

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081418\
 Data File : VU026097.D
 Acq On : 14 Aug 2018 13:28
 Operator : MD/SY
 Sample : J4451-22
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZL2

Quant Time: Aug 14 13:47:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 14 02:18:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	273909	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	263223	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	135828	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	80701	40.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.62%
7) Chloroethane-d5	1.66	69	74299	46.81	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.62%
11) 1,1-Dichloroethene-d2	2.27	63	126364	33.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.42%
21) 2-Butanone-d5	4.17	46	149254	89.44	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.44%
24) Chloroform-d	4.65	84	204730	48.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.44%
26) 1,2-Dichloroethane-d4	5.31	65	134728	46.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.96%
32) Benzene-d6	5.34	84	378054	46.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.50%
36) 1,2-Dichloropropane-d6	6.33	67	125715	47.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.06%
41) Toluene-d8	7.57	98	359732	46.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	7.85	79	62812	47.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.28%
47) 2-Hexanone-d5	8.31	63	109504	91.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.16%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	190113	49.15	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.30%
64) 1,2-Dichlorobenzene-d4	11.86	152	156615	46.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.54%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	26197	10.978	ug/L 100
3) Chloromethane	1.33	50	76404	35.683	ug/L 99
6) Bromomethane	1.60	94	8000	7.241	ug/L 93
9) Trichlorofluoromethane	1.88	101	85985	29.088	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	47915	27.864	ug/L 99
12) 1,1-Dichloroethene	2.28	96	2808	1.776	ug/L # 1
13) Acetone	2.34	43	17879	17.247	ug/L 46
14) Carbon disulfide	2.47	76	147487	28.348	ug/L 99
15) Methyl Acetate	2.62	43	6780	3.122	ug/L 99
17) trans-1,2-Dichloroethene	2.98	96	100211	56.872	ug/L 97
18) Methyl tert-butyl Ether	3.00	73	660527	114.069	ug/L 99
25) Chloroform	4.67	83	162623	45.697	ug/L 99
27) 1,2-Dichloroethane	5.40	62	129608	44.095	ug/L 100
30) 1,1,1-Trichloroethane	4.91	97	72503	21.831	ug/L 98
31) Carbon tetrachloride	5.13	117	152172	50.177	ug/L 98
34) Trichloroethene	6.18	95	3964	2.024	ug/L 89
35) Methylcyclohexane	6.42	83	84346	28.204	ug/L 98

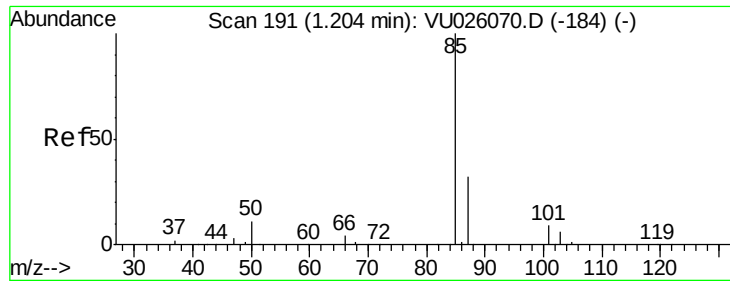
Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081418\
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QLast Update : Tue Aug 14 02:18:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.27	75	98738	31.759	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	216976	76.981	ug/L	99
42) Toluene	7.64	91	459242	57.710	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	57296	29.296	ug/L	94
49) Dibromochloromethane	8.48	129	107458	45.564	ug/L	96
50) 1,2-Dibromoethane	8.59	107	93313	43.808	ug/L	100
53) m,p-Xylene	9.38	106	123719	37.183	ug/L	99
55) Styrene	9.80	104	159739	29.054	ug/L	94
58) 1,1,2,2-Tetrachloroethane	10.46	83	85747	25.797	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	141054	31.820	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	23147	29.300	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	129305	45.015	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 10.978 ug/L

RT: 1.20 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

Instrument :

MSVOA_U

ClientSampleId :

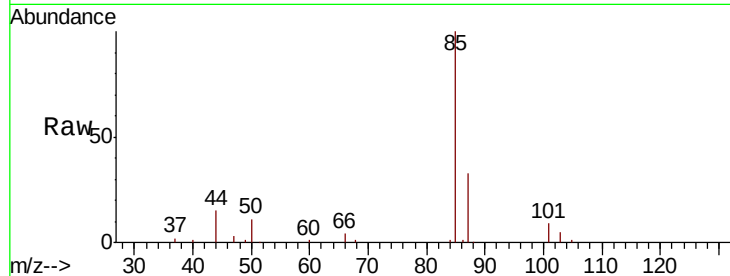
A4ZL2

Tgt Ion: 85 Resp: 26197

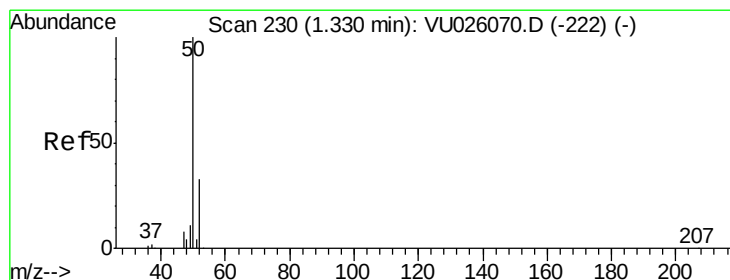
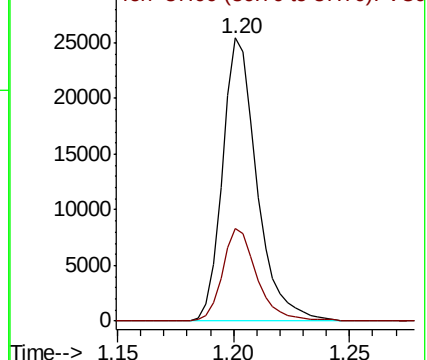
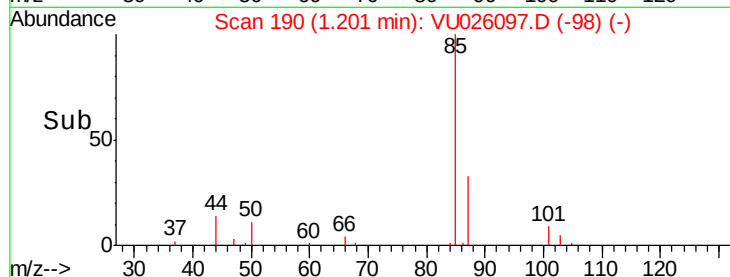
Ion Ratio Lower Upper

85 100

87 32.5 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU026097.D (-98) (-)



#3

Chloromethane

Concen: 35.683 ug/L

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU026097.D

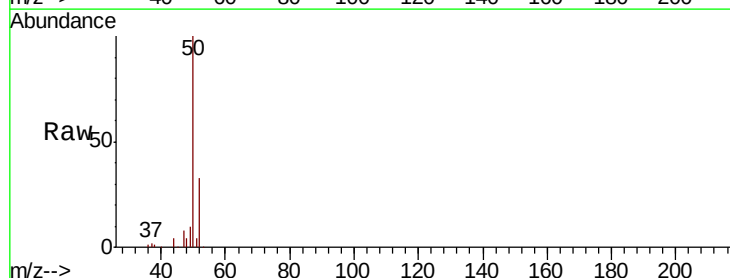
Acq: 14 Aug 2018 13:28

Tgt Ion: 50 Resp: 76404

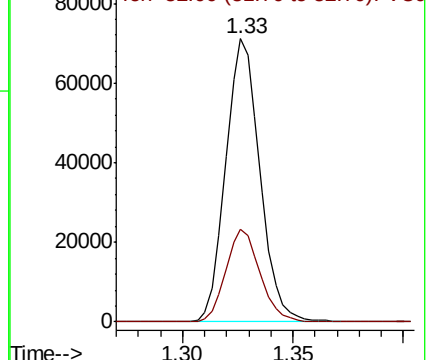
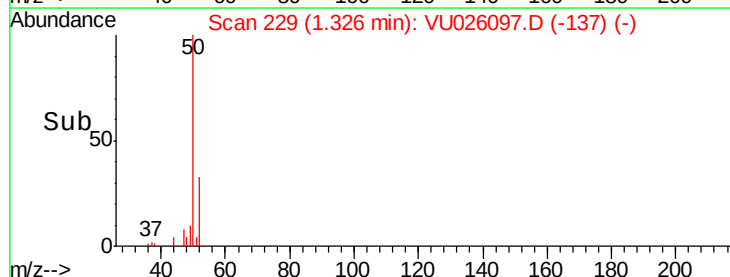
Ion Ratio Lower Upper

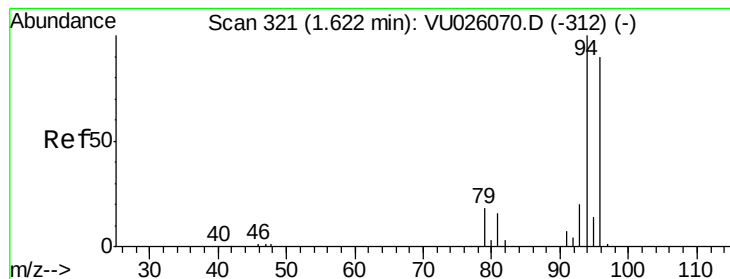
50 100

52 32.9 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU026097.D (-137) (-)





#6

Bromomethane

Concen: 7.241 ug/L

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

Instrument :

MSVOA_U

ClientSampleId :

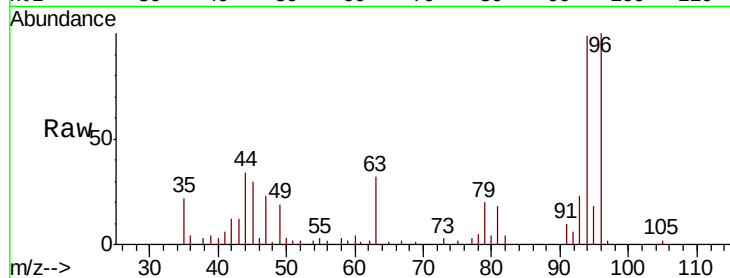
A4ZL2

Tgt Ion: 94 Resp: 8000

Ion Ratio Lower Upper

94 100

96 100.5 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VU026097.D (-312) (-)

Ion 96.00 (95.70 to 96.70): VU026097.D (-312) (-)

1.60

8000

6000

4000

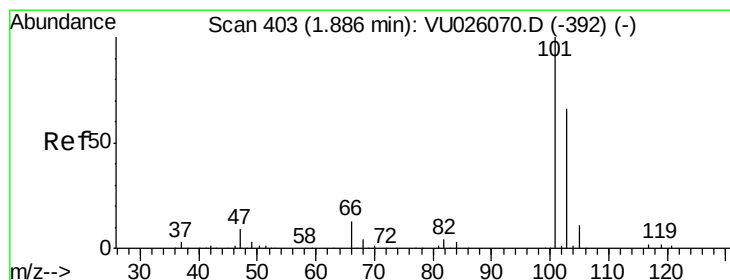
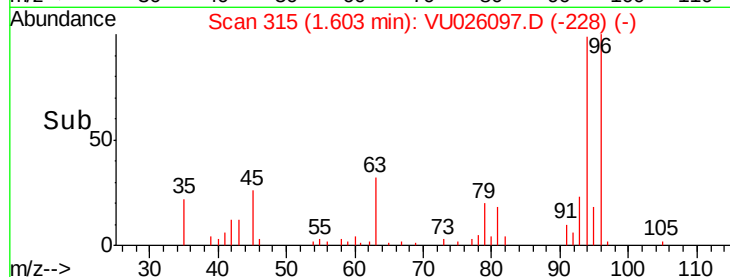
2000

0

1.60

1.65

Time-->



#9

Trichlorofluoromethane

Concen: 29.088 ug/L

RT: 1.88 min Scan# 400

Delta R.T. -0.01 min

Lab File: VU026097.D

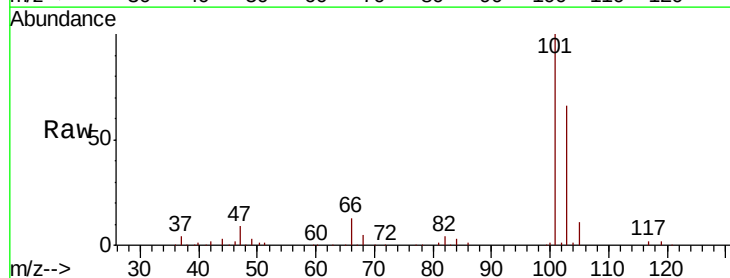
Acq: 14 Aug 2018 13:28

Tgt Ion: 101 Resp: 85985

Ion Ratio Lower Upper

101 100

103 64.5 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VU026097.D (-392) (-)

Ion 103.00 (102.70 to 103.70): VU026097.D (-392) (-)

1.88

60000

40000

20000

0

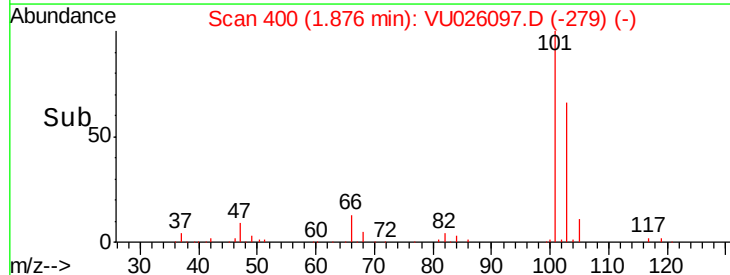
1.80

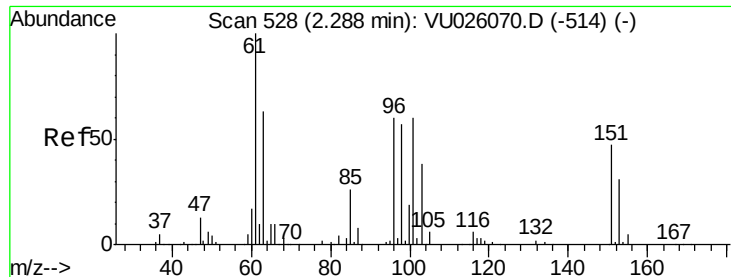
1.85

1.90

1.95

Time-->





#10

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

Concen: 27.864 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

Instrument :

MSVOA_U

ClientSampleId :

A4ZL2

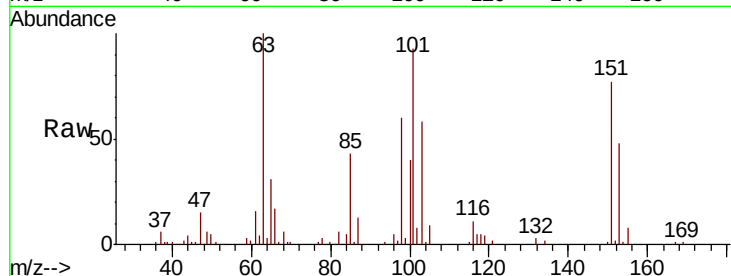
Tgt Ion: 101 Resp: 47915

Ion Ratio Lower Upper

101 100

85 45.6 36.0 54.0

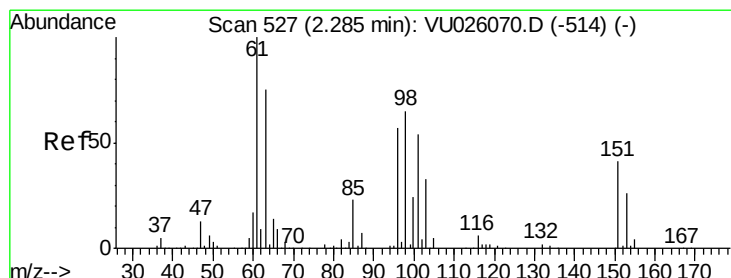
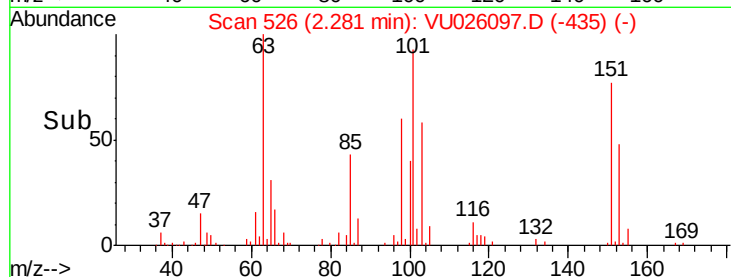
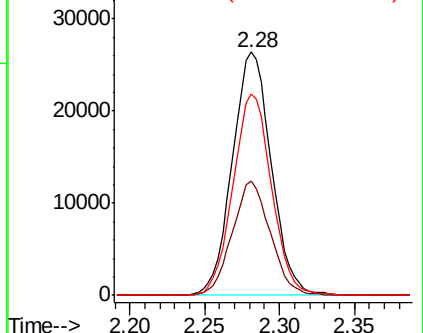
151 81.7 64.2 96.2



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: 1.776 ug/L

RT: 2.28 min Scan# 525

Delta R.T. -0.01 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

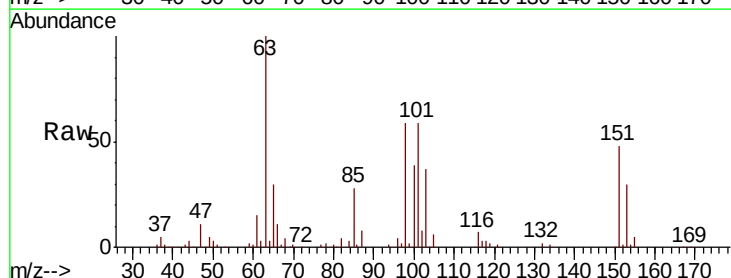
Tgt Ion: 96 Resp: 2808

Ion Ratio Lower Upper

96 100

61 408.3 121.2 225.2#

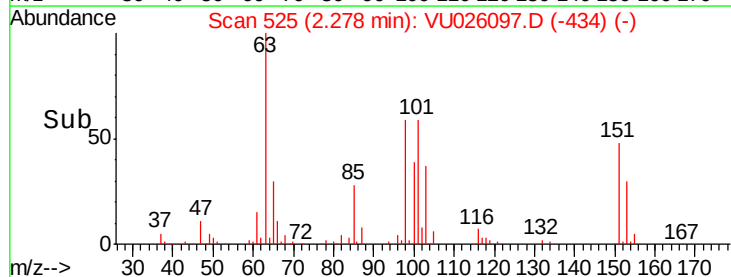
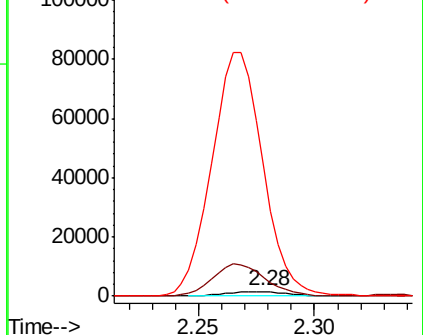
63 2765.9 108.7 201.9#

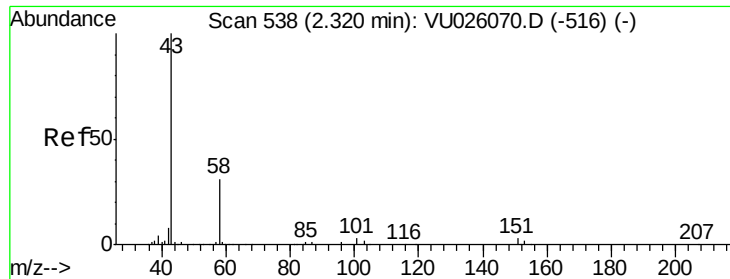


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 17.247 ug/L

RT: 2.34 min Scan# 543

Delta R.T. 0.02 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

Instrument :

MSVOA_U

ClientSampleId :

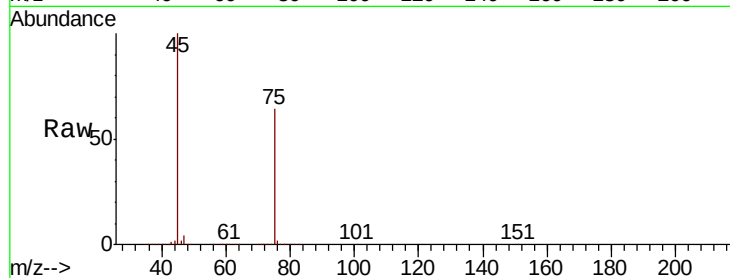
A4ZL2

Tgt Ion: 43 Resp: 17879

Ion Ratio Lower Upper

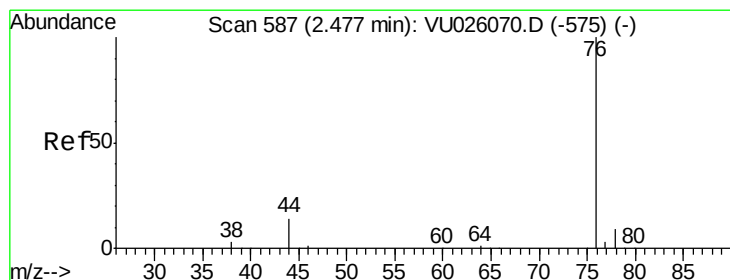
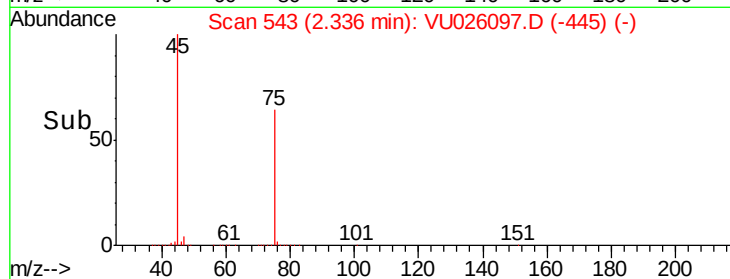
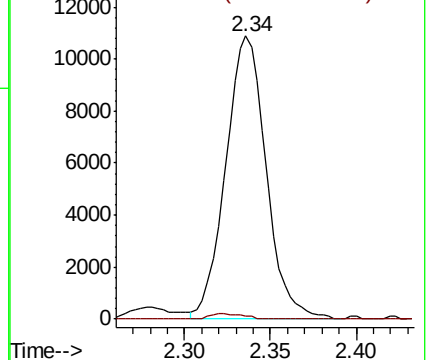
43 100

58 1.5 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VU026097.D (-516) (-)

Ion 58.00 (57.70 to 58.70): VU026097.D (-516) (-)



#14

Carbon disulfide

Concen: 28.348 ug/L

RT: 2.47 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU026097.D

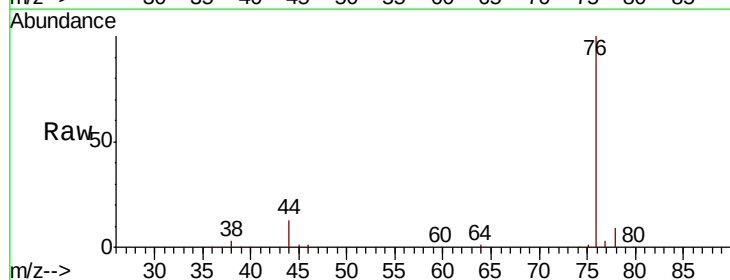
Acq: 14 Aug 2018 13:28

Tgt Ion: 76 Resp: 147487

Ion Ratio Lower Upper

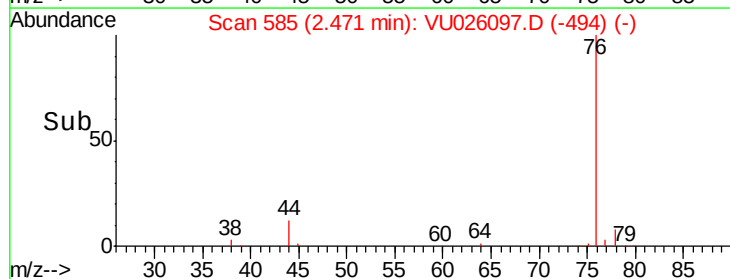
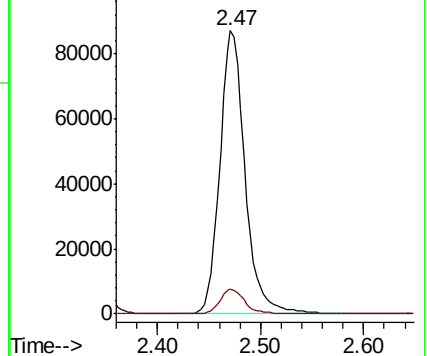
76 100

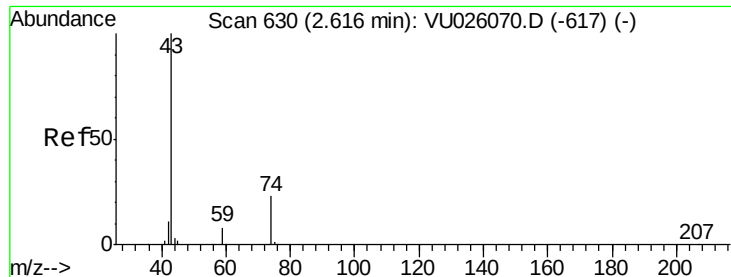
78 8.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU026097.D (-494) (-)

Ion 78.00 (77.70 to 78.70): VU026097.D (-494) (-)

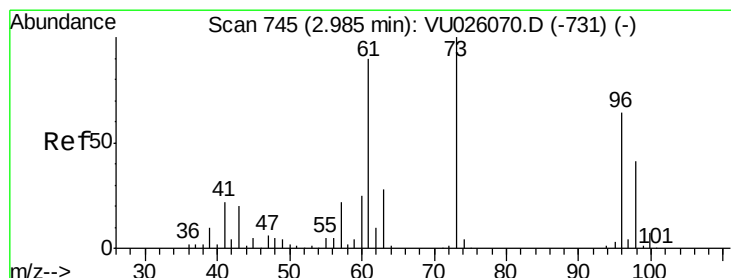
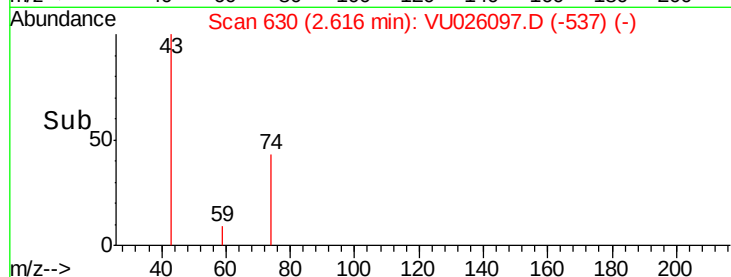
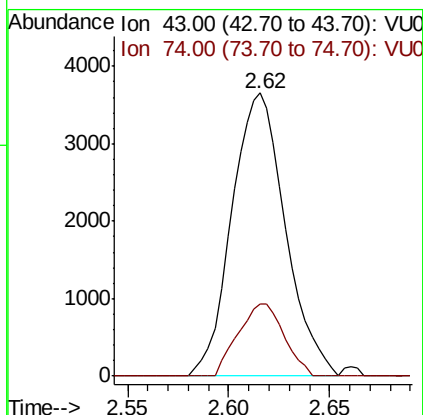
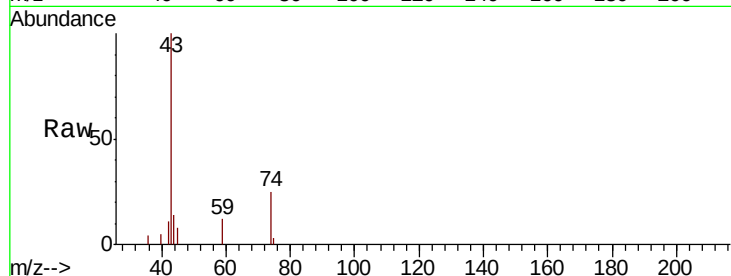




#15
Methyl Acetate
Concen: 3.122 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

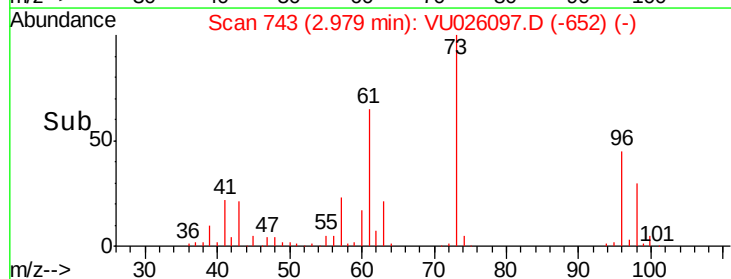
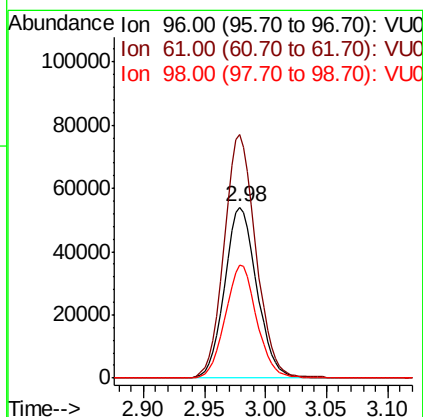
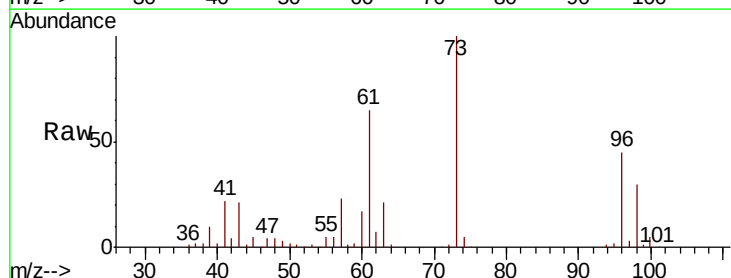
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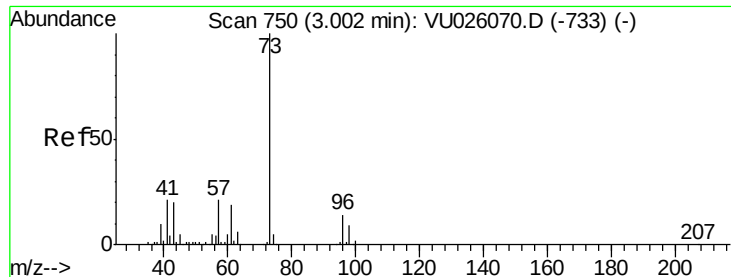
Tgt Ion: 43 Resp: 6780
Ion Ratio Lower Upper
43 100
74 21.9 17.8 26.8



#17
trans-1,2-Dichloroethene
Concen: 56.872 ug/L
RT: 2.98 min Scan# 743
Delta R.T. -0.01 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

Tgt Ion: 96 Resp: 100211
Ion Ratio Lower Upper
96 100
61 142.4 102.8 190.8
98 65.9 44.7 83.1

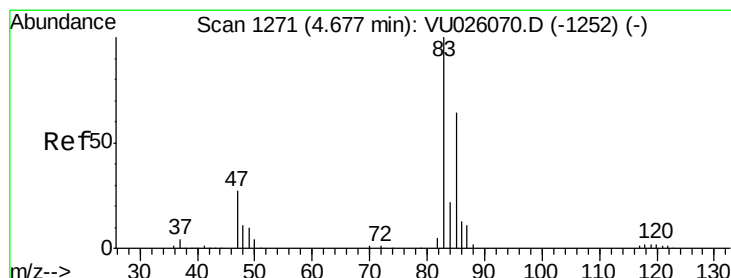
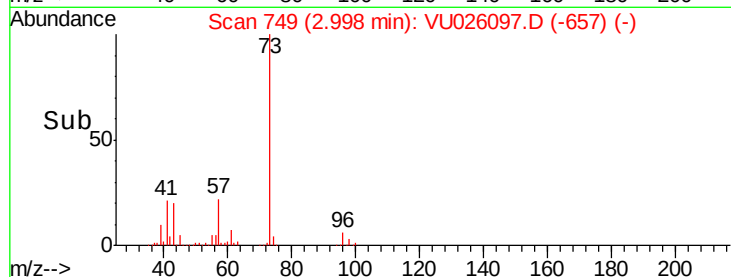
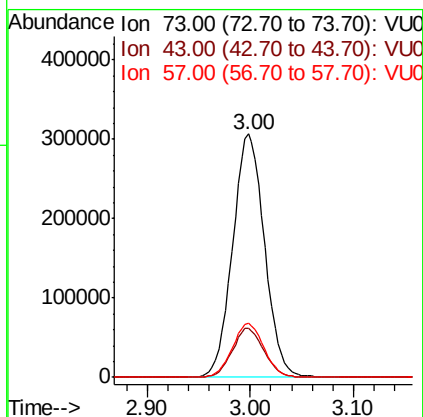
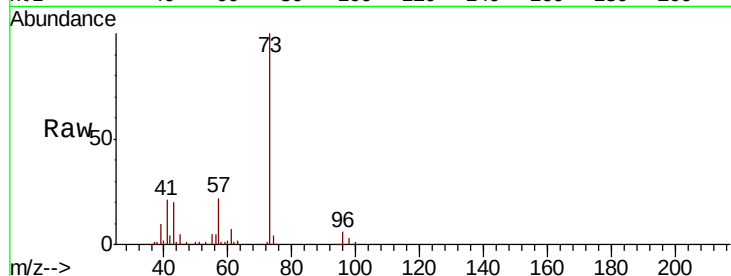




#18
Methyl tert-butyl Ether
Concen: 114.069 ug/L
RT: 3.00 min Scan# 749
Delta R.T. -0.00 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

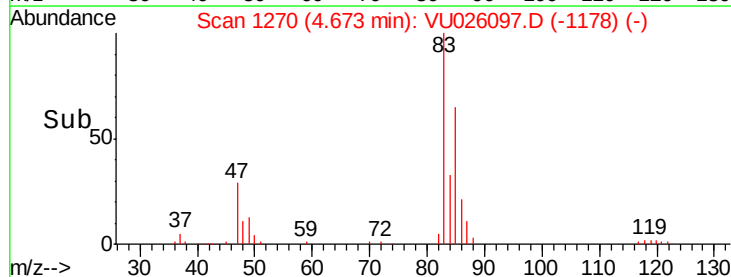
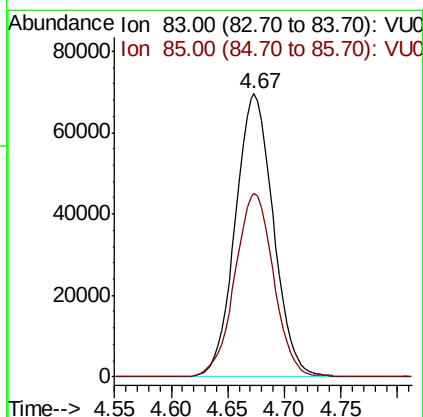
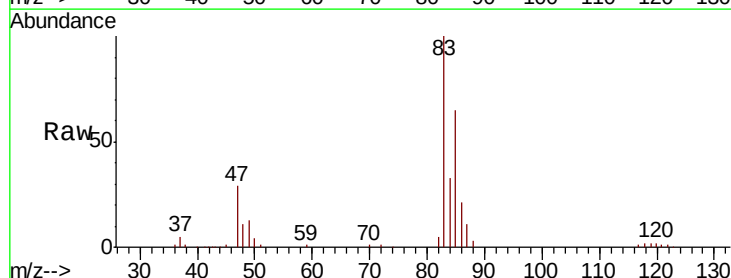
Instrument :
MSVOA_U
ClientSampleId :
A4ZL2

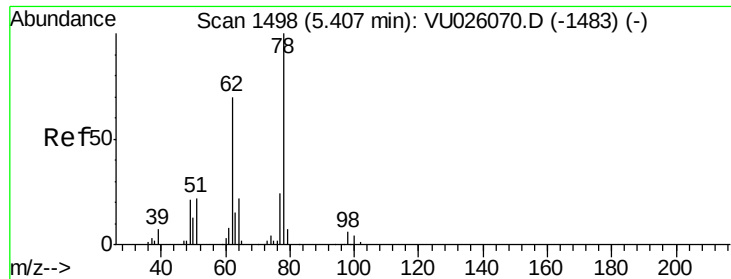
Tgt Ion:	73	Resp:	660527
Ion	Ratio	Lower	Upper
73	100		
43	19.9	16.3	24.5
57	22.0	17.1	25.7



#25
Chloroform
Concen: 45.697 ug/L
RT: 4.67 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

Tgt Ion:	83	Resp:	162623
Ion	Ratio	Lower	Upper
83	100		
85	65.0	45.9	85.3

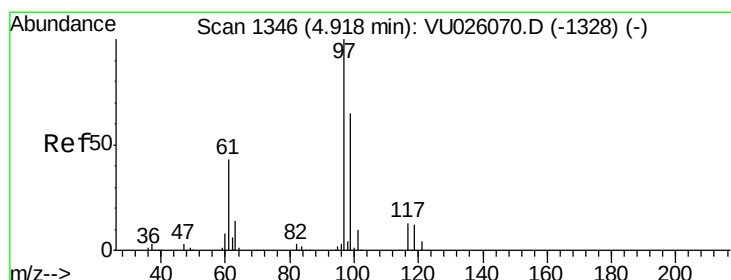
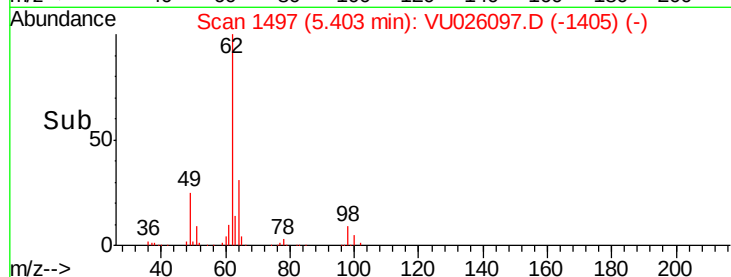
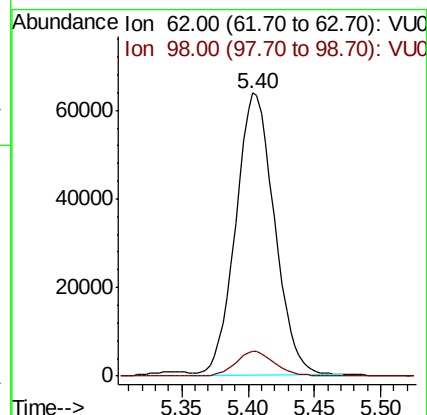
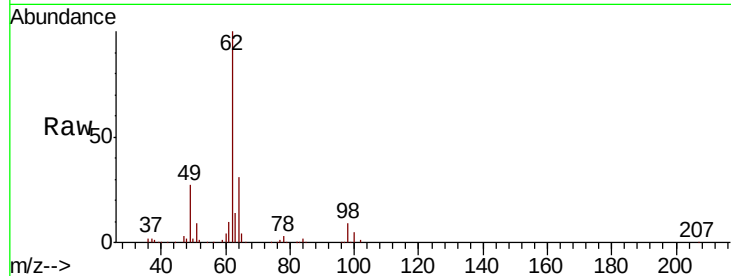




#27
 1,2-Dichloroethane
 Concen: 44.095 ug/L
 RT: 5.40 min Scan# 1497
 Delta R.T. -0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

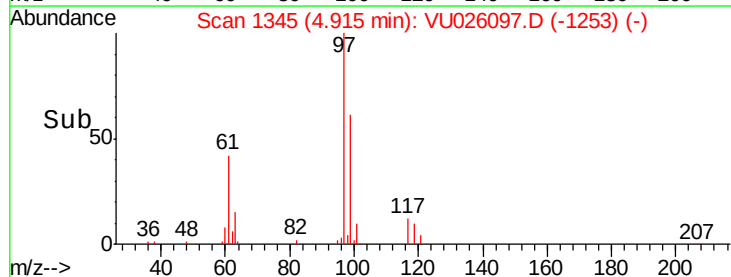
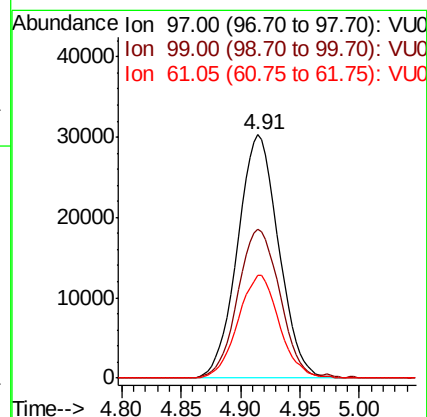
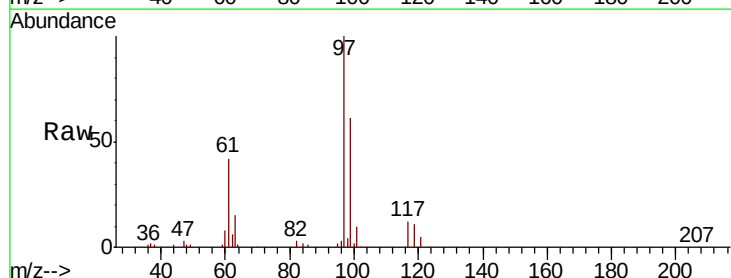
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZL2

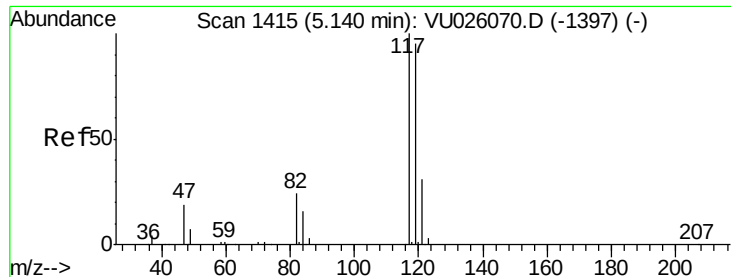
Tgt Ion: 62 Resp: 129608
 Ion Ratio Lower Upper
 62 100
 98 8.7 7.0 10.4



#30
 1,1,1-Trichloroethane
 Concen: 21.831 ug/L
 RT: 4.91 min Scan# 1345
 Delta R.T. -0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

Tgt Ion: 97 Resp: 72503
 Ion Ratio Lower Upper
 97 100
 99 62.5 51.8 77.6
 61 42.5 34.7 52.1





#31

Carbon tetrachloride

Concen: 50.177 ug/L

RT: 5.13 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

Instrument :

MSVOA_U

ClientSampleId :

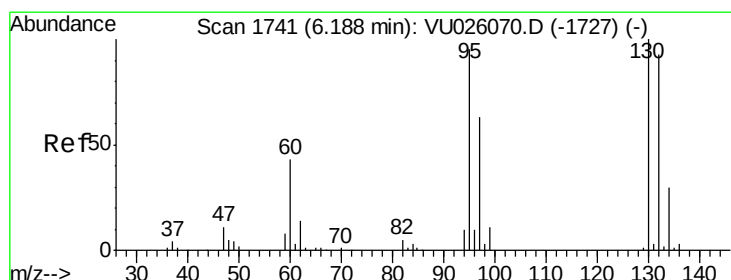
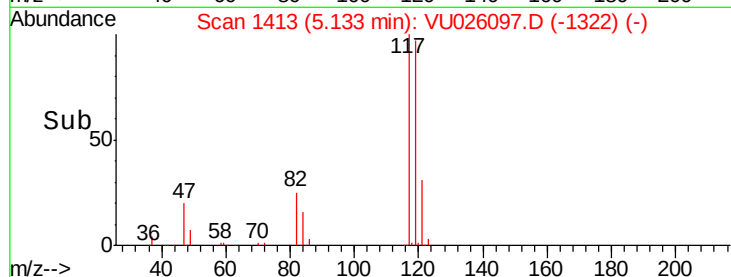
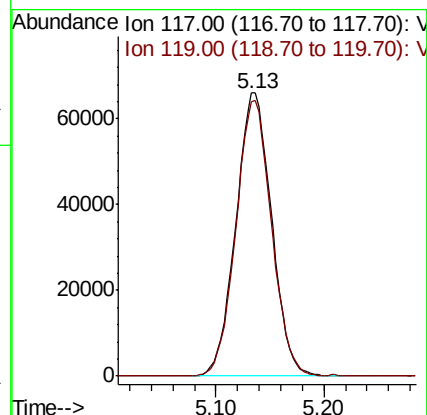
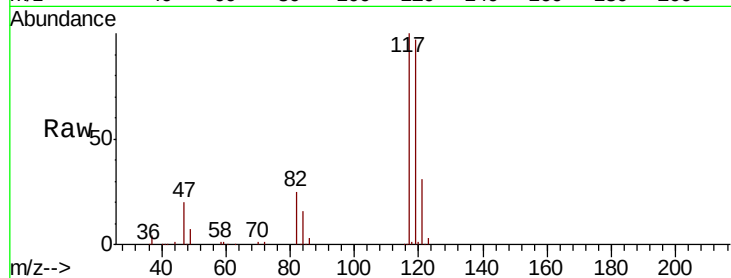
A4ZL2

Tgt Ion:117 Resp: 152172

Ion Ratio Lower Upper

117 100

119 97.0 76.3 114.5



#34

Trichloroethene

Concen: 2.024 ug/L

RT: 6.18 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

Tgt Ion: 95 Resp: 3964

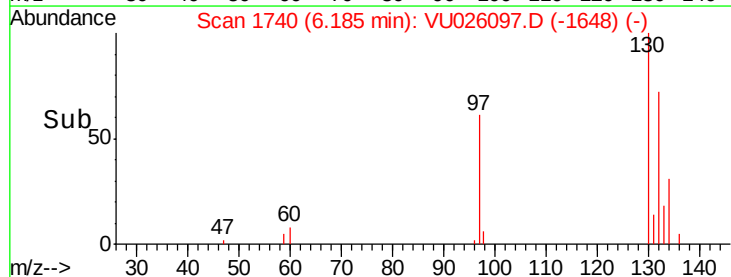
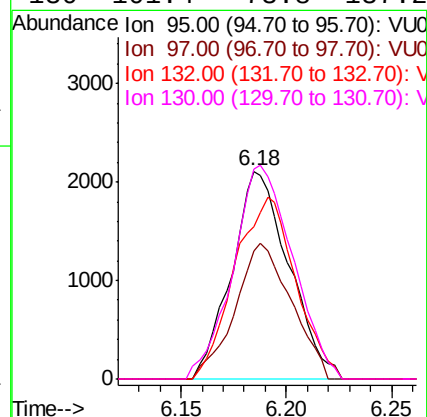
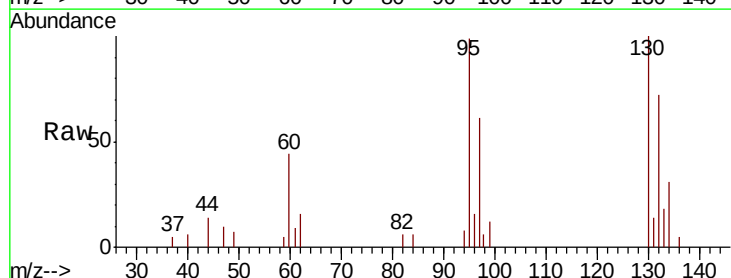
Ion Ratio Lower Upper

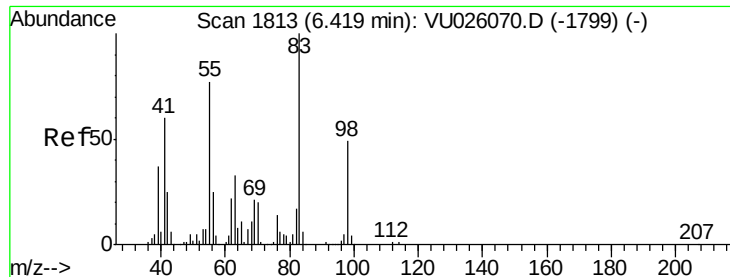
95 100

97 61.6 45.2 84.0

132 73.1 68.2 126.6

130 101.4 73.8 137.2

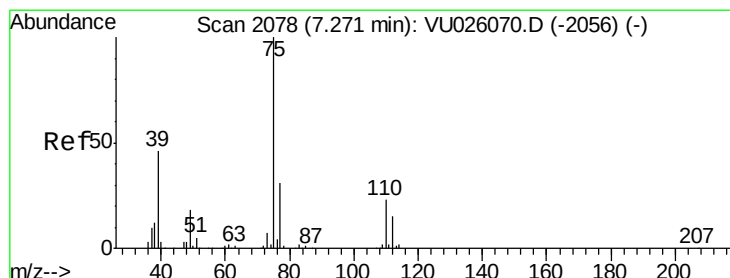
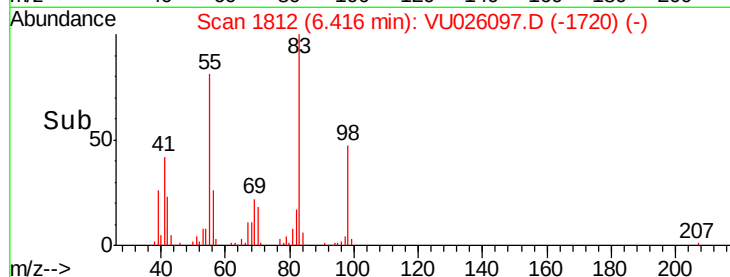
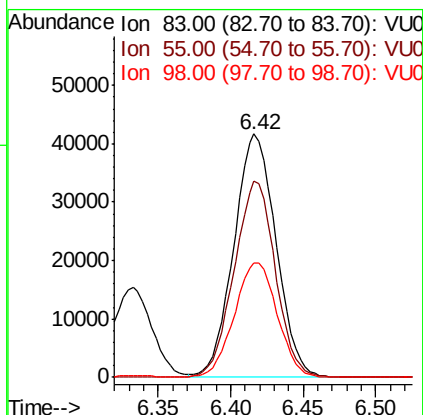
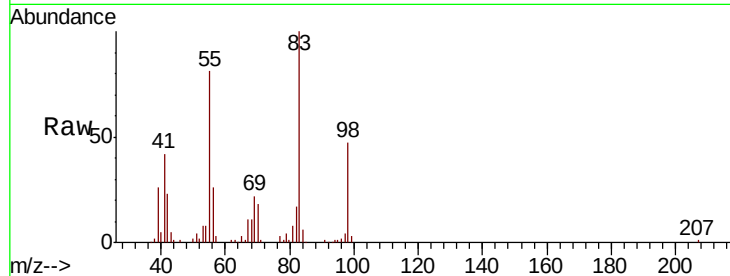




#35
Methylcyclohexane
Concen: 28.204 ug/L
RT: 6.42 min Scan# 1812
Delta R.T. -0.00 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

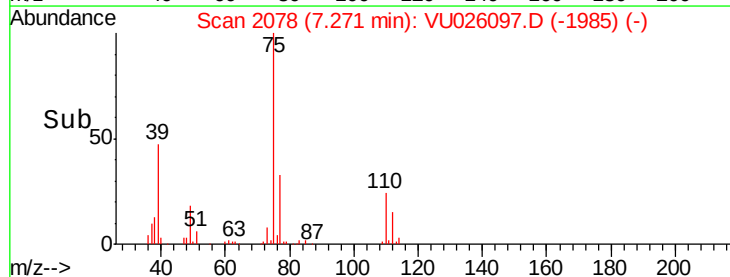
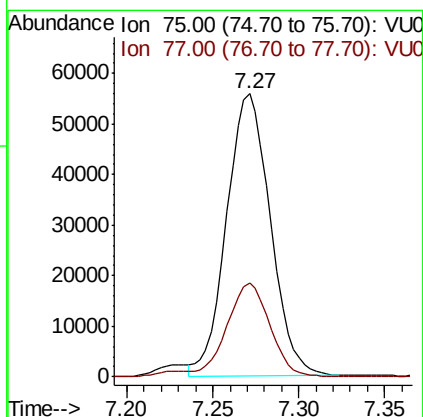
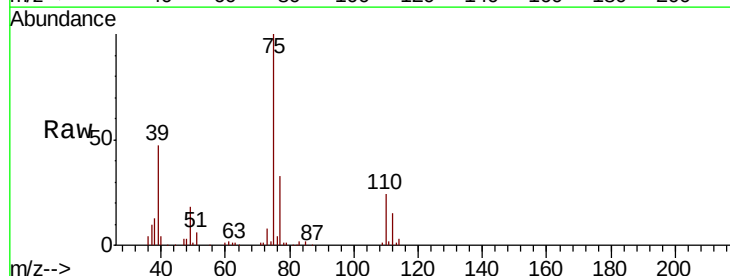
Instrument :
MSVOA_U
ClientSampleId :
A4ZL2

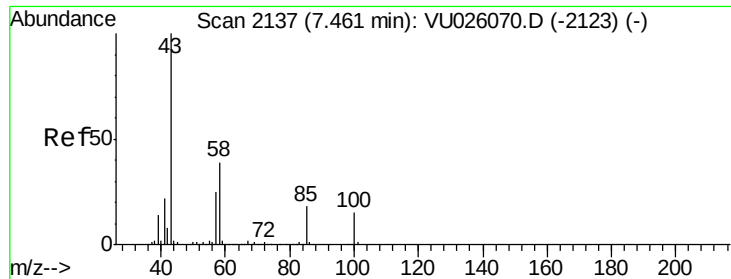
Tgt Ion: 83 Resp: 84346
Ion Ratio Lower Upper
83 100
55 78.9 61.0 91.6
98 48.0 38.1 57.1



#39
cis-1,3-Dichloropropene
Concen: 31.759 ug/L
RT: 7.27 min Scan# 2078
Delta R.T. -0.00 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

Tgt Ion: 75 Resp: 98738
Ion Ratio Lower Upper
75 100
77 33.2 22.1 41.1

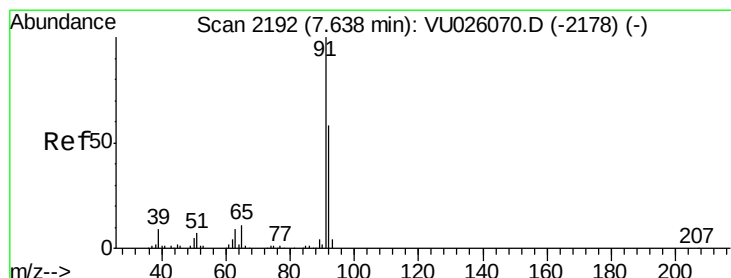
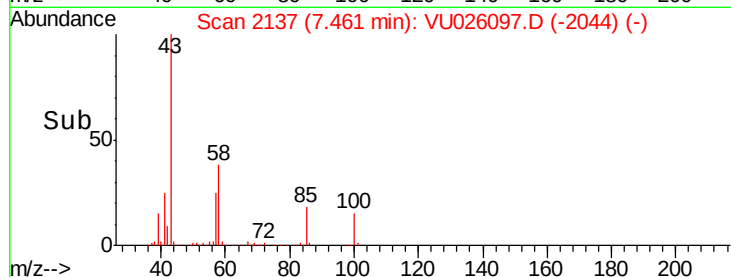
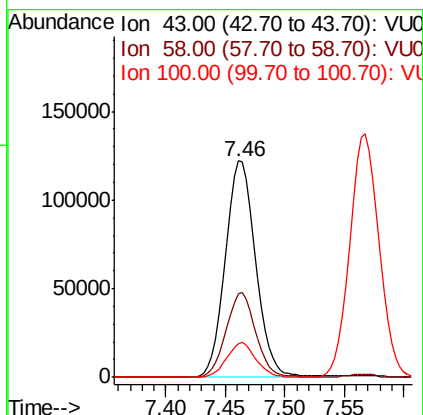
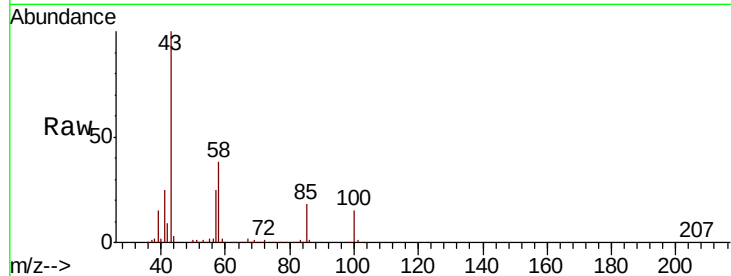




#40
 4-Methyl-2-pentanone
 Concen: 76.981 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

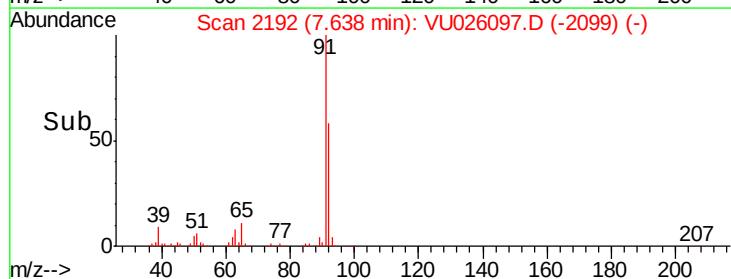
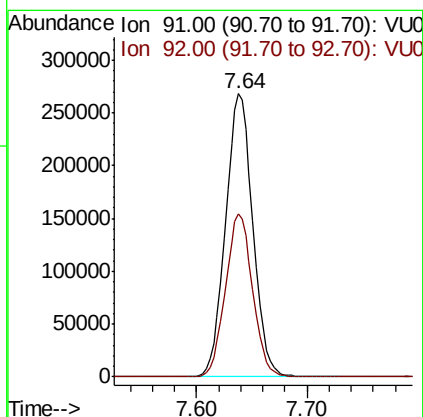
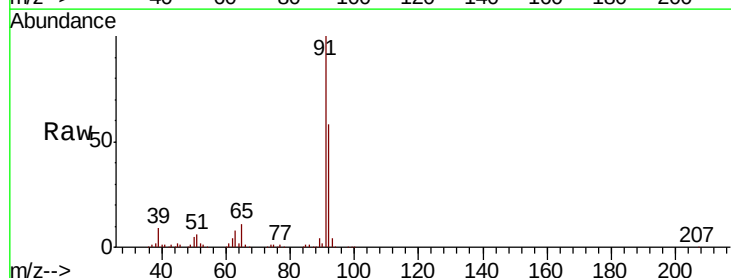
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZL2

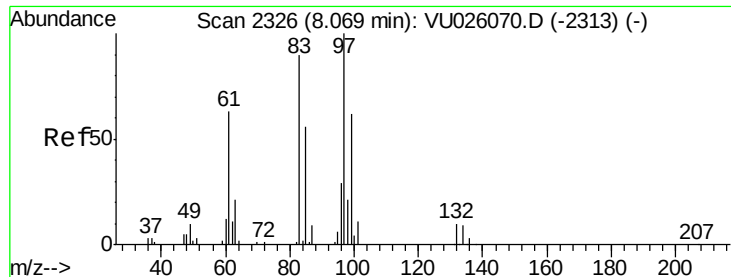
Tgt Ion: 43 Resp: 216976
 Ion Ratio Lower Upper
 43 100
 58 38.3 30.6 46.0
 100 15.4 11.8 17.6



#42
 Toluene
 Concen: 57.710 ug/L
 RT: 7.64 min Scan# 2192
 Delta R.T. -0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

Tgt Ion: 91 Resp: 459242
 Ion Ratio Lower Upper
 91 100
 92 57.7 41.0 76.2

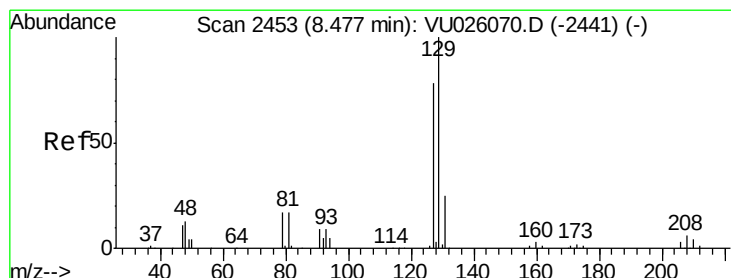
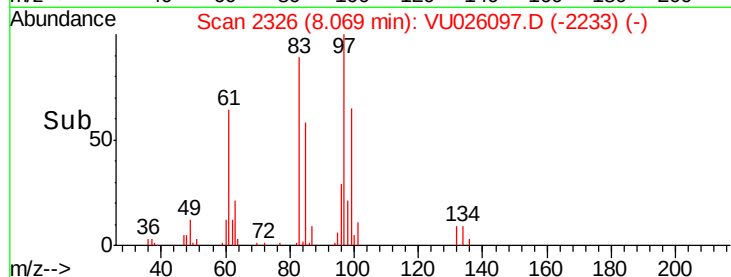
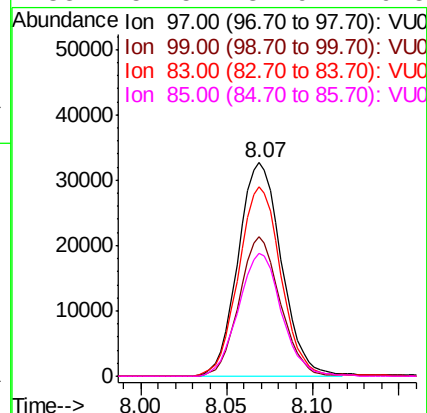
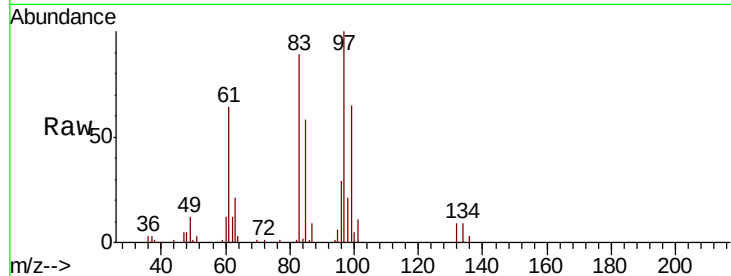




#45
 1,1,2-Trichloroethane
 Concen: 29.296 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

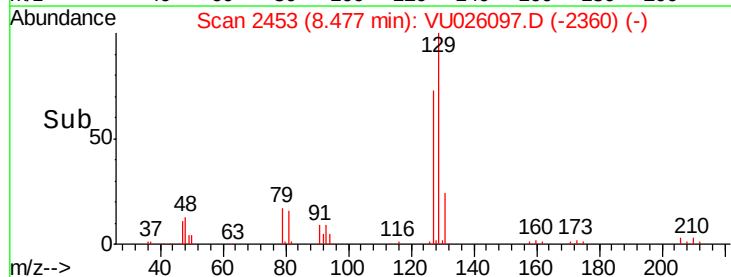
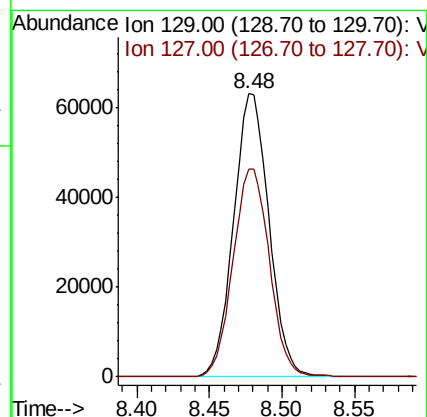
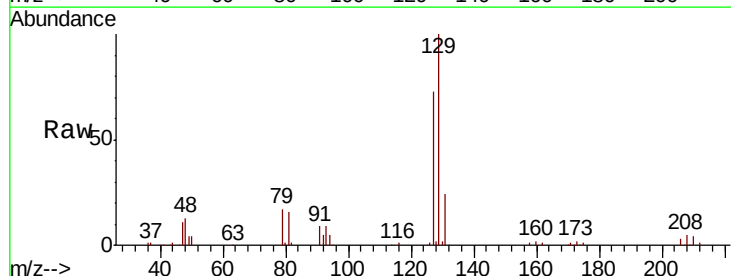
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZL2

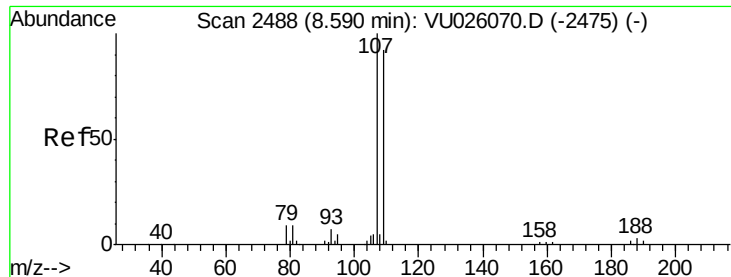
Tgt Ion	Resp	Lower	Upper
97	57296		
99	65.4	41.6	77.2
83	88.8	59.0	109.6
85	57.5	37.9	70.5



#49
 Dibromochloromethane
 Concen: 45.564 ug/L
 RT: 8.48 min Scan# 2453
 Delta R.T. -0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

Tgt Ion	Resp	Lower	Upper
129	107458		
127	73.4	53.5	99.3

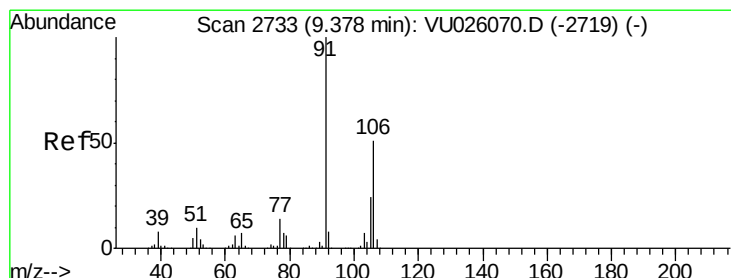
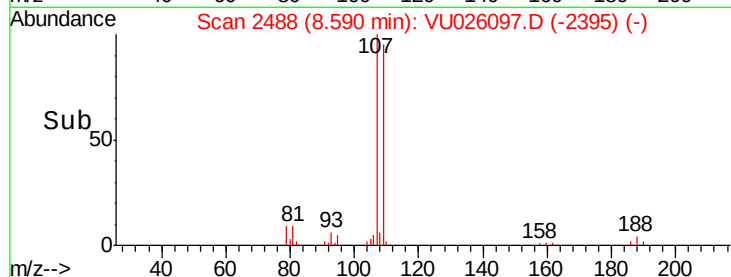
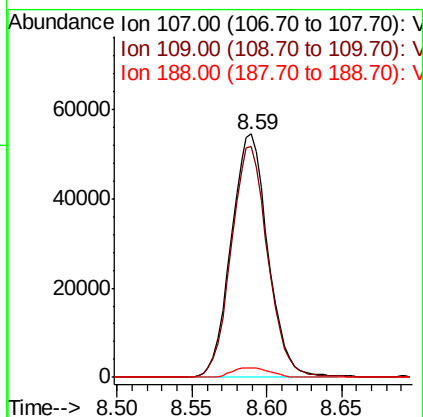
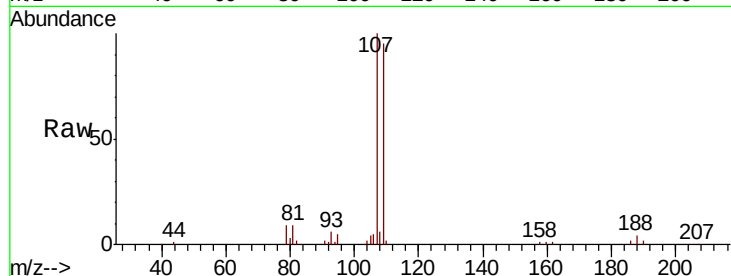




#50
1,2-Dibromoethane
Concen: 43.808 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

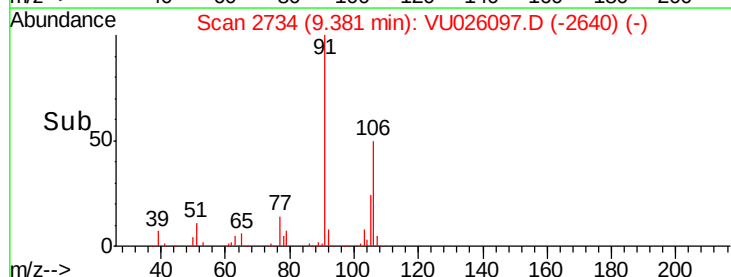
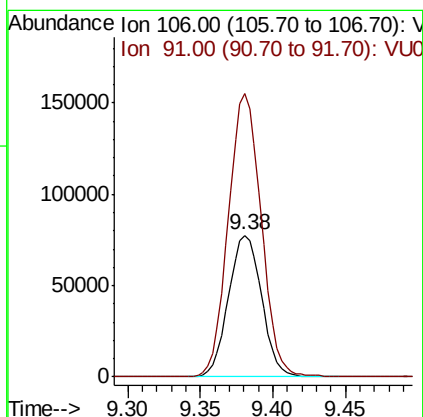
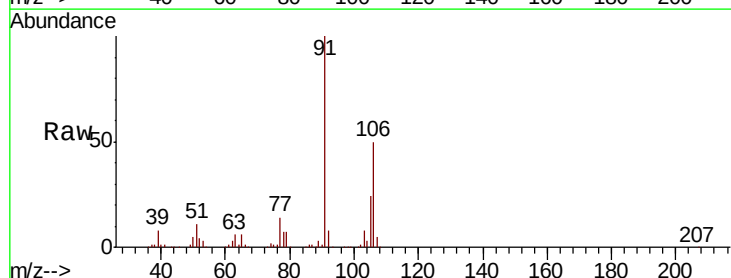
Instrument :
MSVOA_U
ClientSampleId :
A4ZL2

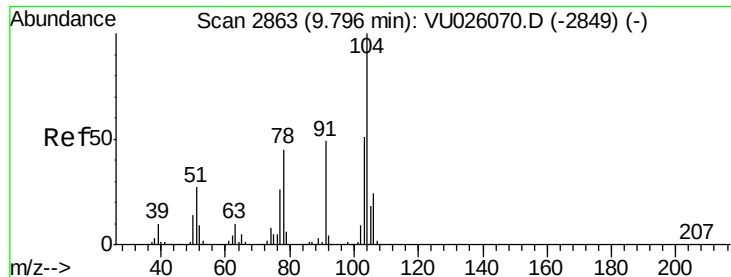
Tgt Ion:107 Resp: 93313
Ion Ratio Lower Upper
107 100
109 94.6 66.1 122.7
188 4.0 2.9 4.3



#53
m,p-Xylene
Concen: 37.183 ug/L
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU026097.D
Acq: 14 Aug 2018 13:28

Tgt Ion:106 Resp: 123719
Ion Ratio Lower Upper
106 100
91 199.8 141.3 262.5





#55

Styrene

Concen: 29.054 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

Instrument :

MSVOA_U

ClientSampleId :

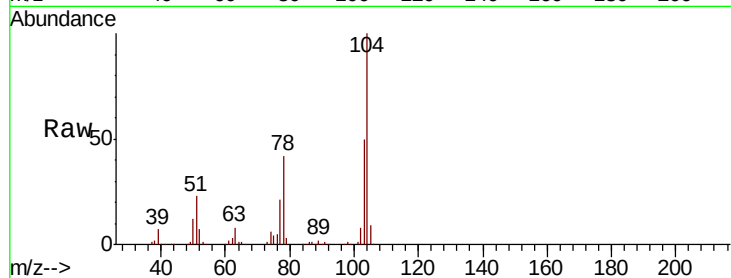
A4ZL2

Tgt Ion: 104 Resp: 159739

Ion Ratio Lower Upper

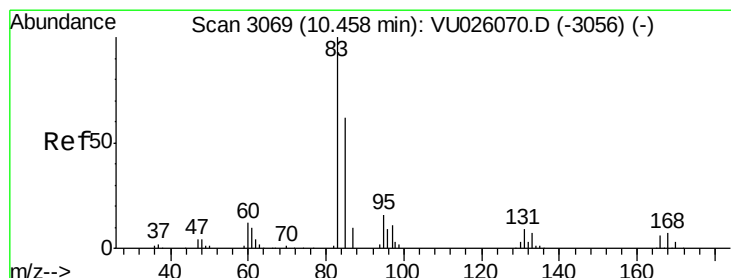
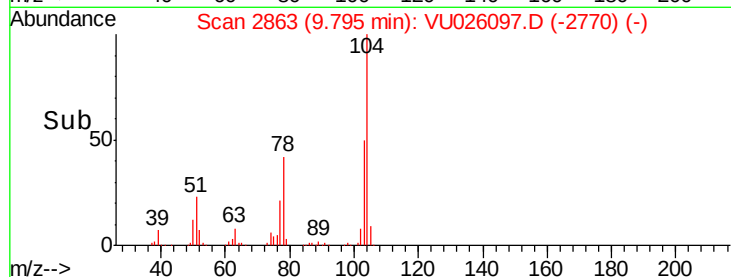
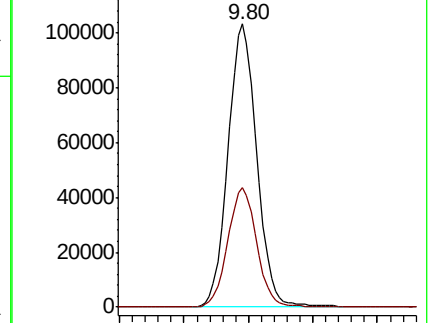
104 100

78 42.0 32.1 59.5



Abundance Ion 104.00 (103.70 to 104.70): VU026097.D (-2770) (-)

Ion 78.00 (77.70 to 78.70): VU026097.D (-2770) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 25.797 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU026097.D

Acq: 14 Aug 2018 13:28

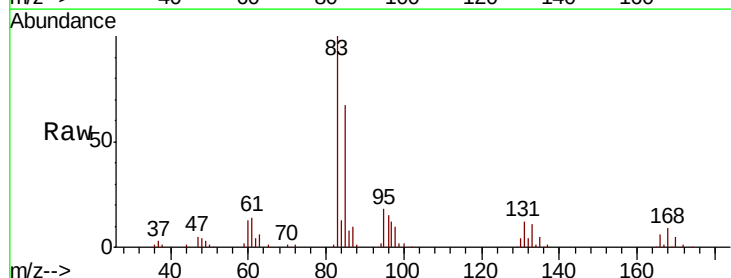
Tgt Ion: 83 Resp: 85747

Ion Ratio Lower Upper

83 100

85 66.9 45.0 83.6

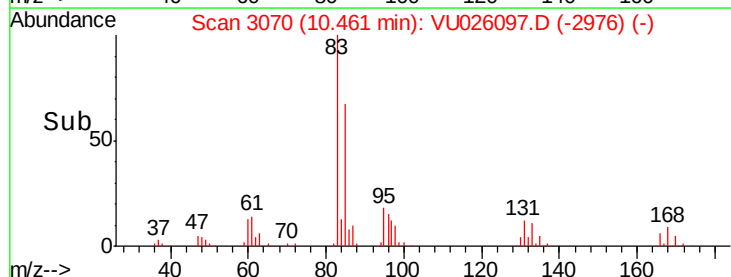
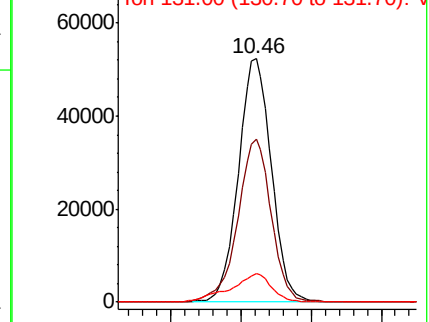
131 11.6 8.6 12.8

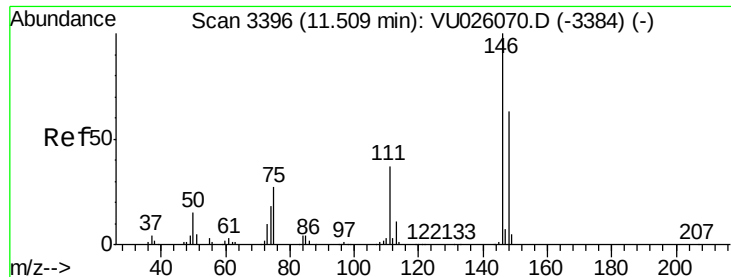


Abundance Ion 83.00 (82.70 to 83.70): VU026097.D (-2976) (-)

Ion 85.00 (84.70 to 85.70): VU026097.D (-2976) (-)

Ion 131.00 (130.70 to 131.70): VU026097.D (-2976) (-)

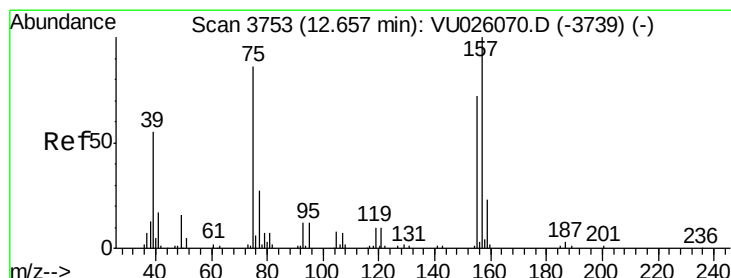
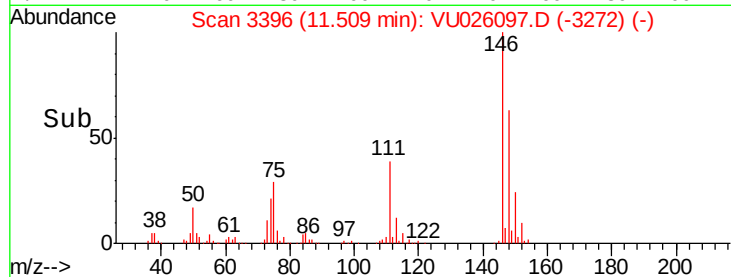
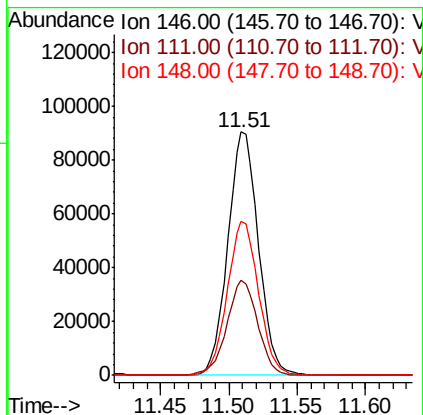
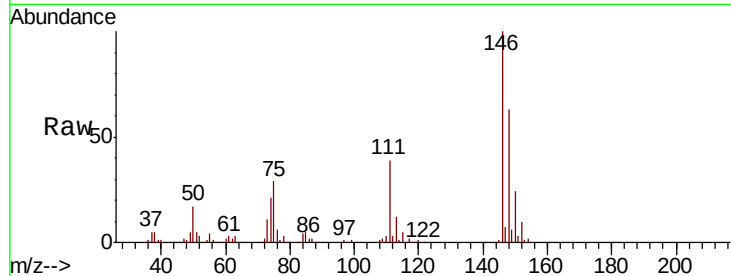




#63
 1,4-Dichlorobenzene
 Concen: 31.820 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

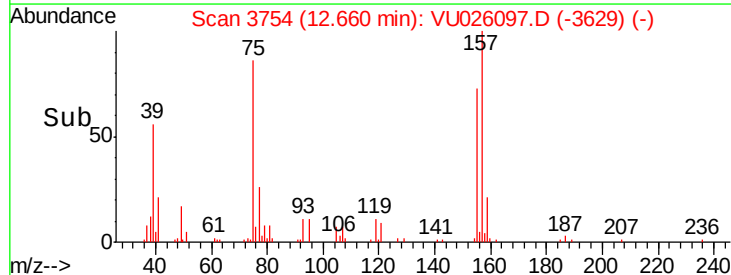
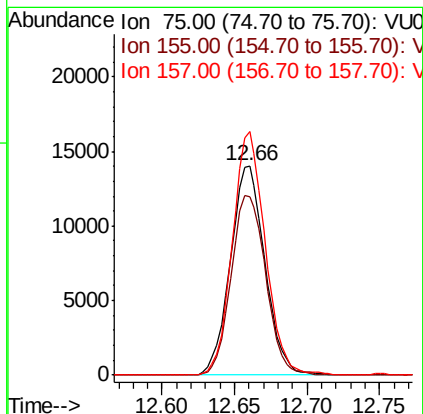
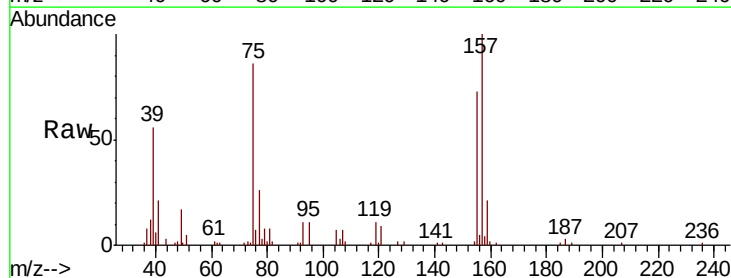
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZL2

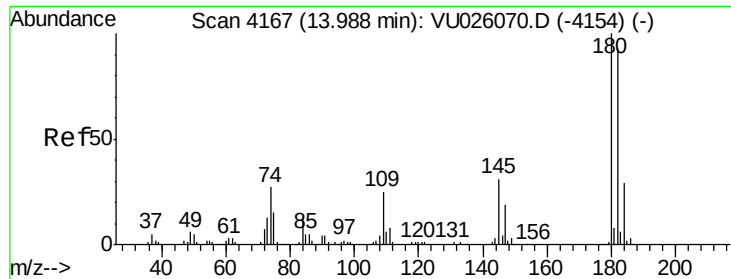
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	26.4	49.0
148	63.4	43.8	81.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 29.300 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.2	71.8	107.8
157	116.1	93.0	139.6





#70
 1,2,3-Trichlorobenzene
 Concen: 45.015 ug/L
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU026097.D
 Acq: 14 Aug 2018 13:28

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZL2

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.5	114.7
145	30.5	24.7	37.1

