

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091618\
 Data File : VU026804.D
 Acq On : 16 Sep 2018 03:14
 Operator : MD/SY
 Sample : J4918-11
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0KY1

Quant Time: Sep 17 07:15:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091618WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 17 07:09:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	107719	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	84628	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	32273	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	40021	5.17	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.40%
7) Chloroethane-d5	1.68	69	35502	5.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	111.20%
11) 1,1-Dichloroethene-d2	2.28	63	71033	4.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.00%
20) 2-Butanone-d5	4.20	46	97829	54.18	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.36%
24) Chloroform-d	4.65	84	71448	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.20%
26) 1,2-Dichloroethane-d4	5.31	65	40024	5.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.20%
32) Benzene-d6	5.34	84	141598	5.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	119.60%
36) 1,2-Dichloropropane-d6	6.33	67	47331	6.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	124.40%
41) Toluene-d8	7.57	98	96495	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
43) trans-1,3-Dichloropropene-	7.85	79	13284	4.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.20%
46) 2-Hexanone-d5	8.32	63	57405	51.51	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.02%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	34451	5.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	115.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	36543	6.10	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	122.00%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl chloride	1.40	62	359	0.030	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	523	0.061	ug/L #	18
12) 1,1-Dichloroethene	2.29	96	37782	4.707	ug/L	95
13) Acetone	2.32	43	2719	1.694	ug/L	98
19) 1,1-Dichloroethane	3.45	63	6261	0.381	ug/L #	95
21) 2-Butanone	4.29	43	18032	6.798	ug/L	96
22) cis-1,2-Dichloroethene	4.23	96	62975	6.607	ug/L	100
25) Chloroform	4.68	83	2082	0.131	ug/L	98
29) 1,1,1-Trichloroethane	4.91	97	12474	1.024	ug/L	98
31) Carbon tetrachloride	4.91	117	1582	0.148	ug/L	95
34) Trichloroethene	6.18	95	572657	70.943	ug/L	99
35) Methylcyclohexane	6.33	83	11651	0.888	ug/L #	16
37) 1,2-Dichloropropane	6.33	63	4980	0.592	ug/L #	87
39) cis-1,3-Dichloropropene	7.23	75	914	0.081	ug/L #	79
42) Toluene	7.64	91	1054	0.033	ug/L	91
45) 1,1,2-Trichloroethane	8.08	97	522	0.092	ug/L #	70
48) 2-Hexanone	8.37	43	1260	0.360	ug/L #	39

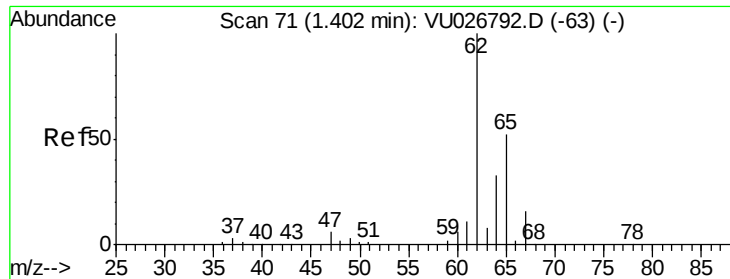
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091618\
Data File : VU026804.D
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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Sep 17 07:09:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.48	75	3951	0.799	ug/L	94
62) 1,3-Dichlorobenzene	11.51	146	587	0.050	ug/L	95
69) Naphthalene	13.75	128	10459	0.917	ug/L	97

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



#5

Vinyl chloride

Concen: 0.030 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Instrument :

MSVOA_U

ClientSampleId :

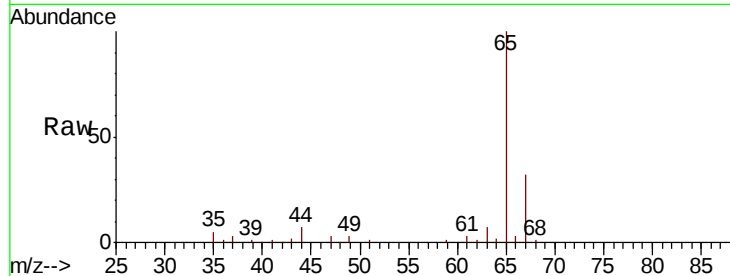
C0KY1

Tgt Ion: 62 Resp: 359

Ion Ratio Lower Upper

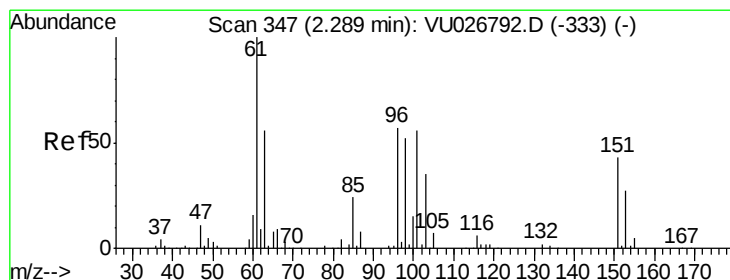
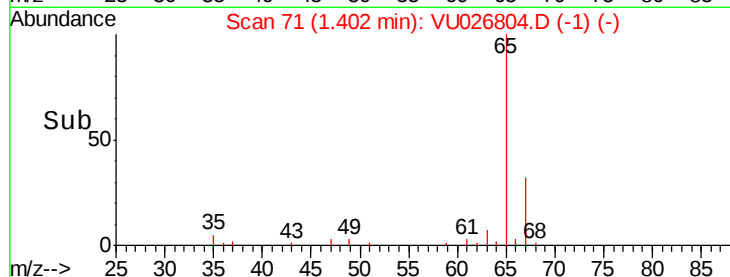
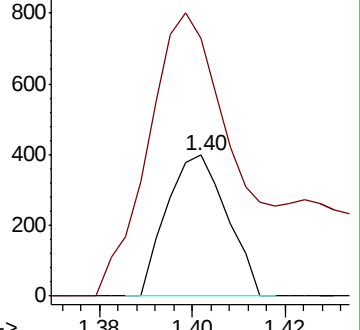
62 100

64 183.0 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#10

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

Concen: 0.061 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

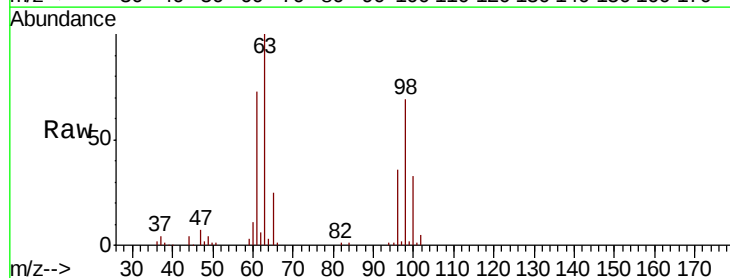
Tgt Ion: 101 Resp: 523

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

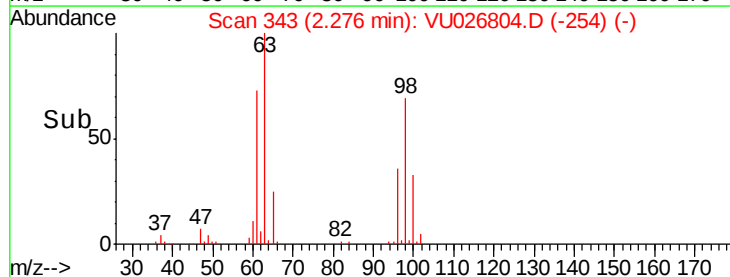
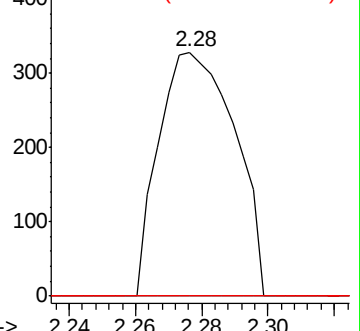
151 0.0 63.3 94.9#

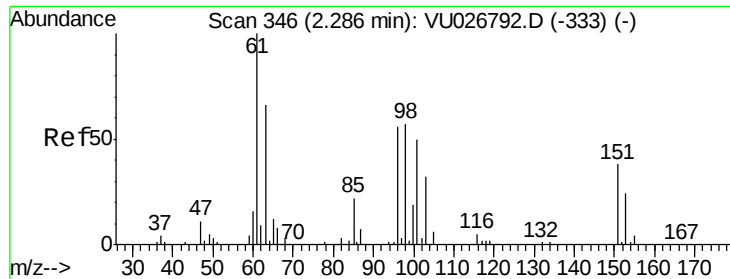


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 4.707 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Instrument :

MSVOA_U

ClientSampleId :

C0KY1

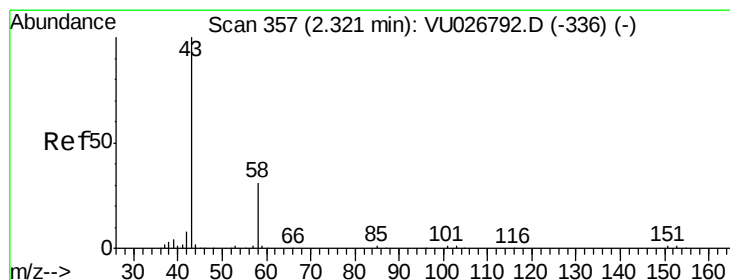
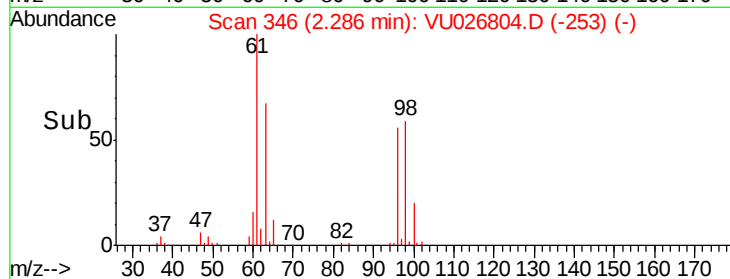
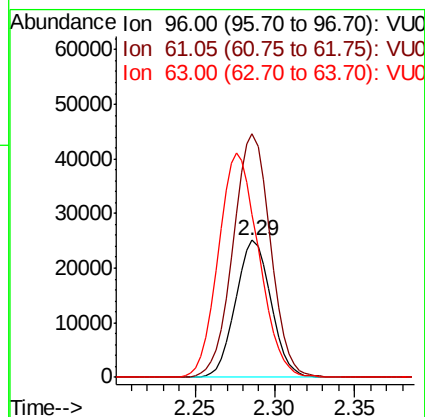
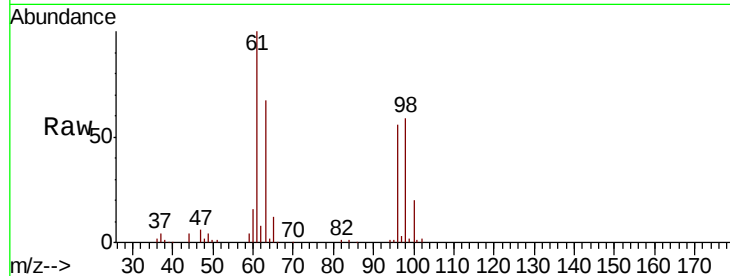
Tgt Ion: 96 Resp: 37782

Ion Ratio Lower Upper

96 100

61 177.7 126.6 235.2

63 119.2 91.3 169.5



#13

Acetone

Concen: 1.694 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.03 min

Lab File: VU026804.D

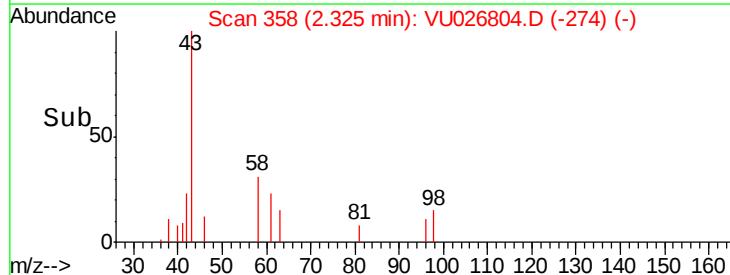
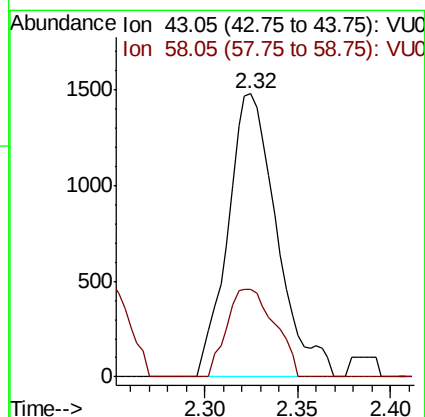
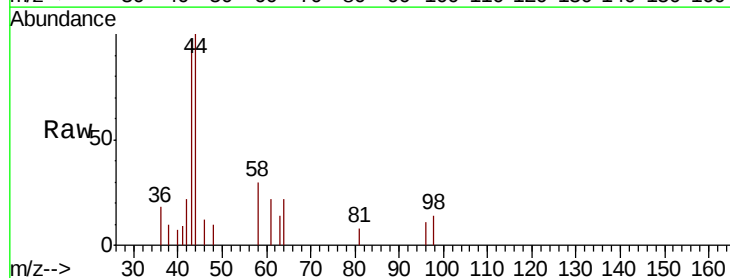
Acq: 16 Sep 2018 03:14

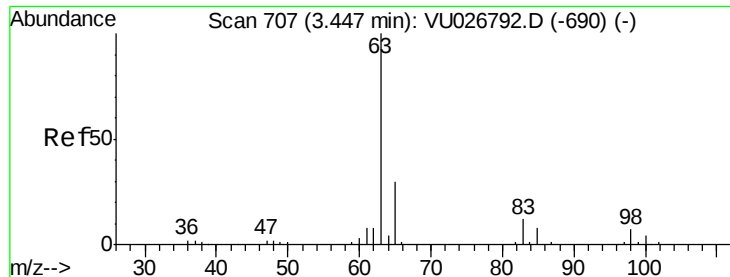
Tgt Ion: 43 Resp: 2719

Ion Ratio Lower Upper

43 100

58 30.2 0.0 63.0





#19

1,1-Dichloroethane

Concen: 0.381 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Instrument :

MSVOA_U

ClientSampleId :

C0KY1

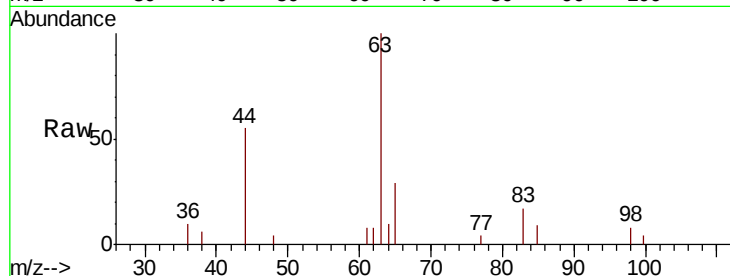
Tgt Ion: 63 Resp: 6261

Ion Ratio Lower Upper

63 100

65 29.2 21.7 40.3

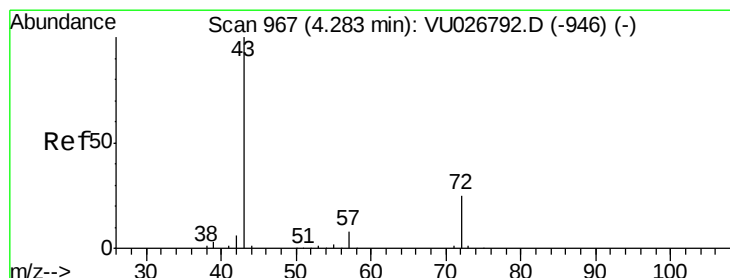
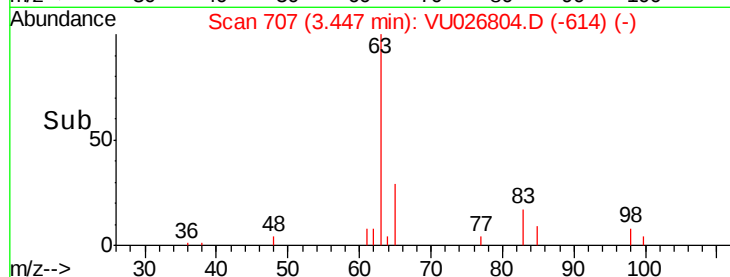
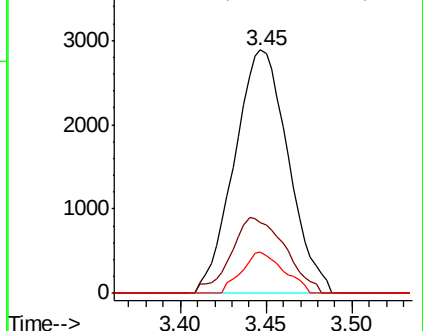
83 17.0 9.0 16.6#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 6.798 ug/L

RT: 4.29 min Scan# 968

Delta R.T. -0.02 min

Lab File: VU026804.D

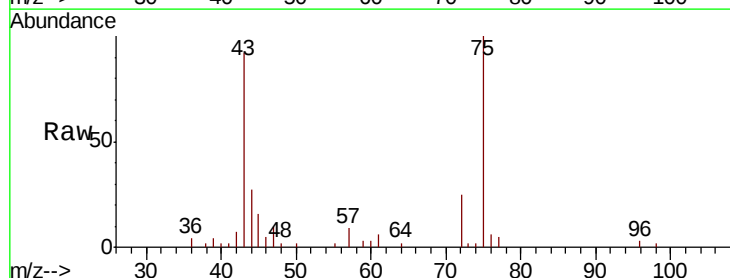
Acq: 16 Sep 2018 03:14

Tgt Ion: 43 Resp: 18032

Ion Ratio Lower Upper

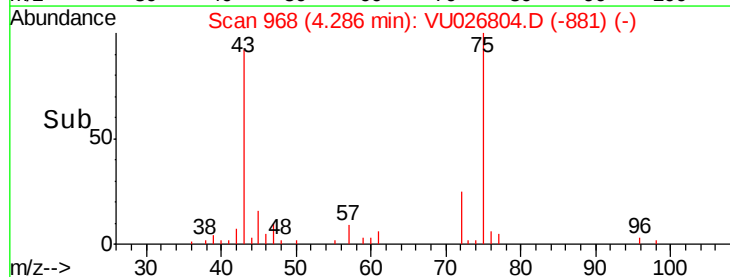
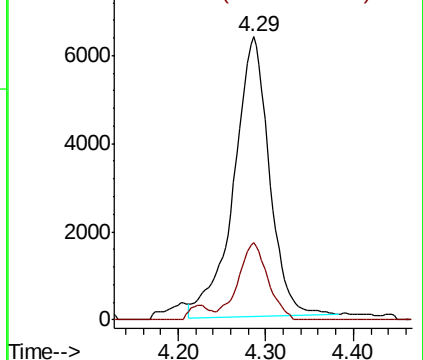
43 100

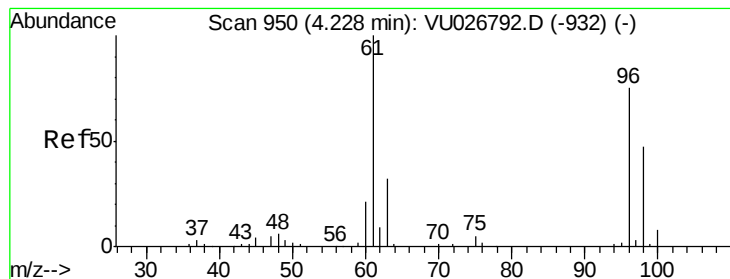
72 23.1 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



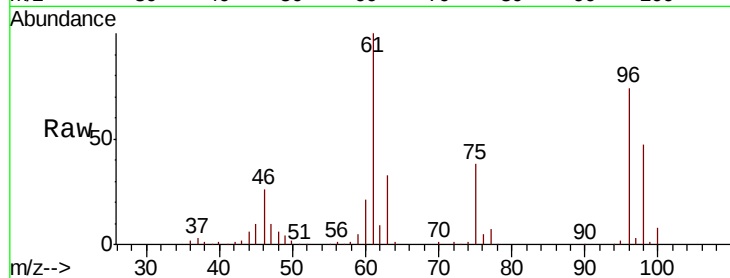


#22

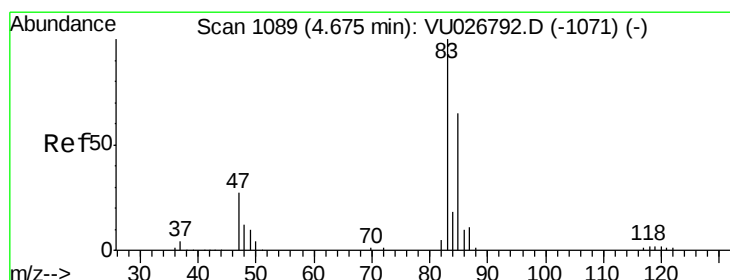
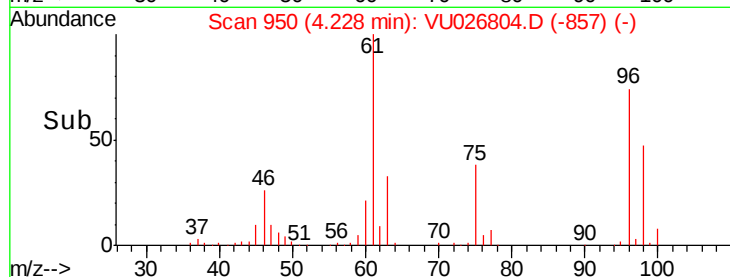
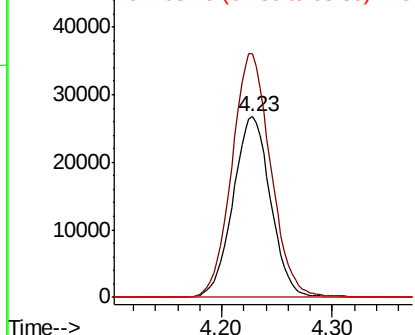
cis-1,2-Dichloroethene
Concen: 6.607 ug/L
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU026804.D
Acq: 16 Sep 2018 03:14

Instrument :
MSVOA_U
ClientSampleId :
C0KY1

Tgt Ion: 96 Resp: 62975
Ion Ratio Lower Upper
96 100
61 134.6 94.4 175.2
68 0.0 0.0 0.0



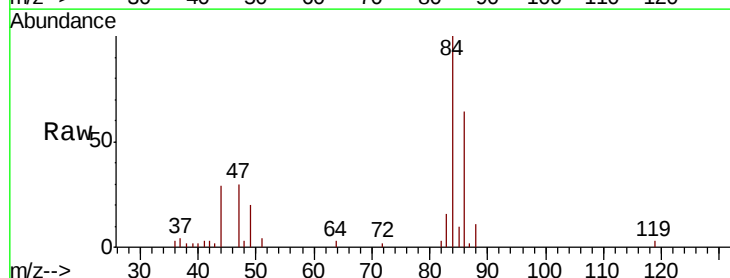
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



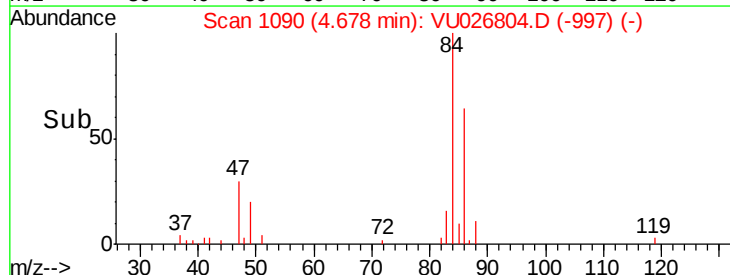
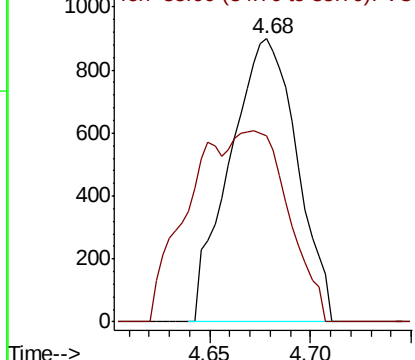
#25

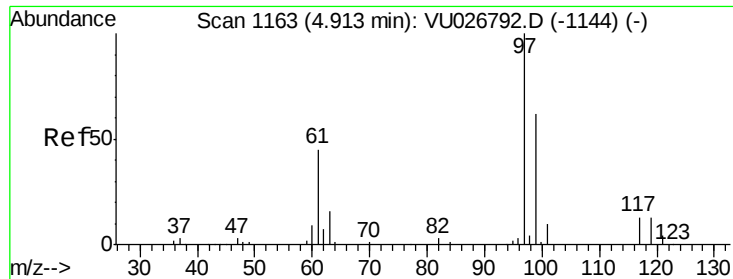
Chloroform
Concen: 0.131 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU026804.D
Acq: 16 Sep 2018 03:14

Tgt Ion: 83 Resp: 2082
Ion Ratio Lower Upper
83 100
85 65.9 44.8 83.2



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

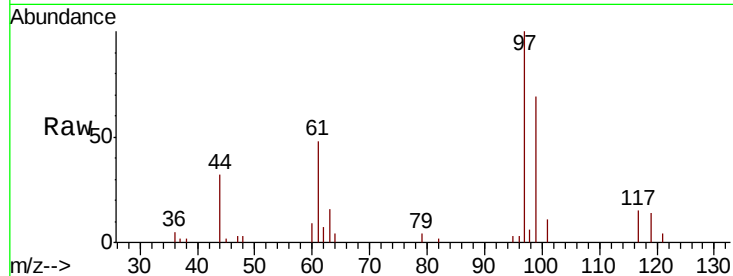




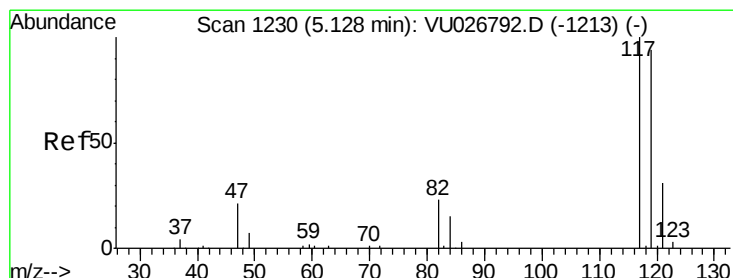
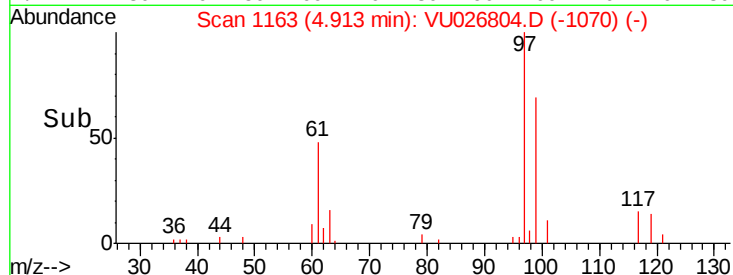
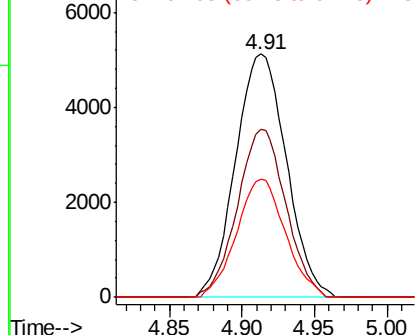
#29
 1,1,1-Trichloroethane
 Concen: 1.024 ug/L
 RT: 4.91 min Scan# 1163
 Delta R.T. 0.00 min
 Lab File: VU026804.D
 Acq: 16 Sep 2018 03:14

Instrument :
 MSVOA_U
 ClientSampleId :
 C0KY1

Tgt Ion: 97 Resp: 12474
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.5 77.3
 61 46.7 36.6 54.8

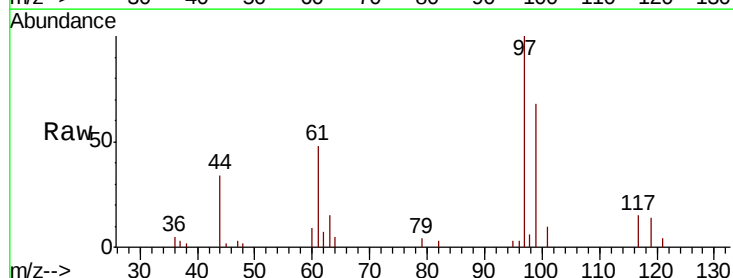


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

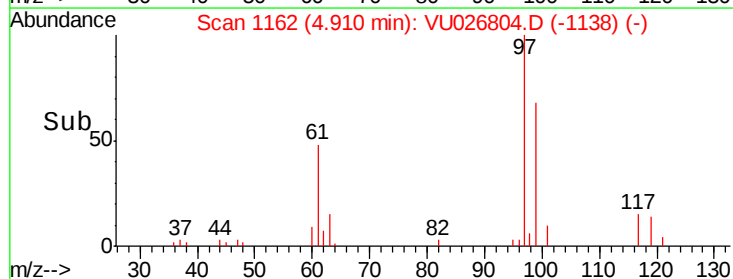
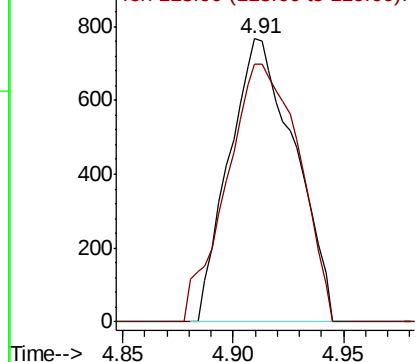


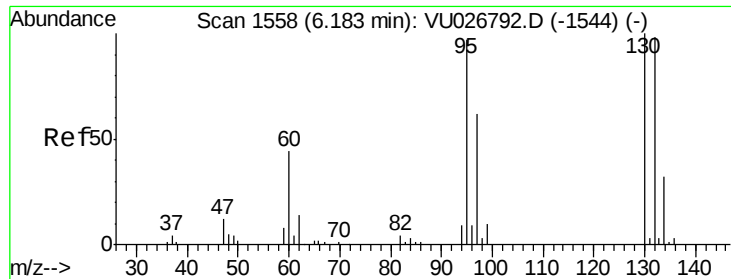
#31
 Carbon tetrachloride
 Concen: 0.148 ug/L
 RT: 4.91 min Scan# 1162
 Delta R.T. -0.22 min
 Lab File: VU026804.D
 Acq: 16 Sep 2018 03:14

Tgt Ion: 117 Resp: 1582
 Ion Ratio Lower Upper
 117 100
 119 100.5 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V





#34

Trichloroethene

Concen: 70.943 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Instrument :

MSVOA_U

ClientSampled :

C0KY1

Tgt Ion: 95 Resp: 572657

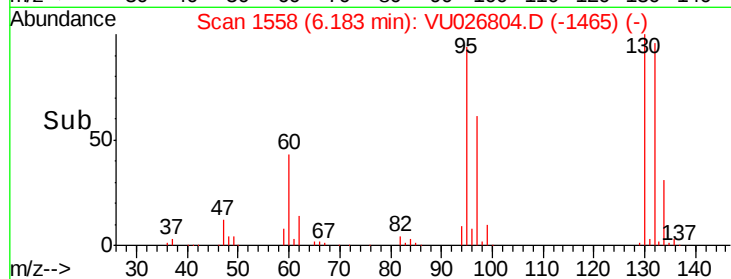
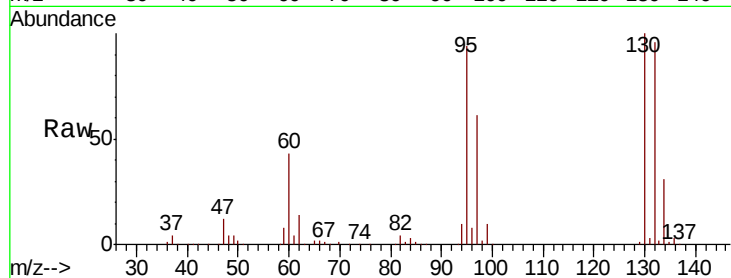
Ion Ratio Lower Upper

95 100

97 65.0 45.1 83.9

132 101.7 72.0 133.8

130 105.9 73.1 135.7

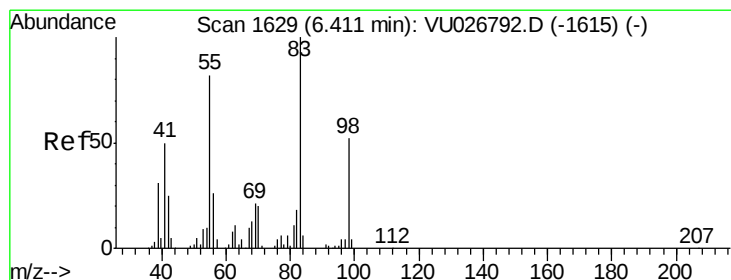
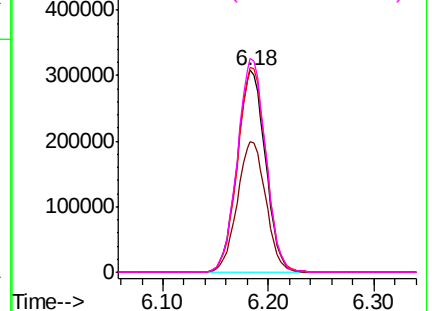


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.888 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

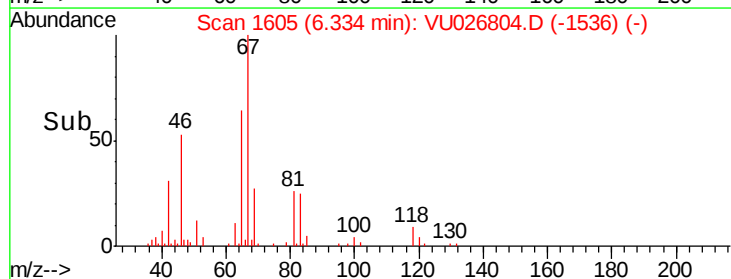
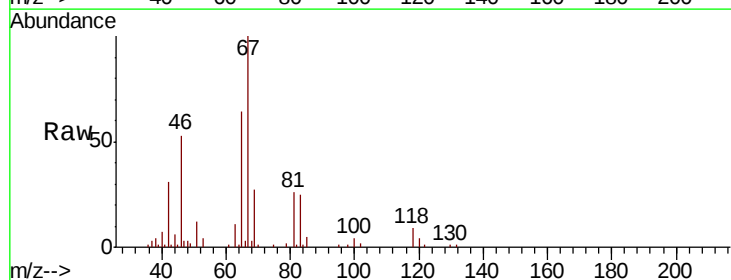
Tgt Ion: 83 Resp: 11651

Ion Ratio Lower Upper

83 100

55 0.0 64.9 97.3#

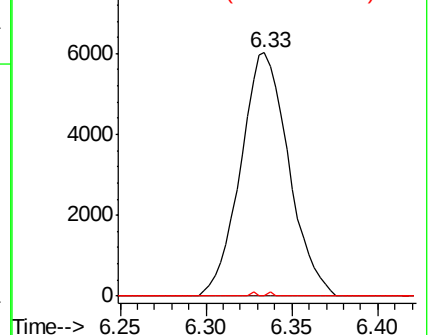
98 0.0 39.3 58.9#

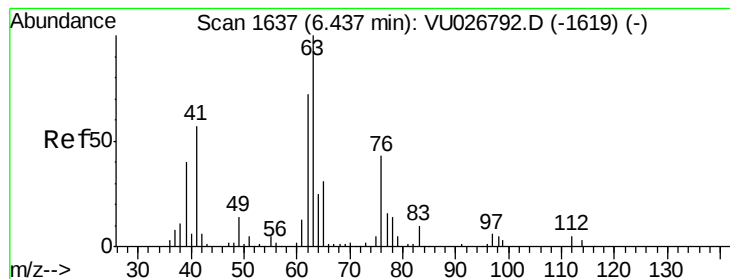


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.592 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Instrument :

MSVOA_U

ClientSampleId :

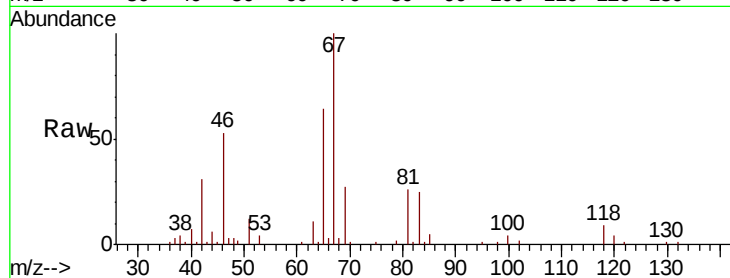
C0KY1

Tgt Ion: 63 Resp: 4980

Ion Ratio Lower Upper

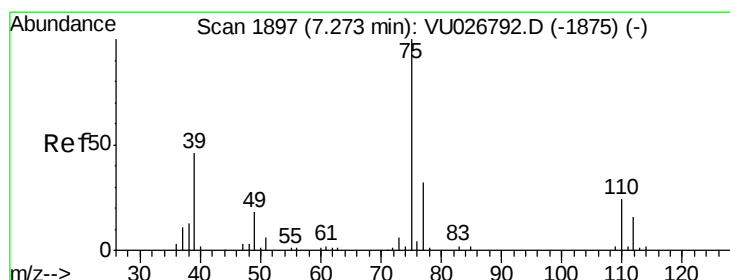
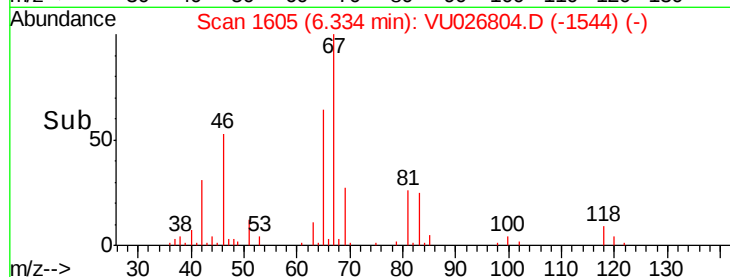
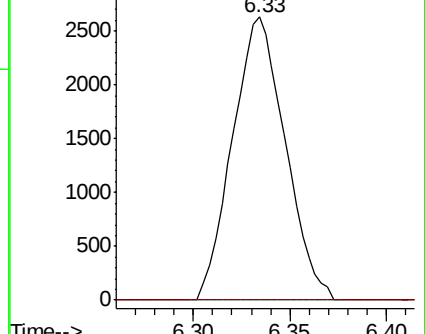
63 100

112 0.0 3.4 5.2#



Abundance Ion 63.10 (62.80 to 63.80): VU026792.D (-1619) (-)

Ion 112.10 (111.80 to 112.80): VU026792.D (-1619) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 7.23 min Scan# 1883

Delta R.T. -0.04 min

Lab File: VU026804.D

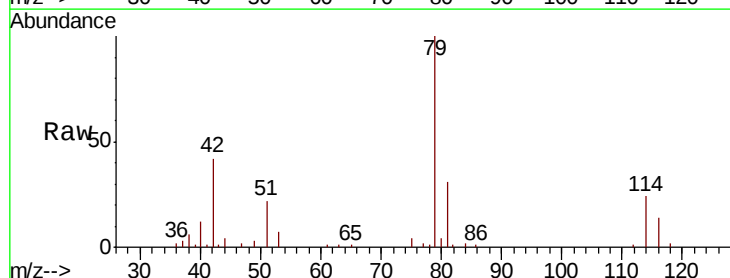
Acq: 16 Sep 2018 03:14

Tgt Ion: 75 Resp: 914

Ion Ratio Lower Upper

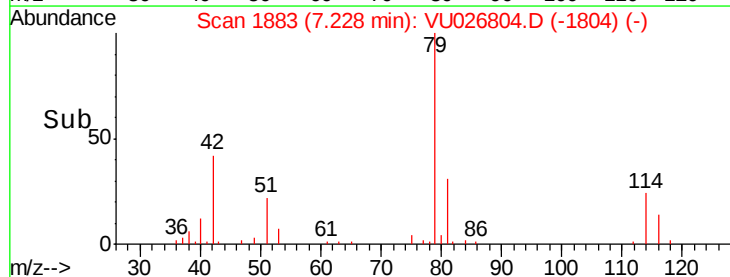
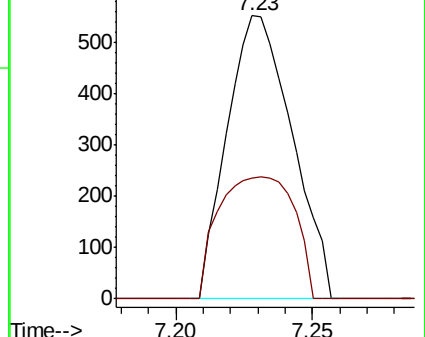
75 100

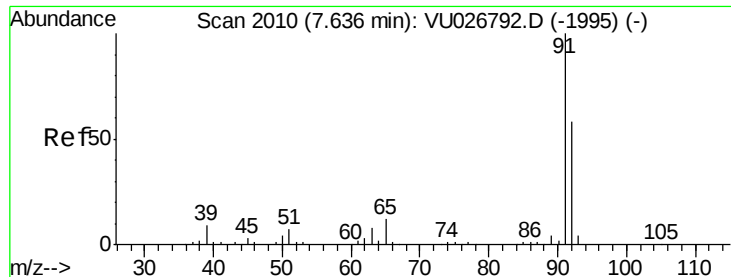
77 42.8 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU026792.D (-1875) (-)

Ion 77.05 (76.75 to 77.75): VU026792.D (-1875) (-)





#42

Toluene

Concen: 0.033 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Instrument :

MSVOA_U

ClientSampleId :

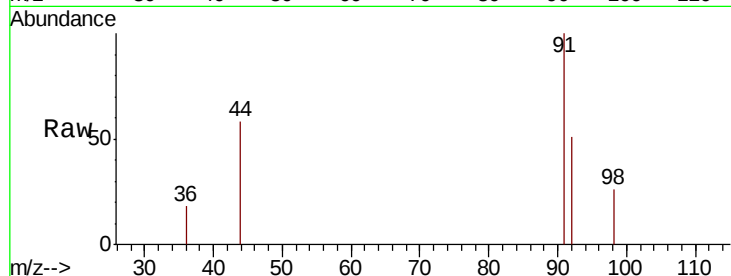
C0KY1

Tgt Ion: 91 Resp: 1054

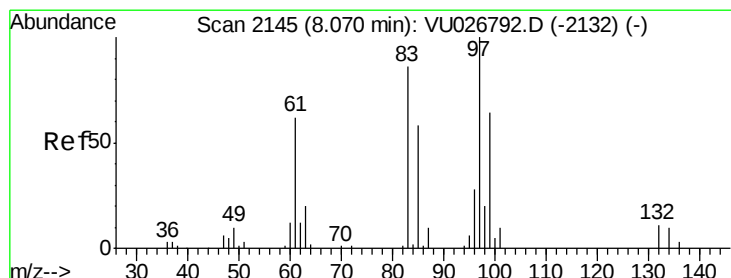
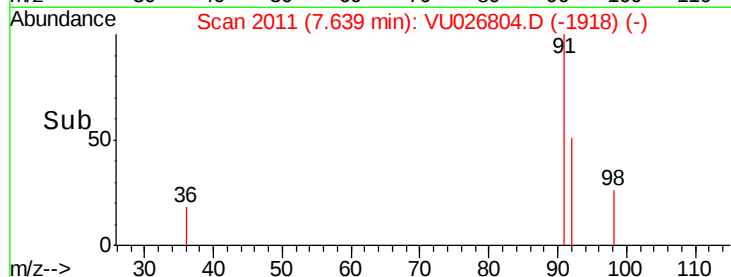
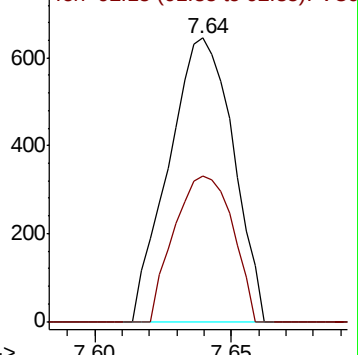
Ion Ratio Lower Upper

91 100

92 51.5 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VU026792.D (-1995) (-)



#45

1,1,2-Trichloroethane

Concen: 0.092 ug/L

RT: 8.08 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Tgt Ion: 97 Resp: 522

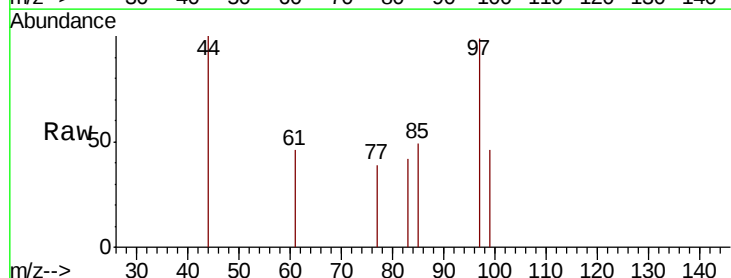
Ion Ratio Lower Upper

97 100

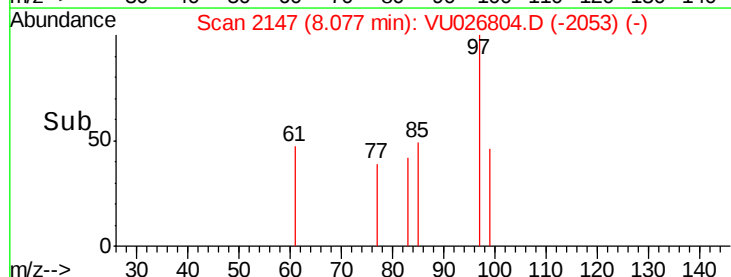
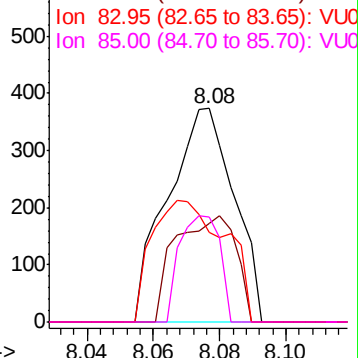
99 46.3 45.0 83.6

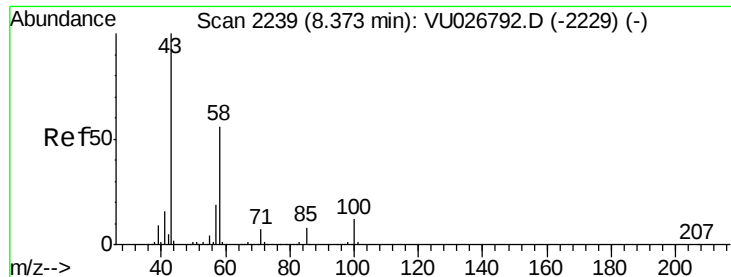
83 42.2 60.8 112.8#

85 48.9 38.1 70.9



Abundance Ion 96.95 (96.65 to 97.65): VU026792.D (-2132) (-)

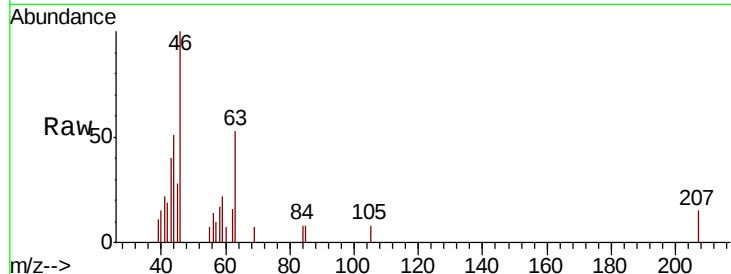




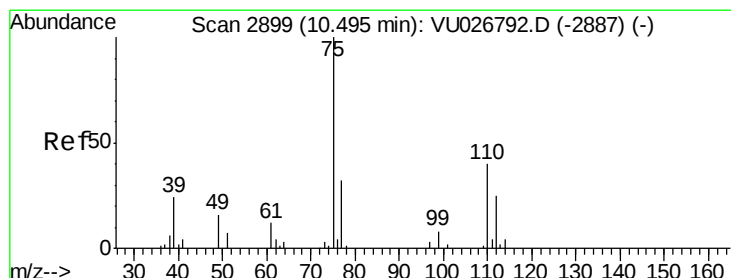
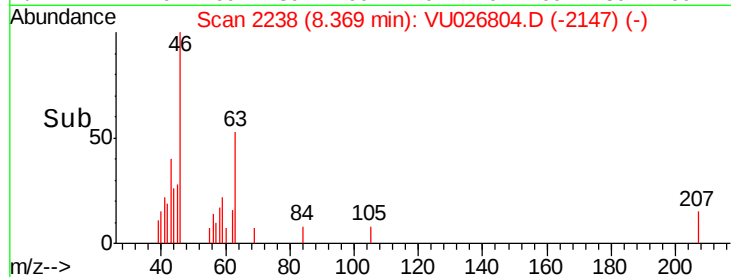
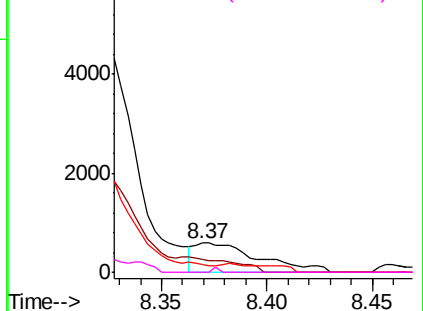
#48
 2-Hexanone
 Concen: 0.360 ug/L
 RT: 8.37 min Scan# 2238
 Delta R.T. -0.01 min
 Lab File: VU026804.D
 Acq: 16 Sep 2018 03:14

Instrument :
 MSVOA_U
 ClientSampleId :
 C0KY1

Tgt Ion: 43 Resp: 1260
 Ion Ratio Lower Upper
 43 100
 58 0.0 43.7 65.5#
 57 0.0 15.2 22.8#
 100 1.5 10.1 15.1#

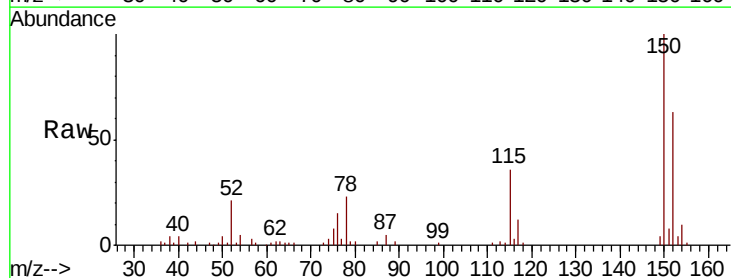


Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0
 Ion 57.20 (56.90 to 57.90): VU0
 Ion 100.15 (99.85 to 100.85): VU0

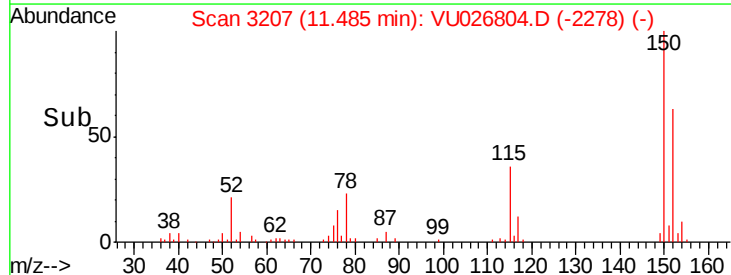
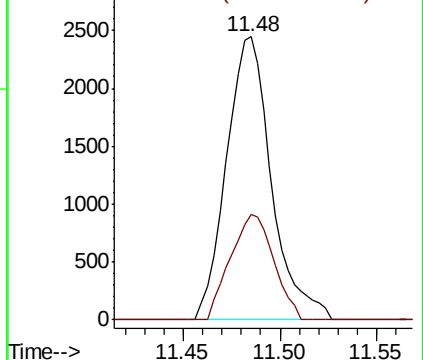


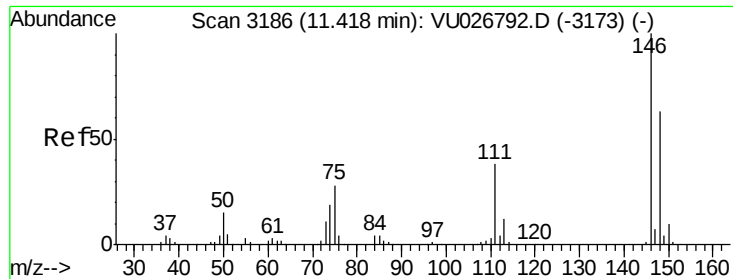
#59
 1,2,3-Trichloropropane
 Concen: 0.799 ug/L
 RT: 11.48 min Scan# 3207
 Delta R.T. 0.99 min
 Lab File: VU026804.D
 Acq: 16 Sep 2018 03:14

Tgt Ion: 75 Resp: 3951
 Ion Ratio Lower Upper
 75 100
 77 35.8 25.9 38.9



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





#62

1,3-Dichlorobenzene

Concen: 0.050 ug/L

RT: 11.51 min Scan# 3215

Delta R.T. 0.09 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

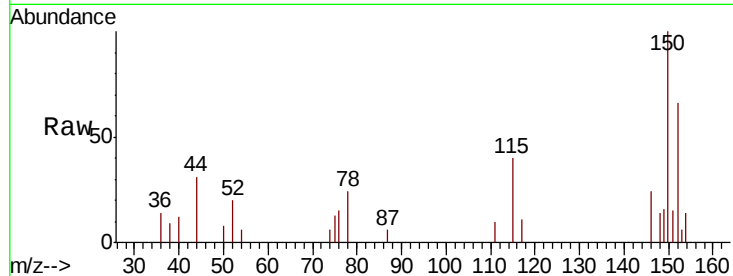
Instrument :

MSVOA_U

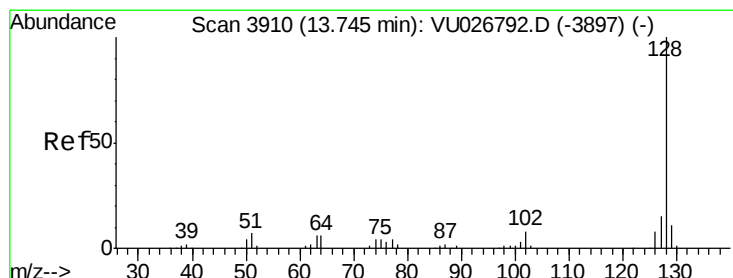
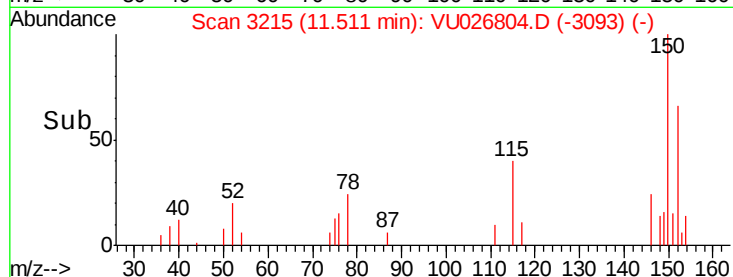
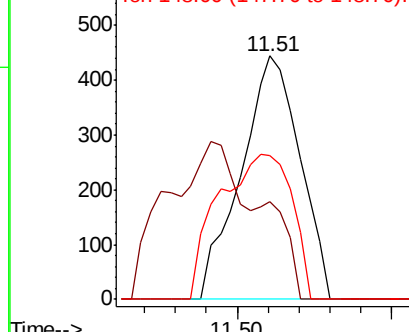
ClientSampleId :

C0KY1

Tgt Ion:	146	Resp:	587
Ion	Ratio	Lower	Upper
146	100		
111	40.3	26.2	48.6
148	59.0	44.4	82.4



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 0.917 ug/L

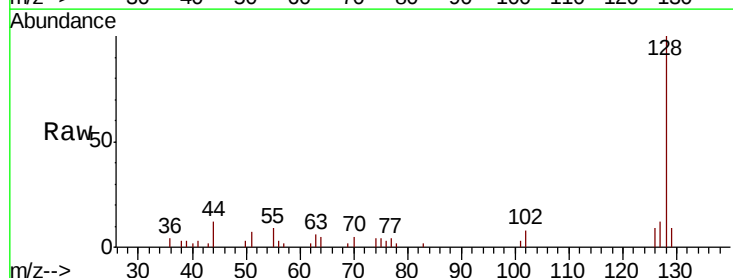
RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU026804.D

Acq: 16 Sep 2018 03:14

Tgt Ion:	128	Resp:	10459
Ion	Ratio	Lower	Upper
128	100		
129	9.5	8.6	12.8
127	12.4	10.8	16.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

