

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092018\
 Data File : VU026919.D
 Acq On : 19 Sep 2018 23:55
 Operator : MD/SY
 Sample : J4934-16
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ145I-20180912

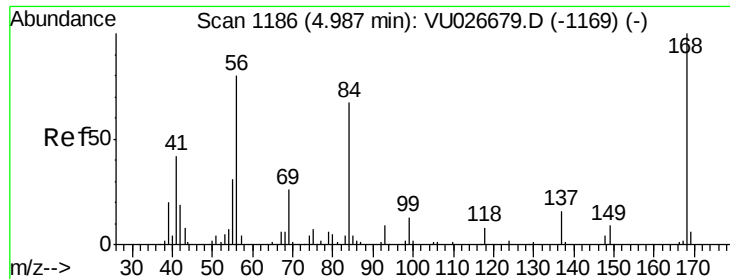
Quant Time: Sep 20 05:37:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U091218W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 05:32:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	80553	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	136406	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	137460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72552	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	69757	57.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.18%	
35) Dibromofluoromethane	4.88	113	62741	56.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.78%	
50) Toluene-d8	7.57	98	205106	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
62) 4-Bromofluorobenzene	10.31	95	67475	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	

Target Compounds						Qvalue
11) Tert butyl alcohol	2.84	59	336	1.128	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	1029	1.113	ug/l	89
14) Allyl chloride	2.45	41	1539	0.924	ug/l #	69
16) Acetone	2.32	43	1894	2.738	ug/l	91
18) Methyl Acetate	2.44	43	3984	2.669	ug/l #	54
20) Methylene Chloride	2.70	84	247	0.220	ug/l #	74
24) 1,1-Dichloroethane	3.45	63	13849	7.062	ug/l	95
31) Cyclohexane	4.99	56	1254	0.520	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	5411	3.533	ug/l #	49
38) Carbon Tetrachloride	4.99	117	7113	4.396	ug/l #	17
51) 4-Methyl-2-Pentanone	7.57	43	766	0.408	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	33946	20.887	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	33946	64.198	ug/l #	100
87) 1,3-Dichlorobenzene	11.51	146	794	0.317	ug/l #	12
88) 1,4-Dichlorobenzene	11.51	146	794	0.305	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.00 min

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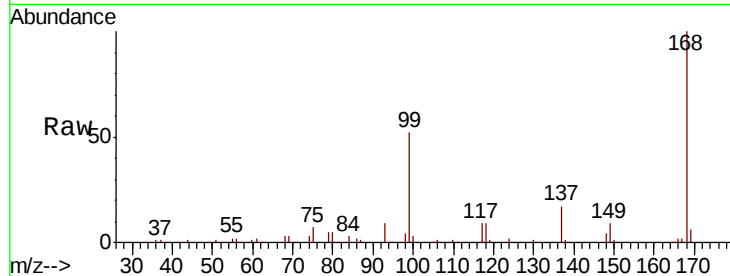
SA-PZ145I-20180912

Tgt Ion:168 Resp: 80553

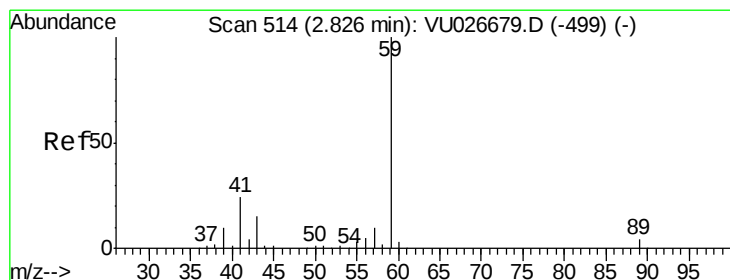
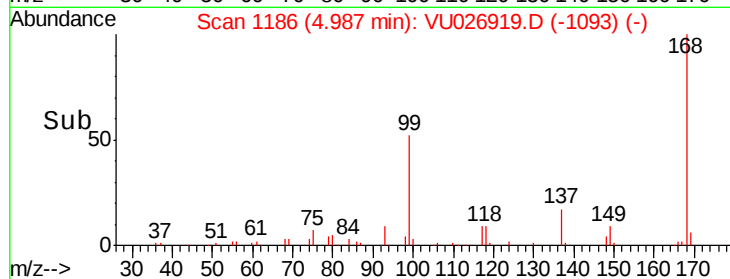
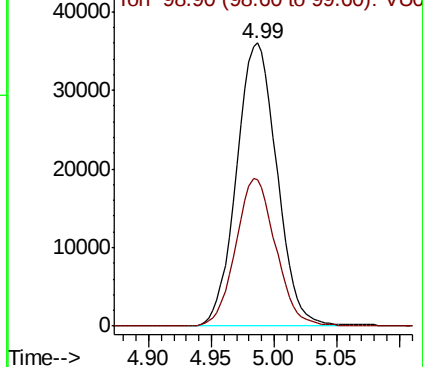
Ion Ratio Lower Upper

168 100

99 51.9 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU026679.D (-1169) (-)



#11

Tert butyl alcohol

Concen: 1.128 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU026919.D

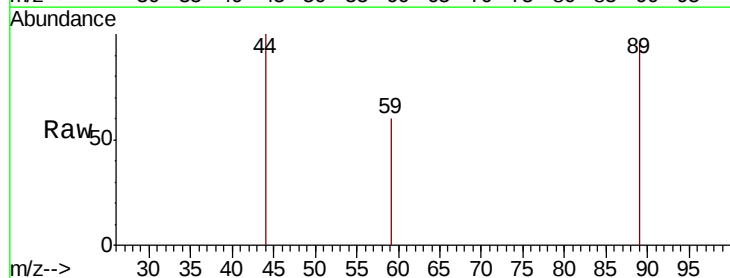
Acq: 19 Sep 2018 23:55

Tgt Ion: 59 Resp: 336

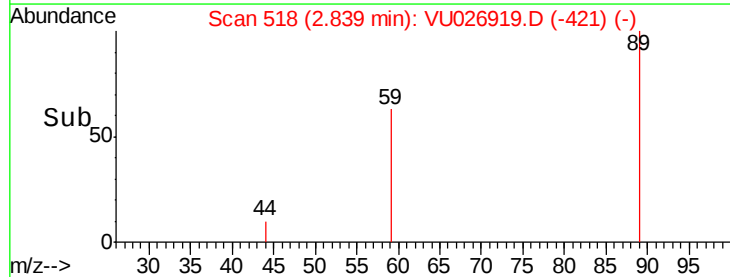
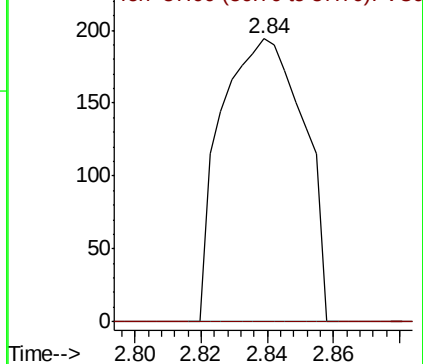
Ion Ratio Lower Upper

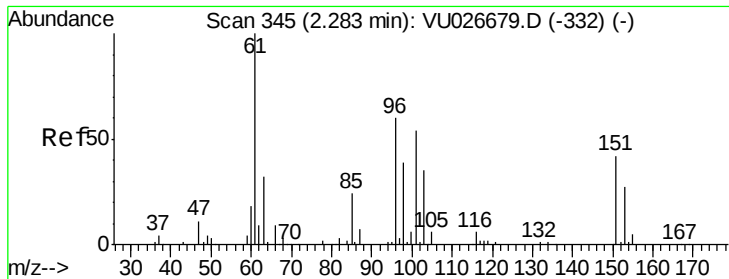
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU026679.D (-499) (-)





#12

1,1-Dichloroethene

Concen: 1.113 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ145I-20180912

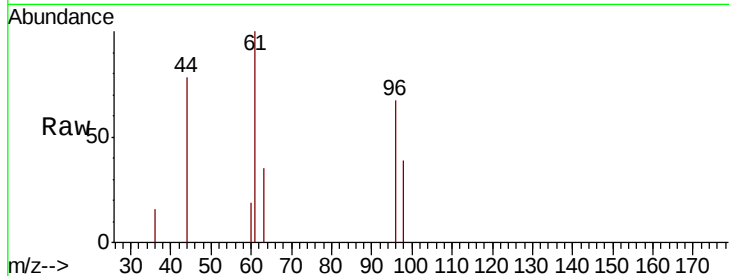
Tgt Ion: 96 Resp: 1029

Ion Ratio Lower Upper

96 100

61 148.5 133.0 199.6

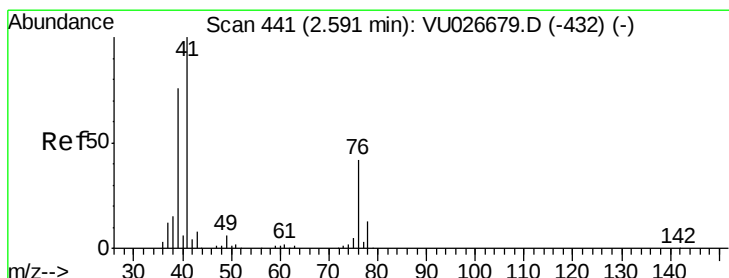
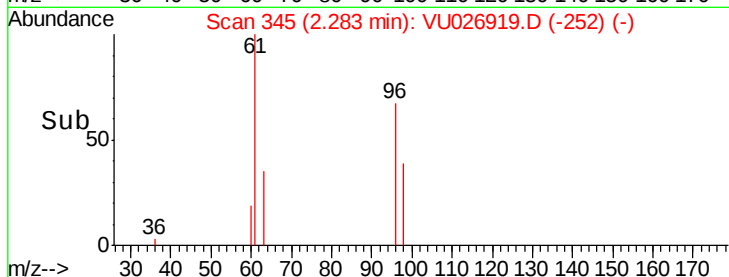
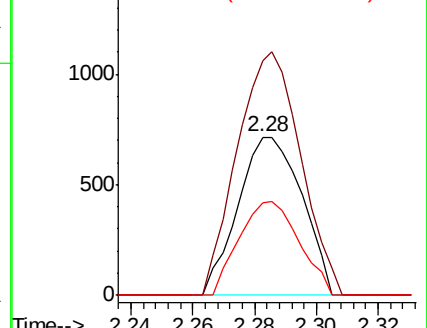
98 58.5 51.3 76.9



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#14

Allyl chloride

Concen: 0.924 ug/l

RT: 2.45 min Scan# 396

Delta R.T. -0.14 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

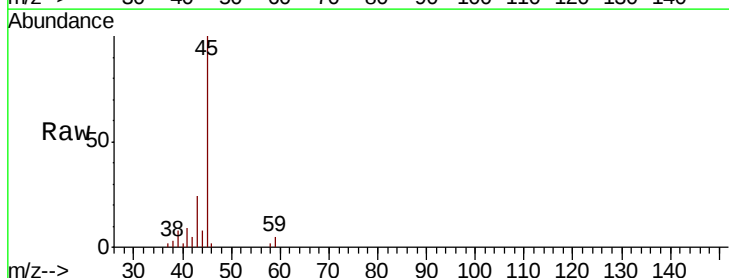
Tgt Ion: 41 Resp: 1539

Ion Ratio Lower Upper

41 100

39 83.4 56.9 85.3

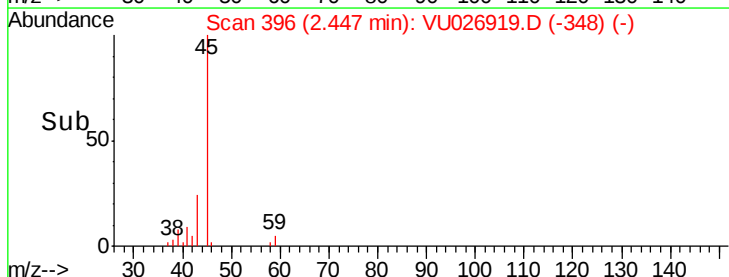
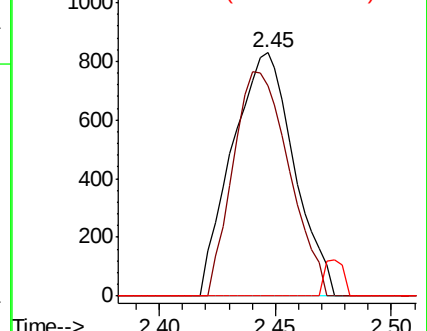
76 0.0 29.7 44.5#

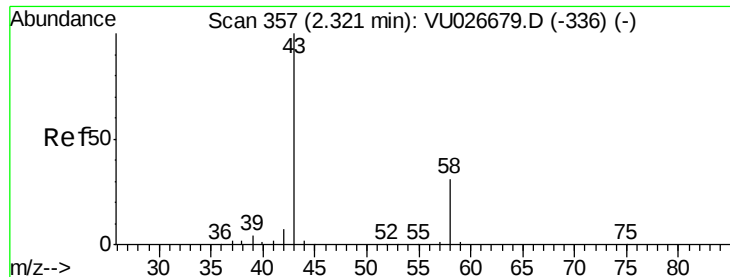


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#16

Acetone

Concen: 2.738 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

Instrument :

MSVOA_U

ClientSampleId :

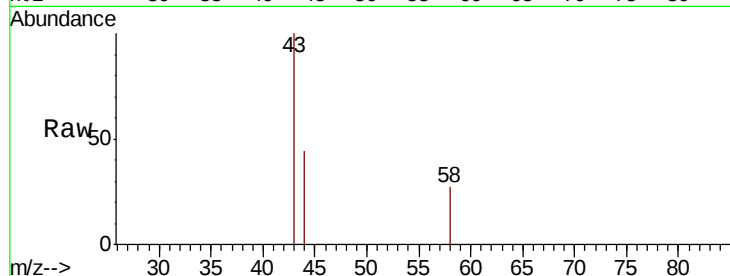
SA-PZ145I-20180912

Tgt Ion: 43 Resp: 1894

Ion Ratio Lower Upper

43 100

58 26.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

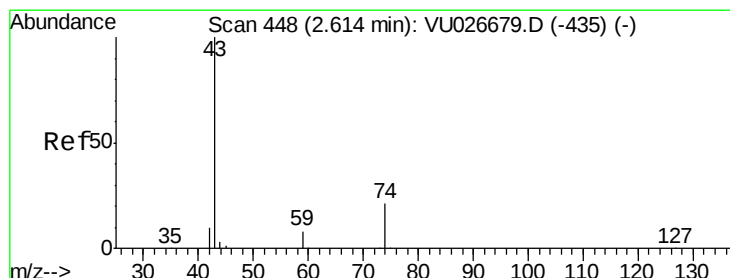
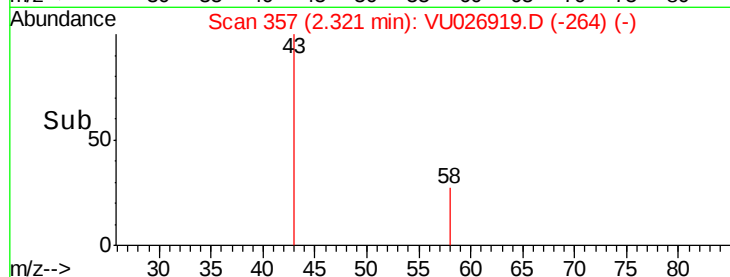
2.32

1000

500

0

Time-->



#18

Methyl Acetate

Concen: 2.669 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU026919.D

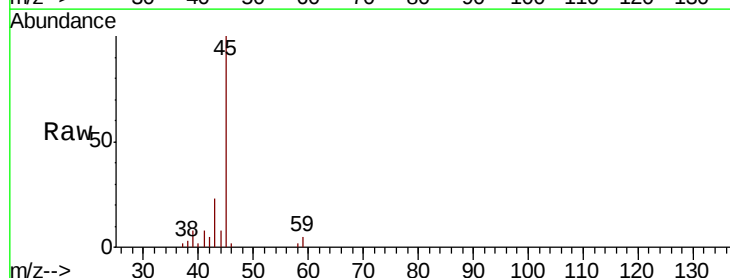
Acq: 19 Sep 2018 23:55

Tgt Ion: 43 Resp: 3984

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.44

2500

2000

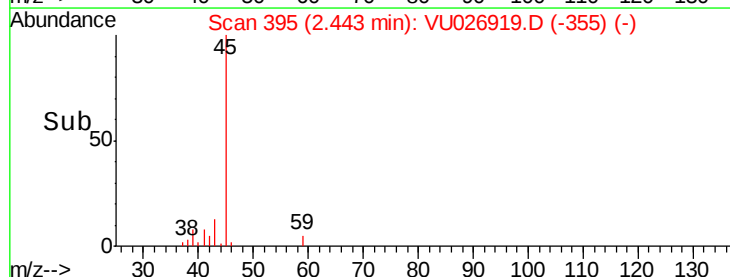
1500

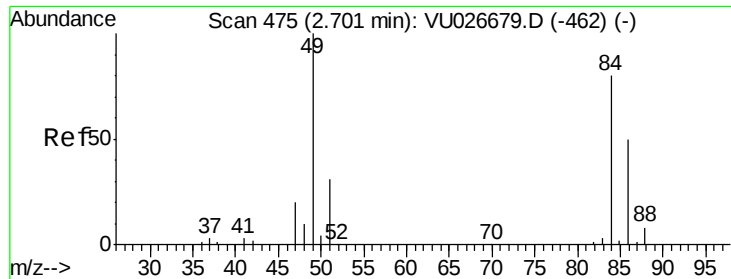
1000

500

0

Time-->

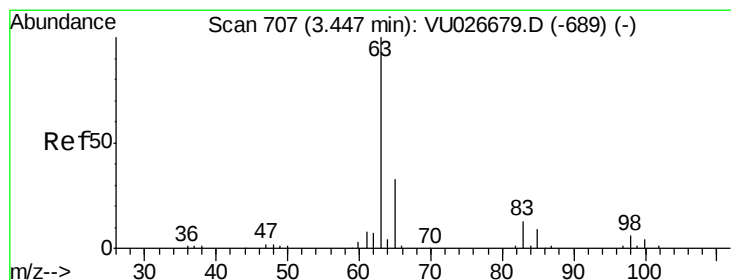
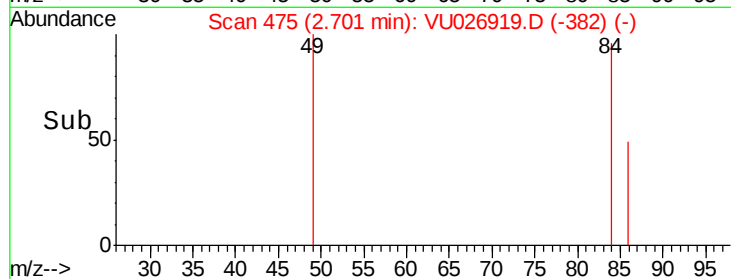
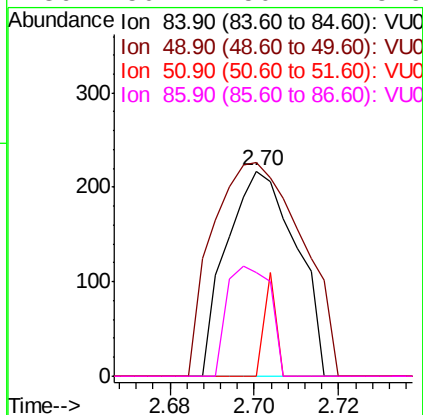
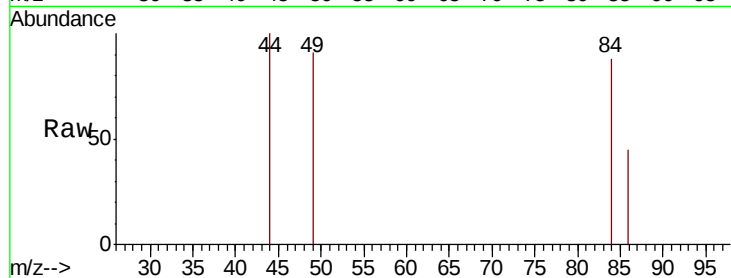




#20
Methylene Chloride
Concen: 0.220 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU026919.D
Acq: 19 Sep 2018 23:55

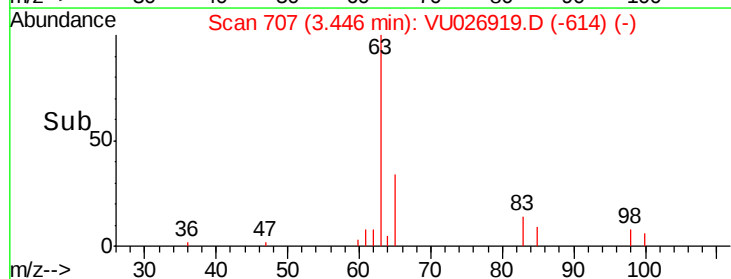
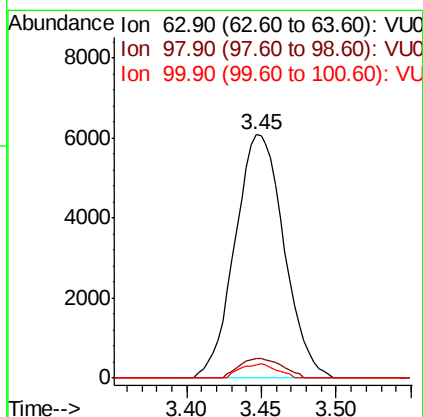
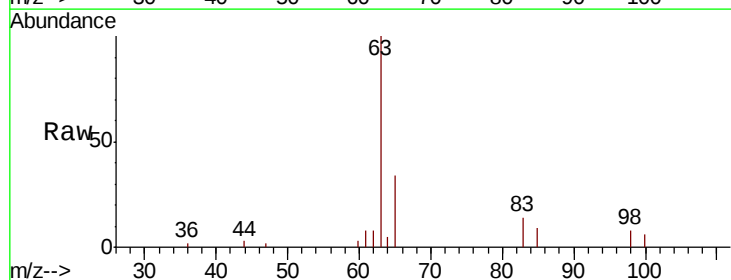
Instrument :
MSVOA_U
ClientSampleId :
SA-PZ145I-20180912

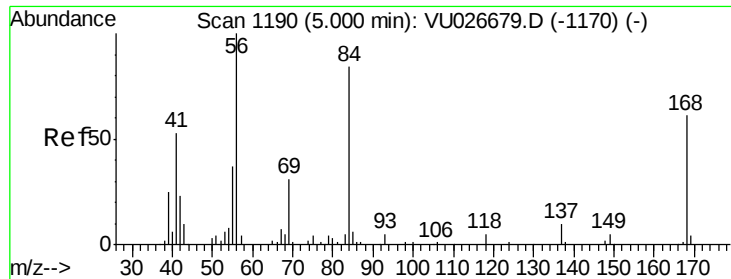
Tgt Ion: 84 Resp: 247
Ion Ratio Lower Upper
84 100
49 104.1 100.6 151.0
51 0.0 30.9 46.3#
86 50.7 50.4 75.6



#24
1,1-Dichloroethane
Concen: 7.062 ug/l
RT: 3.45 min Scan# 707
Delta R.T. -0.00 min
Lab File: VU026919.D
Acq: 19 Sep 2018 23:55

Tgt Ion: 63 Resp: 13849
Ion Ratio Lower Upper
63 100
98 8.1 3.1 9.4
100 5.6 2.0 6.0

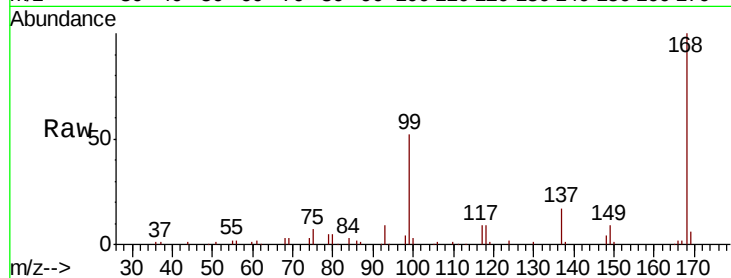




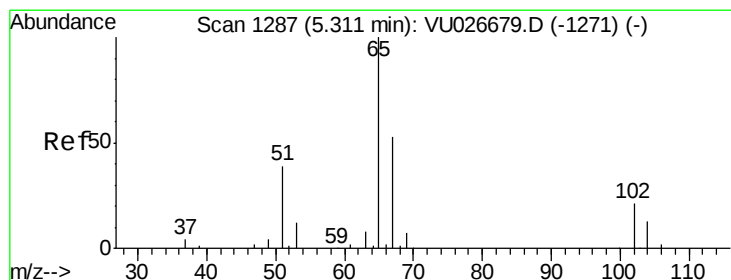
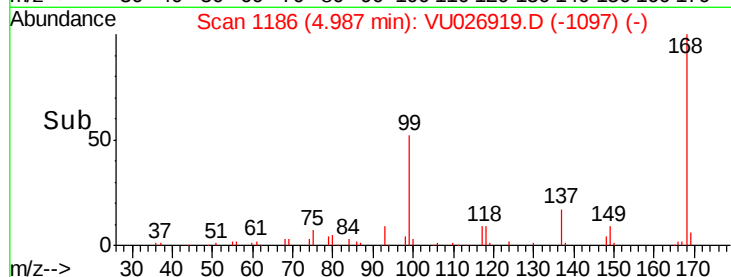
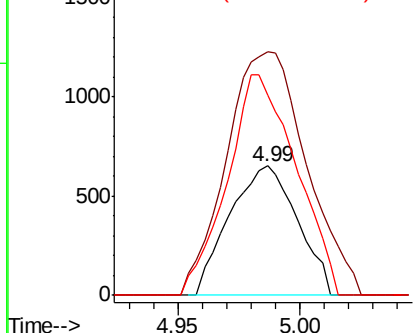
#31
Cyclohexane
Concen: 0.520 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU026919.D
Acq: 19 Sep 2018 23:55

Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 56 Resp: 1254
Ion Ratio Lower Upper
56 100
69 171.7 24.9 37.3#
84 155.0 66.6 100.0#

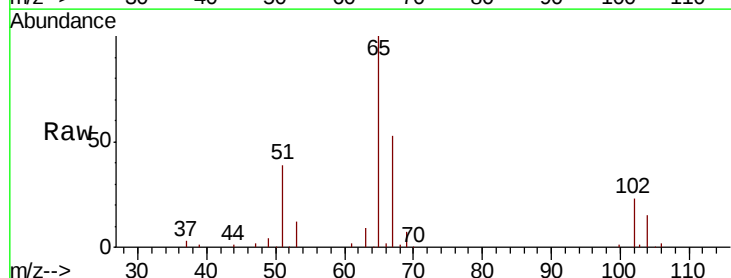


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

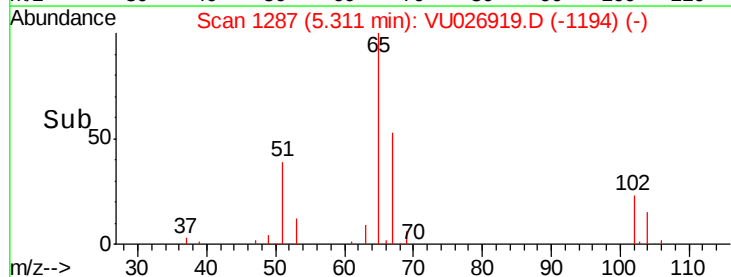
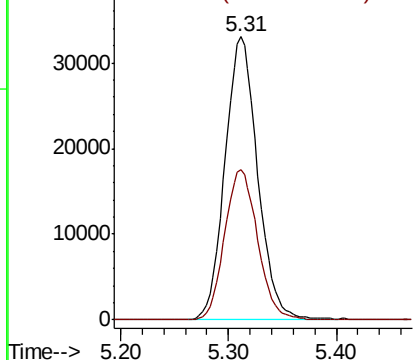


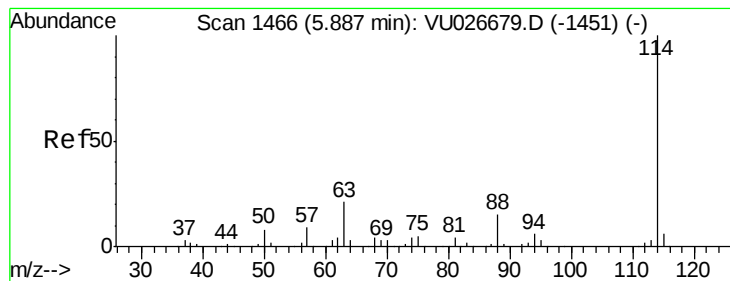
#33
1,2-Dichloroethane-d4
Concen: 57.087 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU026919.D
Acq: 19 Sep 2018 23:55

Tgt Ion: 65 Resp: 69757
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.4



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: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

Instrument :

MSVOA_U

ClientSampleId :

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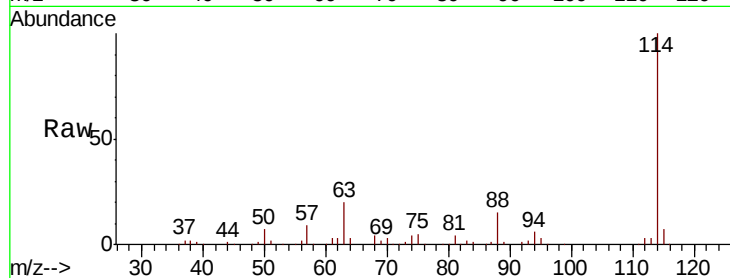
Tgt Ion:114 Resp: 136406

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

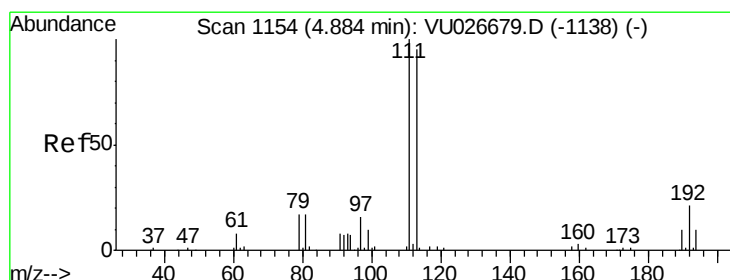
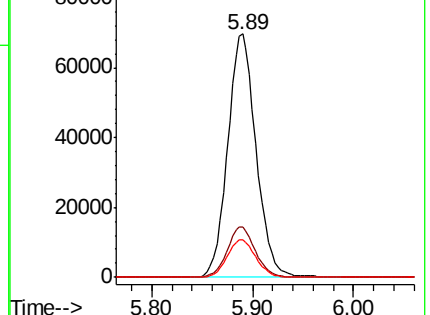
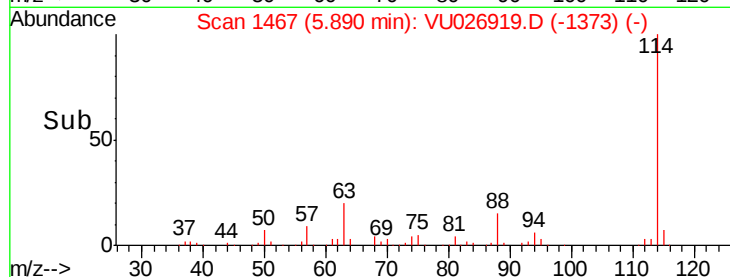
88 15.3 0.0 30.8



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: 56.388 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

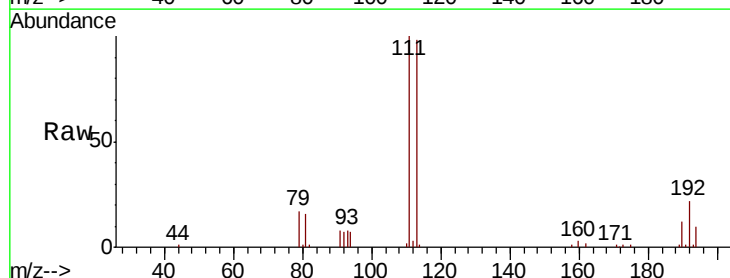
Tgt Ion:113 Resp: 62741

Ion Ratio Lower Upper

113 100

111 102.1 83.1 124.7

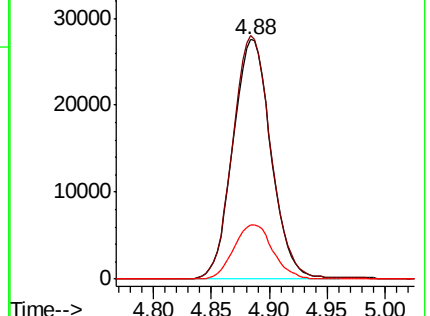
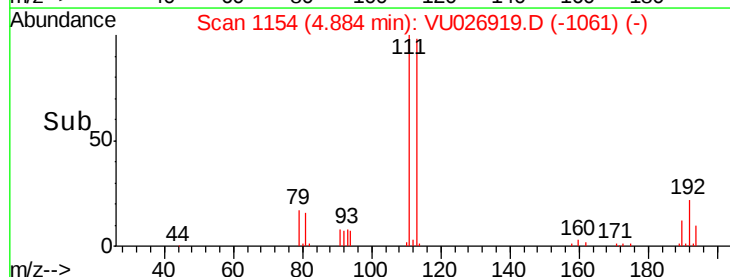
192 23.0 17.4 26.2

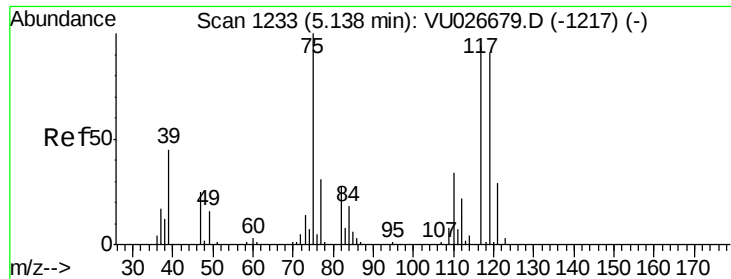


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

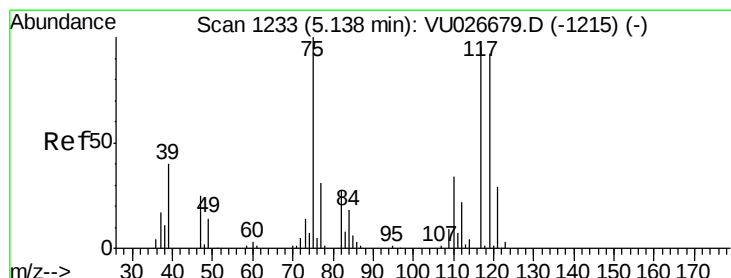
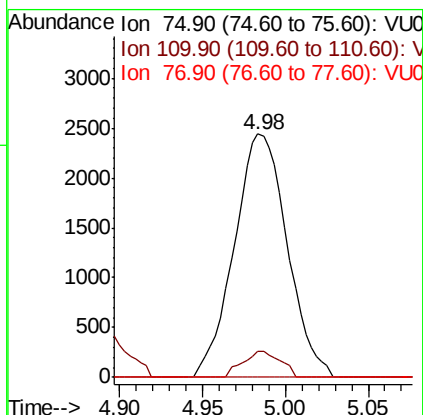
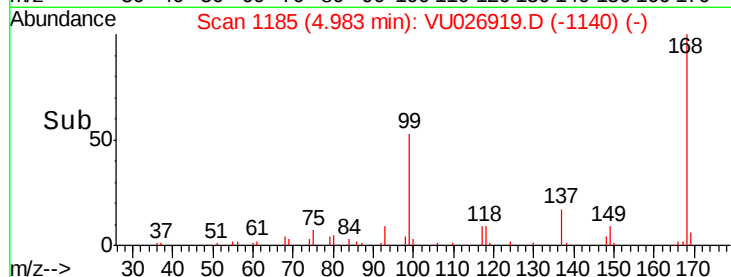
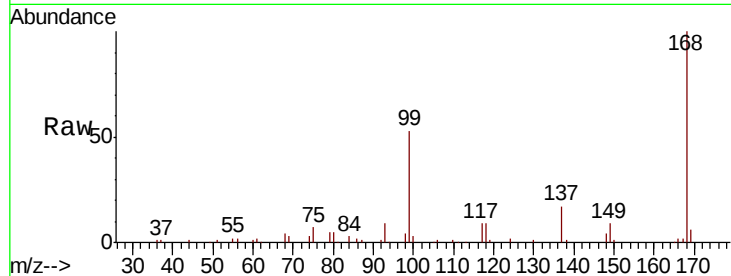




#36
 1,1-Dichloropropene
 Concen: 3.533 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU026919.D
 Acq: 19 Sep 2018 23:55

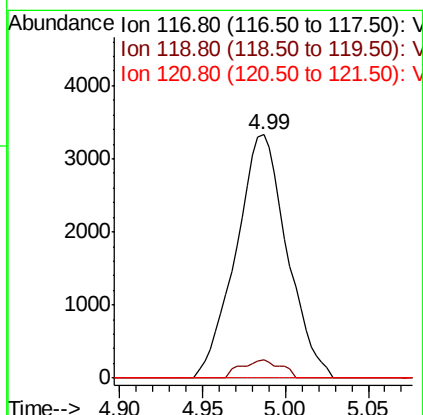
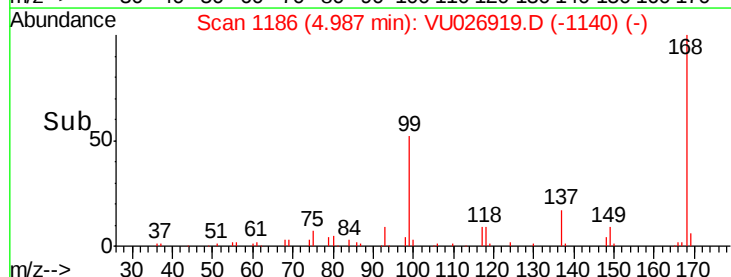
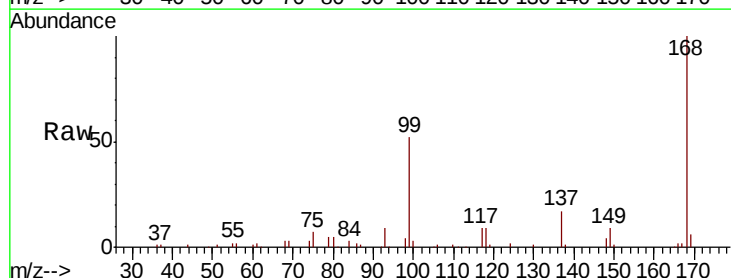
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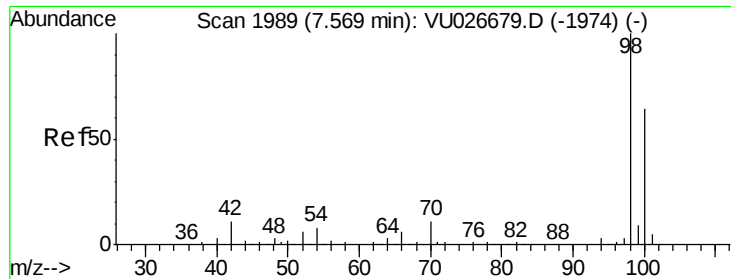
Tgt Ion: 75 Resp: 5411
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.3 51.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 4.396 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU026919.D
 Acq: 19 Sep 2018 23:55

Tgt Ion: 117 Resp: 7113
 Ion Ratio Lower Upper
 117 100
 119 7.3 77.8 116.8#
 121 0.0 25.0 37.4#

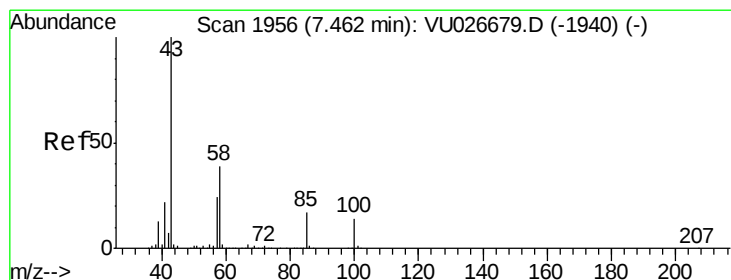
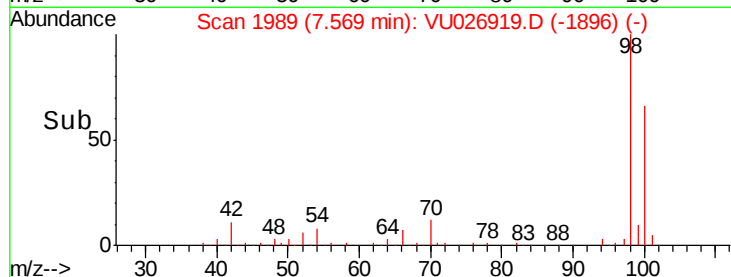
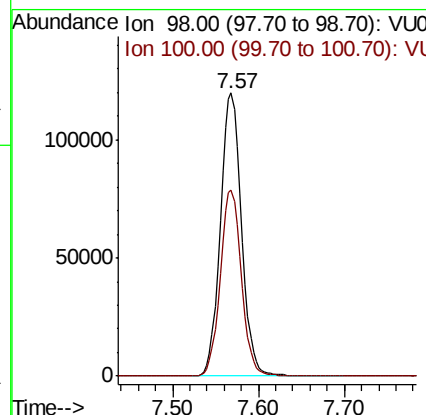
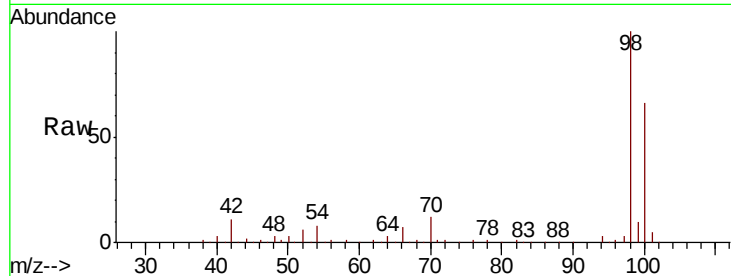




#50
Toluene-d8
Concen: 49.840 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. -0.00 min
Lab File: VU026919.D
Acq: 19 Sep 2018 23:55

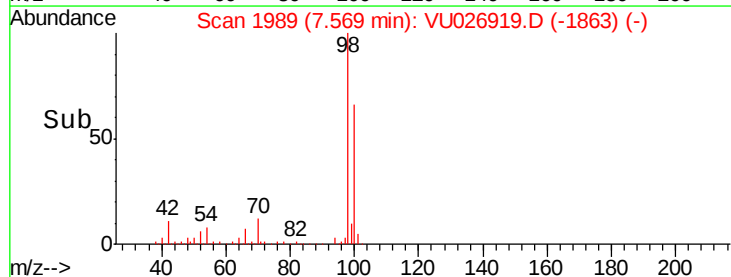
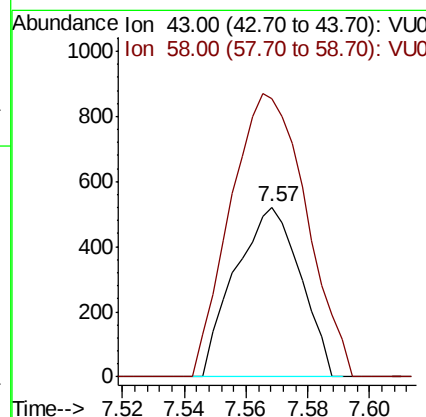
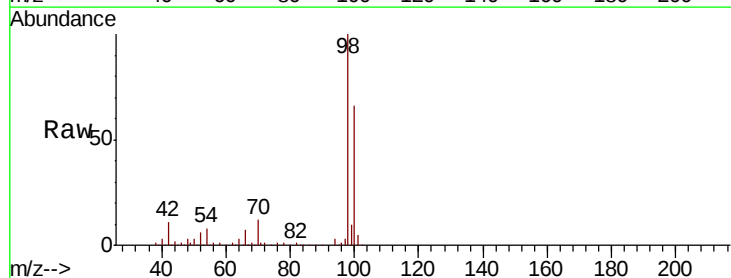
Instrument :
MSVOA_U
ClientSampleId :
SA-PZ145I-20180912

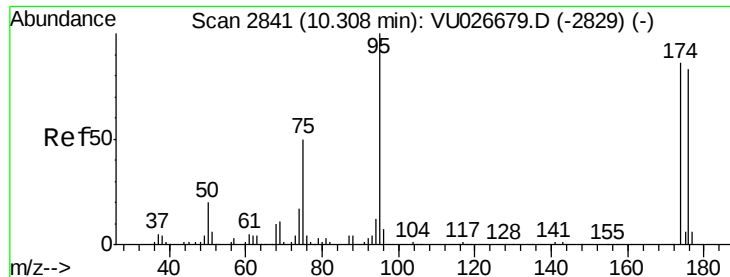
Tgt Ion: 98 Resp: 205106
Ion Ratio Lower Upper
98 100
100 65.5 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.408 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.11 min
Lab File: VU026919.D
Acq: 19 Sep 2018 23:55

Tgt Ion: 43 Resp: 766
Ion Ratio Lower Upper
43 100
58 193.3 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 45.240 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ145I-20180912

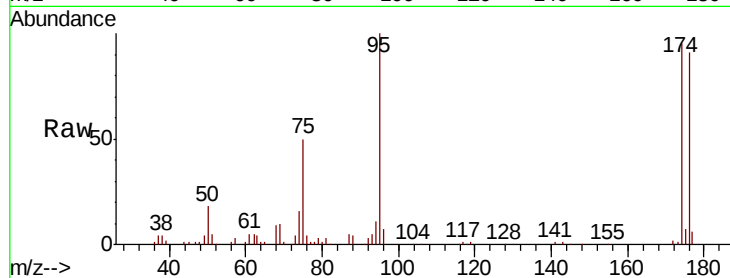
Tgt Ion: 95 Resp: 67475

Ion Ratio Lower Upper

95 100

174 95.4 0.0 172.8

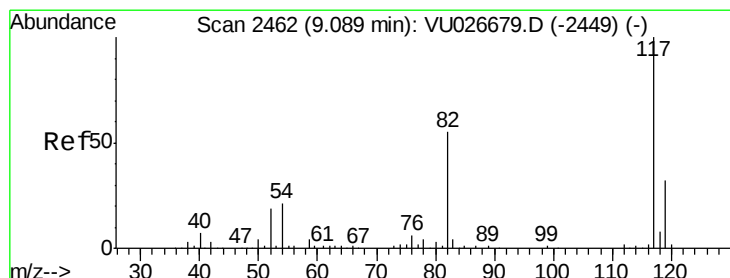
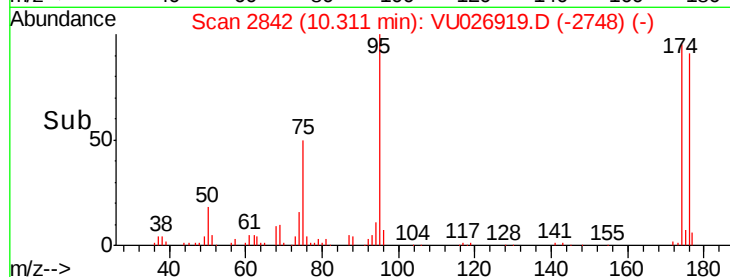
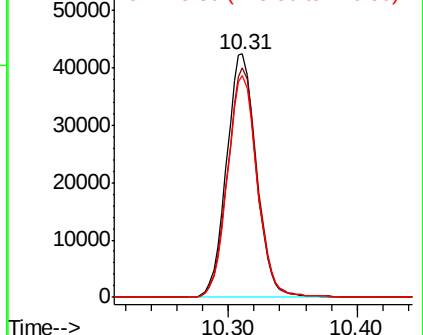
176 91.1 0.0 168.6



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: VU026919.D

Acq: 19 Sep 2018 23:55

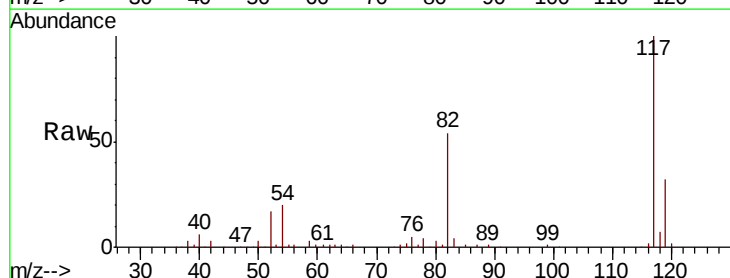
Tgt Ion: 117 Resp: 137460

Ion Ratio Lower Upper

117 100

82 54.1 44.1 66.1

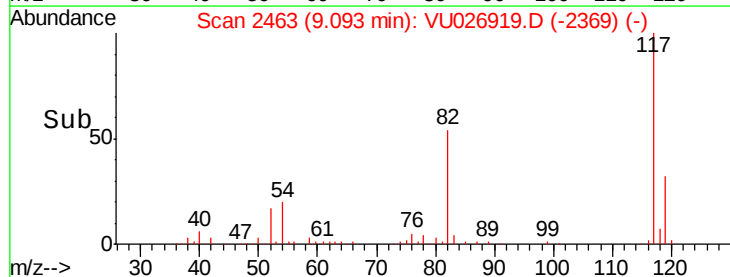
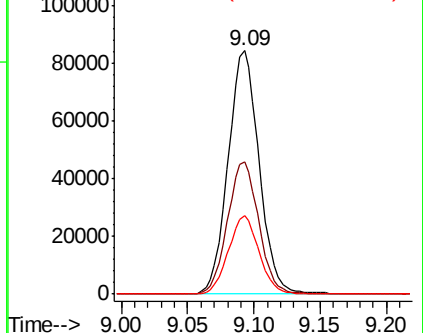
119 32.1 25.7 38.5

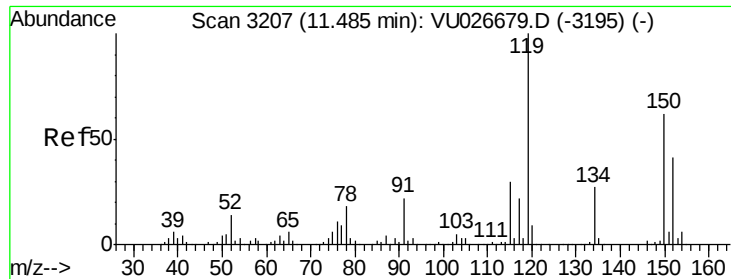


Abundance Ion 116.90 (116.60 to 117.60): V

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# 3207

Delta R.T. -0.00 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ145I-20180912

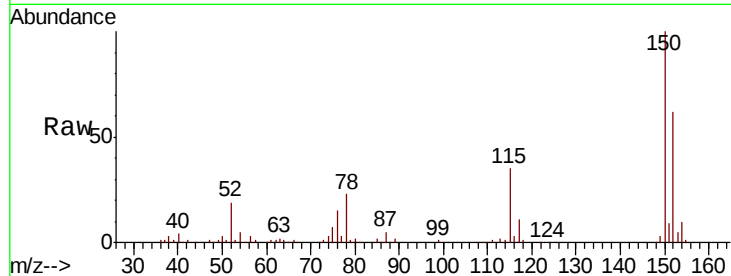
Tgt Ion:152 Resp: 72552

Ion Ratio Lower Upper

152 100

115 55.7 40.4 121.1

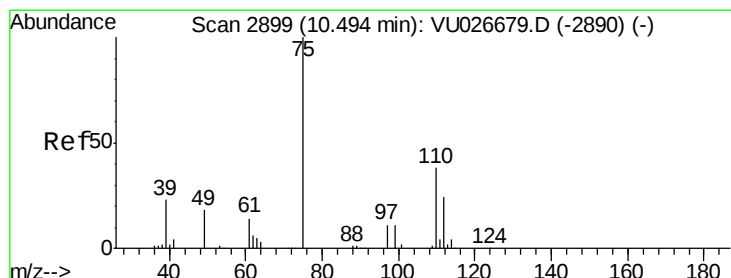
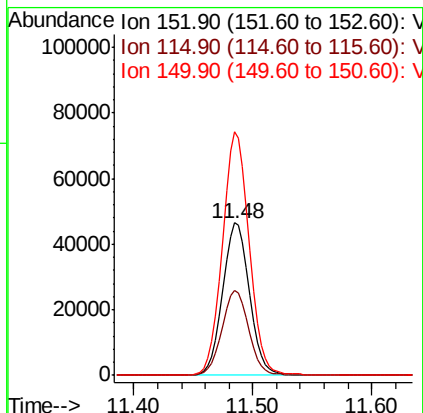
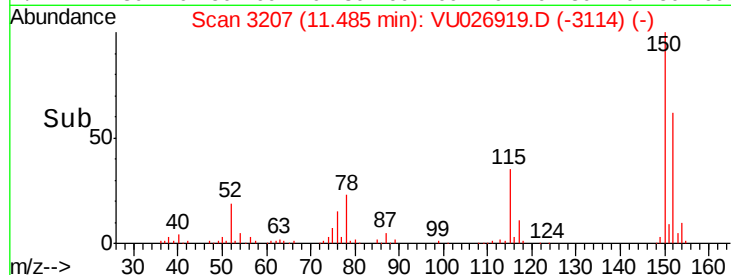
150 159.4 0.0 345.2



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: 20.887 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.18 min

Lab File: VU026919.D

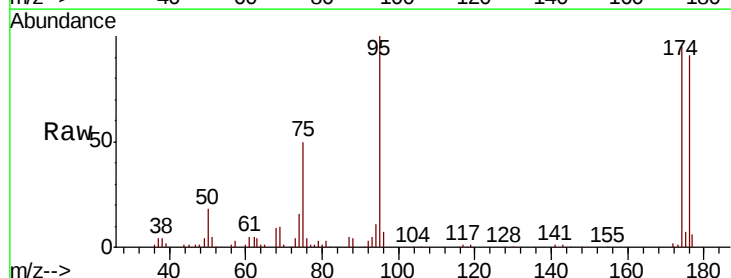
Acq: 19 Sep 2018 23:55

Tgt Ion: 75 Resp: 33946

Ion Ratio Lower Upper

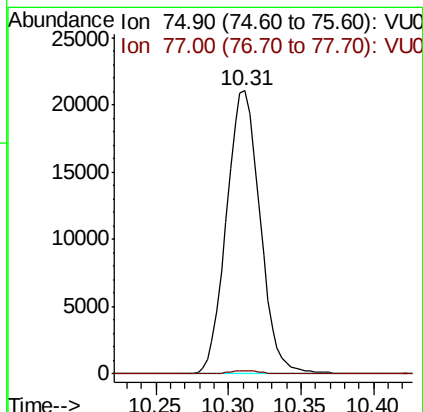
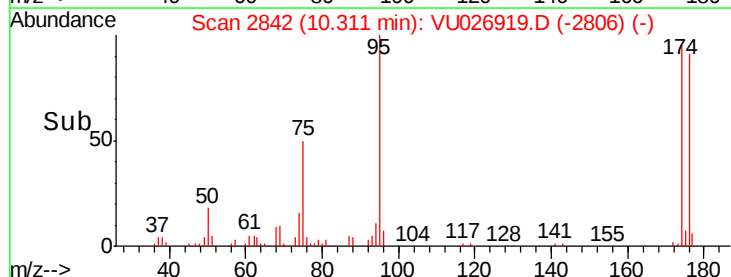
75 100

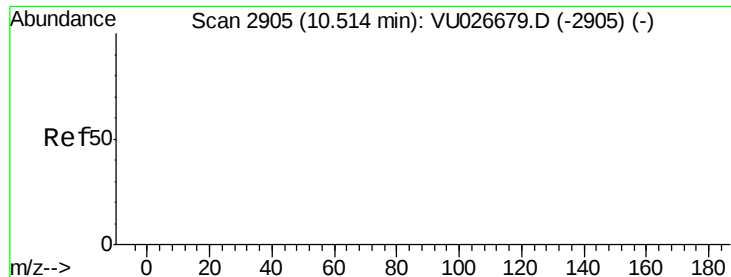
77 1.0 21.1 63.1#



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: 64.198 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.20 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ145I-20180912

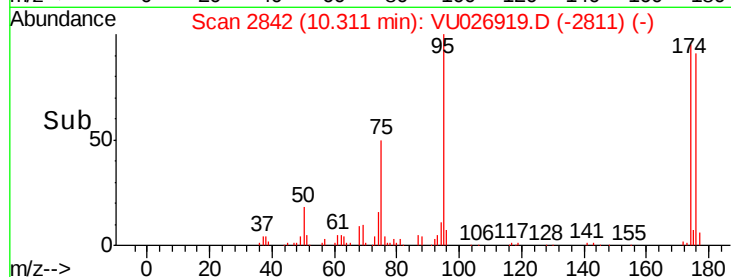
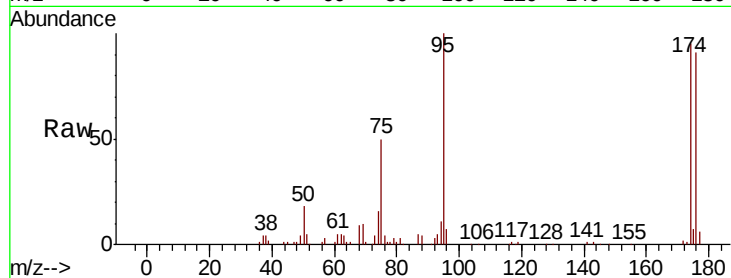
Tgt Ion: 75 Resp: 33946

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

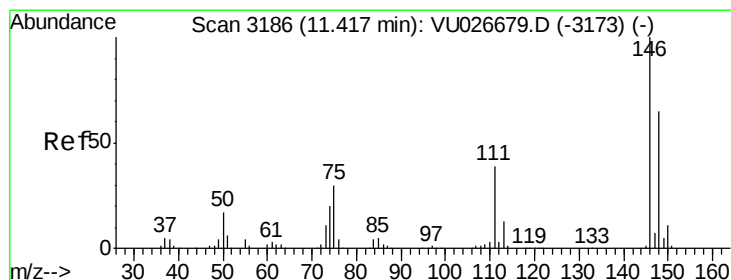
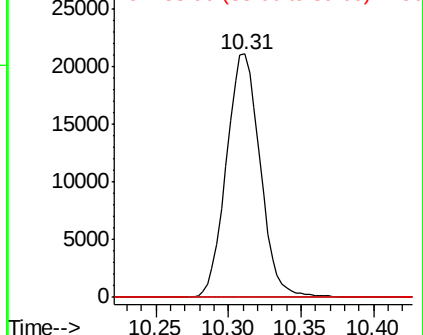
89 0.0 0.0 0.0



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



#87

1,3-Dichlorobenzene

Concen: 0.317 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. 0.09 min

Lab File: VU026919.D

Acq: 19 Sep 2018 23:55

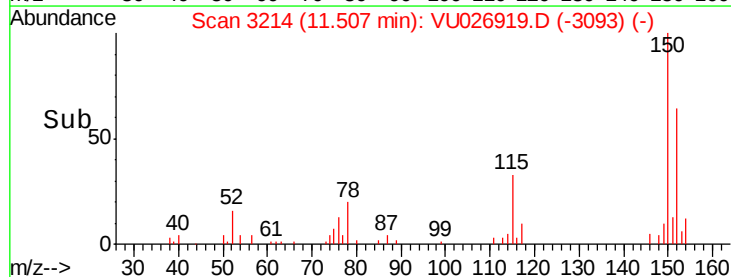
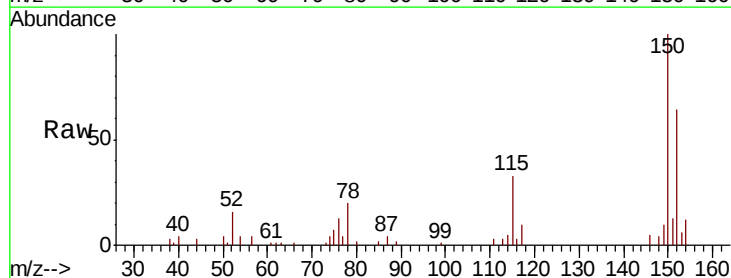
Tgt Ion: 146 Resp: 794

Ion Ratio Lower Upper

146 100

111 136.5 19.7 59.1#

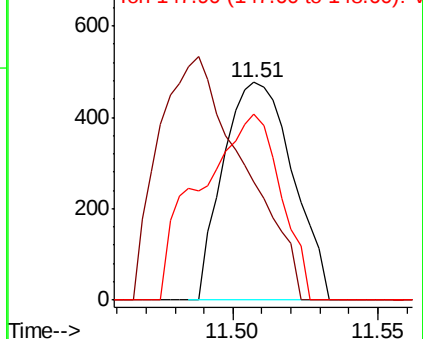
148 99.1 32.1 96.3#

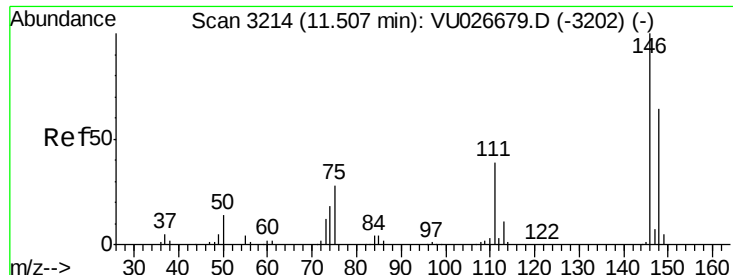


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 0.305 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU026919.D

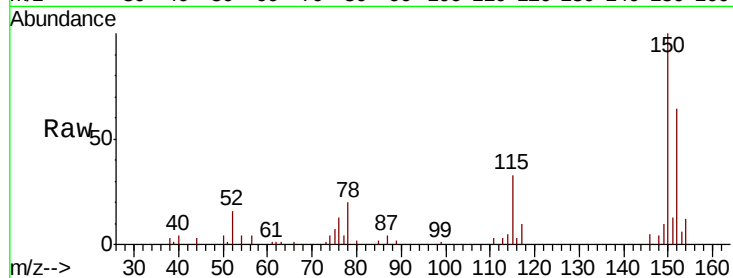
Acq: 19 Sep 2018 23:55

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ145I-20180912



Tgt Ion:	146	Resp:	794
Ion	Ratio	Lower	Upper
146	100		
111	136.5	19.2	57.6#
148	99.1	32.1	96.3#

