

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
 Data File : VU027153.D
 Acq On : 26 Sep 2018 02:06
 Operator : MD/SY
 Sample : J4968-11
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ143I-20180916

Quant Time: Sep 26 06:03:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	90720	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	153368	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	146749	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	68861	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	98101	53.73	ug/l	0.00
Spiked Amount			Recovery	=	107.46%	
35) Dibromofluoromethane	4.89	113	66326	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
50) Toluene-d8	7.57	98	249497	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
62) 4-Bromofluorobenzene	10.31	95	80294	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	

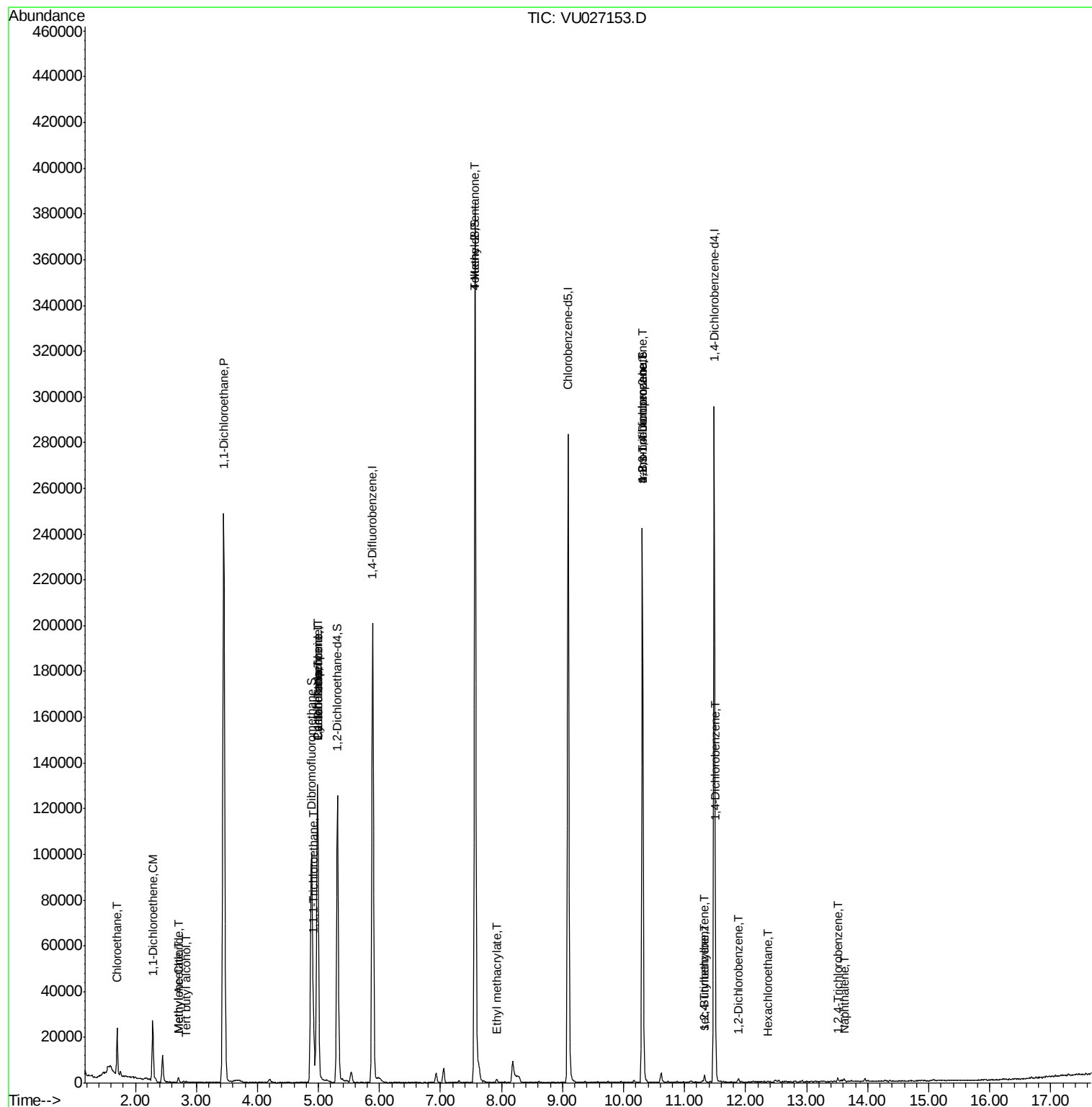
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	13540	11.117	ug/l	100
11) Tert butyl alcohol	2.82	59	229	0.547	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	7727	6.167	ug/l	93
16) Acetone	2.32	43	2427	Below Cal		98
18) Methyl Acetate	2.70	43	915	0.352	ug/l #	55
20) Methylene Chloride	2.70	84	332	0.203	ug/l	90
24) 1,1-Dichloroethane	3.45	63	279541	93.374	ug/l	99
31) Cyclohexane	4.98	56	2584	0.379	ug/l #	1
32) 1,1,1-Trichloroethane	4.92	97	16506	7.439	ug/l	98
36) 1,1-Dichloropropene	4.99	75	8851	4.324	ug/l #	48
38) Carbon Tetrachloride	4.99	117	9474	4.864	ug/l #	18
51) 4-Methyl-2-Pentanone	7.57	43	1288	0.474	ug/l #	1
56) Ethyl methacrylate	7.92	69	202	2.267	ug/l #	31
76) 1,2,3-Trichloropropane	10.31	75	42648	20.386	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	42648	65.240	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.33	105	2449	0.557	ug/l #	31
85) sec-Butylbenzene	11.33	105	2449	0.469	ug/l	90
88) 1,4-Dichlorobenzene	11.51	146	1453	0.560	ug/l #	53
90) Hexachloroethane	12.36	117	257	0.271	ug/l #	13
91) 1,2-Dichlorobenzene	11.88	146	759	0.300	ug/l	93
93) 1,2,4-Trichlorobenzene	13.51	180	773	0.530	ug/l	81
95) Naphthalene	13.61	128	87	1.704	ug/l #	69

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092618\
Data File : VU027153.D
Acq On : 26 Sep 2018 02:06
Operator : MD/SY
Sample : J4968-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ143I-20180916

Quant Time: Sep 26 06:03:47 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

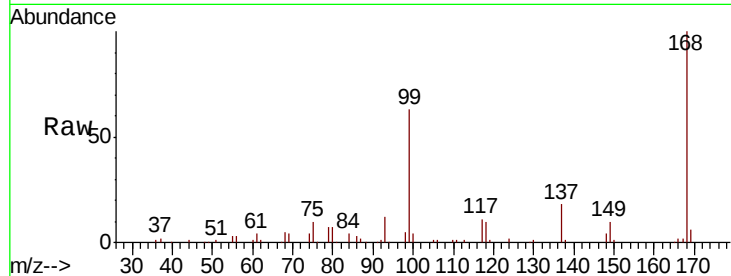
SA-PZ143I-20180916

Tot Ion:168 Resp: 90720

Ion Ratio Lower Upper

168 100

99 62.7 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

40000

30000

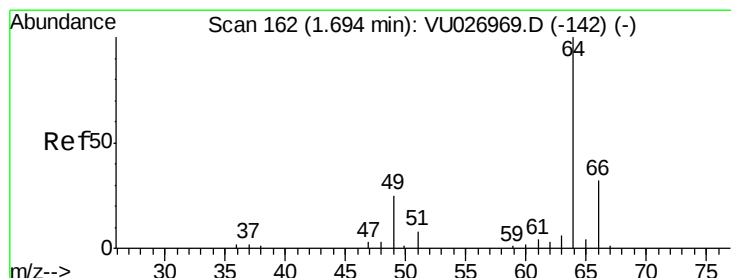
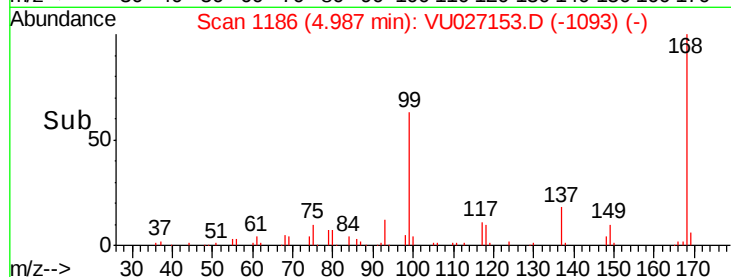
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#6

Chloroethane

Concen: 11.117 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU027153.D

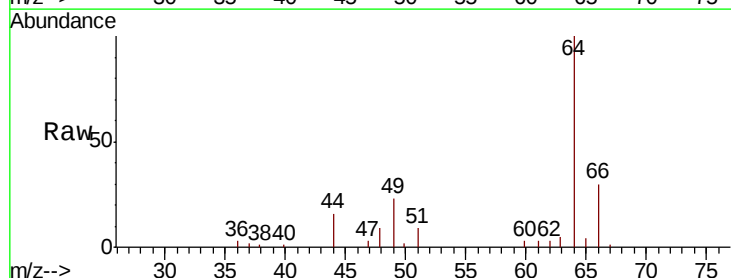
Acq: 26 Sep 2018 02:06

Tgt Ion: 64 Resp: 13540

Ion Ratio Lower Upper

64 100

66 31.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

1.70

12000

10000

8000

6000

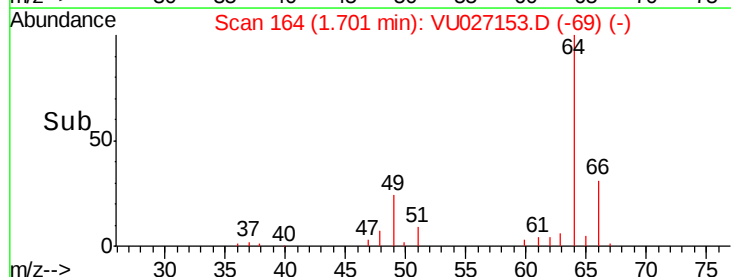
4000

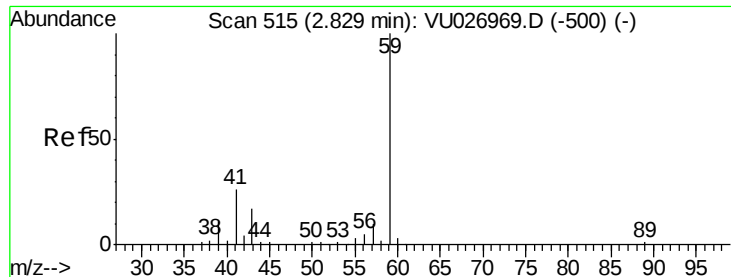
2000

0

1.65 1.70 1.75

Time-->

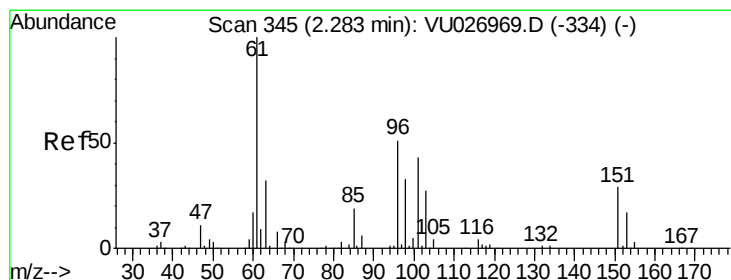
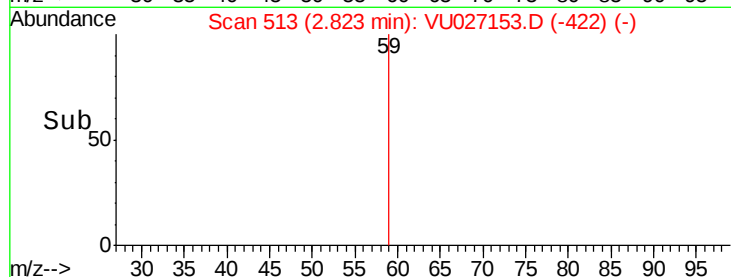
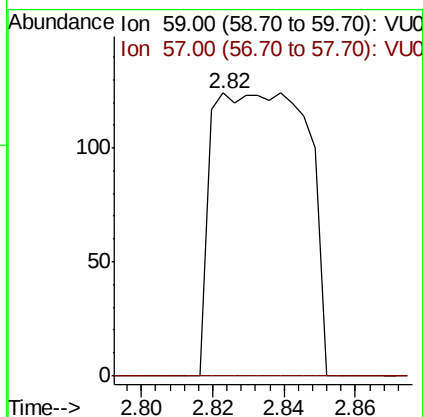
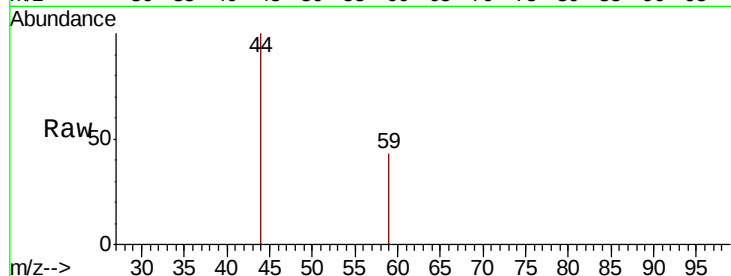




#11
Tert butyl alcohol
Concen: 0.547 ug/l
RT: 2.82 min Scan# 513
Delta R.T. -0.01 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

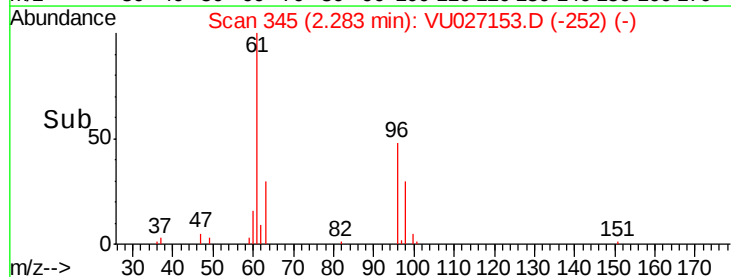
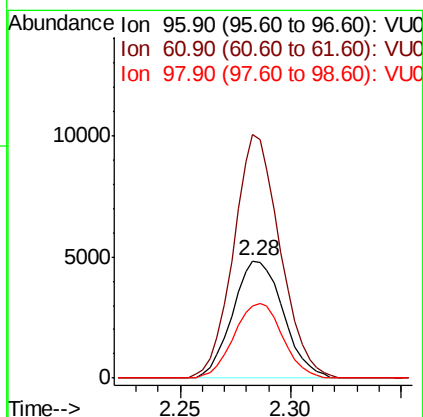
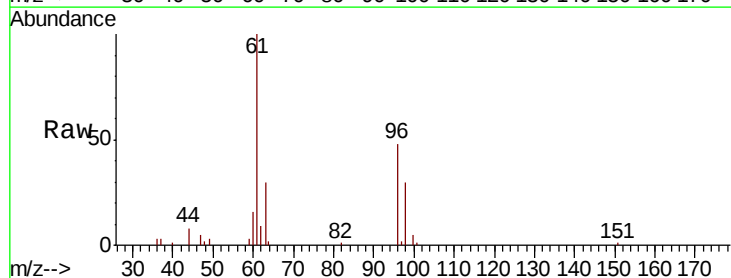
Instrument :
MSVOA_U
ClientSampleId :
SA-PZ143I-20180916

Tot Ion: 59 Resp: 229
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 6.167 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

Tgt Ion: 96 Resp: 7727
Ion Ratio Lower Upper
96 100
61 207.5 156.1 234.1
98 61.8 51.4 77.0





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

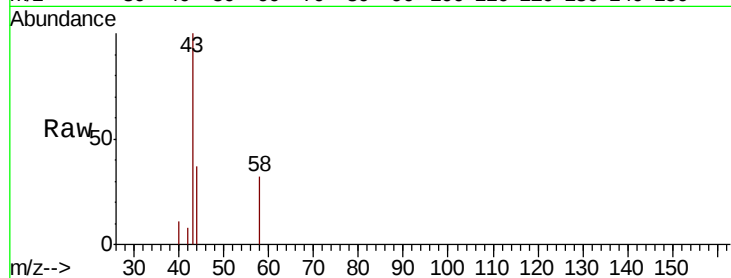
SA-PZ143I-20180916

Tot Ion: 43 Resp: 2427

Ion Ratio Lower Upper

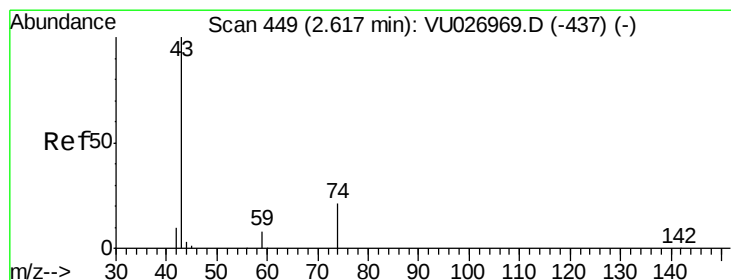
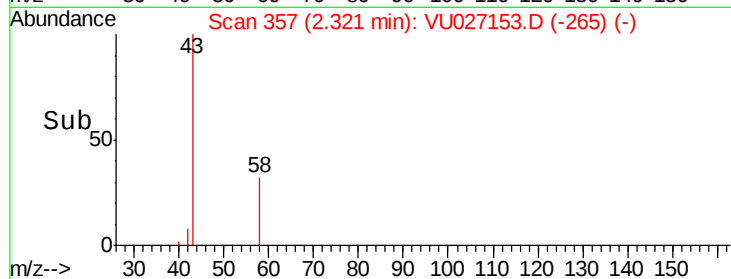
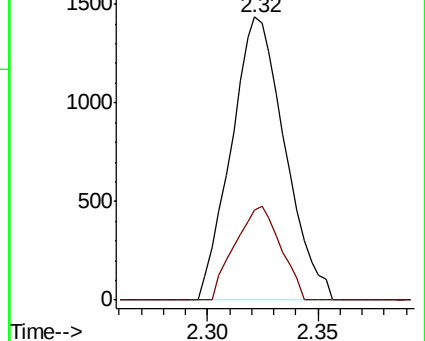
43 100

58 32.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 0.352 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.08 min

Lab File: VU027153.D

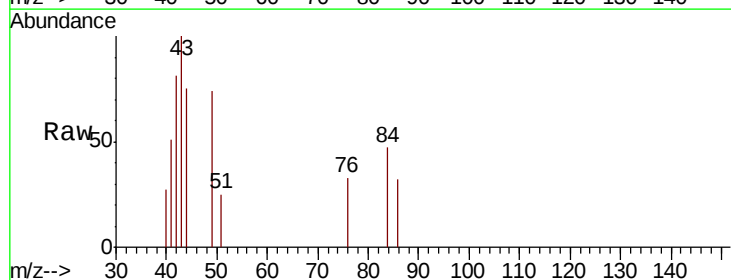
Acq: 26 Sep 2018 02:06

Tgt Ion: 43 Resp: 915

Ion Ratio Lower Upper

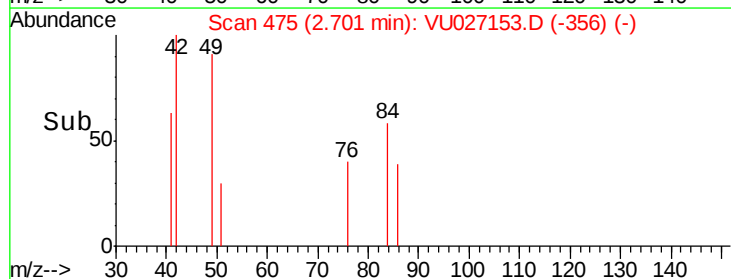
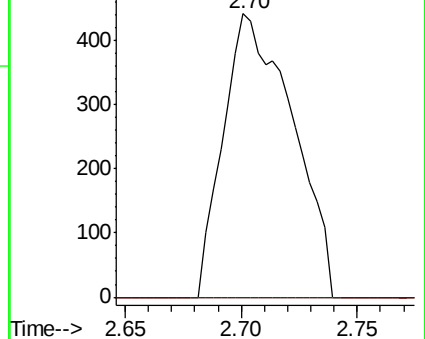
43 100

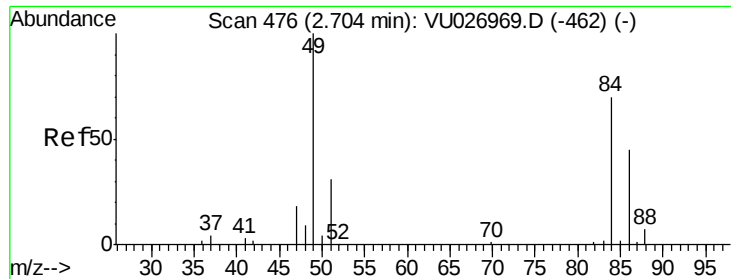
74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#20

Methvlene Chloride

Concen: 0.203 ug/l

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ143I-20180916

Tot Ion: 84 Resp: 332

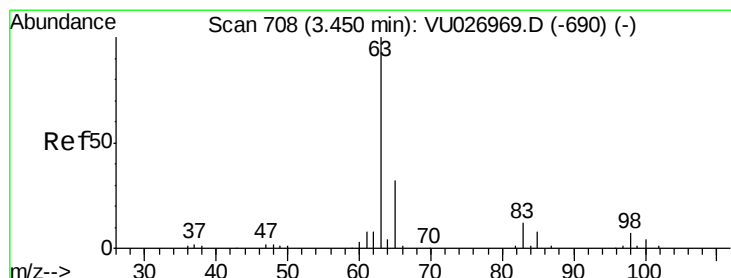
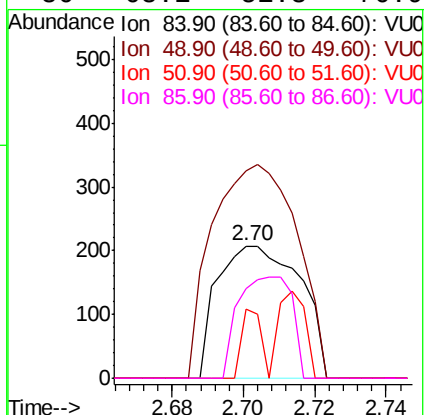
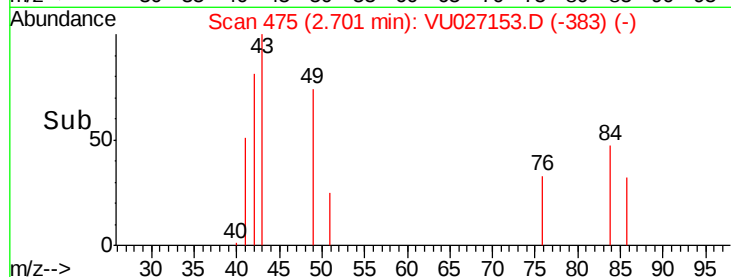
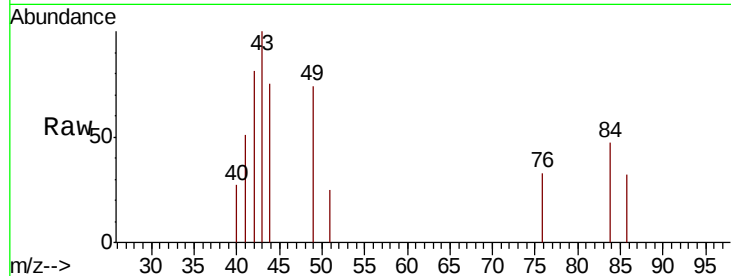
Ion Ratio Lower Upper

84 100

49 157.5 114.9 172.3

51 52.7 35.8 53.8

86 68.1 51.3 76.9



#24

1,1-Dichloroethane

Concen: 93.374 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

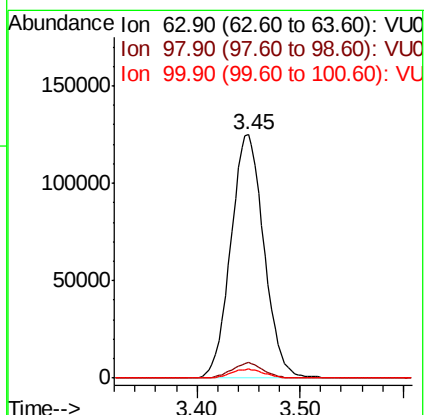
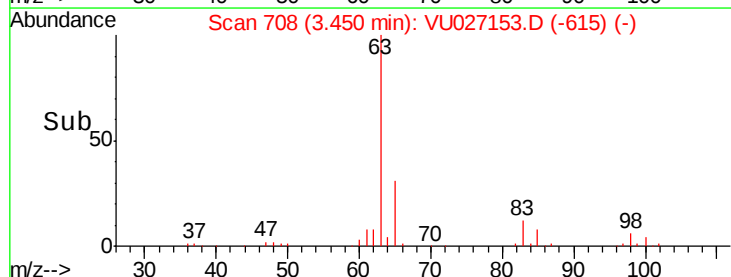
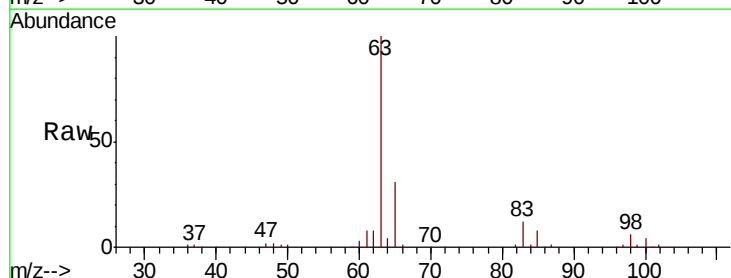
Tgt Ion: 63 Resp: 279541

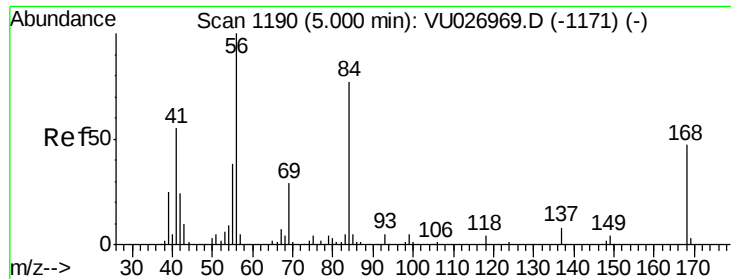
Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.8

100 3.6 2.0 5.8

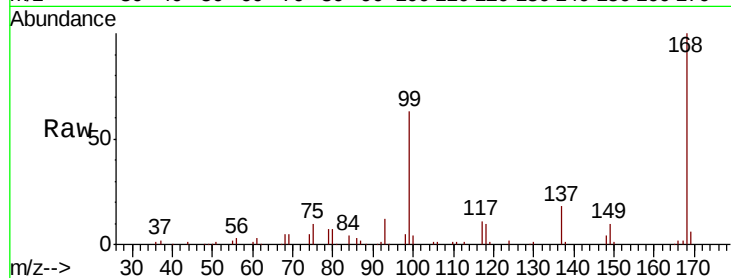




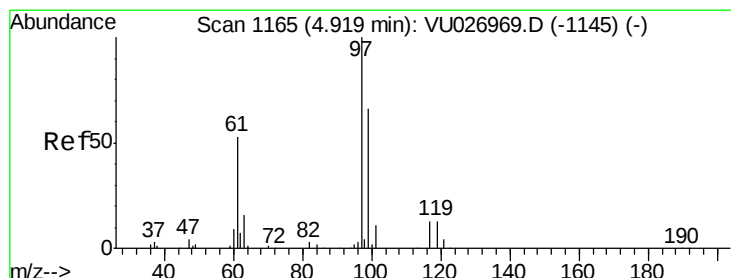
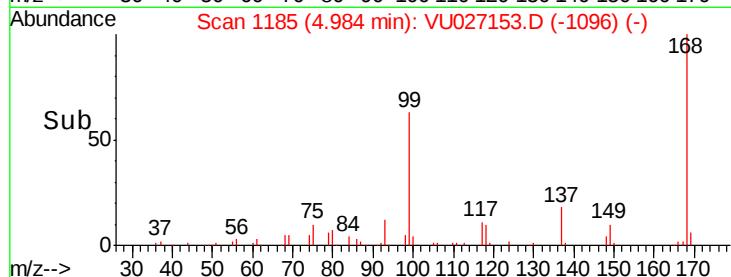
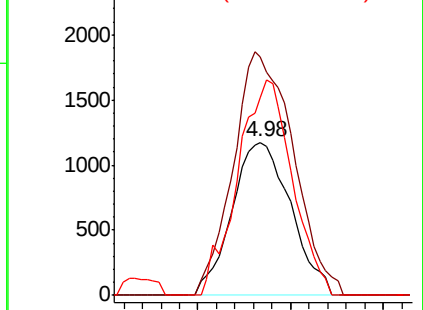
#31
Cyclohexane
Concen: 0.379 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.02 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ143I-20180916

Tot Ion: 56 Resp: 2584
Ion Ratio Lower Upper
56 100
69 156.2 23.0 34.4#
84 129.1 61.4 92.2#

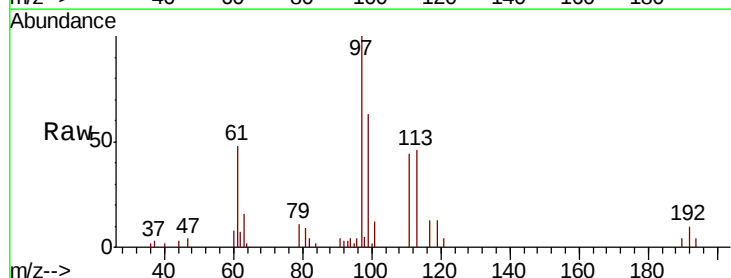


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

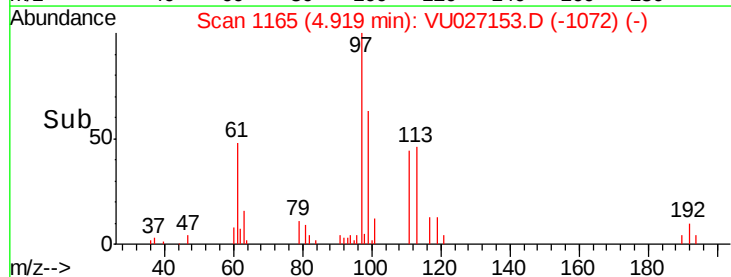
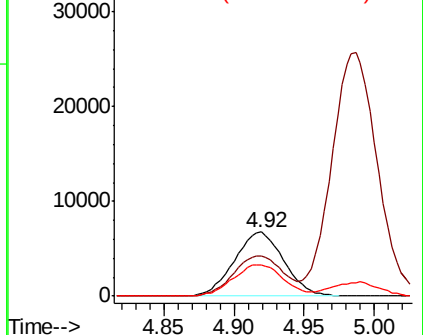


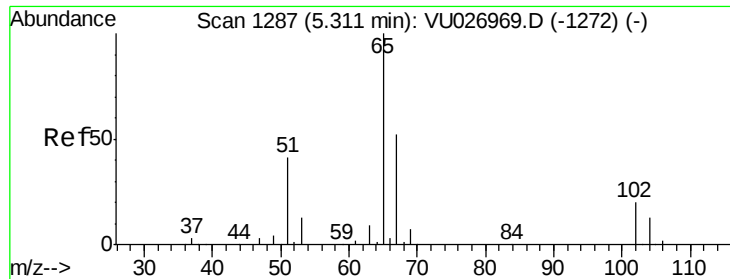
#32
1,1,1-Trichloroethane
Concen: 7.439 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

Tgt Ion: 97 Resp: 16506
Ion Ratio Lower Upper
97 100
99 62.9 51.8 77.6
61 49.5 41.1 61.7



Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0

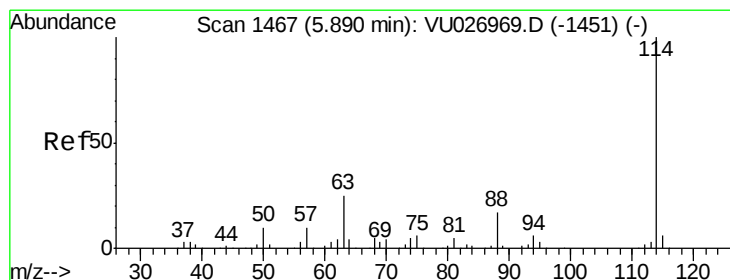
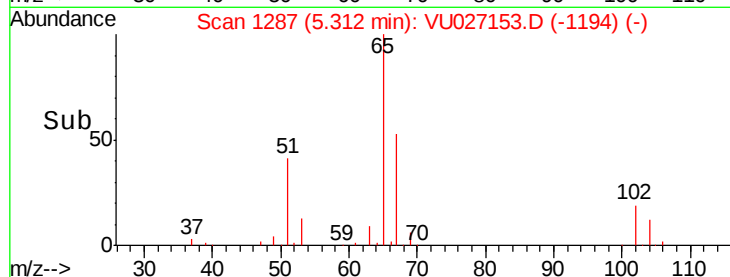
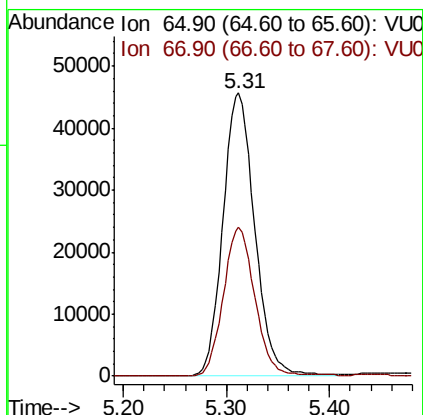
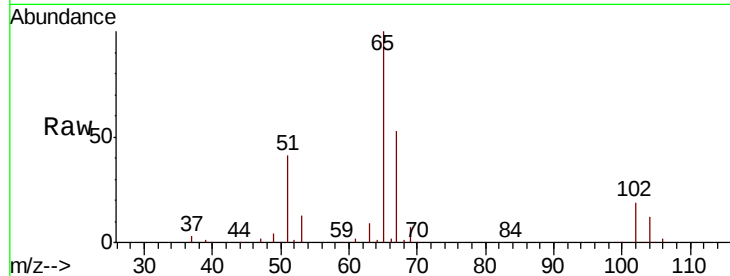




#33
 1,2-Dichloroethane-d4
 Concen: 53.728 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

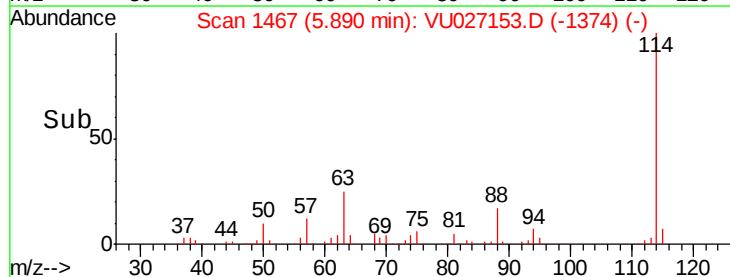
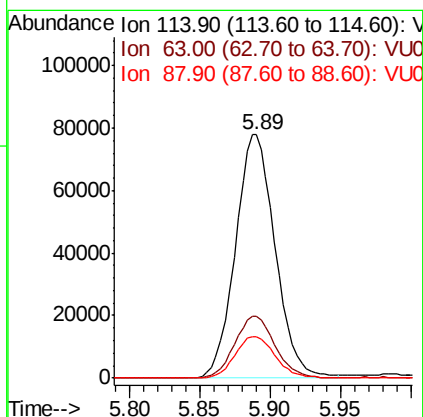
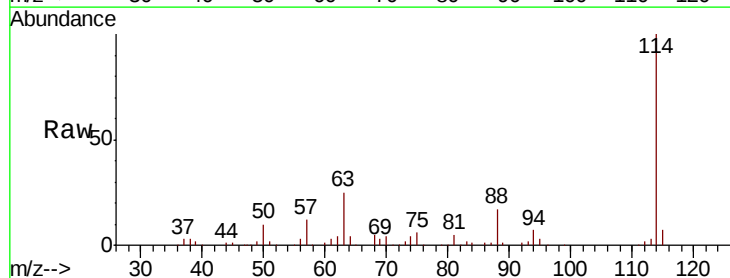
Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ143I-20180916

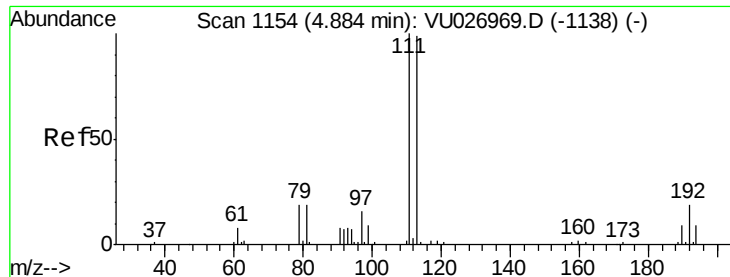
Tot Ion: 65 Resp: 98101
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

Tgt Ion: 114 Resp: 153368
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 49.2
 88 16.8 0.0 33.8

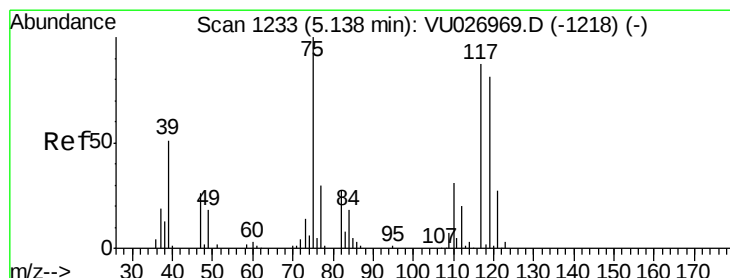
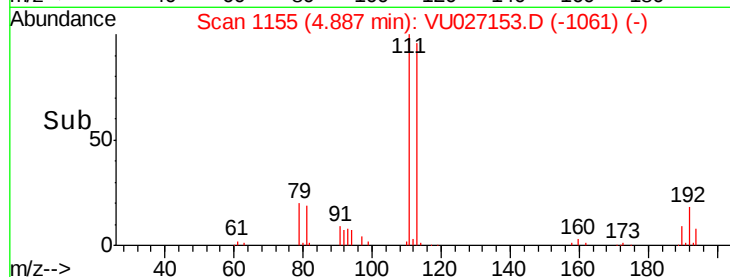
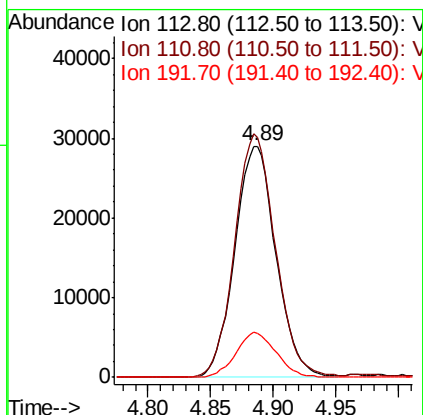
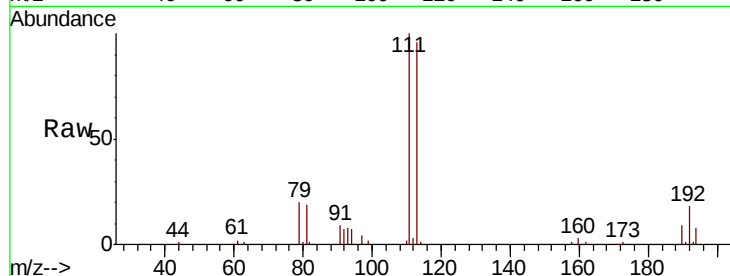




#35
 Dibromofluoromethane
 Concen: 49.892 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

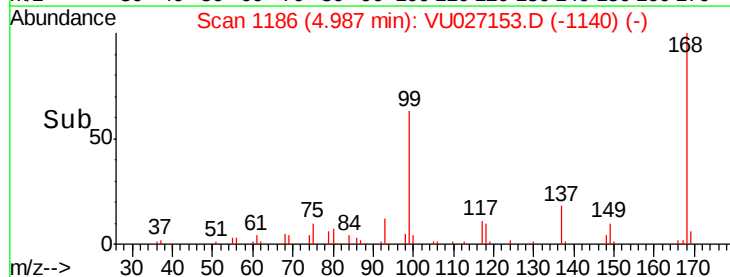
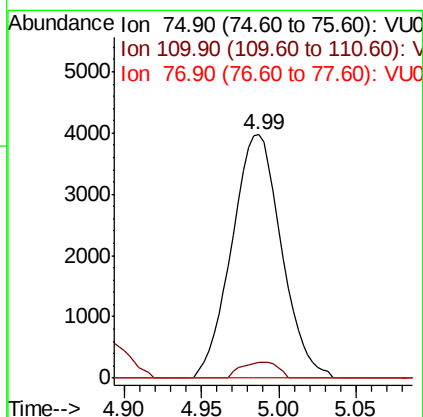
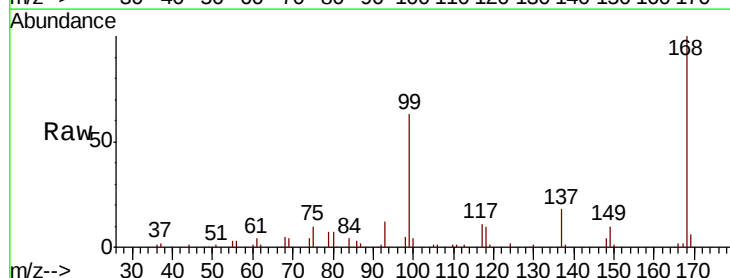
Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ143I-20180916

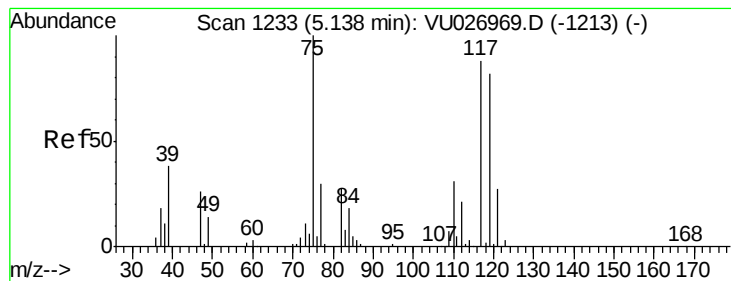
Tot Ion:113 Resp: 66326
 Ion Ratio Lower Upper
 113 100
 111 104.1 82.2 123.4
 192 18.9 15.2 22.8



#36
 1,1-Dichloropropene
 Concen: 4.324 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

Tgt Ion: 75 Resp: 8851
 Ion Ratio Lower Upper
 75 100
 110 4.9 16.1 48.2#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.864 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ143I-20180916

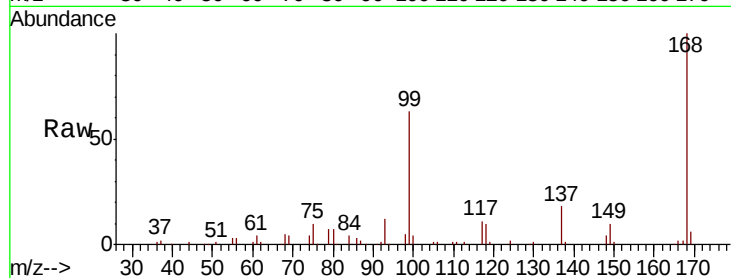
Tot Ion:117 Resp: 9474

Ion Ratio Lower Upper

117 100

119 6.2 74.4 111.6#

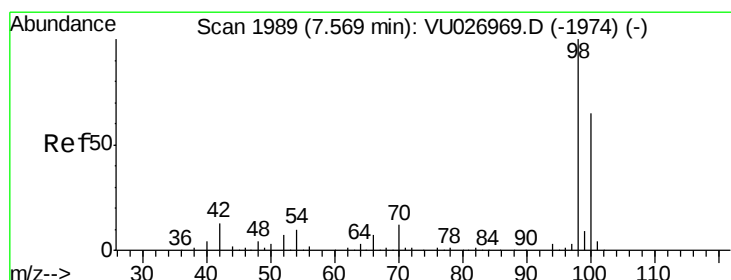
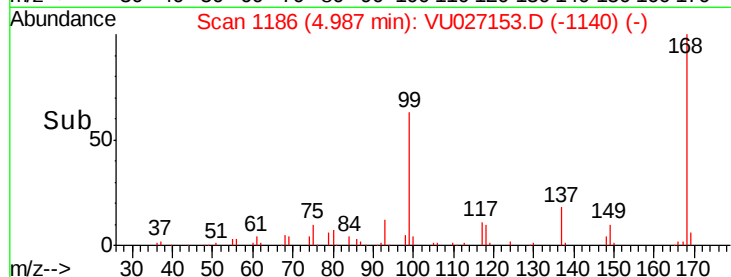
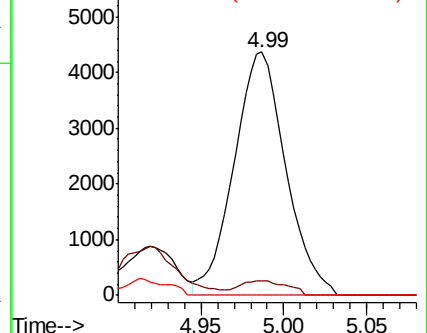
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 49.246 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027153.D

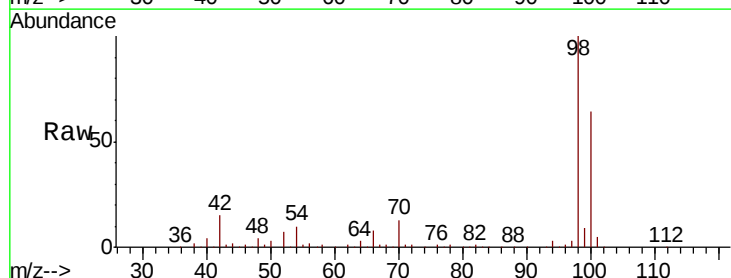
Acq: 26 Sep 2018 02:06

Tgt Ion: 98 Resp: 249497

Ion Ratio Lower Upper

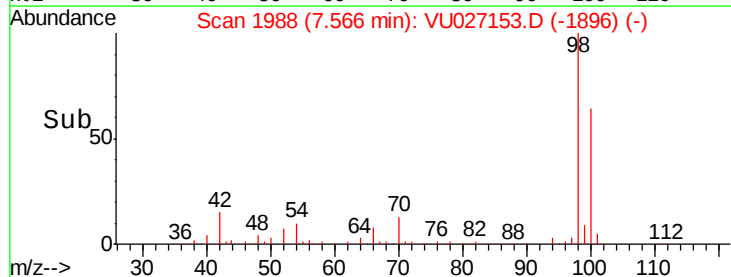
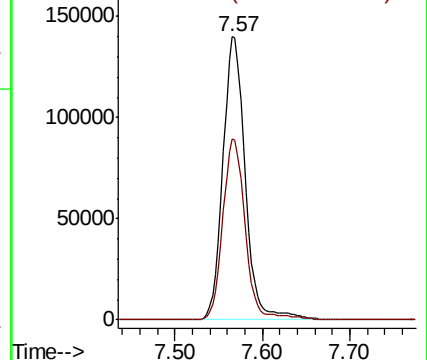
98 100

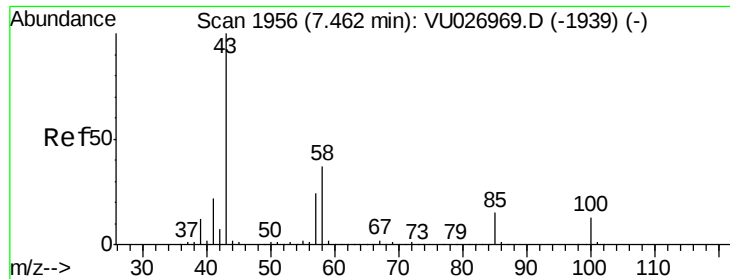
100 64.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

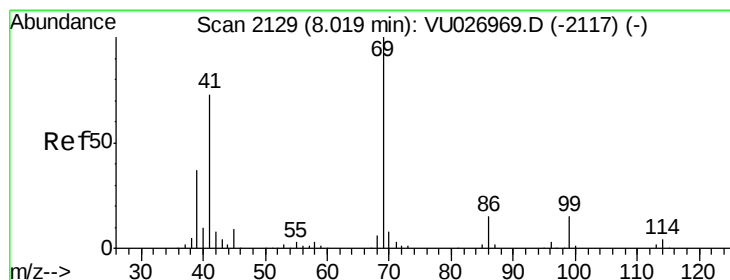
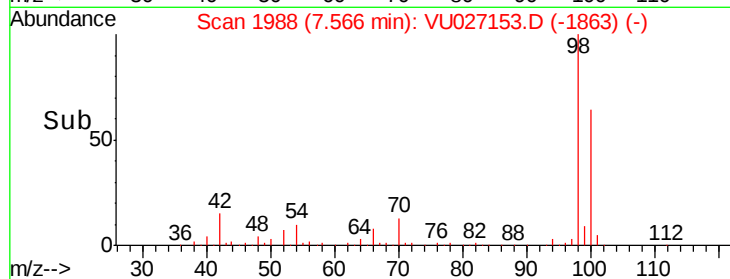
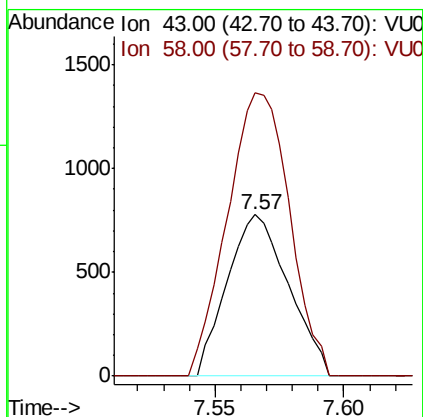
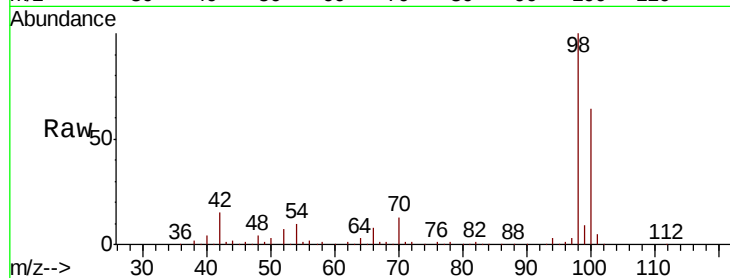




#51
4-Methyl-2-Pentanone
Concen: 0.474 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.10 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

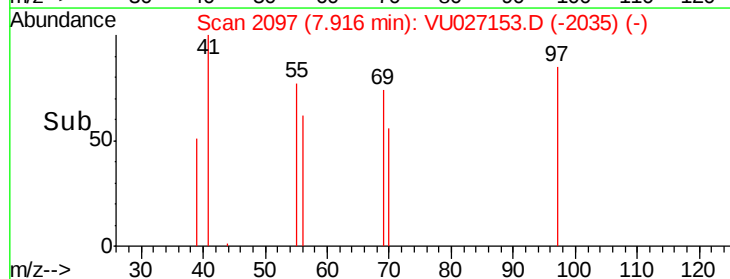
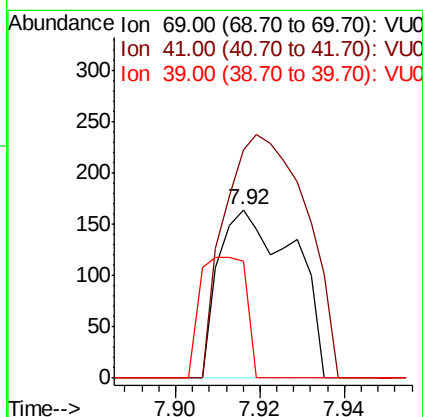
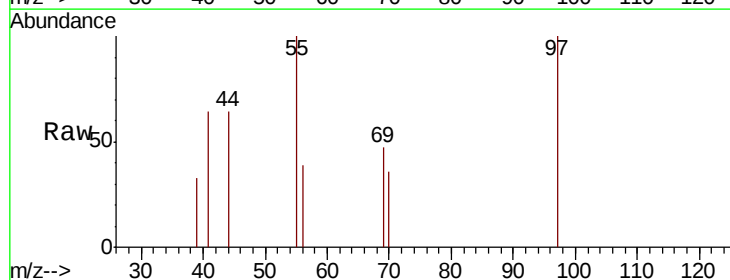
Instrument :
MSVOA_U
ClientSampleId :
SA-PZ143I-20180916

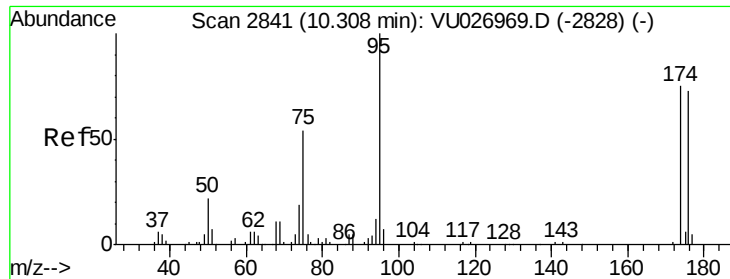
Tot Ion: 43 Resp: 1288
Ion Ratio Lower Upper
43 100
58 178.4 29.8 44.6#



#56
Ethyl methacrylate
Concen: 2.267 ug/l
RT: 7.92 min Scan# 2097
Delta R.T. -0.10 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

Tgt Ion: 69 Resp: 202
Ion Ratio Lower Upper
69 100
41 157.4 59.0 88.4#
39 43.6 30.2 45.4

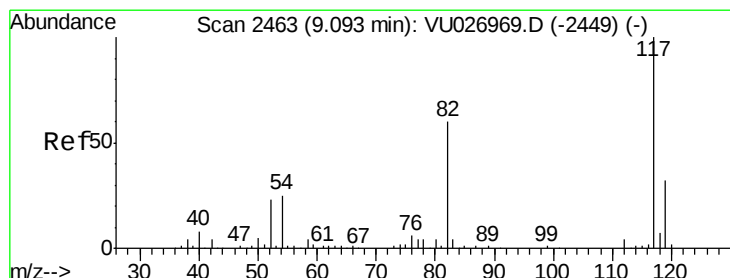
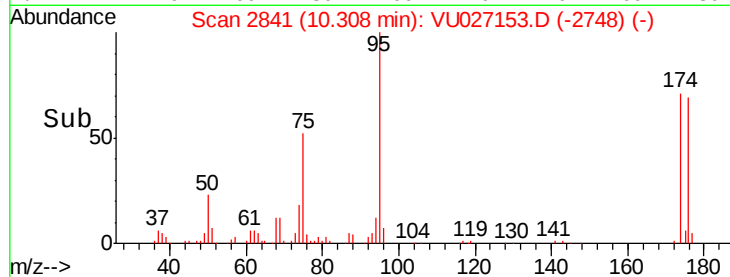
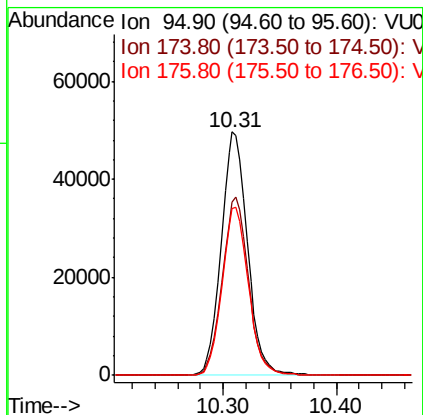
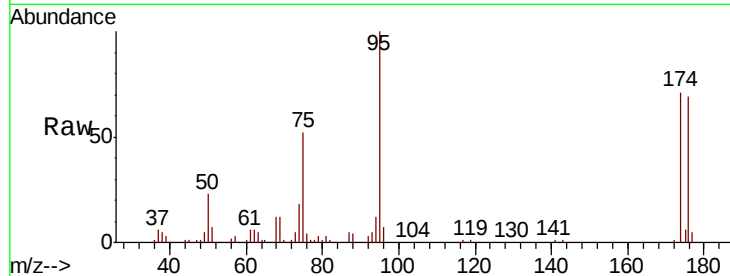




#62
 4-Bromofluorobenzene
 Concen: 46.188 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

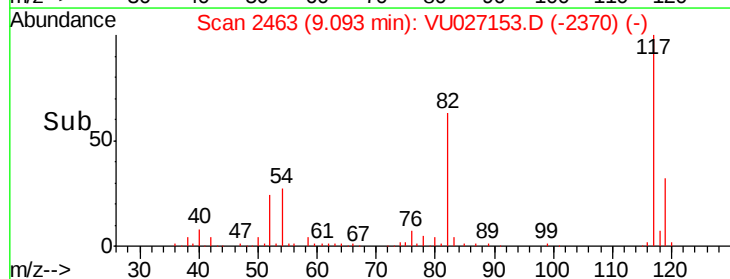
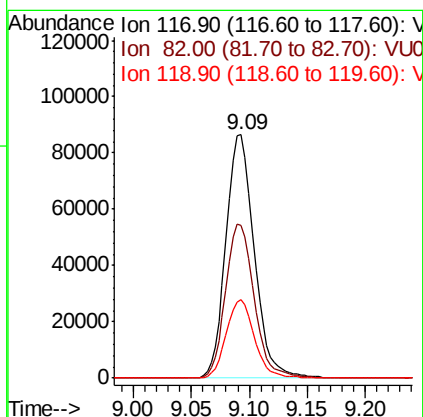
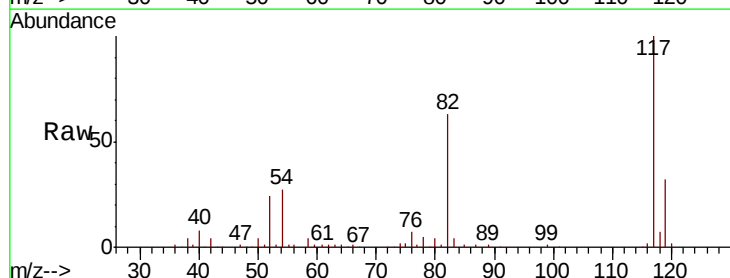
Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ143I-20180916

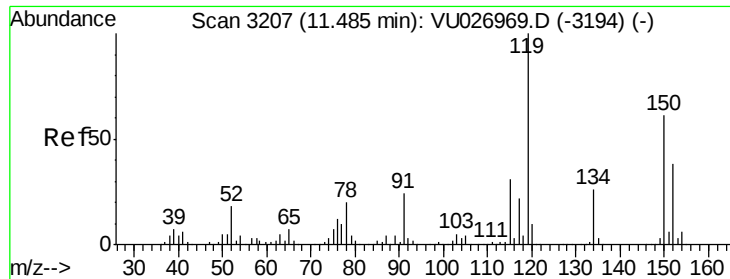
Tot Ion: 95 Resp: 80294
 Ion Ratio Lower Upper
 95 100
 174 73.1 0.0 150.2
 176 69.0 0.0 145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

Tgt Ion: 117 Resp: 146749
 Ion Ratio Lower Upper
 117 100
 82 62.9 48.0 72.0
 119 32.2 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ143I-20180916

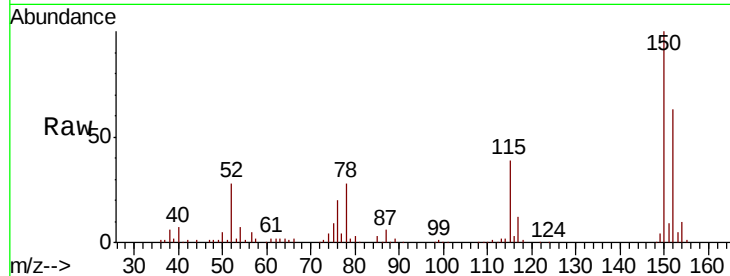
Tot Ion:152 Resp: 68861

Ion Ratio Lower Upper

152 100

115 62.1 44.9 134.5

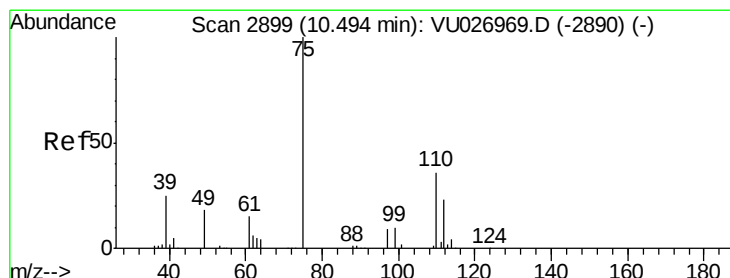
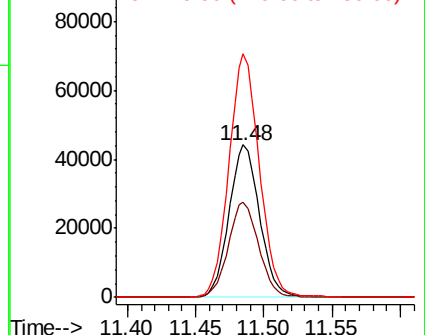
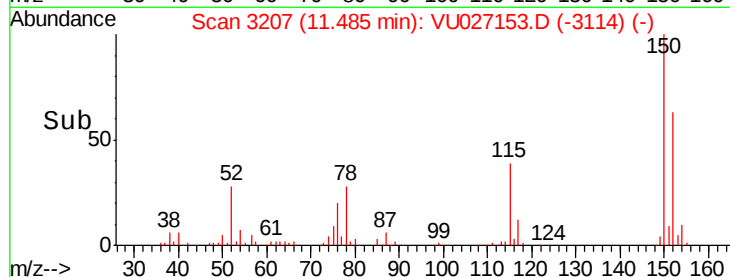
150 158.9 0.0 355.8



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: 20.386 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027153.D

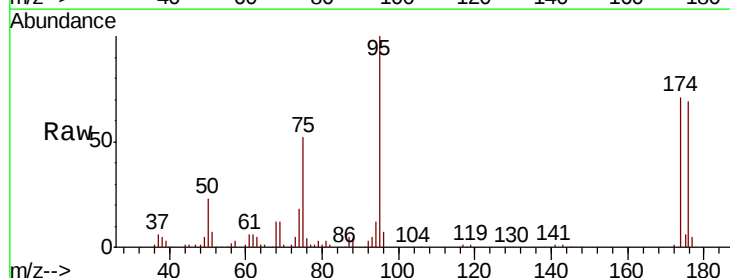
Acq: 26 Sep 2018 02:06

Tgt Ion: 75 Resp: 42648

Ion Ratio Lower Upper

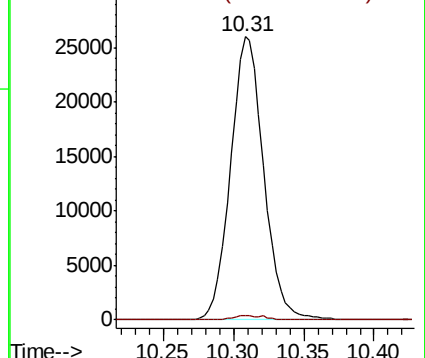
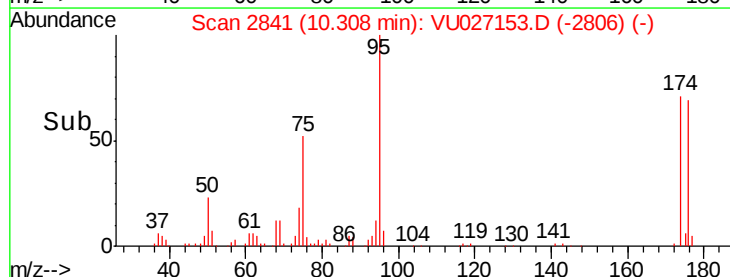
75 100

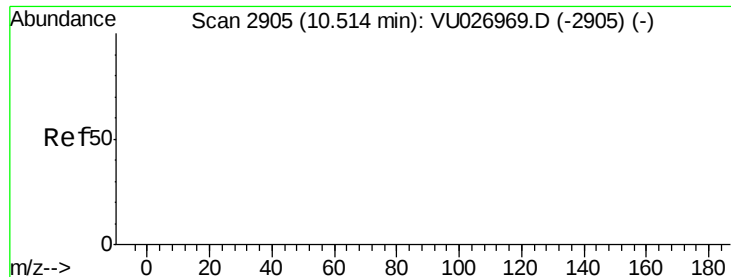
77 0.9 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.240 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ143I-20180916

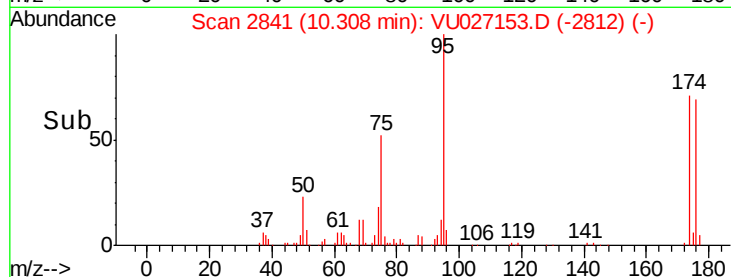
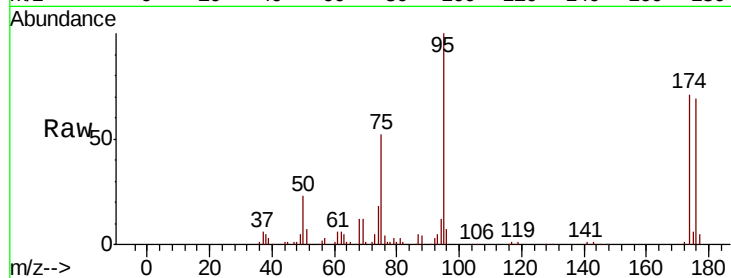
Tot Ion: 75 Resp: 42648

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

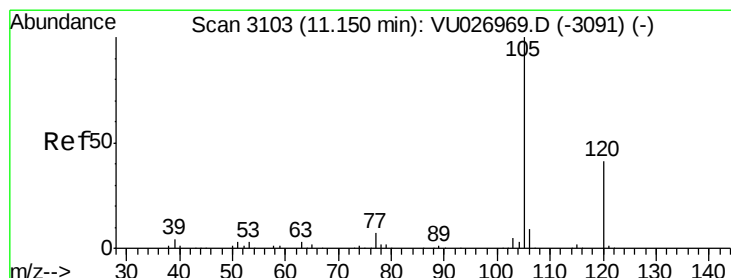
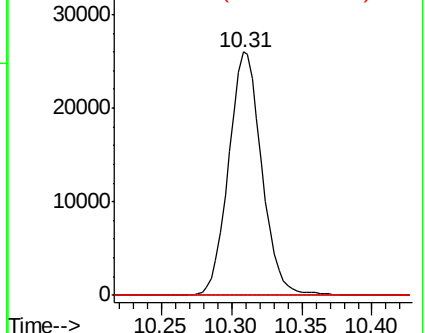
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU027153.D (-2812) (-)

Ion 53.00 (52.70 to 53.70): VU027153.D (-2812) (-)

Ion 88.90 (88.60 to 89.60): VU027153.D (-2812) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.557 ug/l

RT: 11.33 min Scan# 3158

Delta R.T. 0.18 min

Lab File: VU027153.D

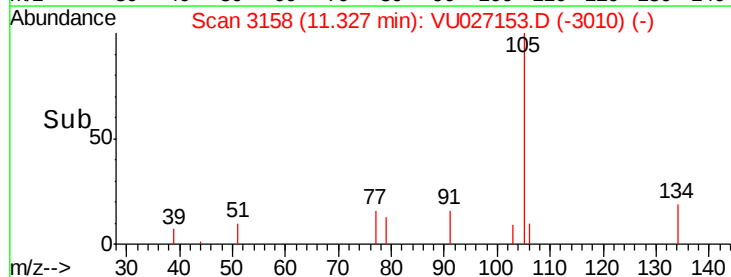
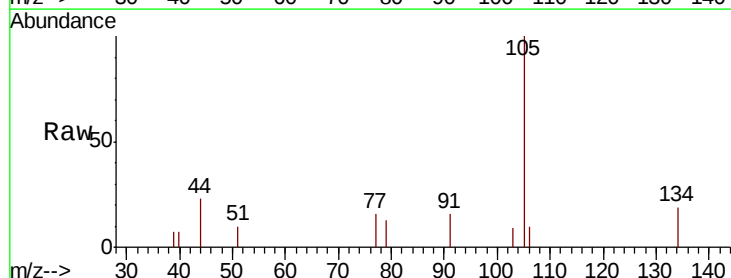
Acq: 26 Sep 2018 02:06

Tgt Ion: 105 Resp: 2449

Ion Ratio Lower Upper

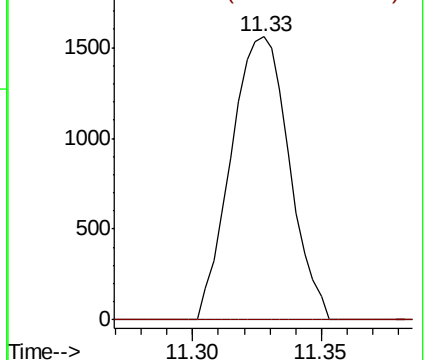
105 100

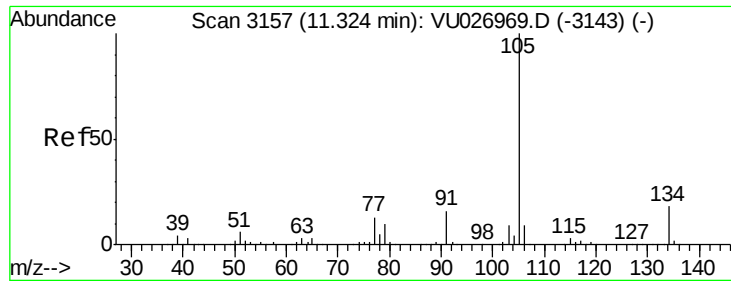
120 0.0 22.4 67.2#



Abundance Ion 105.00 (104.70 to 105.70): VU027153.D (-3010) (-)

Ion 120.00 (119.70 to 120.70): VU027153.D (-3010) (-)





#85

sec-Butylbenzene

Concen: 0.469 ug/l

RT: 11.33 min Scan# 3158

Delta R.T. 0.00 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

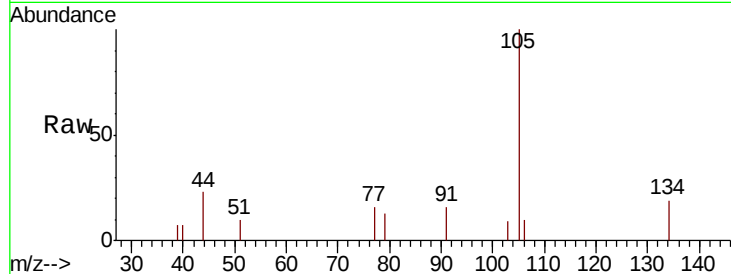
SA-PZ143I-20180916

Tot Ion:105 Resp: 2449

Ion Ratio Lower Upper

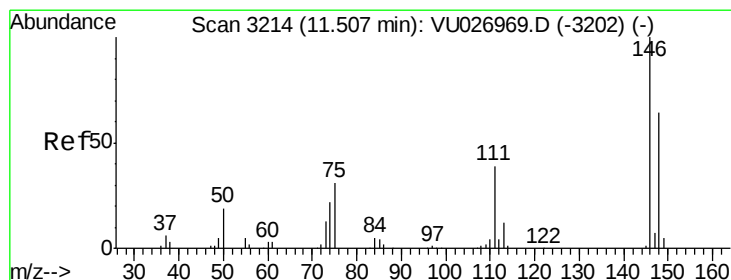
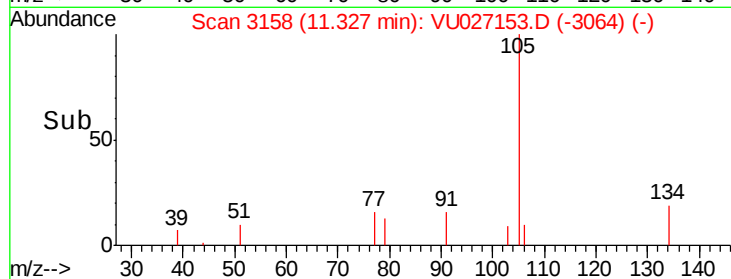
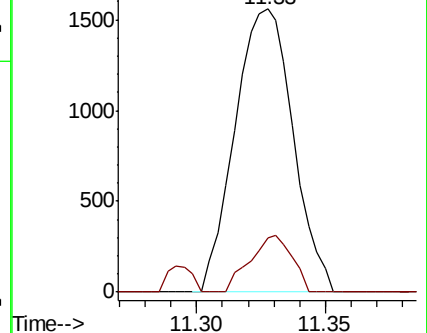
105 100

134 14.5 9.4 28.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#88

1,4-Dichlorobenzene

Concen: 0.560 ug/l

RT: 11.51 min Scan# 3215

Delta R.T. 0.00 min

Lab File: VU027153.D

Acq: 26 Sep 2018 02:06

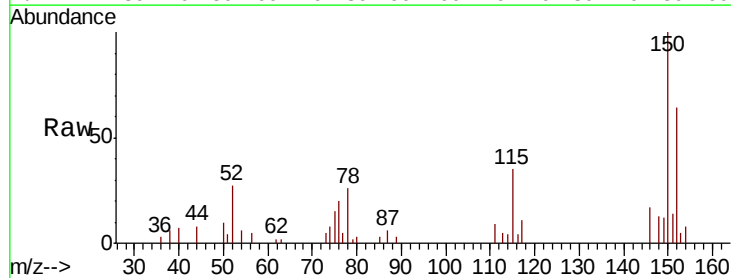
Tgt Ion:146 Resp: 1453

Ion Ratio Lower Upper

146 100

111 0.0 20.3 60.9#

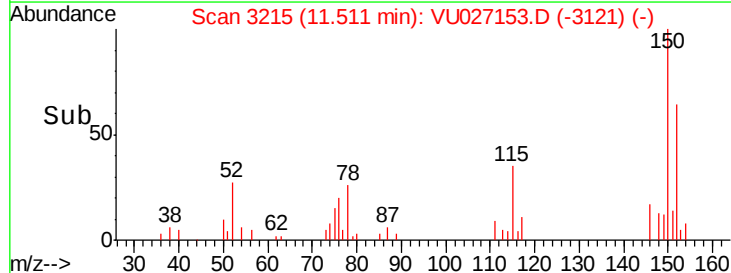
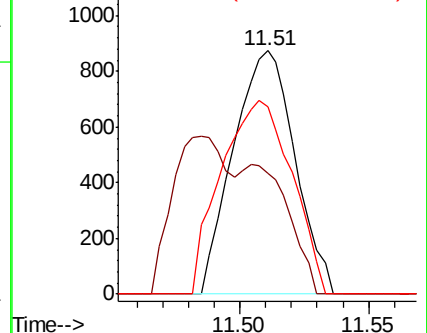
148 91.7 31.9 95.9

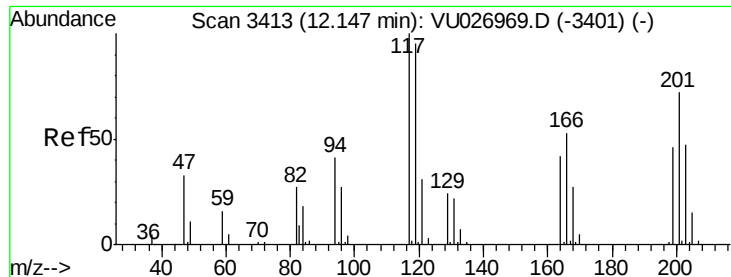


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

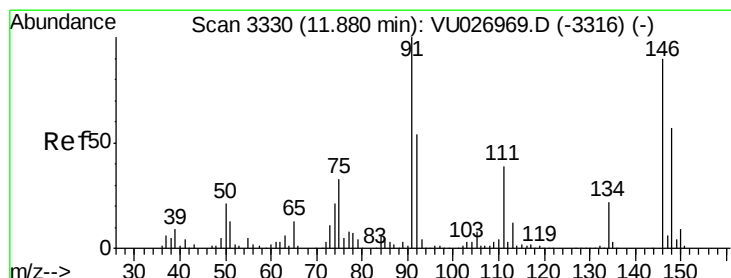
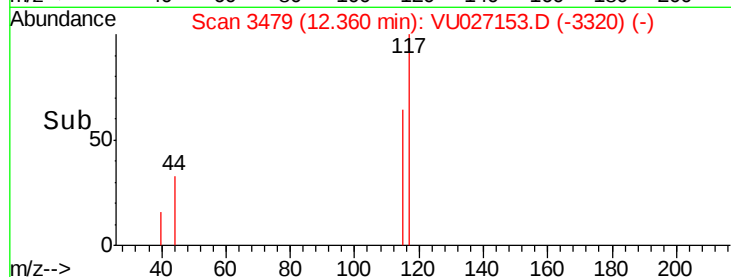
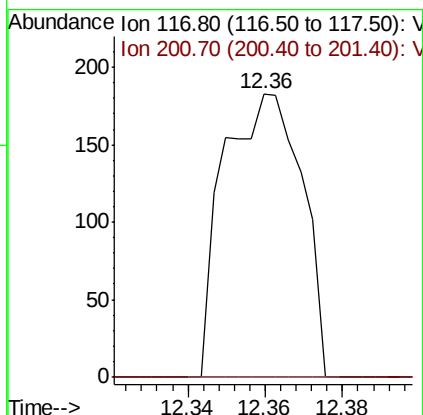
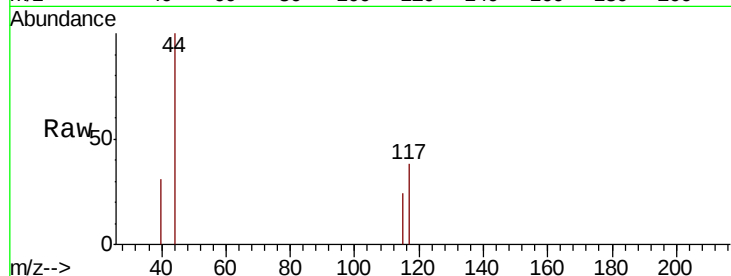




#90
Hexachloroethane
Concen: 0.271 ug/l
RT: 12.36 min Scan# 3479
Delta R.T. 0.21 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

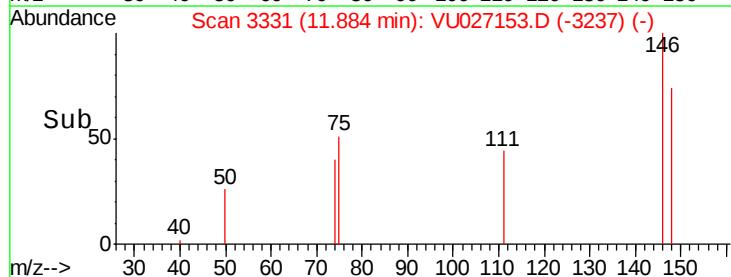
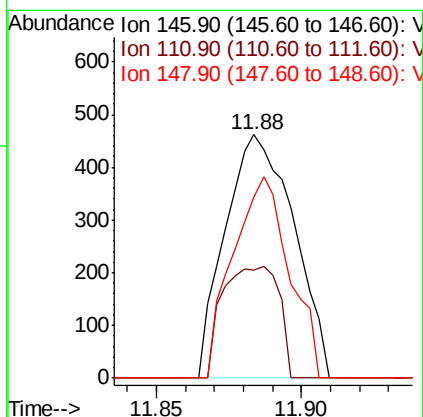
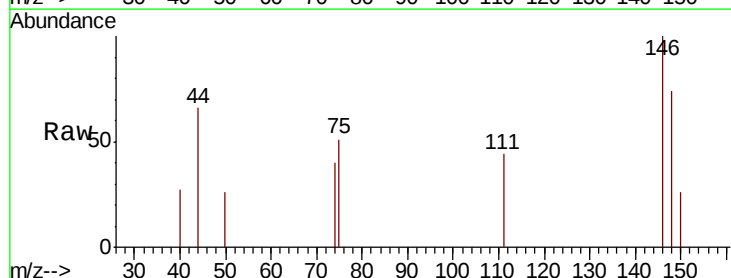
Instrument :
MSVOA_U
ClientSampleId :
SA-PZ143I-20180916

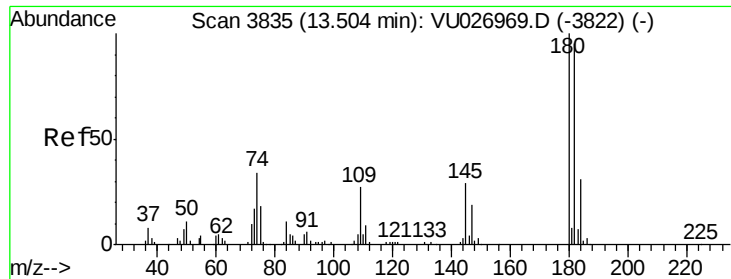
Tot Ion:117 Resp: 257
Ion Ratio Lower Upper
117 100
201 0.0 36.8 110.3#



#91
1,2-Dichlorobenzene
Concen: 0.300 ug/l
RT: 11.88 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VU027153.D
Acq: 26 Sep 2018 02:06

Tgt Ion:146 Resp: 759
Ion Ratio Lower Upper
146 100
111 37.5 21.8 65.3
148 68.1 31.9 95.7

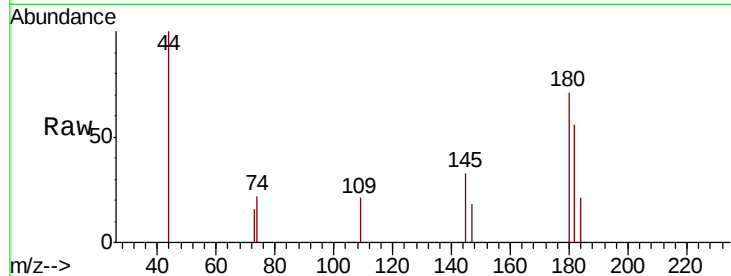




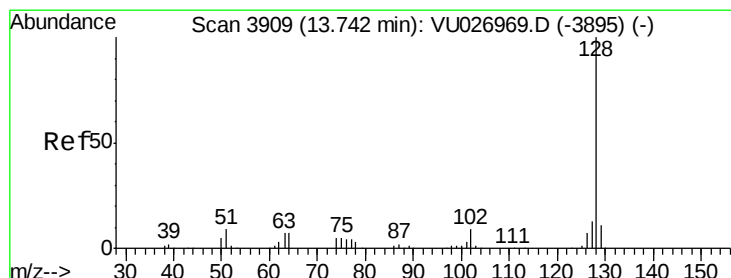
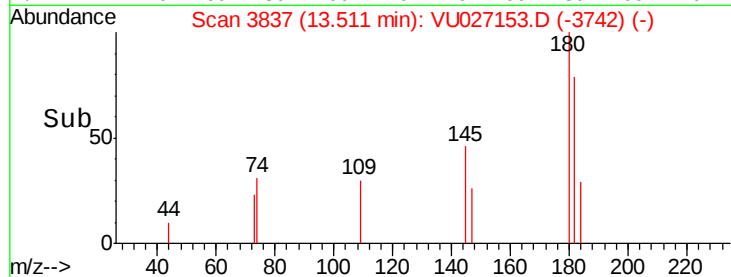
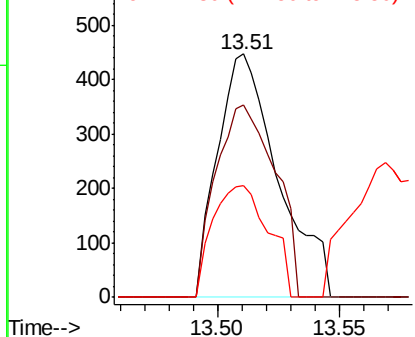
#93
 1,2,4-Trichlorobenzene
 Concen: 0.530 ug/l
 RT: 13.51 min Scan# 3837
 Delta R.T. 0.01 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ143I-20180916

Tot Ion	Ratio	Lower	Upper
180	100		
182	77.6	47.4	142.2
145	42.3	14.9	44.5

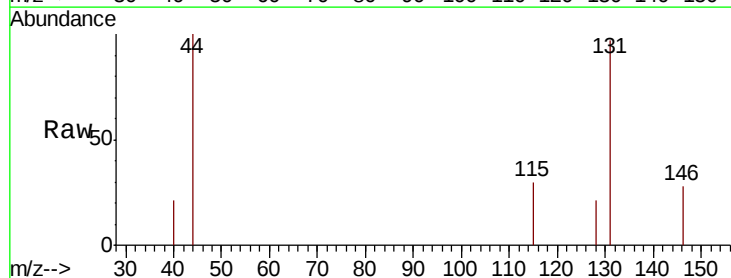


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 1.704 ug/l
 RT: 13.61 min Scan# 3867
 Delta R.T. -0.13 min
 Lab File: VU027153.D
 Acq: 26 Sep 2018 02:06

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	21.8	8.6	12.8#



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

