

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121718\
 Data File : VU028744.D
 Acq On : 18 Dec 2018 01:34
 Operator : MD/SY
 Sample : J6413-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 18 07:38:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	80258	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	142407	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	125710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	44405	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	65117	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	
35) Dibromofluoromethane	4.88	113	47933	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	
50) Toluene-d8	7.56	98	182071	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
62) 4-Bromofluorobenzene	10.30	95	56560	42.69	ug/l	0.00
Spiked Amount			Recovery	=	85.38%	

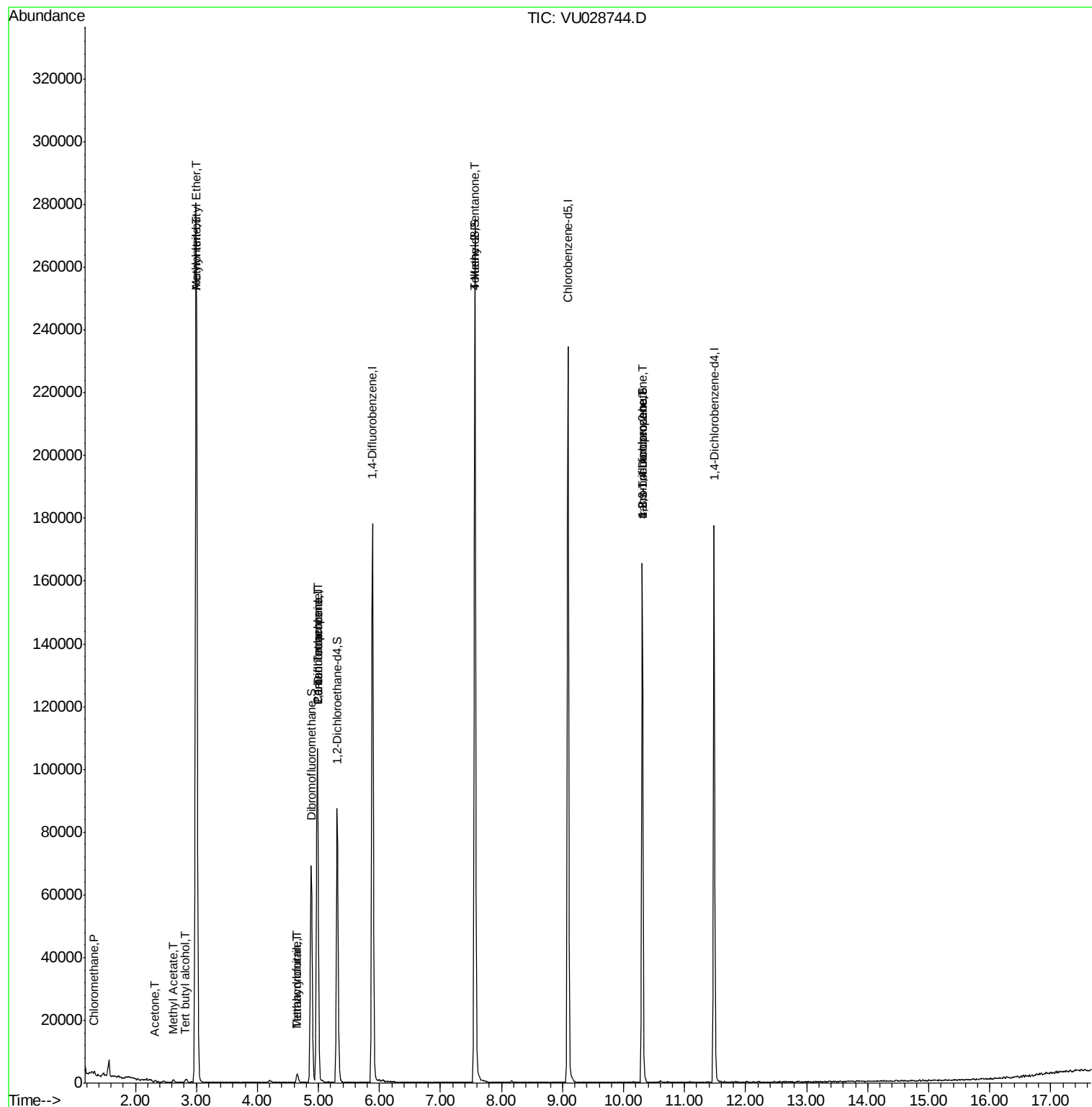
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	866	0.438	ug/l	98
11) Tert butyl alcohol	2.82	59	769	2.818	ug/l #	73
15) Acrylonitrile	3.00	53	2932	3.870	ug/l #	23
16) Acetone	2.32	43	359	0.449	ug/l #	44
18) Methyl Acetate	2.62	43	1253	0.605	ug/l #	67
19) Methyl tert-butyl Ether	3.00	73	283979	83.832	ug/l	100
29) Tetrahydrofuran	4.65	42	2537	3.617	ug/l #	81
31) Cyclohexane	4.98	56	2001	Below Cal	#	10
36) 1,1-Dichloropropene	4.98	75	7253	4.654	ug/l #	47
38) Carbon Tetrachloride	4.98	117	7653	6.093	ug/l #	15
41) Methacrylonitrile	4.65	41	1256	1.138	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	833	0.415	ug/l #	1
76) 1,2,3-Trichloropropane	10.30	75	29530	26.043	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	29530	63.884	ug/l #	100

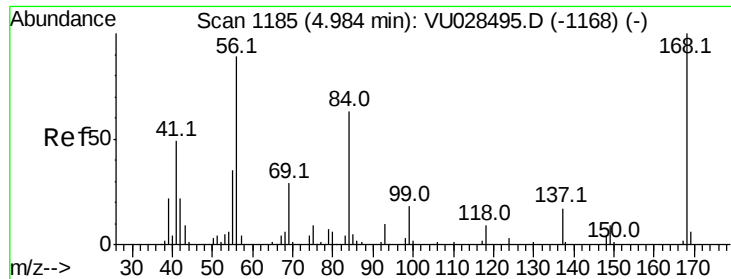
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

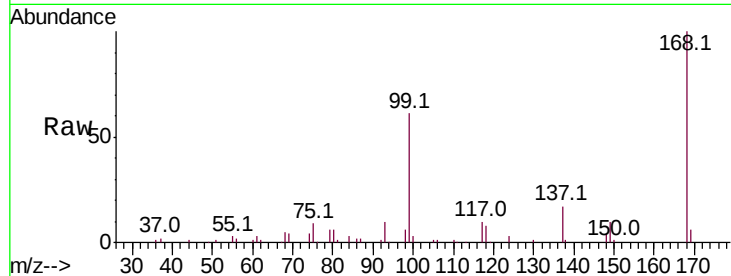
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 80258

Ion Ratio Lower Upper

168 100

99 61.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

30000

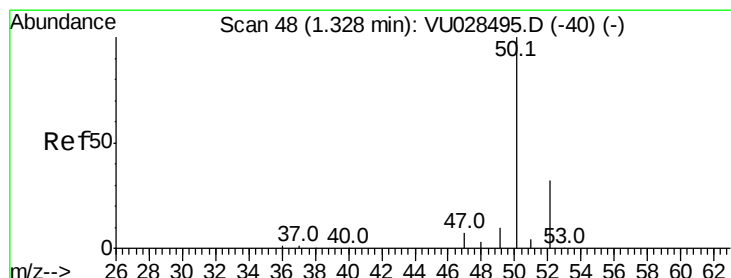
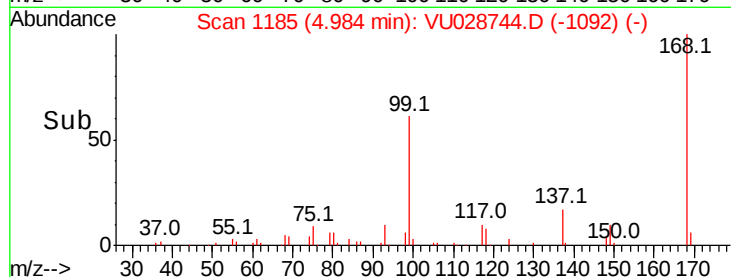
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.438 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028744.D

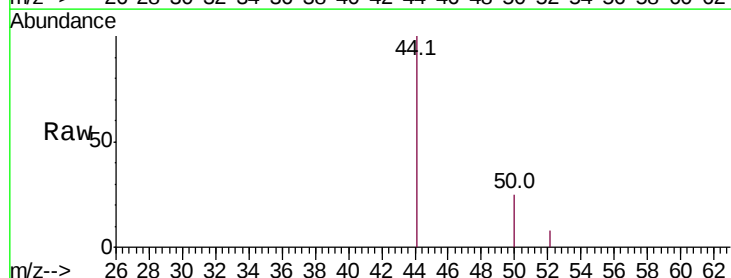
Acq: 18 Dec 2018 01:34

Tgt Ion: 50 Resp: 866

Ion Ratio Lower Upper

50 100

52 33.3 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

800

600

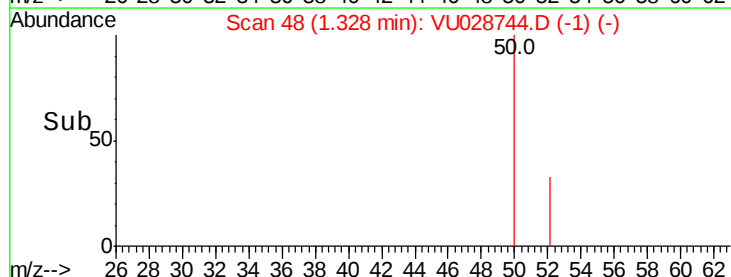
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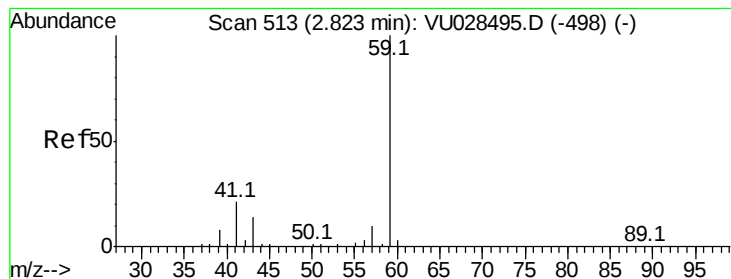
200

0

1.30 1.32 1.34 1.36

Time-->



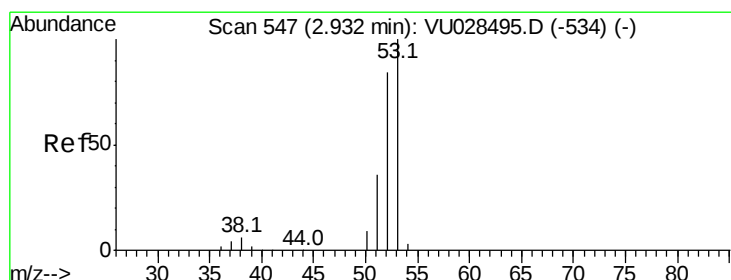
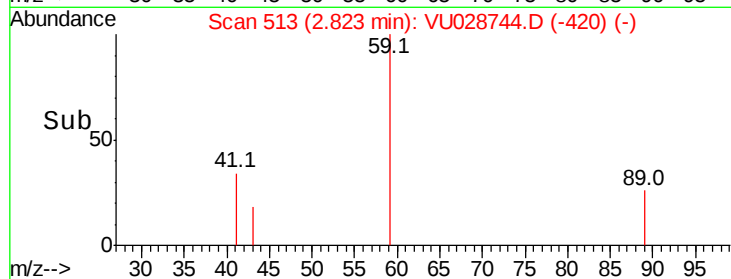
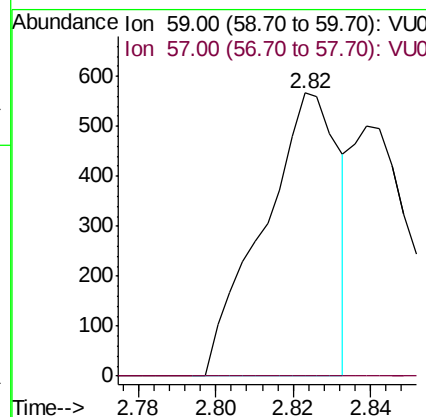
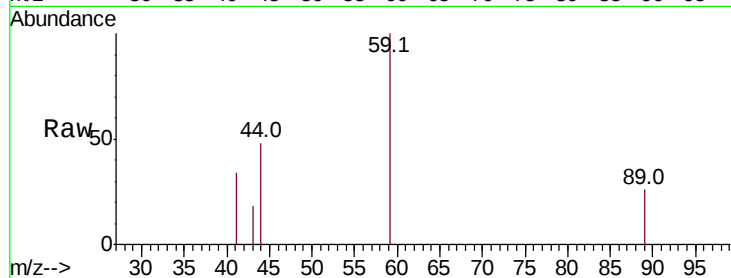


#11

Tert butyl alcohol
 Concen: 2.818 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. -0.00 min
 Lab File: VU028744.D
 Acq: 18 Dec 2018 01:34

Instrument :
 MSVOA_U
 ClientSampled :

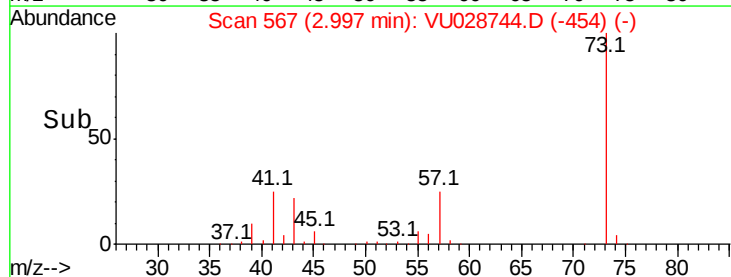
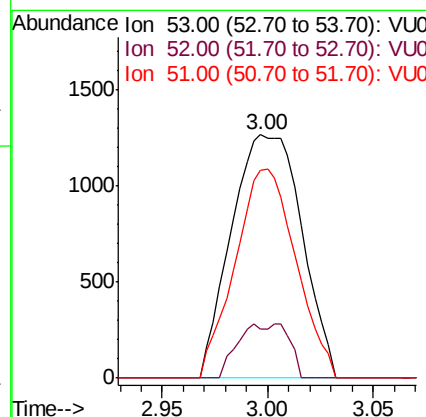
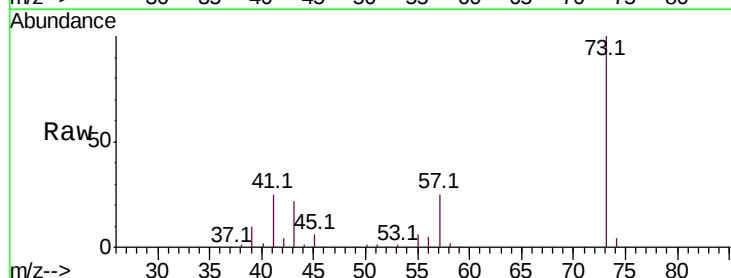
Tot Ion: 59 Resp: 769
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

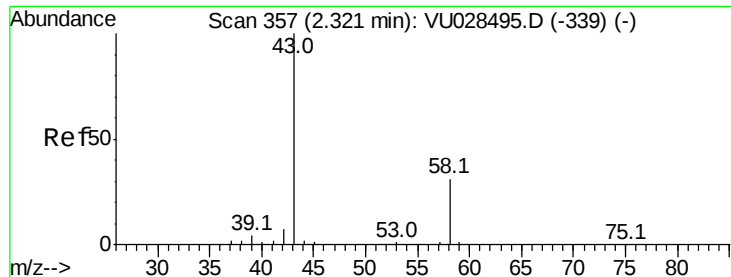


#15

Acrylonitrile
 Concen: 3.870 ug/l
 RT: 3.00 min Scan# 567
 Delta R.T. 0.06 min
 Lab File: VU028744.D
 Acq: 18 Dec 2018 01:34

Tgt Ion: 53 Resp: 2932
 Ion Ratio Lower Upper
 53 100
 52 9.9 66.1 99.1#
 51 74.2 28.1 42.1#





#16

Acetone

Concen: 0.449 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

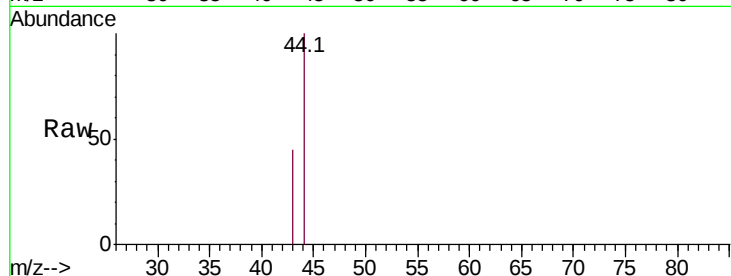
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 359

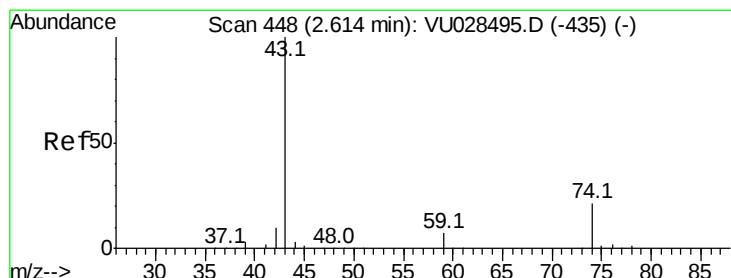
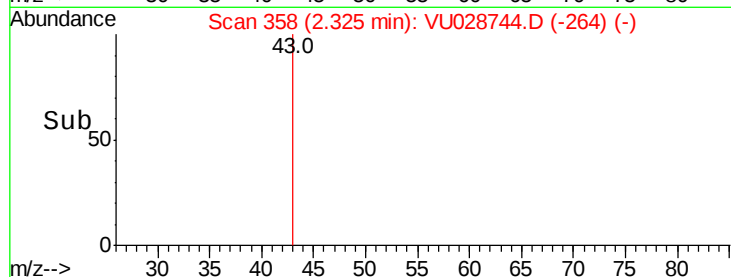
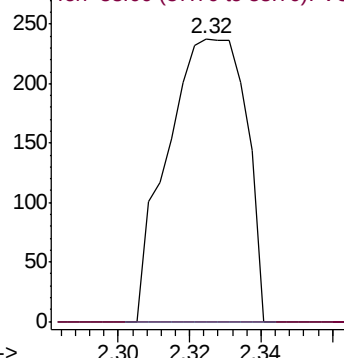
Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



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



#18

Methyl Acetate

Concen: 0.605 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028744.D

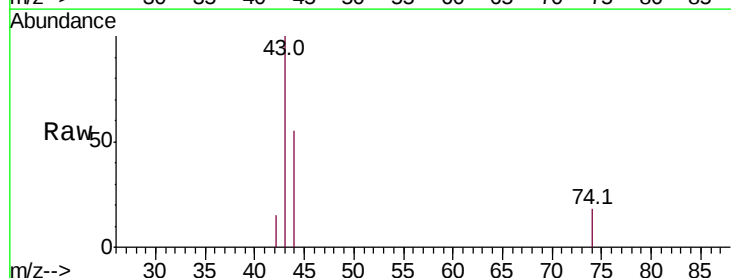
Acq: 18 Dec 2018 01:34

Tgt Ion: 43 Resp: 1253

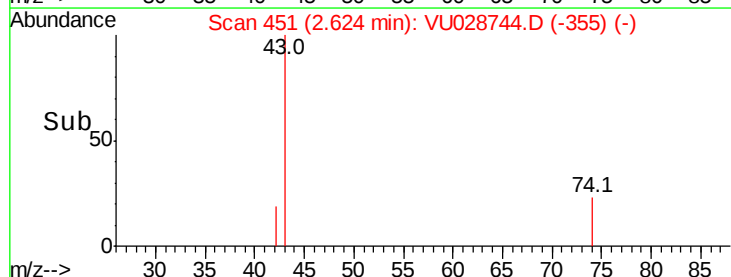
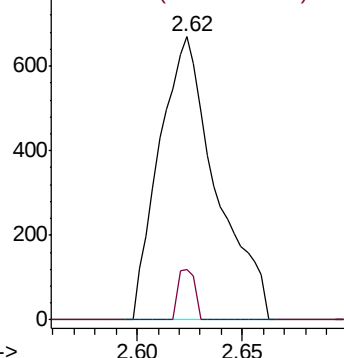
Ion Ratio Lower Upper

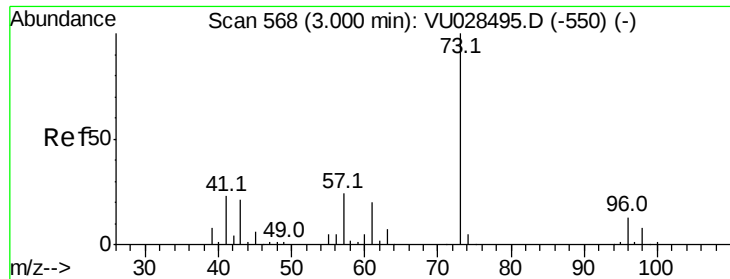
43 100

74 5.3 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 74.00 (73.70 to 74.70): VU0

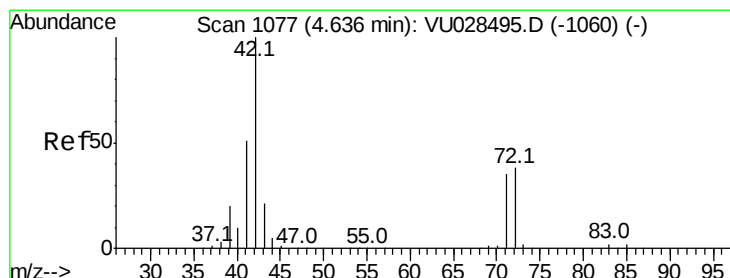
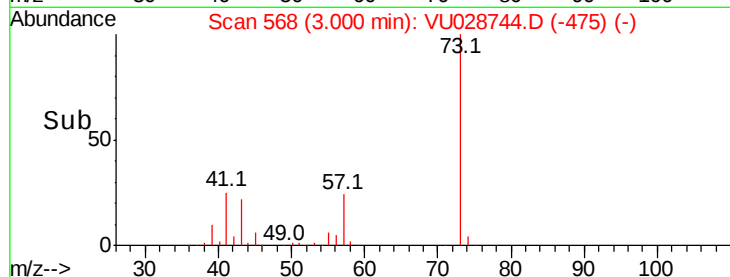
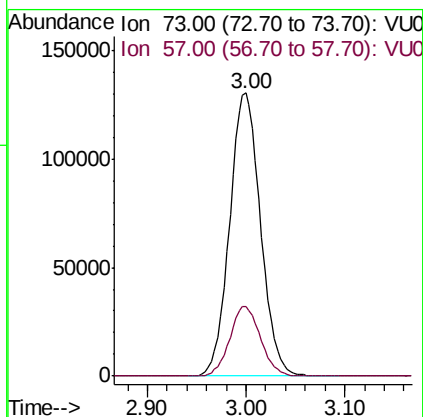
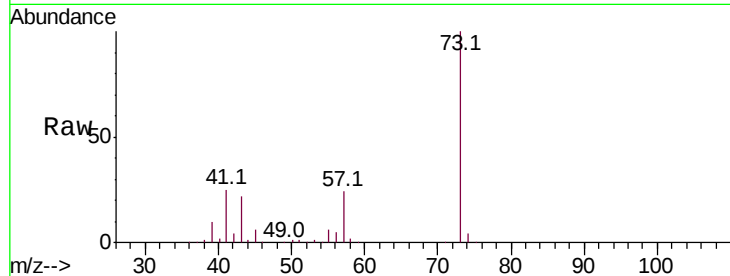




#19
Methvl tert-butvl Ether
Concen: 83.832 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

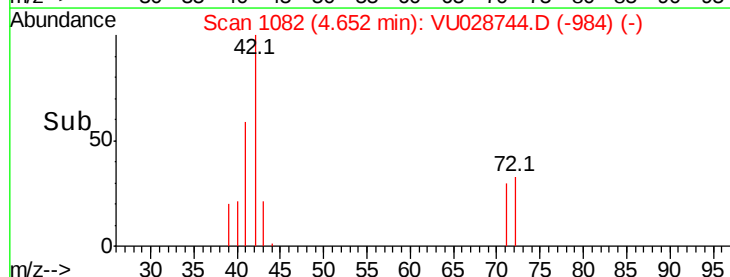
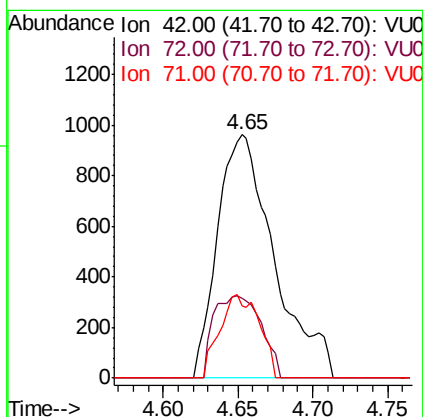
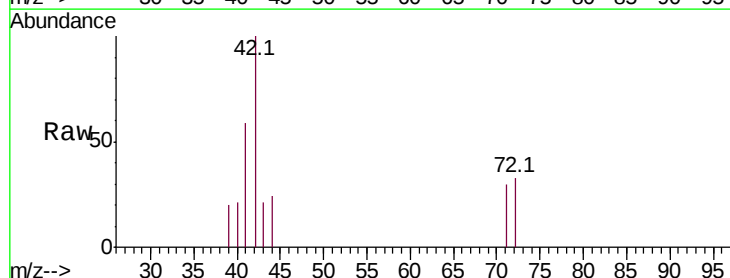
Instrument :
MSVOA_U
ClientSampled :

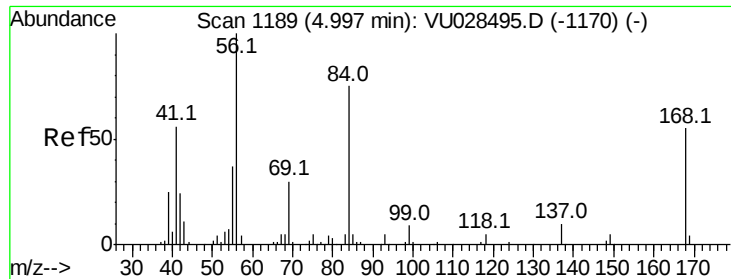
Tot Ion: 73 Resp: 283979
Ion Ratio Lower Upper
73 100
57 24.5 19.4 29.2



#29
Tetrahydrofuran
Concen: 3.617 ug/l
RT: 4.65 min Scan# 1082
Delta R.T. 0.02 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

Tgt Ion: 42 Resp: 2537
Ion Ratio Lower Upper
42 100
72 28.1 31.4 47.0#
71 23.8 28.6 43.0#

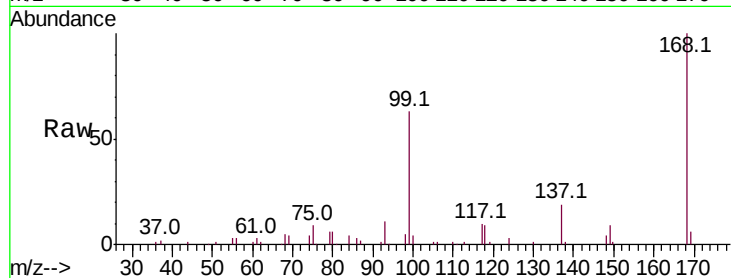




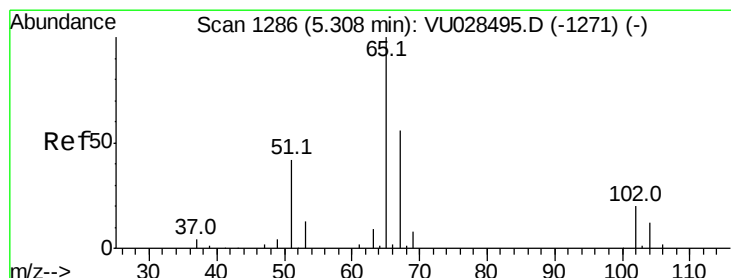
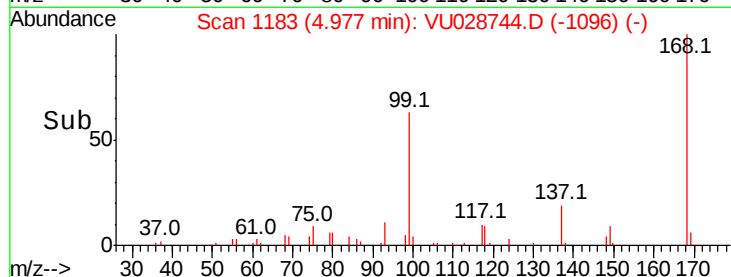
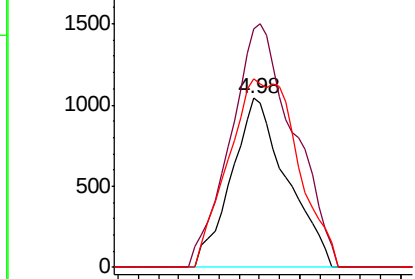
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 2001
Ion Ratio Lower Upper
56 100
69 141.0 24.0 36.0#
84 111.9 59.7 89.5#

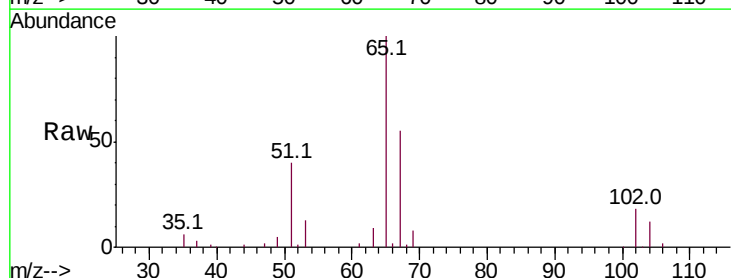


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

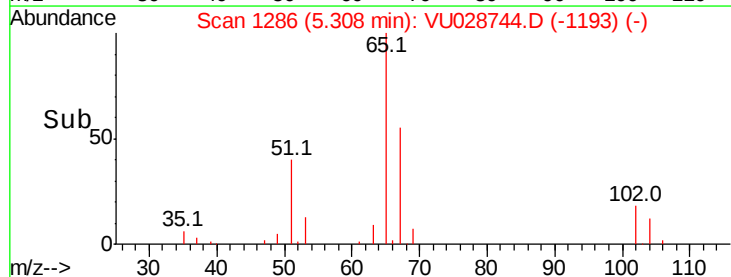
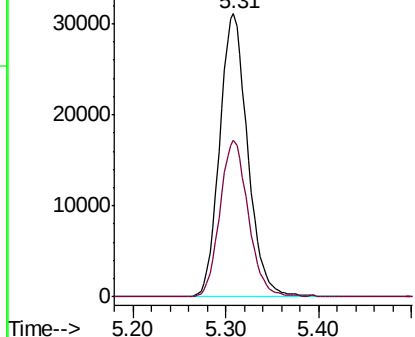


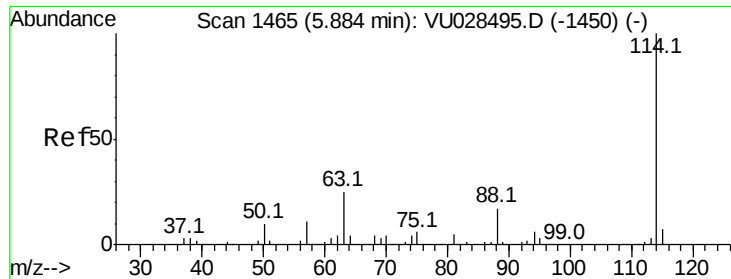
#33
1,2-Dichloroethane-d4
Concen: 53.166 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

Tgt Ion: 65 Resp: 65117
Ion Ratio Lower Upper
65 100
67 55.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

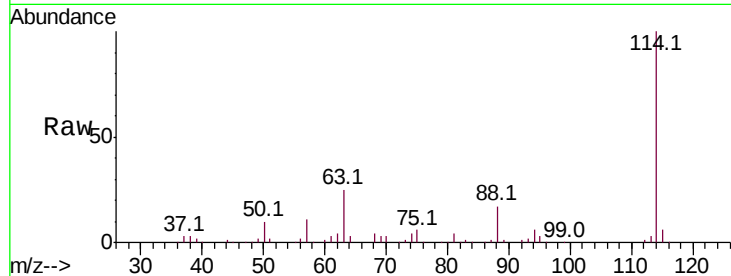




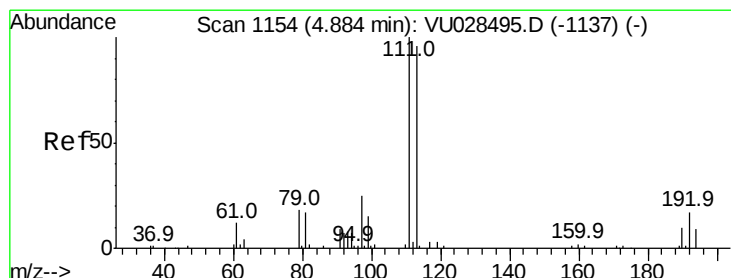
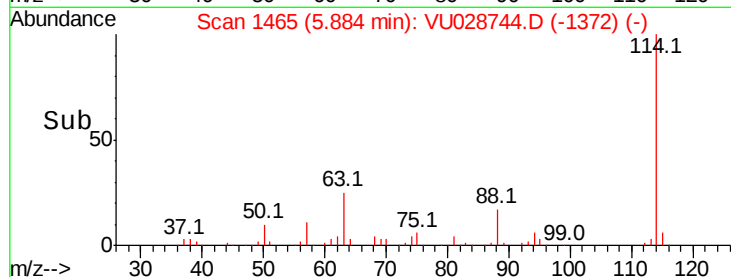
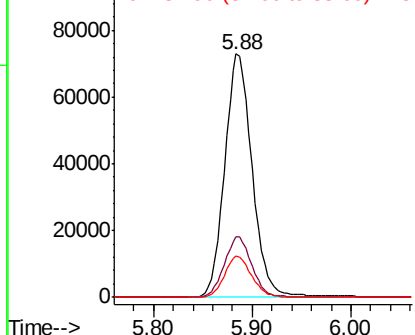
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028744.D
 Acq: 18 Dec 2018 01:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.8	0.0	49.2
88	16.7	0.0	33.4

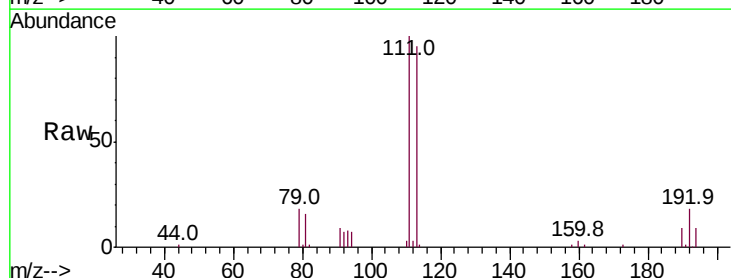


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

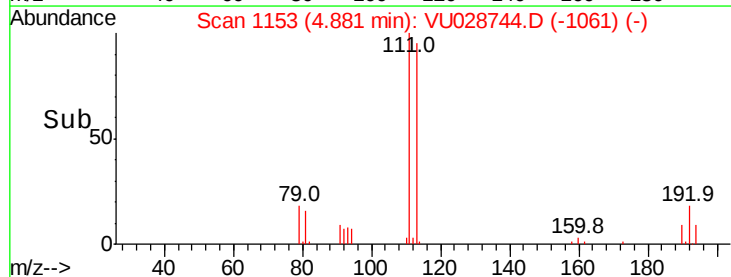
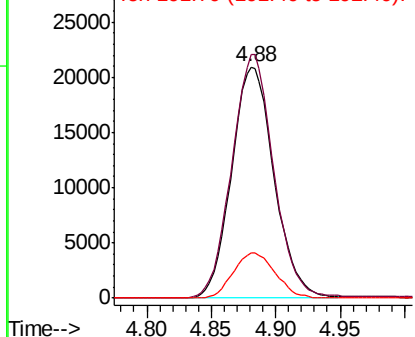


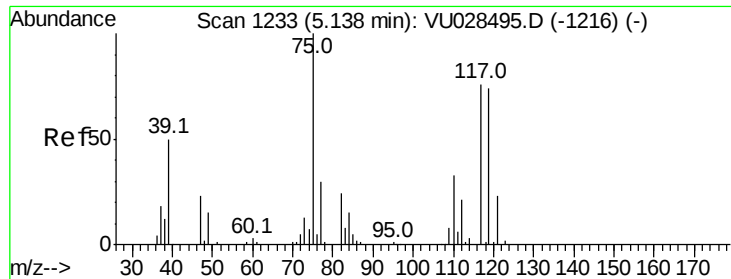
#35
 Dibromofluoromethane
 Concen: 53.486 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028744.D
 Acq: 18 Dec 2018 01:34

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.4	125.0
192	19.4	14.8	22.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

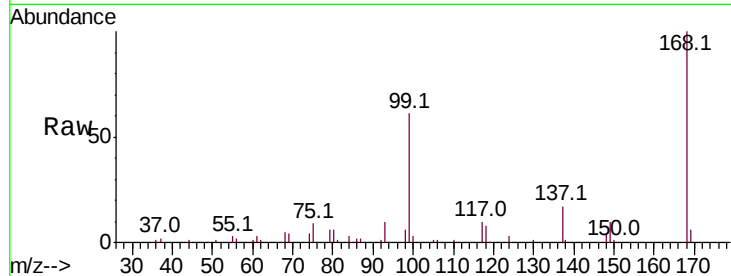




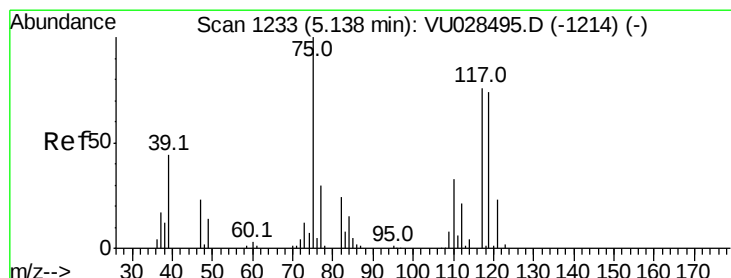
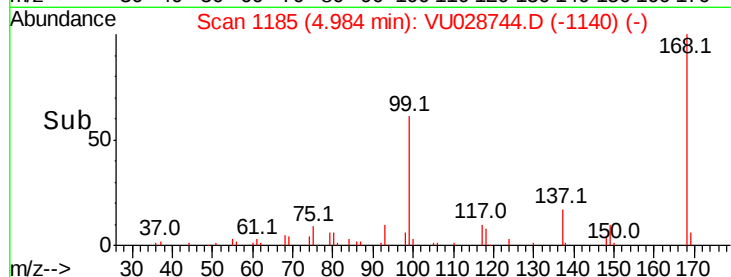
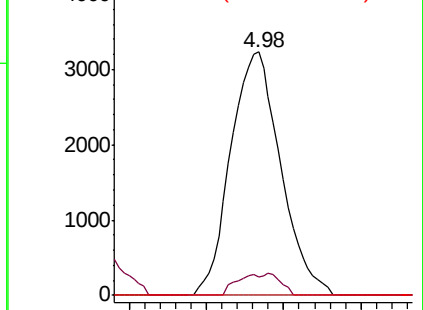
#36
 1,1-Dichloropropene
 Concen: 4.654 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028744.D
 Acq: 18 Dec 2018 01:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.0	16.1	48.2#
77	0.0	24.5	36.7#

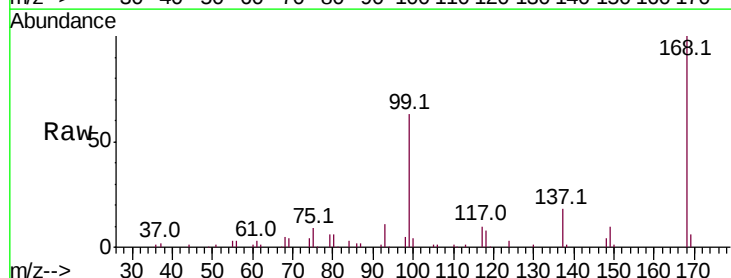


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

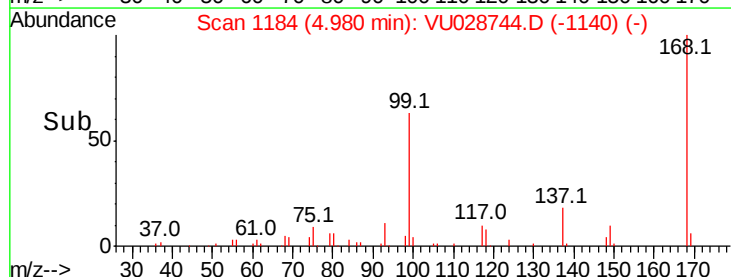
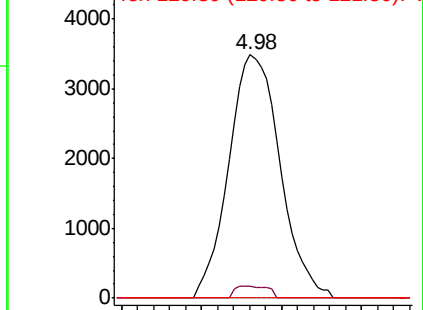


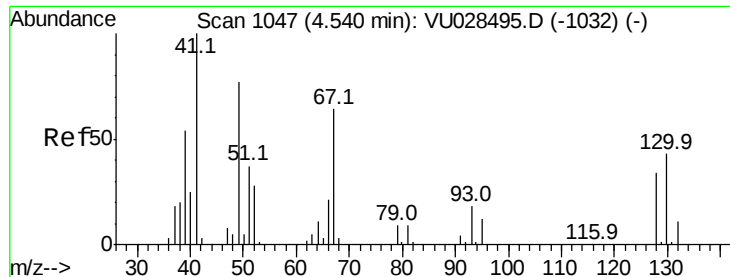
#38
 Carbon Tetrachloride
 Concen: 6.093 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028744.D
 Acq: 18 Dec 2018 01:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	77.6	116.4#
121	0.0	24.6	36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

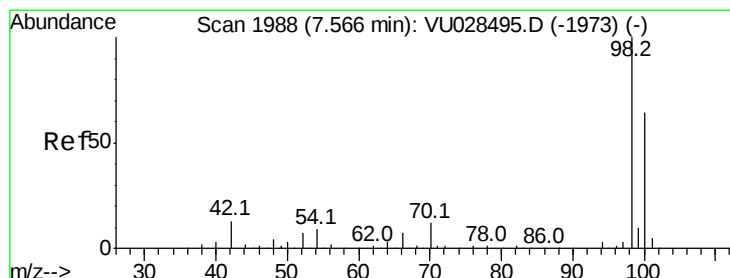
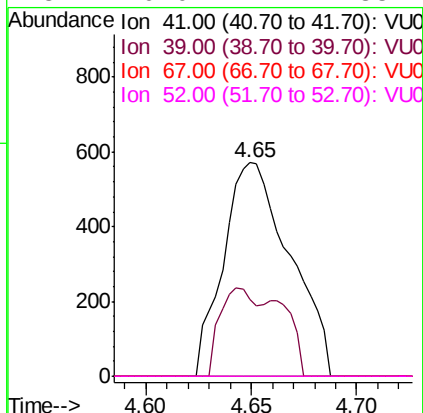
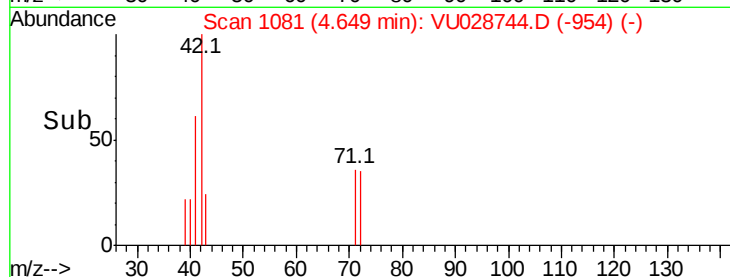
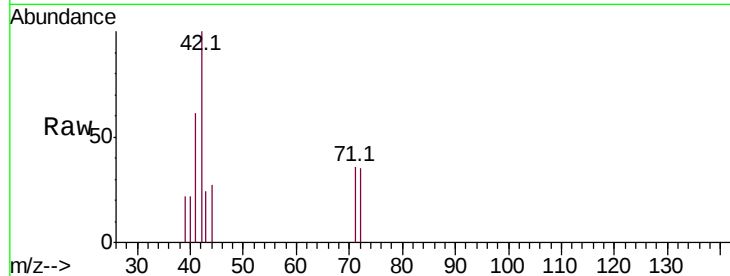




#41
Methacrylonitrile
Concen: 1.138 ug/l
RT: 4.65 min Scan# 1081
Delta R.T. 0.11 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

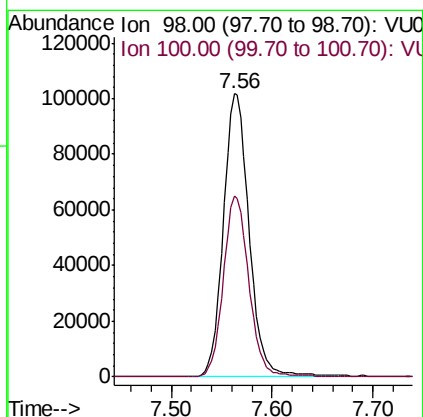
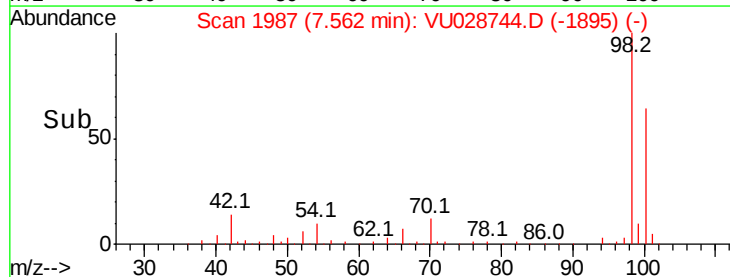
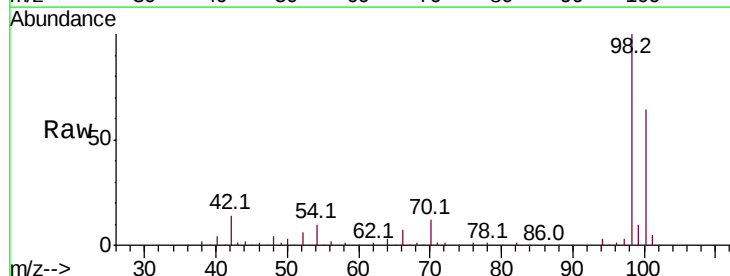
Instrument :
MSVOA_U
ClientSampleId :

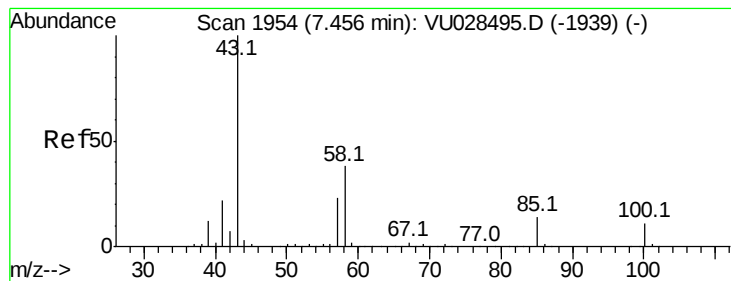
Tot Ion: 41 Resp: 1256
Ion Ratio Lower Upper
41 100
39 21.6 43.3 64.9#
67 0.0 53.6 80.4#
52 0.0 22.1 33.1#



#50
Toluene-d8
Concen: 51.358 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

Tgt Ion: 98 Resp: 182071
Ion Ratio Lower Upper
98 100
100 63.5 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 0.415 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

Instrument :

MSVOA_U

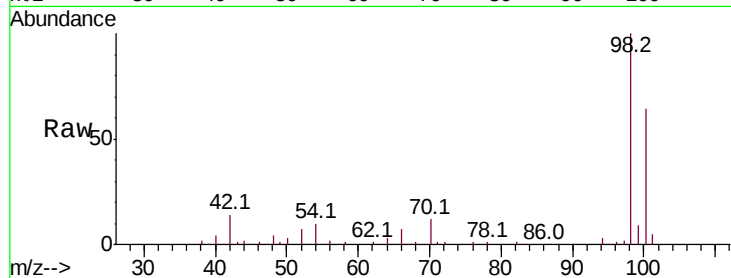
ClientSampled :

Tot Ion: 43 Resp: 833

Ion Ratio Lower Upper

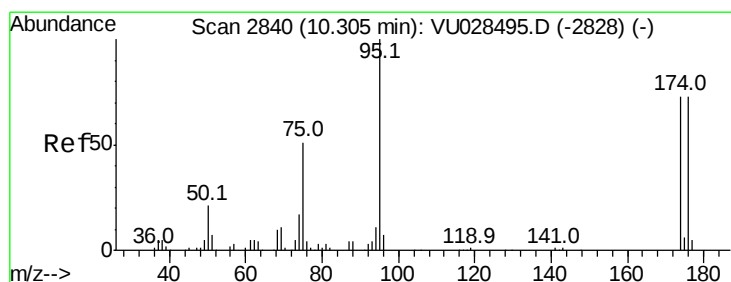
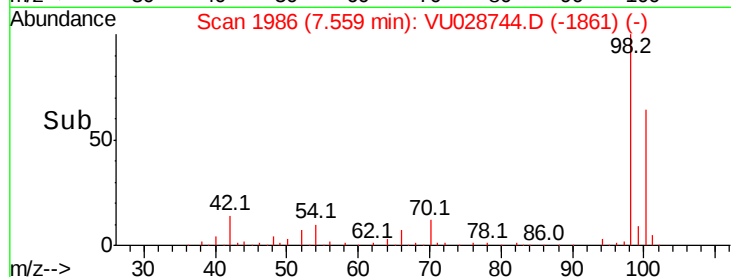
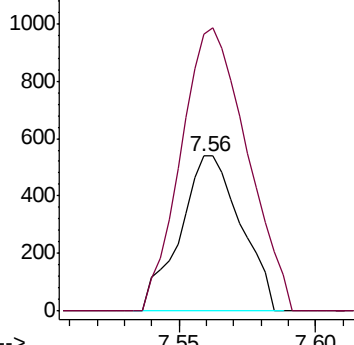
43 100

58 198.7 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 42.686 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

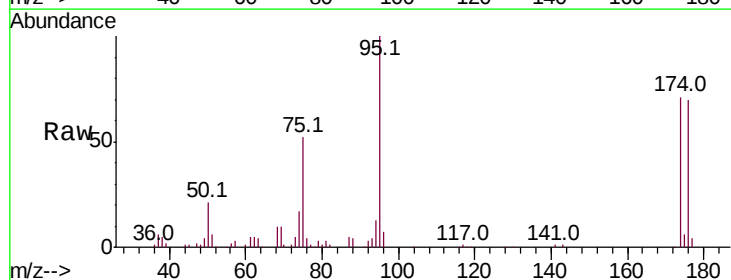
Tgt Ion: 95 Resp: 56560

Ion Ratio Lower Upper

95 100

174 73.8 0.0 150.4

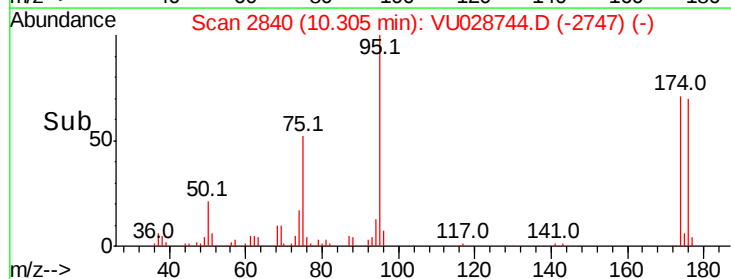
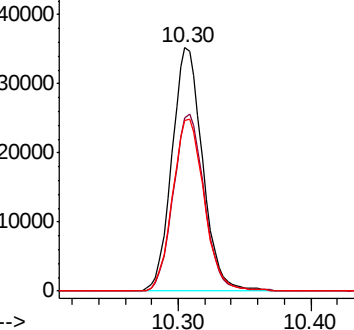
176 72.8 0.0 145.2

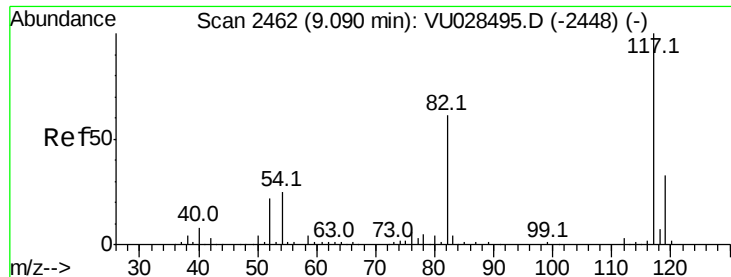


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

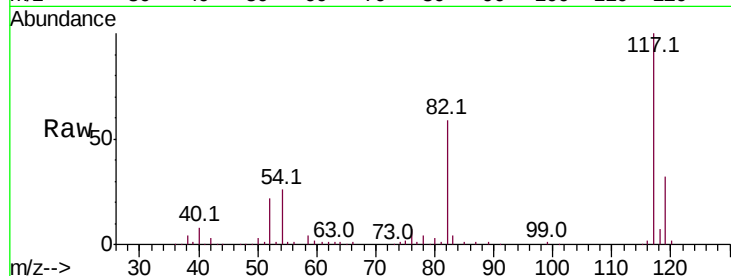




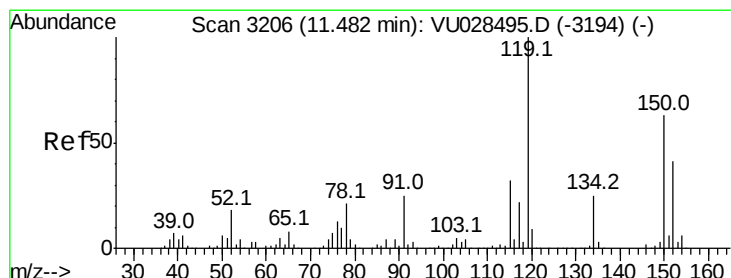
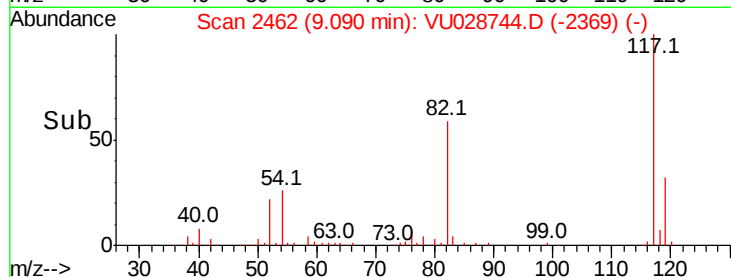
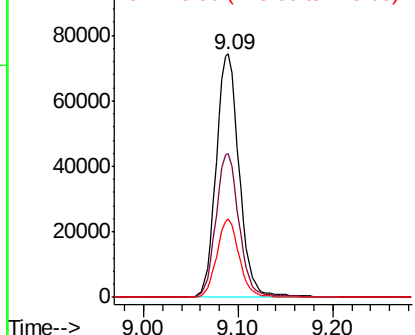
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 125710
Ion Ratio Lower Upper
117 100
82 59.1 48.9 73.3
119 32.0 26.2 39.4

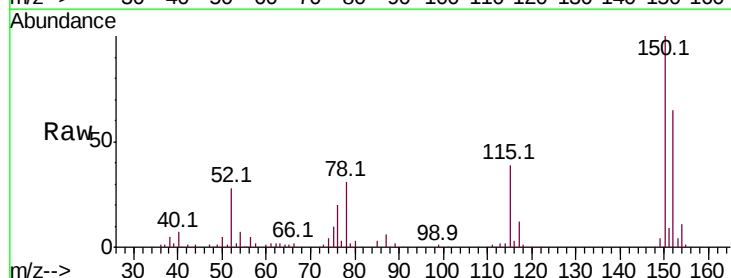


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

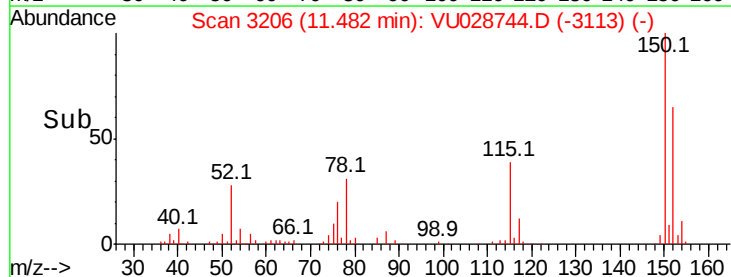
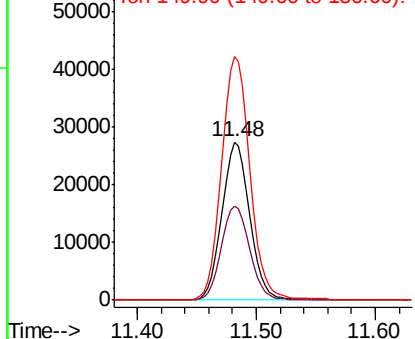


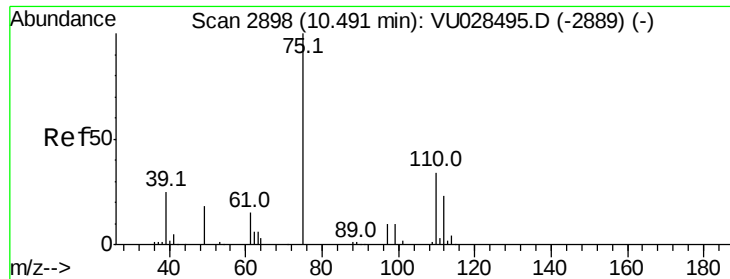
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028744.D
Acq: 18 Dec 2018 01:34

Tgt Ion:152 Resp: 44405
Ion Ratio Lower Upper
152 100
115 60.3 42.7 128.1
150 156.4 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.043 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

Instrument :

MSVOA_U

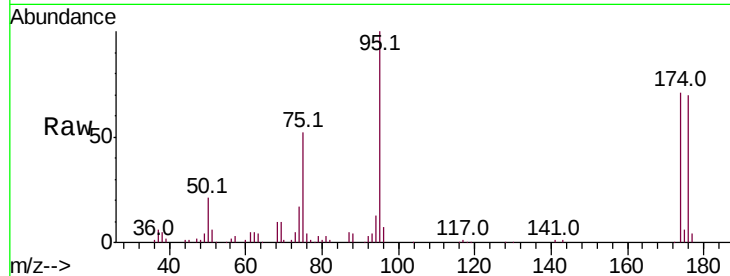
ClientSampleId :

Tot Ion: 75 Resp: 29530

Ion Ratio Lower Upper

75 100

77 0.9 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

20000

15000

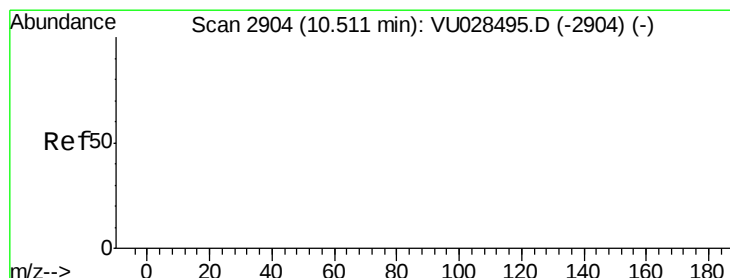
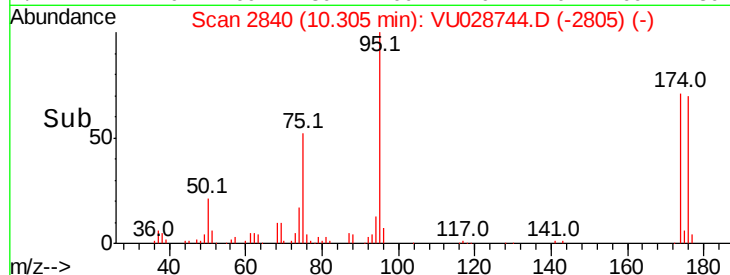
10000

5000

0

10.25 10.30 10.35 10.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.884 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

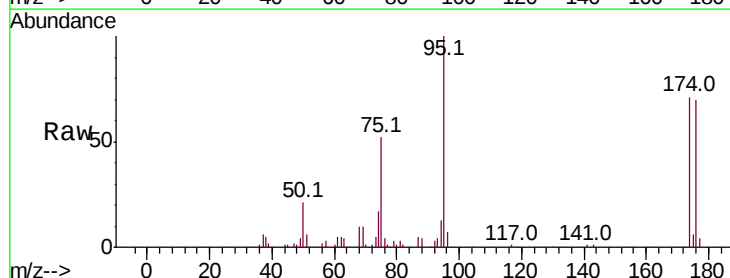
Tgt Ion: 75 Resp: 29530

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

25000

20000

15000

10000

5000

0

10.25 10.30 10.35 10.40

Time-->

