

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091518\
 Data File : VU026734.D
 Acq On : 13 Sep 2018 18:40
 Operator : MD/SY
 Sample : J4893-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C08K3

Quant Time: Sep 14 01:22:36 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	185897	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	177128	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	98570	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	62255	44.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.88%
7) Chloroethane-d5	1.68	69	50477	45.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.44%
11) 1,1-Dichloroethene-d2	2.27	63	83900	33.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.68%
21) 2-Butanone-d5	4.18	46	84767	98.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.33%
24) Chloroform-d	4.65	84	97814	42.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.92%
26) 1,2-Dichloroethane-d4	5.31	65	67558	44.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.62%
32) Benzene-d6	5.34	84	208707	45.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.06%
36) 1,2-Dichloropropane-d6	6.33	67	71039	46.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.36%
41) Toluene-d8	7.57	98	189206	43.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.98%
43) trans-1,3-Dichloropropene-	7.85	79	30843	43.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.24%
47) 2-Hexanone-d5	8.31	63	59379	94.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.60%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	91495	43.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.88%
64) 1,2-Dichlorobenzene-d4	11.86	152	80948	41.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.38%

Target Compounds

					Qvalue
9) Trichlorofluoromethane	1.88	101	21943	10.948 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	700	0.613 ug/L #	18
13) Acetone	2.32	43	1153	1.174 ug/L	90
25) Chloroform	4.67	83	6484	2.864 ug/L	95
27) 1,2-Dichloroethane	5.39	62	1671	0.929 ug/L #	75
31) Carbon tetrachloride	5.14	117	1735	1.023 ug/L	94
33) Benzene	5.39	78	167177	33.703 ug/L	100
37) 1,2-Dichloropropane	6.33	63	6933	5.003 ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	1784	0.870 ug/L #	76
46) Tetrachloroethene	8.23	164	532	0.513 ug/L #	87
48) 2-Hexanone	8.31	43	6783	4.545 ug/L #	68
51) Chlorobenzene	9.12	112	420689	124.623 ug/L	100
52) Ethylbenzene	9.25	91	4386	0.789 ug/L	98
54) o-xylene	9.78	106	4317	2.075 ug/L	82
59) 1,2,3-Trichloropropane	11.42	75	101114	61.672 ug/L #	44
62) 1,3-Dichlorobenzene	11.42	146	343422	121.339 ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	5560996	1854.733 ug/L	99

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

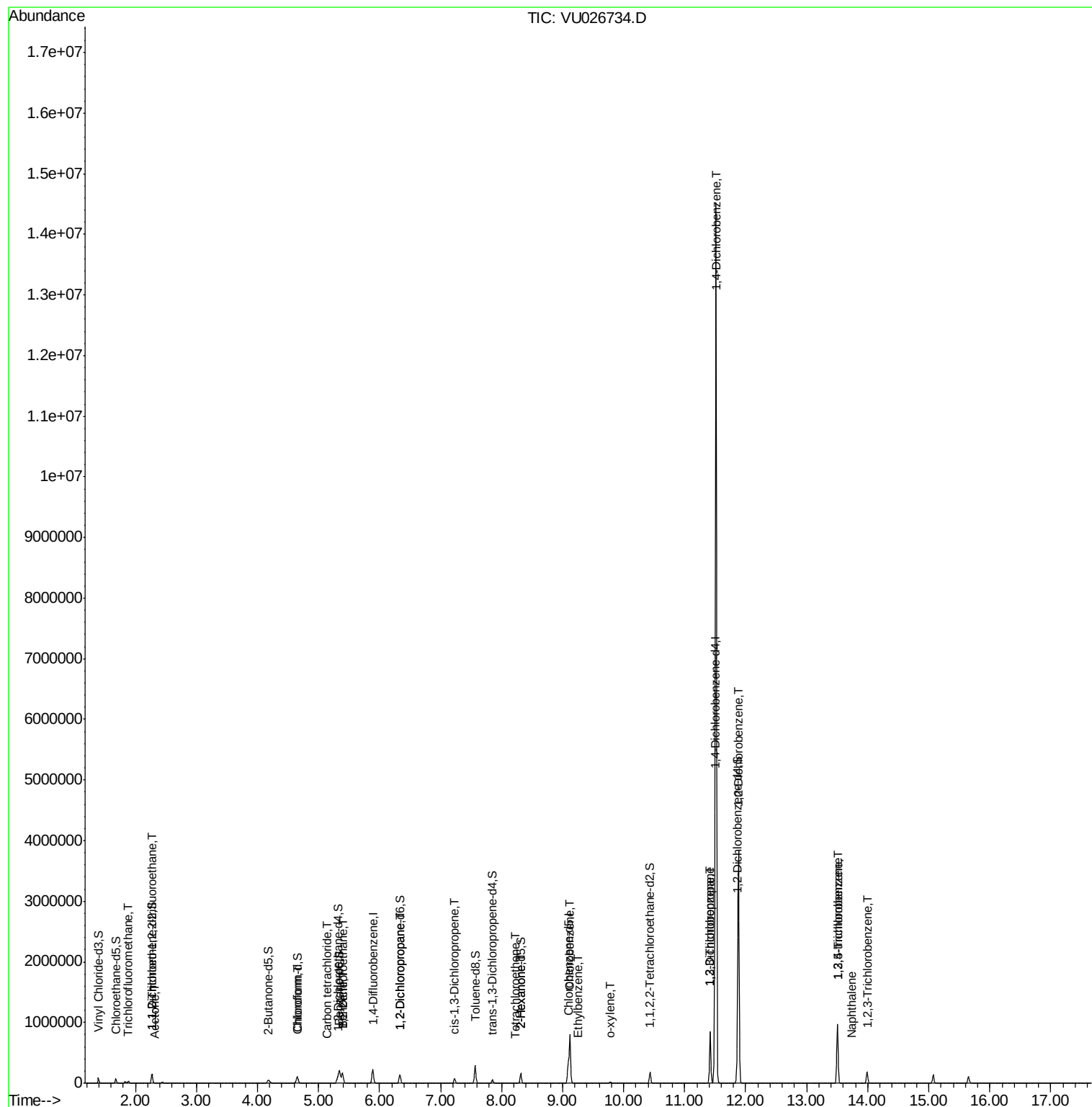
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.88	146	1495792	500.057	ug/L	99
67) 1,3,5-Trichlorobenzene	13.50	180	306489	136.520	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	306489	157.070	ug/L	98
69) Naphthalene	13.75	128	4995	0.835	ug/L #	97
70) 1,2,3-Trichlorobenzene	13.99	180	60157	28.461	ug/L	99

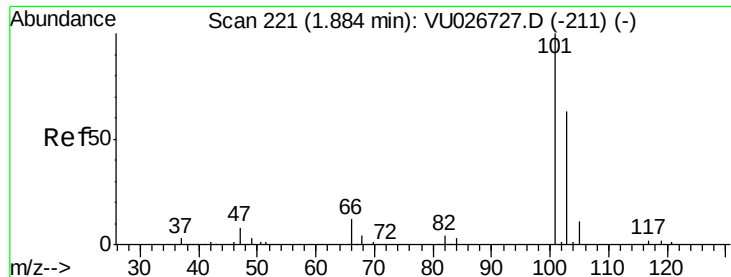
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#9

Trichlorofluoromethane

Concen: 10.948 ug/L

RT: 1.88 min Scan# 221

Delta R.T. -0.00 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

Instrument :

MSVOA_U

ClientSampleId :

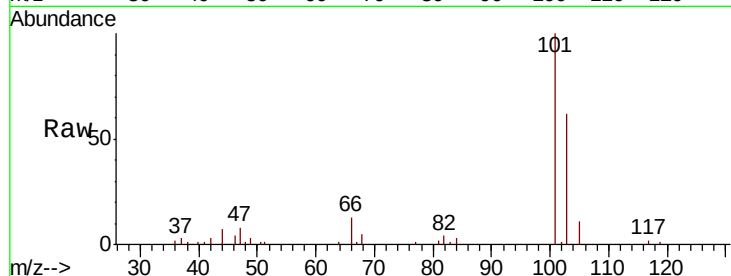
C08K3

Tgt Ion:101 Resp: 21943

Ion Ratio Lower Upper

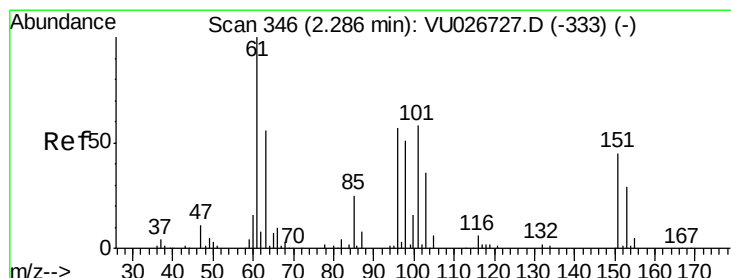
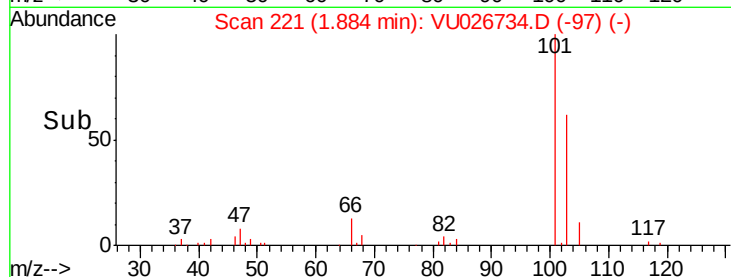
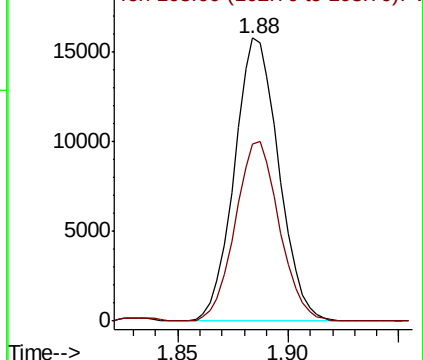
101 100

103 63.0 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

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

Concen: 0.613 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.02 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

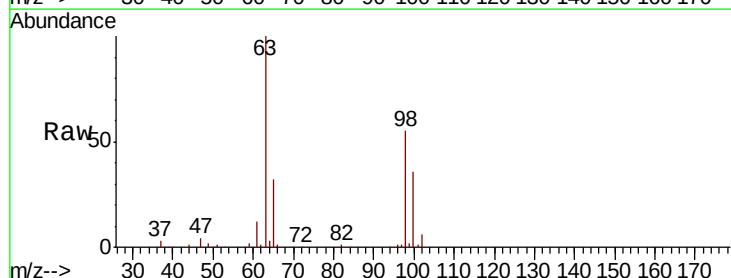
Tgt Ion:101 Resp: 700

Ion Ratio Lower Upper

101 100

85 0.0 34.1 51.1#

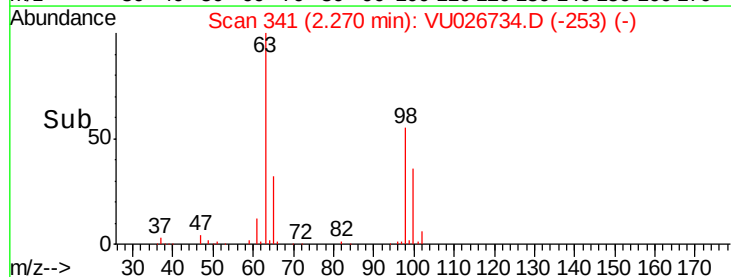
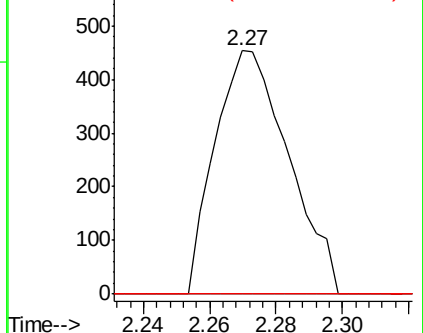
151 0.0 62.6 94.0#

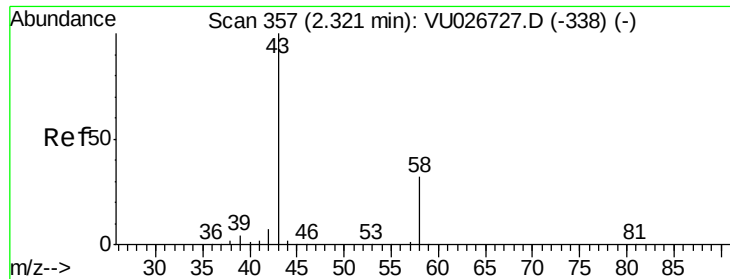


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#13

Acetone

Concen: 1.174 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

Instrument :

MSVOA_U

ClientSampleId :

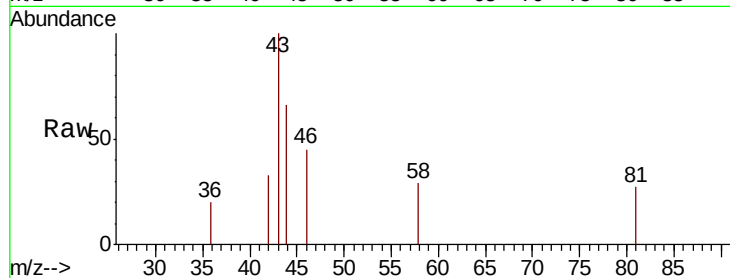
C08K3

Tgt Ion: 43 Resp: 1153

Ion Ratio Lower Upper

43 100

58 25.7 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU026727.D (-338) (-)

Ion 58.00 (57.70 to 58.70): VU026727.D (-338) (-)

2.32

600

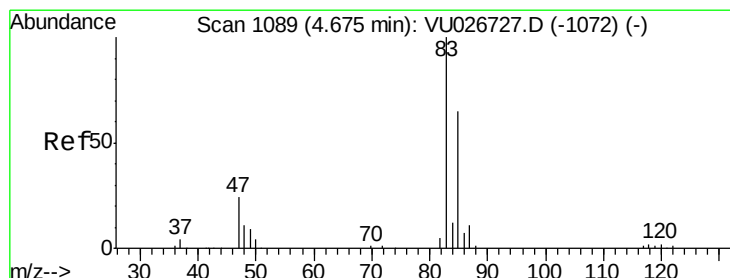
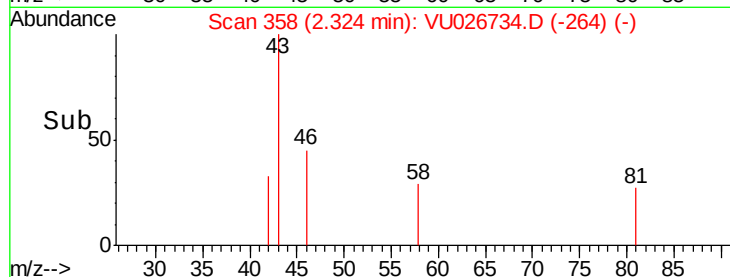
400

200

0

2.28 2.30 2.32 2.34 2.36

Time-->



#25

Chloroform

Concen: 2.864 ug/L

RT: 4.67 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VU026734.D

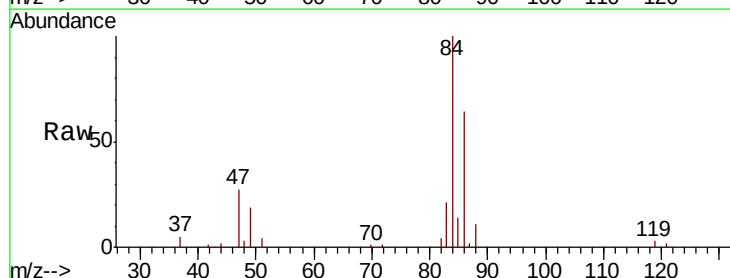
Acq: 13 Sep 2018 18:40

Tgt Ion: 83 Resp: 6484

Ion Ratio Lower Upper

83 100

85 69.3 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU026727.D (-1072) (-)

Ion 85.00 (84.70 to 85.70): VU026727.D (-1072) (-)

4.67

3000

2500

2000

1500

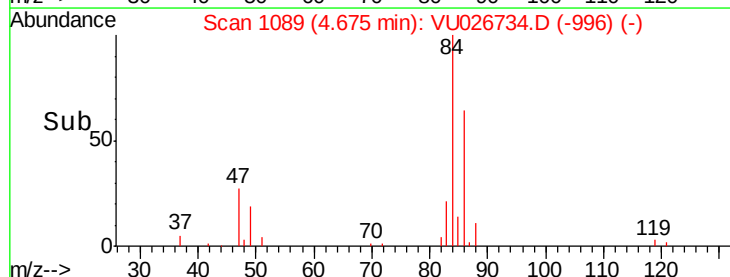
1000

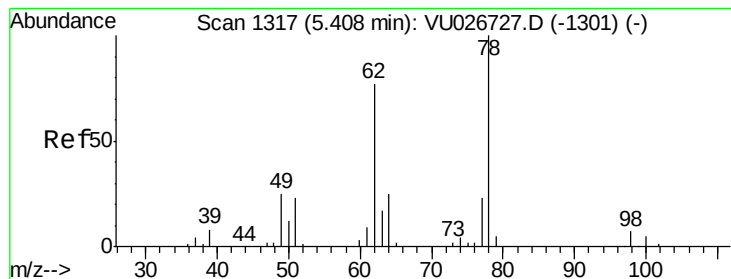
500

0

4.60 4.65 4.70 4.75

Time-->





#27

1,2-Dichloroethane

Concen: 0.929 ug/L

RT: 5.39 min Scan# 1311

Delta R.T. -0.02 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

Instrument :

MSVOA_U

ClientSampled :

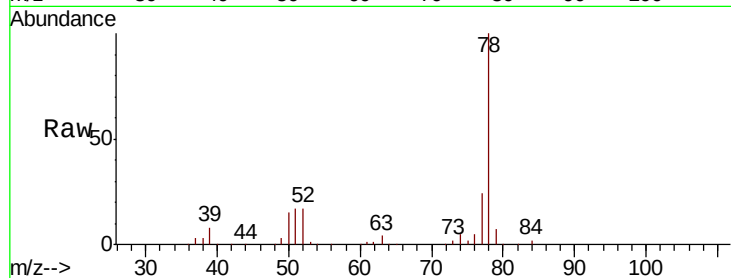
C08K3

Tgt Ion: 62 Resp: 1671

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

800

600

400

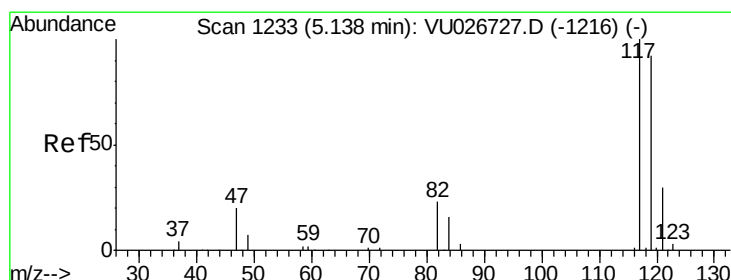
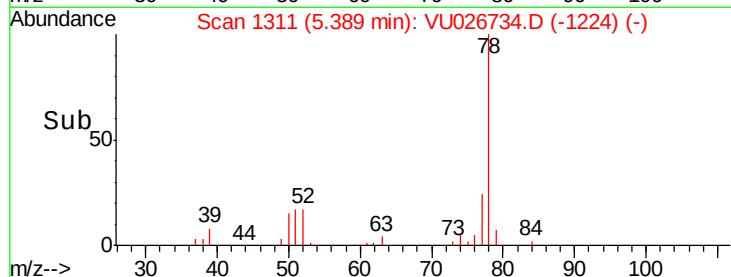
200

0

5.35 5.40 5.45

5.39

Time-->



#31

Carbon tetrachloride

Concen: 1.023 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU026734.D

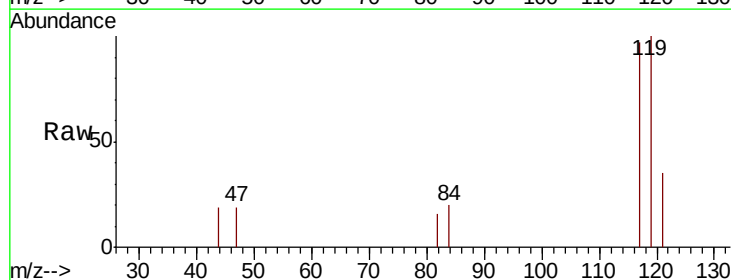
Acq: 13 Sep 2018 18:40

Tgt Ion: 117 Resp: 1735

Ion Ratio Lower Upper

117 100

119 102.9 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

1000

800

600

400

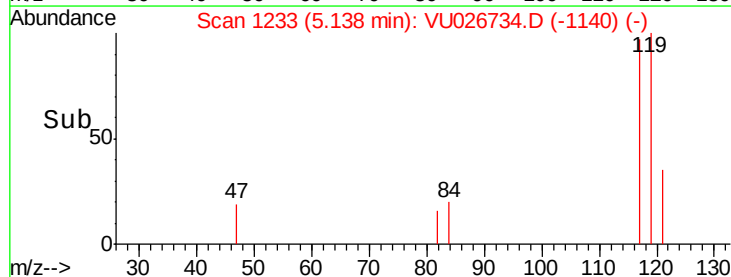
200

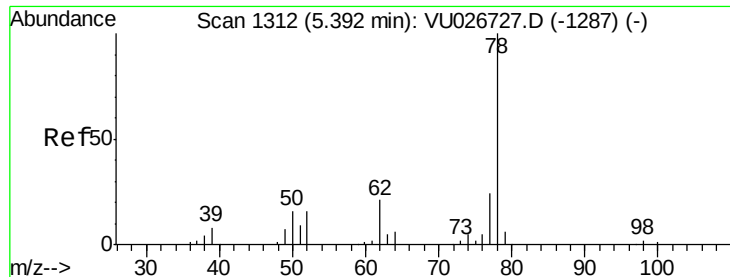
0

5.10 5.15

5.14

Time-->





#33

Benzene

Concen: 33.703 ug/L

RT: 5.39 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

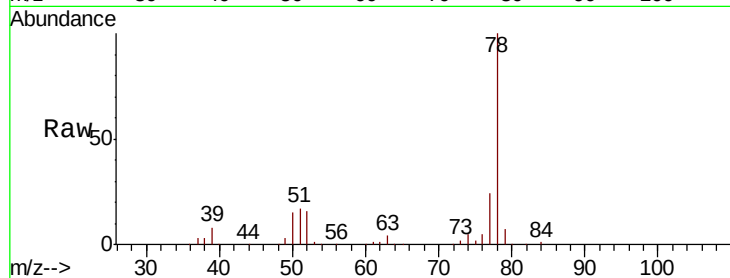
Instrument :

MSVOA_U

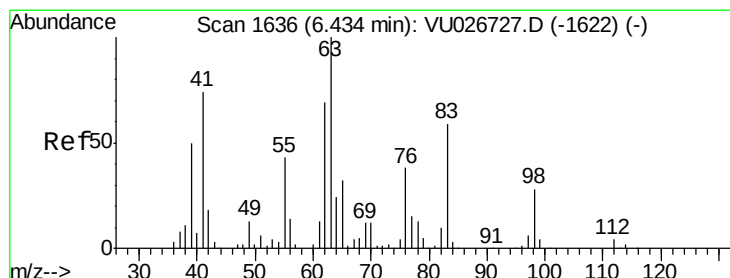
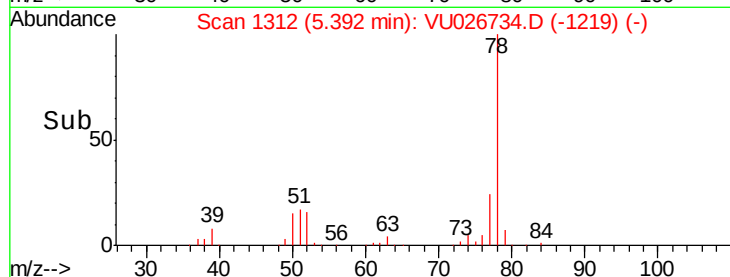
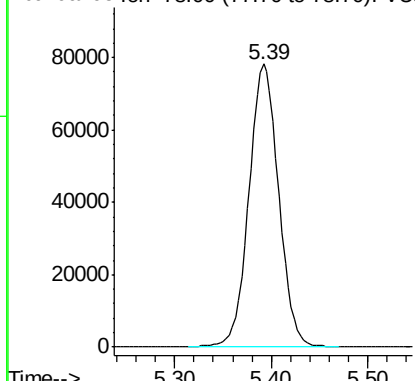
ClientSampleId :

C08K3

Tgt Ion: 78 Resp: 167177



Abundance Ion 78.00 (77.70 to 78.70): VU0



#37

1,2-Dichloropropane

Concen: 5.003 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU026734.D

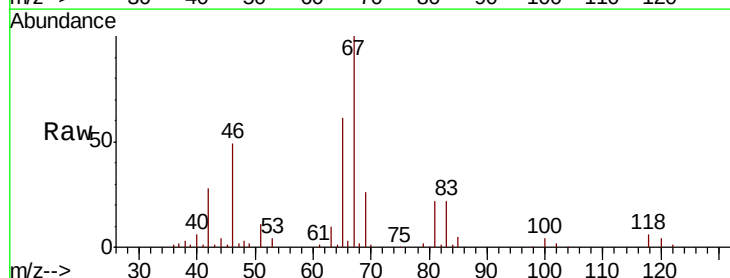
Acq: 13 Sep 2018 18:40

Tgt Ion: 63 Resp: 6933

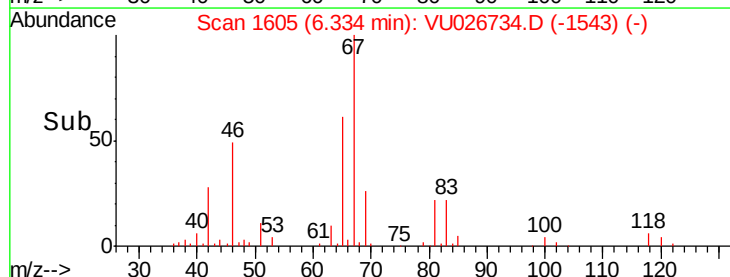
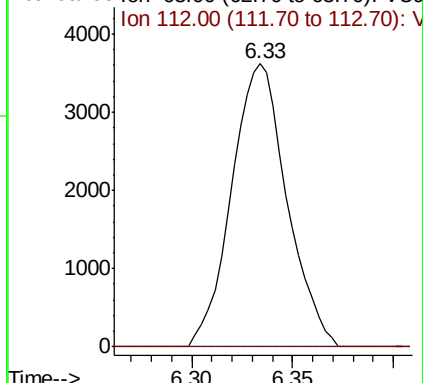
Ion Ratio Lower Upper

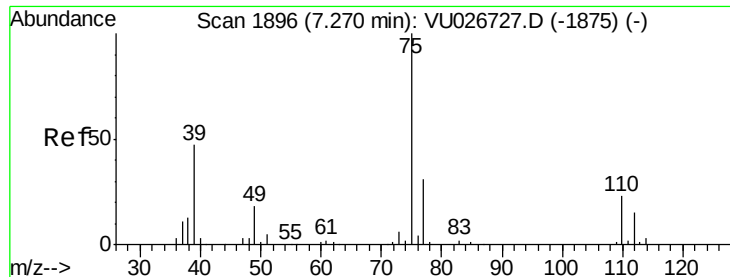
63 100

112 0.0 2.9 4.3#



Abundance Ion 63.00 (62.70 to 63.70): VU0

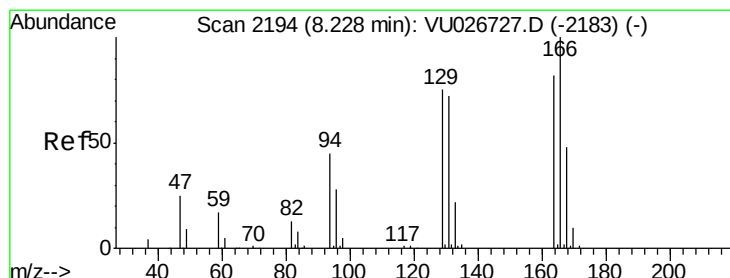
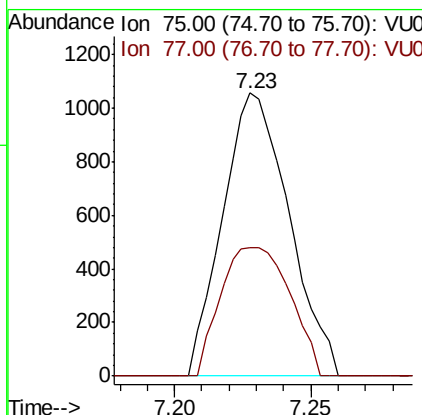
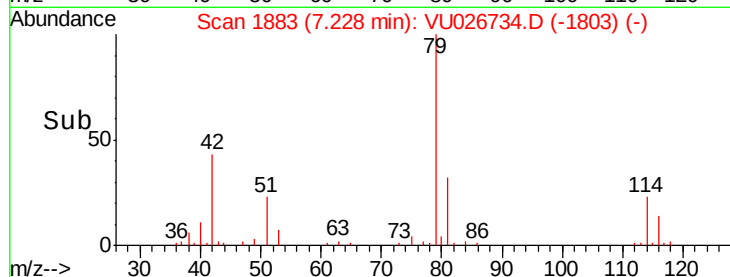
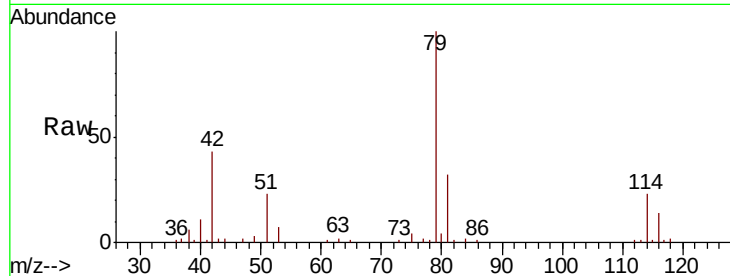




#39
 cis-1,3-Dichloropropene
 Concen: 0.870 ug/L
 RT: 7.23 min Scan# 1883
 Delta R.T. -0.04 min
 Lab File: VU026734.D
 Acq: 13 Sep 2018 18:40

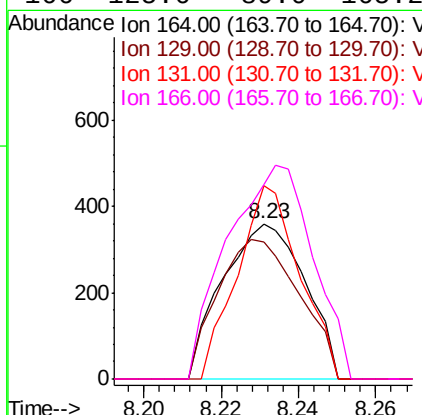
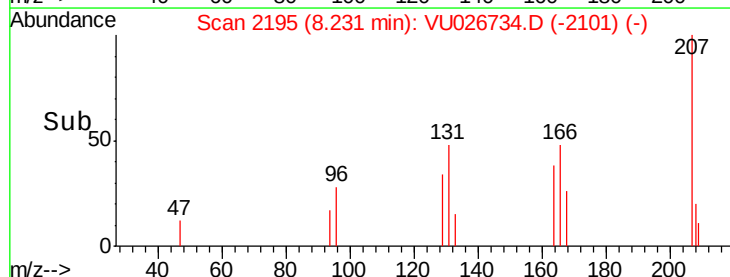
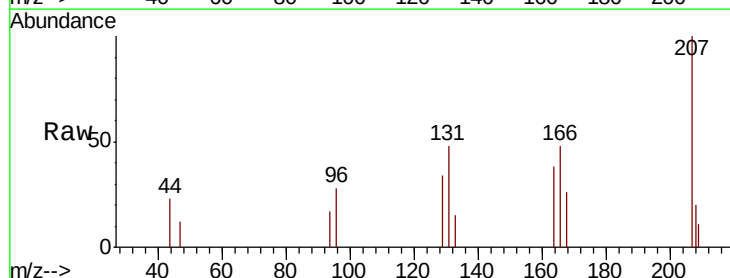
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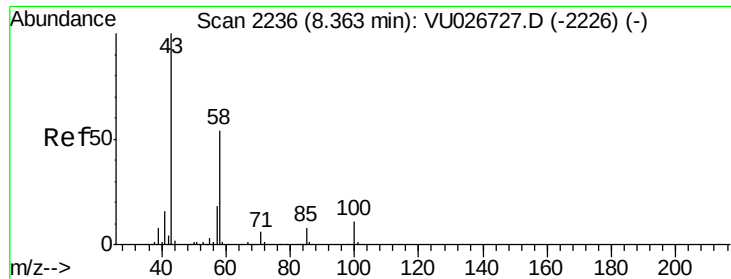
Tgt Ion: 75 Resp: 1784
 Ion Ratio Lower Upper
 75 100
 77 45.4 22.3 41.3#



#46
 Tetrachloroethene
 Concen: 0.513 ug/L
 RT: 8.23 min Scan# 2195
 Delta R.T. 0.00 min
 Lab File: VU026734.D
 Acq: 13 Sep 2018 18:40

Tgt Ion: 164 Resp: 532
 Ion Ratio Lower Upper
 164 100
 129 88.3 65.0 120.8
 131 124.8 62.5 116.1#
 166 125.6 89.0 165.2

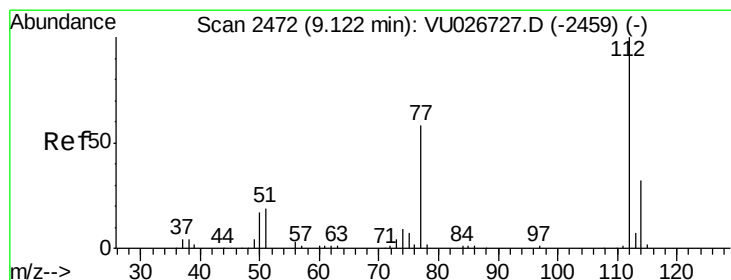
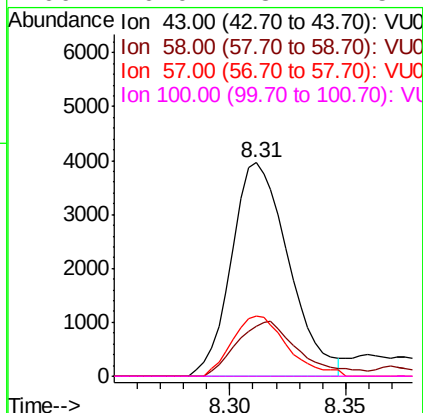
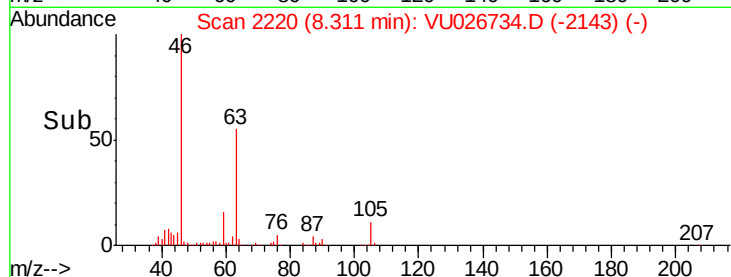
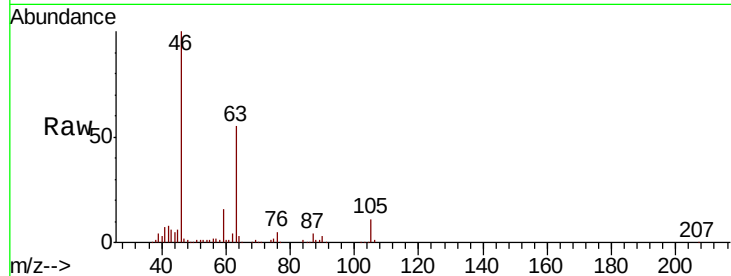




#48
 2-Hexanone
 Concen: 4.545 ug/L
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU026734.D
 Acq: 13 Sep 2018 18:40

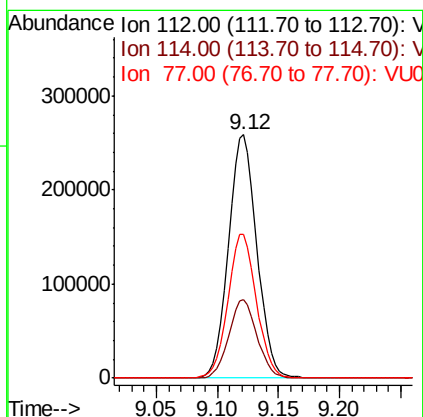
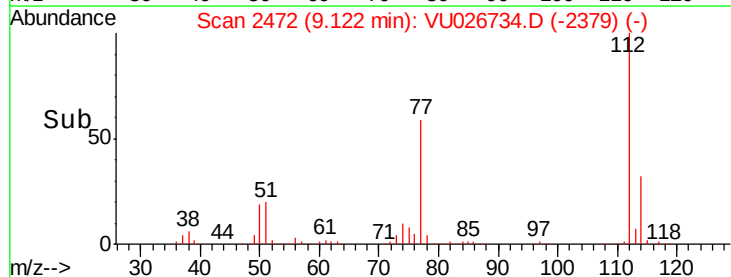
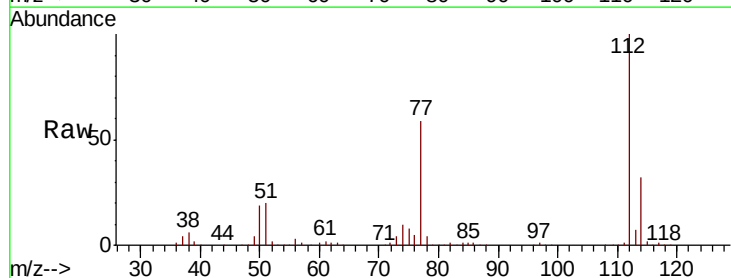
Instrument :
 MSVOA_U
 ClientSampleId :
 C08K3

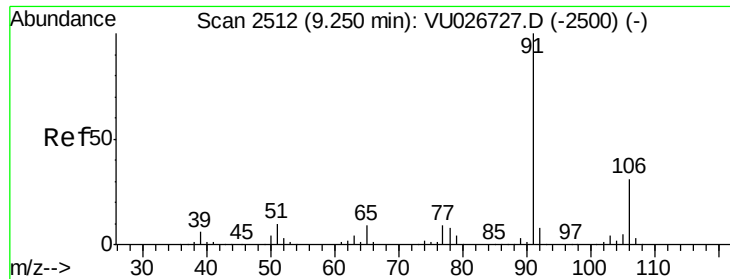
Tgt Ion: 43 Resp: 6783
 Ion Ratio Lower Upper
 43 100
 58 27.3 42.2 63.4#
 57 26.8 14.4 21.6#
 100 0.0 8.7 13.1#



#51
 Chlorobenzene
 Concen: 124.623 ug/L
 RT: 9.12 min Scan# 2472
 Delta R.T. -0.00 min
 Lab File: VU026734.D
 Acq: 13 Sep 2018 18:40

Tgt Ion: 112 Resp: 420689
 Ion Ratio Lower Upper
 112 100
 114 32.3 22.9 42.5
 77 58.9 47.2 70.8





#52

Ethylbenzene

Concen: 0.789 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

Instrument :

MSVOA_U

ClientSampleId :

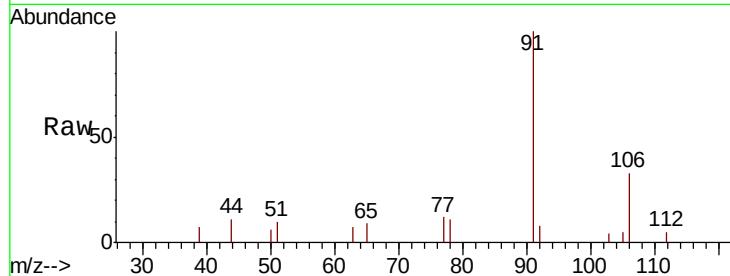
C08K3

Tgt Ion: 91 Resp: 4386

Ion Ratio Lower Upper

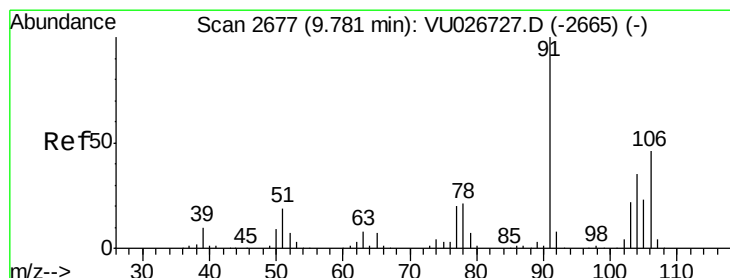
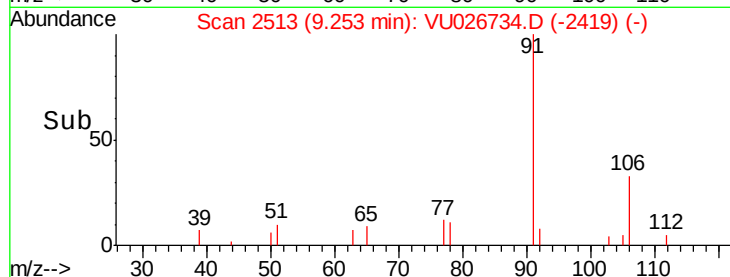
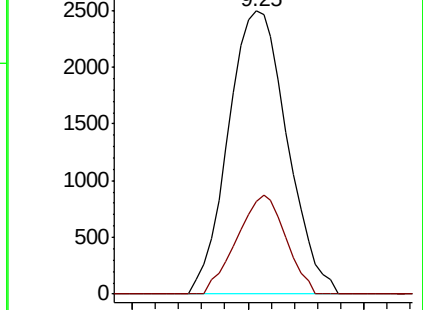
91 100

106 32.8 22.1 41.1



Abundance Ion 91.00 (90.70 to 91.70): VU026727.D (-2500) (-)

Ion 106.00 (105.70 to 106.70): VU026727.D (-2500) (-)



#54

o-xylene

Concen: 2.075 ug/L

RT: 9.78 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VU026734.D

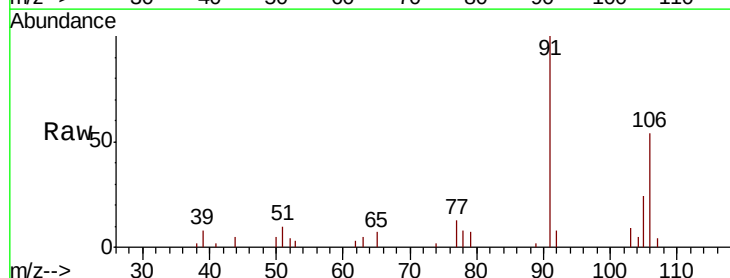
Acq: 13 Sep 2018 18:40

Tgt Ion: 106 Resp: 4317

Ion Ratio Lower Upper

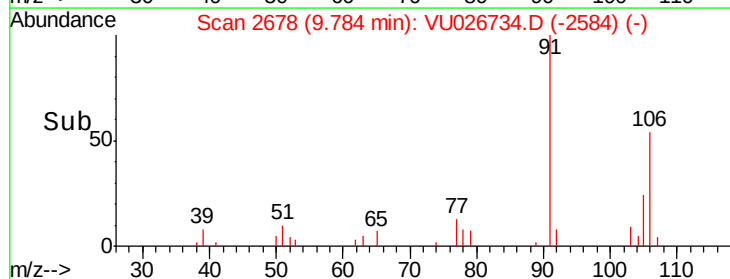
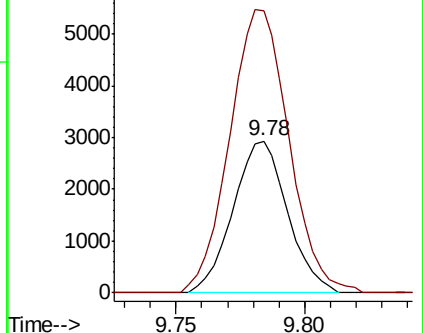
106 100

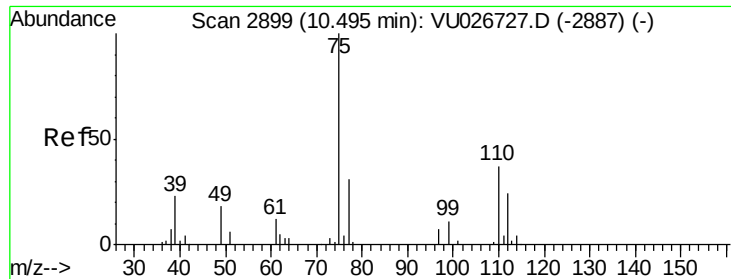
91 185.6 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): VU026727.D (-2665) (-)

Ion 91.00 (90.70 to 91.70): VU026727.D (-2665) (-)





#59

1,2,3-Trichloropropane

Concen: 61.672 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.92 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

Instrument :

MSVOA_U

ClientSampled :

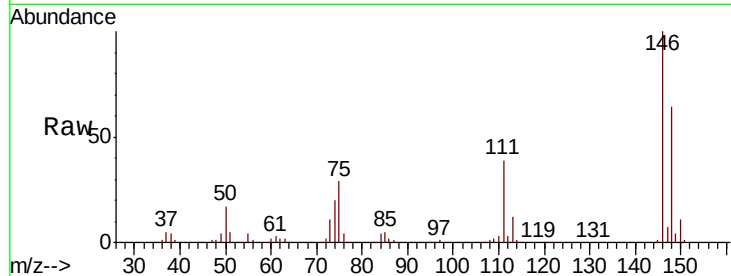
C08K3

Tgt Ion: 75 Resp: 101114

Ion Ratio Lower Upper

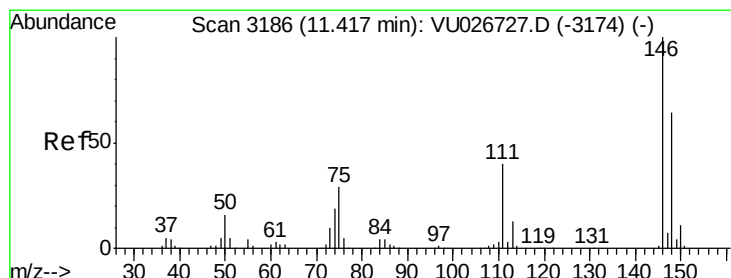
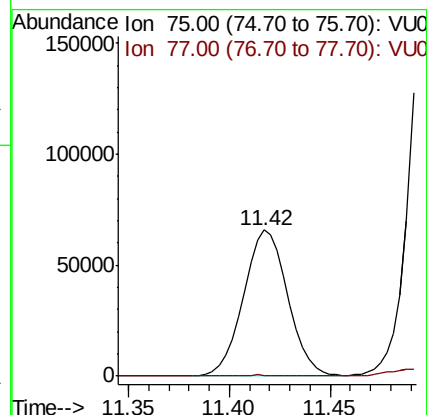
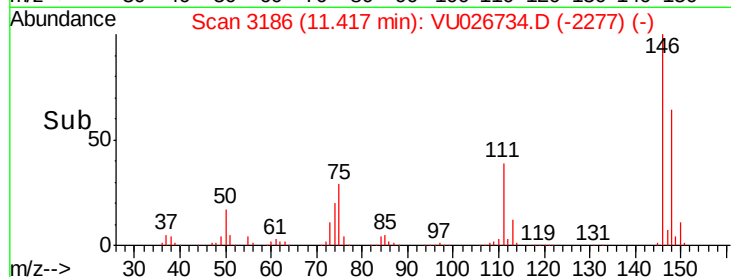
75 100

77 0.8 25.8 38.6#



Abundance Ion 75.00 (74.70 to 75.70): VU026734.D (-2277) (-)

Ion 77.00 (76.70 to 77.70): VU026734.D (-2277) (-)



#62

1,3-Dichlorobenzene

Concen: 121.339 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

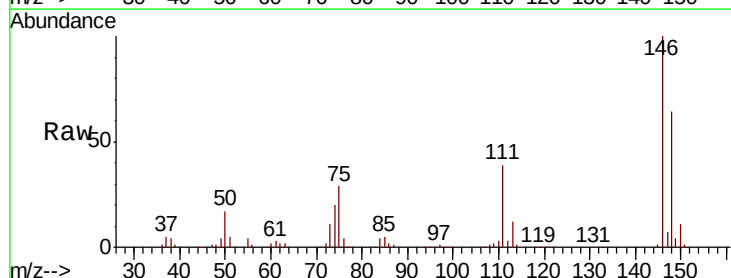
Tgt Ion: 146 Resp: 343422

Ion Ratio Lower Upper

146 100

111 39.2 26.7 49.5

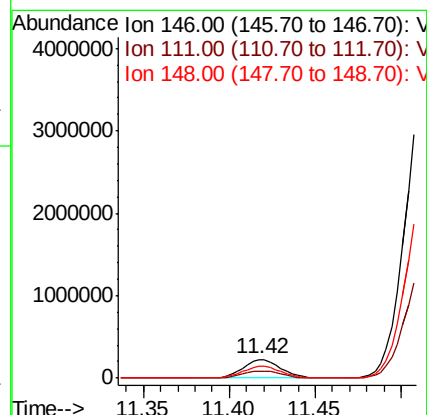
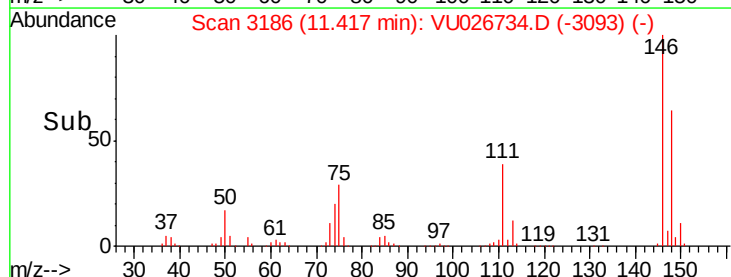
148 63.9 44.2 82.2

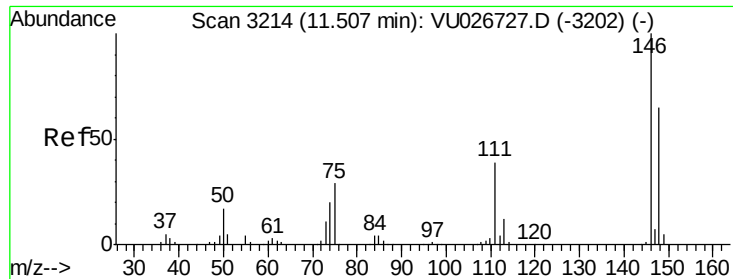


Abundance Ion 146.00 (145.70 to 146.70): VU026734.D (-3093) (-)

Ion 111.00 (110.70 to 111.70): VU026734.D (-3093) (-)

Ion 148.00 (147.70 to 148.70): VU026734.D (-3093) (-)





#63

1,4-Dichlorobenzene

Concen: 1854.733 ug/L

RT: 11.51 min Scan# 3216

Delta R.T. 0.01 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

Instrument :

MSVOA_U

ClientSampleId :

C08K3

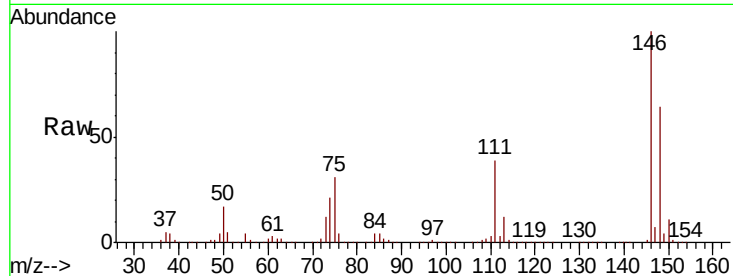
Tgt Ion:146 Resp: 5560996

Ion Ratio Lower Upper

146 100

111 38.6 26.5 49.3

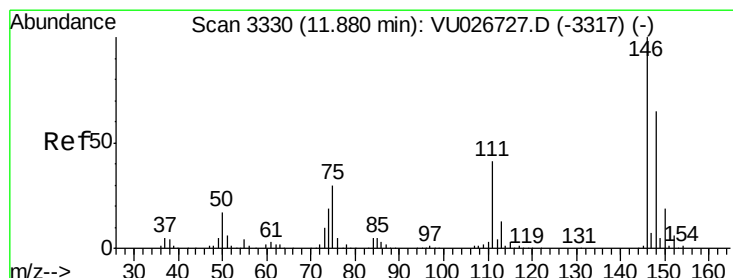
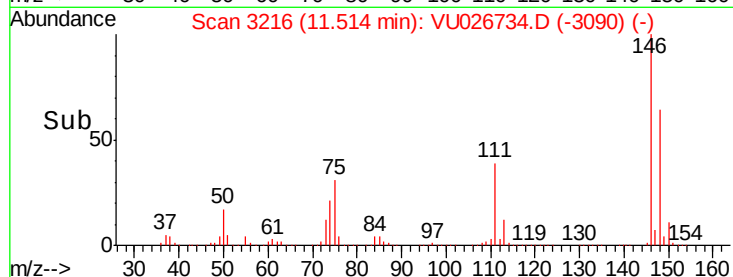
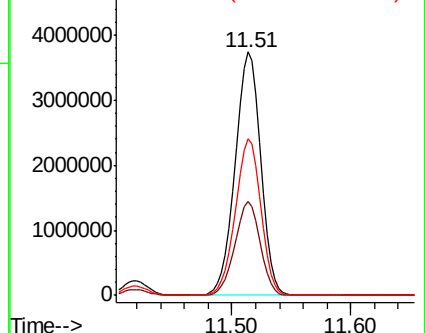
148 64.1 45.2 84.0



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: 500.057 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

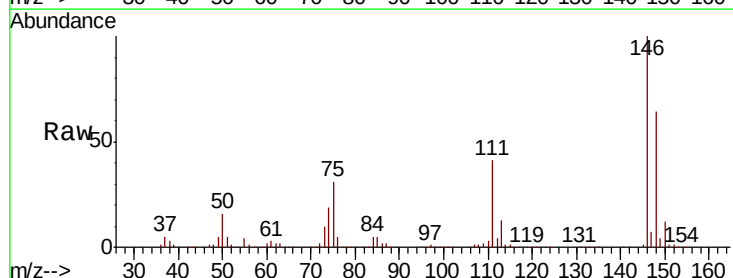
Tgt Ion:146 Resp: 1495792

Ion Ratio Lower Upper

146 100

111 40.7 32.8 49.2

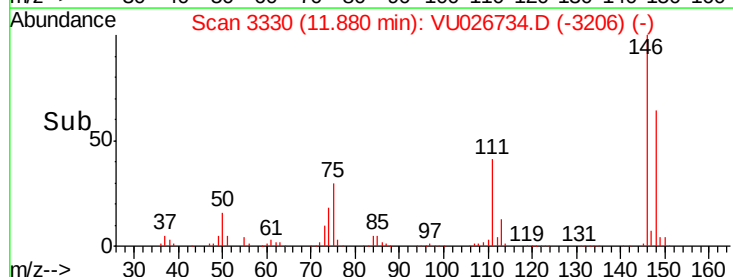
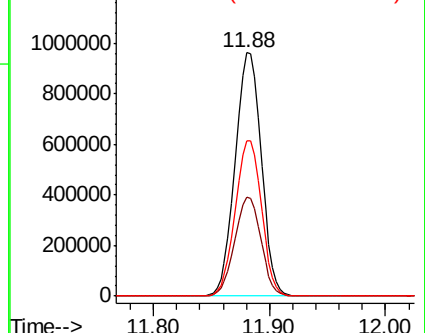
148 63.9 52.2 78.4

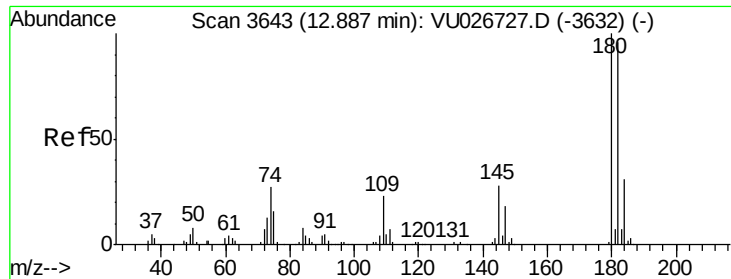


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

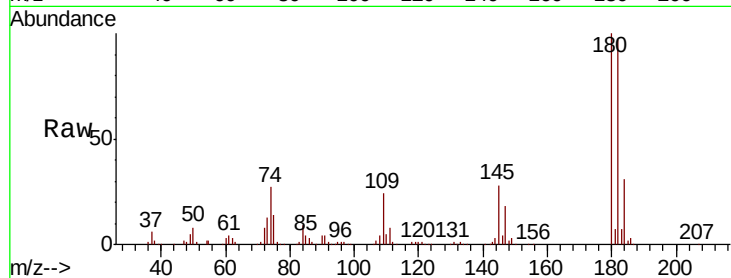




#67
 1,3,5-Trichlorobenzene
 Concen: 136.520 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.62 min
 Lab File: VU026734.D
 Acq: 13 Sep 2018 18:40

Instrument :
 MSVOA_U
 ClientSampleId :
 C08K3

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.8	115.2
184	30.6	24.2	36.2
145	28.0	21.4	32.2



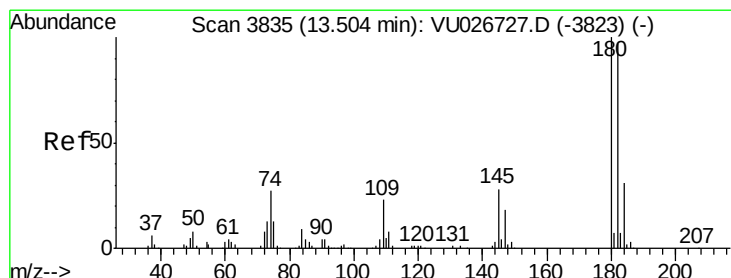
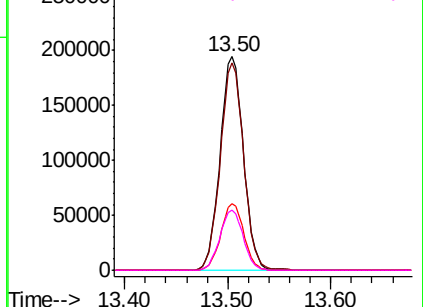
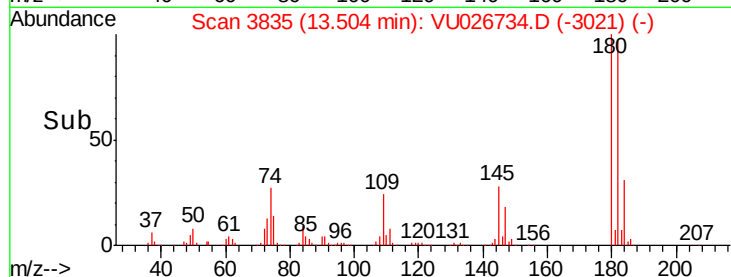
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

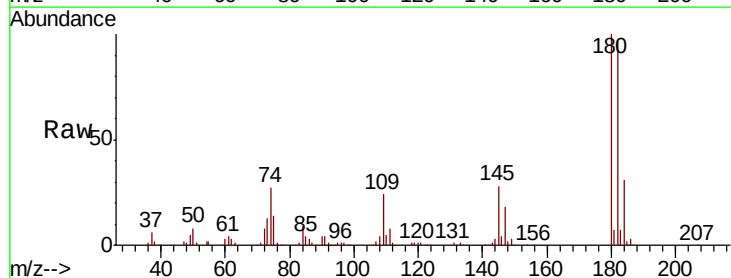
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 157.070 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU026734.D
 Acq: 13 Sep 2018 18:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.0	114.0
145	28.0	23.4	35.0

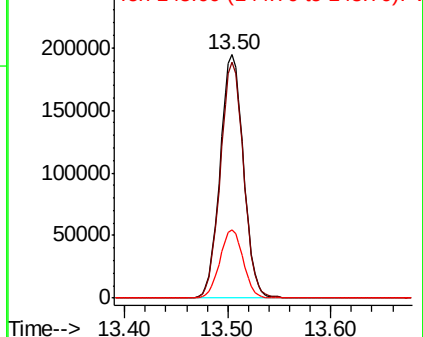
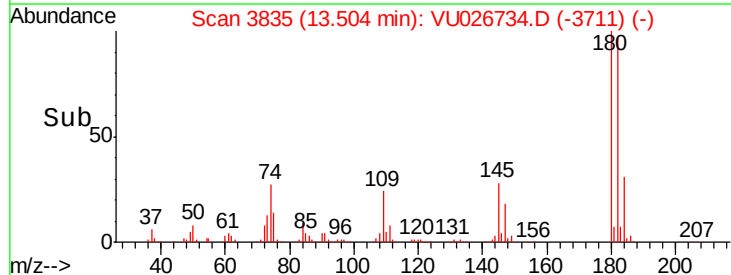


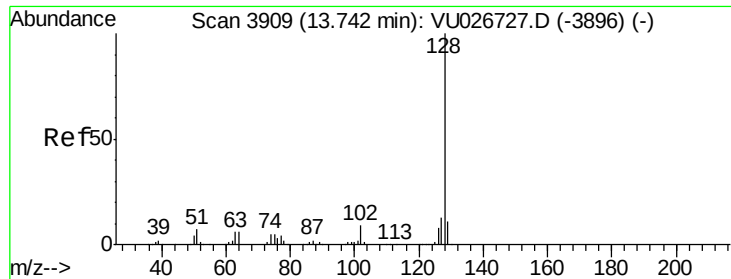
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 0.835 ug/L

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

Instrument :

MSVOA_U

ClientSampleId :

C08K3

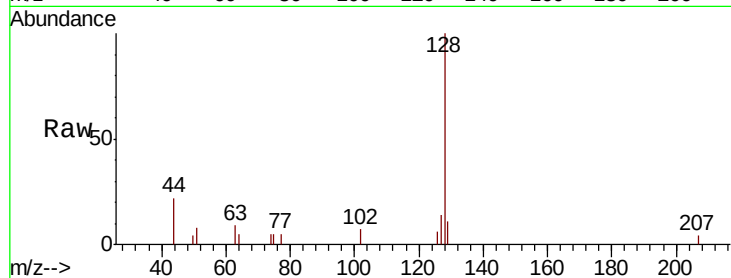
Tgt Ion:128 Resp: 4995

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

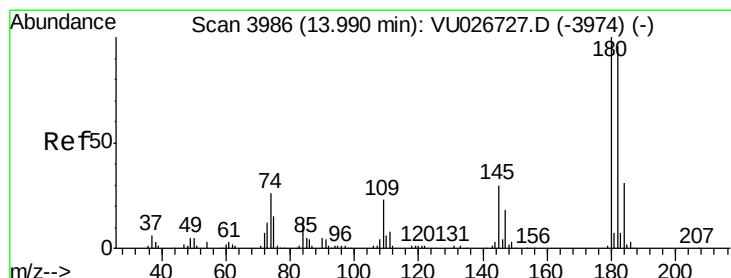
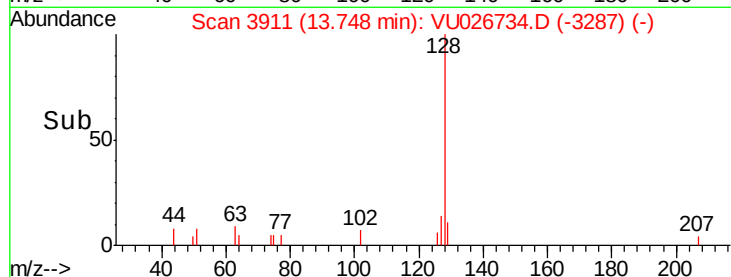
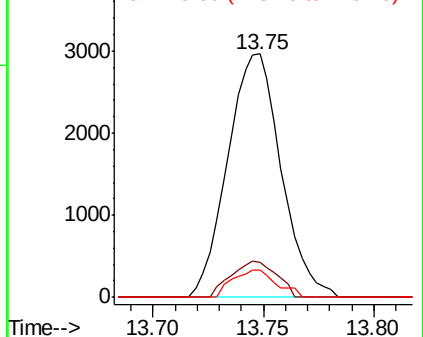
129 8.3 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 28.461 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU026734.D

Acq: 13 Sep 2018 18:40

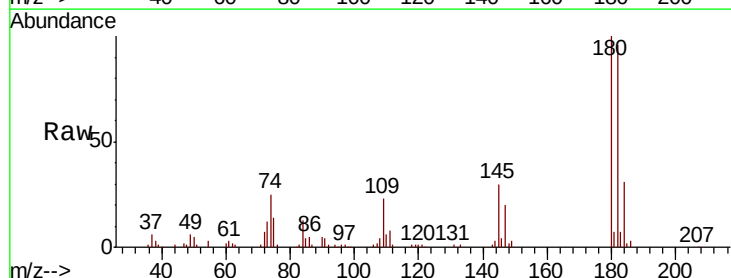
Tgt Ion:180 Resp: 60157

Ion Ratio Lower Upper

180 100

182 96.0 76.7 115.1

145 30.2 23.0 34.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

