

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091518\
 Data File : VU026739.D
 Acq On : 13 Sep 2018 20:36
 Operator : MD/SY
 Sample : J4893-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C08L8

Quant Time: Sep 14 01:23:21 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	190605	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	174328	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	76932	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	62116	43.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.46%
7) Chloroethane-d5	1.68	69	50293	43.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.88%
11) 1,1-Dichloroethene-d2	2.27	63	86321	33.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.92%
21) 2-Butanone-d5	4.18	46	85160	96.34	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.34%
24) Chloroform-d	4.65	84	98287	41.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.24%
26) 1,2-Dichloroethane-d4	5.31	65	67971	43.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.94%
32) Benzene-d6	5.34	84	207206	45.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.84%
36) 1,2-Dichloropropane-d6	6.33	67	70619	46.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.28%
41) Toluene-d8	7.57	98	185546	43.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.66%
43) trans-1,3-Dichloropropene-	7.85	79	30361	43.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.26%
47) 2-Hexanone-d5	8.31	63	60185	97.43	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.43%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	92166	44.46	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.92%
64) 1,2-Dichlorobenzene-d4	11.86	152	69934	45.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.20%

Target Compounds

Target Compounds	R.T.	Qvalue	Response	Conc	Units	Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	765	0.654	ug/L #	18
12) 1,1-Dichloroethene	2.27	96	721	0.642	ug/L #	1
13) Acetone	2.32	43	1360	1.351	ug/L	85
18) Methyl tert-butyl Ether	3.00	73	4179	1.139	ug/L	99
25) Chloroform	4.68	83	14049	6.052	ug/L	98
33) Benzene	5.40	78	11683	2.393	ug/L	100
37) 1,2-Dichloropropane	6.33	63	7170	5.257	ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	1744	0.864	ug/L #	61
40) 4-Methyl-2-pentanone	7.40	43	2464	1.416	ug/L #	44
44) trans-1,3-Dichloropropene	7.85	75	1326	0.706	ug/L #	77
48) 2-Hexanone	8.31	43	6911	4.705	ug/L #	68
51) Chlorobenzene	9.12	112	48549	14.613	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	3614	1.636	ug/L	91
63) 1,4-Dichlorobenzene	11.51	146	52132	22.278	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	32848	14.070	ug/L	99
67) 1,3,5-Trichlorobenzene	13.51	180	16015	9.140	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	16015	10.516	ug/L	98

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Quant Time: Sep 14 01:23:21 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

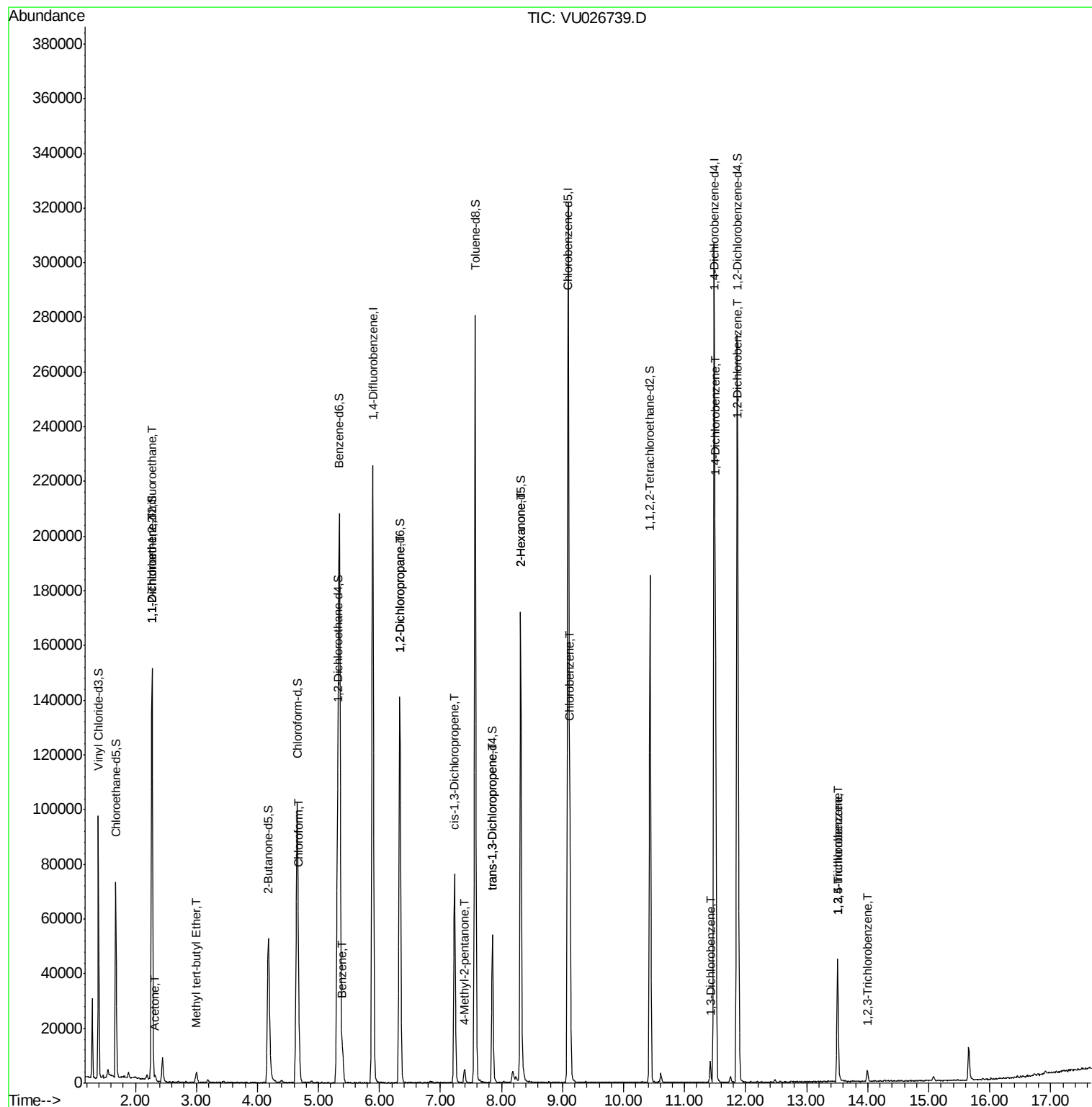
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	13.99	180	1943	1.178	ug/L	94

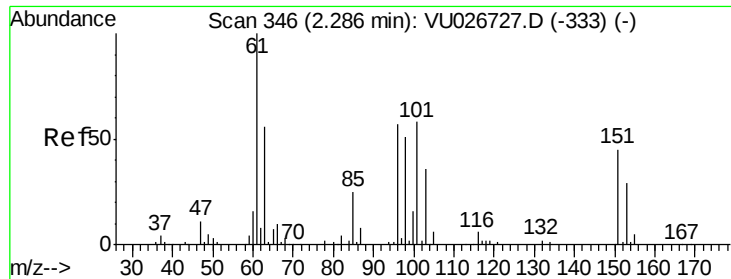
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091018WMA.M
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QLast Update : Fri Sep 14 01:21:50 2018
Response via : Initial Calibration





#10

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

Concen: 0.654 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.02 min

Lab File: VU026739.D

Acq: 13 Sep 2018 20:36

Instrument :

MSVOA_U

ClientSampleId :

C08L8

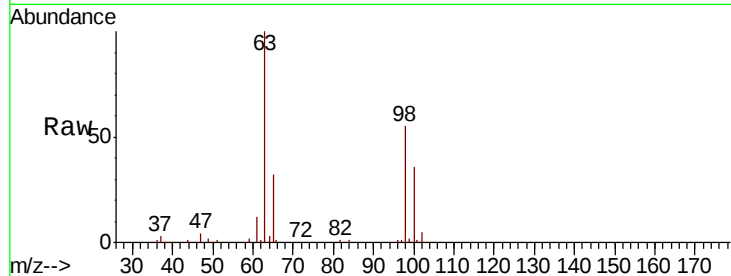
Tgt Ion:101 Resp: 765

Ion Ratio Lower Upper

101 100

85 0.0 34.1 51.1#

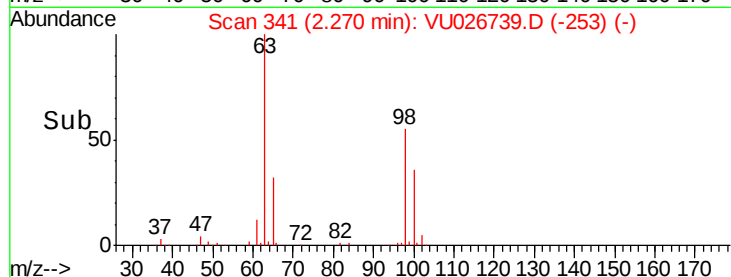
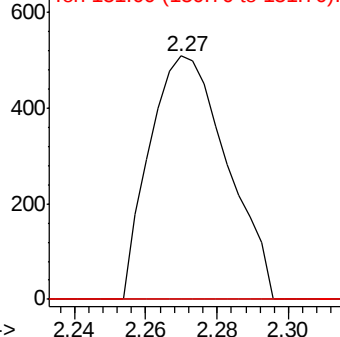
151 0.0 62.6 94.0#



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: 0.642 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU026739.D

Acq: 13 Sep 2018 20:36

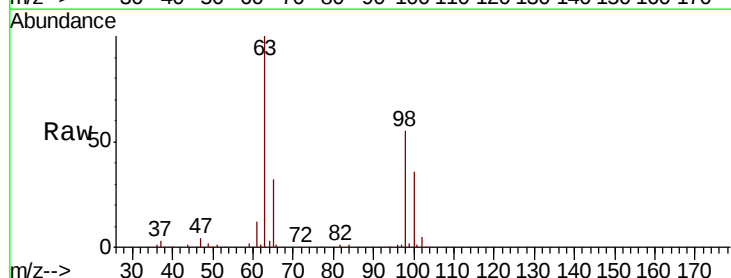
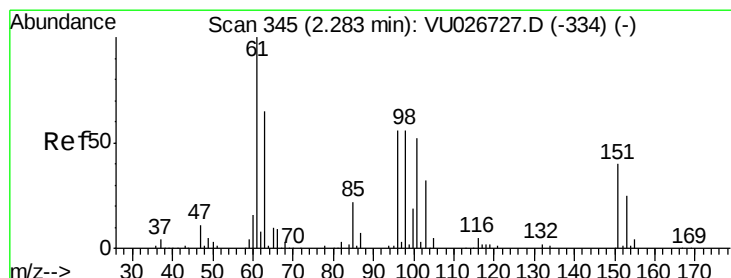
Tgt Ion: 96 Resp: 721

Ion Ratio Lower Upper

96 100

61 1231.3 121.0 224.8#

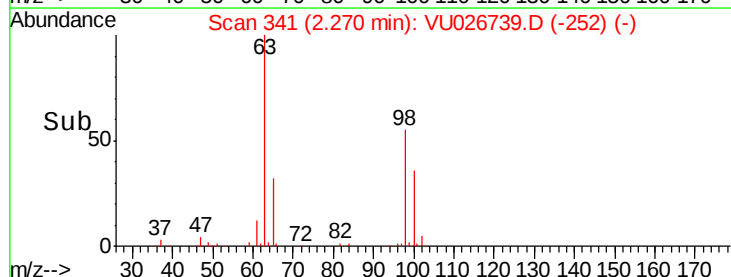
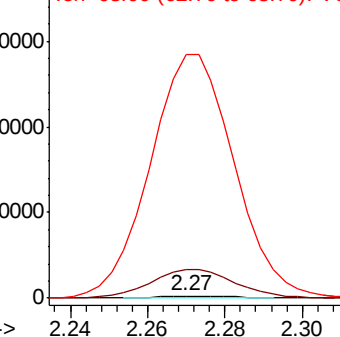
63 10472.2 89.9 166.9#

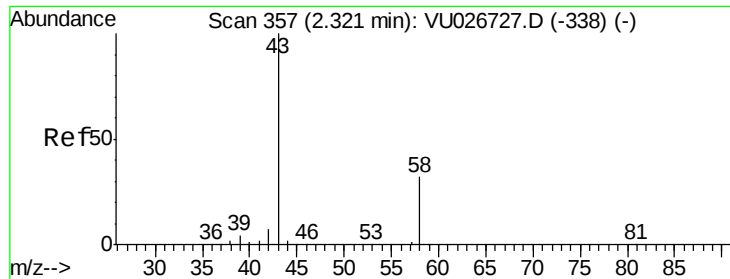


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.351 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU026739.D

Acq: 13 Sep 2018 20:36

Instrument :

MSVOA_U

ClientSampleId :

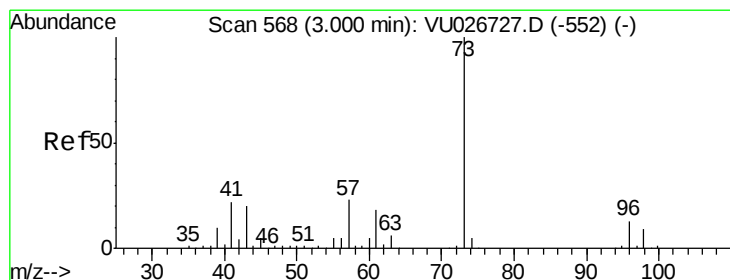
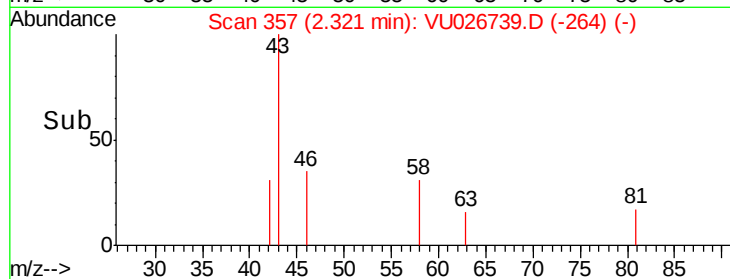
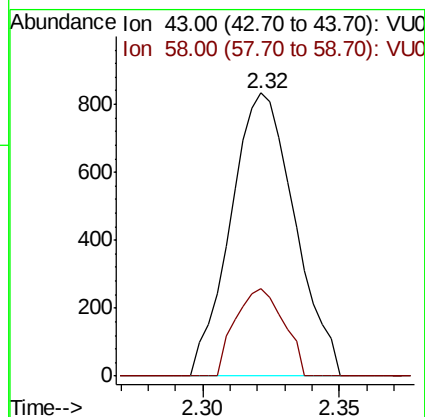
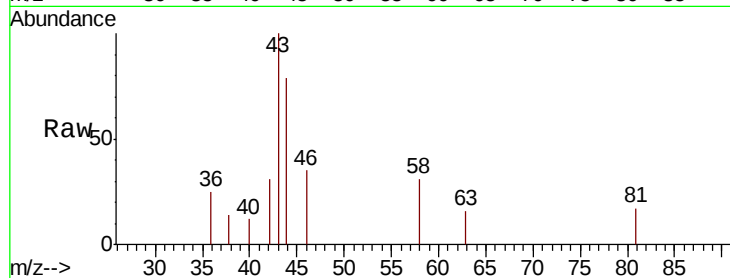
C08L8

Tgt Ion: 43 Resp: 1360

Ion Ratio Lower Upper

43 100

58 23.4 0.0 62.8



#18

Methyl tert-butyl Ether

Concen: 1.139 ug/L

RT: 3.00 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU026739.D

Acq: 13 Sep 2018 20:36

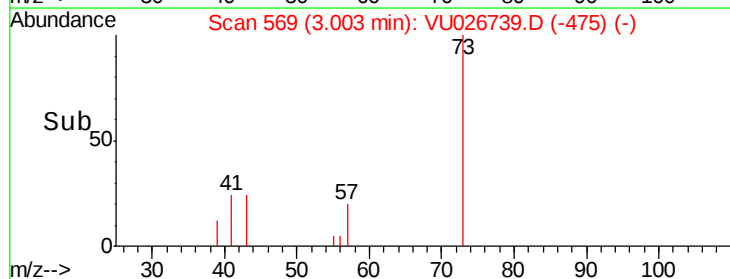
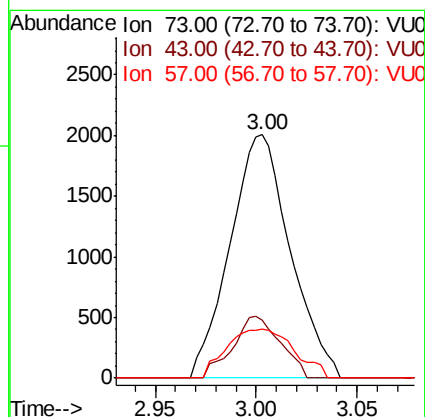
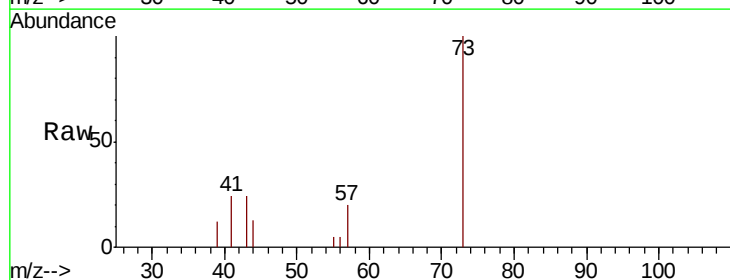
Tgt Ion: 73 Resp: 4179

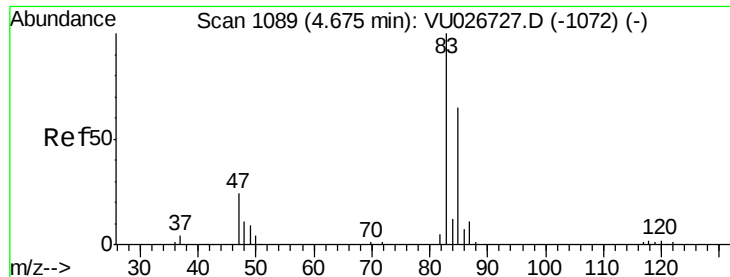
Ion Ratio Lower Upper

73 100

43 20.2 16.0 24.0

57 22.5 18.6 27.8

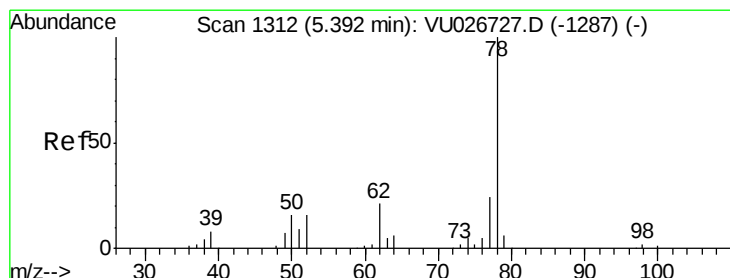
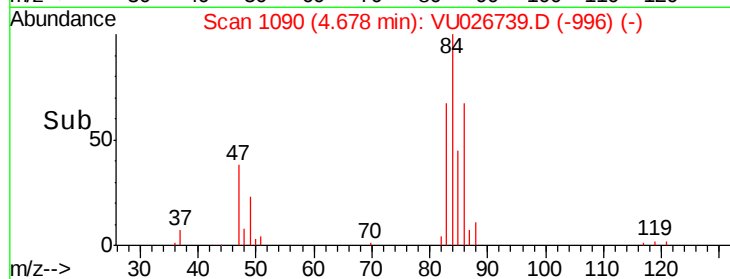
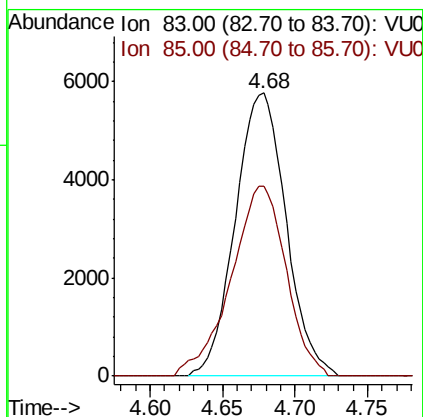
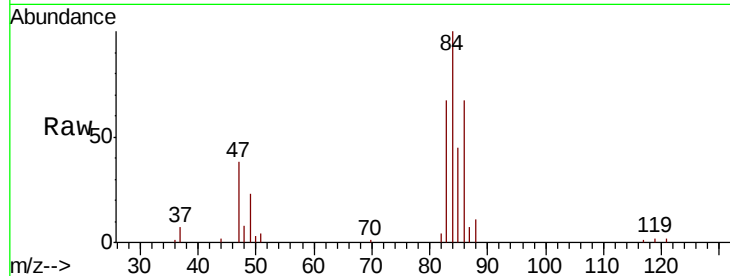




#25
Chloroform
Concen: 6.052 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU026739.D
Acq: 13 Sep 2018 20:36

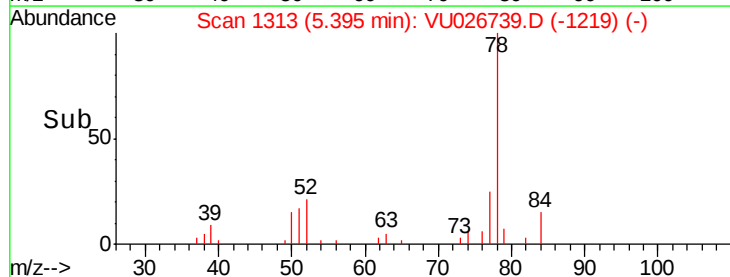
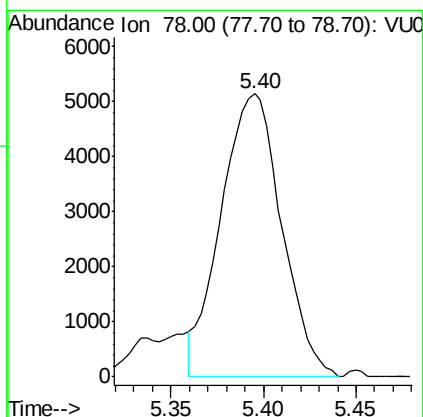
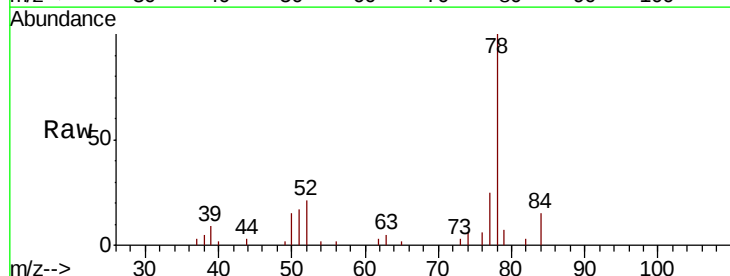
Instrument :
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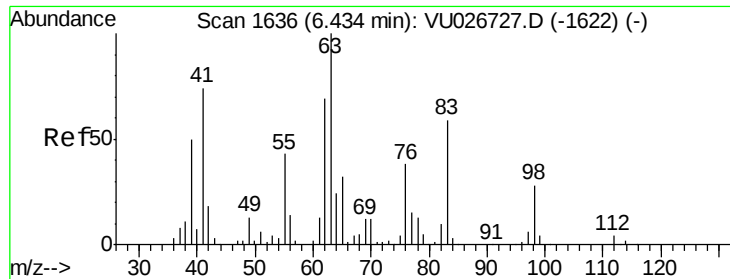
Tgt Ion: 83 Resp: 14049
Ion Ratio Lower Upper
83 100
85 67.1 45.6 84.6



#33
Benzene
Concen: 2.393 ug/L
RT: 5.40 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU026739.D
Acq: 13 Sep 2018 20:36

Tgt Ion: 78 Resp: 11683

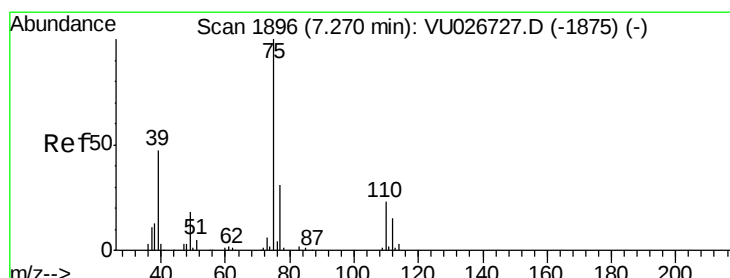
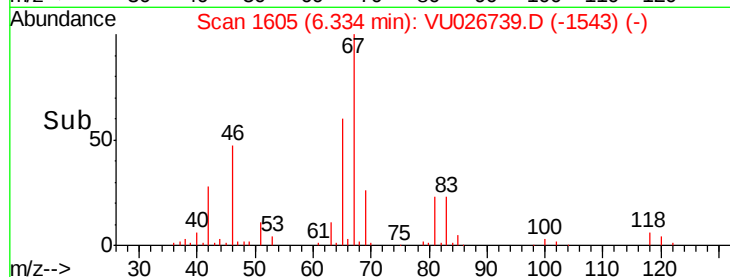
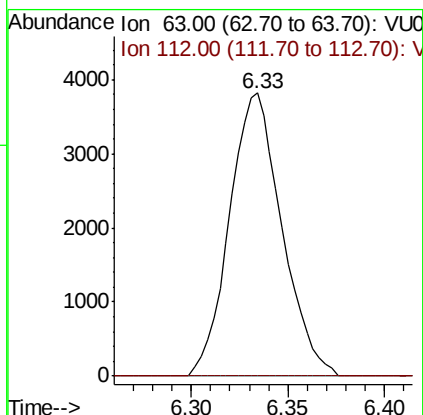
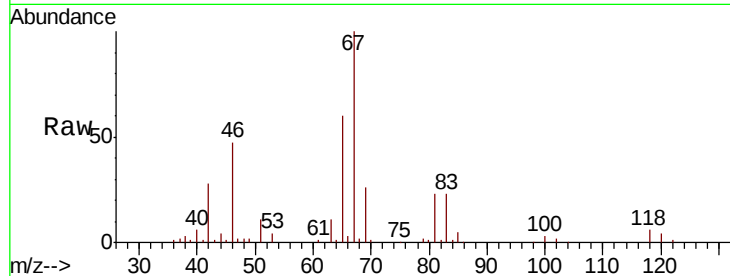




#37
 1,2-Dichloropropane
 Concen: 5.257 ug/L
 RT: 6.33 min Scan# 1605
 Delta R.T. -0.10 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

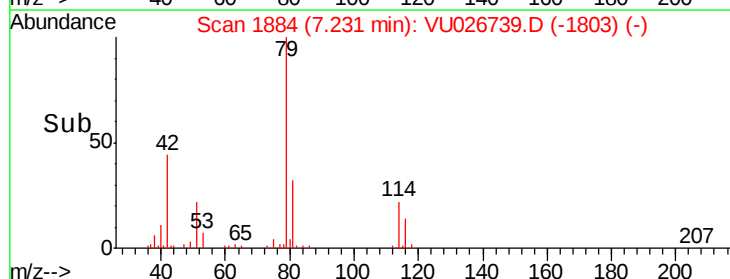
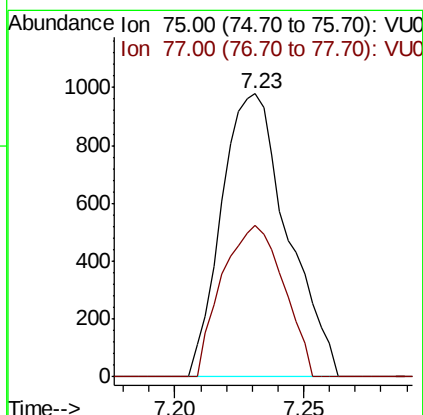
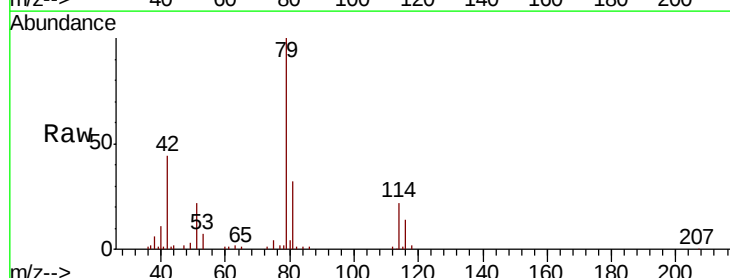
Instrument :
 MSVOA_U
 ClientSampleId :
 C08L8

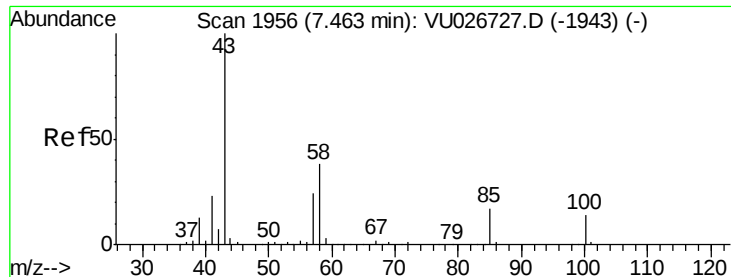
Tgt Ion: 63 Resp: 7170
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.9 4.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.864 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

Tgt Ion: 75 Resp: 1744
 Ion Ratio Lower Upper
 75 100
 77 53.5 22.3 41.3#

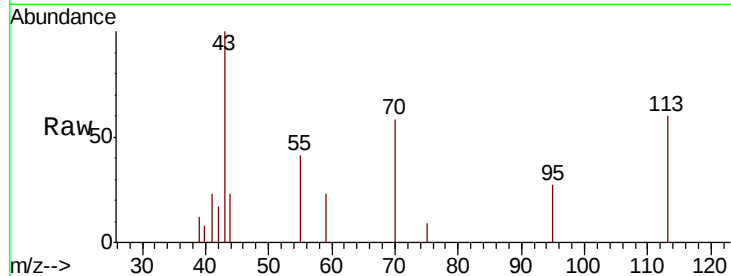




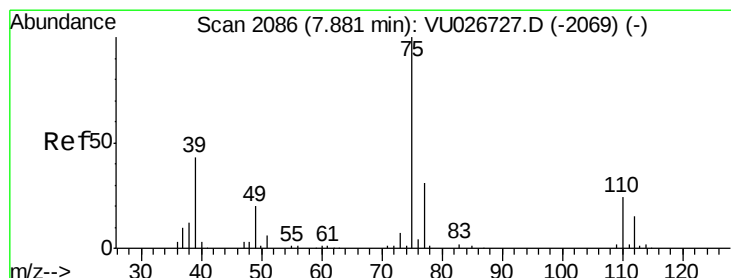
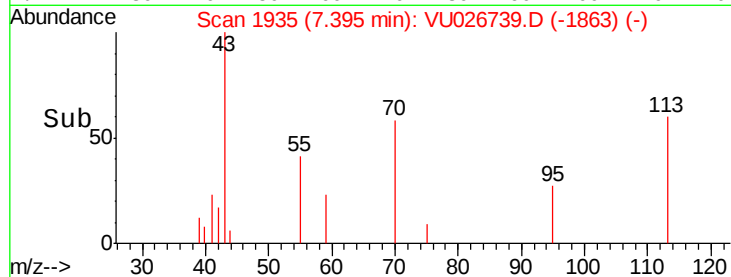
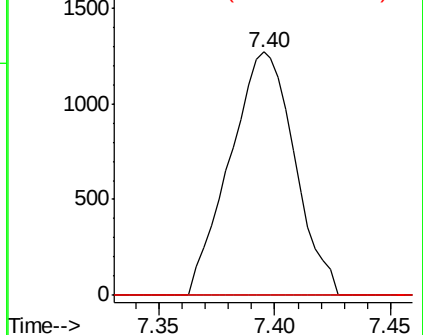
#40
 4-Methyl-2-pentanone
 Concen: 1.416 ug/L
 RT: 7.40 min Scan# 1935
 Delta R.T. -0.07 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

Instrument :
 MSVOA_U
 ClientSampleId :
 C08L8

Tgt Ion: 43 Resp: 2464
 Ion Ratio Lower Upper
 43 100
 58 0.0 31.1 46.7#
 100 0.0 11.3 16.9#

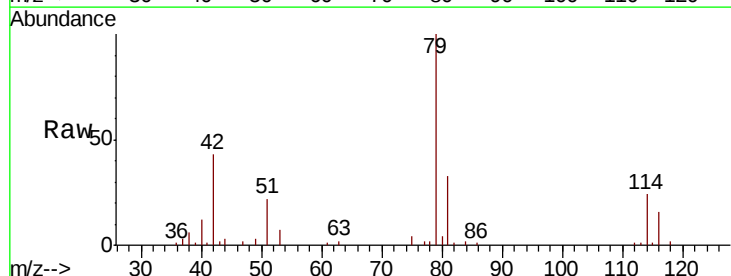


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

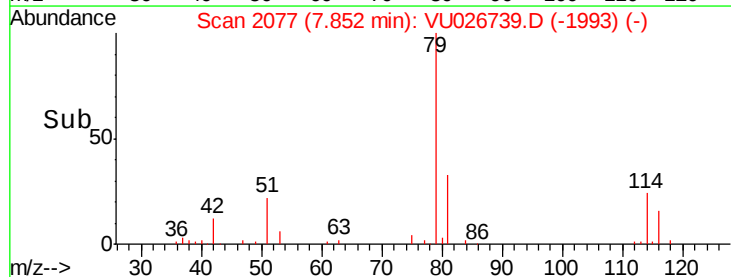
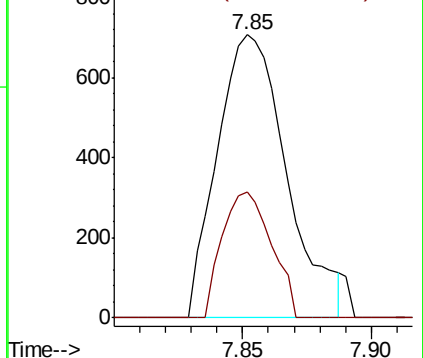


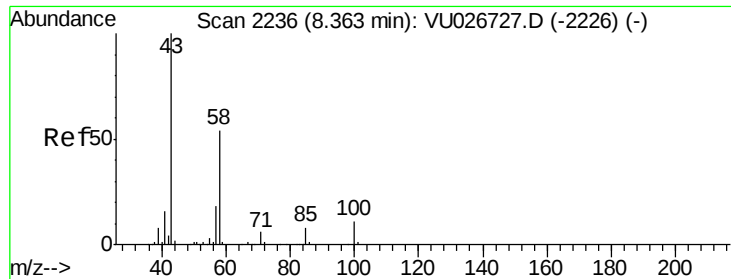
#44
 trans-1,3-Dichloropropene
 Concen: 0.706 ug/L
 RT: 7.85 min Scan# 2077
 Delta R.T. -0.03 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

Tgt Ion: 75 Resp: 1326
 Ion Ratio Lower Upper
 75 100
 77 44.6 22.4 41.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0

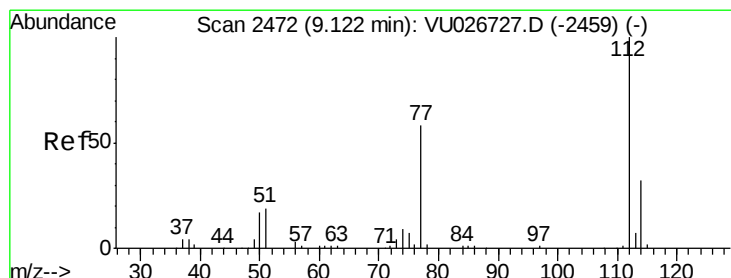
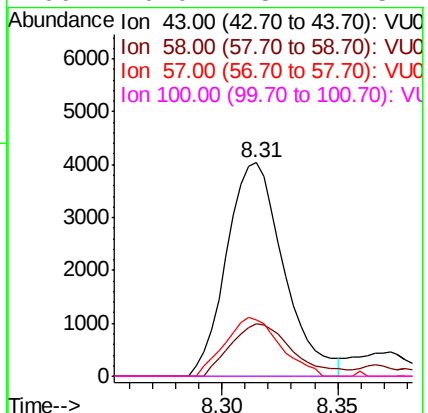
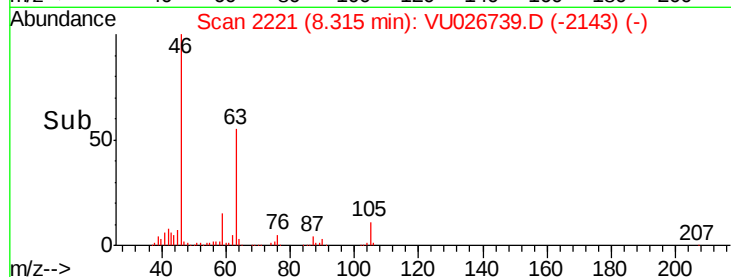
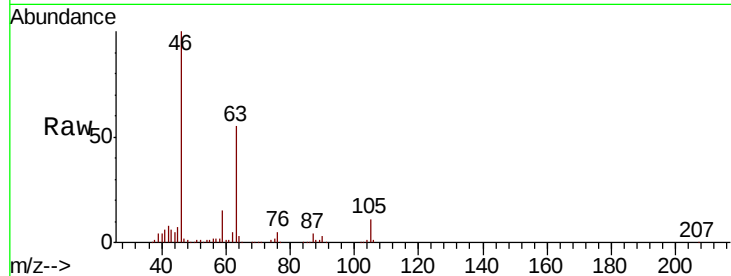




#48
2-Hexanone
Concen: 4.705 ug/L
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU026739.D
Acq: 13 Sep 2018 20:36

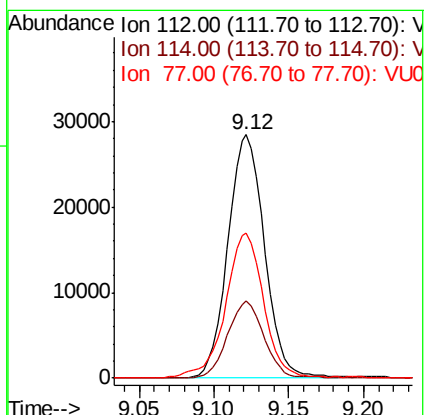
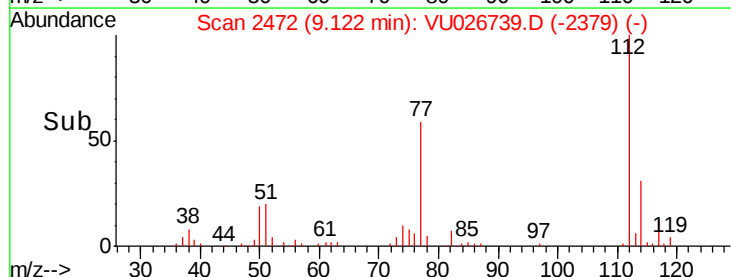
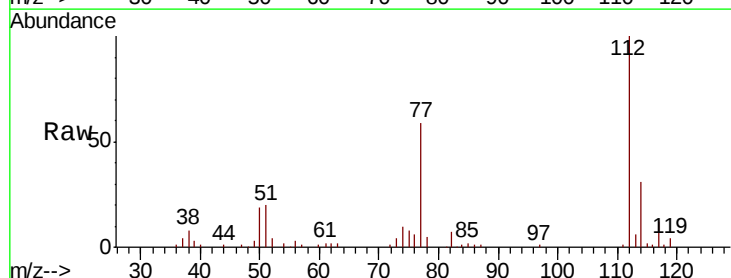
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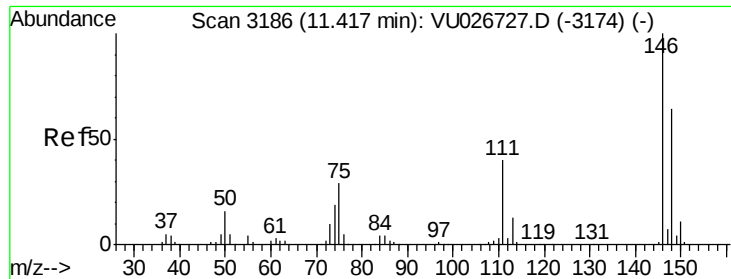
Tgt Ion: 43 Resp: 6911
Ion Ratio Lower Upper
43 100
58 27.0 42.2 63.4#
57 26.5 14.4 21.6#
100 0.0 8.7 13.1#



#51
Chlorobenzene
Concen: 14.613 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. -0.00 min
Lab File: VU026739.D
Acq: 13 Sep 2018 20:36

Tgt Ion: 112 Resp: 48549
Ion Ratio Lower Upper
112 100
114 31.5 22.9 42.5
77 59.3 47.2 70.8

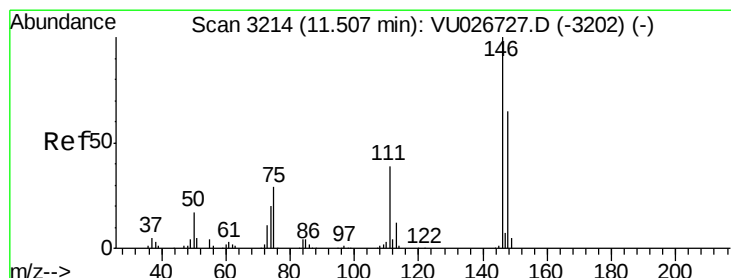
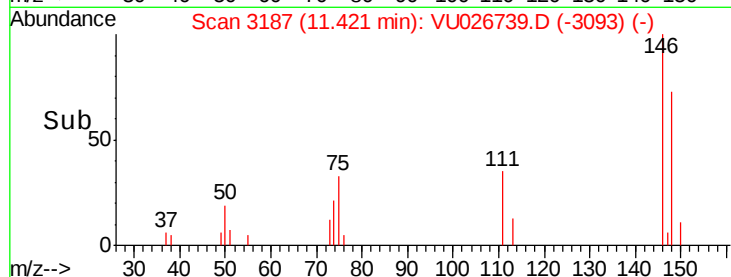
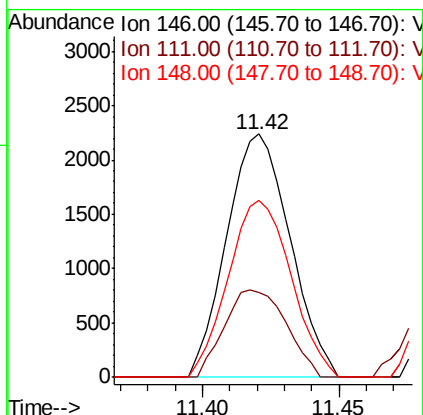
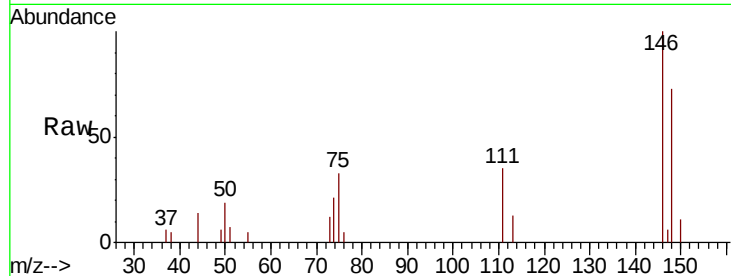




#62
 1,3-Dichlorobenzene
 Concen: 1.636 ug/L
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

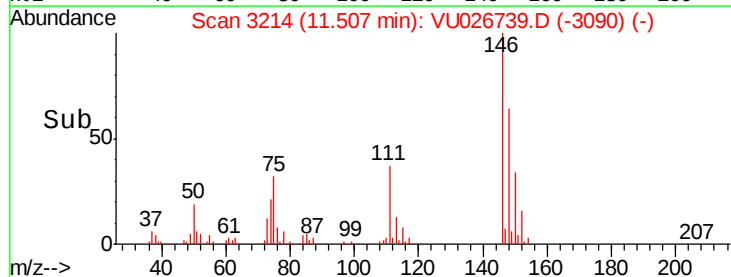
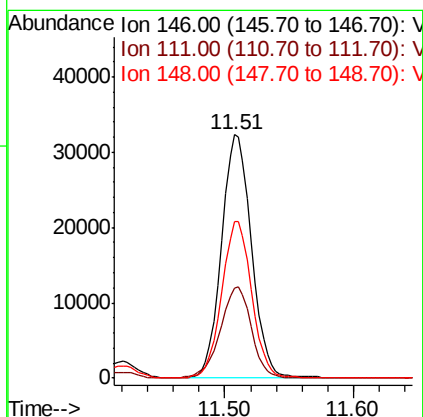
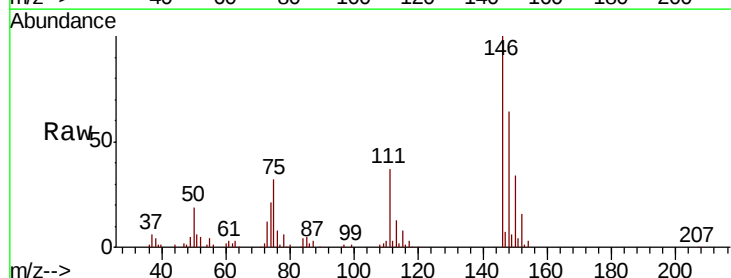
Instrument :
 MSVOA_U
 ClientSampleId :
 C08L8

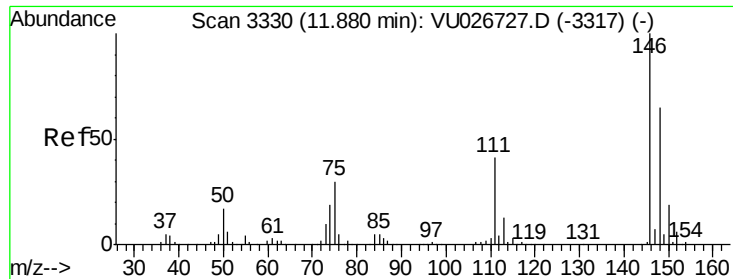
Tgt Ion:146 Resp: 3614
 Ion Ratio Lower Upper
 146 100
 111 35.1 26.7 49.5
 148 72.5 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 22.278 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

Tgt Ion:146 Resp: 52132
 Ion Ratio Lower Upper
 146 100
 111 37.2 26.5 49.3
 148 64.3 45.2 84.0





#65

1,2-Dichlorobenzene

Concen: 14.070 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU026739.D

Acq: 13 Sep 2018 20:36

Instrument :

MSVOA_U

ClientSampleId :

C08L8

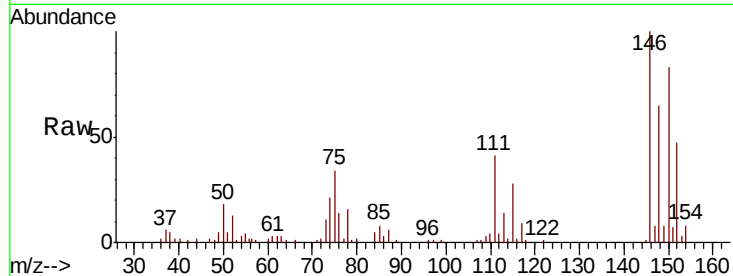
Tgt Ion:146 Resp: 32848

Ion Ratio Lower Upper

146 100

111 40.6 32.8 49.2

148 64.5 52.2 78.4

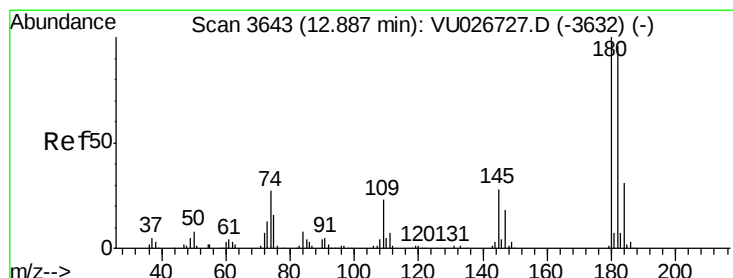
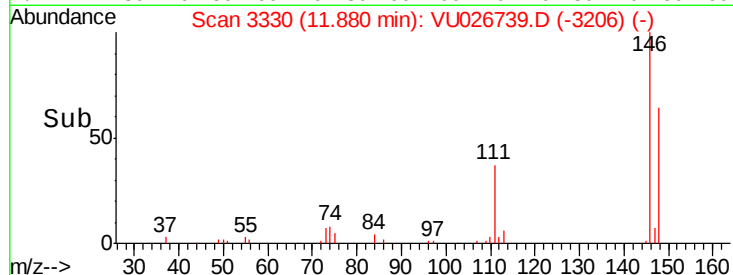
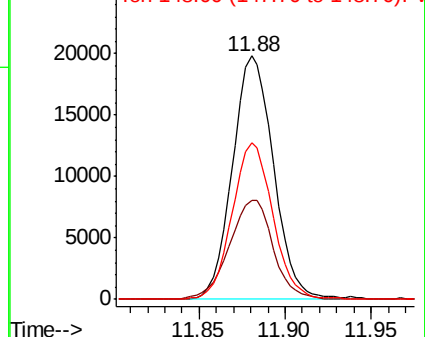


Abundance

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



#67

1,3,5-Trichlorobenzene

Concen: 9.140 ug/L

RT: 13.51 min Scan# 3836

Delta R.T. 0.62 min

Lab File: VU026739.D

Acq: 13 Sep 2018 20:36

Tgt Ion:180 Resp: 16015

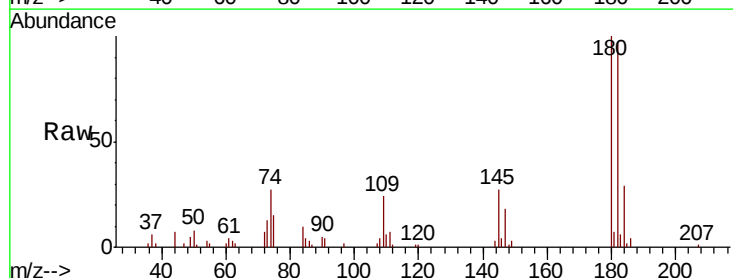
Ion Ratio Lower Upper

180 100

182 96.8 76.8 115.2

184 29.4 24.2 36.2

145 27.2 21.4 32.2



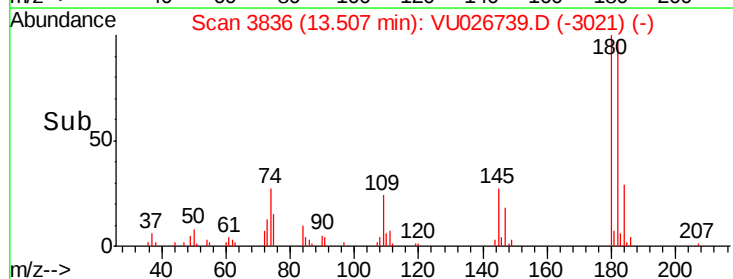
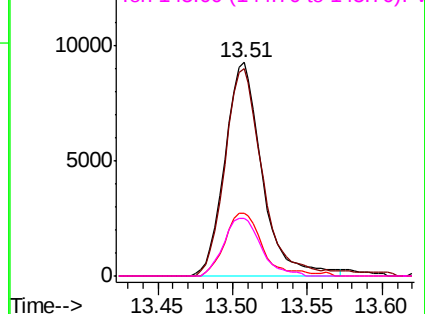
Abundance

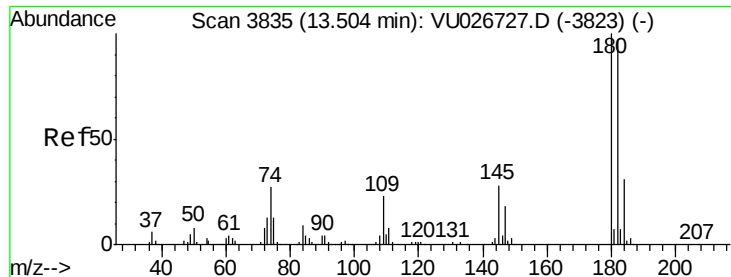
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

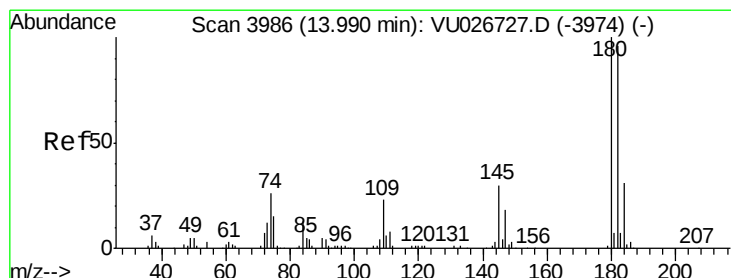
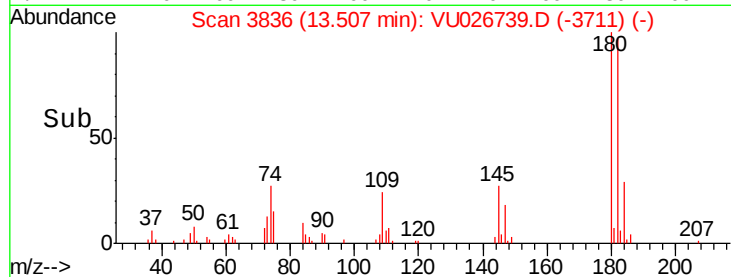
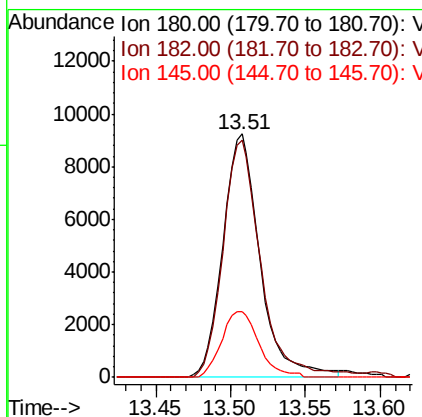
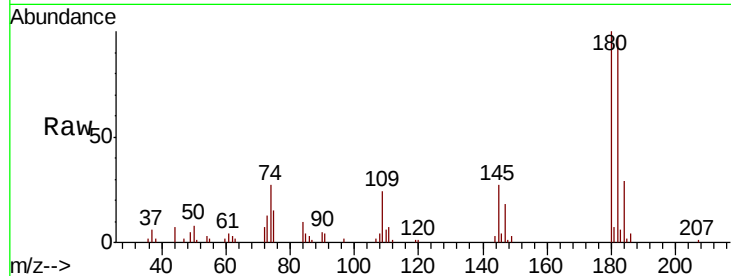




#68
 1,2,4-trichlorobenzene
 Concen: 10.516 ug/L
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.00 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

Instrument :
 MSVOA_U
 ClientSampleId :
 C08L8

Tgt Ion:180 Resp: 16015
 Ion Ratio Lower Upper
 180 100
 182 96.8 76.0 114.0
 145 27.2 23.4 35.0



#70
 1,2,3-Trichlorobenzene
 Concen: 1.178 ug/L
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU026739.D
 Acq: 13 Sep 2018 20:36

Tgt Ion:180 Resp: 1943
 Ion Ratio Lower Upper
 180 100
 182 91.4 76.7 115.1
 145 23.9 23.0 34.6

