

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062718\
 Data File : VU024948.D
 Acq On : 27 Jun 2018 02:46
 Operator : MD/SY
 Sample : J3664-22ME 20X
 Misc : 5.64g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB471-31-33-180619ME

Quant Time: Jun 27 04:19:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	204667	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308929	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	287880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	154453	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	154006	46.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.18%	
35) Dibromofluoromethane	4.89	113	121081	47.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.46%	
50) Toluene-d8	7.57	98	453721	48.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.04%	
62) 4-Bromofluorobenzene	10.31	95	168656	45.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.84%	

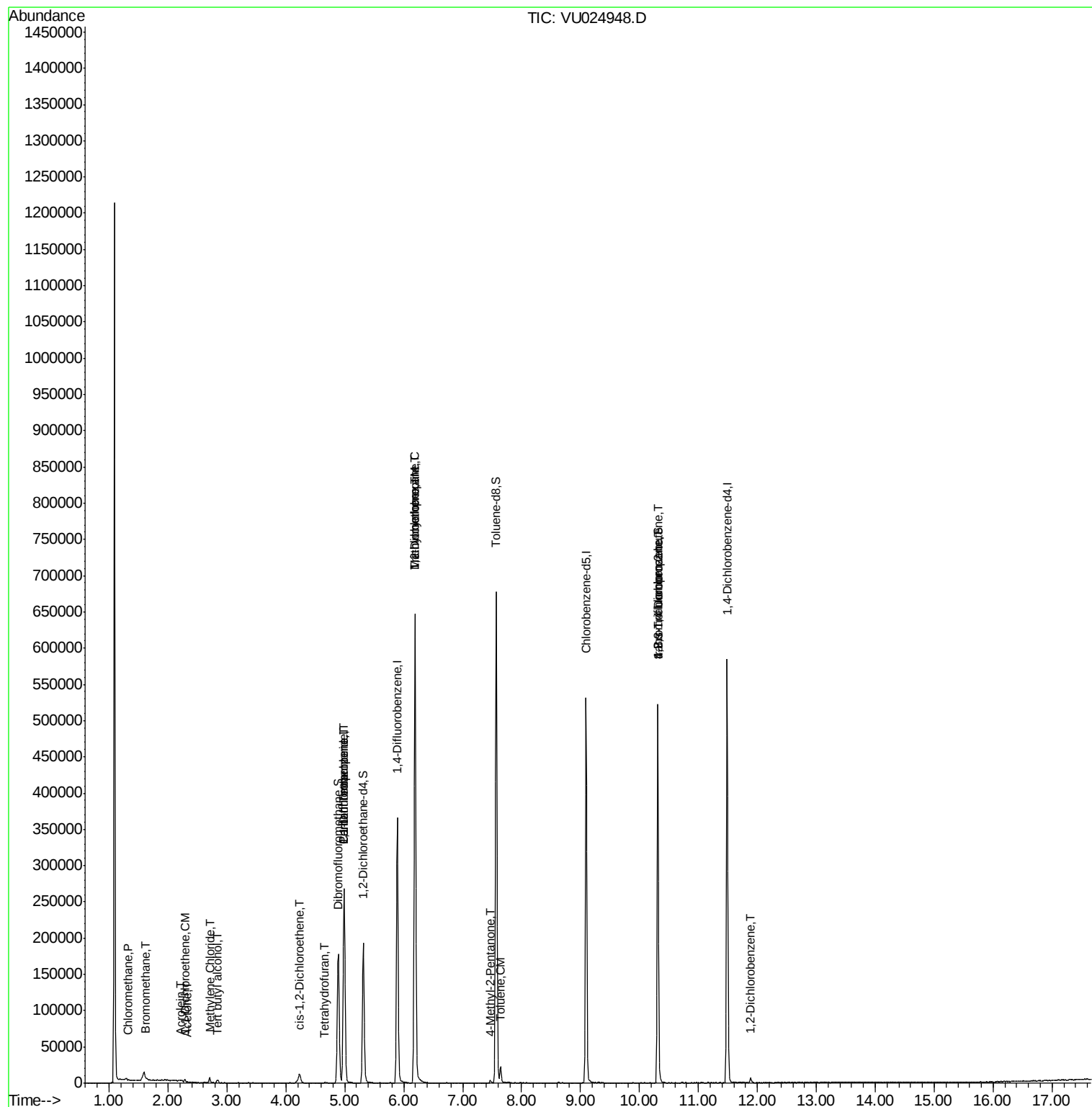
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	724	0.277	ug/l #	75
5) Bromomethane	1.63	94	446	0.342	ug/l #	80
6) Chloroethane	1.72	64	20	Below Cal	#	43
11) Tert butyl alcohol	2.84	59	2029	2.497	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	1359	0.583	ug/l	93
13) Acrolein	2.20	56	106	0.248	ug/l	89
16) Acetone	2.32	43	1030	0.574	ug/l #	44
20) Methylene Chloride	2.71	84	3441	1.222	ug/l #	81
27) cis-1,2-Dichloroethene	4.23	96	6525	2.211	ug/l	92
29) Tetrahydrofuran	4.65	42	356	0.238	ug/l #	34
31) Cyclohexane	4.99	56	4155	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15283	4.210	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19781	4.955	ug/l #	16
39) Methylcyclohexane	6.19	83	2801	0.618	ug/l #	1
44) Trichloroethene	6.19	130	227464	77.267	ug/l	98
45) 1,2-Dichloropropane	6.19	63	888	0.322	ug/l #	1
51) 4-Methyl-2-Pentanone	7.47	43	2391	0.556	ug/l	88
52) Toluene	7.64	92	9105	1.368	ug/l	94
76) 1,2,3-Trichloropropane	10.31	75	87601	25.761	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	87601	59.622	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	3185	0.573	ug/l	93

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

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Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

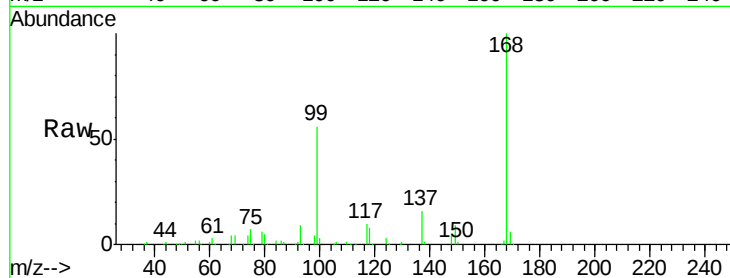
WP021SB471-31-33-180619ME

Tgt Ion:168 Resp: 204667

Ion Ratio Lower Upper

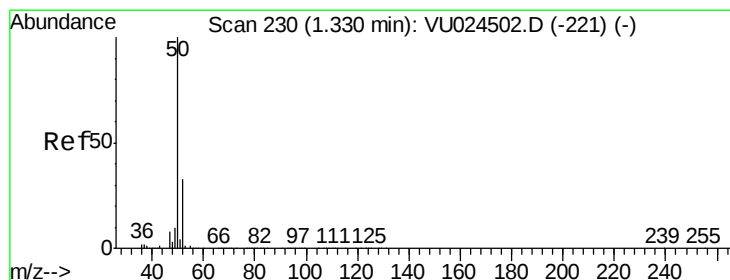
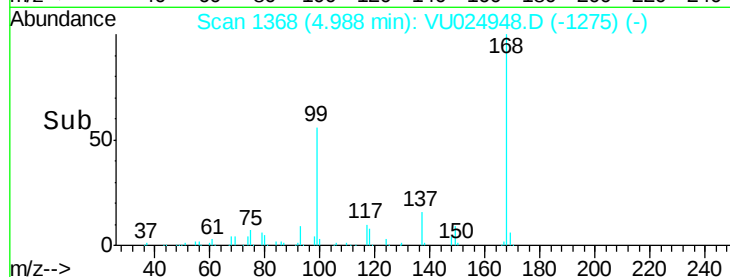
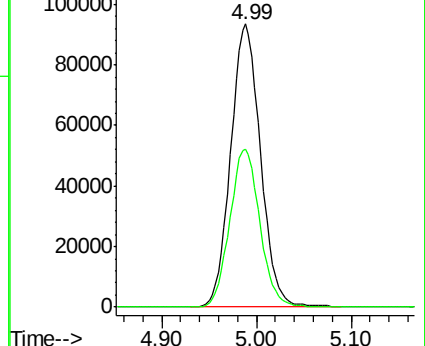
168 100

99 56.0 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024948.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024948.D (-1275) (-)



#3

Chloromethane

Concen: 0.277 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024948.D

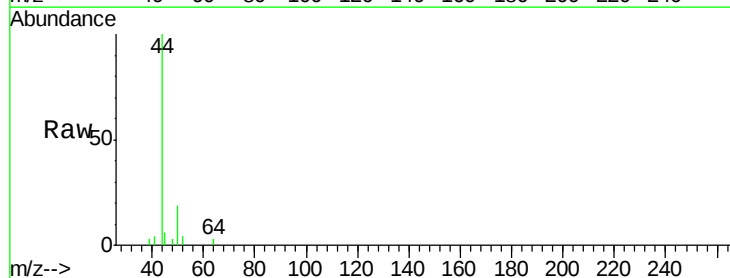
Acq: 27 Jun 2018 02:46

Tgt Ion: 50 Resp: 724

Ion Ratio Lower Upper

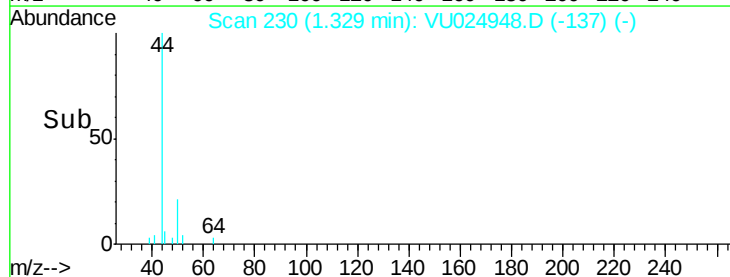
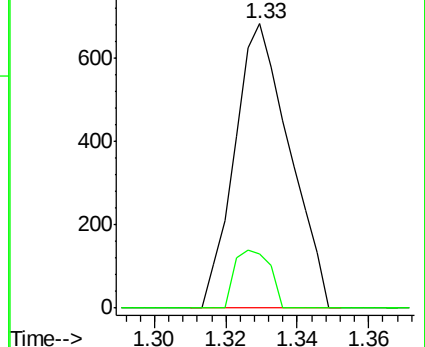
50 100

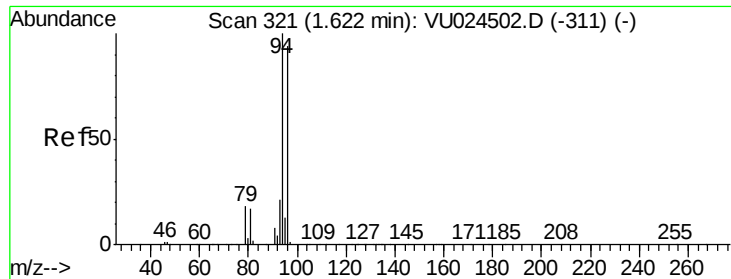
52 18.6 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024948.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024948.D (-137) (-)





#5

Bromomethane

Concen: 0.342 ug/l

RT: 1.63 min Scan# 322

Delta R.T. 0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

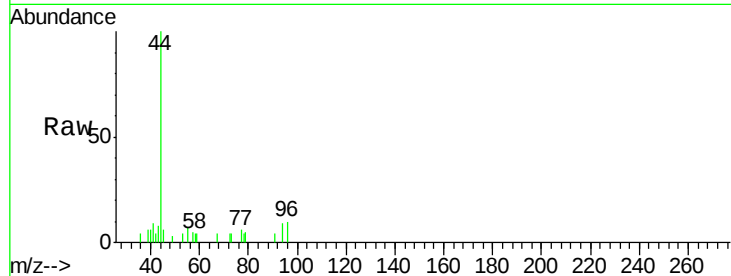
WP021SB471-31-33-180619ME

Tgt Ion: 94 Resp: 446

Ion Ratio Lower Upper

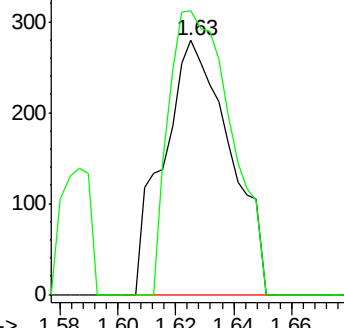
94 100

96 111.8 74.5 111.7#

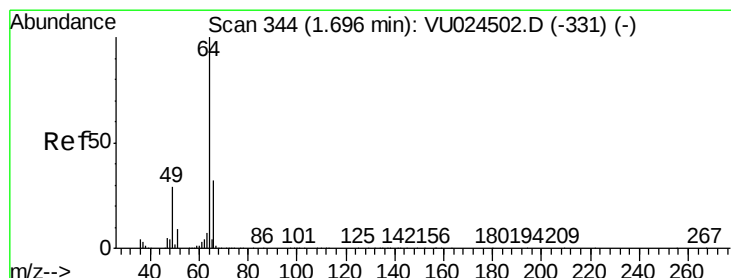
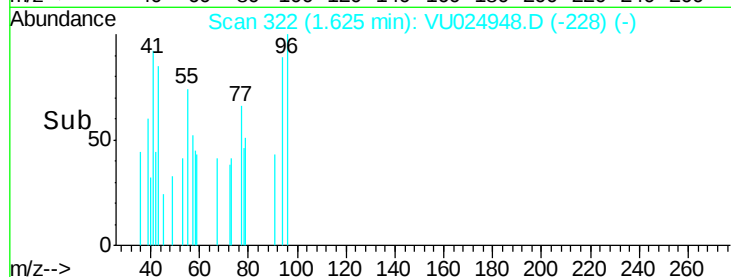


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time--> 1.58 1.60 1.62 1.64 1.66



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 350

Delta R.T. 0.02 min

Lab File: VU024948.D

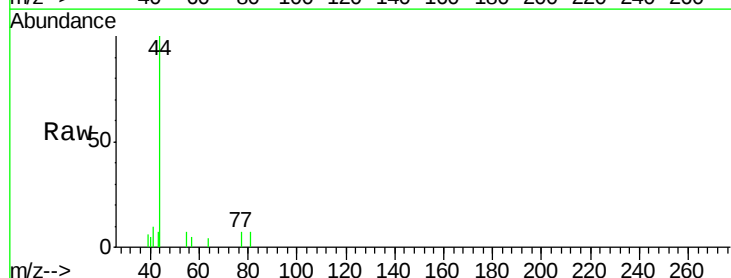
Acq: 27 Jun 2018 02:46

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

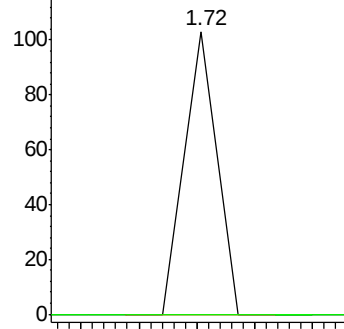
64 100

66 0.0 25.5 38.3#

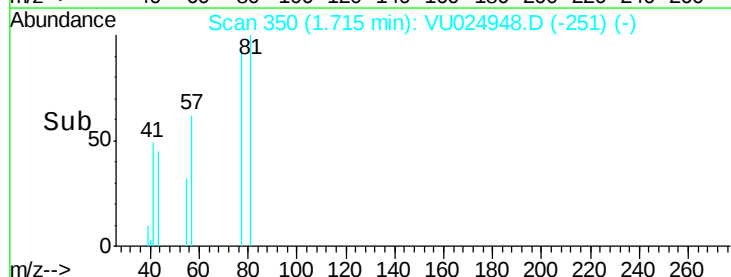


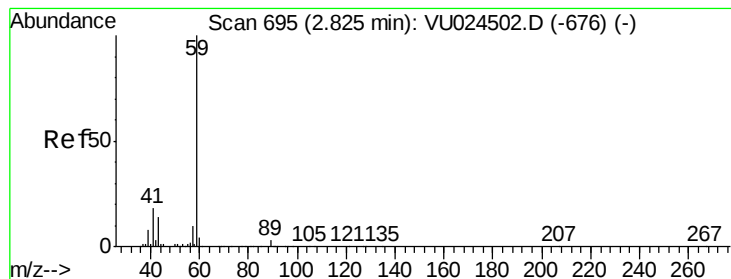
Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time--> 1.71 1.71 1.72 1.72 1.73



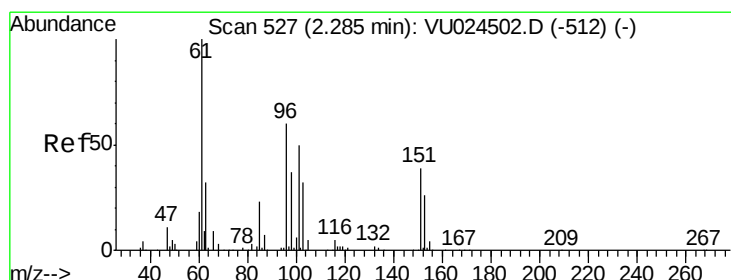
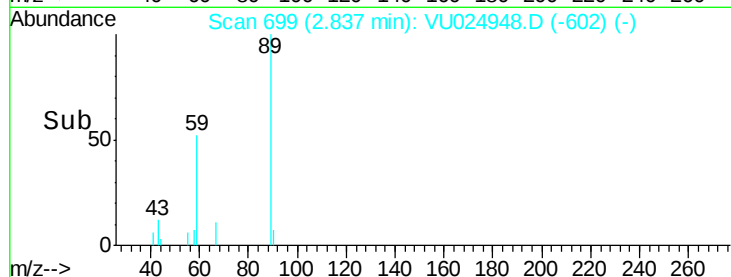
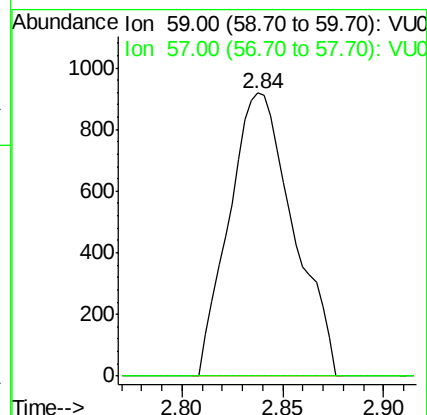
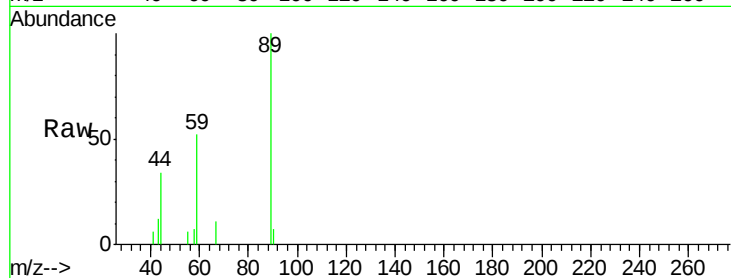


#11

Tert butyl alcohol
Concen: 2.497 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

Instrument :
MSVOA_U
ClientSampleId :
WP021SB471-31-33-180619ME

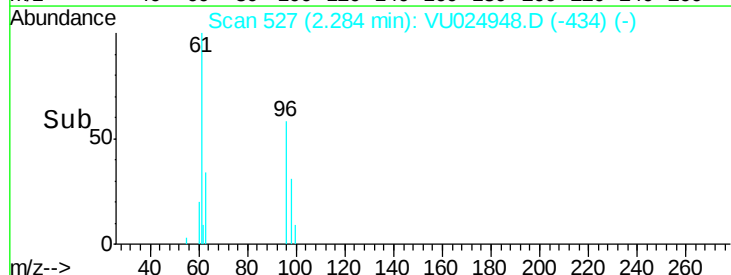
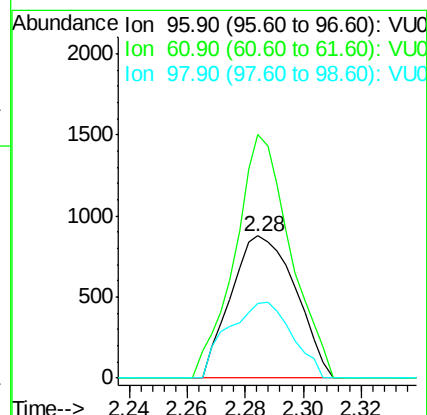
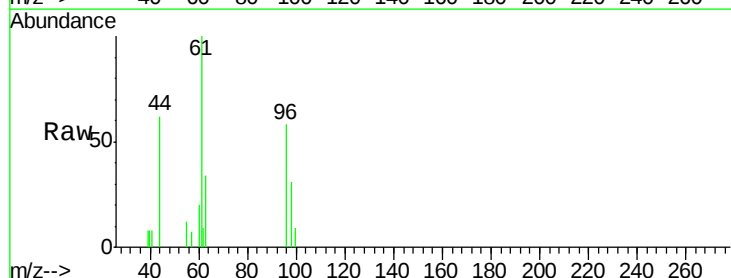
Tgt Ion: 59 Resp: 2029
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12

1,1-Dichloroethene
Concen: 0.583 ug/l
RT: 2.28 min Scan# 527
Delta R.T. -0.00 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

Tgt Ion: 96 Resp: 1359
Ion Ratio Lower Upper
96 100
61 171.1 141.7 212.5
98 52.6 51.6 77.4

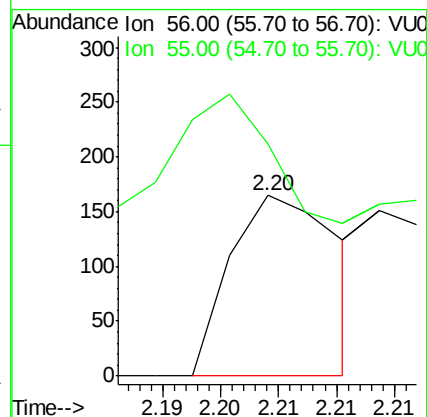
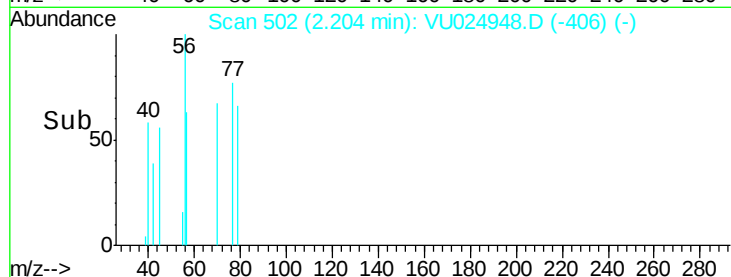
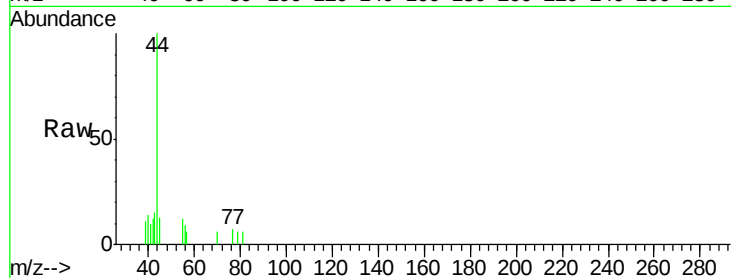




#13
Acrolein
Concen: 0.248 ug/l
RT: 2.20 min Scan# 502
Delta R.T. 0.01 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

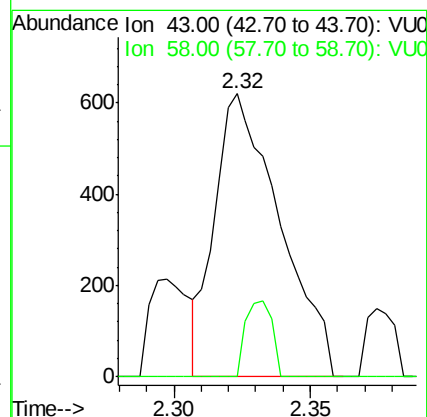
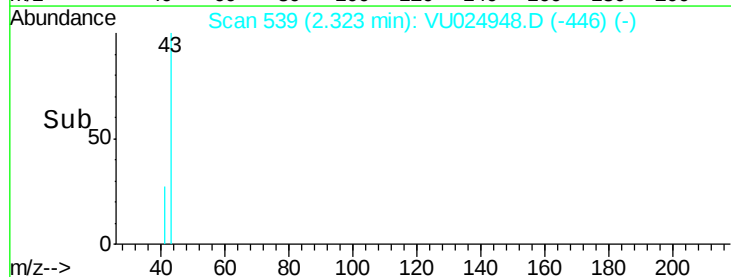
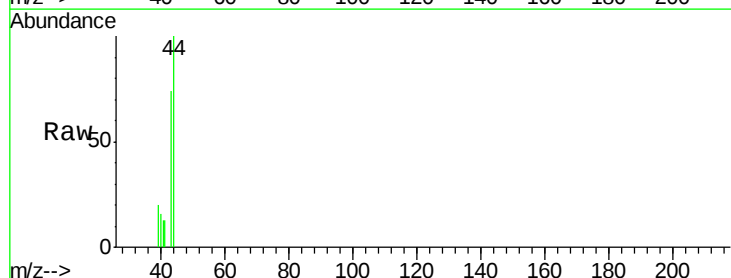
Instrument :
MSVOA_U
ClientSampleId :
WP021SB471-31-33-180619ME

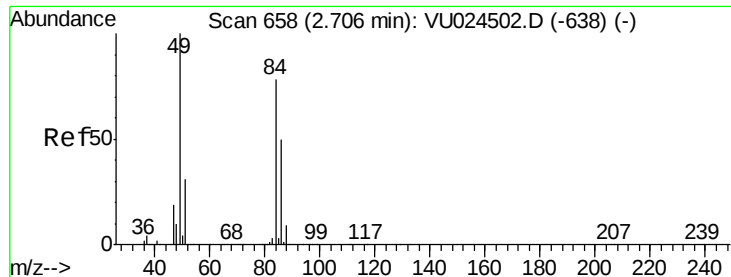
Tgt Ion: 56 Resp: 106
Ion Ratio Lower Upper
56 100
55 64.2 58.4 87.6



#16
Acetone
Concen: 0.574 ug/l
RT: 2.32 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

Tgt Ion: 43 Resp: 1030
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#





#20

Methylene Chloride

Concen: 1.222 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

WP021SB471-31-33-180619ME

Tgt Ion: 84 Resp: 3441

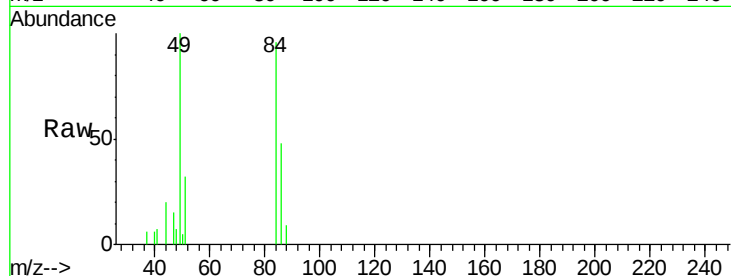
Ion Ratio Lower Upper

84 100

49 103.8 103.8 155.8#

51 33.2 32.0 48.0

86 49.6 51.6 77.4#

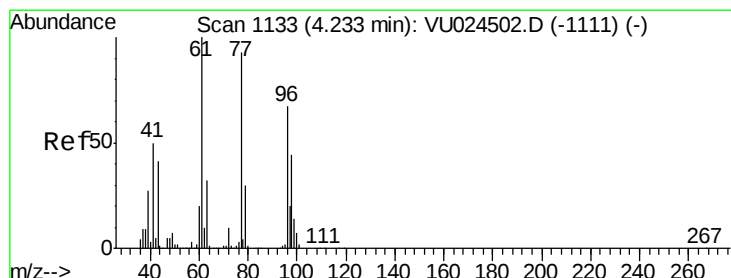
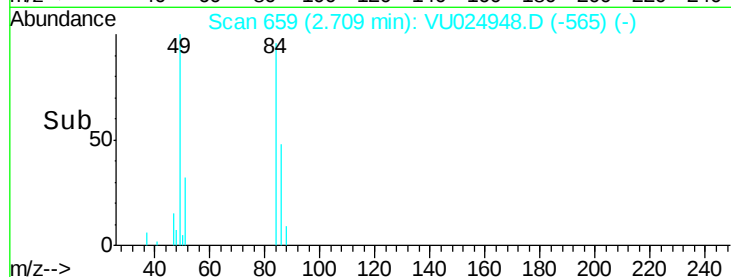
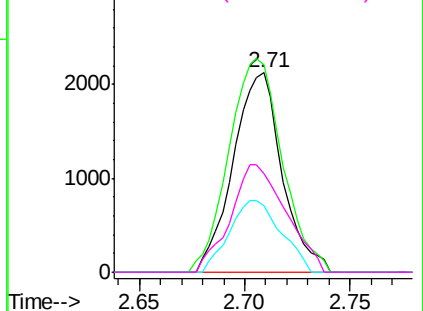


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#27

cis-1,2-Dichloroethene

Concen: 2.211 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

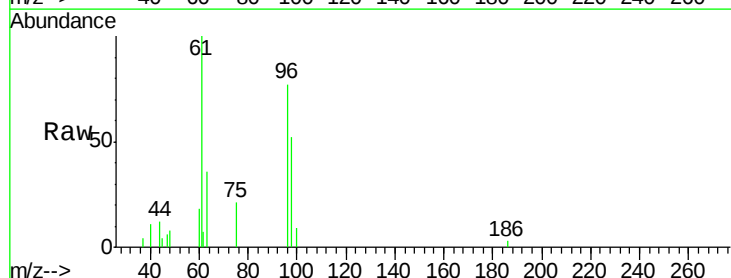
Tgt Ion: 96 Resp: 6525

Ion Ratio Lower Upper

96 100

61 141.0 0.0 306.6

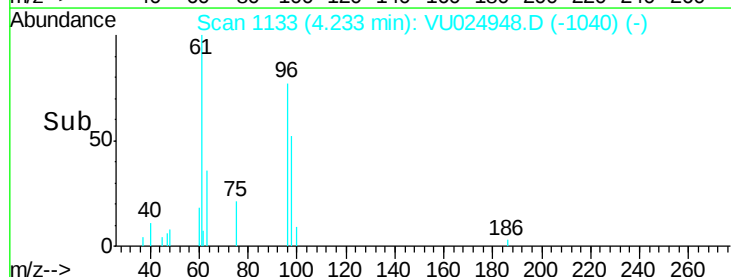
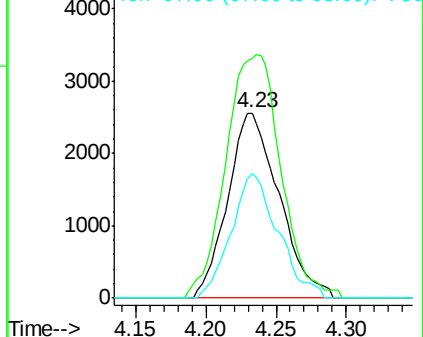
98 61.2 0.0 128.8

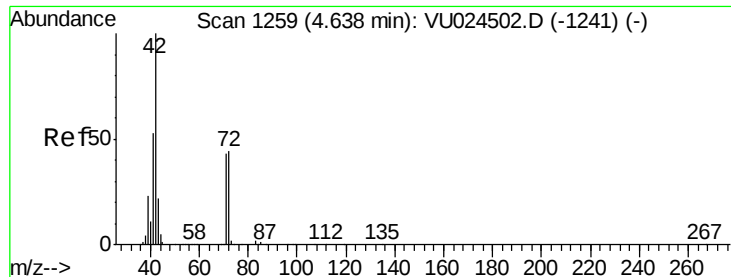


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

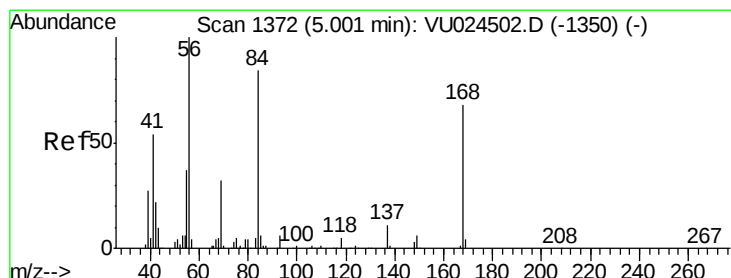
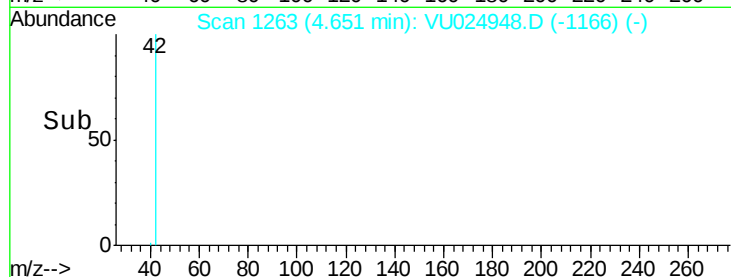
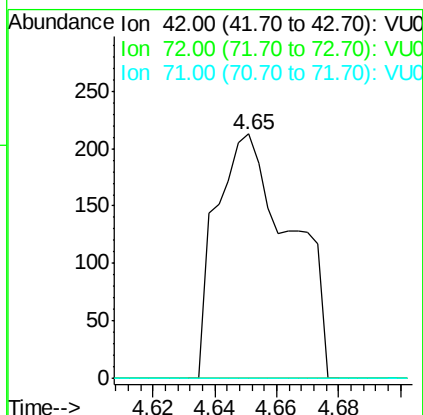
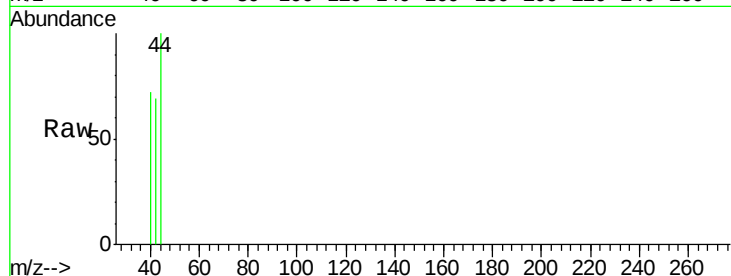




#29
Tetrahydrofuran
Concen: 0.238 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

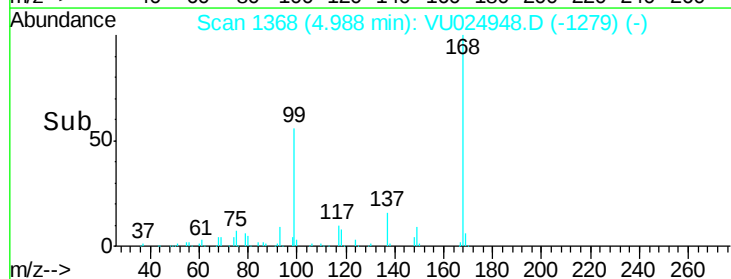
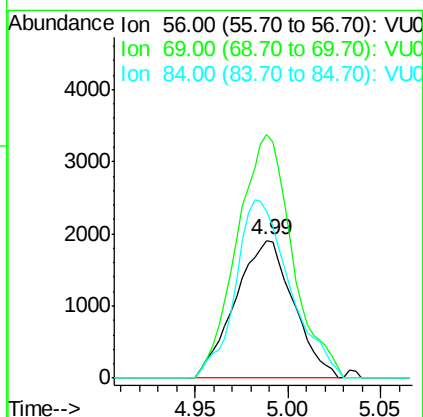
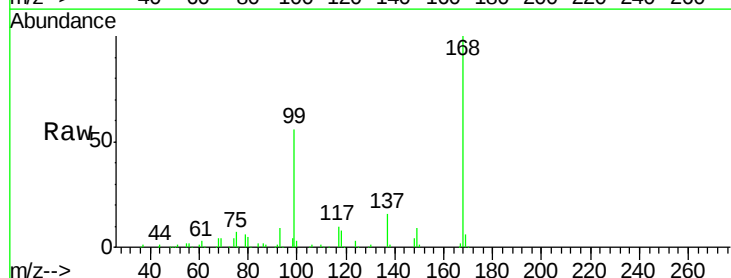
Instrument :
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WP021SB471-31-33-180619ME

Tgt Ion: 42 Resp: 356
Ion Ratio Lower Upper
42 100
72 0.0 34.5 51.7#
71 0.0 32.2 48.4#



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

Tgt Ion: 56 Resp: 4155
Ion Ratio Lower Upper
56 100
69 176.6 24.8 37.2#
84 121.5 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: 46.093 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

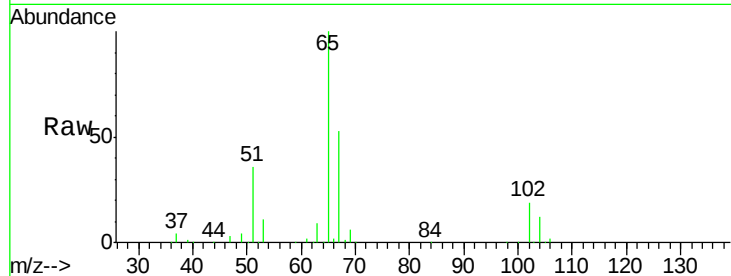
WP021SB471-31-33-180619ME

Tgt Ion: 65 Resp: 154006

Ion Ratio Lower Upper

65 100

67 52.1 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU024948.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU024948.D (-1376) (-)

5.31

80000

60000

40000

20000

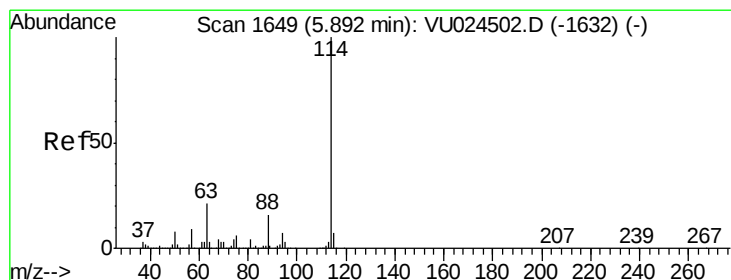
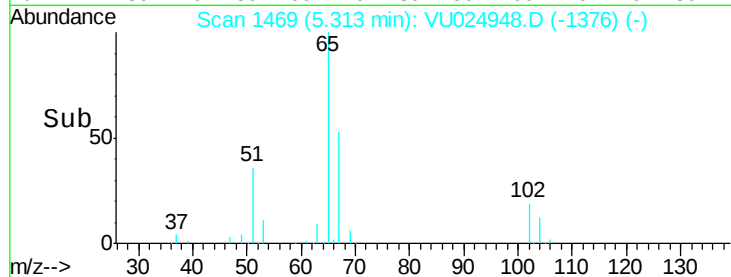
0

Time-->

5.20

5.30

5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

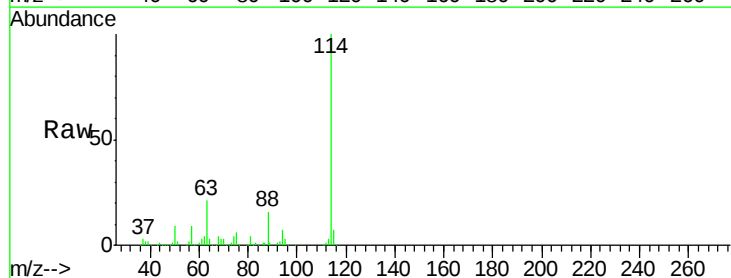
Tgt Ion: 114 Resp: 308929

Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.4

88 16.4 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VU024948.D (-1556) (-)

Ion 63.00 (62.70 to 63.70): VU024948.D (-1556) (-)

Ion 87.90 (87.60 to 88.60): VU024948.D (-1556) (-)

5.89

200000

150000

100000

50000

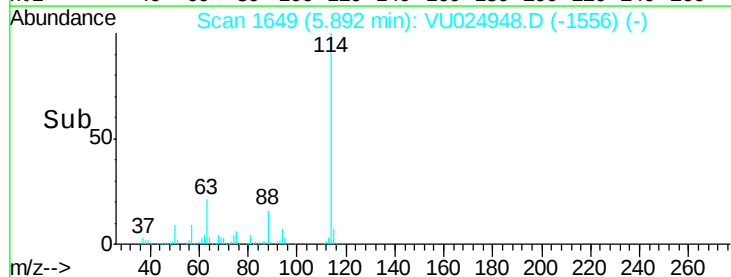
0

Time-->

5.80

5.90

6.00

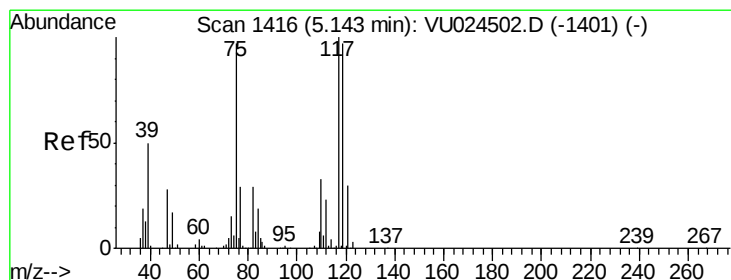
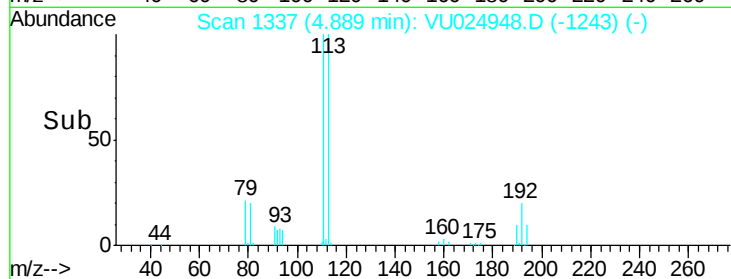
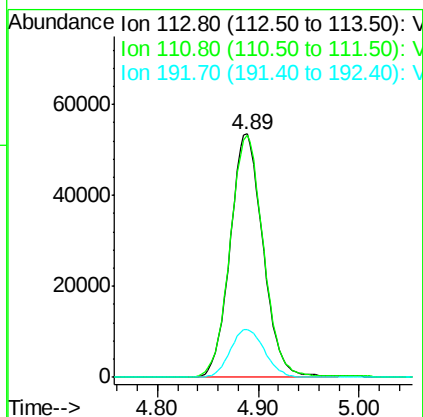
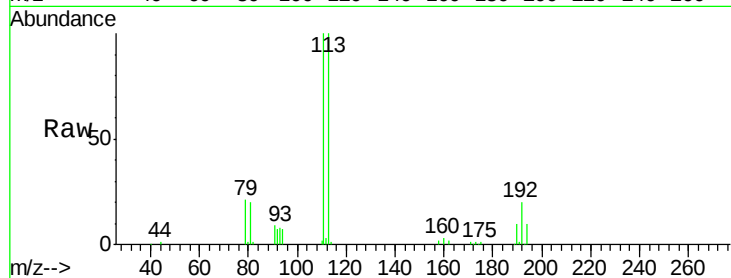




#35
 Dibromofluoromethane
 Concen: 47.226 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024948.D
 Acq: 27 Jun 2018 02:46

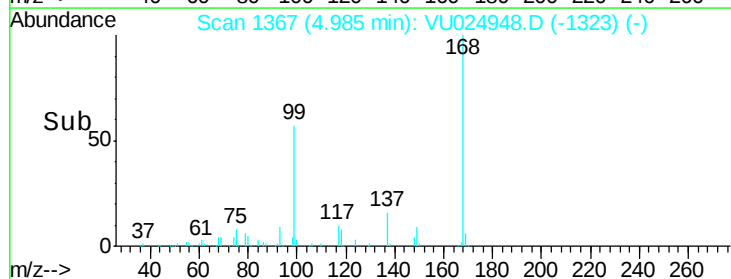
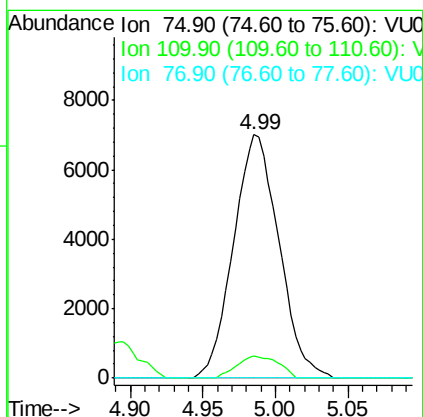
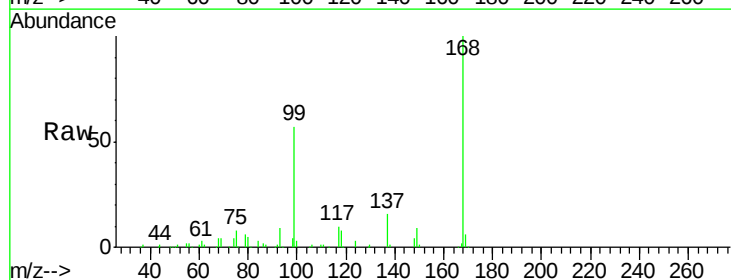
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB471-31-33-180619ME

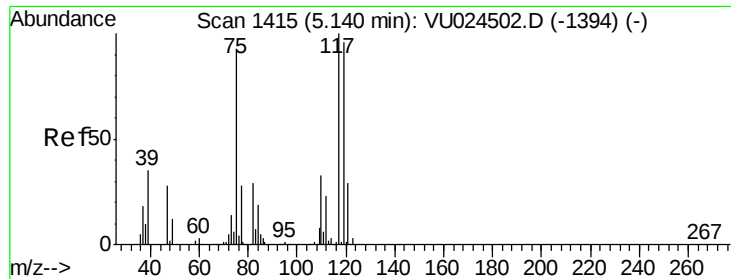
Tgt Ion:113 Resp: 121081
 Ion Ratio Lower Upper
 113 100
 111 100.6 82.2 123.4
 192 20.6 16.2 24.4



#36
 1,1-Dichloropropene
 Concen: 4.210 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024948.D
 Acq: 27 Jun 2018 02:46

Tgt Ion: 75 Resp: 15283
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.0 50.9#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 4.955 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

WP021SB471-31-33-180619ME

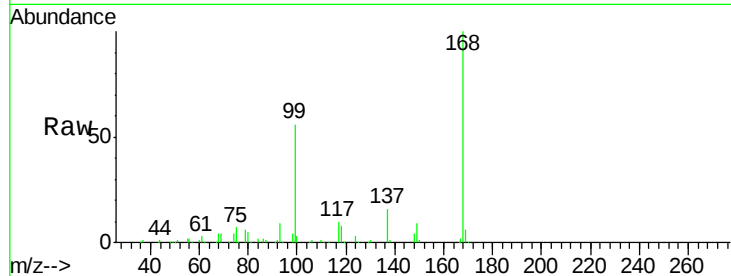
Tgt Ion:117 Resp: 19781

Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

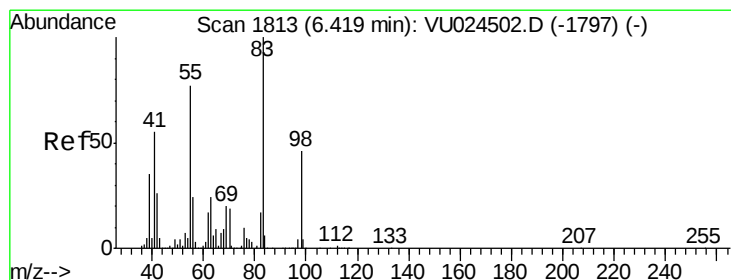
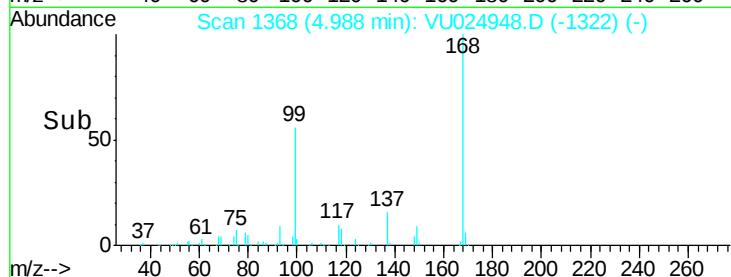
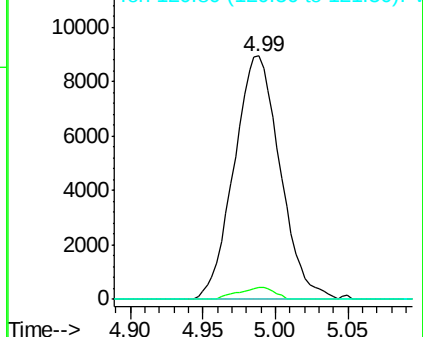
121 0.0 23.7 35.5#



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



#39

Methylcyclohexane

Concen: 0.618 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.23 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

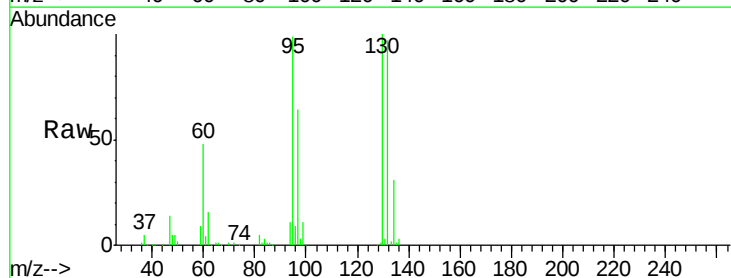
Tgt Ion: 83 Resp: 2801

Ion Ratio Lower Upper

83 100

55 0.0 65.8 98.6#

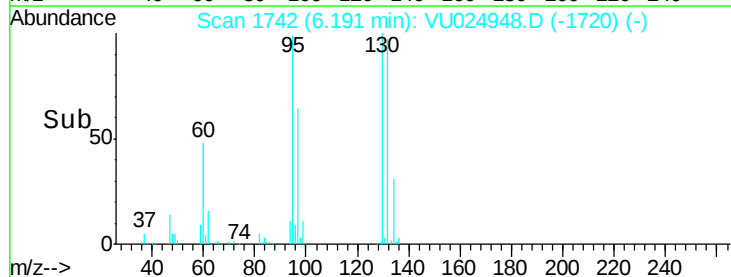
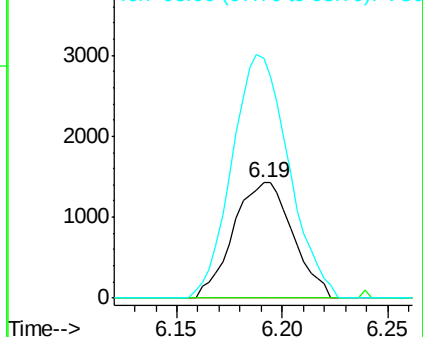
98 207.5 36.7 55.1#

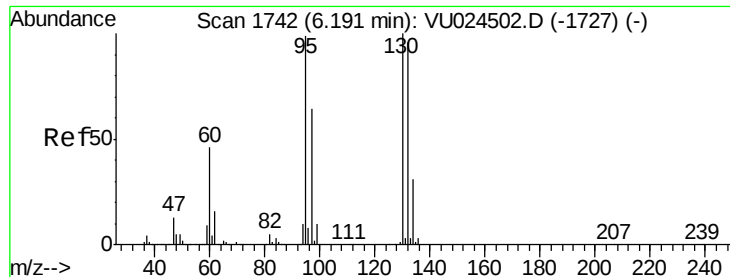


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 77.267 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

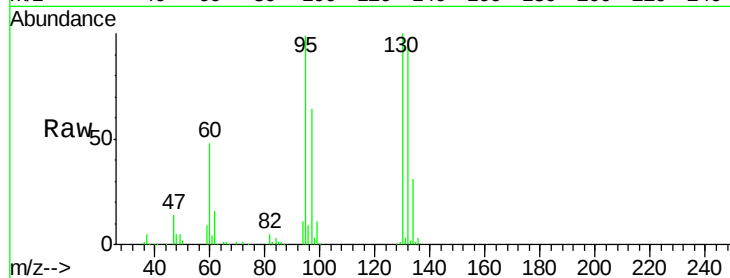
WP021SB471-31-33-180619ME

Tgt Ion:130 Resp: 227464

Ion Ratio Lower Upper

130 100

95 99.1 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024948.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024948.D (-1649) (-)

6.19

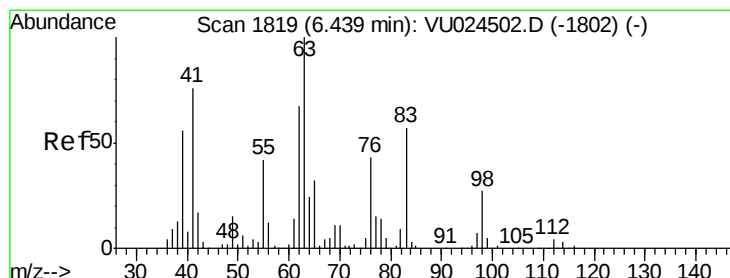
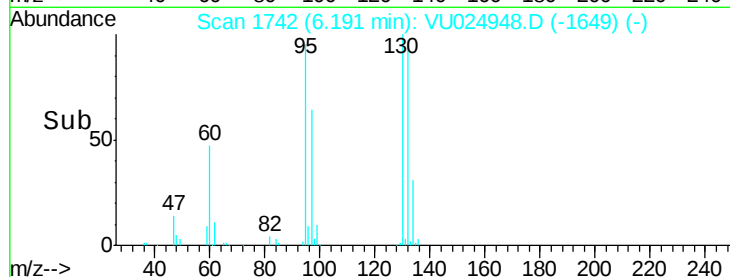
100000

50000

0

Time-->

6.10 6.20 6.30



#45

1,2-Dichloropropane

Concen: 0.322 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.25 min

Lab File: VU024948.D

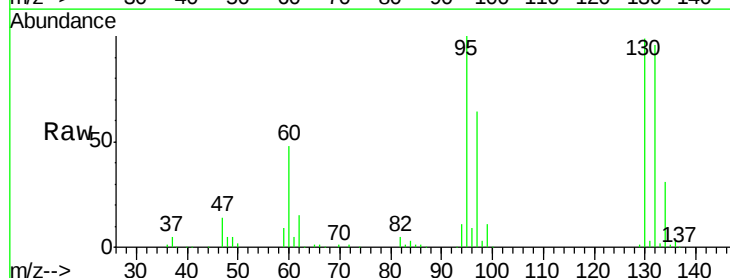
Acq: 27 Jun 2018 02:46

Tgt Ion: 63 Resp: 888

Ion Ratio Lower Upper

63 100

65 302.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VU024948.D (-1726) (-)

Ion 64.90 (64.60 to 65.60): VU024948.D (-1726) (-)

2000

1500

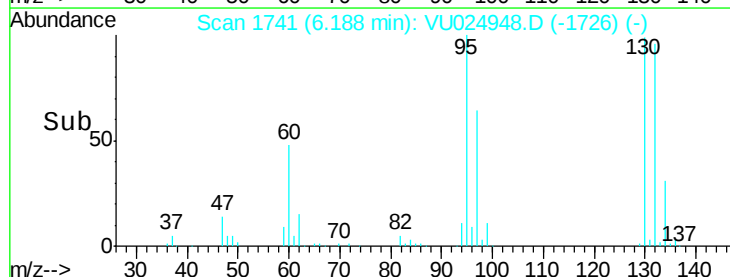
1000

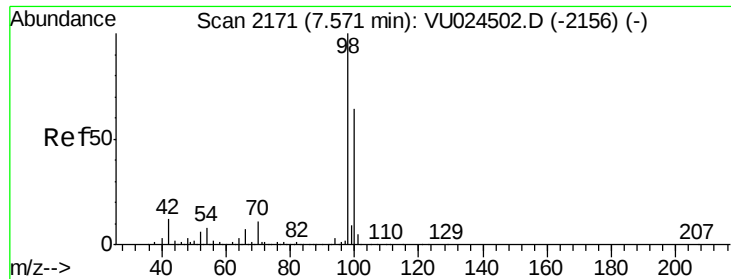
500

0

Time-->

6.15 6.20





#50

Toluene-d8

Concen: 48.516 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

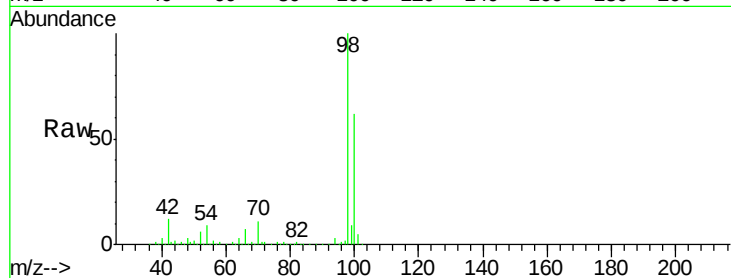
WP021SB471-31-33-180619ME

Tgt Ion: 98 Resp: 453721

Ion Ratio Lower Upper

98 100

100 62.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)

Ion 100.00 (99.70 to 100.70): VU024502.D (-2156) (-)

7.57

250000

200000

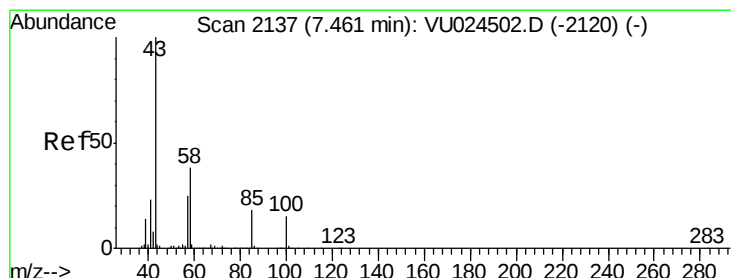
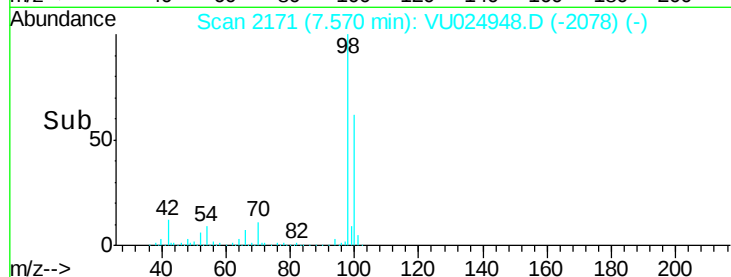
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.556 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU024948.D

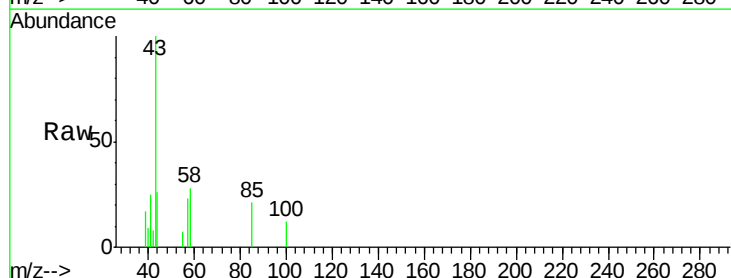
Acq: 27 Jun 2018 02:46

Tgt Ion: 43 Resp: 2391

Ion Ratio Lower Upper

43 100

58 30.4 30.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-2120) (-)

Ion 58.00 (57.70 to 58.70): VU024502.D (-2120) (-)

7.47

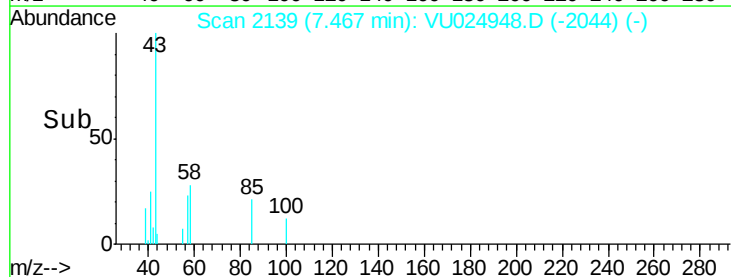
1500

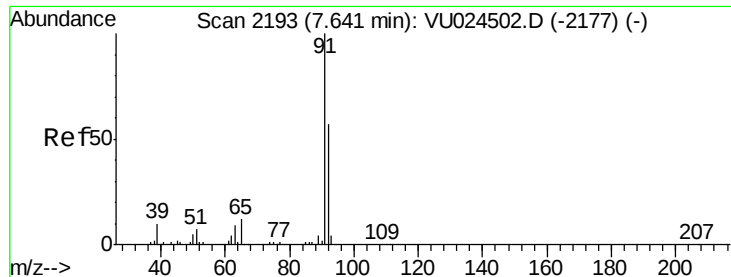
1000

500

0

Time-->





#52

Toluene

Concen: 1.368 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

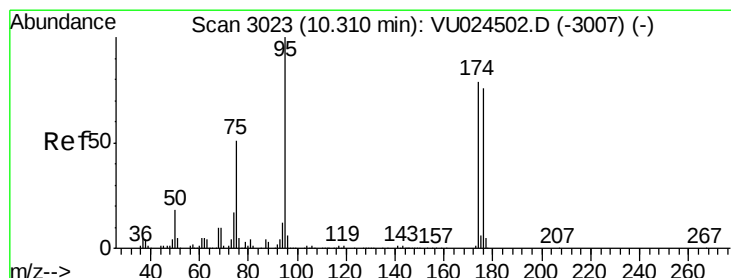
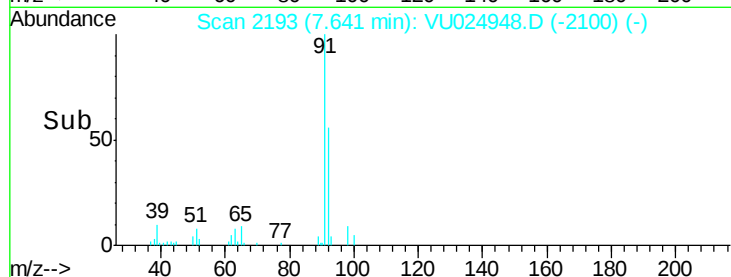
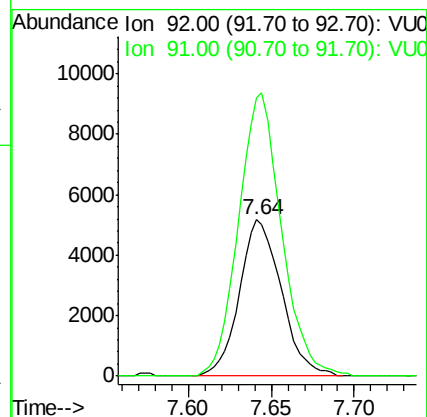
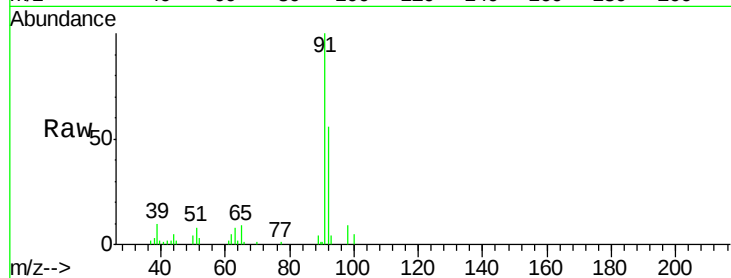
WP021SB471-31-33-180619ME

Tgt Ion: 92 Resp: 9105

Ion Ratio Lower Upper

92 100

91 184.7 140.5 210.7



#62

4-Bromofluorobenzene

Concen: 45.422 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

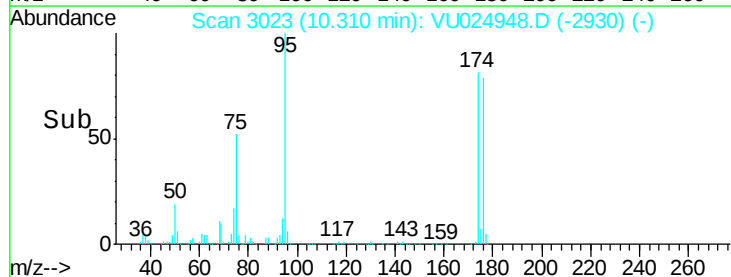
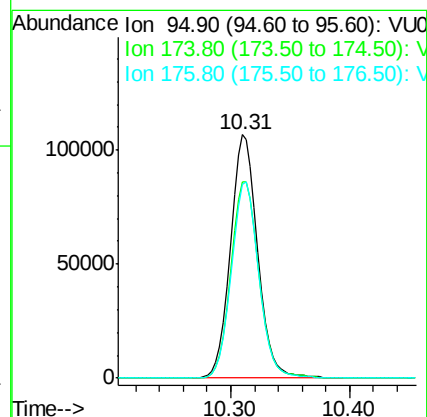
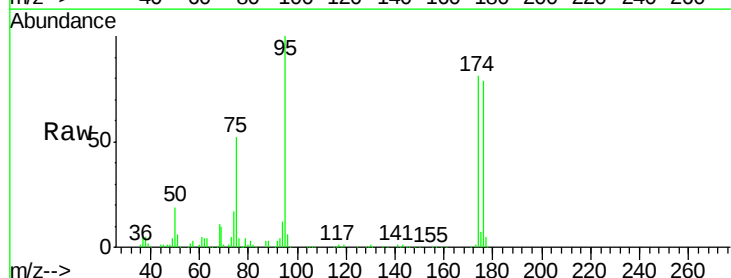
Tgt Ion: 95 Resp: 168656

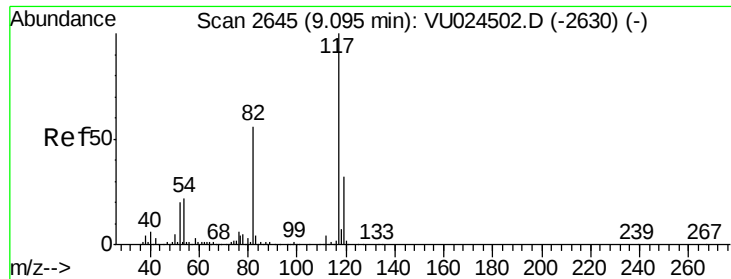
Ion Ratio Lower Upper

95 100

174 83.5 0.0 165.8

176 81.5 0.0 159.4

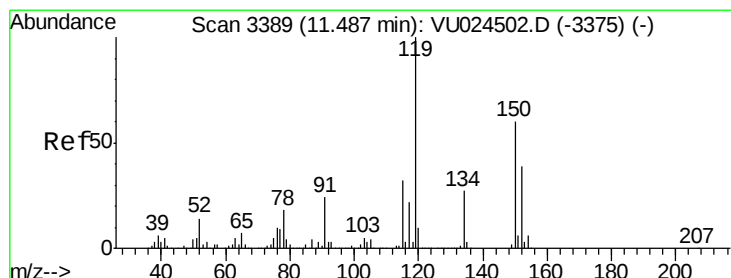
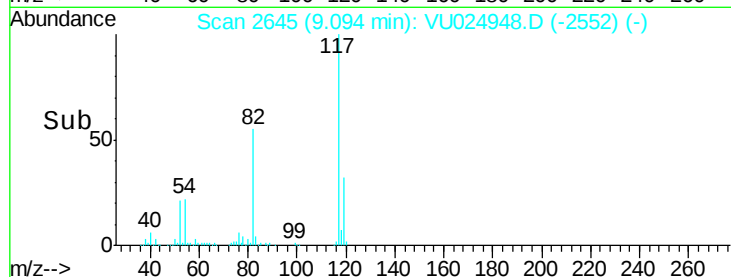
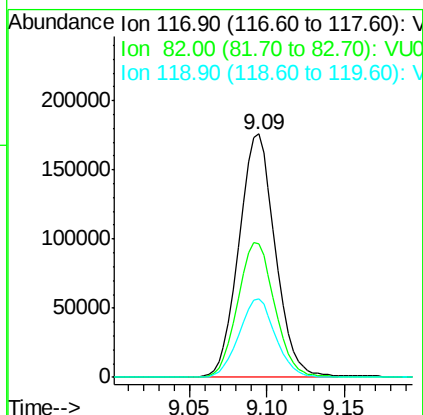
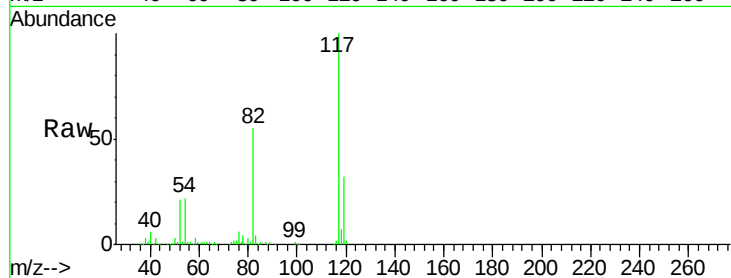




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

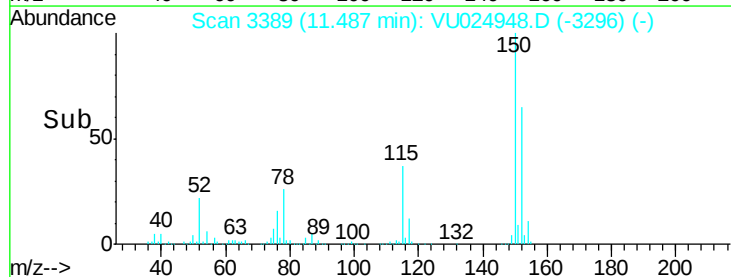
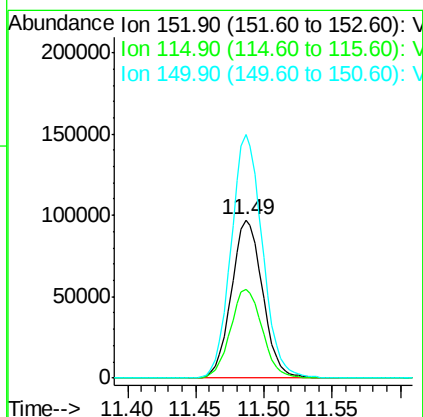
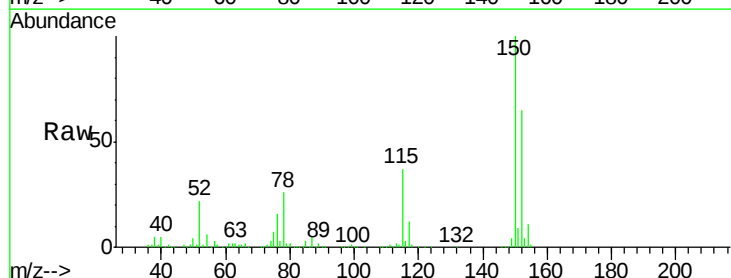
Instrument :
MSVOA_U
ClientSampleId :
WP021SB471-31-33-180619ME

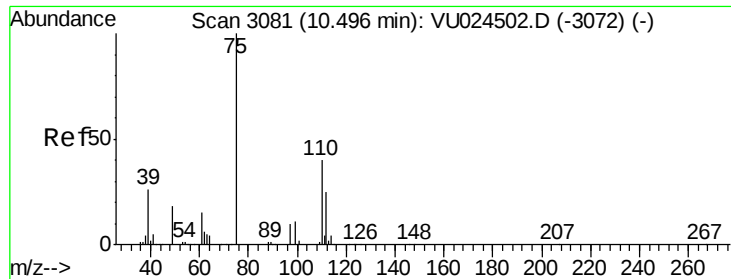
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.3	66.5
119	32.3	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024948.D
Acq: 27 Jun 2018 02:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	43.0	129.0
150	154.3	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 25.761 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

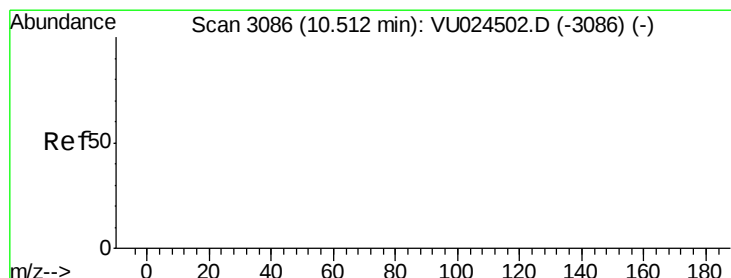
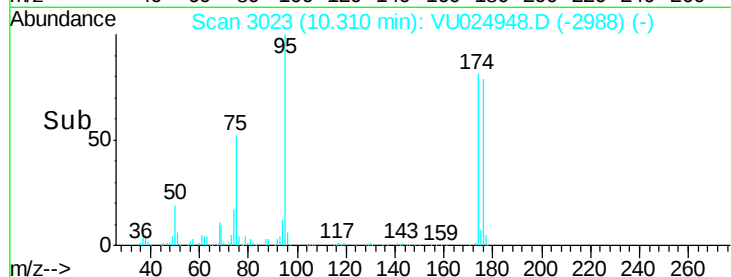
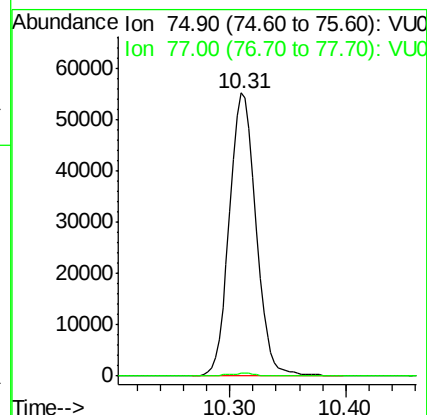
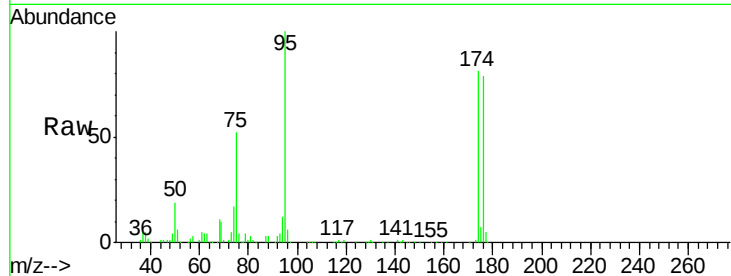
WP021SB471-31-33-180619ME

Tgt Ion: 75 Resp: 87601

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.622 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024948.D

Acq: 27 Jun 2018 02:46

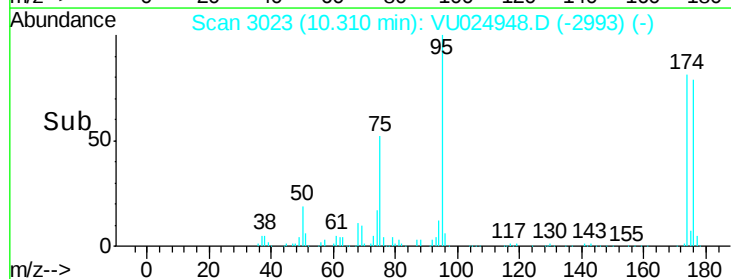
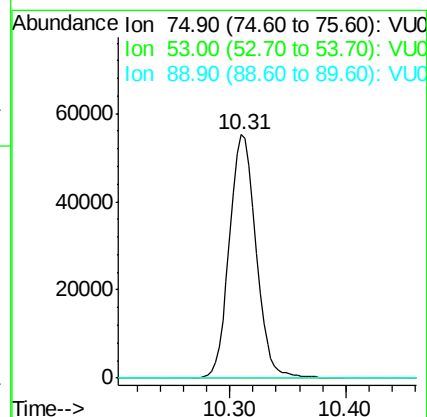
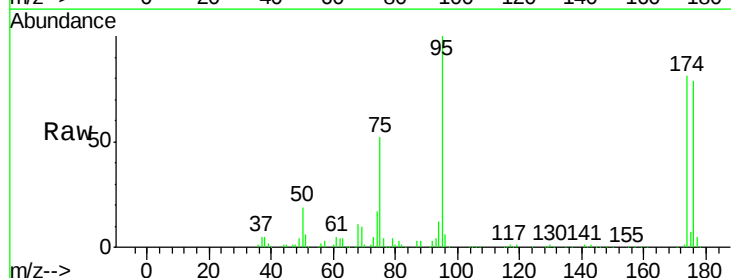
Tgt Ion: 75 Resp: 87601

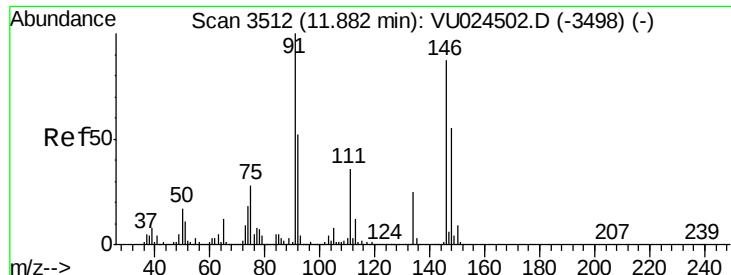
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#91

1,2-Dichlorobenzene

Concen: 0.573 ug/l

RT: 11.89 min Scan# 3514

Delta R.T. 0.01 min

Lab File: VU024948.D

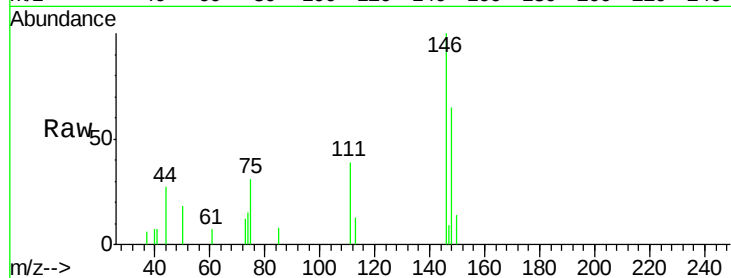
Acq: 27 Jun 2018 02:46

Instrument :

MSVOA_U

ClientSampleId :

WP021SB471-31-33-180619ME



Tgt Ion:	146	Resp:	3185
Ion	Ratio	Lower	Upper
146	100		
111	37.2	20.5	61.6
148	57.5	31.9	95.7

