

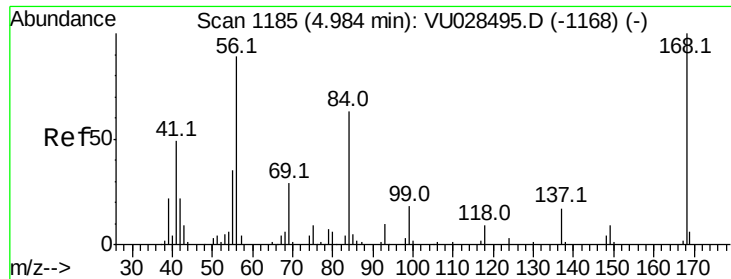
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121918\
 Data File : VU028789.D
 Acq On : 19 Dec 2018 13:19
 Operator : MD/SY
 Sample : J6405-03DL 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TT101D2-20181212DL

Quant Time: Dec 20 03:19:49 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	126060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	211334	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	191874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	77217	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	82492	42.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.76%	
35) Dibromofluoromethane	4.88	113	69321	52.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.24%	
50) Toluene-d8	7.56	98	268627	51.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.12%	
62) 4-Bromofluorobenzene	10.30	95	86283	43.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.76%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	2004	0.645	ug/l	94
4) Vinyl Chloride	1.28	62	3068	1.369	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.29	101	2489	1.764	ug/l	92
11) Tert butyl alcohol	2.84	59	407	0.950	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	644	0.459	ug/l #	83
18) Methyl Acetate	2.62	43	880	0.270	ug/l #	56
31) Cyclohexane	4.98	56	2354	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	9237	3.994	ug/l #	50
38) Carbon Tetrachloride	4.98	117	11441	6.138	ug/l #	15
39) Methylcyclohexane	6.18	83	1473	0.522	ug/l #	1
44) Trichloroethene	6.18	130	125162	82.646	ug/l	89
51) 4-Methyl-2-Pentanone	7.56	43	928	0.311	ug/l #	1
76) 1,2,3-Trichloropropane	10.30	75	41038	20.813	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	41038	51.160	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

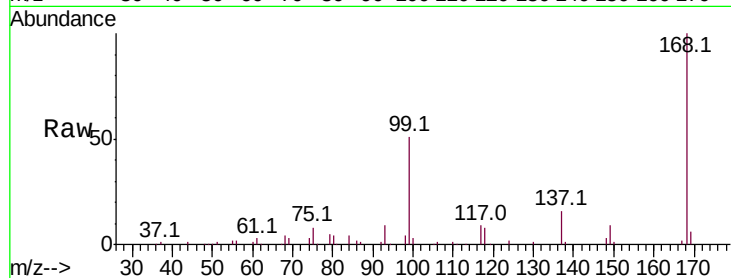
TT101D2-20181212DL

Tot Ion:168 Resp: 126060

Ion Ratio Lower Upper

168 100

99 51.1 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

60000

50000

40000

30000

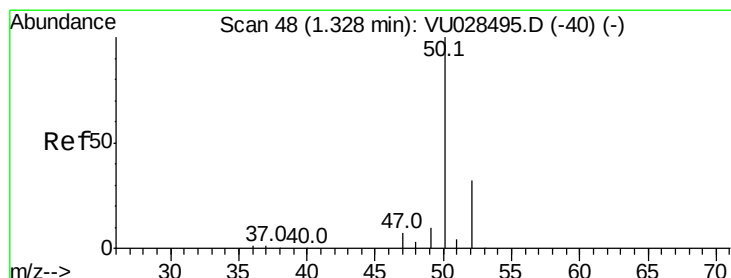
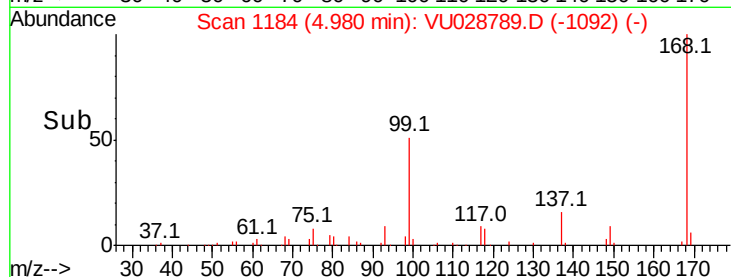
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.645 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028789.D

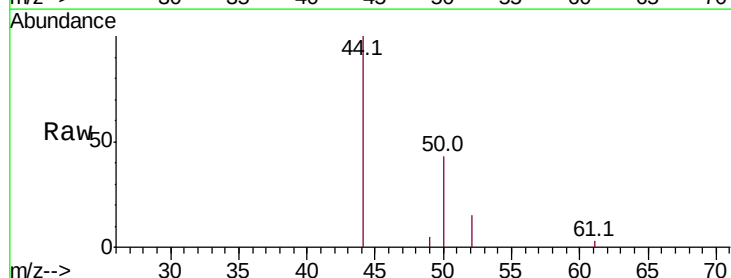
Acq: 19 Dec 2018 13:19

Tgt Ion: 50 Resp: 2004

Ion Ratio Lower Upper

50 100

52 35.4 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

2000

1500

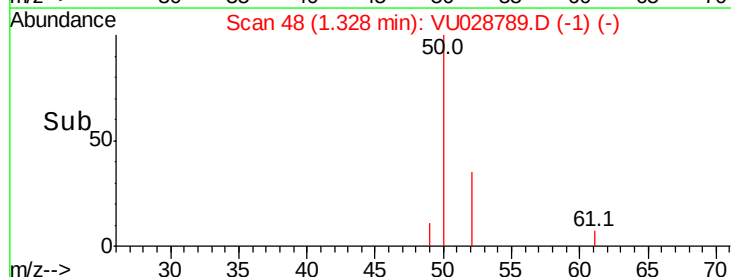
1000

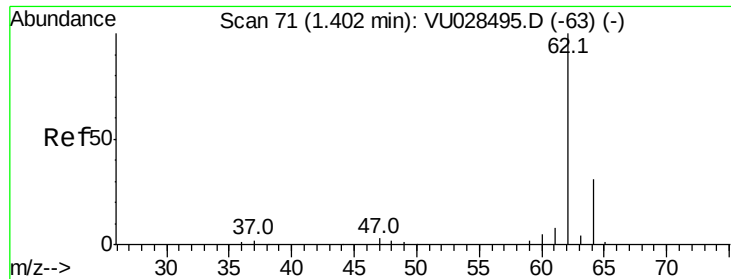
500

0

1.30 1.32 1.34 1.36

Time-->





#4

Vinyl Chloride

Concen: 1.369 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

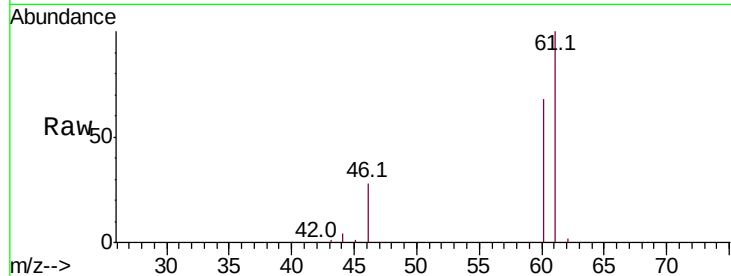
TT101D2-20181212DL

Tot Ion: 62 Resp: 3068

Ion Ratio Lower Upper

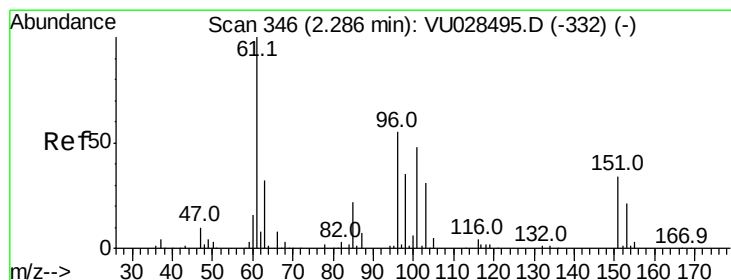
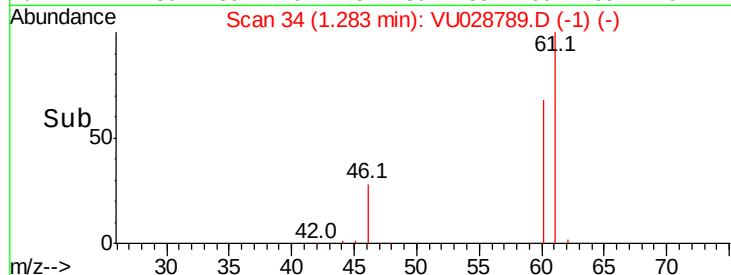
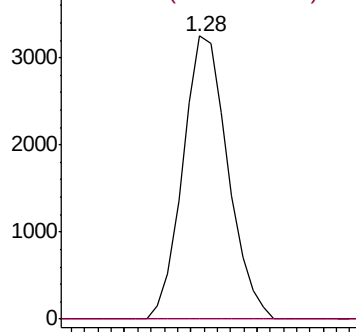
62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.764 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

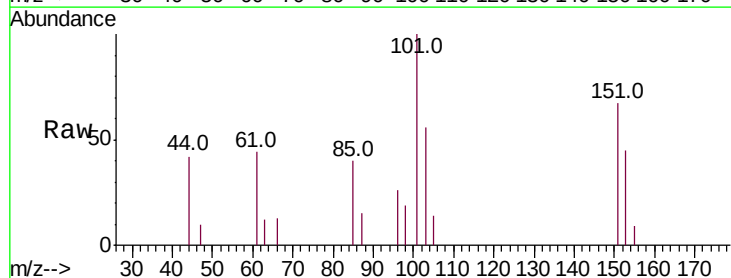
Tgt Ion: 101 Resp: 2489

Ion Ratio Lower Upper

101 100

85 38.9 36.4 54.6

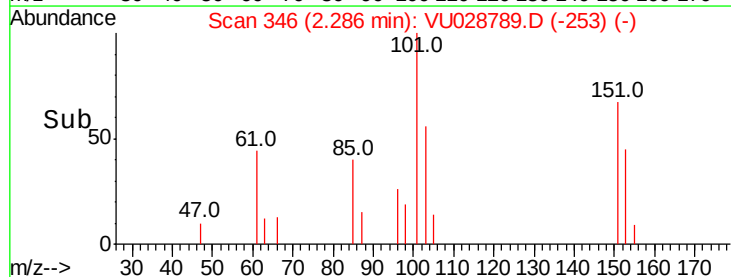
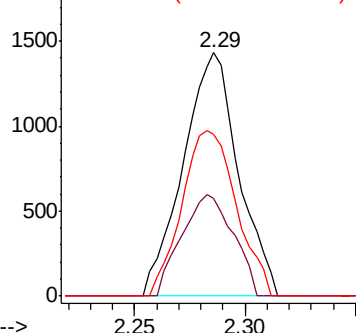
151 66.9 58.2 87.2

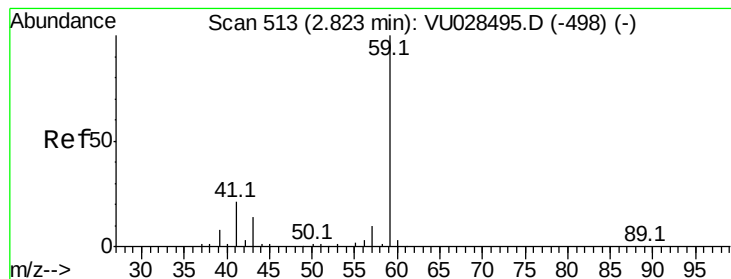


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V





#11

Tert butyl alcohol

Concen: 0.950 ug/l

RT: 2.84 min Scan# 519

Delta R.T. 0.02 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

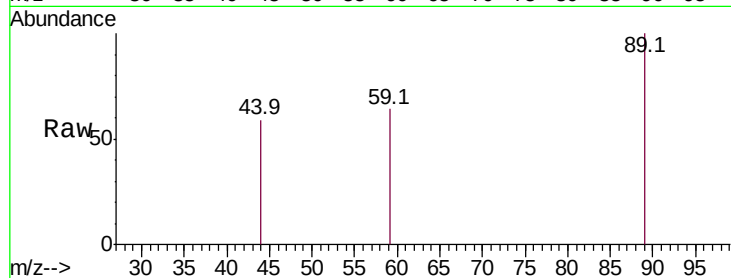
TT101D2-20181212DL

Tot Ion: 59 Resp: 407

Ion Ratio Lower Upper

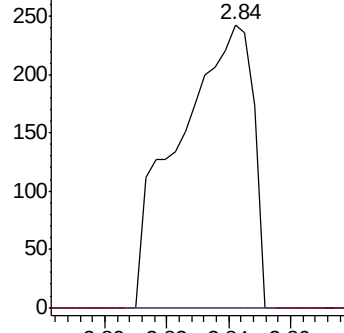
59 100

57 0.0 8.0 12.0#

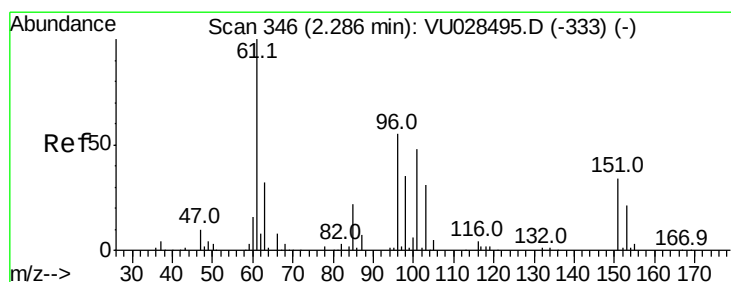
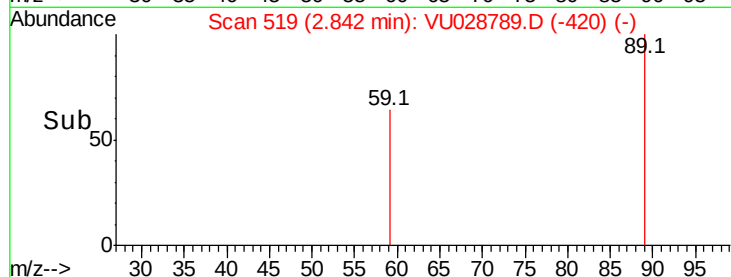


Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->



#12

1,1-Dichloroethene

Concen: 0.459 ug/l

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

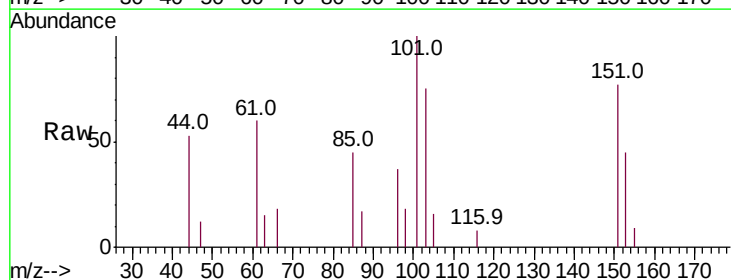
Tgt Ion: 96 Resp: 644

Ion Ratio Lower Upper

96 100

61 161.2 146.4 219.6

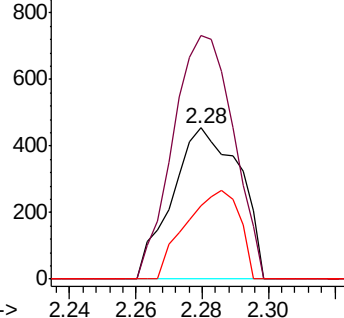
98 48.5 51.8 77.8#



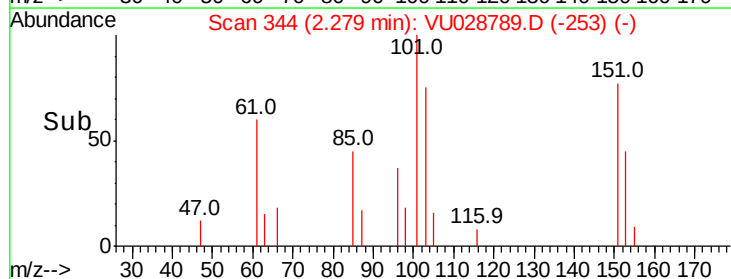
Abundance Ion 95.90 (95.60 to 96.60): VU0

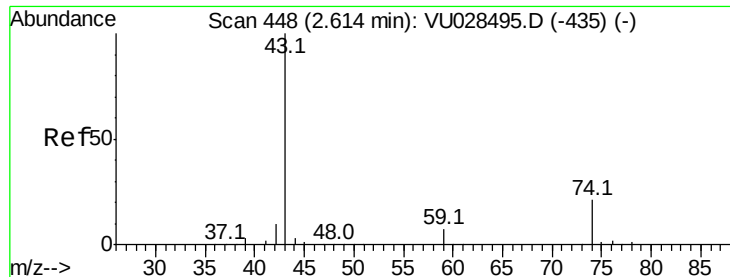
Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



Time-->





#18

Methvl Acetate

Concen: 0.270 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

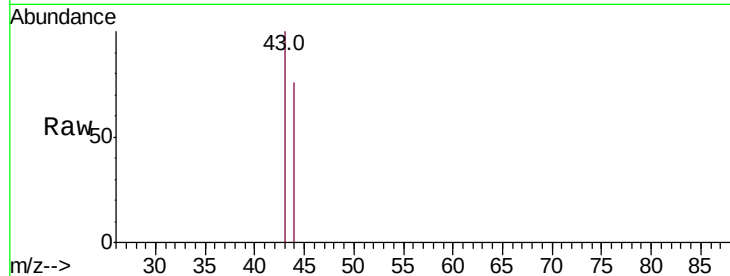
TT101D2-20181212DL

Tot Ion: 43 Resp: 880

Ion Ratio Lower Upper

43 100

74 0.0 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

400

300

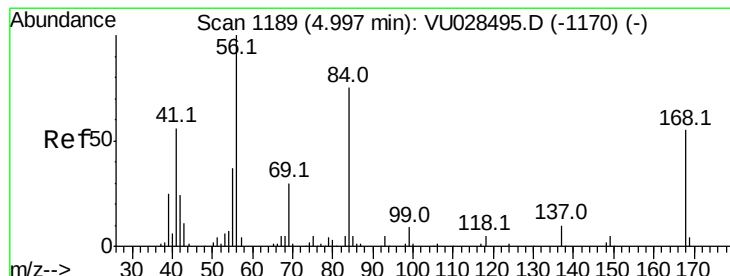
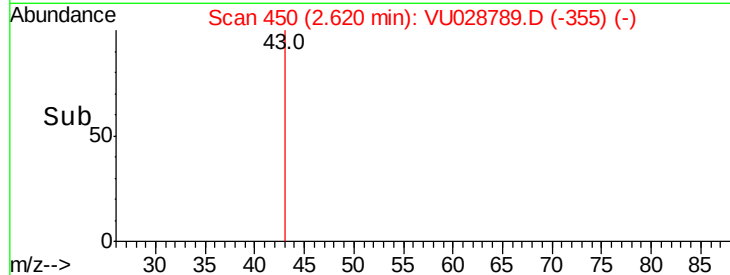
200

100

0

2.60 2.65

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

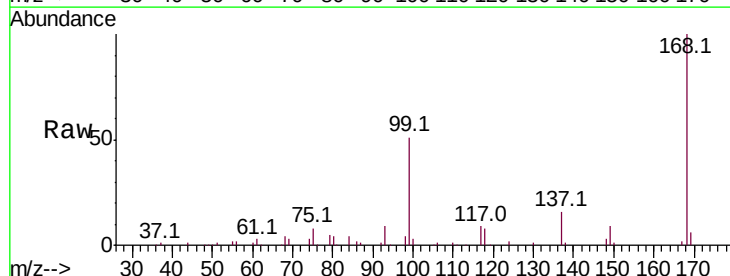
Tgt Ion: 56 Resp: 2354

Ion Ratio Lower Upper

56 100

69 176.8 24.0 36.0#

84 188.4 59.7 89.5#



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

2500

2000

1500

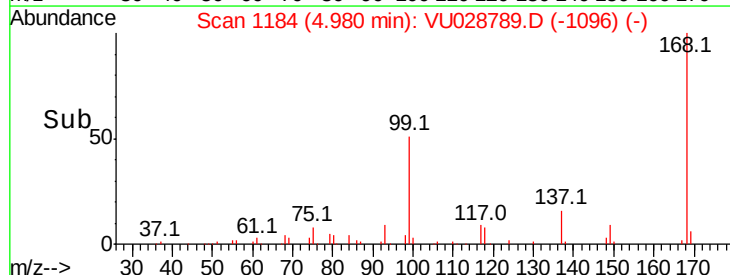
1000

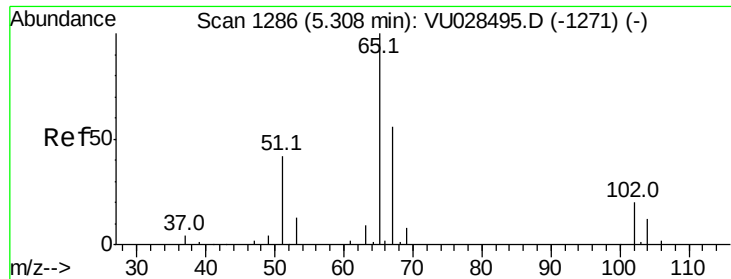
500

0

4.90 4.95 5.00 5.05

Time-->

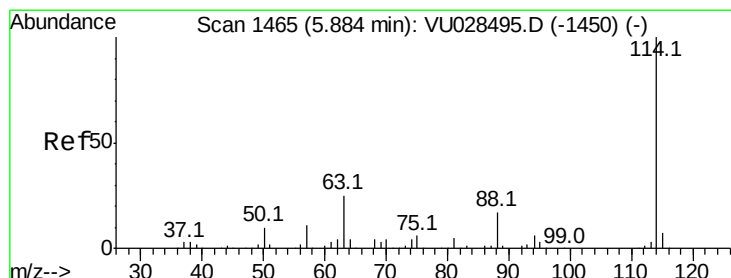
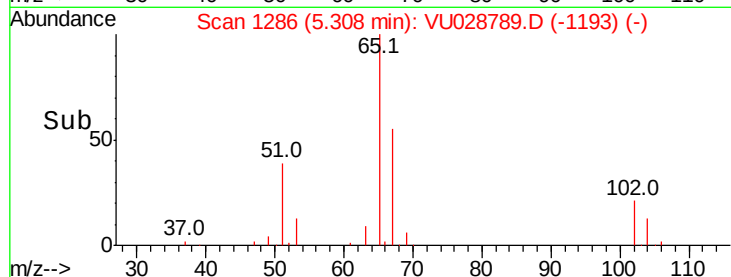
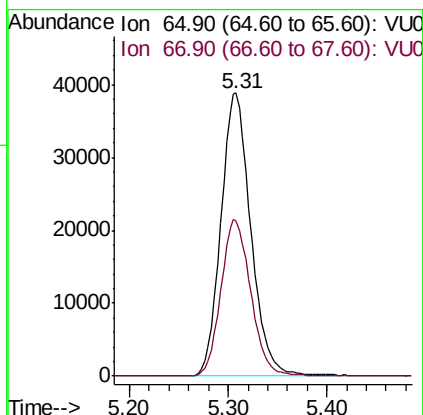
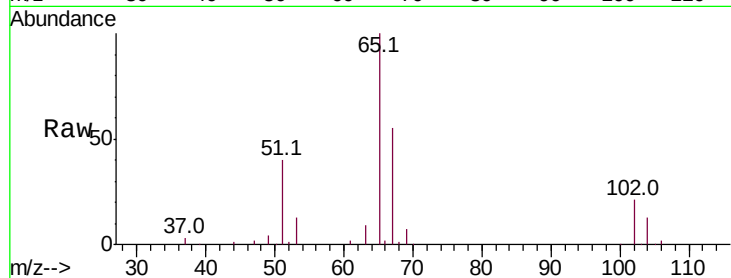




#33
 1,2-Dichloroethane-d4
 Concen: 42.881 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028789.D
 Acq: 19 Dec 2018 13:19

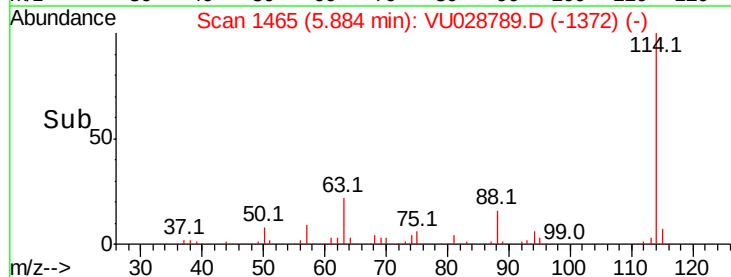
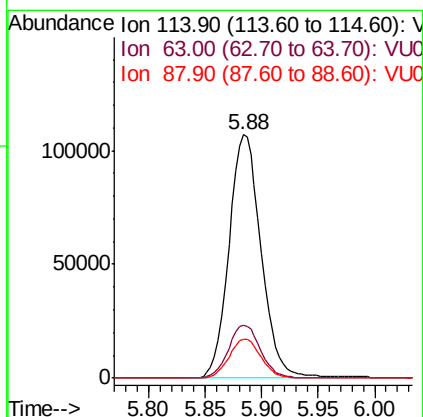
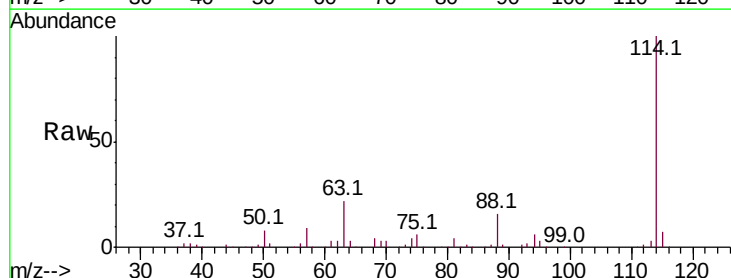
Instrument :
 MSVOA_U
 ClientSampleId :
 TT101D2-20181212DL

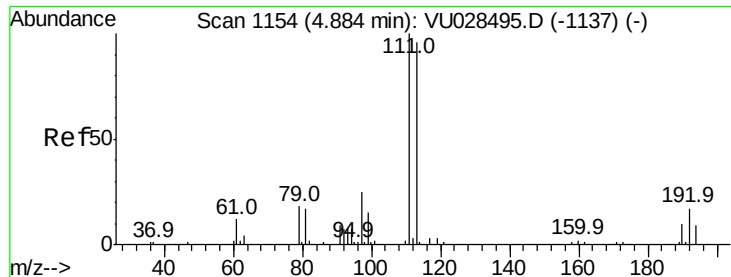
Tot Ion: 65 Resp: 82492
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028789.D
 Acq: 19 Dec 2018 13:19

Tgt Ion: 114 Resp: 211334
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 49.2
 88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.123 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

TT101D2-20181212DL

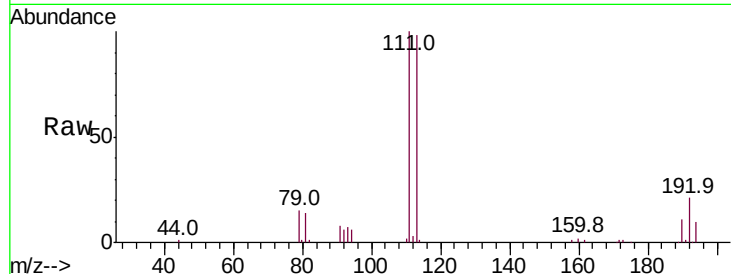
Tot Ion:113 Resp: 69321

Ion Ratio Lower Upper

113 100

111 103.4 83.4 125.0

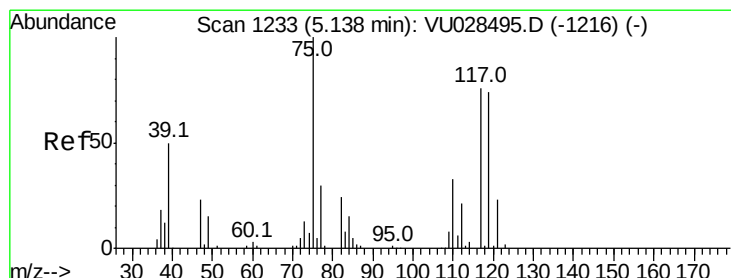
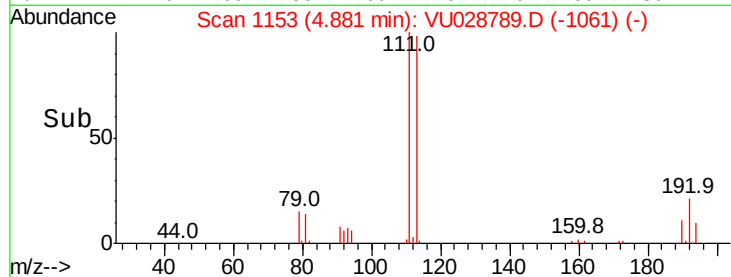
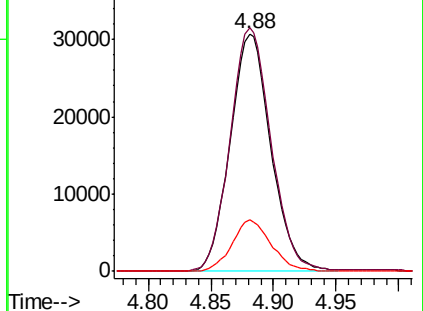
192 20.7 14.8 22.2



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: 3.994 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

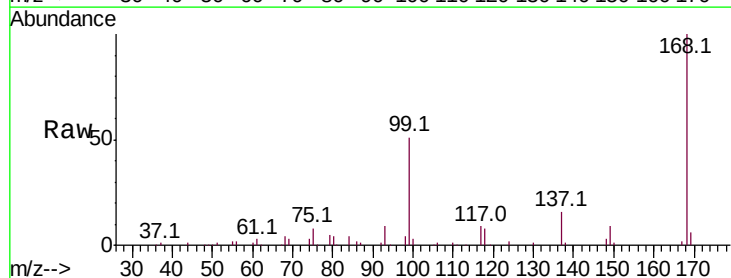
Tgt Ion: 75 Resp: 9237

Ion Ratio Lower Upper

75 100

110 6.8 16.1 48.2#

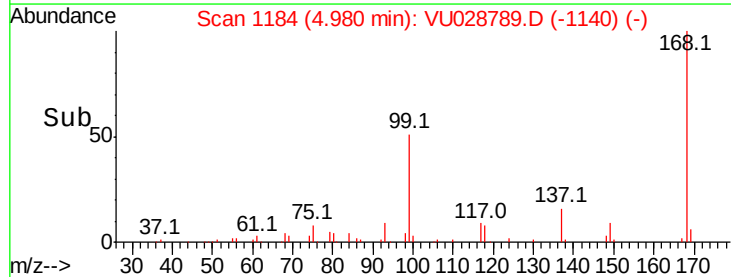
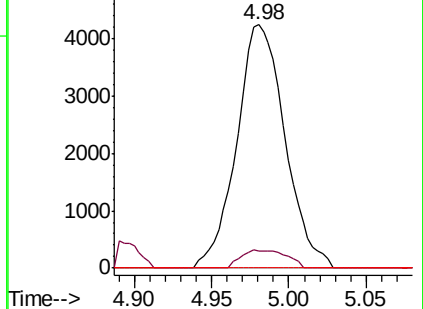
77 0.0 24.5 36.7#

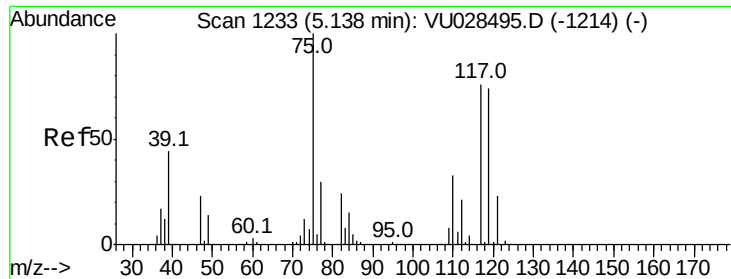


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.138 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

TT101D2-20181212DL

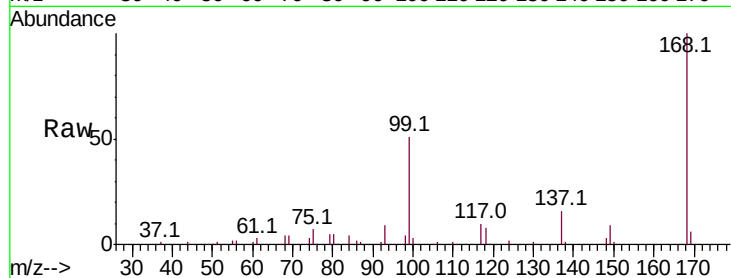
Tot Ion:117 Resp: 11441

Ion Ratio Lower Upper

117 100

119 5.1 77.6 116.4#

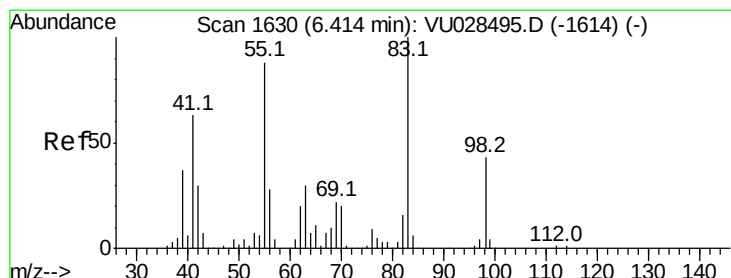
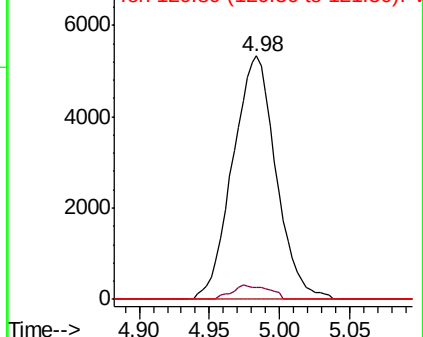
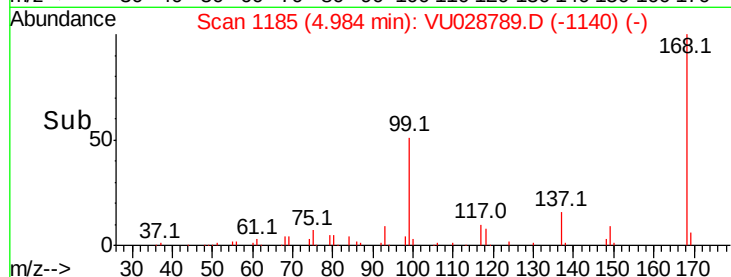
121 0.0 24.6 36.8#



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: 0.522 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.23 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

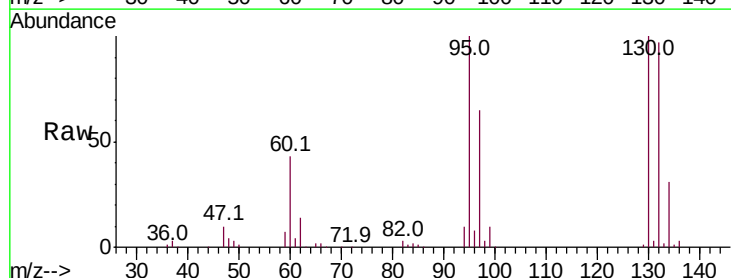
Tgt Ion: 83 Resp: 1473

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

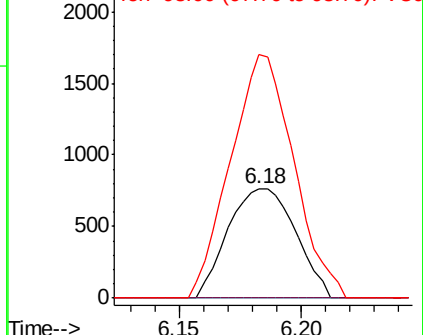
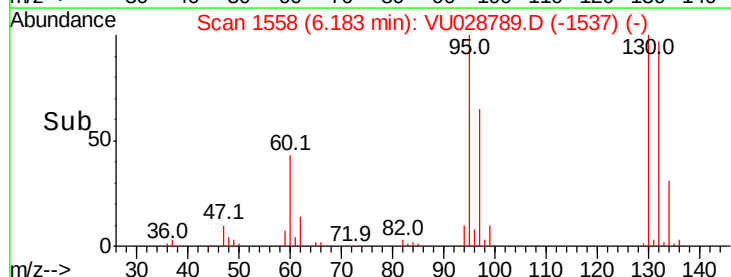
98 222.1 34.2 51.4#

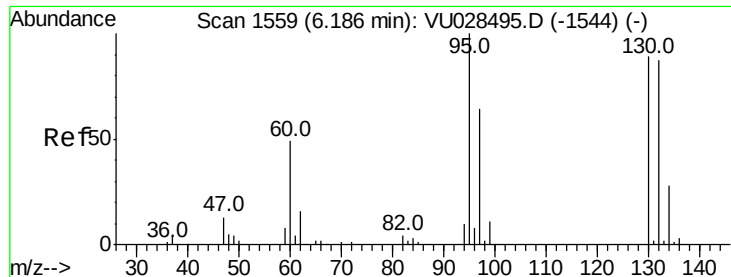


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 82.646 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

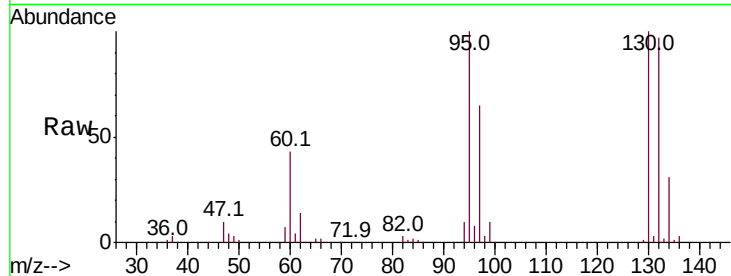
TT101D2-20181212DL

Tot Ion:130 Resp: 125162

Ion Ratio Lower Upper

130 100

95 99.9 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)

6.18

60000

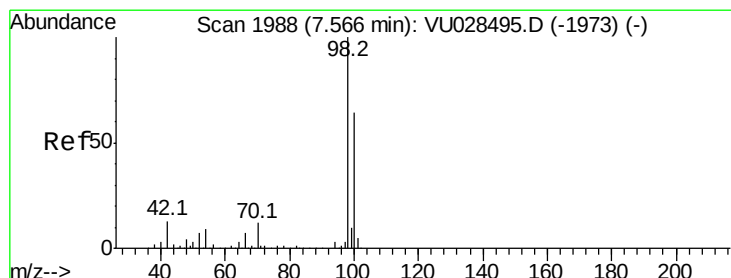
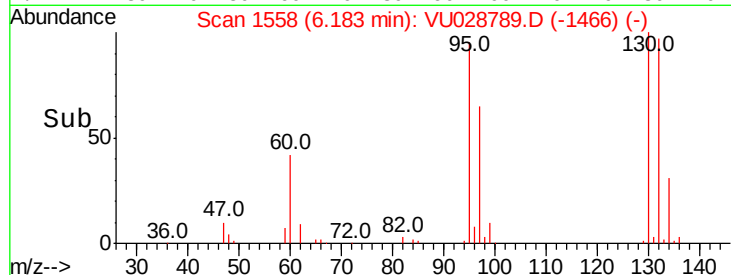
40000

20000

0

6.10 6.20 6.30

Time-->



#50

Toluene-d8

Concen: 51.060 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028789.D

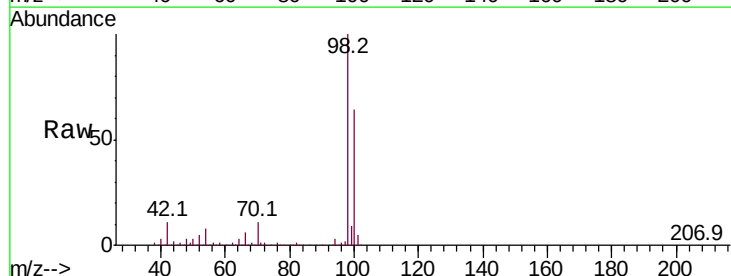
Acq: 19 Dec 2018 13:19

Tgt Ion: 98 Resp: 268627

Ion Ratio Lower Upper

98 100

100 64.1 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) (-)

7.56

150000

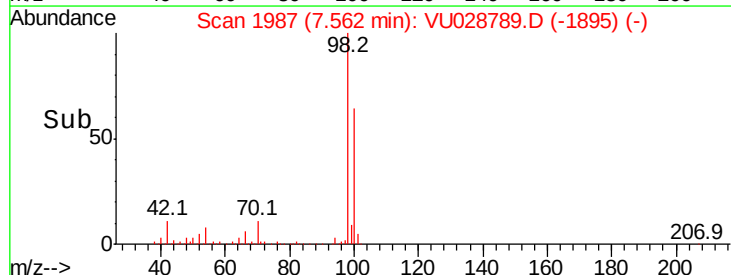
100000

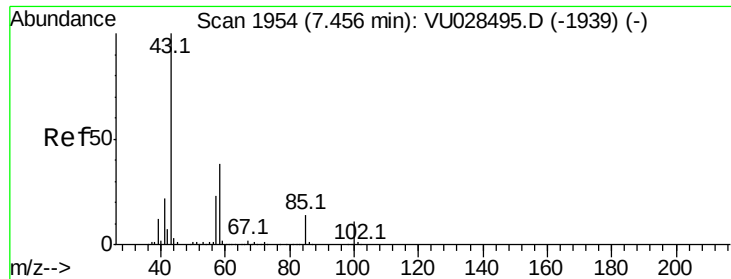
50000

0

7.50 7.60 7.70

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.311 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.11 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

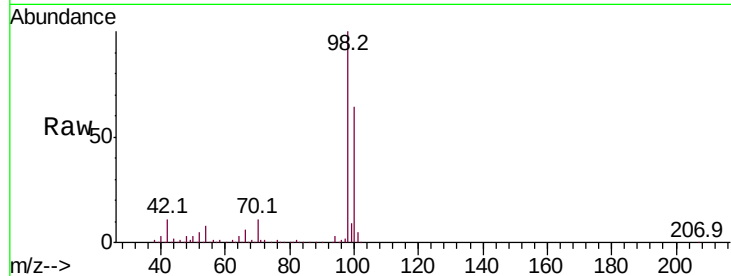
TT101D2-20181212DL

Tot Ion: 43 Resp: 928

Ion Ratio Lower Upper

43 100

58 225.9 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1500

1000

500

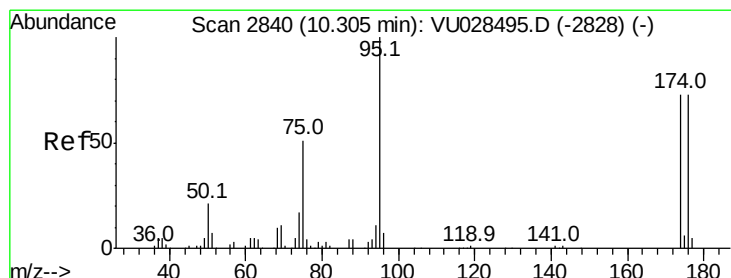
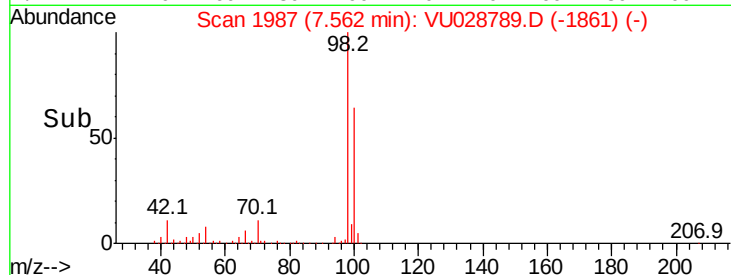
0

7.55

7.56

7.60

Time-->



#62

4-Bromofluorobenzene

Concen: 43.879 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

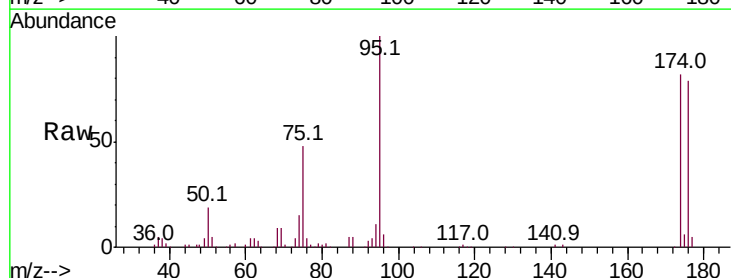
Tgt Ion: 95 Resp: 86283

Ion Ratio Lower Upper

95 100

174 81.0 0.0 150.4

176 79.0 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

60000

40000

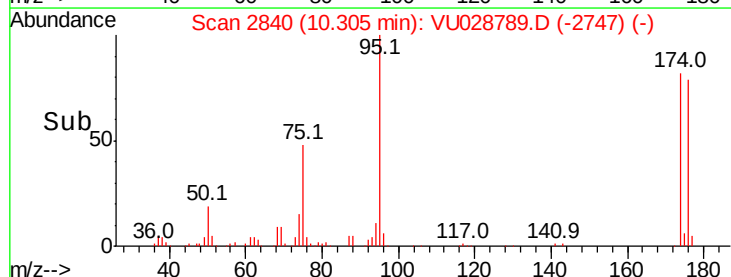
20000

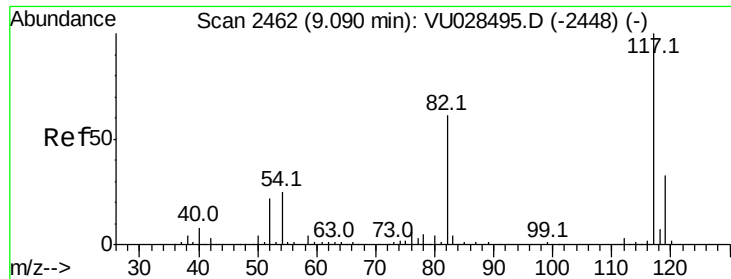
0

10.30

10.40

Time-->

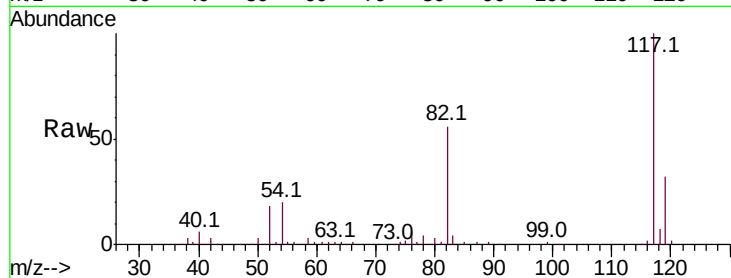




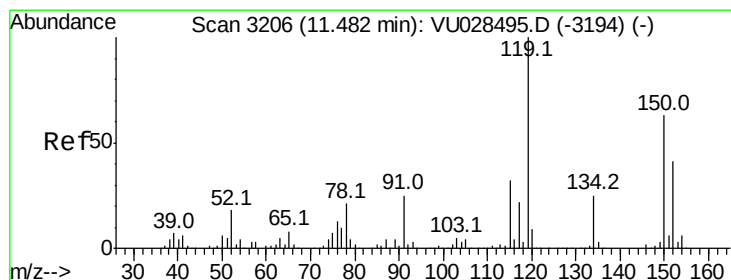
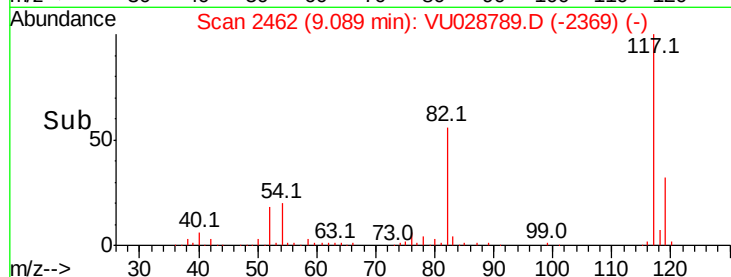
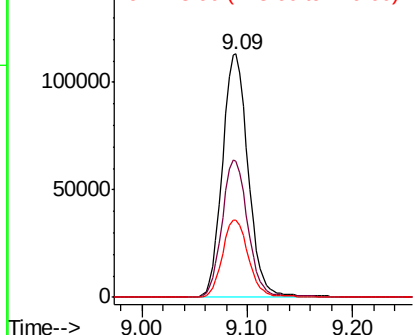
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028789.D
Acq: 19 Dec 2018 13:19

Instrument :
MSVOA_U
ClientSampleId :
TT101D2-20181212DL

Tot Ion:117 Resp: 191874
Ion Ratio Lower Upper
117 100
82 55.8 48.9 73.3
119 31.8 26.2 39.4

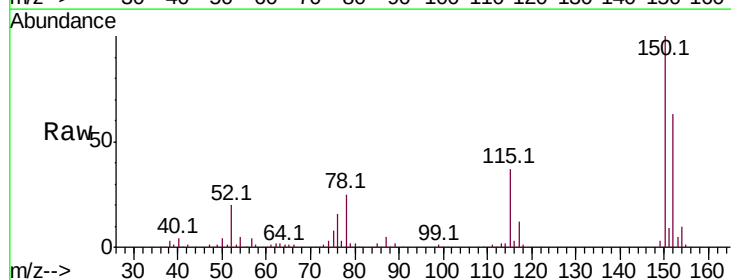


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

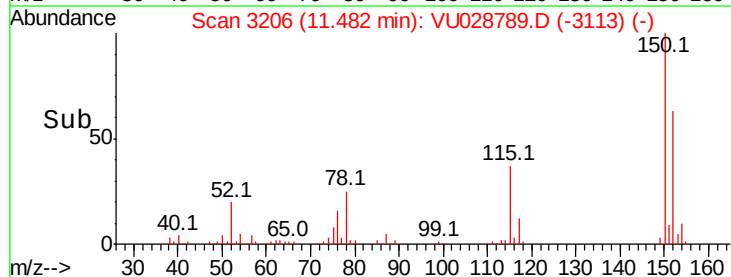
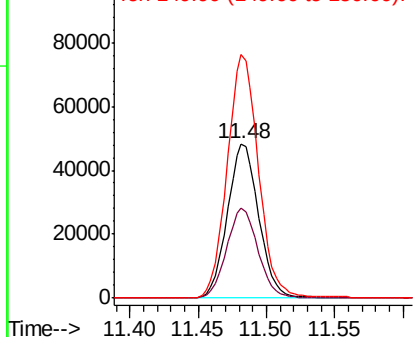


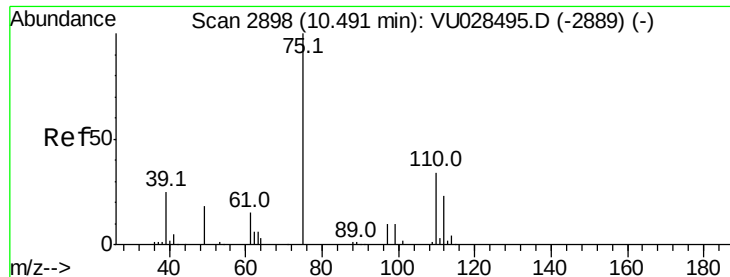
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028789.D
Acq: 19 Dec 2018 13:19

Tgt Ion:152 Resp: 77217
Ion Ratio Lower Upper
152 100
115 58.2 42.7 128.1
150 157.8 0.0 346.0



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: 20.813 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

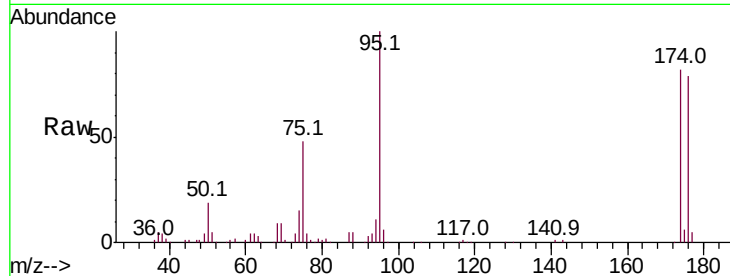
TT101D2-20181212DL

Tot Ion: 75 Resp: 41038

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

30000

25000

20000

15000

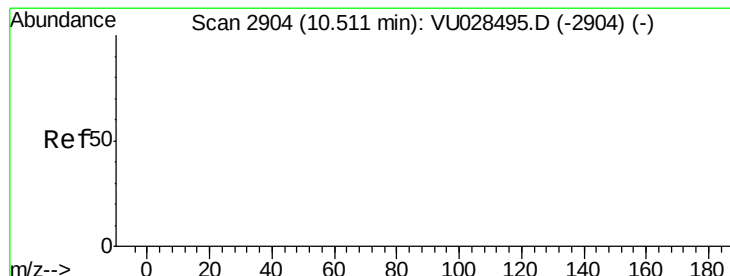
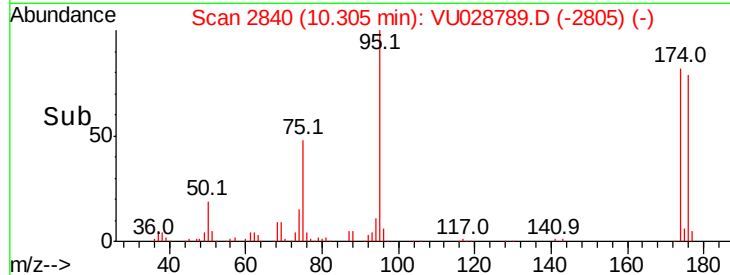
10000

5000

0

10.25 10.30 10.35

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 51.160 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028789.D

Acq: 19 Dec 2018 13:19

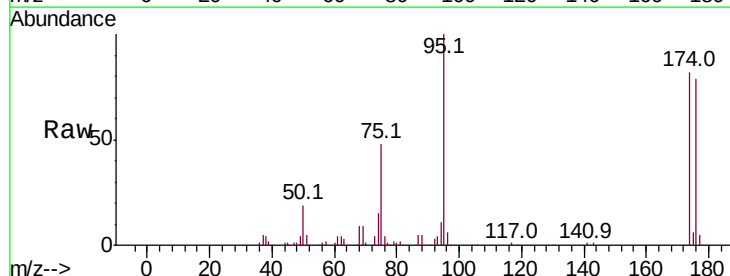
Tgt Ion: 75 Resp: 41038

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

30000

25000

20000

15000

10000

5000

0

10.25 10.30 10.35

Time-->

