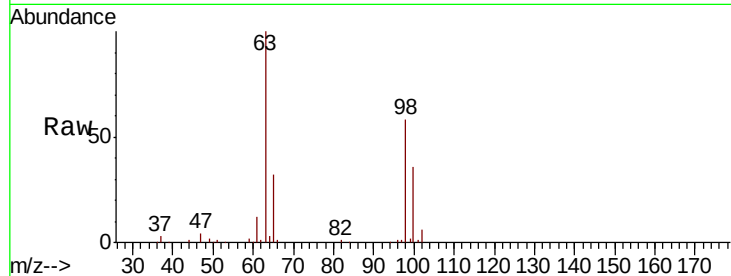
Tgt Ion: 101 Resp: 795

Ion Ratio Lower Upper

101 100

85 0.0 34.1 51.1#

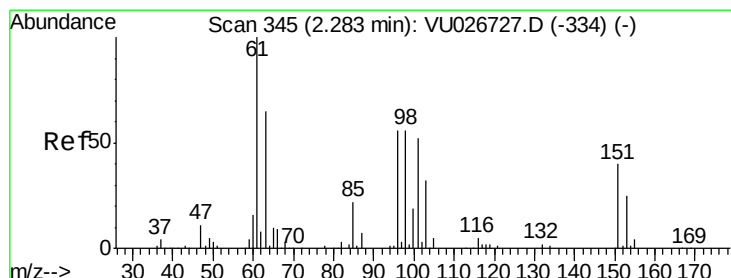
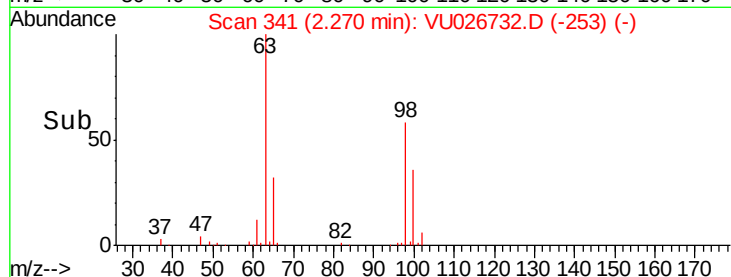
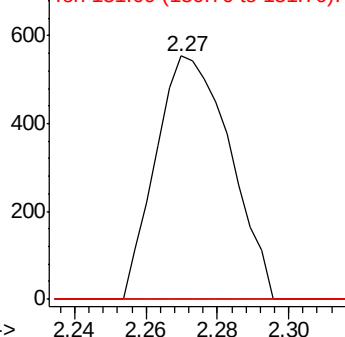
151 0.0 62.6 94.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.585 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

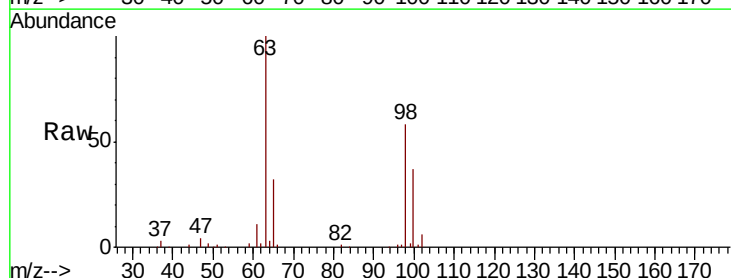
Tgt Ion: 96 Resp: 646

Ion Ratio Lower Upper

96 100

61 1510.7 121.0 224.8#

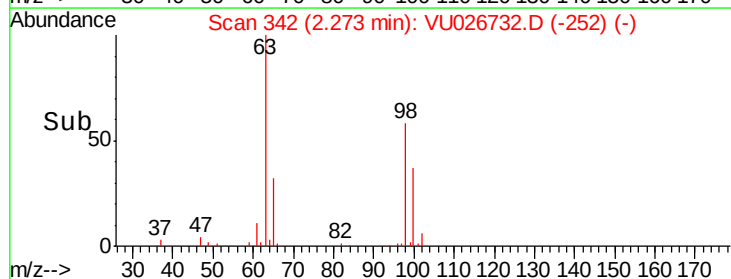
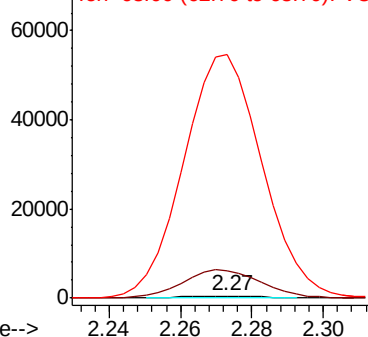
63 13324.9 89.9 166.9#

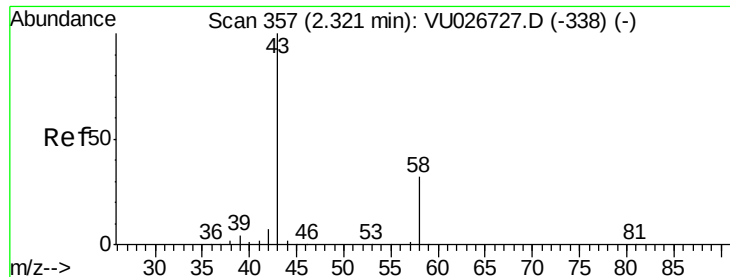


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.564 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

Instrument :

MSVOA_U

ClientSampled :

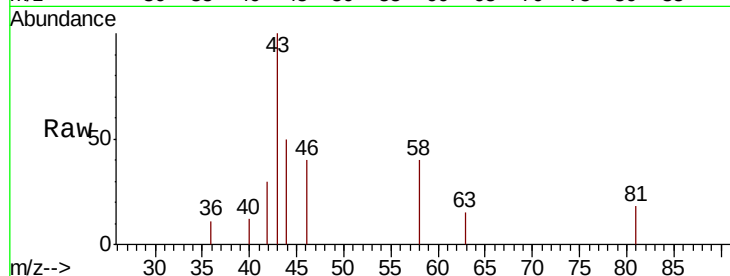
C08K1

Tgt Ion: 43 Resp: 1548

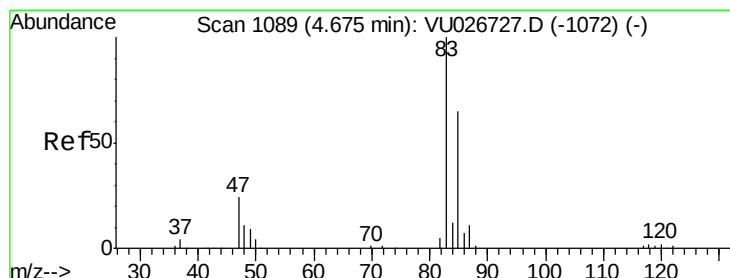
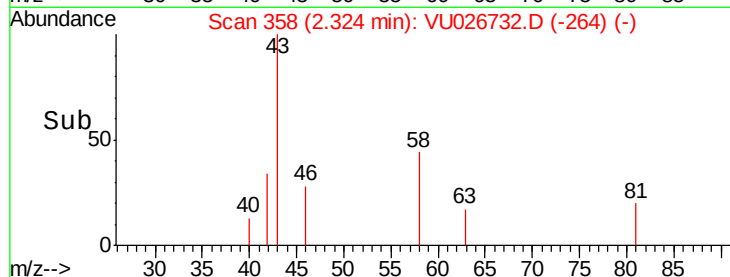
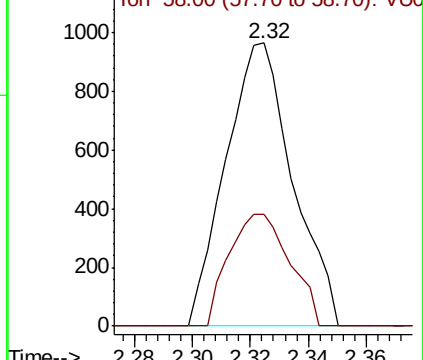
Ion Ratio Lower Upper

43 100

58 35.8 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU026732.D (-264) (-)



#25

Chloroform

Concen: 0.590 ug/L

RT: 4.67 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VU026732.D

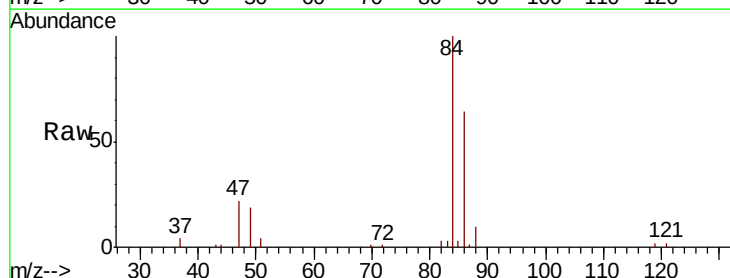
Acq: 13 Sep 2018 17:53

Tgt Ion: 83 Resp: 1347

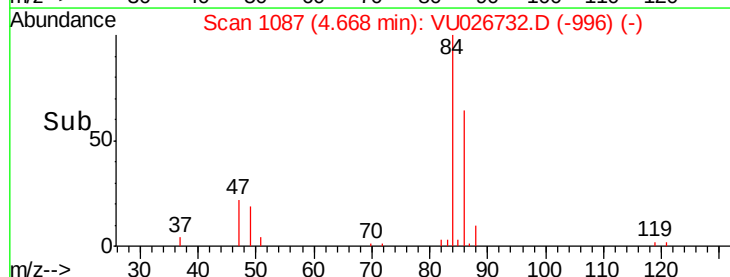
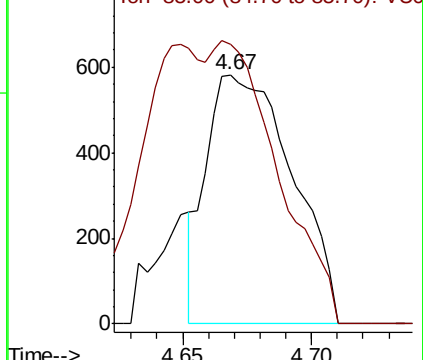
Ion Ratio Lower Upper

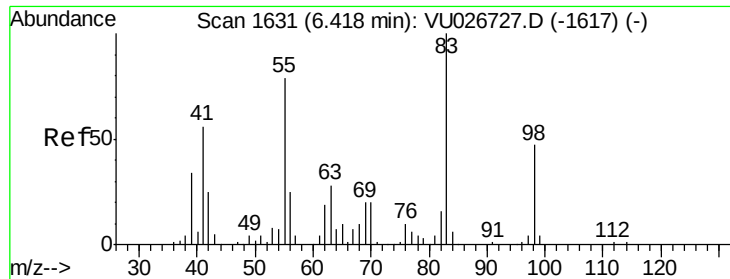
83 100

85 112.2 45.6 84.6#



Abundance Ion 83.00 (82.70 to 83.70): VU026732.D (-996) (-)

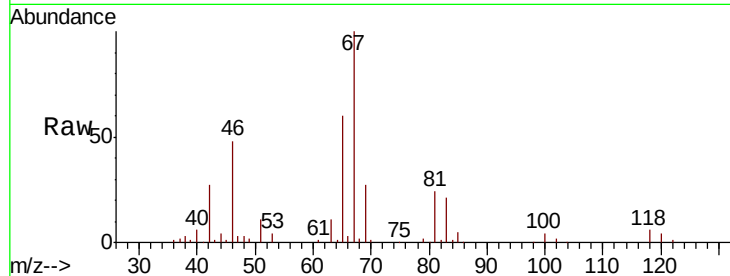




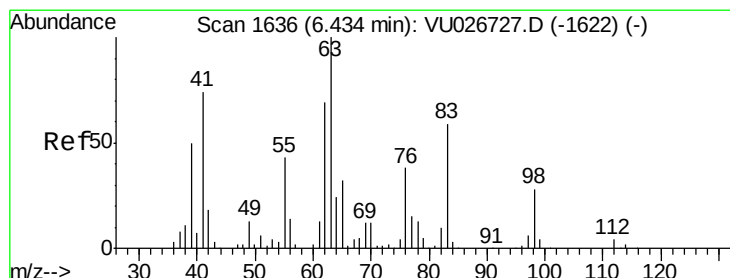
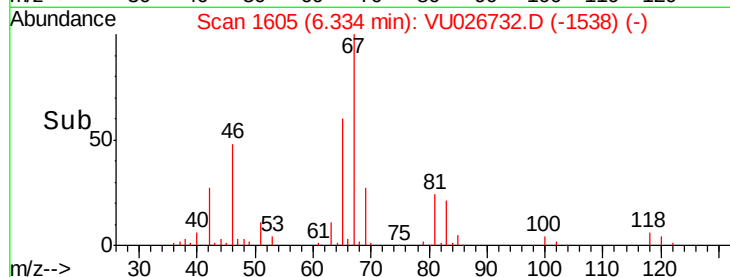
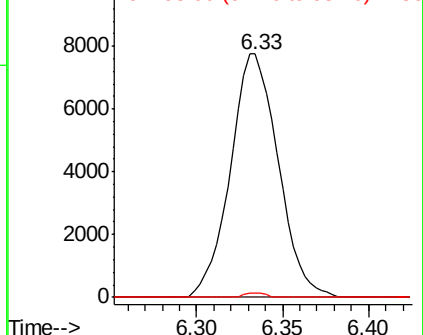
#35
Methylcyclohexane
Concen: 7.665 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU026732.D
Acq: 13 Sep 2018 17:53

Instrument :
MSVOA_U
ClientSampleId :
C08K1

Tgt Ion: 83 Resp: 15048
Ion Ratio Lower Upper
83 100
55 0.0 62.9 94.3#
98 0.8 37.0 55.4#

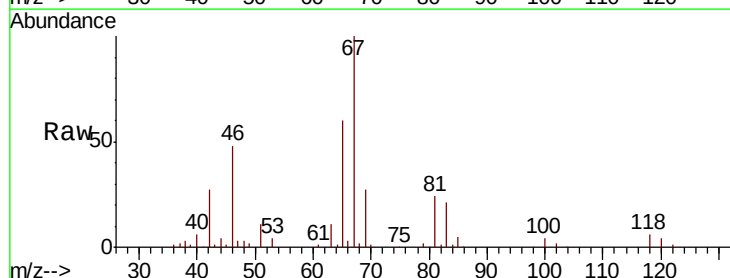


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

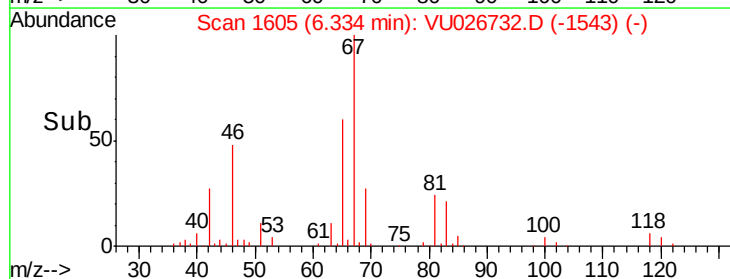
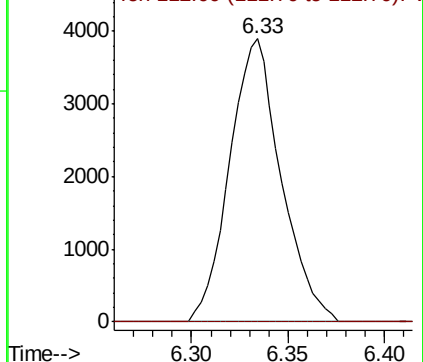


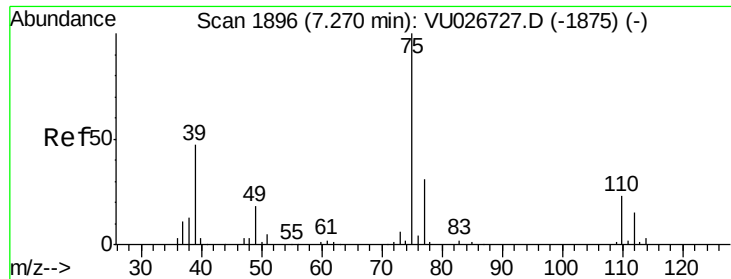
#37
1,2-Dichloropropane
Concen: 5.228 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.10 min
Lab File: VU026732.D
Acq: 13 Sep 2018 17:53

Tgt Ion: 63 Resp: 7207
Ion Ratio Lower Upper
63 100
112 0.0 2.9 4.3#



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V

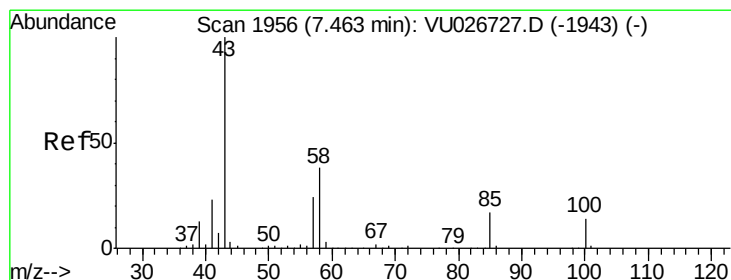
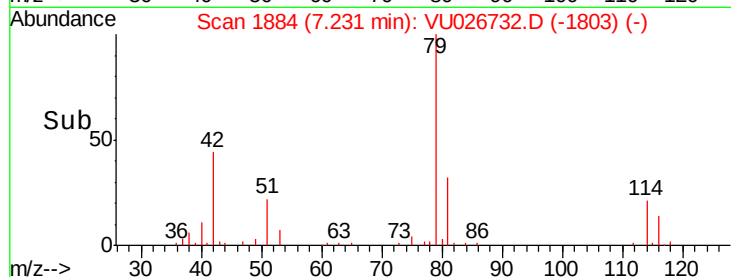
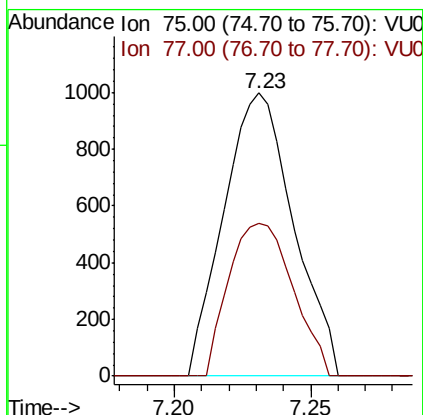
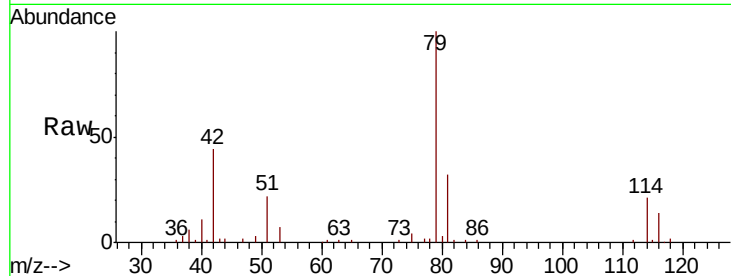




#39
 cis-1,3-Dichloropropene
 Concen: 0.870 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU026732.D
 Acq: 13 Sep 2018 17:53

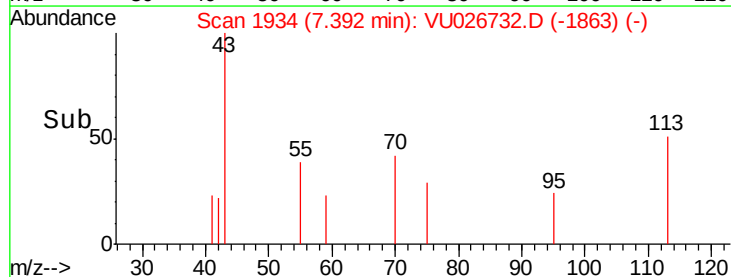
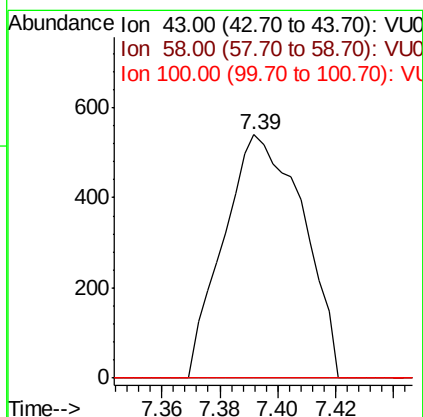
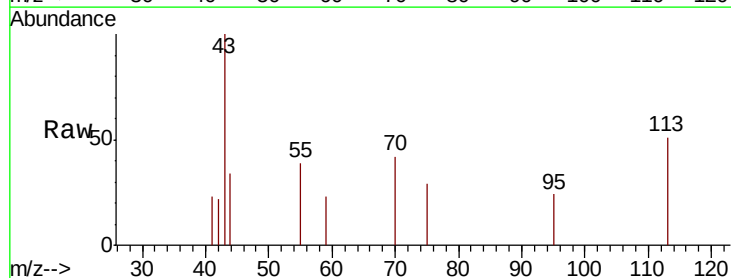
Instrument :
 MSVOA_U
 ClientSampled :
 C08K1

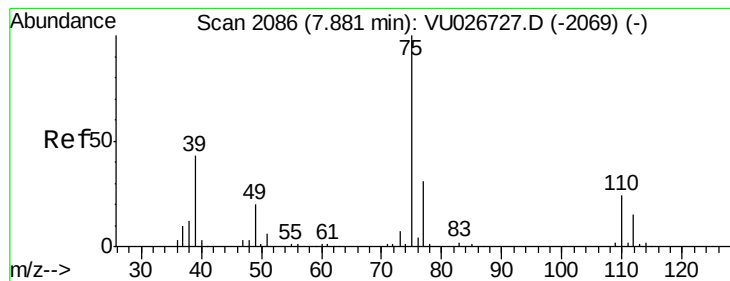
Tgt Ion: 75 Resp: 1774
 Ion Ratio Lower Upper
 75 100
 77 54.2 22.3 41.3#



#40
 4-Methyl-2-pentanone
 Concen: 0.582 ug/L
 RT: 7.39 min Scan# 1934
 Delta R.T. -0.07 min
 Lab File: VU026732.D
 Acq: 13 Sep 2018 17:53

Tgt Ion: 43 Resp: 1023
 Ion Ratio Lower Upper
 43 100
 58 0.0 31.1 46.7#
 100 0.0 11.3 16.9#





#44

trans-1,3-Dichloropropene

Concen: 0.679 ug/L

RT: 7.85 min Scan# 2076

Delta R.T. -0.03 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

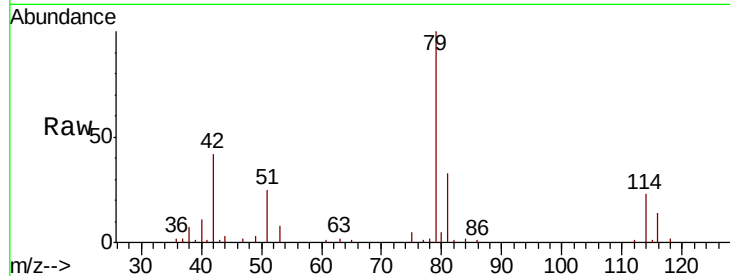
C08K1

Tgt Ion: 75 Resp: 1289

Ion Ratio Lower Upper

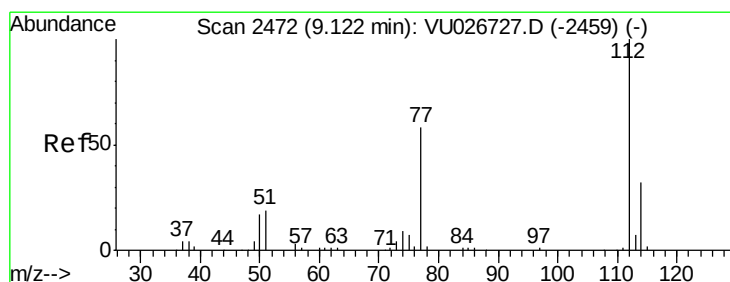
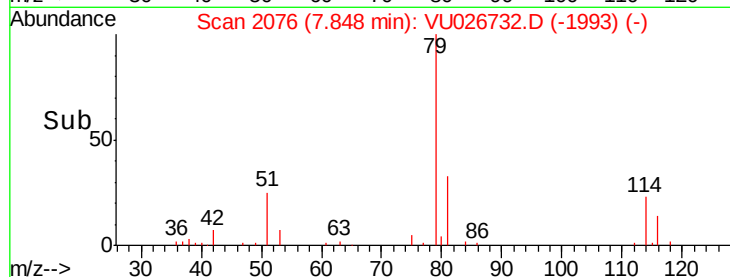
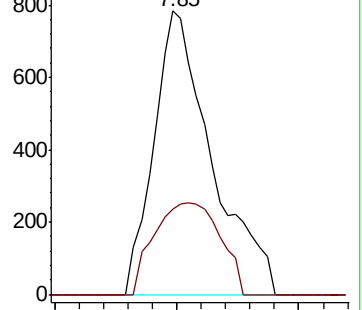
75 100

77 30.0 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#51

Chlorobenzene

Concen: 209.549 ug/L

RT: 9.12 min Scan# 2472

Delta R.T. -0.00 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

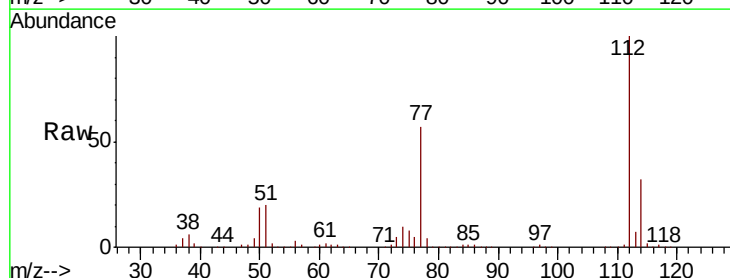
Tgt Ion: 112 Resp: 703742

Ion Ratio Lower Upper

112 100

114 32.0 22.9 42.5

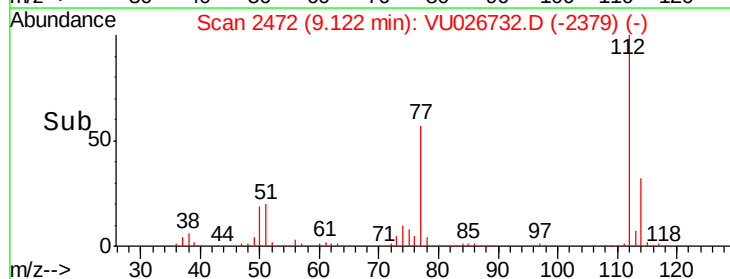
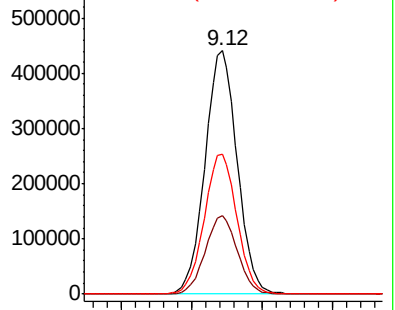
77 57.5 47.2 70.8

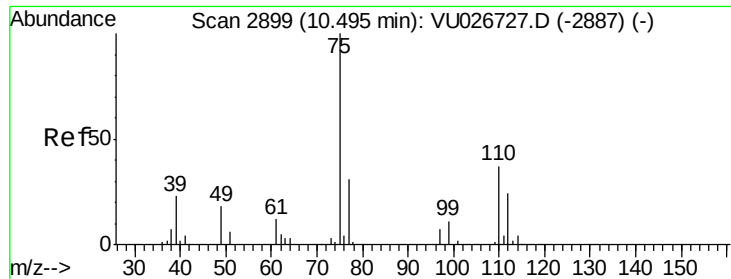


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#59

1,2,3-Trichloropropane

Concen: 10.741 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.92 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

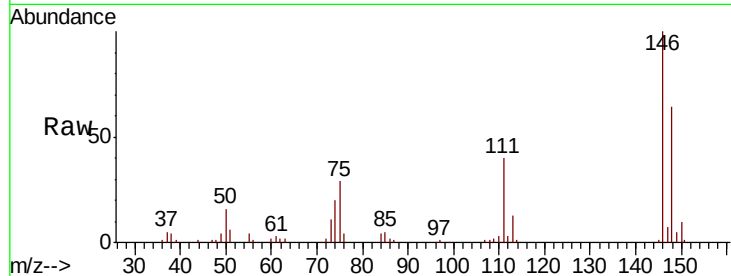
C08K1

Tgt Ion: 75 Resp: 17520

Ion Ratio Lower Upper

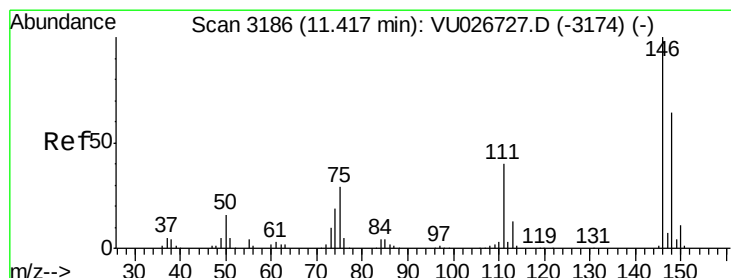
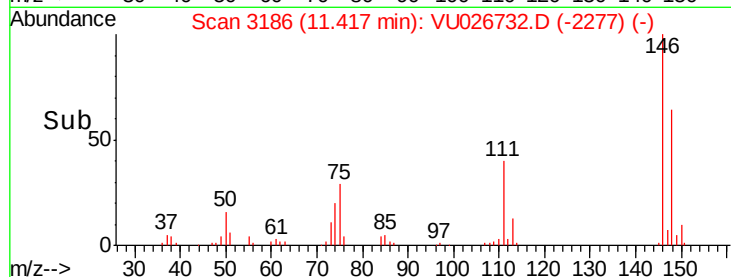
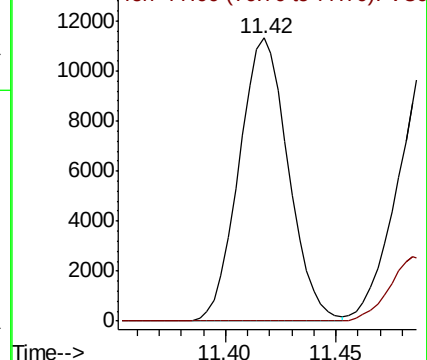
75 100

77 0.0 25.8 38.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#62

1,3-Dichlorobenzene

Concen: 24.703 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

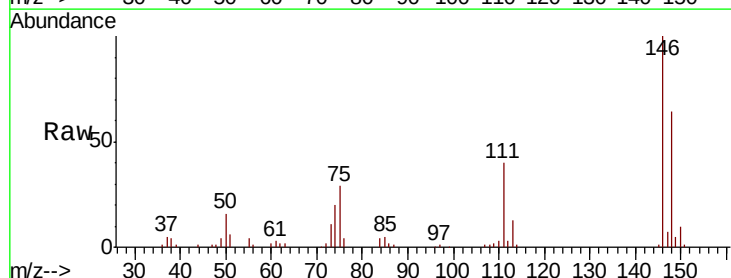
Tgt Ion: 146 Resp: 60590

Ion Ratio Lower Upper

146 100

111 40.4 26.7 49.5

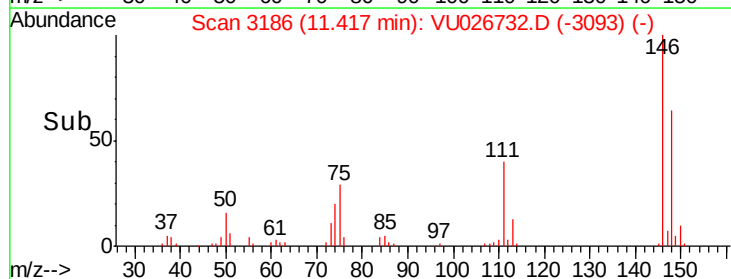
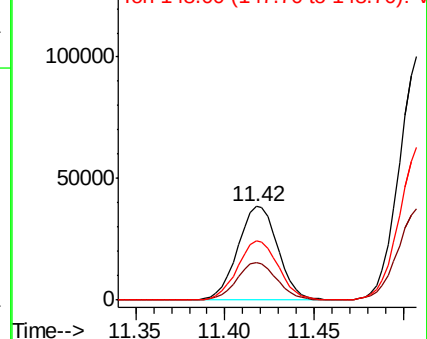
148 64.0 44.2 82.2

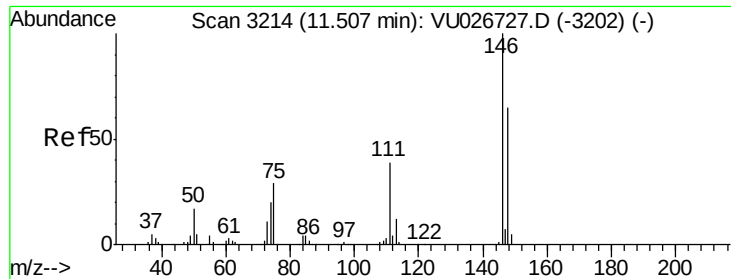


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 59.222 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

C08K1

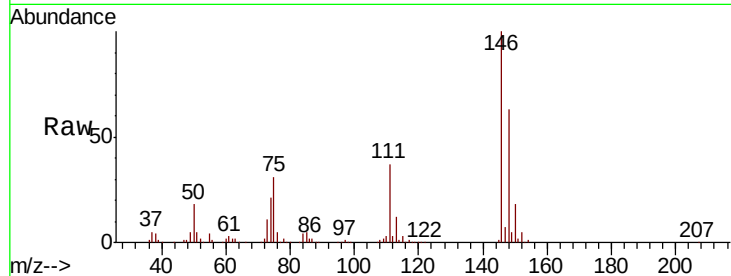
Tgt Ion:146 Resp: 153878

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.3

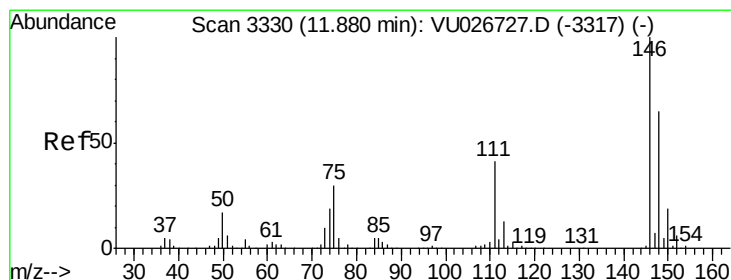
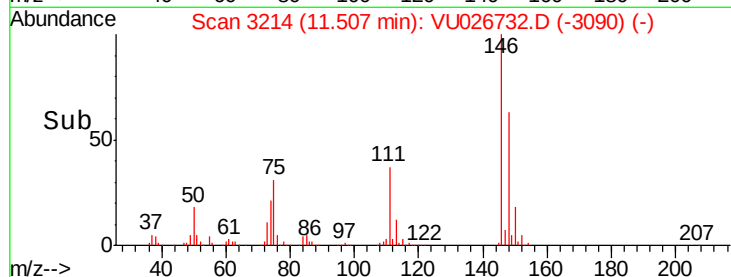
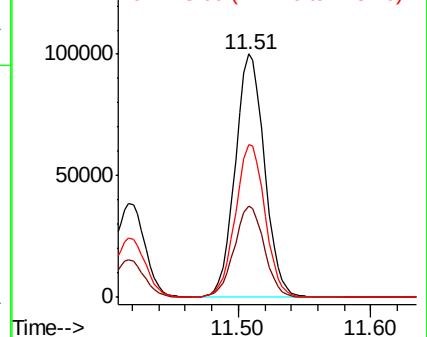
148 62.8 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 367.834 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU026732.D

Acq: 13 Sep 2018 17:53

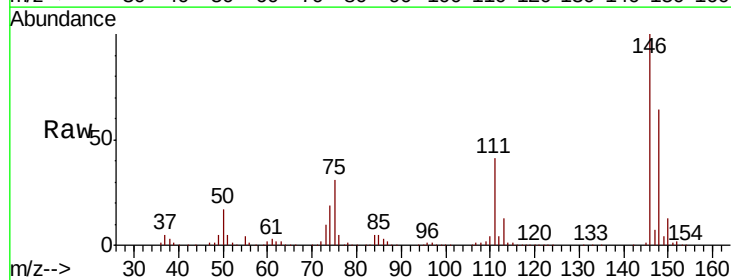
Tgt Ion:146 Resp: 953505

Ion Ratio Lower Upper

146 100

111 40.7 32.8 49.2

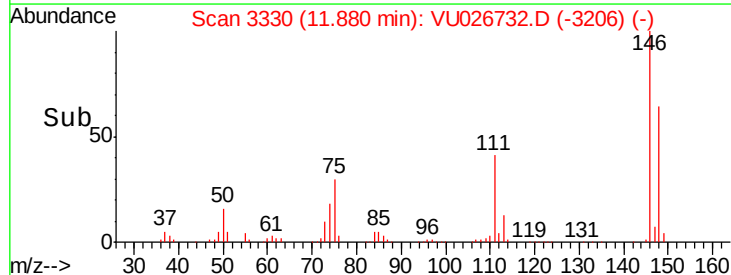
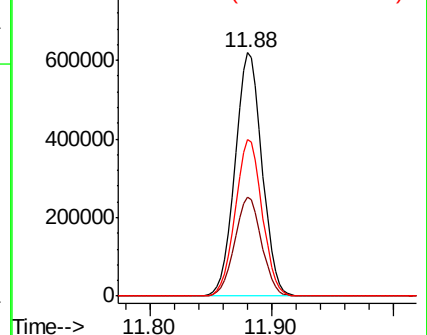
148 64.1 52.2 78.4

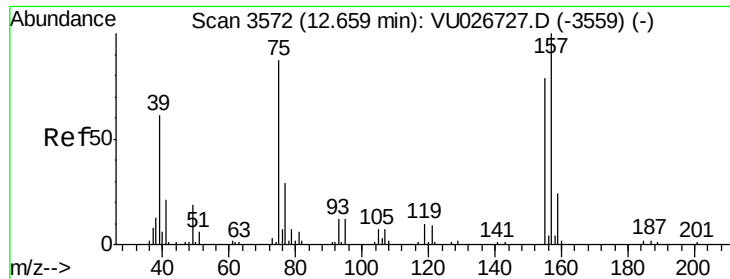


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

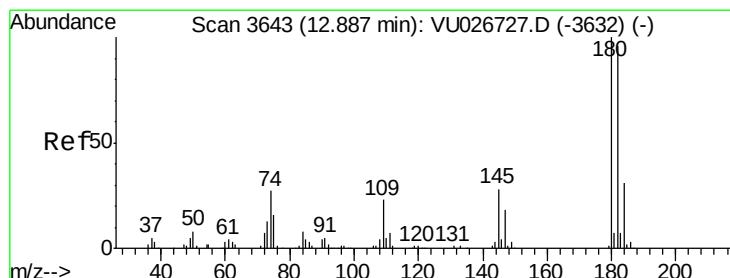
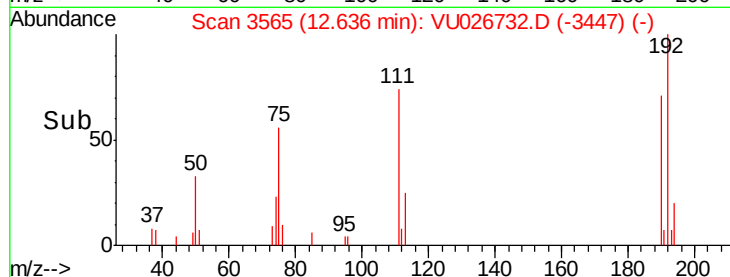
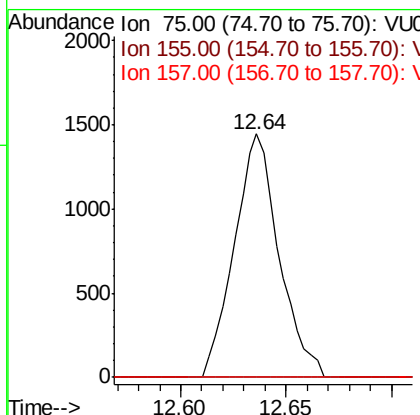
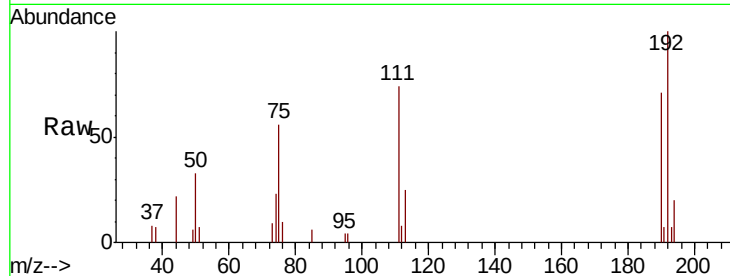




#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.067 ug/L
 RT: 12.64 min Scan# 3565
 Delta R.T. -0.02 min
 Lab File: VU026732.D
 Acq: 13 Sep 2018 17:53

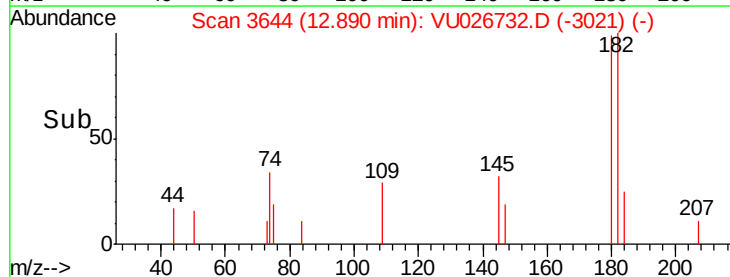
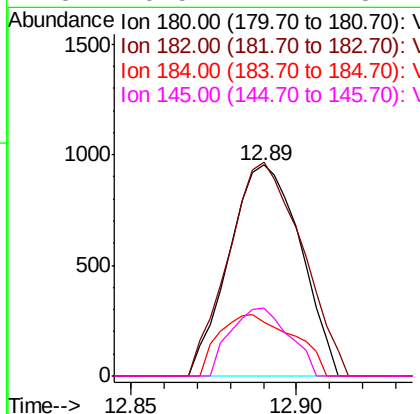
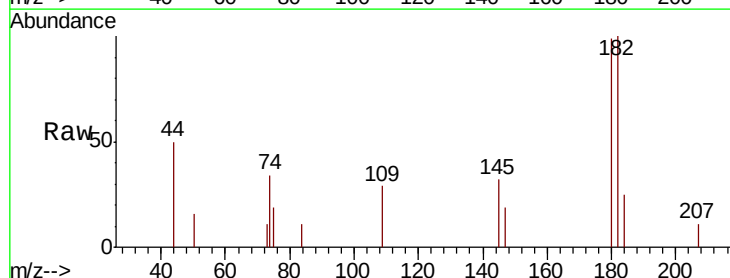
Instrument :
 MSVOA_U
 ClientSampleId :
 C08K1

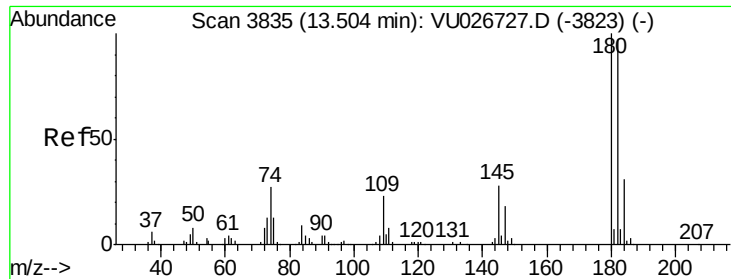
Tgt Ion: 75 Resp: 2122
 Ion Ratio Lower Upper
 75 100
 155 0.0 69.3 103.9#
 157 0.0 93.4 140.0#



#67
 1,3,5-Trichlorobenzene
 Concen: 0.733 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU026732.D
 Acq: 13 Sep 2018 17:53

Tgt Ion: 180 Resp: 1427
 Ion Ratio Lower Upper
 180 100
 182 104.2 76.8 115.2
 184 30.4 24.2 36.2
 145 26.5 21.4 32.2

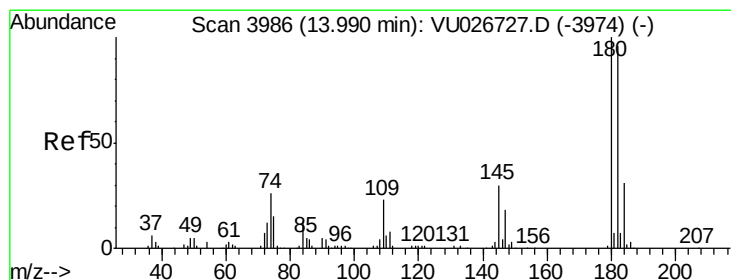
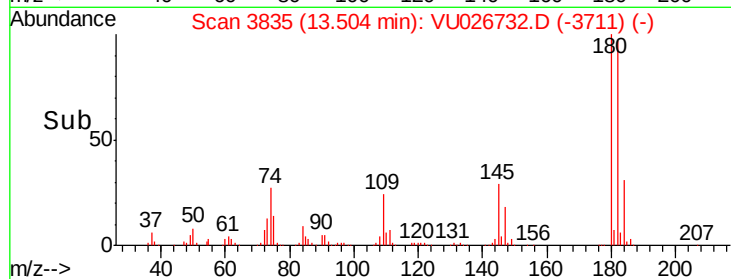
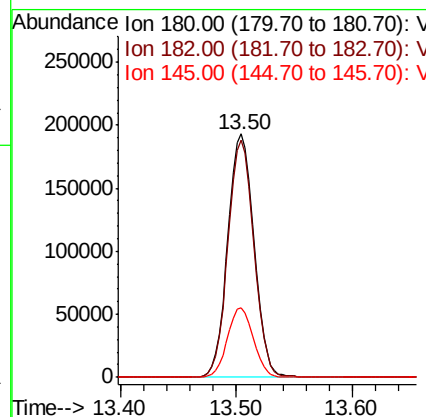
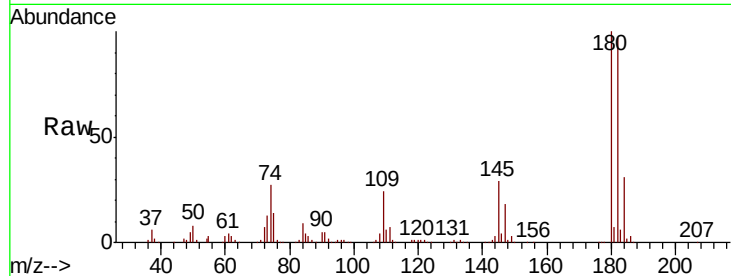




#68
 1,2,4-trichlorobenzene
 Concen: 179.022 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU026732.D
 Acq: 13 Sep 2018 17:53

Instrument :
 MSVOA_U
 ClientSampleId :
 C08K1

Tgt Ion:180 Resp: 302724
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.0 114.0
 145 28.3 23.4 35.0



#70
 1,2,3-Trichlorobenzene
 Concen: 49.643 ug/L
 RT: 13.99 min Scan# 3985
 Delta R.T. -0.00 min
 Lab File: VU026732.D
 Acq: 13 Sep 2018 17:53

Tgt Ion:180 Resp: 90931
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.7 115.1
 145 30.2 23.0 34.6

