

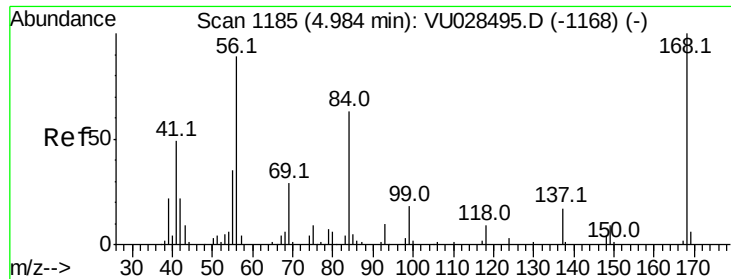
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121318\
 Data File : VU028648.D
 Acq On : 12 Dec 2018 13:33
 Operator : MD/SY
 Sample : J6351-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS027-181210

Quant Time: Dec 13 00:47:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	103289	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	188013	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	164726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	66509	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	80761	51.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.48%	
35) Dibromofluoromethane	4.88	113	61087	51.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.26%	
50) Toluene-d8	7.57	98	239265	51.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	10.30	95	79324	45.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.68%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	1439	0.565	ug/l	98
4) Vinyl Chloride	1.40	62	1577	0.859	ug/l	94
11) Tert butyl alcohol	2.83	59	868	2.472	ug/l #	73
16) Acetone	2.32	43	48231	46.891	ug/l	95
18) Methyl Acetate	2.62	43	3213	1.205	ug/l	93
25) 2-Butanone	4.27	43	38738	27.559	ug/l	96
27) cis-1,2-Dichloroethene	4.22	96	59435	40.555	ug/l	88
29) Tetrahydrofuran	4.64	42	19960	22.110	ug/l	98
31) Cyclohexane	4.98	56	2293	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8768	4.262	ug/l #	50
37) Ethyl Acetate	4.27	43	38738	14.565	ug/l #	70
38) Carbon Tetrachloride	4.98	117	10045	6.058	ug/l #	15
41) Methacrylonitrile	4.64	41	10799	7.414	ug/l #	45
44) Trichloroethene	6.19	130	7121	5.285	ug/l	83
60) Dibromochloromethane	8.23	129	8071	5.848	ug/l #	10
64) Tetrachloroethene	8.22	164	8424	7.667	ug/l	95
65) Chlorobenzene	9.12	112	6591	1.878	ug/l	100
76) 1,2,3-Trichloropropane	10.30	75	40520	23.859	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	40520	58.570	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

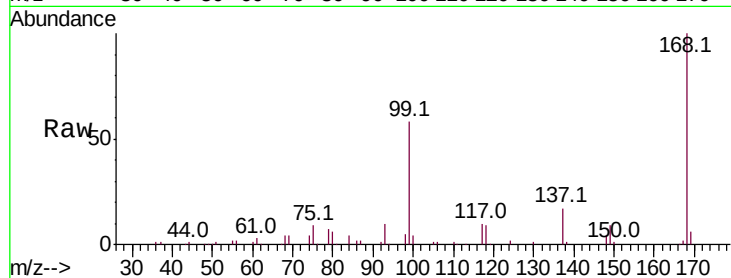
KY038PS027-181210

Tot Ion:168 Resp: 103289

Ion Ratio Lower Upper

168 100

99 58.5 46.6 69.8



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

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

4.98

50000

40000

30000

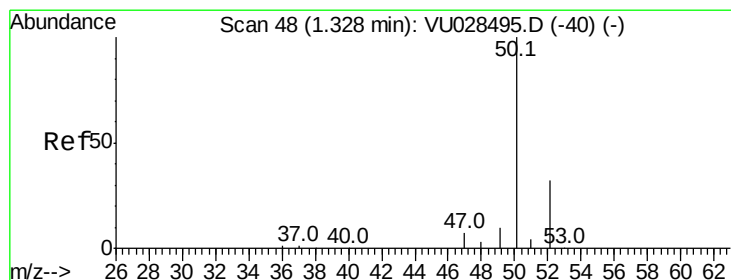
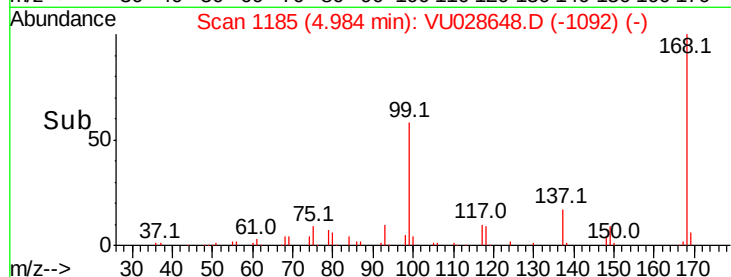
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: 0.565 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028648.D

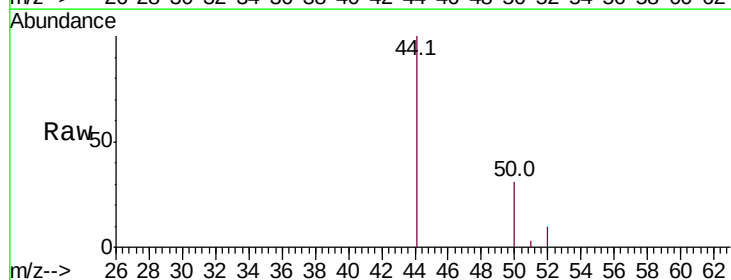
Acq: 12 Dec 2018 13:33

Tgt Ion: 50 Resp: 1439

Ion Ratio Lower Upper

50 100

52 30.7 25.5 38.3



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

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

1.33

1200

1000

800

600

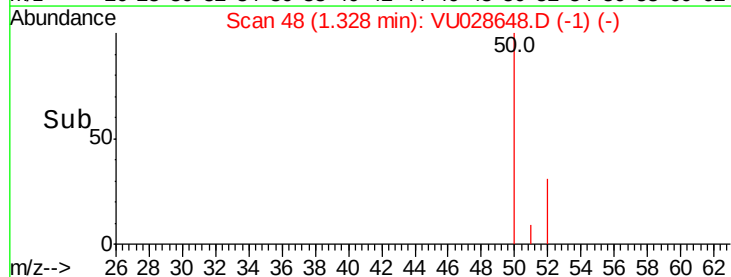
400

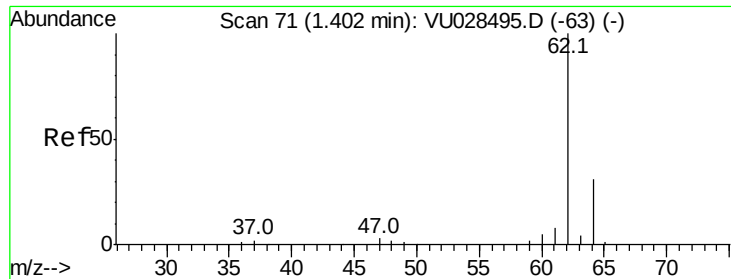
200

0

1.30 1.32 1.34 1.36

Time-->





#4

Vinyl Chloride

Concen: 0.859 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

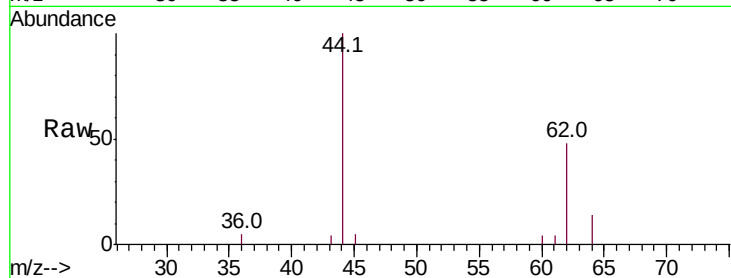
KY038PS027-181210

Tot Ion: 62 Resp: 1577

Ion Ratio Lower Upper

62 100

64 28.2 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.40

1500

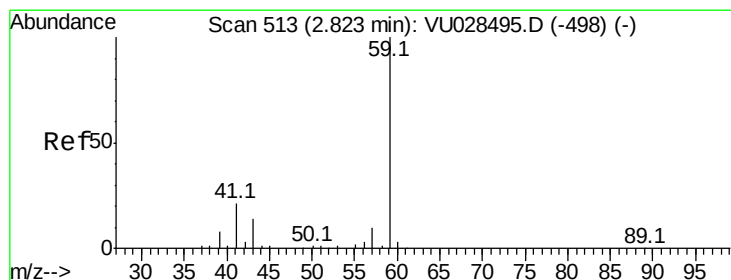
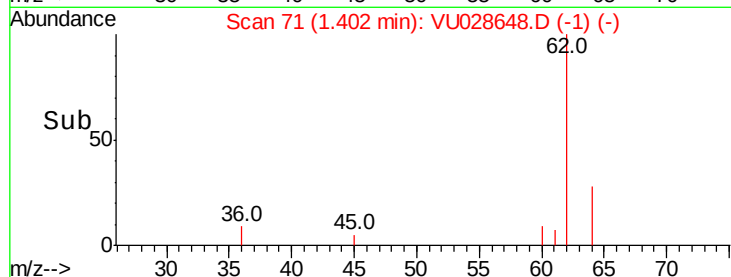
1000

500

0

1.38 1.40 1.42

Time-->



#11

Tert butyl alcohol

Concen: 2.472 ug/l

RT: 2.83 min Scan# 515

Delta R.T. 0.01 min

Lab File: VU028648.D

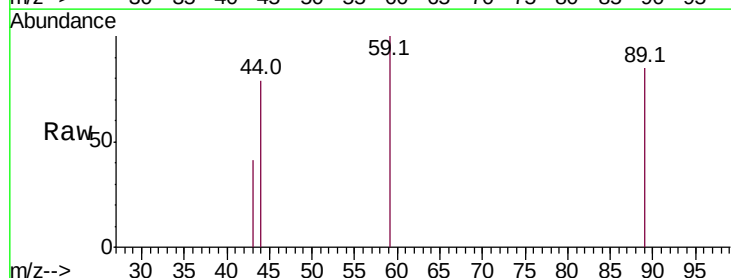
Acq: 12 Dec 2018 13:33

Tgt Ion: 59 Resp: 868

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

400

300

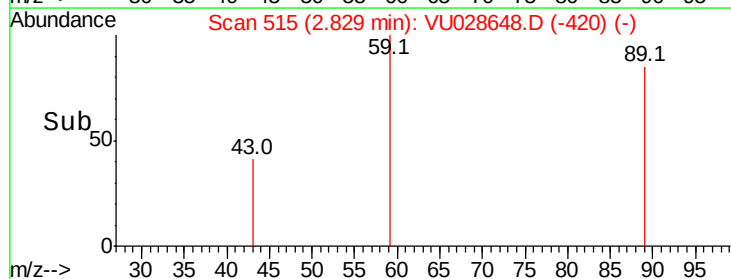
200

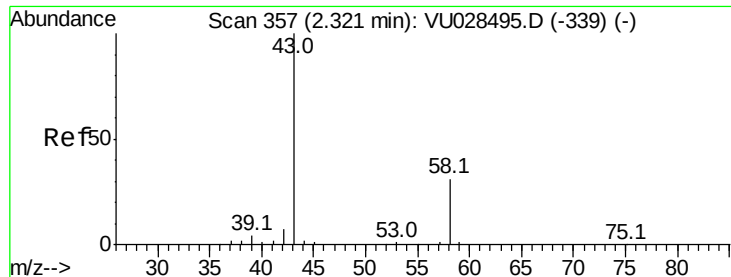
100

0

2.80 2.83 2.85

Time-->





#16

Acetone

Concen: 46.891 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

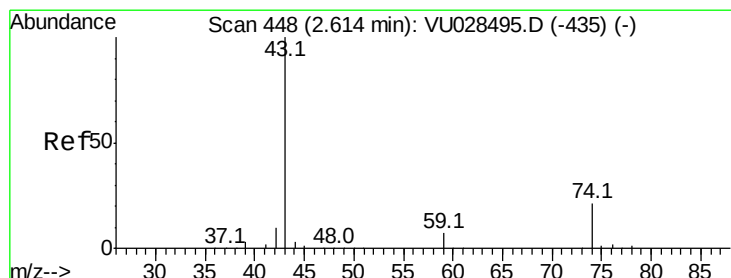
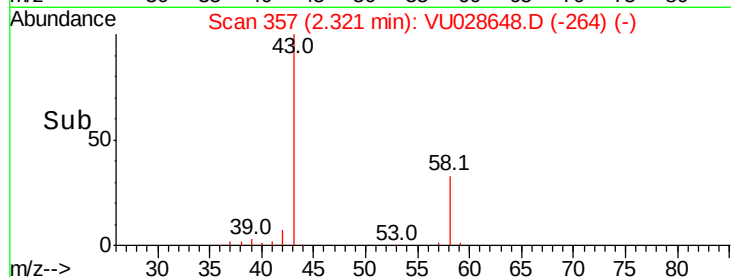
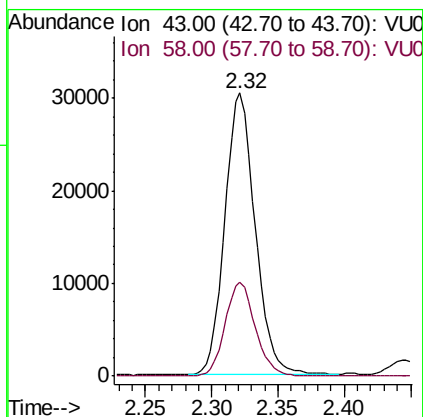
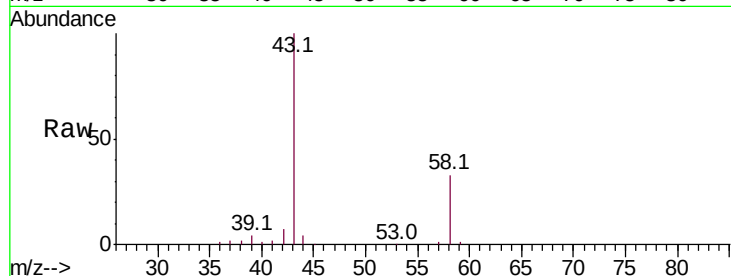
KY038PS027-181210

Tot Ion: 43 Resp: 48231

Ion Ratio Lower Upper

43 100

58 33.5 24.6 37.0



#18

Methyl Acetate

Concen: 1.205 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU028648.D

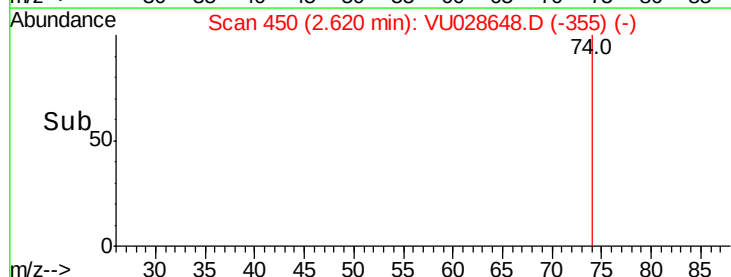
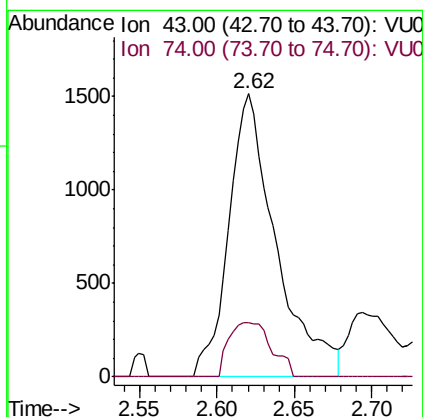
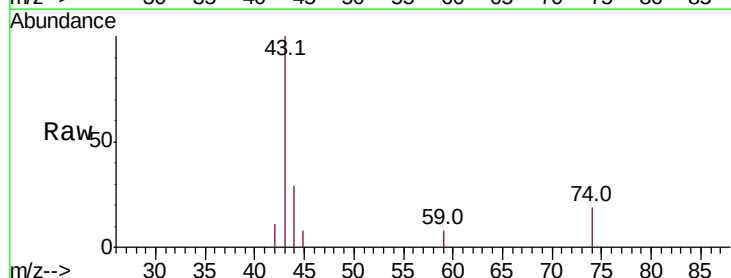
Acq: 12 Dec 2018 13:33

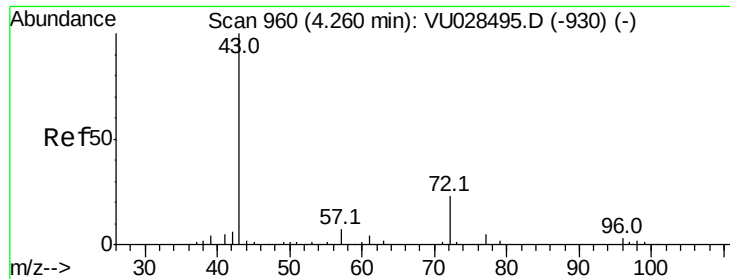
Tgt Ion: 43 Resp: 3213

Ion Ratio Lower Upper

43 100

74 17.3 16.4 24.6





#25

2-Butanone

Concen: 27.559 ug/l

RT: 4.27 min Scan# 962

Delta R.T. 0.01 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

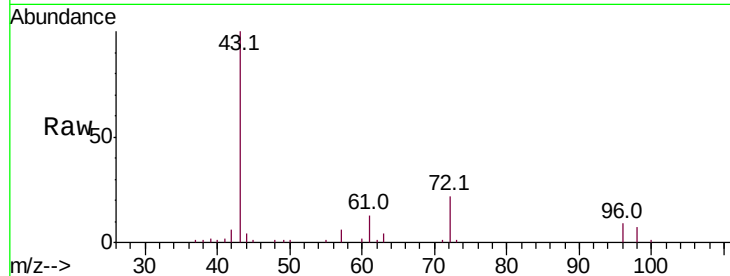
KY038PS027-181210

Tot Ion: 43 Resp: 38738

Ion Ratio Lower Upper

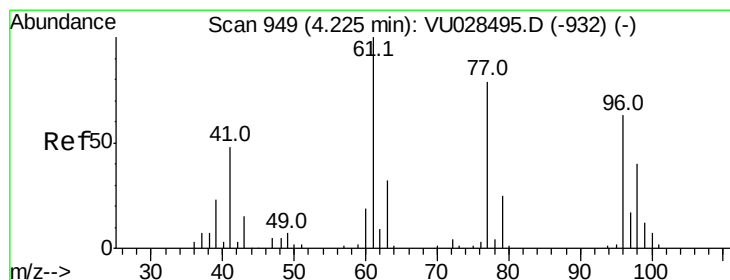
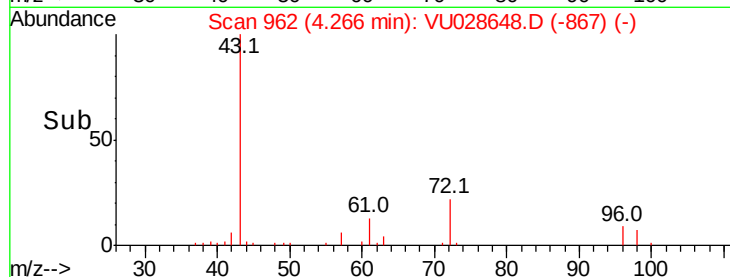
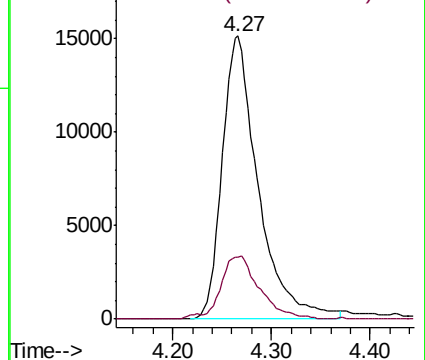
43 100

72 21.3 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#27

cis-1,2-Dichloroethene

Concen: 40.555 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

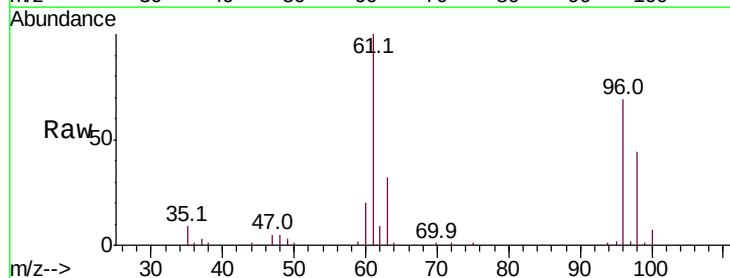
Tgt Ion: 96 Resp: 59435

Ion Ratio Lower Upper

96 100

61 144.5 0.0 332.4

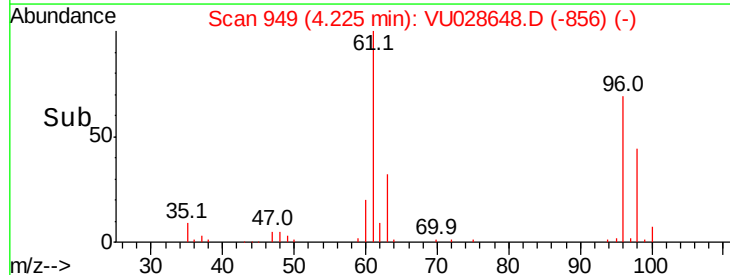
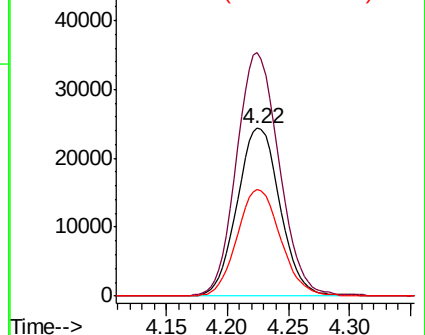
98 64.4 0.0 129.0

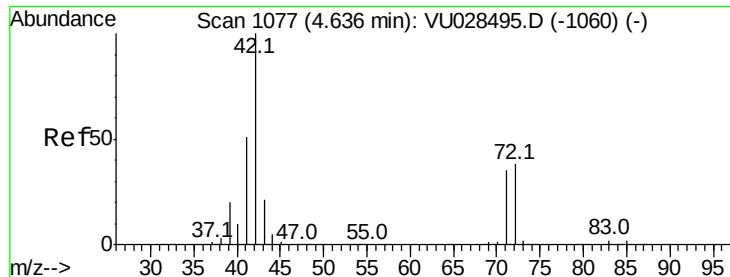


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#29

Tetrahydrofuran

Concen: 22.110 ug/l

RT: 4.64 min Scan# 1079

Delta R.T. 0.01 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

KY038PS027-181210

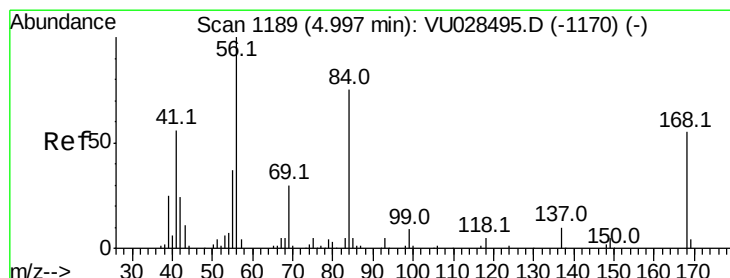
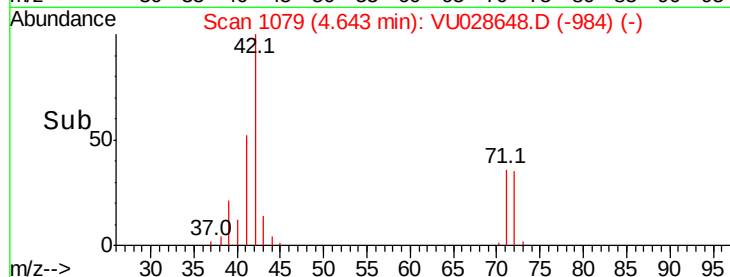
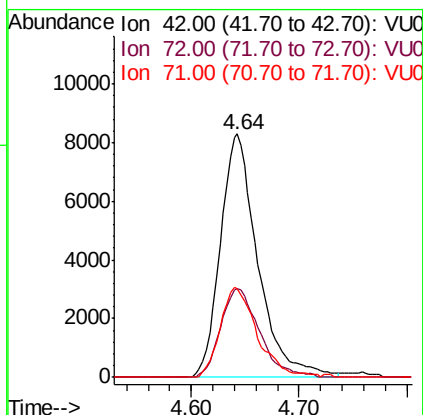
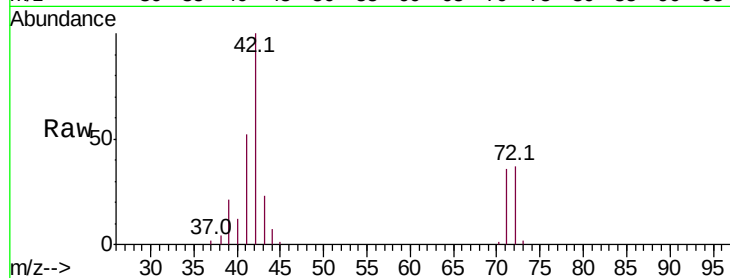
Tot Ion: 42 Resp: 19960

Ion Ratio Lower Upper

42 100

72 38.0 31.4 47.0

71 36.7 28.6 43.0



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

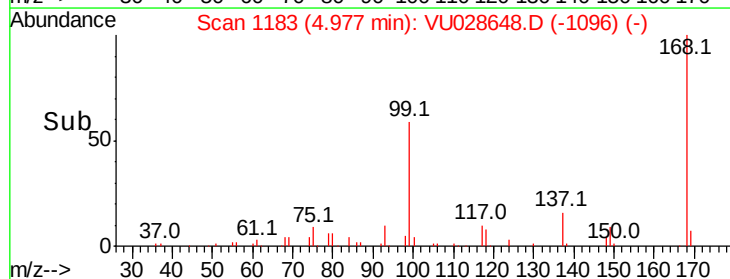
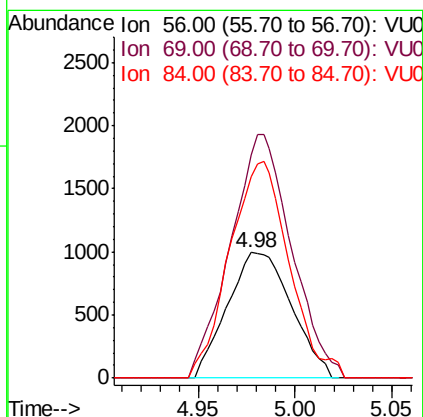
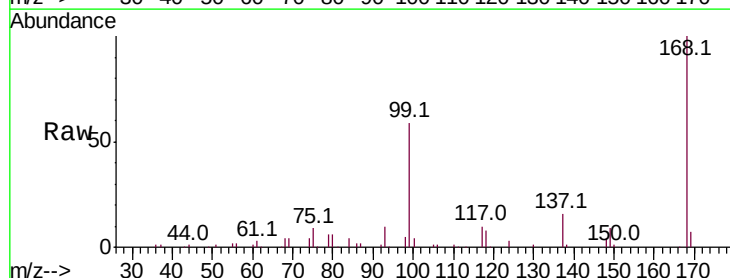
Tgt Ion: 56 Resp: 2293

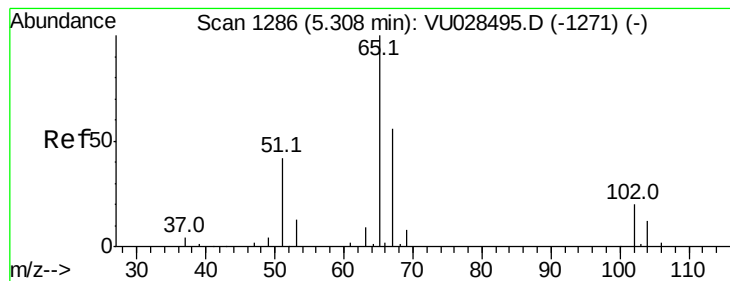
Ion Ratio Lower Upper

56 100

69 177.3 24.0 36.0#

84 160.0 59.7 89.5#





#33

1,2-Dichloroethane-d4

Concen: 51.236 ug/l

RT: 5.31 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

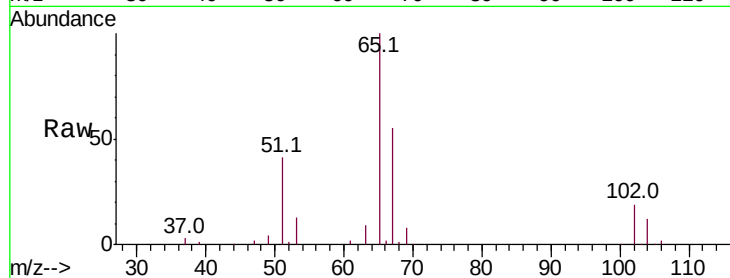
KY038PS027-181210

Tot Ion: 65 Resp: 80761

Ion Ratio Lower Upper

65 100

67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU028495.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU028495.D (-1271) (-)

5.31

40000

30000

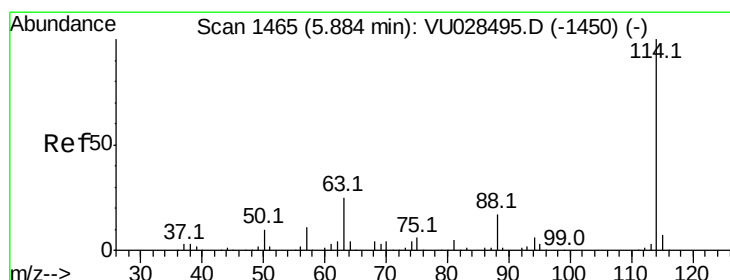
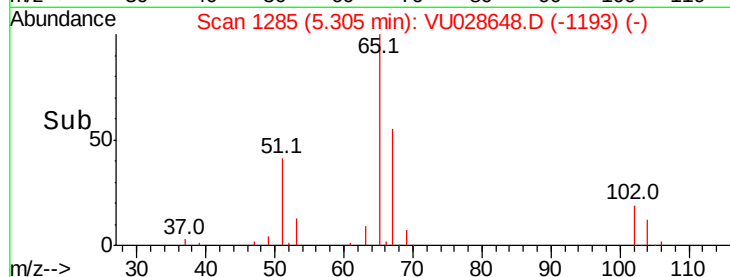
20000

10000

0

5.20 5.25 5.30 5.35 5.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

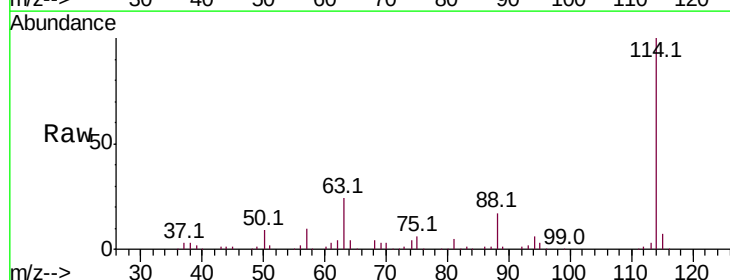
Tgt Ion: 114 Resp: 188013

Ion Ratio Lower Upper

114 100

63 23.5 0.0 49.2

88 16.9 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VU028495.D (-1450) (-)

Ion 63.00 (62.70 to 63.70): VU028495.D (-1450) (-)

Ion 87.90 (87.60 to 88.60): VU028495.D (-1450) (-)

5.88

120000

100000

80000

60000

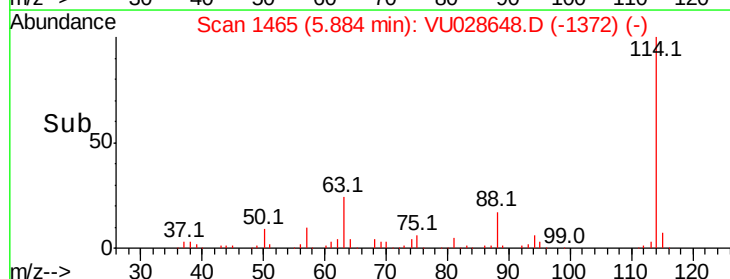
40000

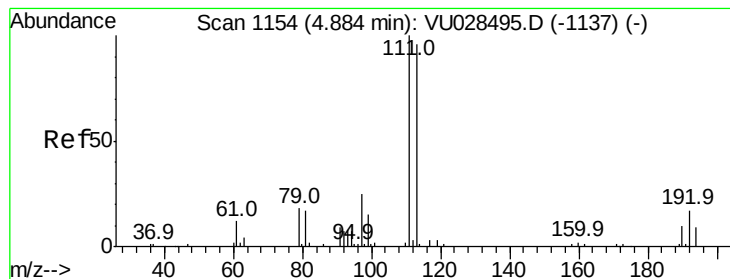
20000

0

5.80 5.90 6.00

Time-->





#35

Dibromofluoromethane

Concen: 51.630 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

KY038PS027-181210

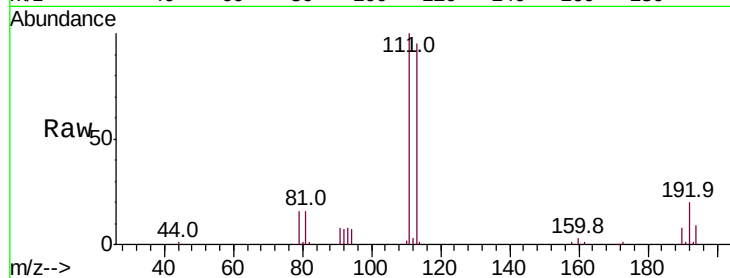
Tot Ion:113 Resp: 61087

Ion Ratio Lower Upper

113 100

111 104.8 83.4 125.0

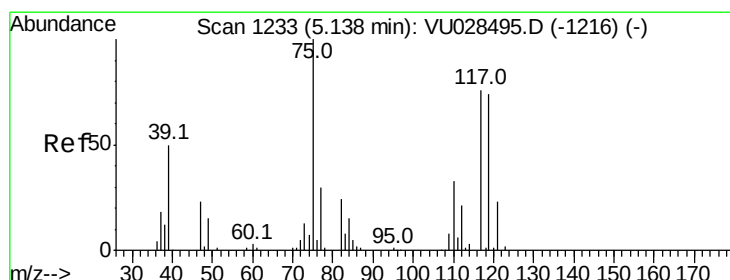
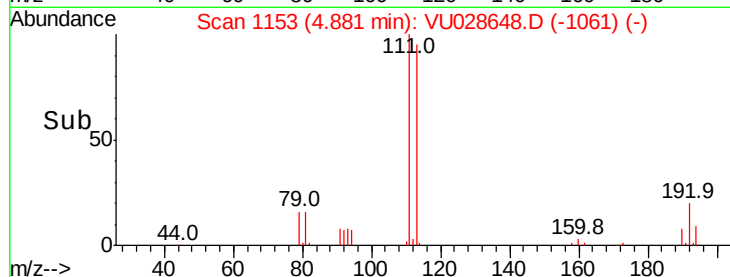
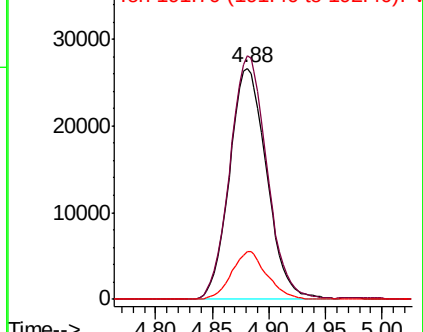
192 19.5 14.8 22.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.262 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

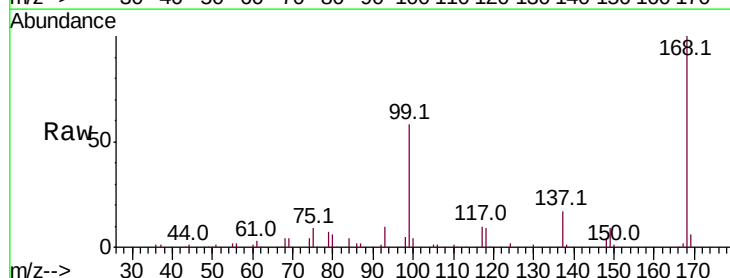
Tgt Ion: 75 Resp: 8768

Ion Ratio Lower Upper

75 100

110 7.2 16.1 48.2#

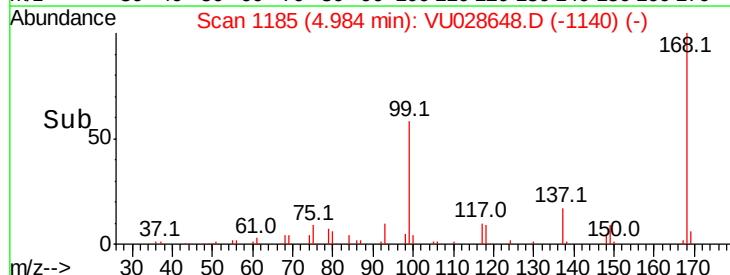
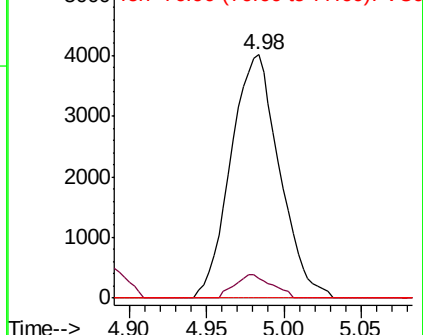
77 0.0 24.5 36.7#

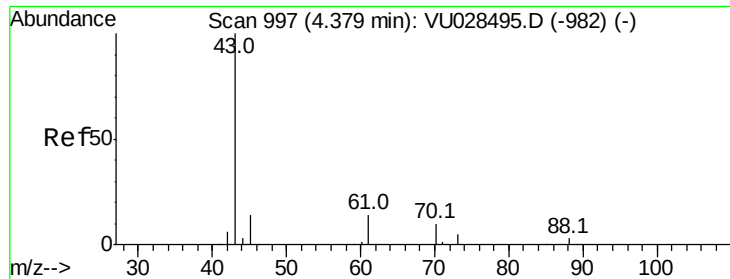


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#37

Ethyl Acetate

Concen: 14.565 ug/l

RT: 4.27 min Scan# 962

Delta R.T. -0.11 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

KY038PS027-181210

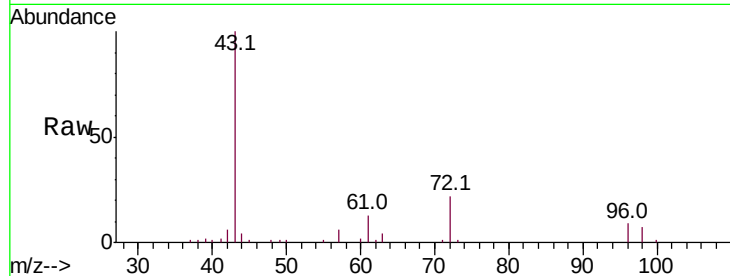
Tot Ion: 43 Resp: 38738

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

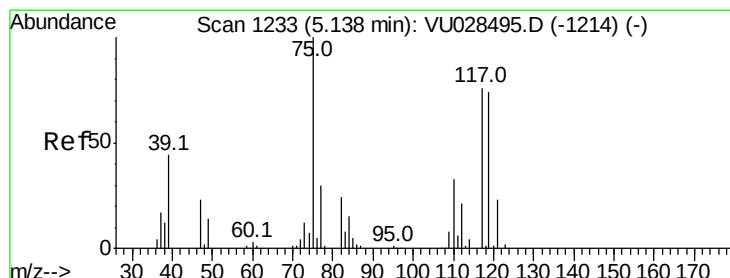
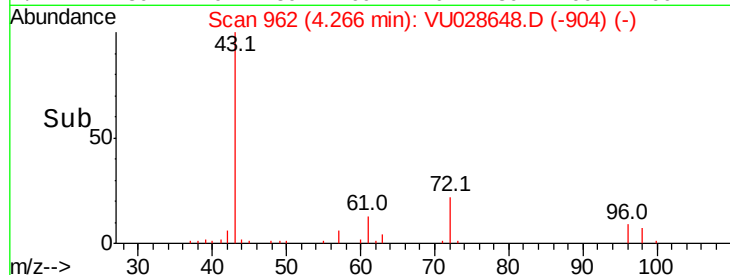
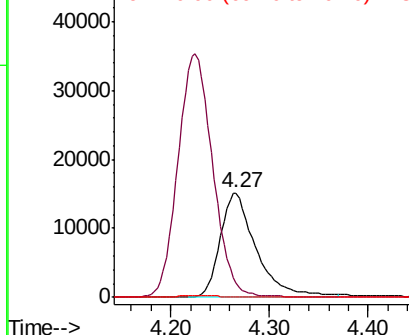
70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VU028648.D (-962) (-)

Ion 60.90 (60.60 to 61.60): VU028648.D (-962) (-)

Ion 70.00 (69.70 to 70.70): VU028648.D (-962) (-)



#38

Carbon Tetrachloride

Concen: 6.058 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

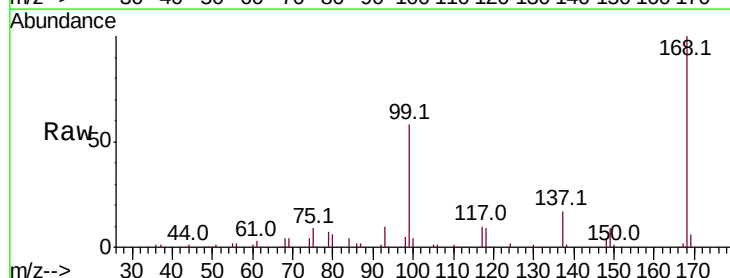
Tgt Ion: 117 Resp: 10045

Ion Ratio Lower Upper

117 100

119 4.6 77.6 116.4#

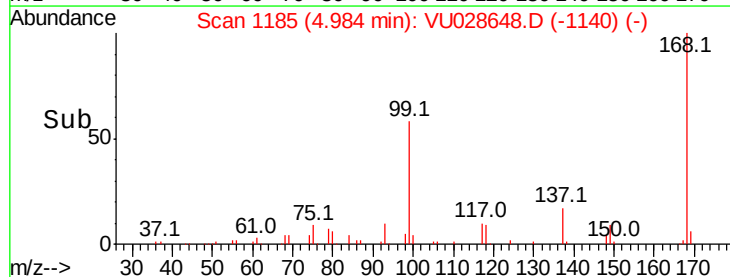
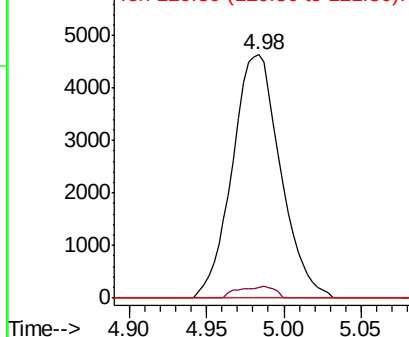
121 0.0 24.6 36.8#

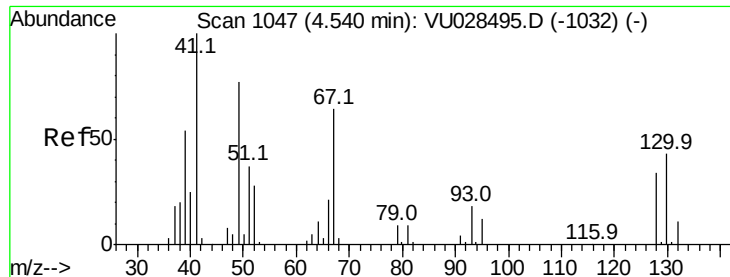


Abundance Ion 116.80 (116.50 to 117.50): VU028648.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU028648.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU028648.D (-1140) (-)





#41

Methacrylonitrile

Concen: 7.414 ug/l

RT: 4.64 min Scan# 1078

Delta R.T. 0.10 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

KY038PS027-181210

Tot Ion: 41 Resp: 10799

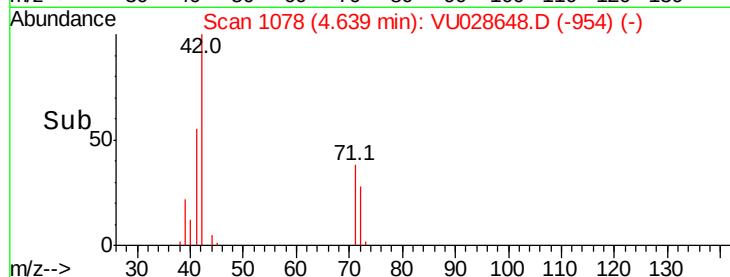
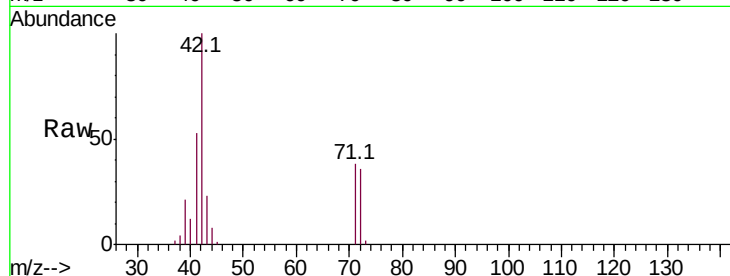
Ion Ratio Lower Upper

41 100

39 38.5 43.3 64.9#

67 0.0 53.6 80.4#

52 0.0 22.1 33.1#

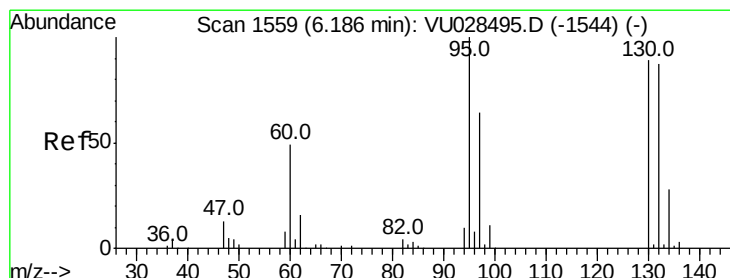
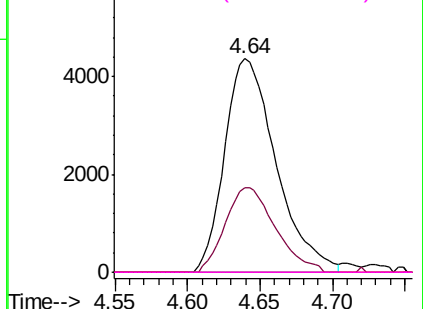


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#44

Trichloroethene

Concen: 5.285 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028648.D

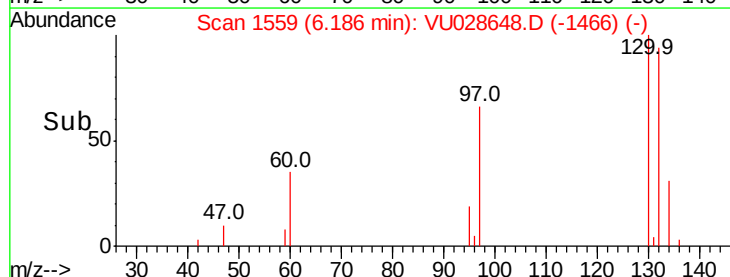
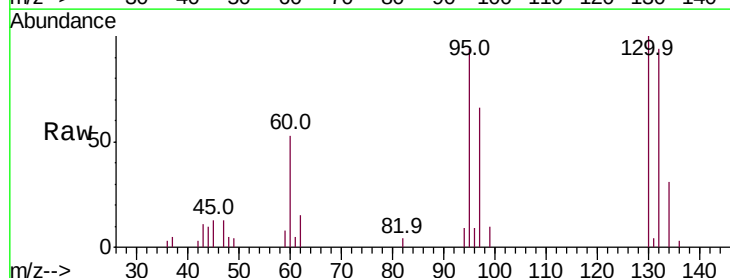
Acq: 12 Dec 2018 13:33

Tgt Ion:130 Resp: 7121

Ion Ratio Lower Upper

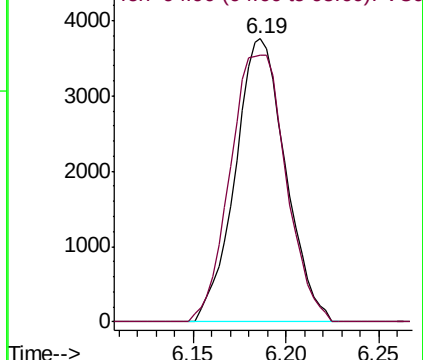
130 100

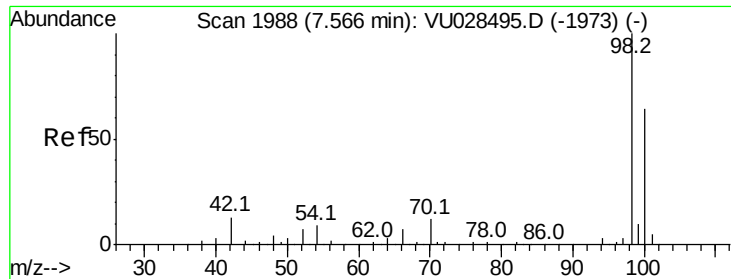
95 94.2 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 51.120 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

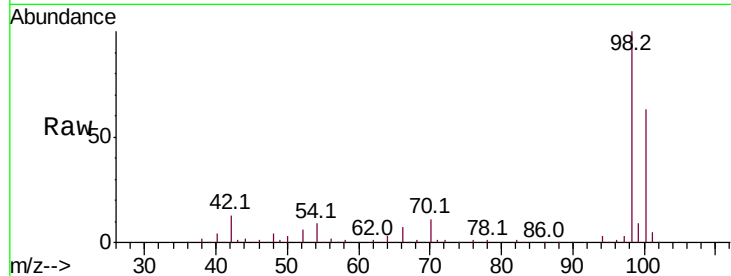
KY038PS027-181210

Tot Ion: 98 Resp: 239265

Ion Ratio Lower Upper

98 100

100 63.4 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

7.57

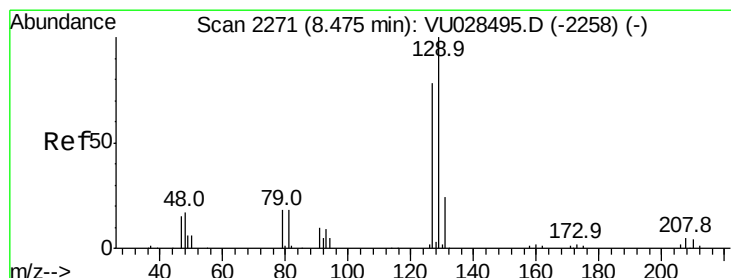
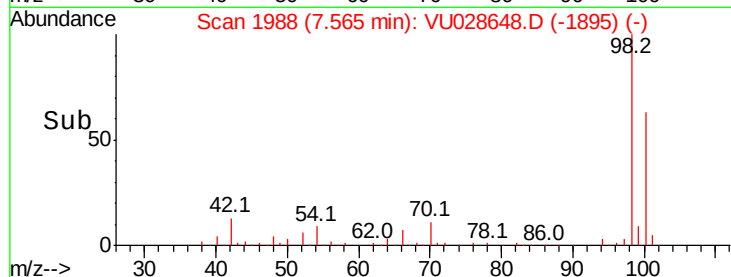
150000

100000

50000

0

Time-->



#60

Dibromochloromethane

Concen: 5.848 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028648.D

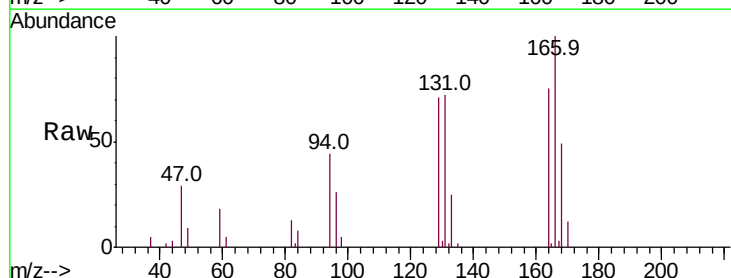
Acq: 12 Dec 2018 13:33

Tgt Ion: 129 Resp: 8071

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VU028495.D (-2258) (-)

Ion 126.80 (126.50 to 127.50): VU028495.D (-2258) (-)

8.23

5000

4000

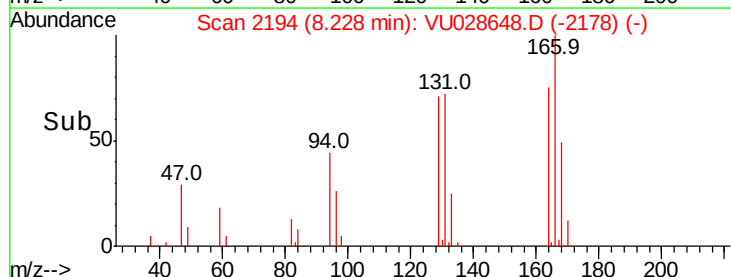
3000

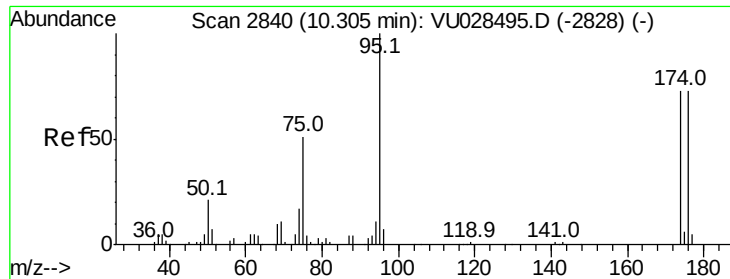
2000

1000

0

Time-->

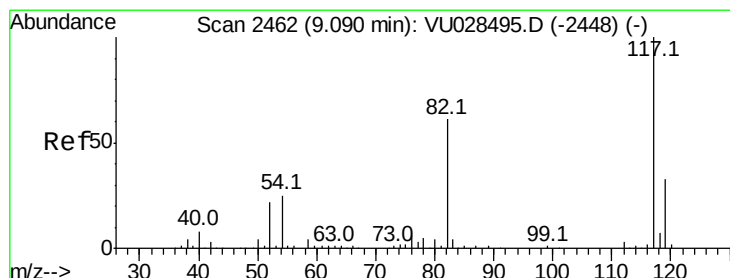
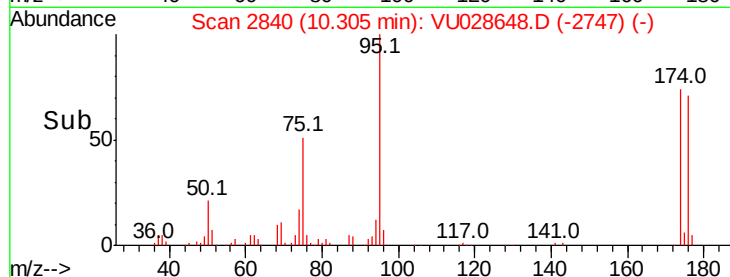
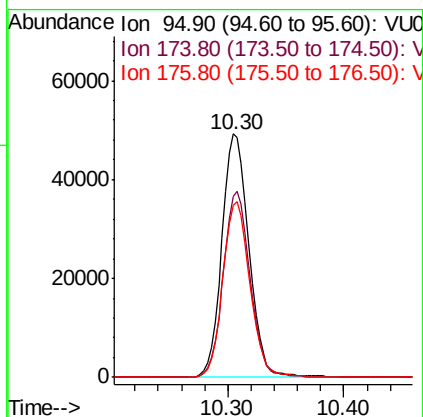
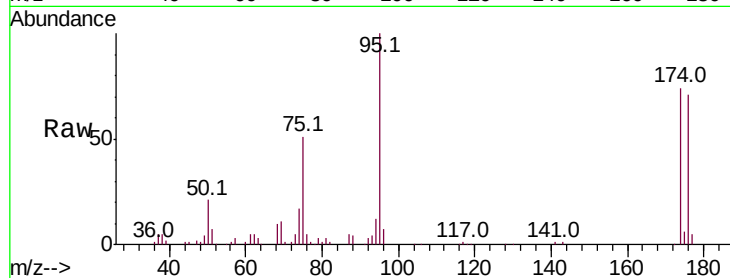




#62
4-Bromofluorobenzene
Concen: 45.344 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU028648.D
Acq: 12 Dec 2018 13:33

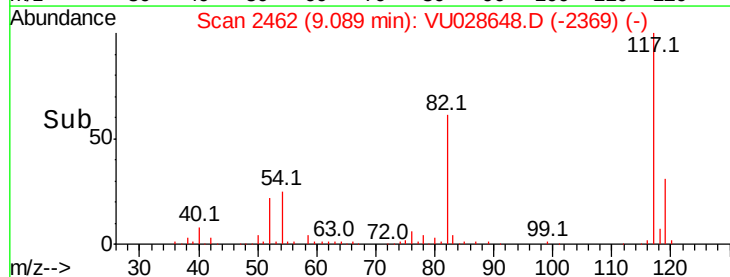
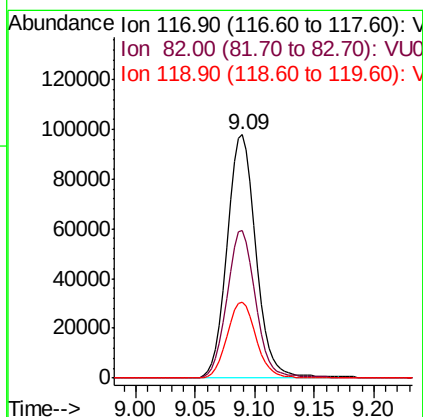
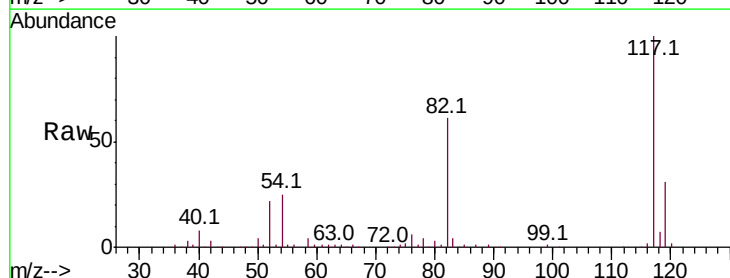
Instrument :
MSVOA_U
ClientSampleId :
KY038PS027-181210

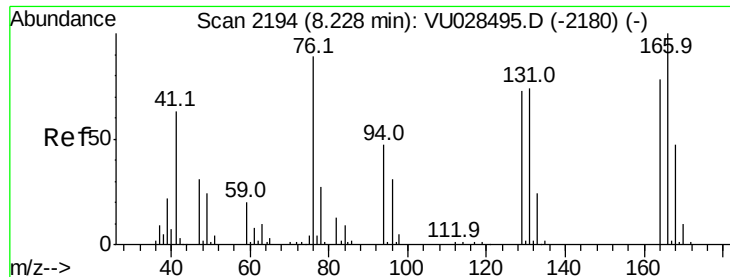
Tot Ion: 95 Resp: 79324
Ion Ratio Lower Upper
95 100
174 75.5 0.0 150.4
176 72.3 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028648.D
Acq: 12 Dec 2018 13:33

Tgt Ion: 117 Resp: 164726
Ion Ratio Lower Upper
117 100
82 60.6 48.9 73.3
119 31.4 26.2 39.4





#64

Tetrachloroethene

Concen: 7.667 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

KY038PS027-181210

Tot Ion:164 Resp: 8424

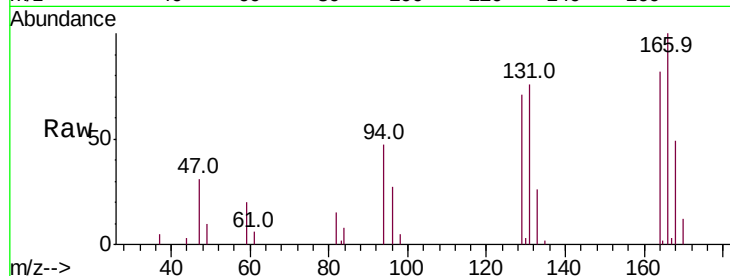
Ion Ratio Lower Upper

164 100

166 121.8 101.9 152.9

129 85.9 74.9 112.3

131 92.2 75.4 113.0

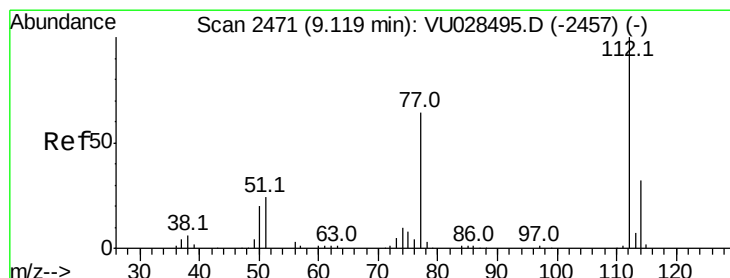
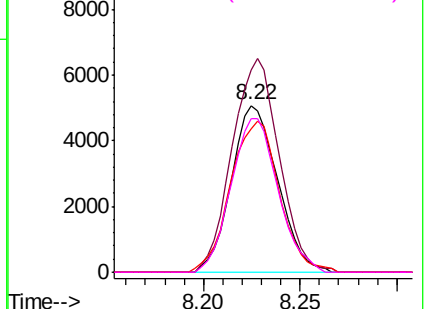
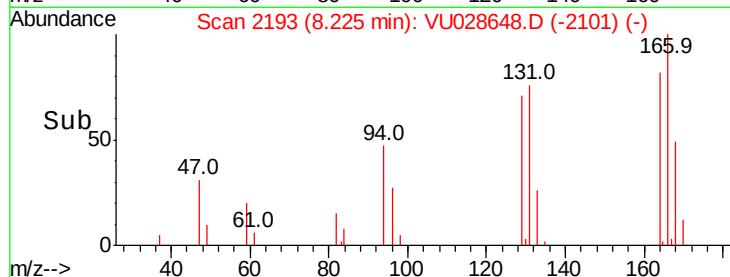


Abundance Ion 163.80 (163.50 to 164.50): V

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



#65

Chlorobenzene

Concen: 1.878 ug/l

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU028648.D

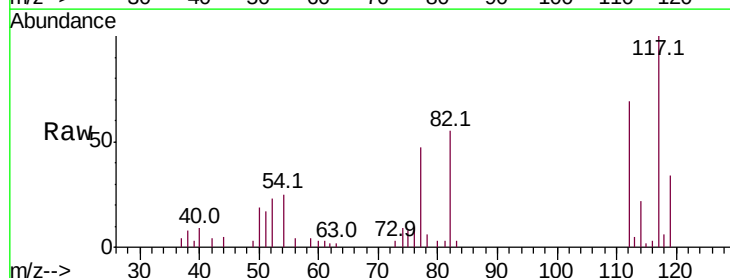
Acq: 12 Dec 2018 13:33

Tgt Ion:112 Resp: 6591

Ion Ratio Lower Upper

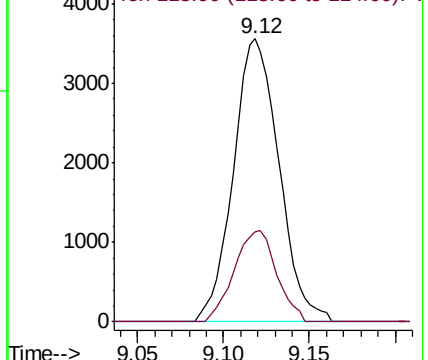
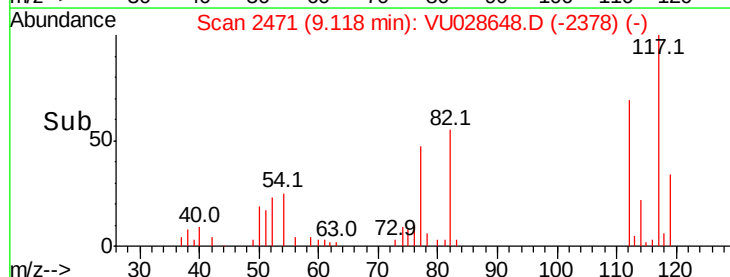
112 100

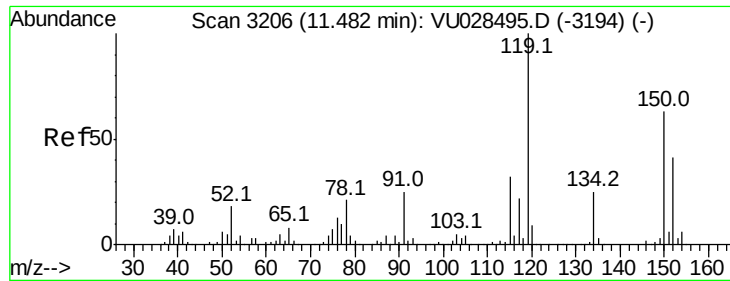
114 31.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

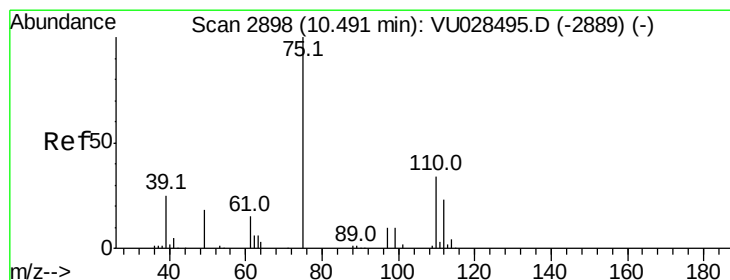
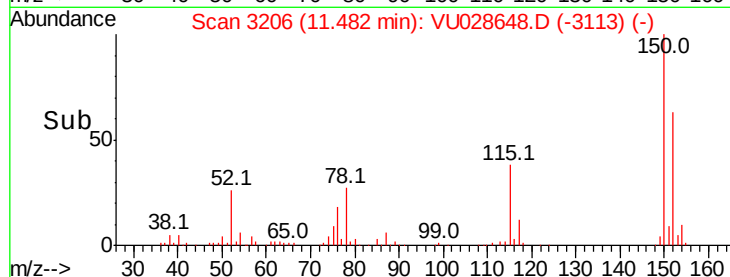
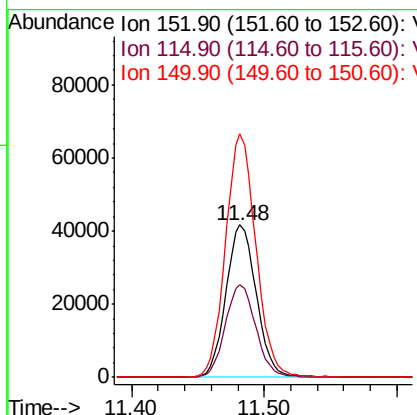
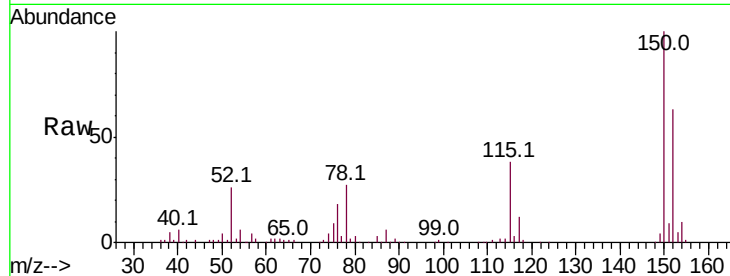




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU028648.D
 Acq: 12 Dec 2018 13:33

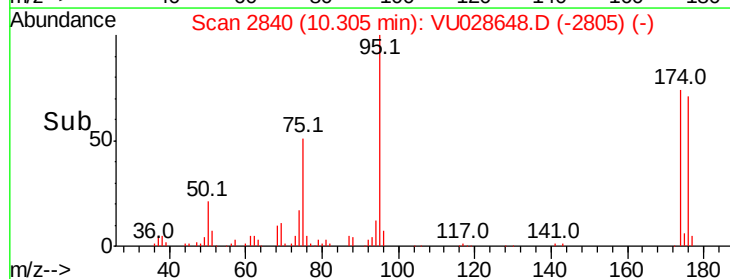
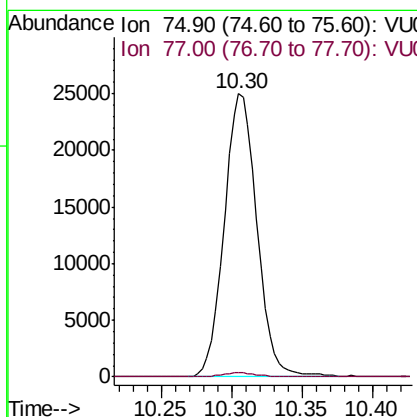
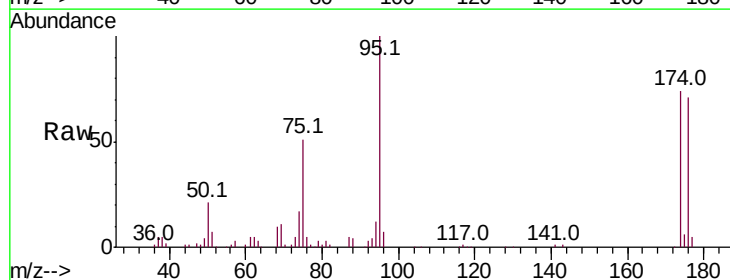
Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS027-181210

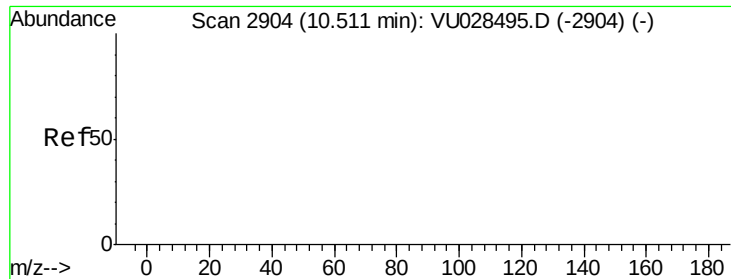
Tot Ion:152 Resp: 66509
 Ion Ratio Lower Upper
 152 100
 115 61.0 42.7 128.1
 150 159.2 0.0 346.0



#76
 1,2,3-Trichloropropane
 Concen: 23.859 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028648.D
 Acq: 12 Dec 2018 13:33

Tgt Ion: 75 Resp: 40520
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.8 62.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 58.570 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028648.D

Acq: 12 Dec 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

KY038PS027-181210

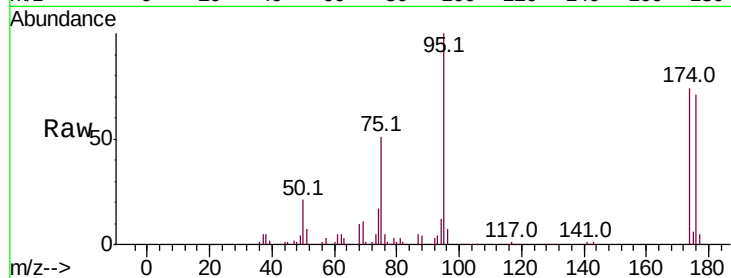
Tot Ion: 75 Resp: 40520

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

