

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
 Data File : VU027149.D
 Acq On : 26 Sep 2018 00:33
 Operator : MD/SY
 Sample : J4968-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ149I1-20180916

Quant Time: Sep 26 06:02:53 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	87626	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	148026	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	143282	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	65372	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	94512	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
35) Dibromofluoromethane	4.88	113	65490	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
50) Toluene-d8	7.57	98	242107	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
62) 4-Bromofluorobenzene	10.31	95	77032	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	

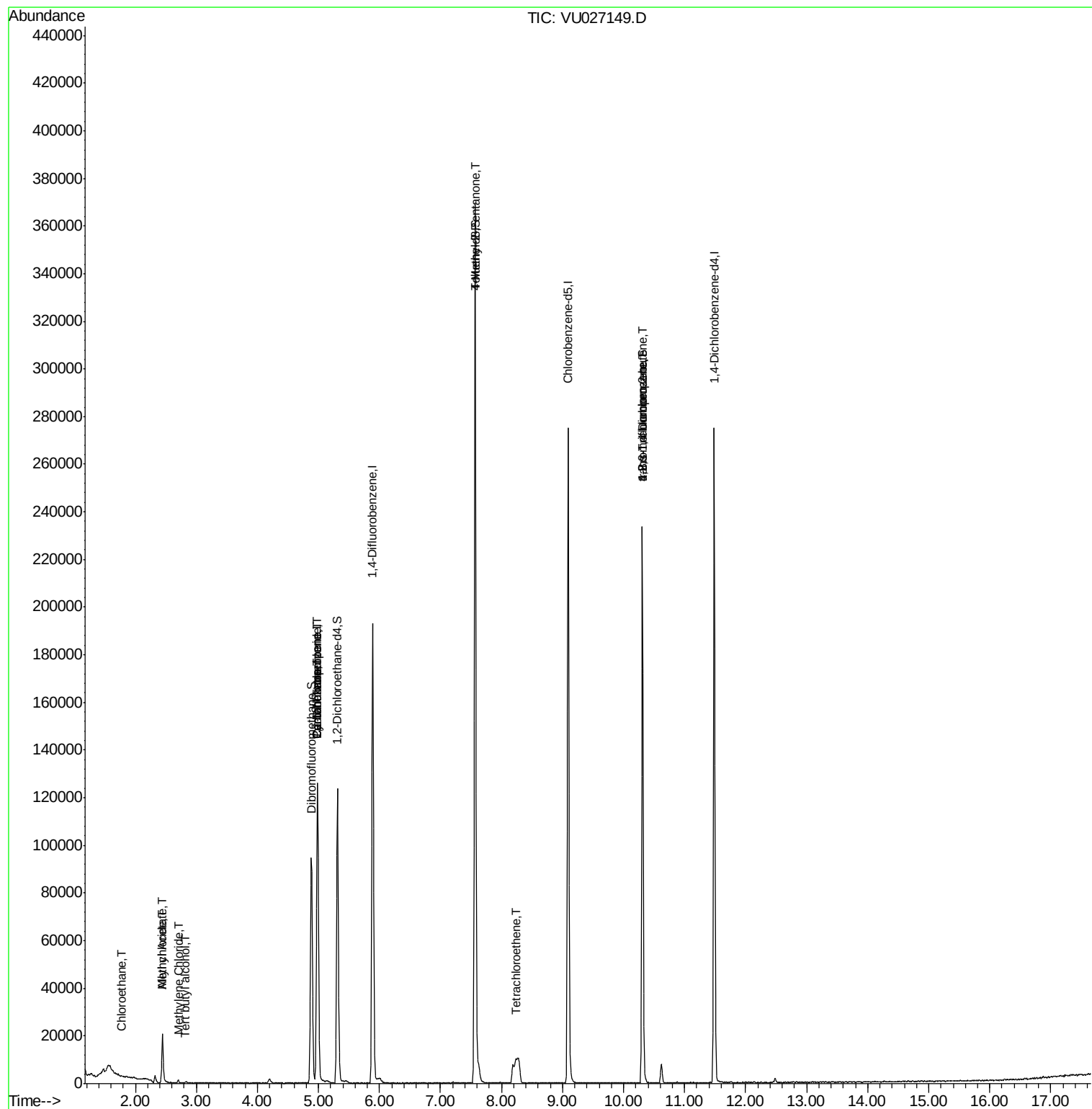
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.77	64	336	0.286	ug/l #	43
11) Tert butyl alcohol	2.83	59	415	1.027	ug/l #	72
14) Allyl chloride	2.44	41	2084	0.849	ug/l #	73
16) Acetone	2.32	43	3046	Below Cal		91
18) Methyl Acetate	2.44	43	5272	2.100	ug/l #	55
20) Methylene Chloride	2.70	84	432	0.274	ug/l #	94
31) Cyclohexane	4.98	56	2206	0.267	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	8520	4.313	ug/l #	49
38) Carbon Tetrachloride	4.98	117	8996	4.785	ug/l #	18
51) 4-Methyl-2-Pentanone	7.57	43	1274	0.486	ug/l #	1
64) Tetrachloroethene	8.23	164	281	0.255	ug/l #	59
76) 1,2,3-Trichloropropane	10.31	75	41058	20.674	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	41058	66.160	ug/l #	100

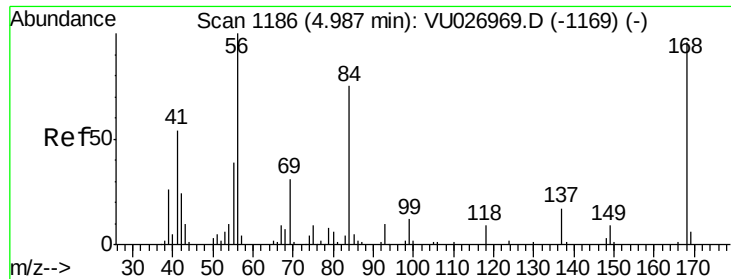
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027149.D

Acq: 26 Sep 2018 00:33

Instrument :

MSVOA_U

ClientSampleId :

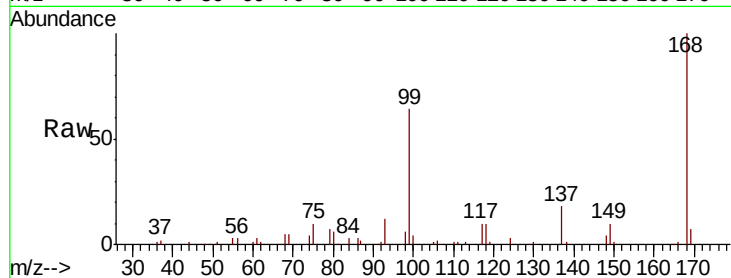
SA-PZ149I1-20180916

Tot Ion:168 Resp: 87626

Ion Ratio Lower Upper

168 100

99 63.6 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

4.99

4.99

4.99

4.99

4.99

4.99

4.99

4.99

4.99

4.99

4.99

4.99

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4.99

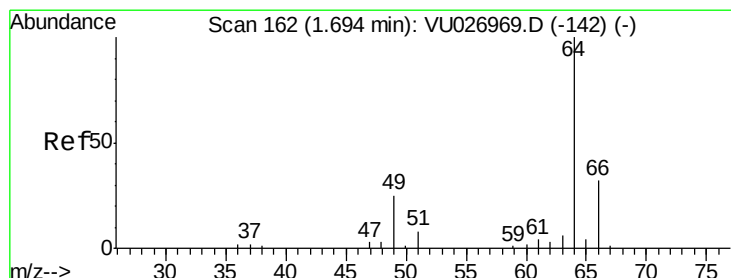
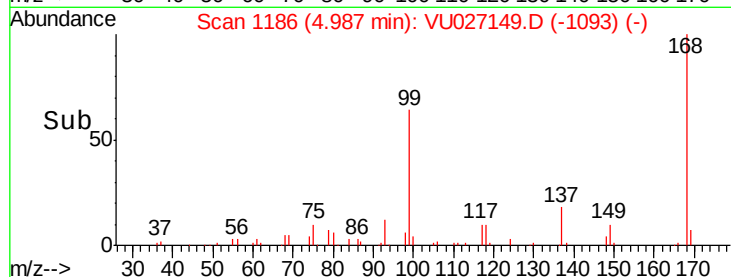
4.99

4.99

4.99

4.99

4.99



#6

Chloroethane

Concen: 0.286 ug/l

RT: 1.77 min Scan# 187

Delta R.T. 0.08 min

Lab File: VU027149.D

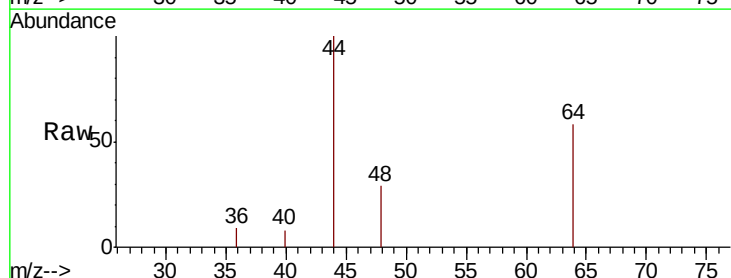
Acq: 26 Sep 2018 00:33

Tgt Ion: 64 Resp: 336

Ion Ratio Lower Upper

64 100

66 0.0 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) (-)

1.77

1.77

1.77

1.77

1.77

1.77

1.77

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1.77

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1.77

1.77

1.77

1.77

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1.77

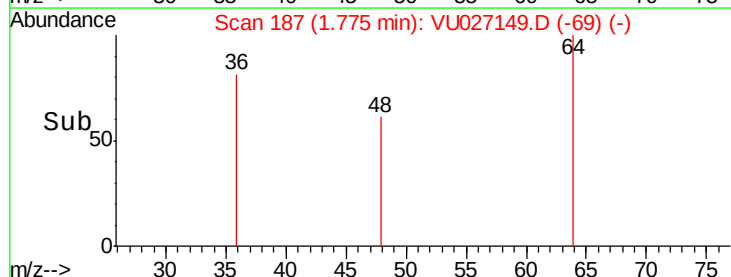
1.77

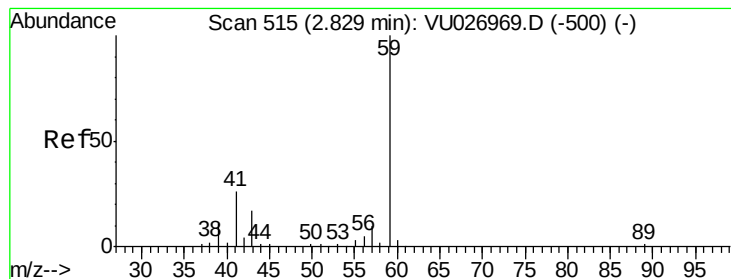
1.77

1.77

1.77

1.77





#11

Tert butyl alcohol

Concen: 1.027 ug/l

RT: 2.83 min Scan# 514

Delta R.T. -0.00 min

Lab File: VU027149.D

Acq: 26 Sep 2018 00:33

Instrument :

MSVOA_U

ClientSampleId :

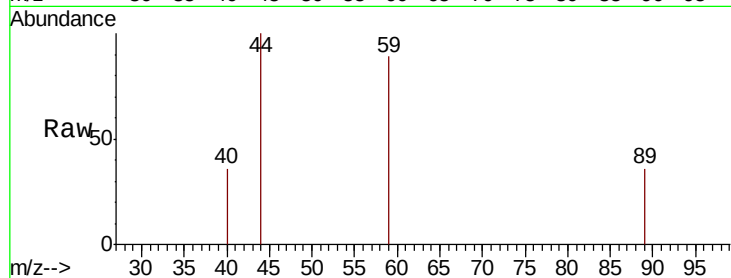
SA-PZ149I1-20180916

Tot Ion: 59 Resp: 415

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

250

200

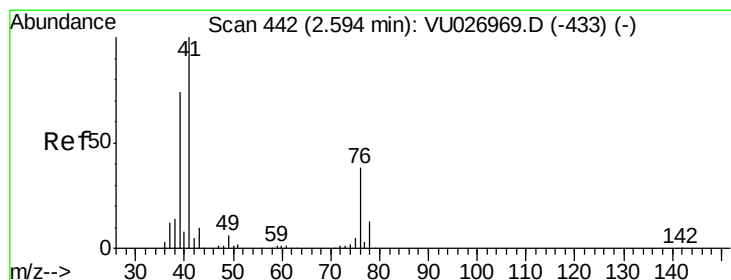
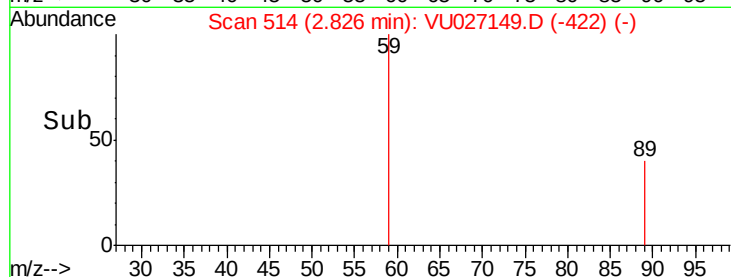
150

100

50

0

Time-->



#14

Allyl chloride

Concen: 0.849 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.15 min

Lab File: VU027149.D

Acq: 26 Sep 2018 00:33

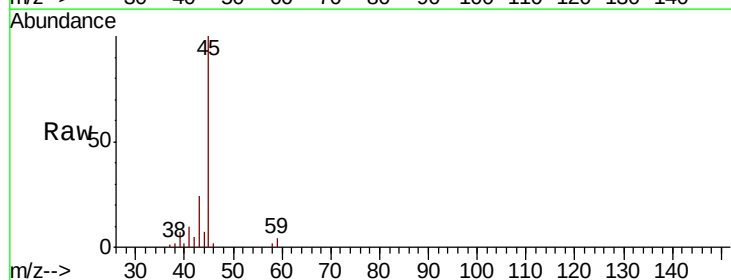
Tgt Ion: 41 Resp: 2084

Ion Ratio Lower Upper

41 100

39 79.8 55.7 83.5

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

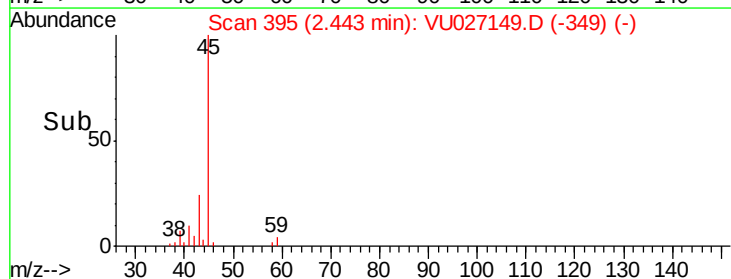
1500

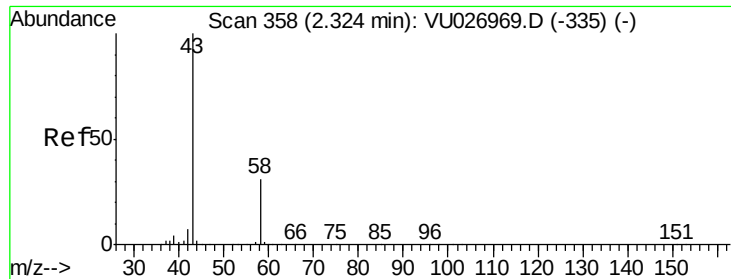
1000

500

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027149.D

Acq: 26 Sep 2018 00:33

Instrument :

MSVOA_U

ClientSampleId :

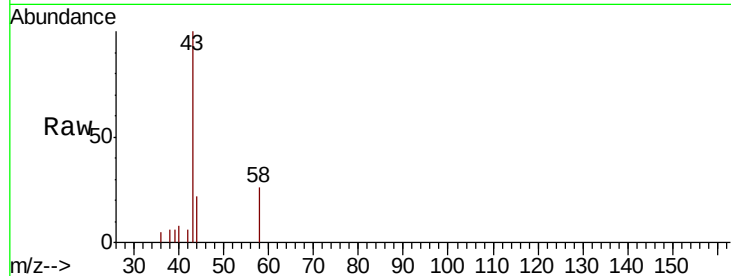
SA-PZ149I1-20180916

Tot Ion: 43 Resp: 3046

Ion Ratio Lower Upper

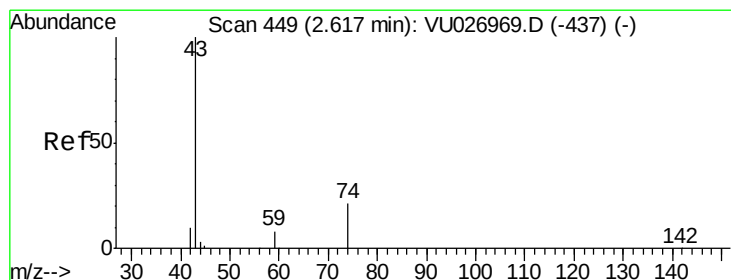
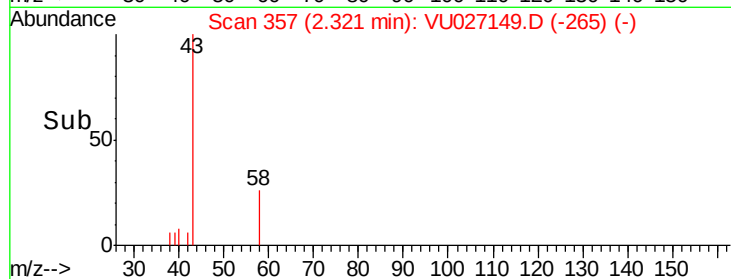
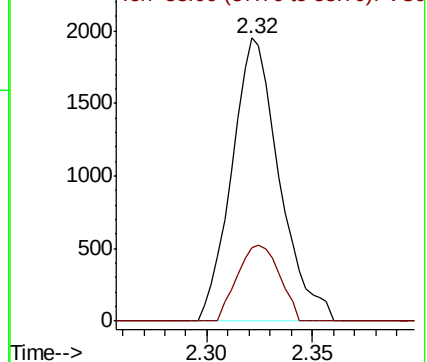
43 100

58 25.8 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: 2.100 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027149.D

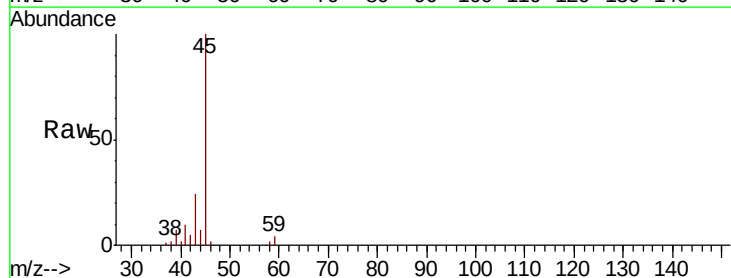
Acq: 26 Sep 2018 00:33

Tgt Ion: 43 Resp: 5272

Ion Ratio Lower Upper

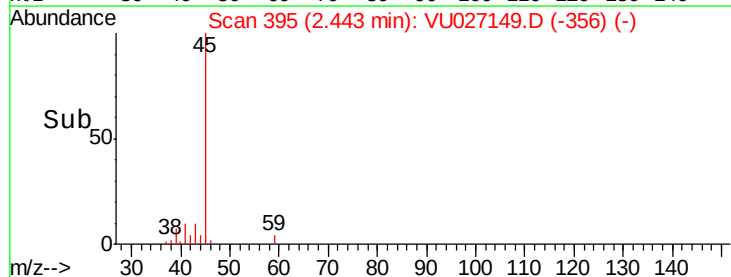
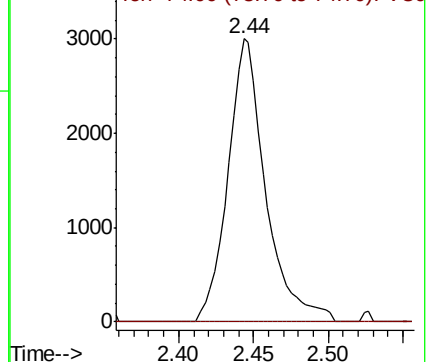
43 100

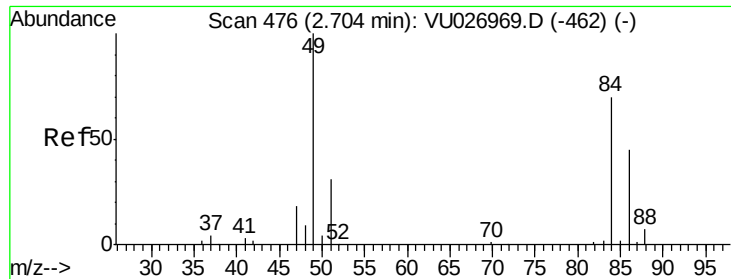
74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

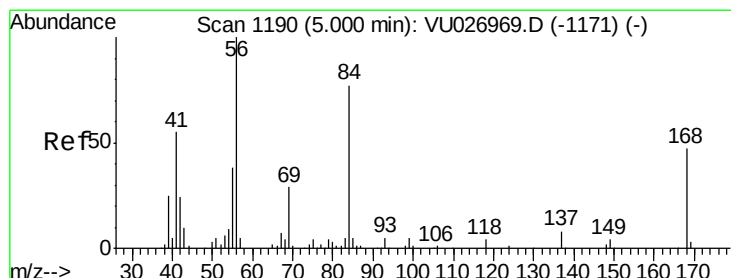
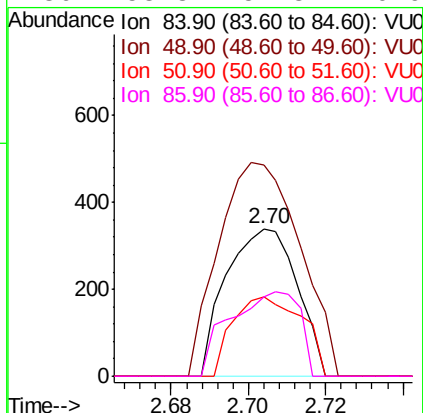
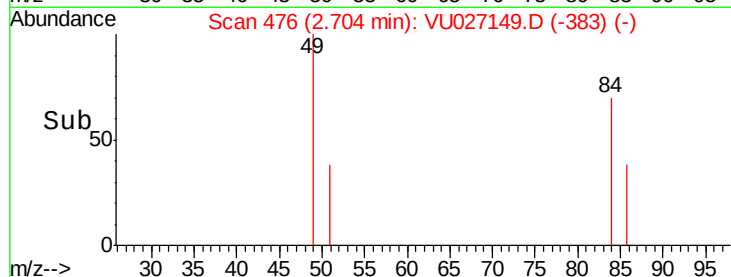
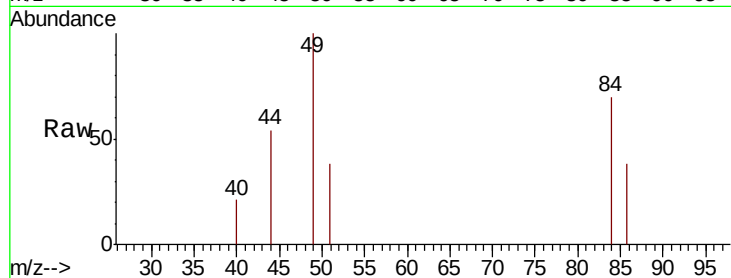




#20
Methvlene Chloride
Concen: 0.274 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

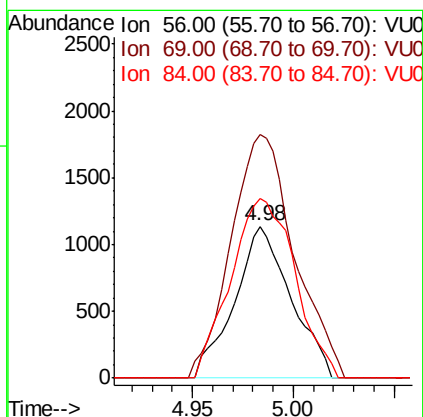
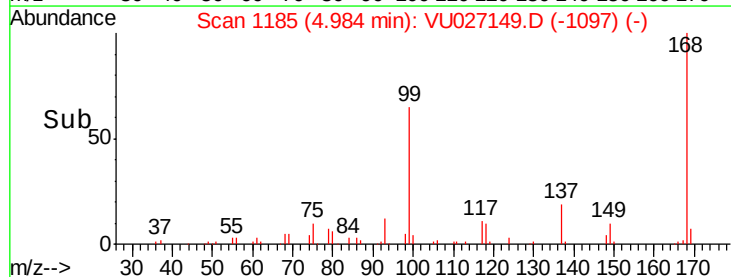
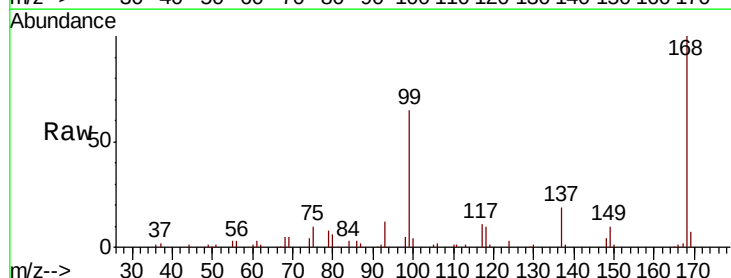
Instrument :
MSVOA_U
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SA-PZ149I1-20180916

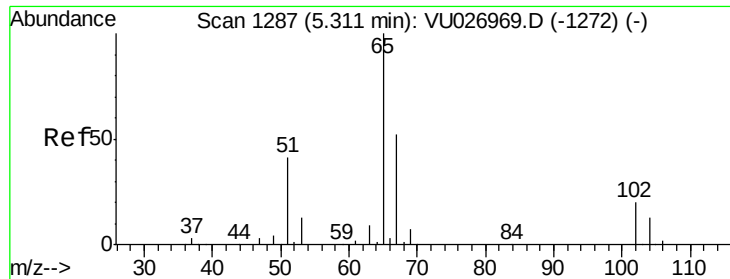
Tot Ion: 84 Resp: 432
Ion Ratio Lower Upper
84 100
49 143.2 114.9 172.3
51 53.8 35.8 53.8#
86 53.8 51.3 76.9



#31
Cyclohexane
Concen: 0.267 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.02 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

Tgt Ion: 56 Resp: 2206
Ion Ratio Lower Upper
56 100
69 160.5 23.0 34.4#
84 118.8 61.4 92.2#

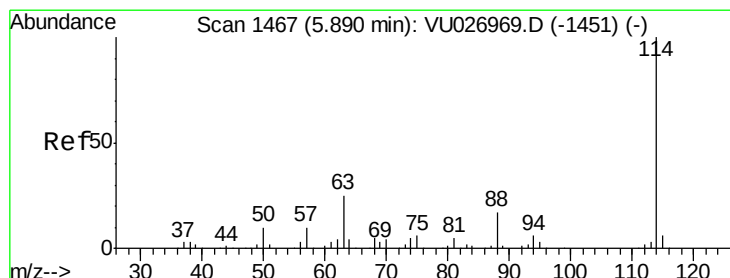
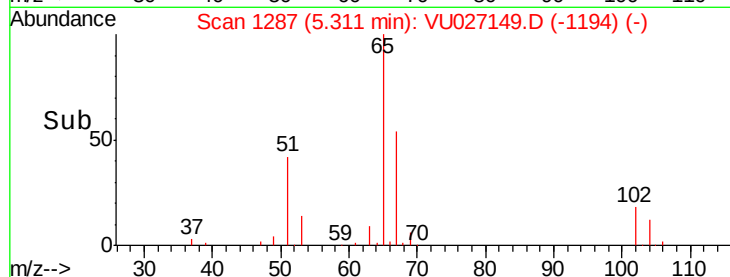
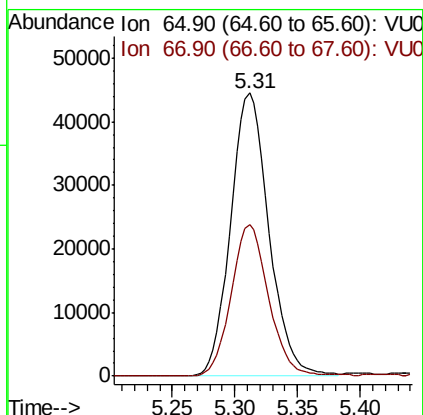
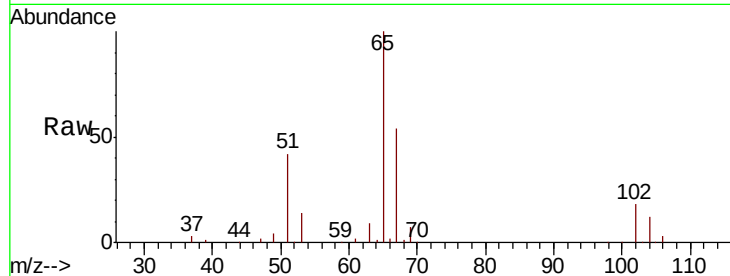




#33
 1,2-Dichloroethane-d4
 Concen: 53.590 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027149.D
 Acq: 26 Sep 2018 00:33

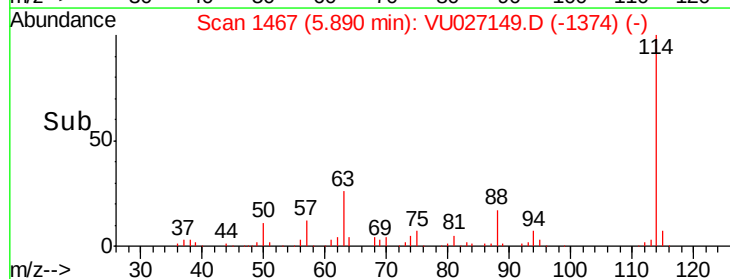
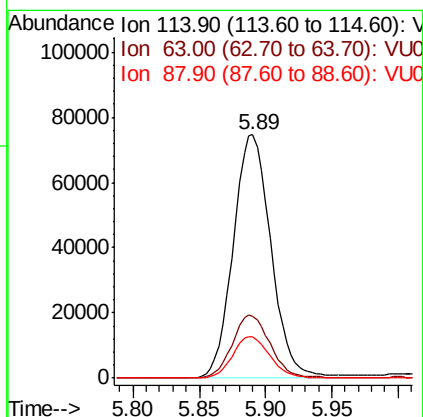
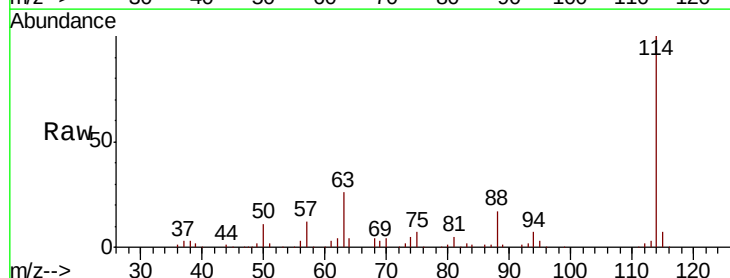
Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ149I1-20180916

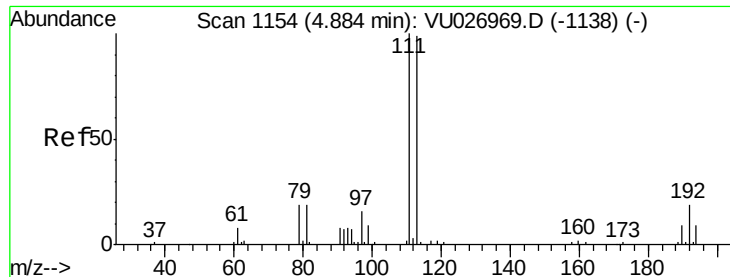
Tot Ion: 65 Resp: 94512
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027149.D
 Acq: 26 Sep 2018 00:33

Tgt Ion: 114 Resp: 148026
 Ion Ratio Lower Upper
 114 100
 63 25.6 0.0 49.2
 88 16.8 0.0 33.8

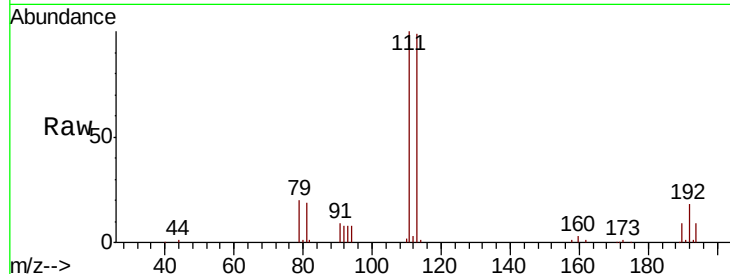




#35
 Dibromofluoromethane
 Concen: 51.041 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027149.D
 Acq: 26 Sep 2018 00:33

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ149I1-20180916

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	18.4	15.2	22.8

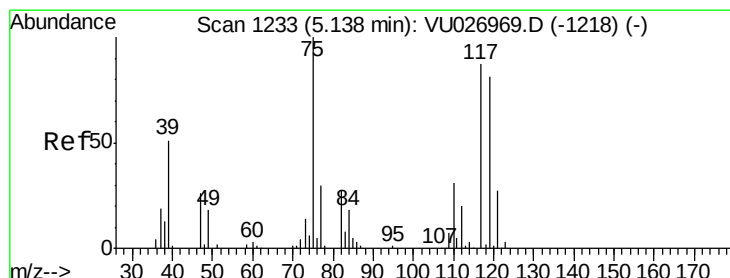
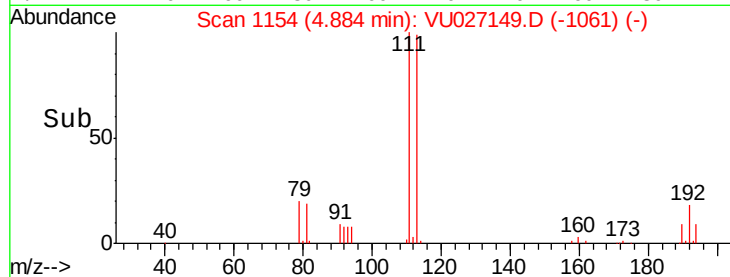
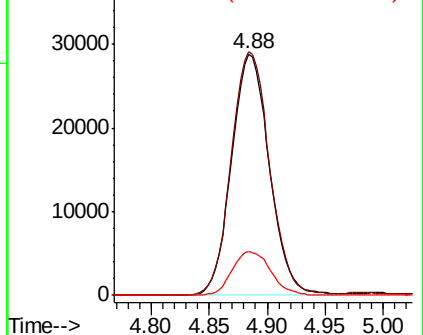


Abundance

Ion 112.80 (112.50 to 113.50): V

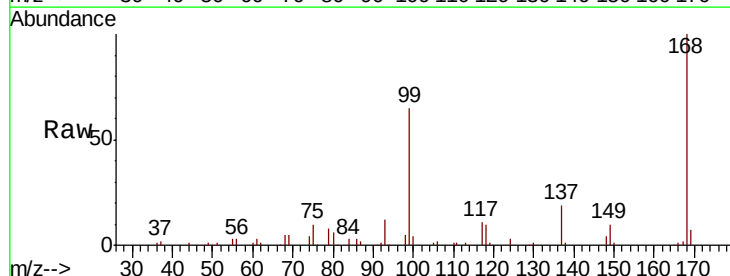
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.313 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027149.D
 Acq: 26 Sep 2018 00:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.1	16.1	48.2#
77	0.0	24.6	36.8#

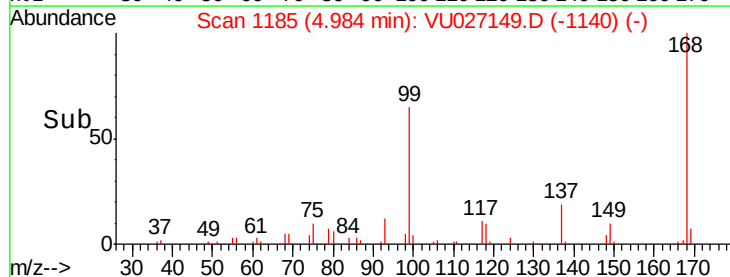
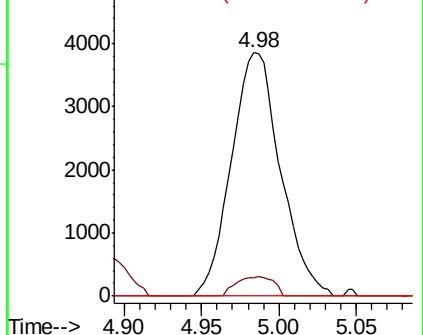


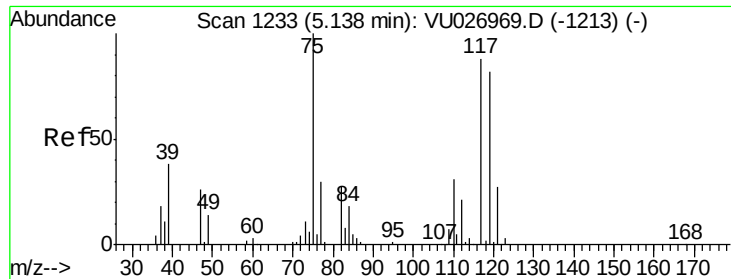
Abundance

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

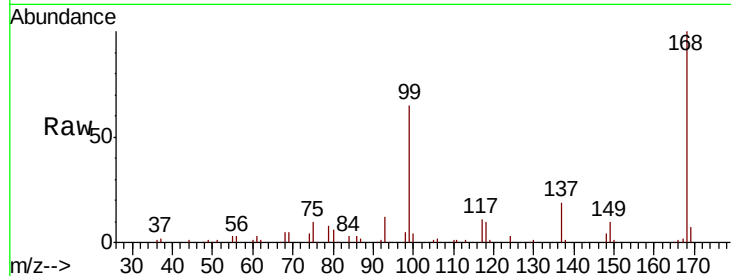




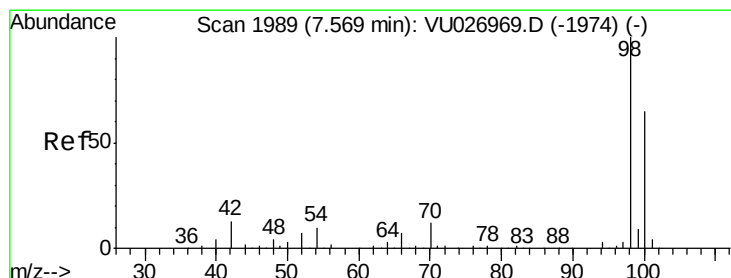
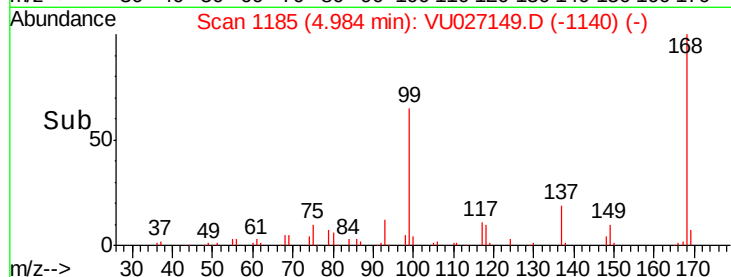
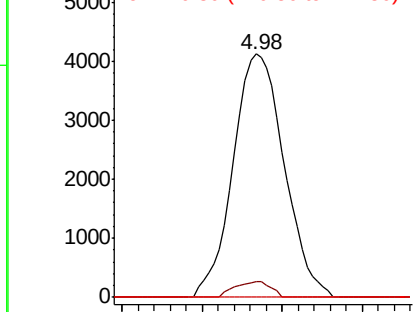
#38
Carbon Tetrachloride
Concen: 4.785 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ149I1-20180916

Tot Ion:117 Resp: 8996
Ion Ratio Lower Upper
117 100
119 6.5 74.4 111.6#
121 0.0 24.2 36.4#

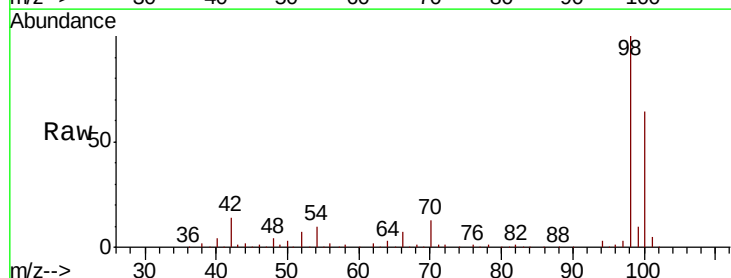


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

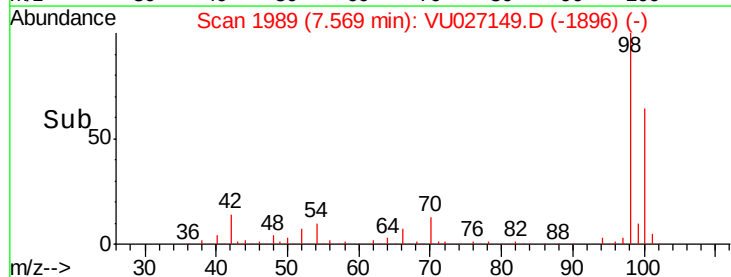
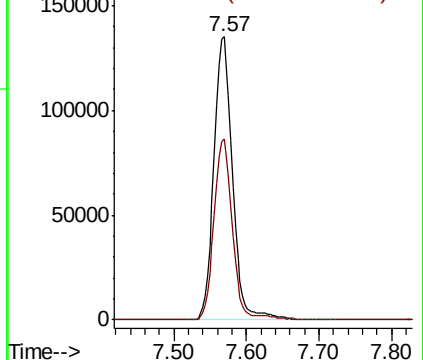


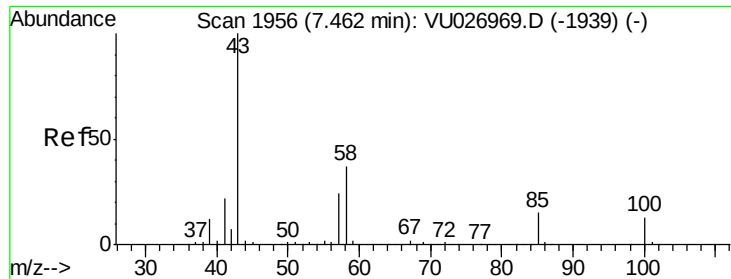
#50
Toluene-d8
Concen: 49.511 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

Tgt Ion: 98 Resp: 242107
Ion Ratio Lower Upper
98 100
100 63.2 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: 0.486 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.10 min

Lab File: VU027149.D

Acq: 26 Sep 2018 00:33

Instrument :

MSVOA_U

ClientSampleId :

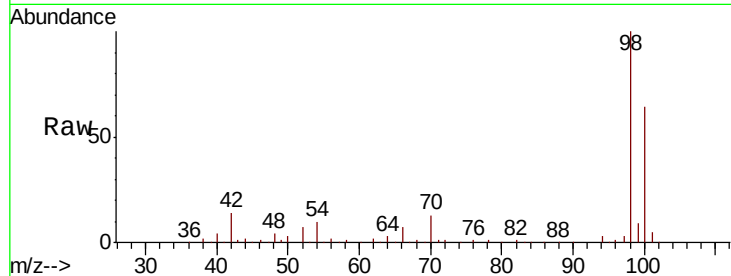
SA-PZ149I1-20180916

Tot Ion: 43 Resp: 1274

Ion Ratio Lower Upper

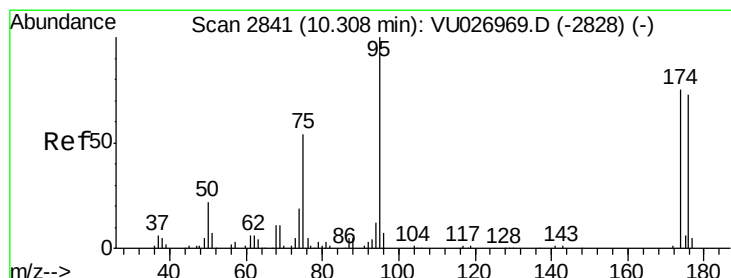
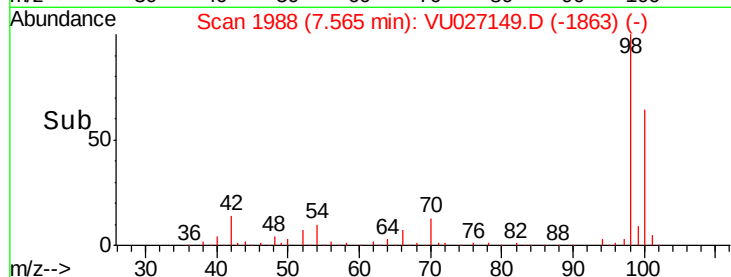
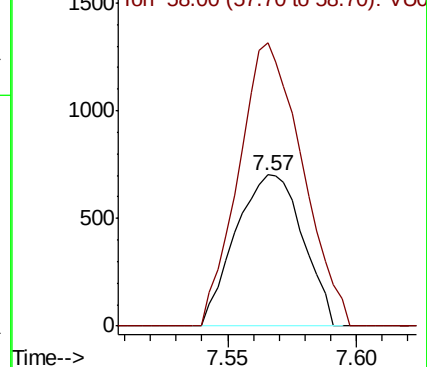
43 100

58 177.9 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 45.910 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027149.D

Acq: 26 Sep 2018 00:33

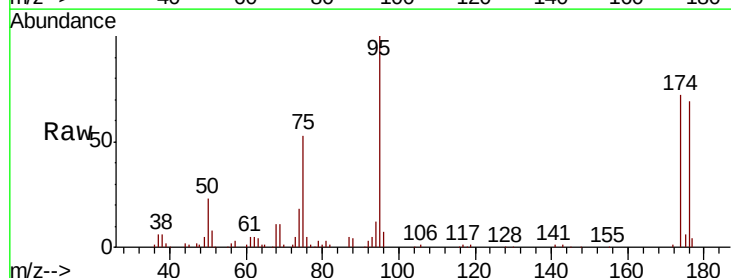
Tgt Ion: 95 Resp: 77032

Ion Ratio Lower Upper

95 100

174 72.9 0.0 150.2

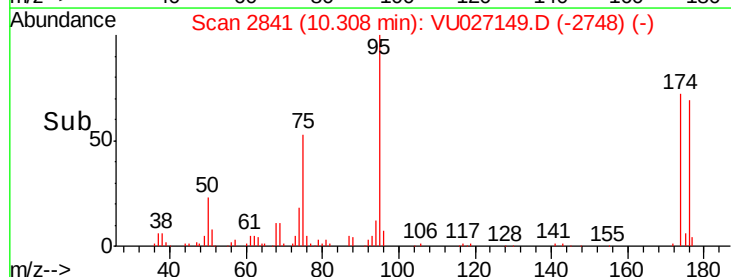
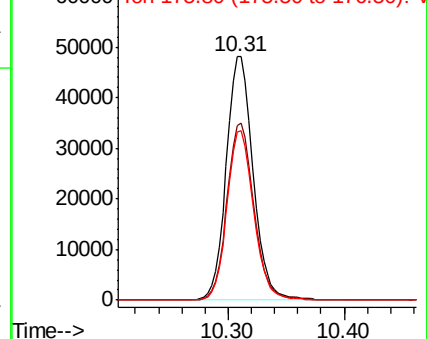
176 68.9 0.0 145.2

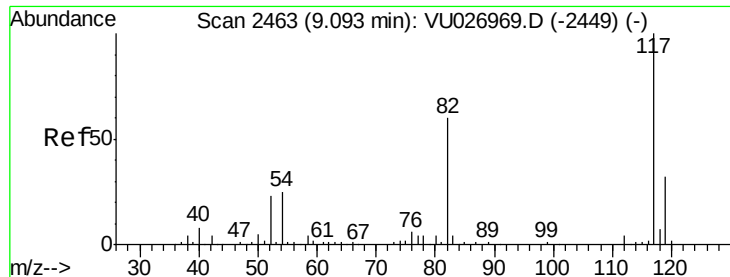


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

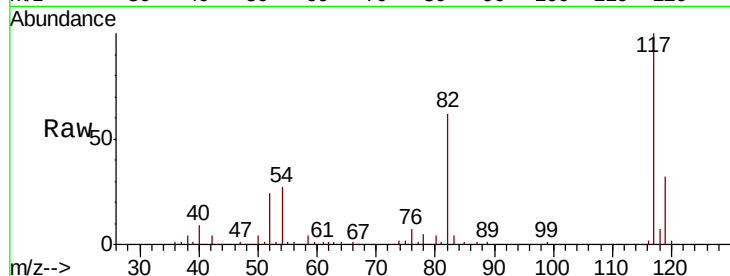




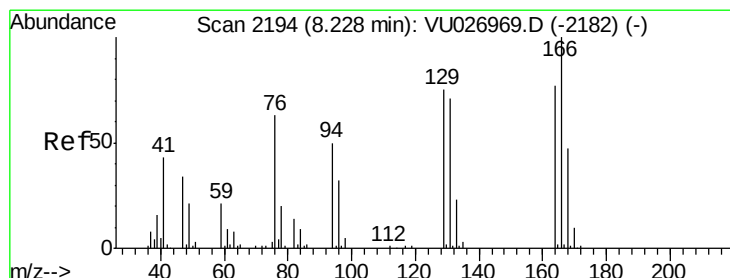
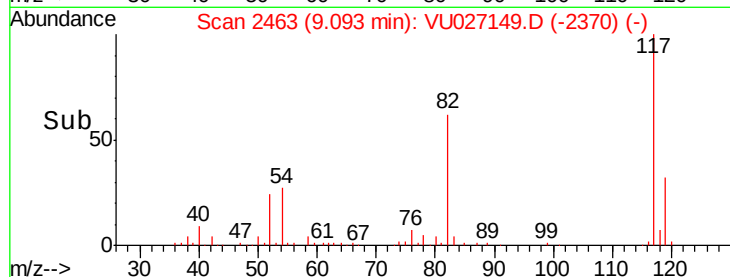
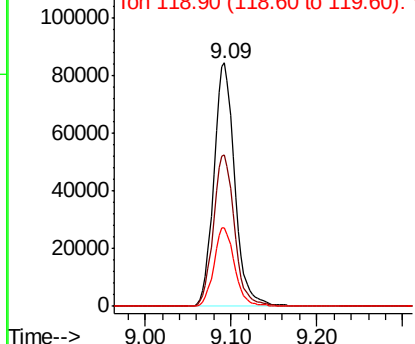
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ149I1-20180916

Tot Ion:117 Resp: 143282
Ion Ratio Lower Upper
117 100
82 62.1 48.0 72.0
119 32.4 25.8 38.8

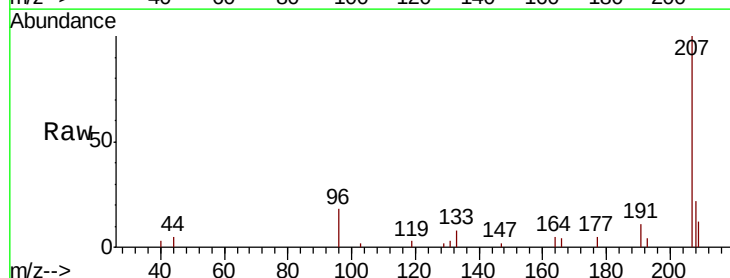


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

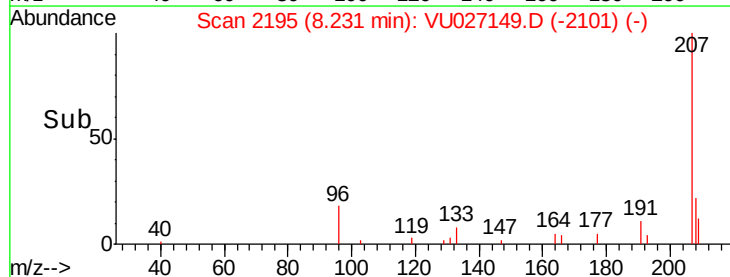
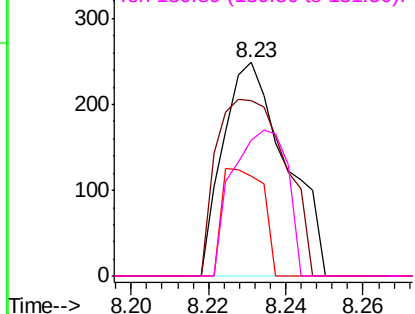


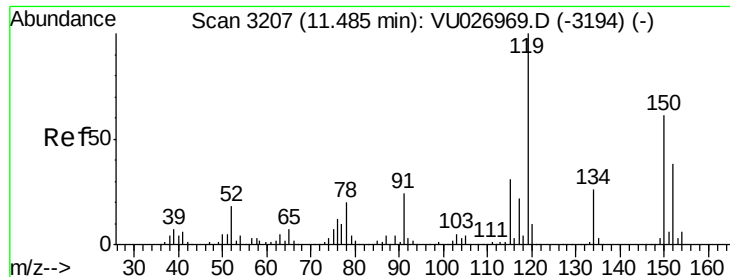
#64
Tetrachloroethene
Concen: 0.255 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

Tgt Ion:164 Resp: 281
Ion Ratio Lower Upper
164 100
166 82.3 104.4 156.6#
129 46.6 78.7 118.1#
131 63.5 73.9 110.9#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



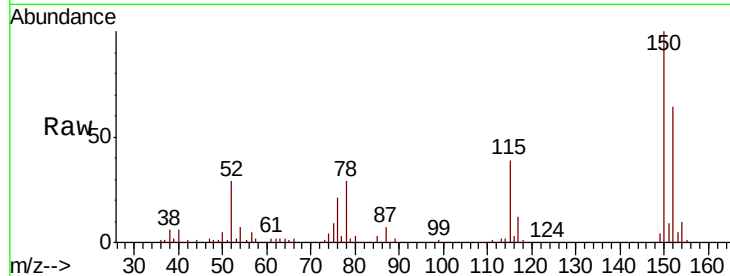


#72

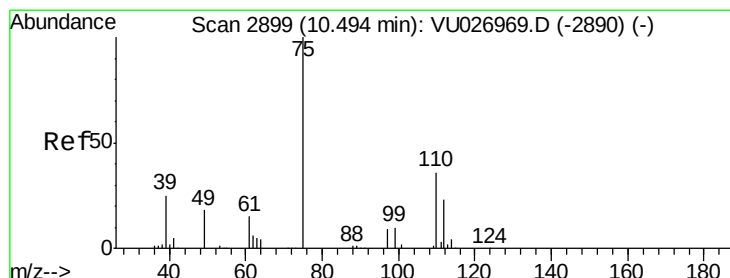
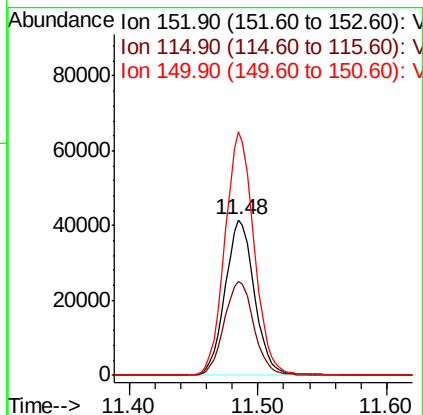
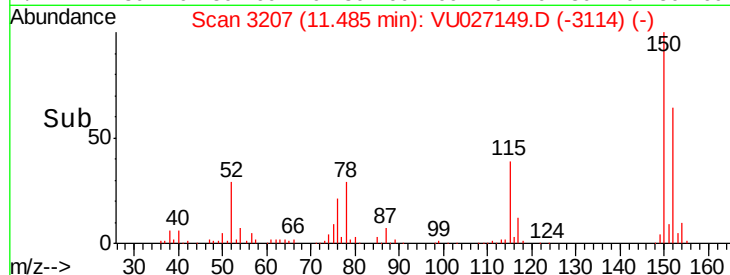
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ149I1-20180916

Tot Ion:152 Resp: 65372
Ion Ratio Lower Upper
152 100
115 61.1 44.9 134.5
150 156.7 0.0 355.8



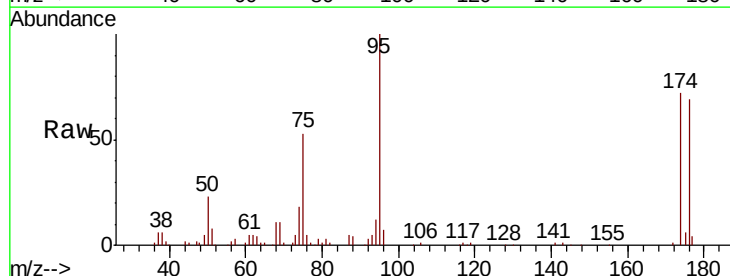
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



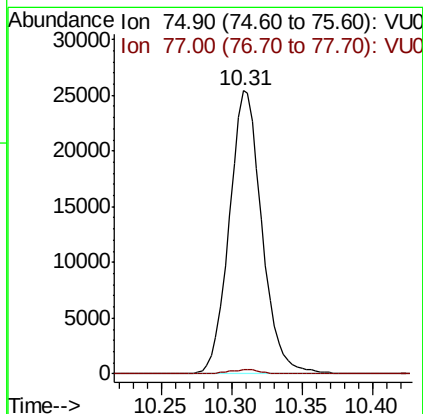
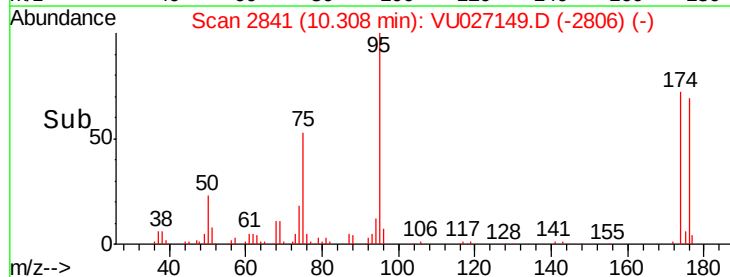
#76

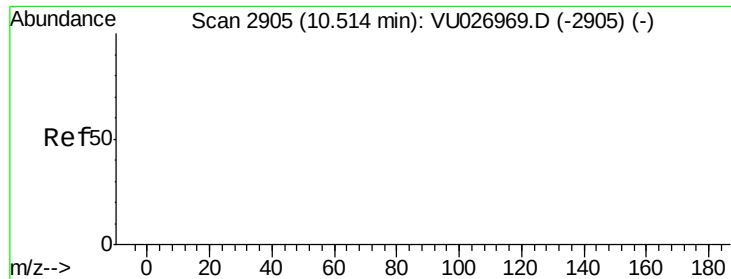
1,2,3-Trichloropropane
Concen: 20.674 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU027149.D
Acq: 26 Sep 2018 00:33

Tgt Ion: 75 Resp: 41058
Ion Ratio Lower Upper
75 100
77 1.3 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: 66.160 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027149.D

Acq: 26 Sep 2018 00:33

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ149I1-20180916

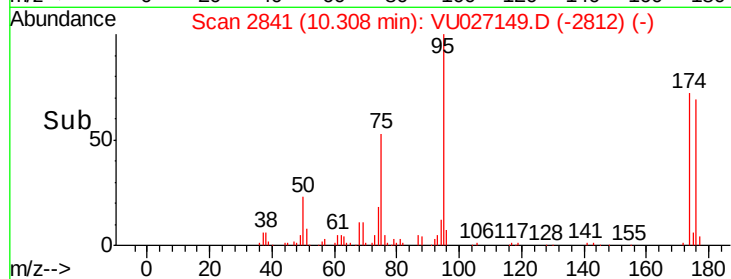
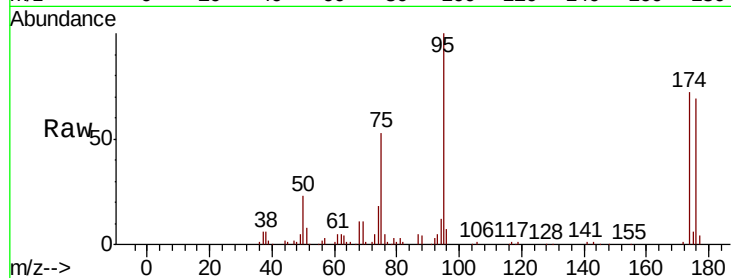
Tot Ion: 75 Resp: 41058

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

