

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091618\
 Data File : VU026807.D
 Acq On : 16 Sep 2018 04:48
 Operator : MD/SY
 Sample : J4918-14
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0KY4

Quant Time: Sep 17 07:15:41 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	109125	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	87582	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	34011	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	38367	4.89	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.80%
7) Chloroethane-d5	1.68	69	33570	5.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.80%
11) 1,1-Dichloroethene-d2	2.28	63	59214	3.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.20%
20) 2-Butanone-d5	4.20	46	93669	51.20	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.40%
24) Chloroform-d	4.65	84	68938	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.00%
26) 1,2-Dichloroethane-d4	5.31	65	38267	5.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.80%
32) Benzene-d6	5.34	84	136992	5.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.80%
36) 1,2-Dichloropropane-d6	6.33	67	45539	5.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	115.60%
41) Toluene-d8	7.57	98	98568	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.00%
43) trans-1,3-Dichloropropene-	7.85	79	13063	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.32	63	55974	48.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.06%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	34212	5.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	35969	5.70	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.00%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	494	0.057 ug/L #	18
12) 1,1-Dichloroethene	2.29	96	19747	2.428 ug/L	90
13) Acetone	2.33	43	2393	1.471 ug/L	87
15) Methyl Acetate	2.46	43	8961	2.100 ug/L #	52
19) 1,1-Dichloroethane	3.45	63	1358	0.081 ug/L #	70
22) cis-1,2-Dichloroethene	4.23	96	15948	1.652 ug/L	95
25) Chloroform	4.67	83	1295	0.081 ug/L	97
27) 1,2-Dichloroethane	5.34	62	725	0.070 ug/L #	73
29) 1,1,1-Trichloroethane	4.92	97	4613	0.366 ug/L	96
31) Carbon tetrachloride	4.91	117	572	0.052 ug/L	84
34) Trichloroethene	6.18	95	317402	37.995 ug/L	98
35) Methylcyclohexane	6.34	83	10513	0.774 ug/L #	16
37) 1,2-Dichloropropane	6.33	63	5014	0.576 ug/L #	87
39) cis-1,3-Dichloropropene	7.23	75	780	0.067 ug/L #	69
42) Toluene	7.64	91	1175	0.035 ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	260	0.044 ug/L #	45
48) 2-Hexanone	8.32	43	7864	2.169 ug/L #	78

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ALS Vial : 41 Sample Multiplier: 1

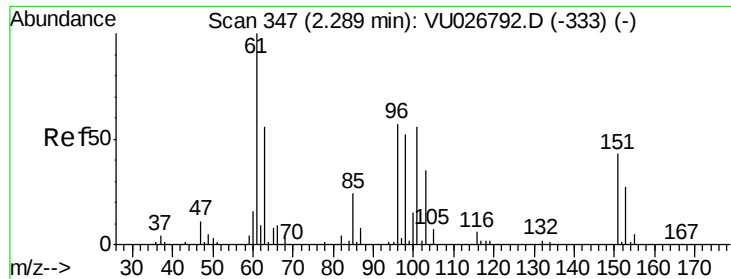
Instrument :
MSVOA_U
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091618WMA.M
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QLast Update : Mon Sep 17 07:09:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.48	75	3763	0.735	ug/L	92
69) Naphthalene	13.75	128	4114	0.342	ug/L	96

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

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Misc      : 25.0mL/MSVOA_U/WATER
ALS Vial  : 41      Sample Multiplier: 1
```



#10

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

Concen: 0.057 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

Instrument :

MSVOA_U

ClientSampleId :

C0KY4

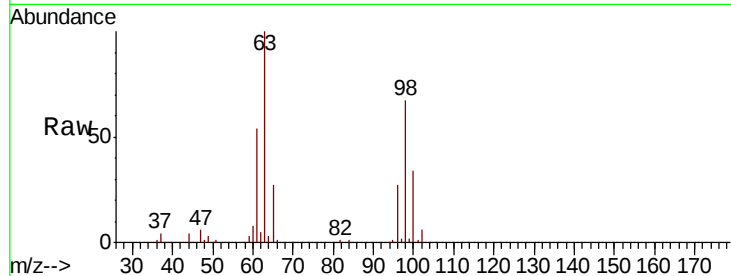
Tgt Ion: 101 Resp: 494

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

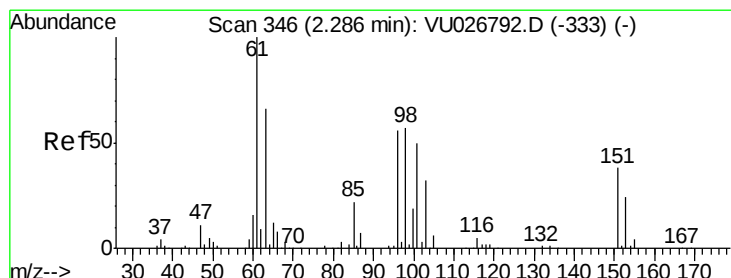
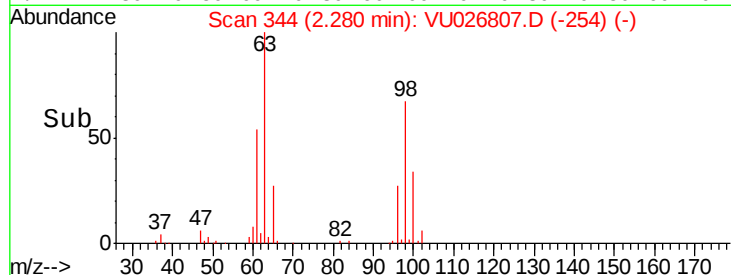
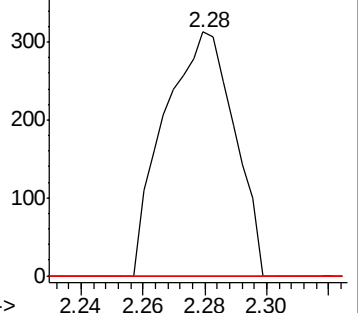
151 0.0 63.3 94.9#



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: 2.428 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

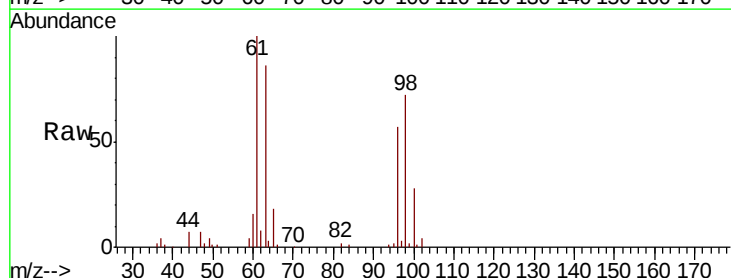
Tgt Ion: 96 Resp: 19747

Ion Ratio Lower Upper

96 100

61 174.2 126.6 235.2

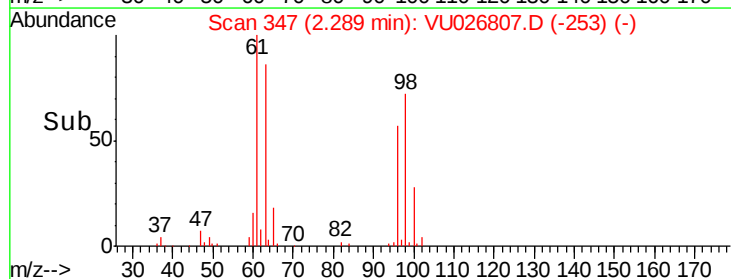
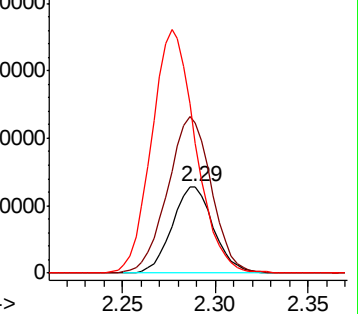
63 149.8 91.3 169.5

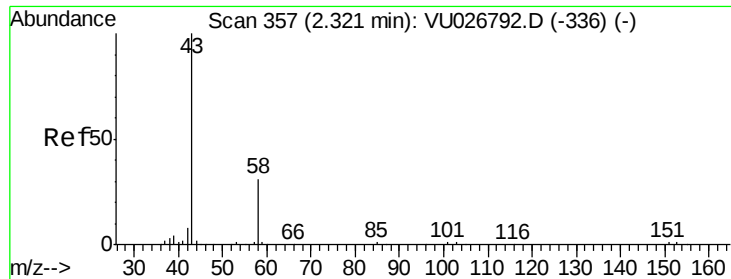


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.471 ug/L

RT: 2.33 min Scan# 359

Delta R.T. -0.03 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

Instrument :

MSVOA_U

ClientSampleId :

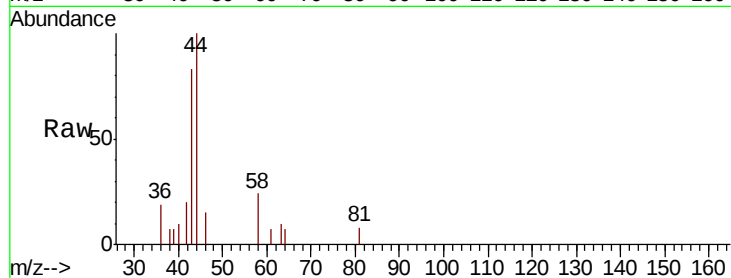
C0KY4

Tgt Ion: 43 Resp: 2393

Ion Ratio Lower Upper

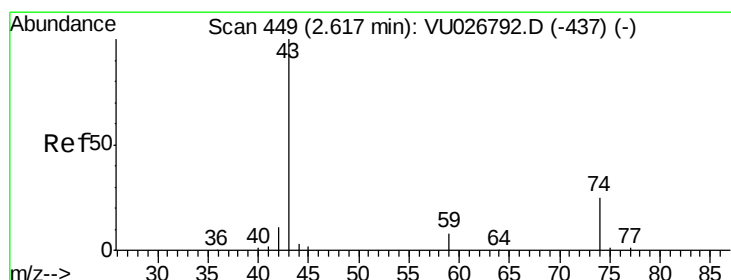
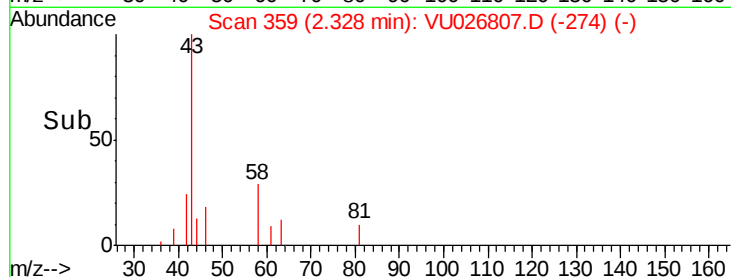
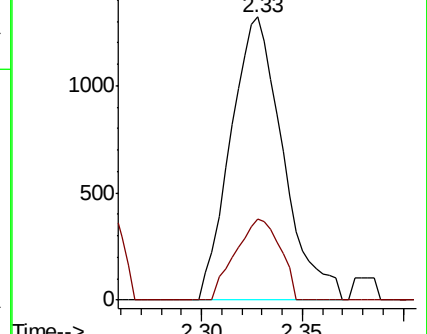
43 100

58 24.5 0.0 63.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#15

Methyl Acetate

Concen: 2.100 ug/L

RT: 2.46 min Scan# 400

Delta R.T. -0.17 min

Lab File: VU026807.D

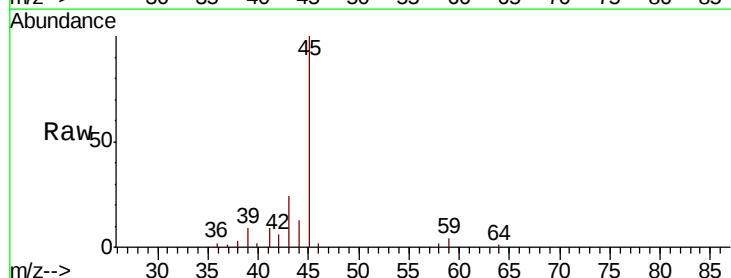
Acq: 16 Sep 2018 04:48

Tgt Ion: 43 Resp: 8961

Ion Ratio Lower Upper

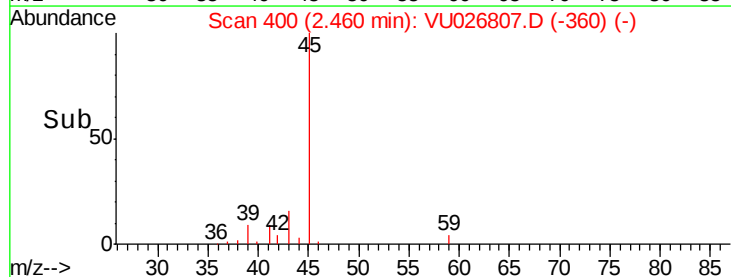
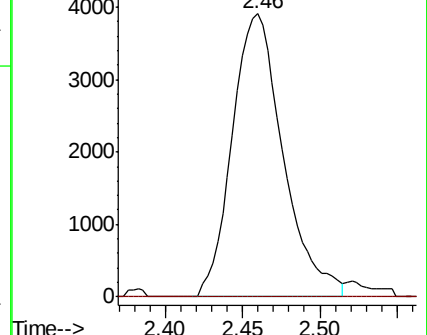
43 100

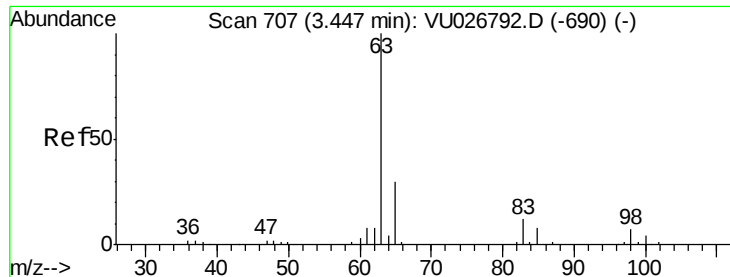
74 0.0 18.5 27.7#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

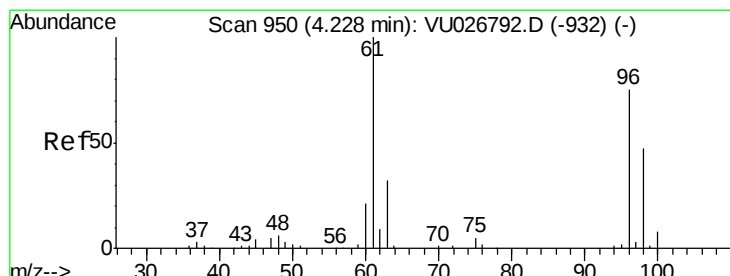
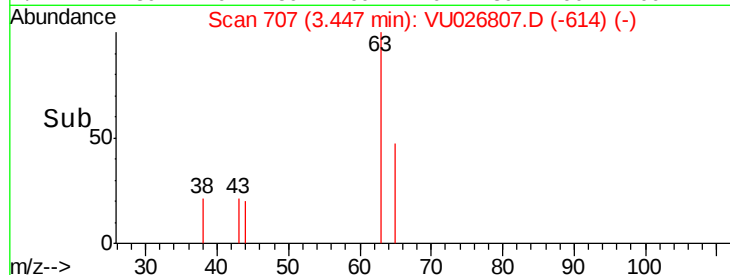
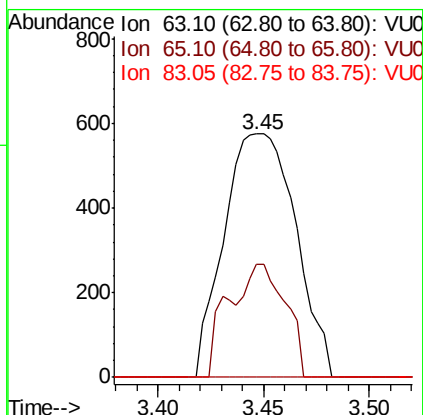
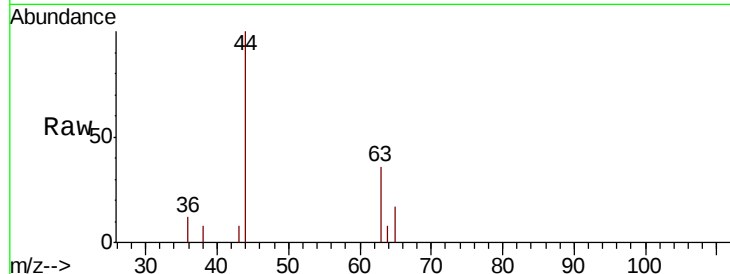




#19
 1,1-Dichloroethane
 Concen: 0.081 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

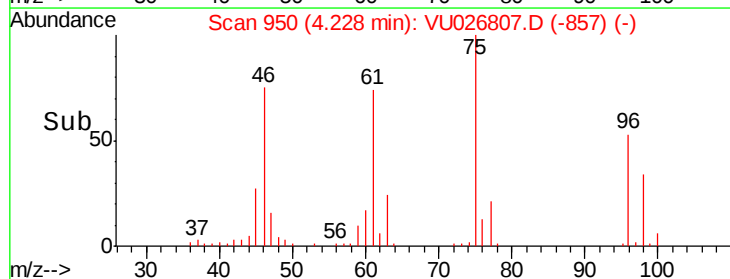
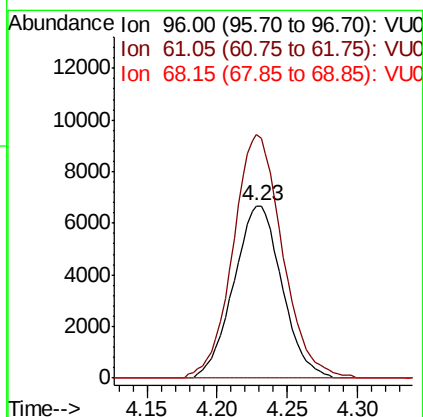
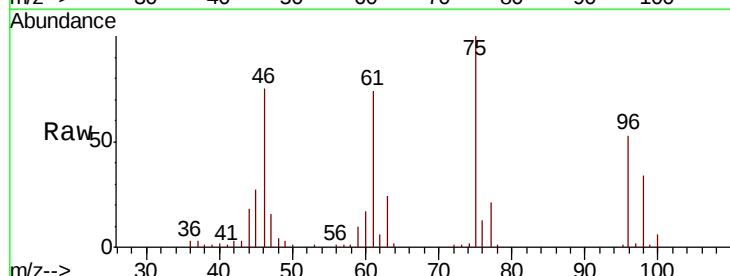
Instrument :
 MSVOA_U
 ClientSampleId :
 C0KY4

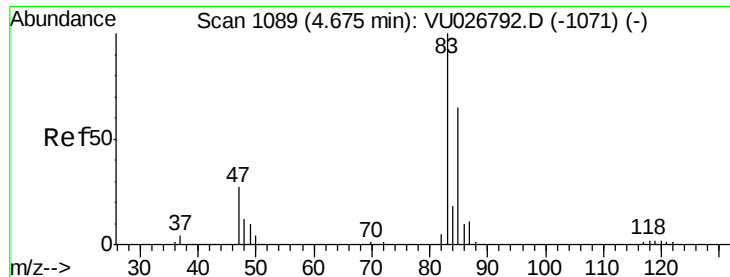
Tgt Ion: 63 Resp: 1358
 Ion Ratio Lower Upper
 63 100
 65 46.6 21.7 40.3#
 83 0.0 9.0 16.6#



#22
 cis-1,2-Dichloroethene
 Concen: 1.652 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

Tgt Ion: 96 Resp: 15948
 Ion Ratio Lower Upper
 96 100
 61 141.1 94.4 175.2
 68 0.0 0.0 0.0

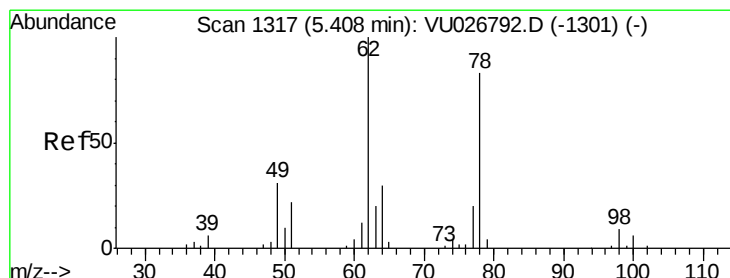
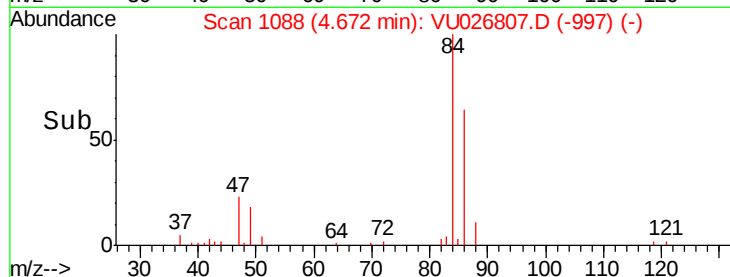
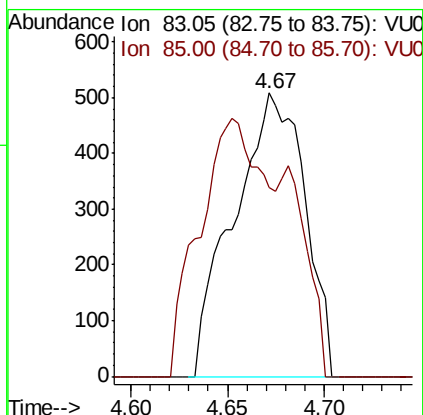
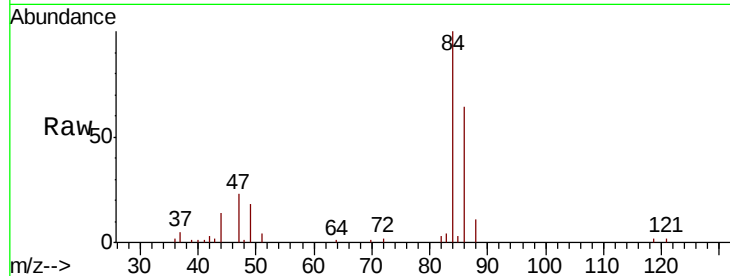




#25
Chloroform
Concen: 0.081 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VU026807.D
Acq: 16 Sep 2018 04:48

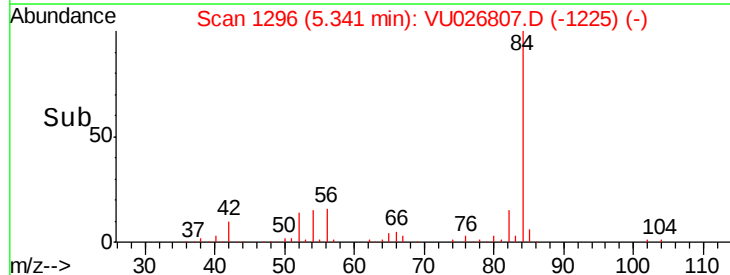
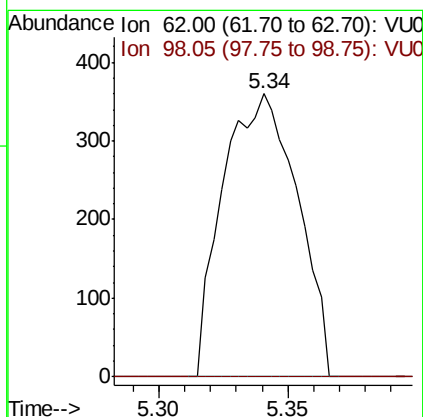
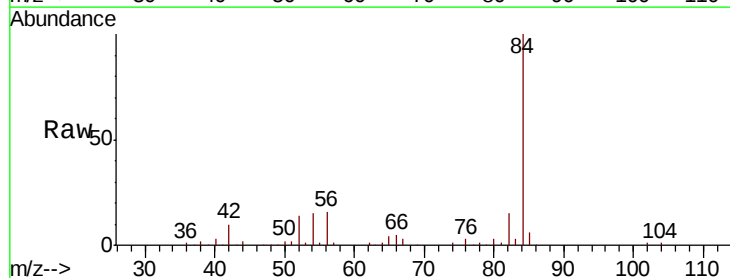
Instrument :
MSVOA_U
ClientSampleId :
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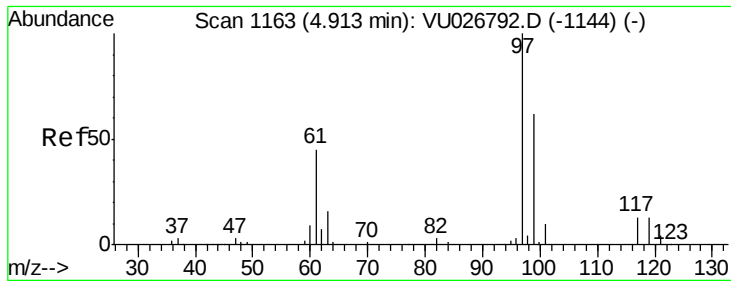
Tgt Ion: 83 Resp: 1295
Ion Ratio Lower Upper
83 100
85 66.7 44.8 83.2



#27
1,2-Dichloroethane
Concen: 0.070 ug/L
RT: 5.34 min Scan# 1296
Delta R.T. -0.07 min
Lab File: VU026807.D
Acq: 16 Sep 2018 04:48

Tgt Ion: 62 Resp: 725
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#

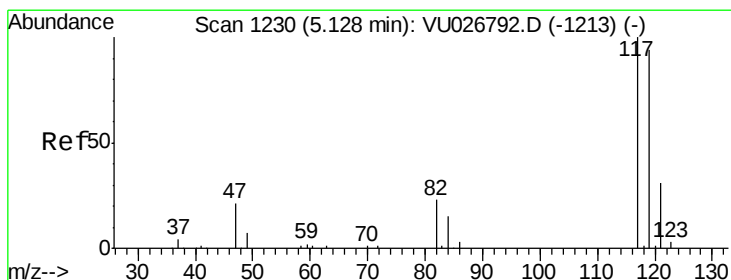
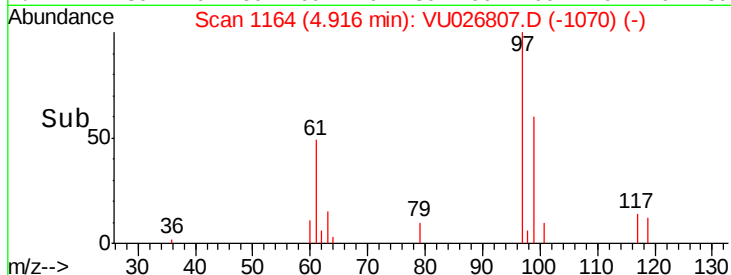
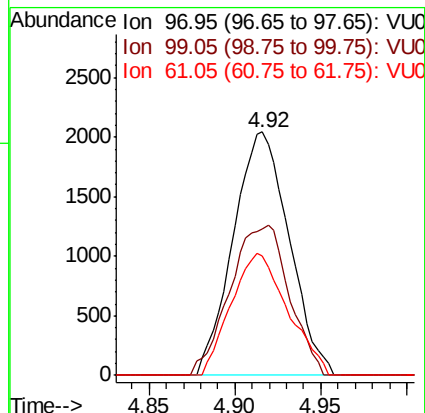
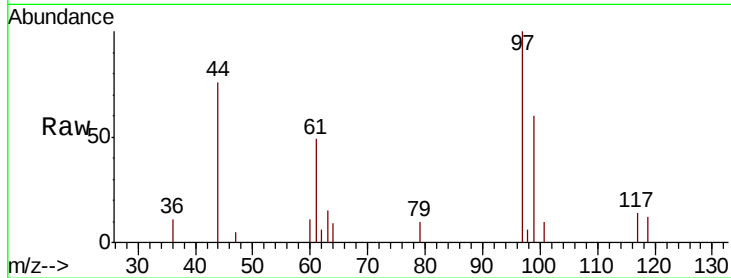




#29
 1,1,1-Trichloroethane
 Concen: 0.366 ug/L
 RT: 4.92 min Scan# 1164
 Delta R.T. 0.00 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

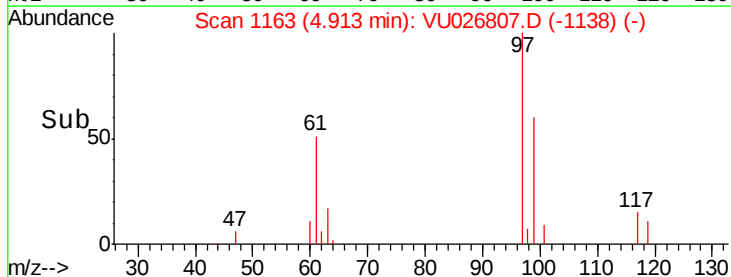
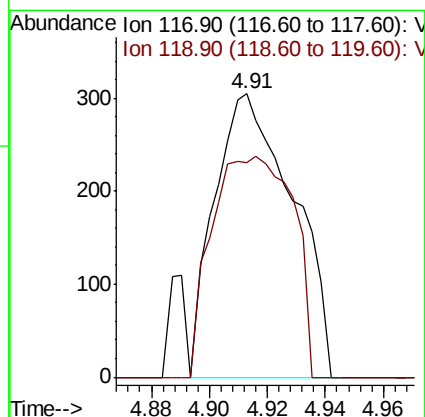
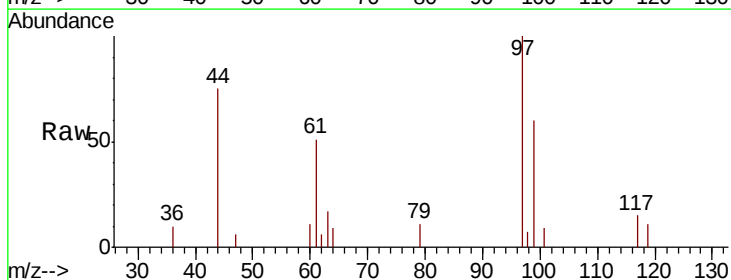
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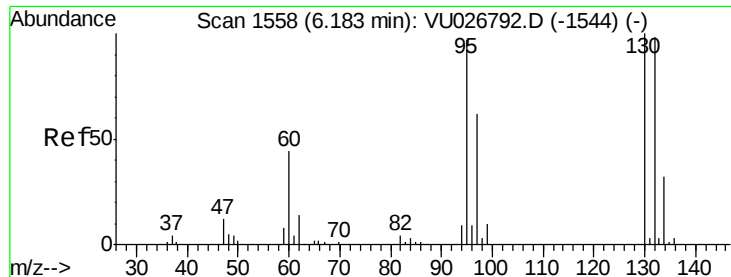
Tgt Ion: 97 Resp: 4613
 Ion Ratio Lower Upper
 97 100
 99 65.3 51.5 77.3
 61 50.6 36.6 54.8



#31
 Carbon tetrachloride
 Concen: 0.052 ug/L
 RT: 4.91 min Scan# 1163
 Delta R.T. -0.22 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

Tgt Ion: 117 Resp: 572
 Ion Ratio Lower Upper
 117 100
 119 80.8 76.9 115.3





#34

Trichloroethene

Concen: 37.995 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

Instrument :

MSVOA_U

ClientSampled :

C0KY4

Tgt Ion: 95 Resp: 317402

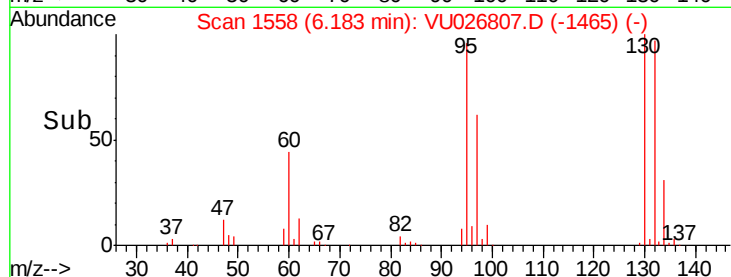
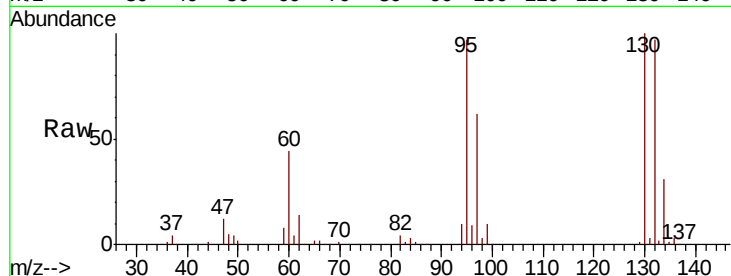
Ion Ratio Lower Upper

95 100

97 64.2 45.1 83.9

132 100.0 72.0 133.8

130 103.4 73.1 135.7

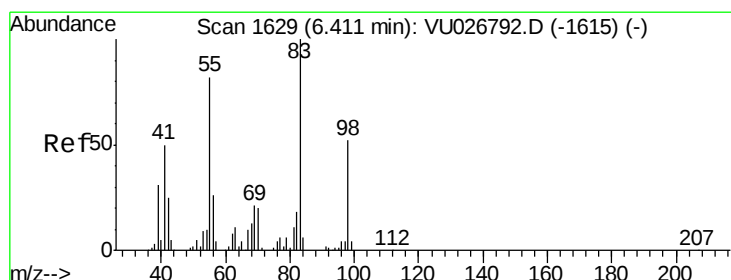
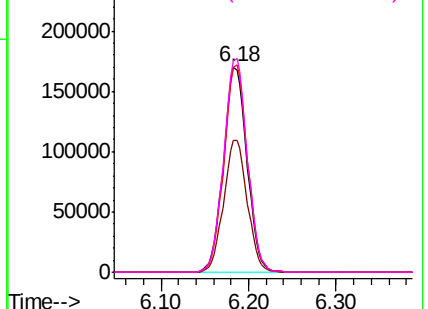


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.774 ug/L

RT: 6.34 min Scan# 1606

Delta R.T. -0.07 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

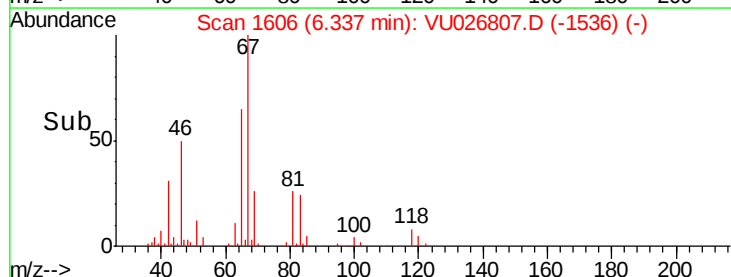
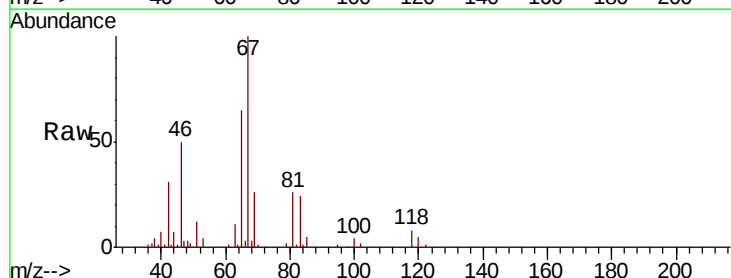
Tgt Ion: 83 Resp: 10513

Ion Ratio Lower Upper

83 100

55 0.0 64.9 97.3#

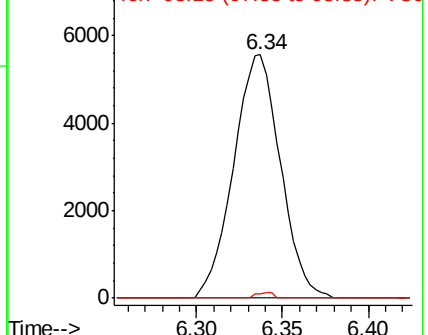
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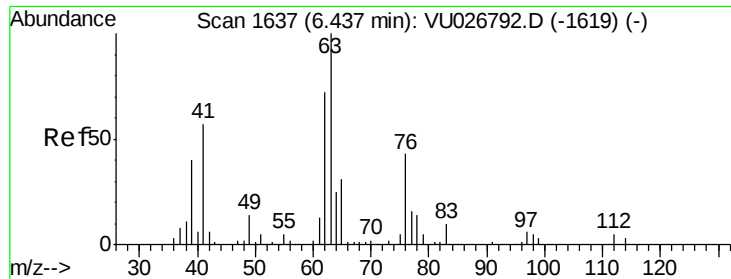


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

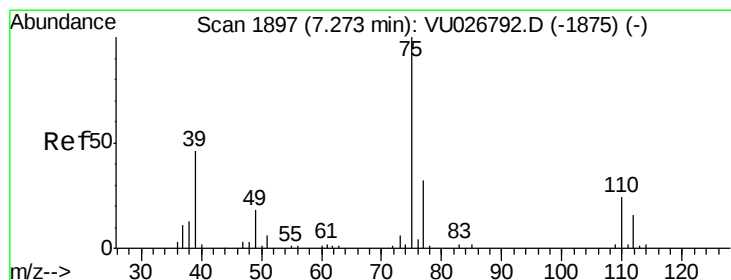
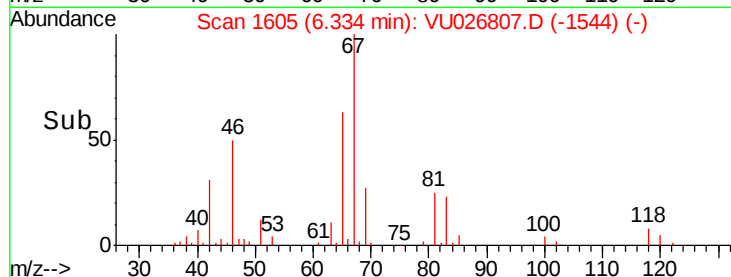
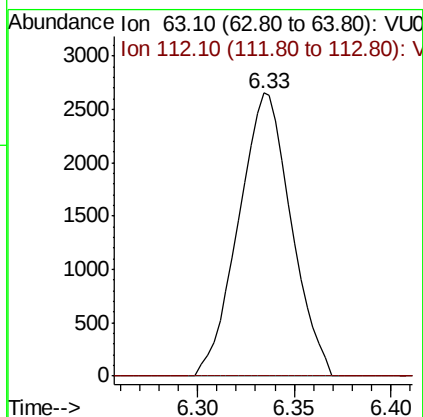
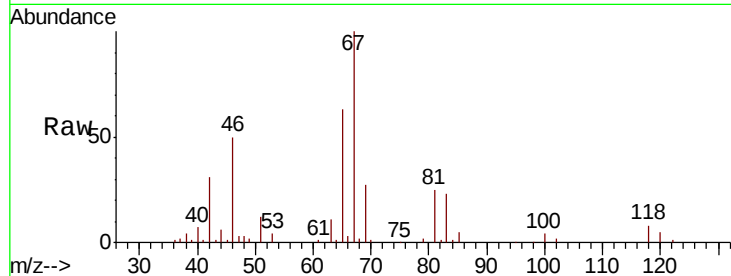




#37
 1,2-Dichloropropane
 Concen: 0.576 ug/L
 RT: 6.33 min Scan# 1605
 Delta R.T. -0.10 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

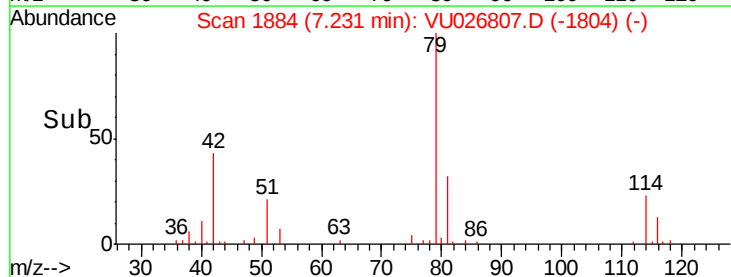
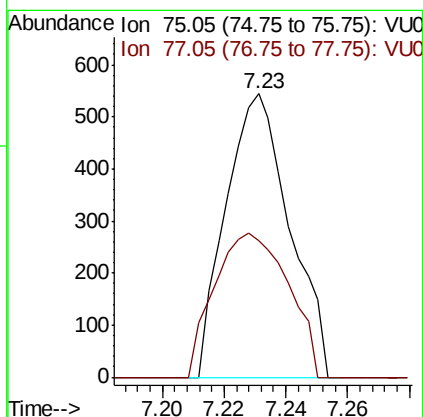
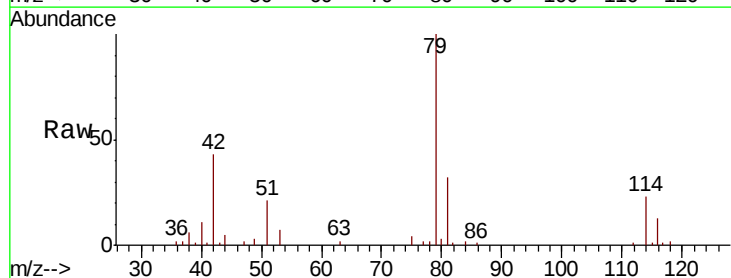
Instrument :
 MSVOA_U
 ClientSampleId :
 C0KY4

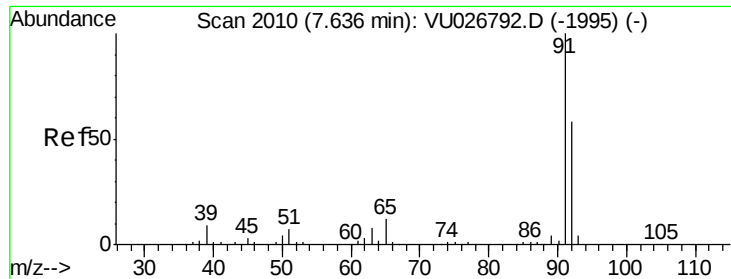
Tgt Ion: 63 Resp: 5014
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.2#



#39
 cis-1,3-Dichloropropene
 Concen: 0.067 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

Tgt Ion: 75 Resp: 780
 Ion Ratio Lower Upper
 75 100
 77 48.0 21.7 40.3#





#42

Toluene

Concen: 0.035 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

Instrument :

MSVOA_U

ClientSampleId :

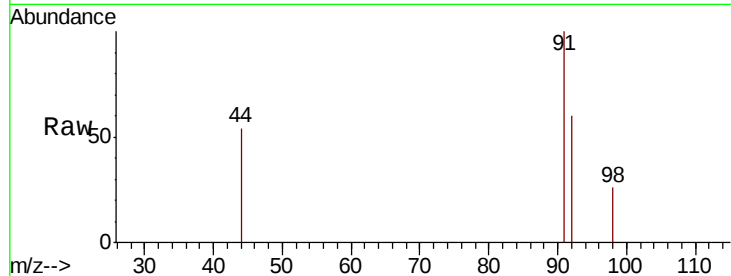
C0KY4

Tgt Ion: 91 Resp: 1175

Ion Ratio Lower Upper

91 100

92 59.6 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.64

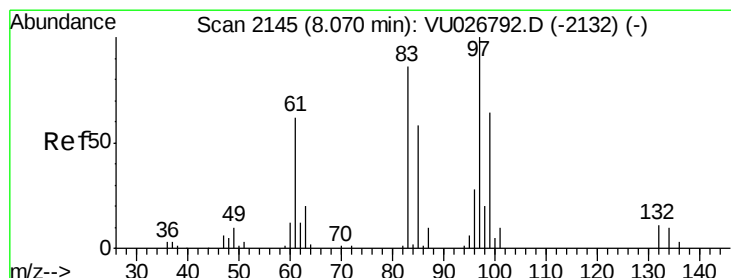
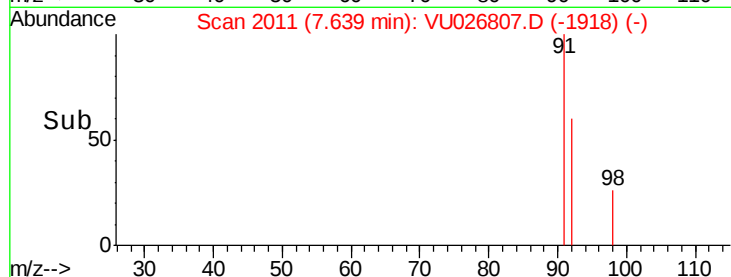
600

400

200

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.044 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

Tgt Ion: 97 Resp: 260

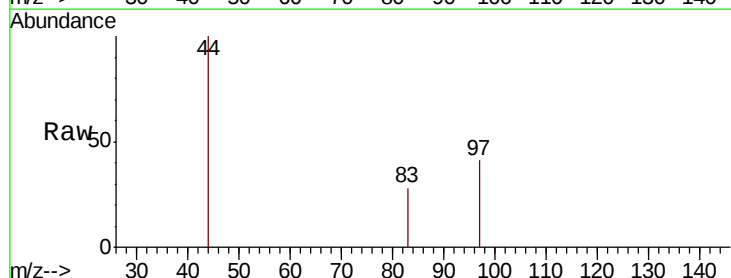
Ion Ratio Lower Upper

97 100

99 0.0 45.0 83.6#

83 67.4 60.8 112.8

85 0.0 38.1 70.9#



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

250

200

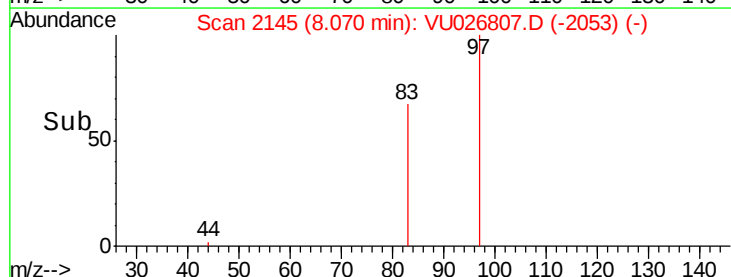
150

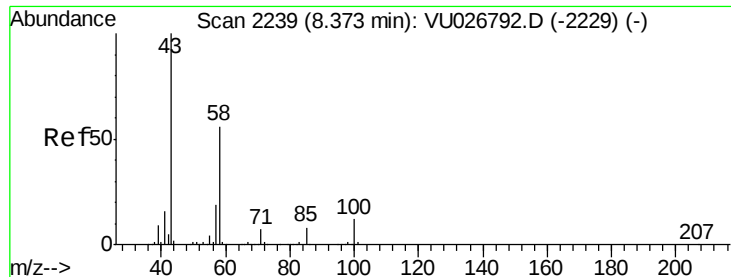
100

50

0

Time-->

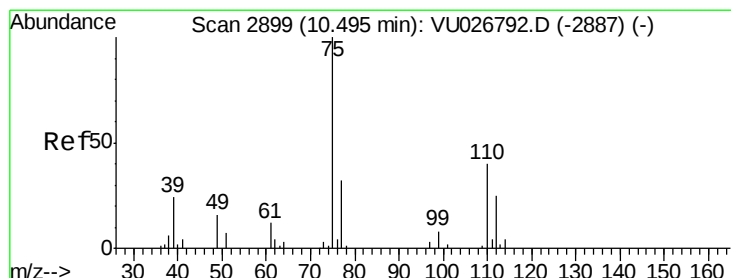
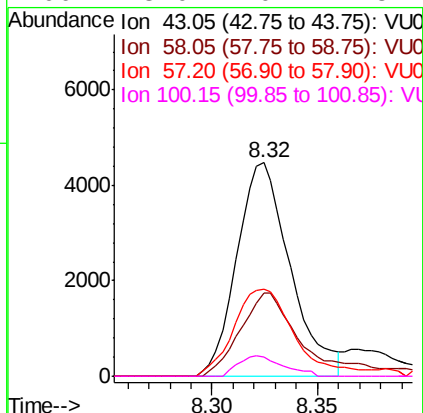
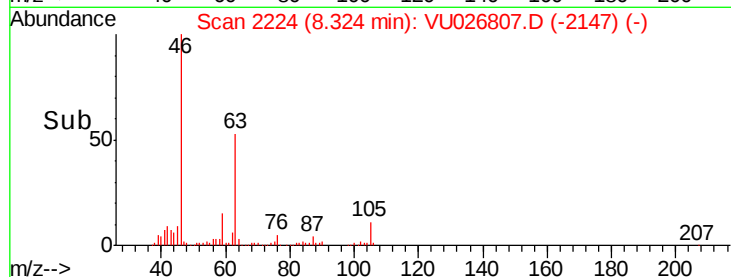
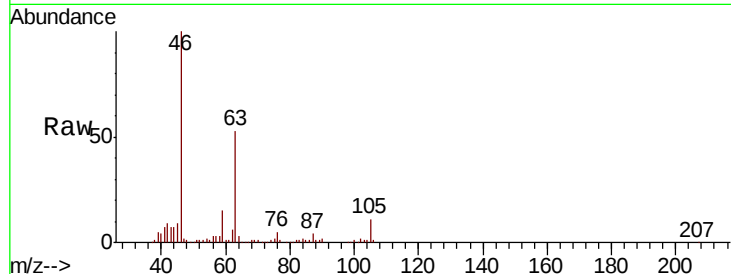




#48
 2-Hexanone
 Concen: 2.169 ug/L
 RT: 8.32 min Scan# 2224
 Delta R.T. -0.05 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

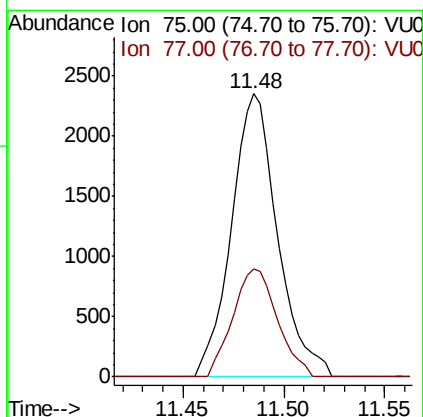
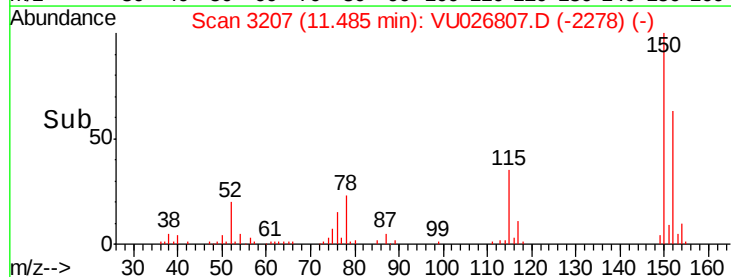
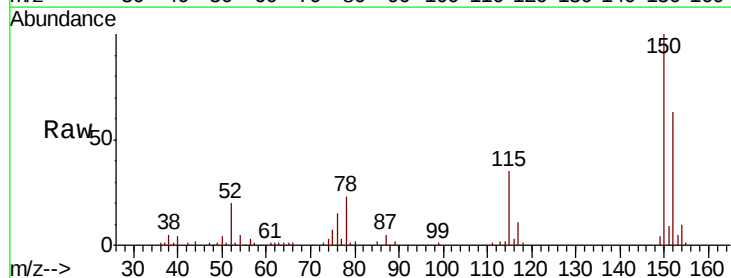
Instrument :
 MSVOA_U
 ClientSampleId :
 C0KY4

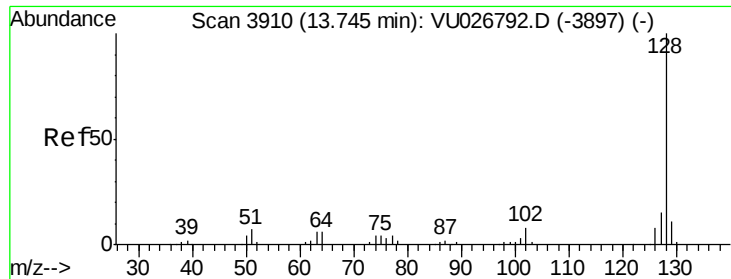
Tgt Ion: 43 Resp: 7864
 Ion Ratio Lower Upper
 43 100
 58 46.3 43.7 65.5
 57 46.5 15.2 22.8#
 100 8.0 10.1 15.1#



#59
 1,2,3-Trichloropropane
 Concen: 0.735 ug/L
 RT: 11.48 min Scan# 3207
 Delta R.T. 0.99 min
 Lab File: VU026807.D
 Acq: 16 Sep 2018 04:48

Tgt Ion: 75 Resp: 3763
 Ion Ratio Lower Upper
 75 100
 77 36.9 25.9 38.9





#69

Naphthalene

Concen: 0.342 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU026807.D

Acq: 16 Sep 2018 04:48

Instrument :

MSVOA_U

ClientSampleId :

C0KY4

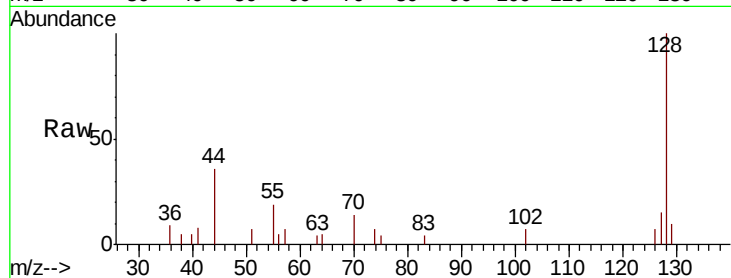
Tgt Ion:128 Resp: 4114

Ion Ratio Lower Upper

128 100

129 9.1 8.6 12.8

127 11.7 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

