

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121318\
 Data File : VU028622.D
 Acq On : 11 Dec 2018 21:15
 Operator : MD/SY
 Sample : J6325-11DL 4X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-131D3-20181205DL

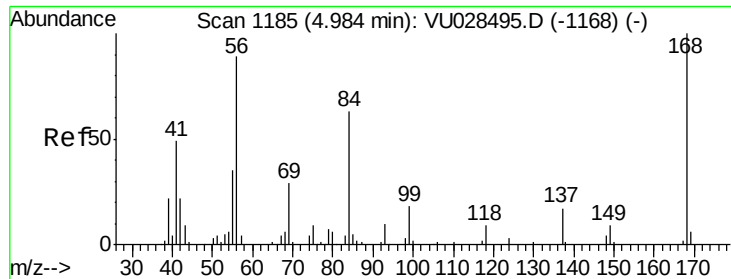
Quant Time: Dec 12 04:13:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	79960	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	147268	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	130771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	50684	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	67644	55.43	ug/l	0.00
Spiked Amount			Recovery	=	110.86%	
35) Dibromofluoromethane	4.88	113	50321	54.30	ug/l	0.00
Spiked Amount			Recovery	=	108.60%	
50) Toluene-d8	7.57	98	187714	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	10.30	95	61606	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1697	0.861	ug/l	90
4) Vinyl Chloride	1.29	62	1461	1.027	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.29	101	41719	46.626	ug/l	97
11) Tert butyl alcohol	2.83	59	94	0.346	ug/l #	73
12) 1,1-Dichloroethene	2.29	96	224	0.252	ug/l #	49
16) Acetone	2.31	43	547	0.687	ug/l #	44
18) Methyl Acetate	2.62	43	503	0.244	ug/l #	56
31) Cyclohexane	4.98	56	1776	Below Cal	#	4
36) 1,1-Dichloropropene	4.98	75	6871	4.264	ug/l #	49
38) Carbon Tetrachloride	4.99	117	7755	5.970	ug/l #	15
44) Trichloroethene	6.19	130	3458	3.277	ug/l	84
51) 4-Methyl-2-Pentanone	7.57	43	946	0.455	ug/l #	1
60) Dibromochloromethane	8.23	129	972	0.899	ug/l #	10
64) Tetrachloroethene	8.23	164	869	0.996	ug/l	95
76) 1,2,3-Trichloropropane	10.30	75	33229	25.675	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	33229	62.989	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: VU028622.D

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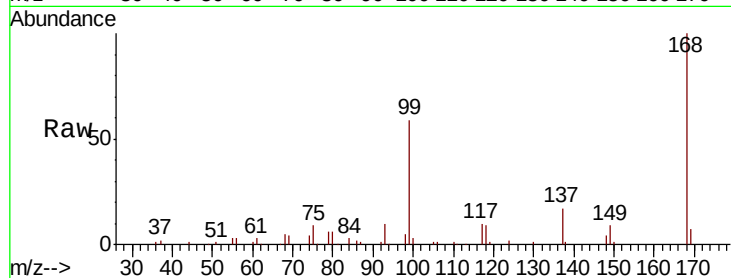
RE-131D3-20181205DL

Tot Ion:168 Resp: 79960

Ion Ratio Lower Upper

168 100

99 59.2 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) (-)

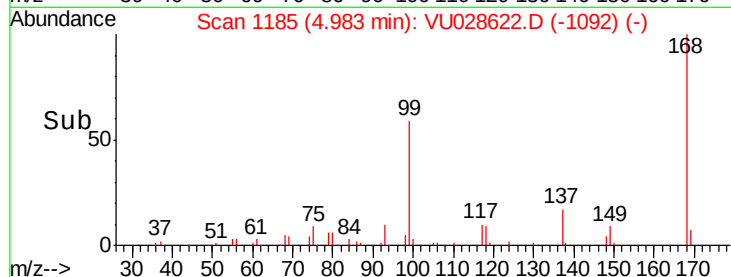
4.98

4.90

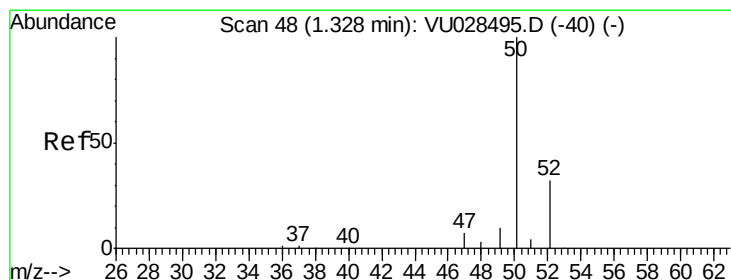
4.95

5.00

5.05



Time-->



#3

Chloromethane

Concen: 0.861 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028622.D

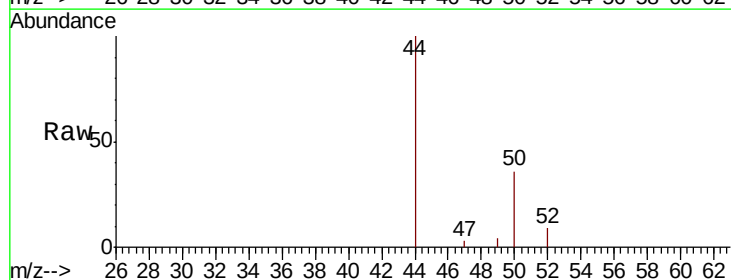
Acq: 11 Dec 2018 21:15

Tgt Ion: 50 Resp: 1697

Ion Ratio Lower Upper

50 100

52 26.3 25.5 38.3



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

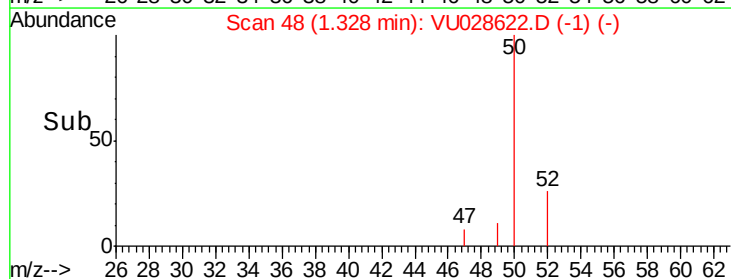
Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

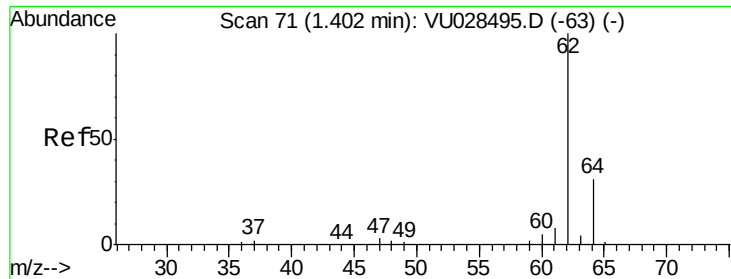
1.30

1.35

1.40



Time-->



#4

Vinyl Chloride

Concen: 1.027 ug/l

RT: 1.29 min Scan# 35

Delta R.T. -0.12 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

Instrument :

MSVOA_U

ClientSampleId :

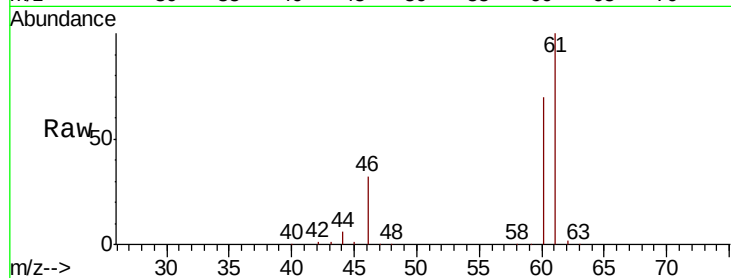
RE-131D3-20181205DL

Tot Ion: 62 Resp: 1461

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU028622.D (-1) (-)

Ion 63.90 (63.60 to 64.60): VU028622.D (-1) (-)

1.29

1500

1000

500

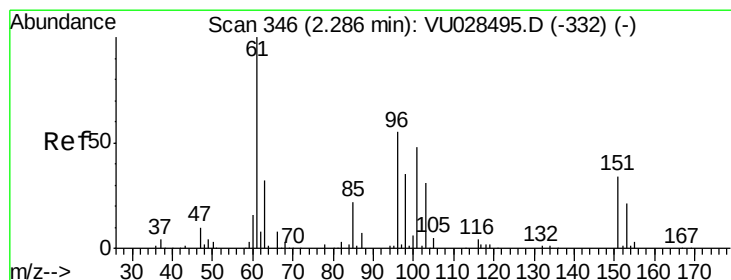
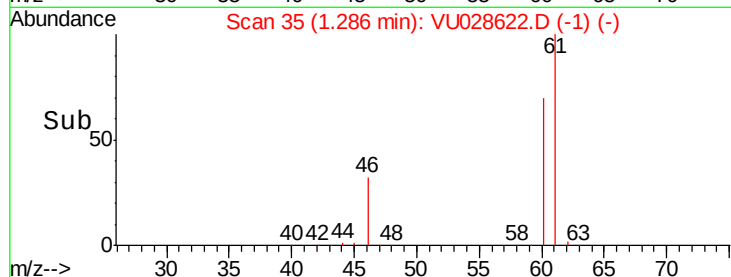
0

Time-->

1.26

1.28

1.30



#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.626 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

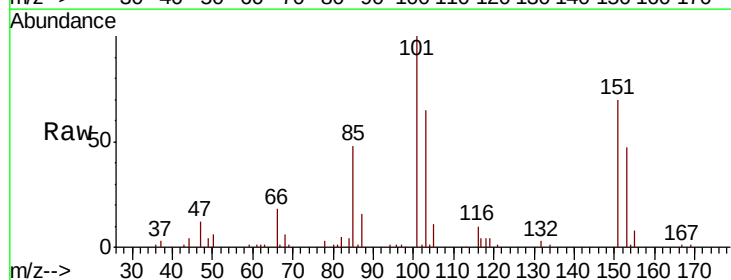
Tgt Ion: 101 Resp: 41719

Ion Ratio Lower Upper

101 100

85 47.5 36.4 54.6

151 70.5 58.2 87.2



Abundance Ion 100.90 (100.60 to 101.60): VU028622.D (-253) (-)

Ion 84.90 (84.60 to 85.60): VU028622.D (-253) (-)

Ion 150.80 (150.50 to 151.50): VU028622.D (-253) (-)

2.29

30000

25000

20000

15000

10000

5000

0

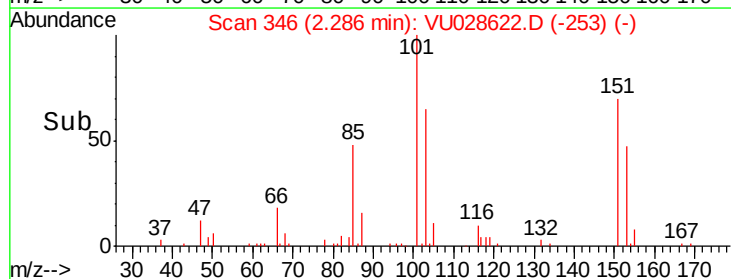
Time-->

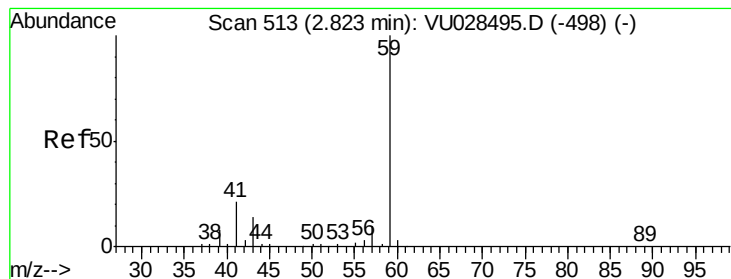
2.20

2.25

2.30

2.35



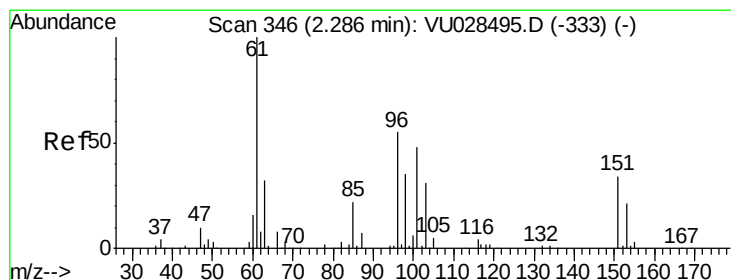
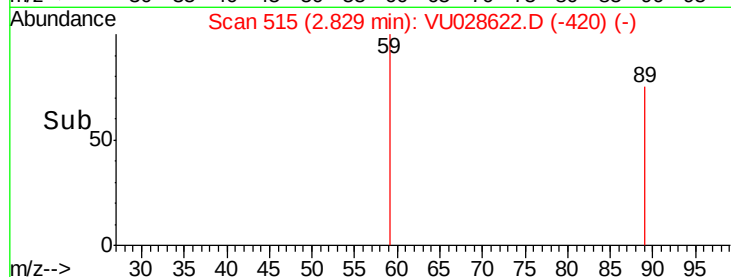
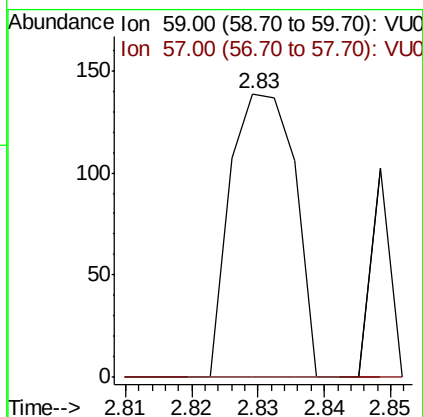
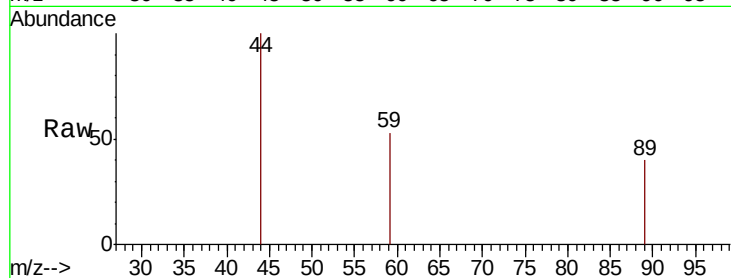


#11

Tert butyl alcohol
 Concen: 0.346 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. 0.01 min
 Lab File: VU028622.D
 Acq: 11 Dec 2018 21:15

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-131D3-20181205DL

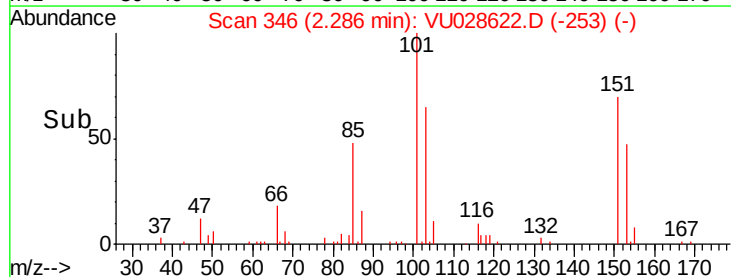
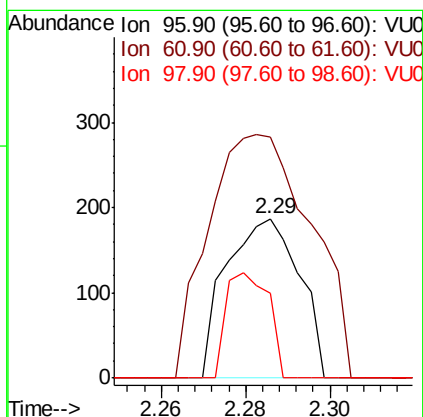
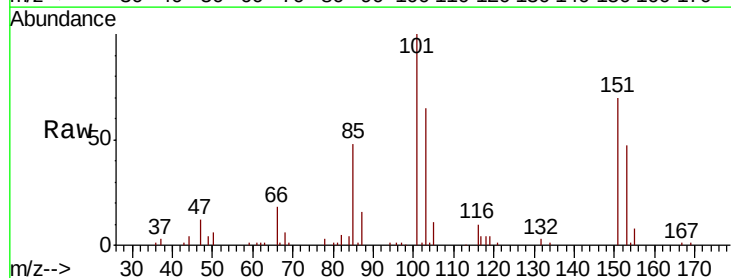
Tot Ion: 59 Resp: 94
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

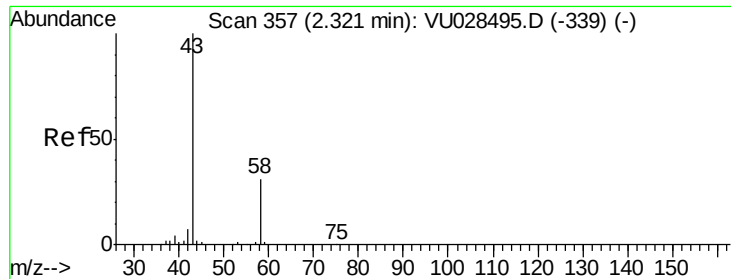


#12

1,1-Dichloroethene
 Concen: 0.252 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. -0.00 min
 Lab File: VU028622.D
 Acq: 11 Dec 2018 21:15

Tgt Ion: 96 Resp: 224
 Ion Ratio Lower Upper
 96 100
 61 92.0 146.4 219.6#
 98 53.5 51.8 77.8





#16

Acetone

Concen: 0.687 ug/l

RT: 2.31 min Scan# 355

Delta R.T. -0.01 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

Instrument :

MSVOA_U

ClientSampleId :

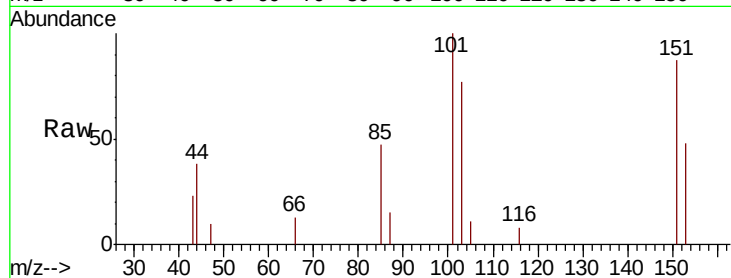
RE-131D3-20181205DL

Tot Ion: 43 Resp: 547

Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.31

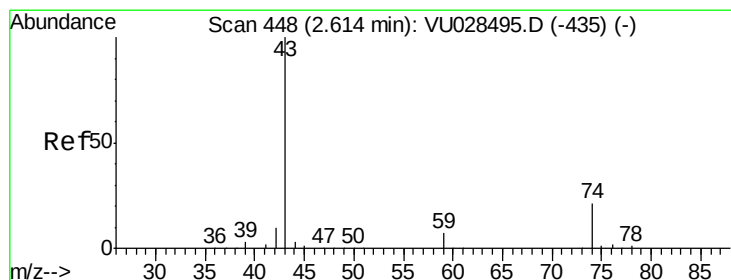
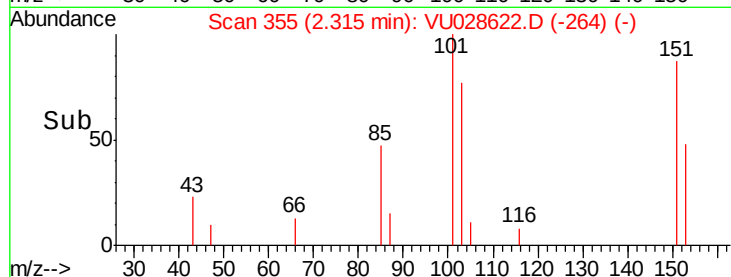
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 0.244 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028622.D

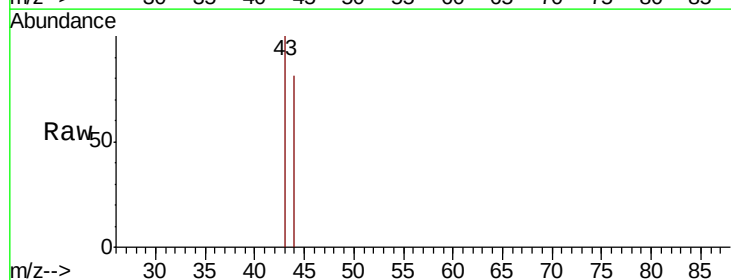
Acq: 11 Dec 2018 21:15

Tgt Ion: 43 Resp: 503

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

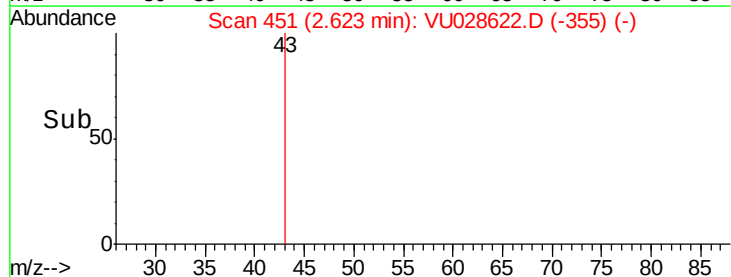
300

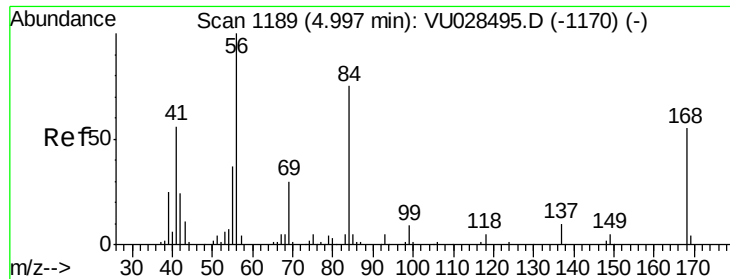
200

100

0

Time-->

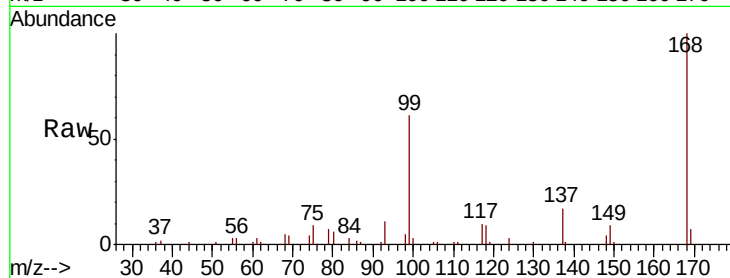




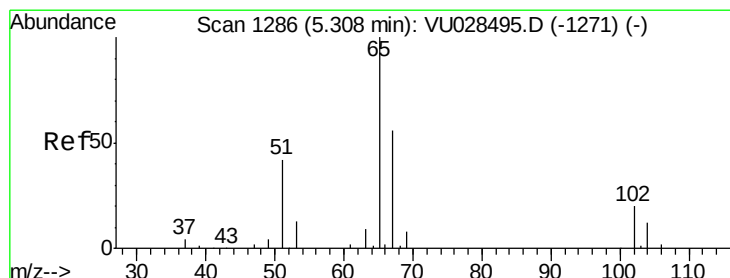
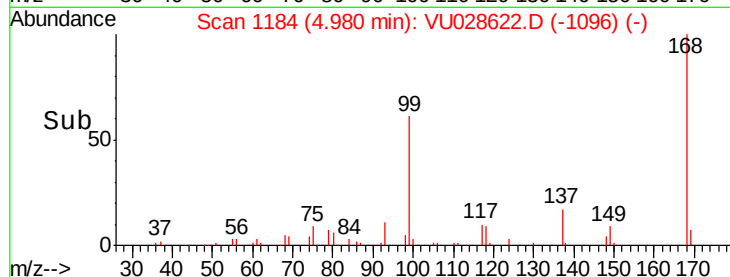
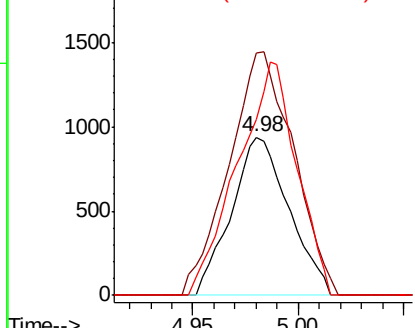
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU028622.D
Acq: 11 Dec 2018 21:15

Instrument :
MSVOA_U
ClientSampleId :
RE-131D3-20181205DL

Tot Ion: 56 Resp: 1776
Ion Ratio Lower Upper
56 100
69 153.3 24.0 36.0#
84 111.0 59.7 89.5#

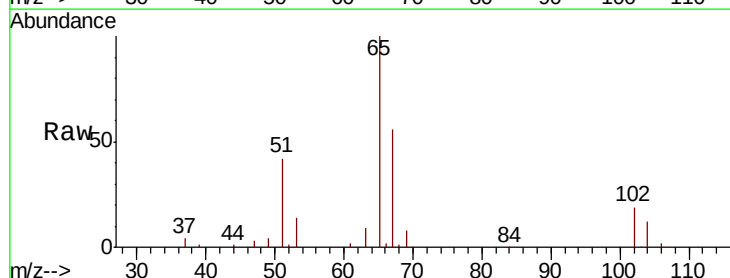


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

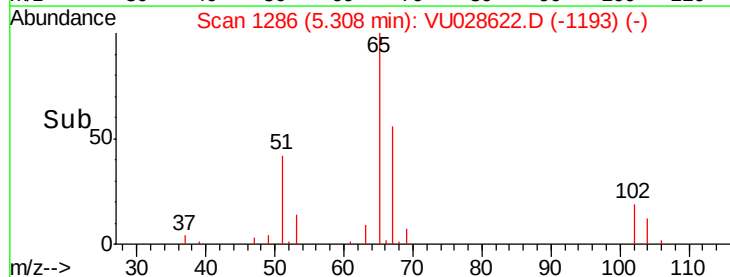
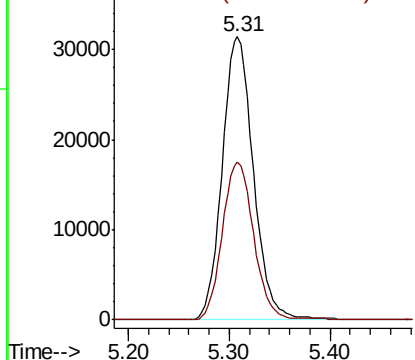


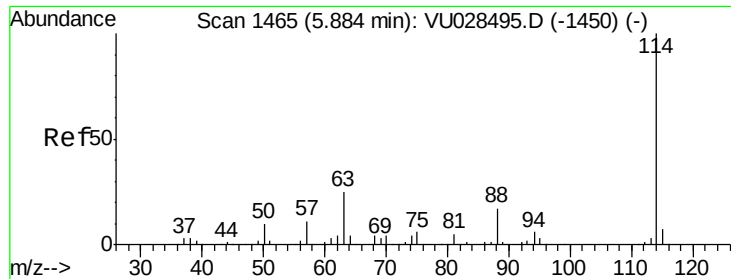
#33
1,2-Dichloroethane-d4
Concen: 55.435 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028622.D
Acq: 11 Dec 2018 21:15

Tgt Ion: 65 Resp: 67644
Ion Ratio Lower Upper
65 100
67 56.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

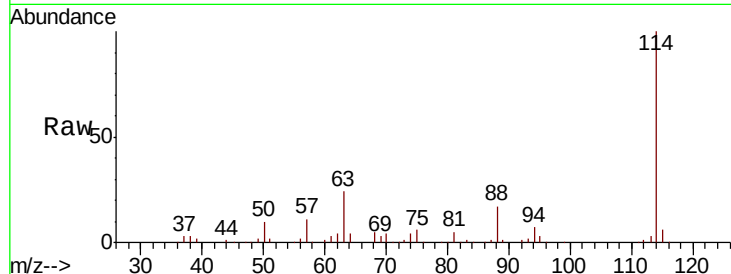




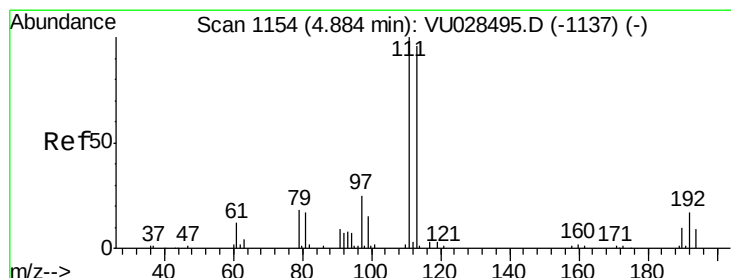
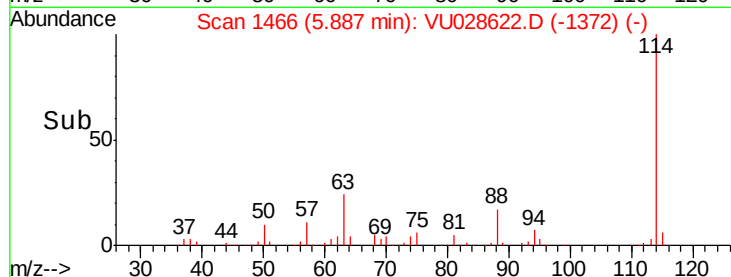
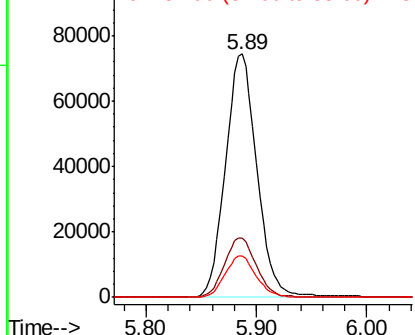
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028622.D
 Acq: 11 Dec 2018 21:15

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-131D3-20181205DL

Tot Ion:114 Resp: 147268
 Ion Ratio Lower Upper
 114 100
 63 24.2 0.0 49.2
 88 17.0 0.0 33.4

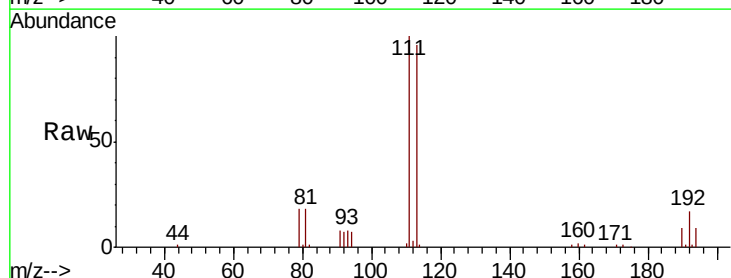


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

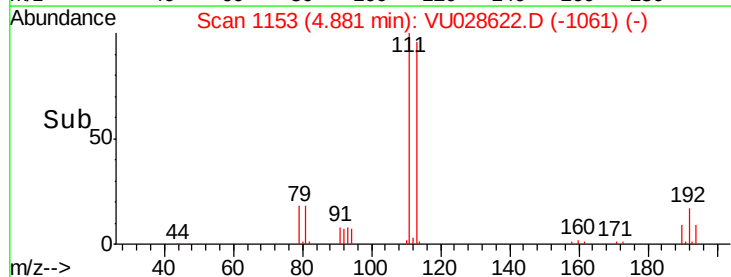
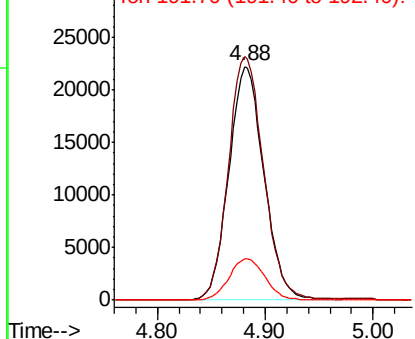


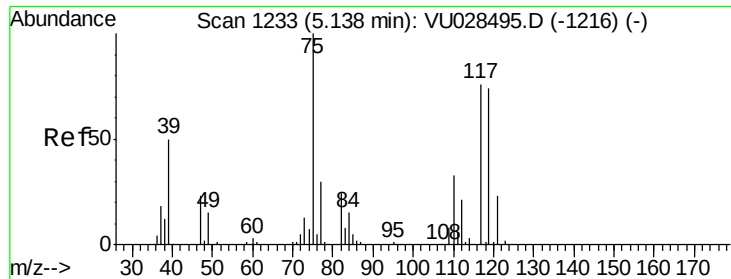
#35
 Dibromofluoromethane
 Concen: 54.297 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028622.D
 Acq: 11 Dec 2018 21:15

Tgt Ion:113 Resp: 50321
 Ion Ratio Lower Upper
 113 100
 111 104.1 83.4 125.0
 192 18.0 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

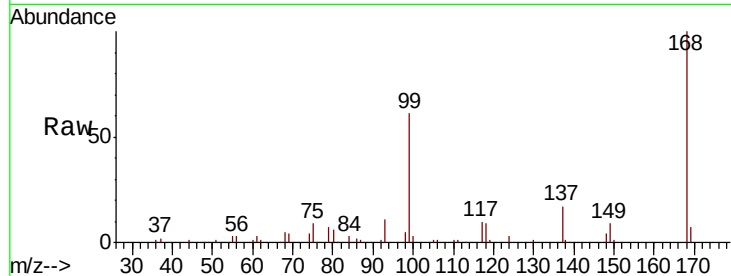




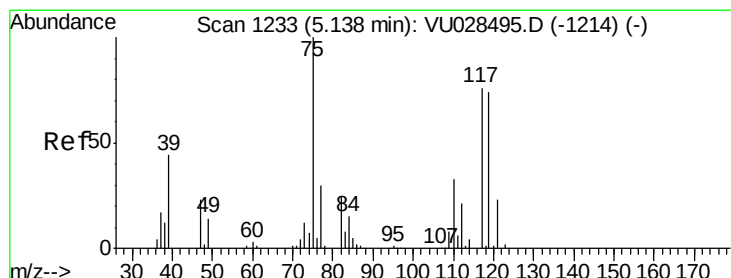
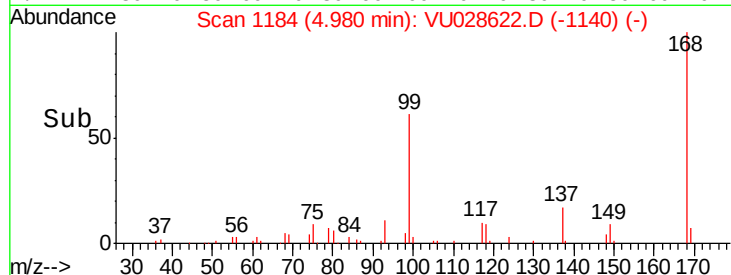
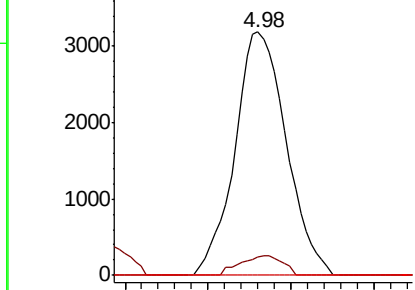
#36
 1,1-Dichloropropene
 Concen: 4.264 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028622.D
 Acq: 11 Dec 2018 21:15

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-131D3-20181205DL

Tot Ion: 75 Resp: 6871
 Ion Ratio Lower Upper
 75 100
 110 6.7 16.1 48.2#
 77 0.0 24.5 36.7#

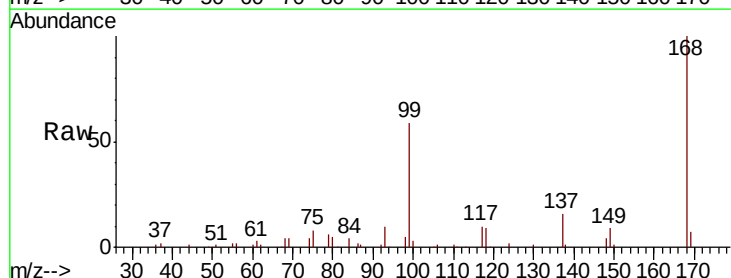


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

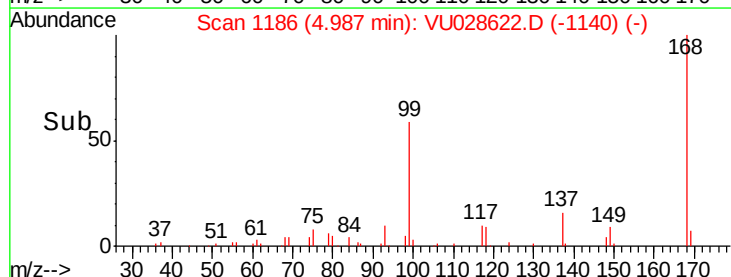
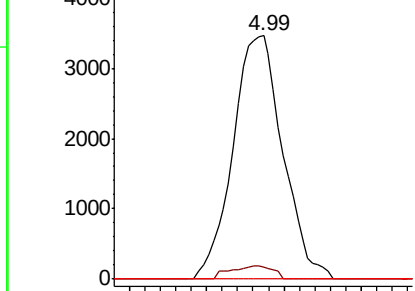


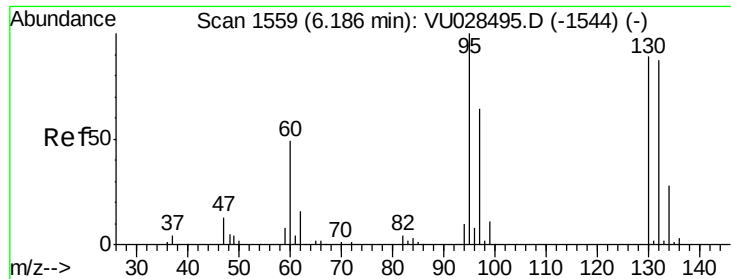
#38
 Carbon Tetrachloride
 Concen: 5.970 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028622.D
 Acq: 11 Dec 2018 21:15

Tgt Ion: 117 Resp: 7755
 Ion Ratio Lower Upper
 117 100
 119 5.0 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





#44

Trichloroethene

Concen: 3.277 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

Instrument :

MSVOA_U

ClientSampleId :

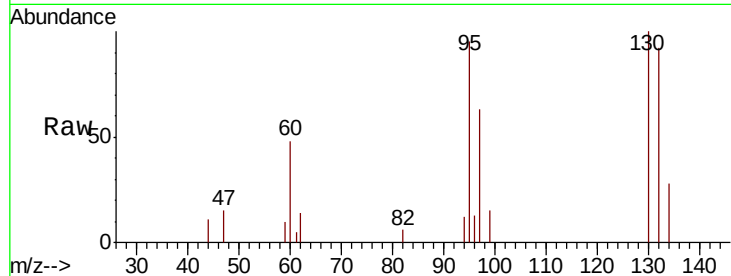
RE-131D3-20181205DL

Tot Ion:130 Resp: 3458

Ion Ratio Lower Upper

130 100

95 94.9 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.19

2000

1500

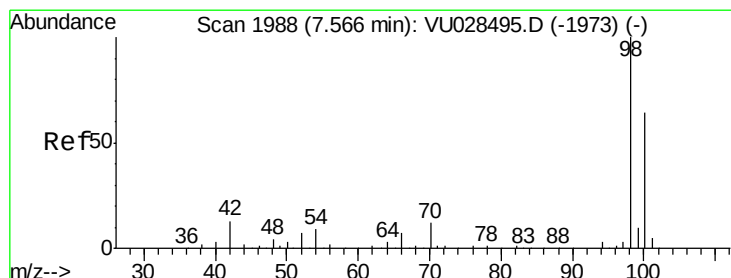
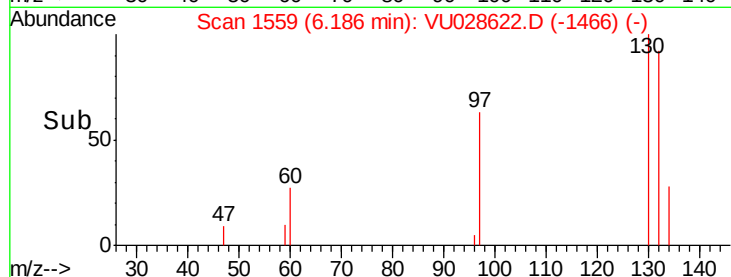
1000

500

0

Time-->

6.15 6.20 6.25



#50

Toluene-d8

Concen: 51.202 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028622.D

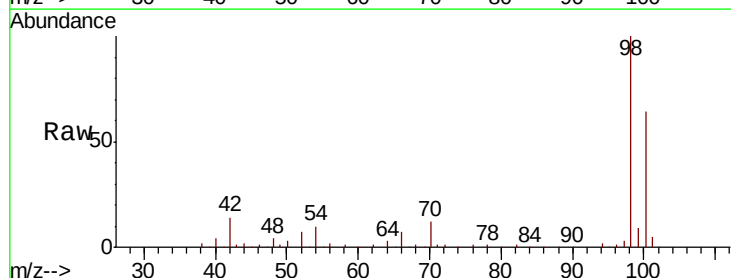
Acq: 11 Dec 2018 21:15

Tgt Ion: 98 Resp: 187714

Ion Ratio Lower Upper

98 100

100 64.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

7.57

120000

100000

80000

60000

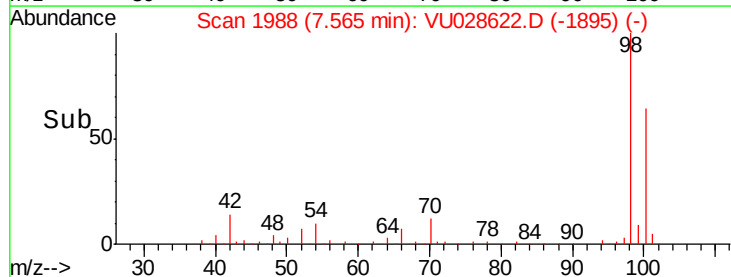
40000

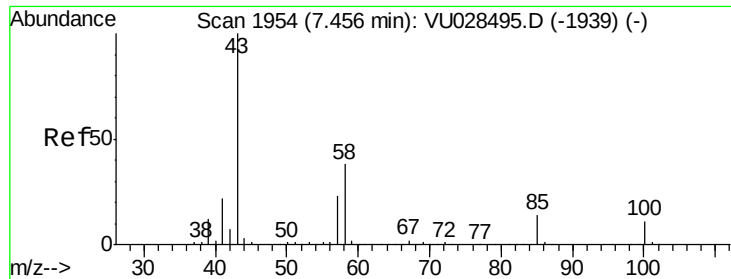
20000

0

Time-->

7.50 7.55 7.60 7.65





#51

4-Methyl-2-Pentanone

Concen: 0.455 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

Instrument :

MSVOA_U

ClientSampleId :

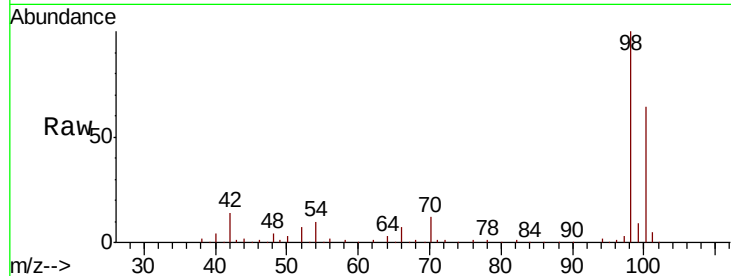
RE-131D3-20181205DL

Tot Ion: 43 Resp: 946

Ion Ratio Lower Upper

43 100

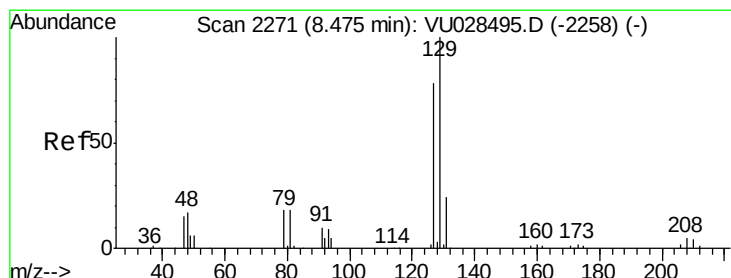
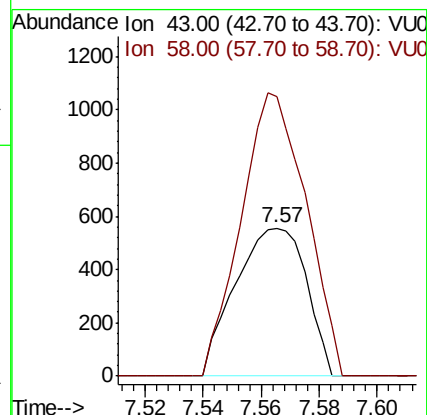
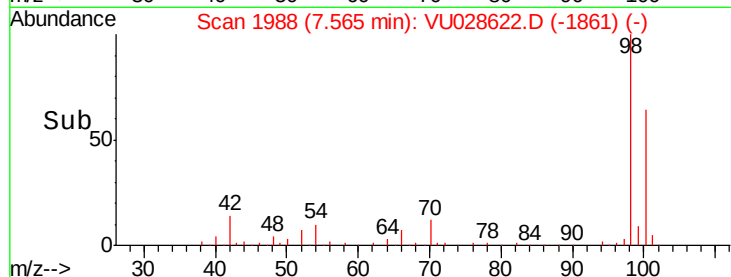
58 175.6 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)

Time-->



#60

Dibromochloromethane

Concen: 0.899 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028622.D

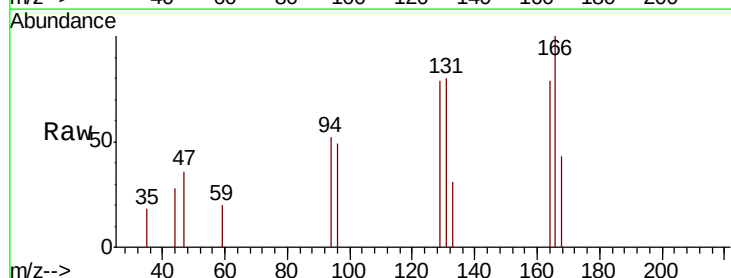
Acq: 11 Dec 2018 21:15

Tgt Ion: 129 Resp: 972

Ion Ratio Lower Upper

129 100

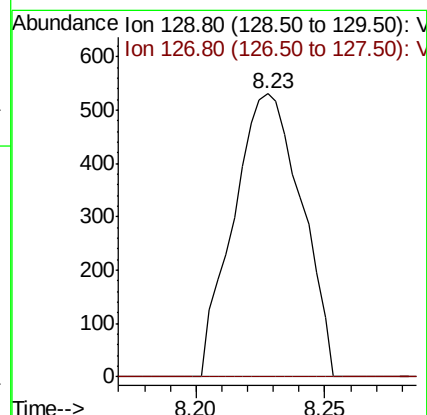
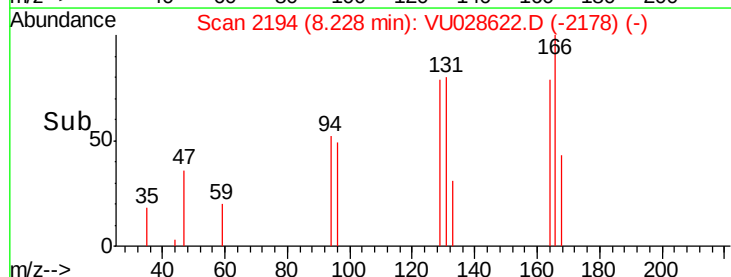
127 0.0 39.1 117.3#

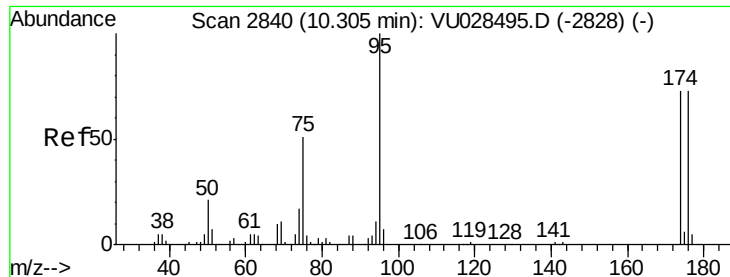


Abundance Ion 128.80 (128.50 to 129.50): VU028495.D (-2258) (-)

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

Time-->

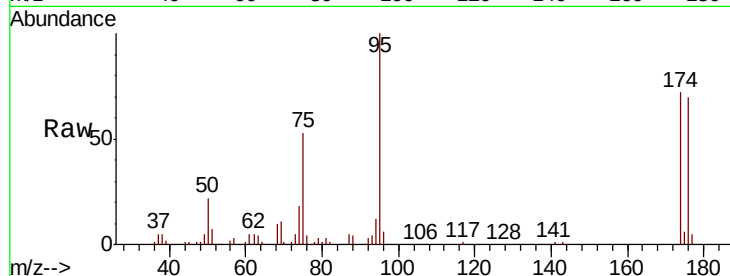




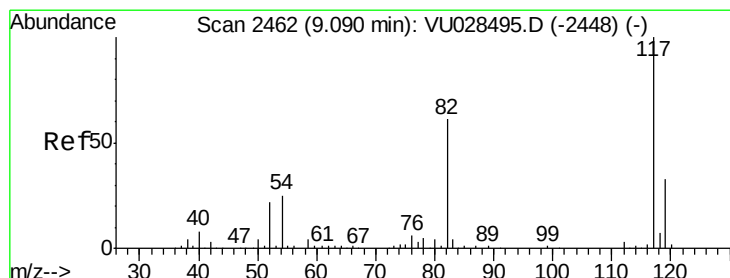
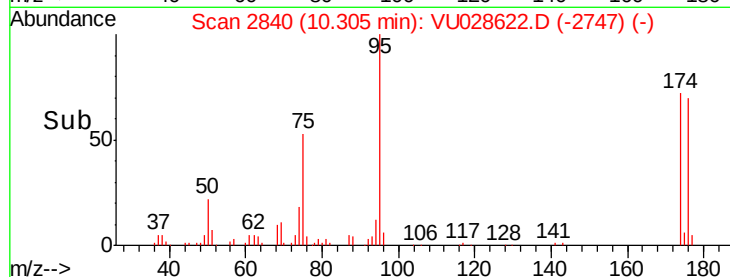
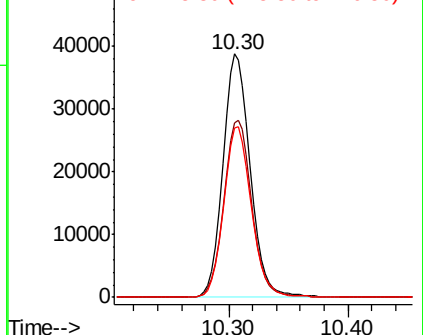
#62
4-Bromofluorobenzene
Concen: 44.959 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU028622.D
Acq: 11 Dec 2018 21:15

Instrument :
MSVOA_U
ClientSampleId :
RE-131D3-20181205DL

Tot Ion: 95 Resp: 61606
Ion Ratio Lower Upper
95 100
174 74.4 0.0 150.4
176 71.0 0.0 145.2

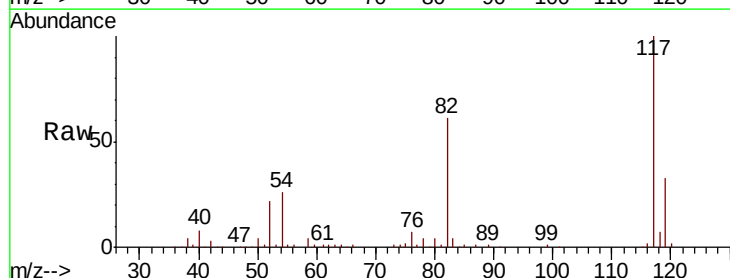


Abundance Ion 94.90 (94.60 to 95.60): VU
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

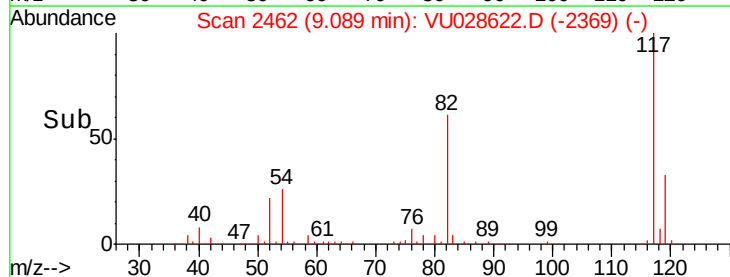
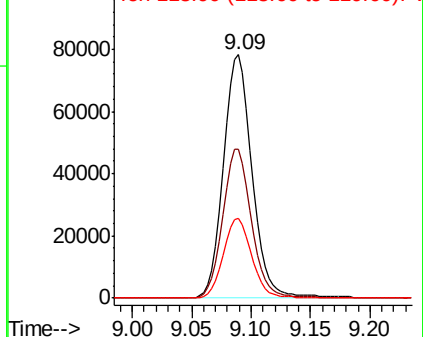


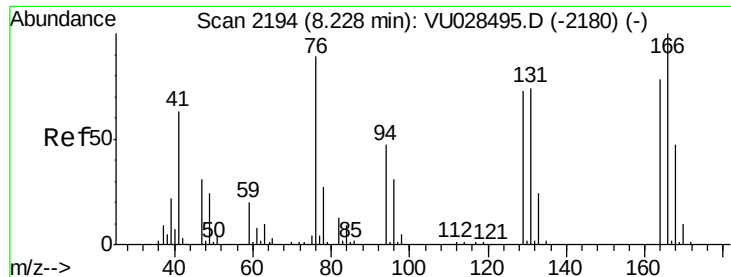
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028622.D
Acq: 11 Dec 2018 21:15

Tgt Ion: 117 Resp: 130771
Ion Ratio Lower Upper
117 100
82 61.0 48.9 73.3
119 32.6 26.2 39.4



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





#64

Tetrachloroethene

Concen: 0.996 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

Instrument :

MSVOA_U

ClientSampleId :

RE-131D3-20181205DL

Tot Ion:164 Resp: 869

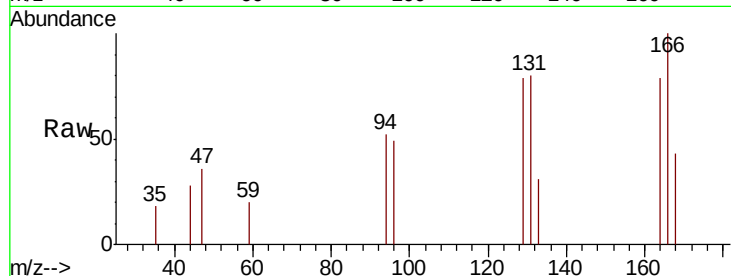
Ion Ratio Lower Upper

164 100

166 127.3 101.9 152.9

129 100.6 74.9 112.3

131 102.1 75.4 113.0

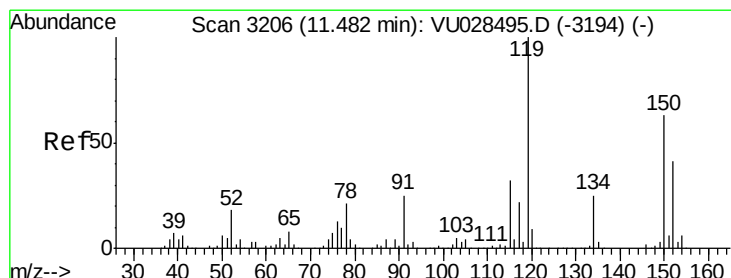
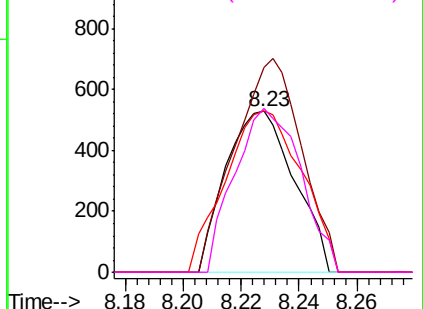
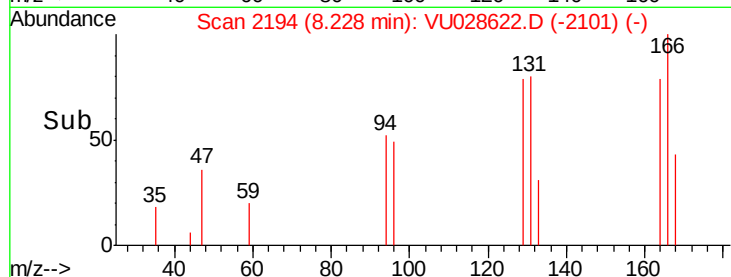


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

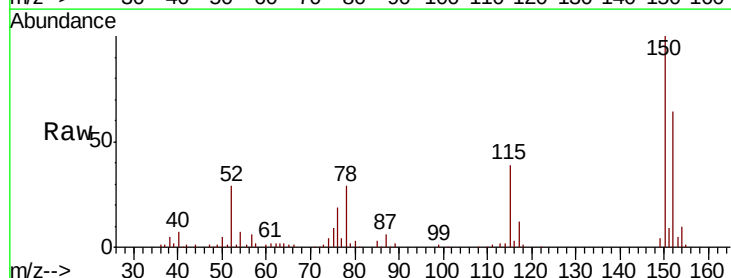
Tgt Ion:152 Resp: 50684

Ion Ratio Lower Upper

152 100

115 60.9 42.7 128.1

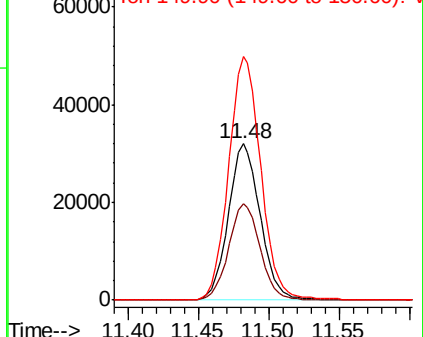
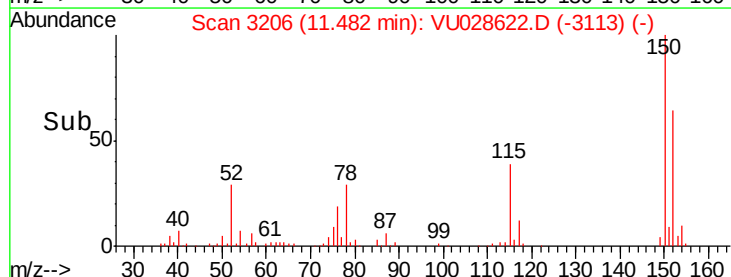
150 157.4 0.0 346.0

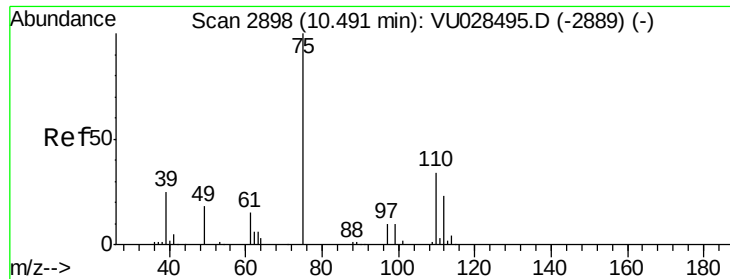


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.675 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

Instrument :

MSVOA_U

ClientSampleId :

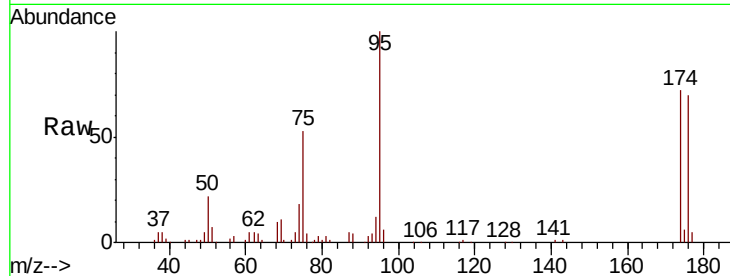
RE-131D3-20181205DL

Tot Ion: 75 Resp: 33229

Ion Ratio Lower Upper

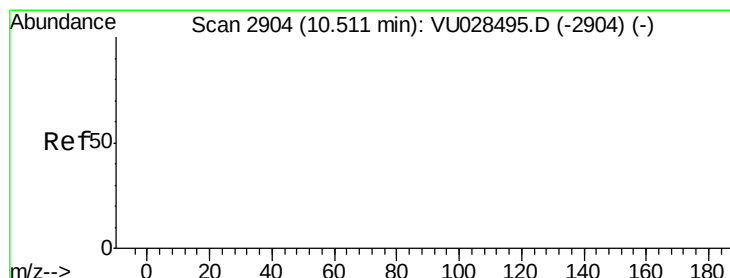
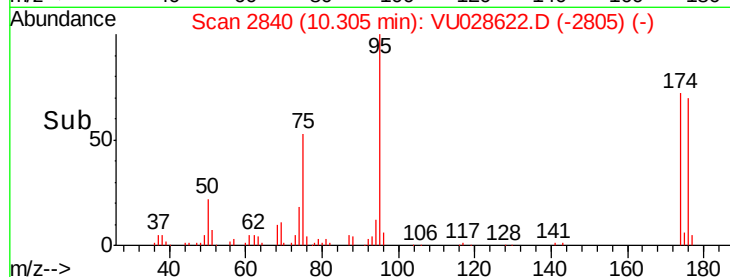
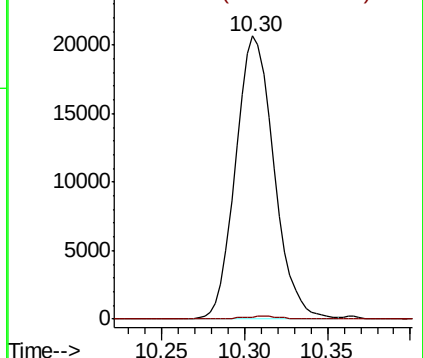
75 100

77 0.9 20.8 62.4#



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: 62.989 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028622.D

Acq: 11 Dec 2018 21:15

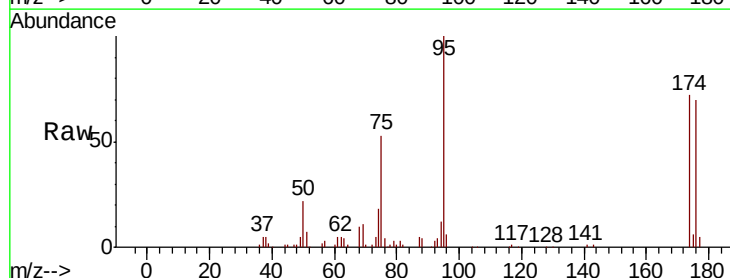
Tgt Ion: 75 Resp: 33229

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

