

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112118\
 Data File : VN052452.D
 Acq On : 21 Nov 2018 21:23
 Operator : MD\SY
 Sample : J6003-11 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 22 00:01:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	311698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	526443	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	443263	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158123	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	240034	54.53	ug/l	0.00
Spiked Amount			Recovery	=	109.06%	
35) Dibromofluoromethane	7.59	113	174499	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	
50) Toluene-d8	10.09	98	663614	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	12.40	95	197307	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	

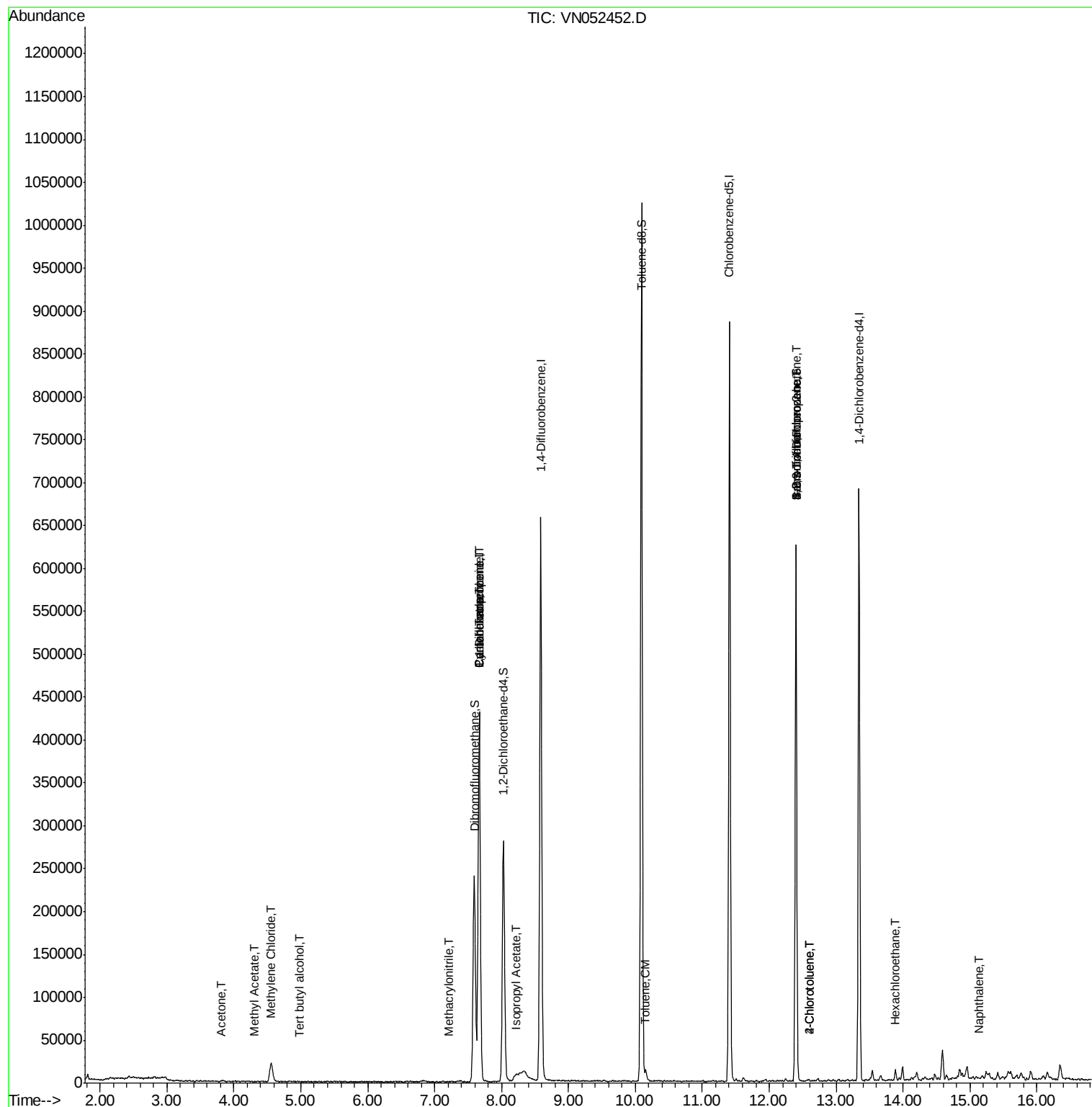
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.99	59	76	0.327	ug/l #	72
16) Acetone	3.82	43	819	0.676	ug/l #	85
18) Methyl Acetate	4.32	43	542	0.590	ug/l #	57
20) Methylene Chloride	4.56	84	13426	2.982	ug/l	97
31) Cyclohexane	7.66	56	9663	0.392	ug/l #	32
36) 1,1-Dichloropropene	7.67	75	30518	5.784	ug/l #	51
38) Carbon Tetrachloride	7.67	117	35870	7.399	ug/l #	15
41) Methacrylonitrile	7.21	41	78	3.729	ug/l #	100
43) Isopropyl Acetate	8.23	43	10512	1.423	ug/l #	67
52) Toluene	10.15	92	4183	0.464	ug/l	99
71) Bromoform	12.40	173	739	0.392	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	115503	43.049	ug/l #	100
79) 2-Chlorotoluene	12.59	91	2306	0.265	ug/l #	41
81) trans-1,4-Dichloro-2-buten	12.40	75	115503	139.625	ug/l #	5
82) 4-Chlorotoluene	12.59	91	2306	0.259	ug/l #	41
90) Hexachloroethane	13.89	117	758	0.416	ug/l #	14
95) Naphthalene	15.14	128	875	2.753	ug/l #	79

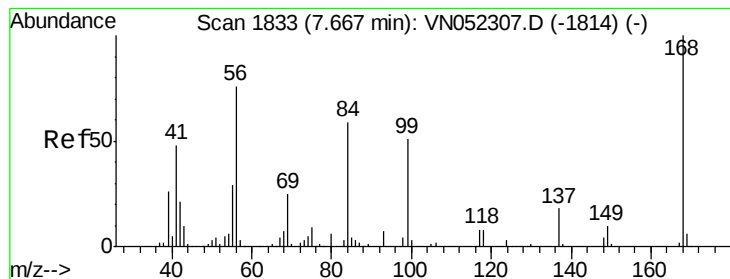
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 22 00:01:52 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Instrument :

MSVOA_N

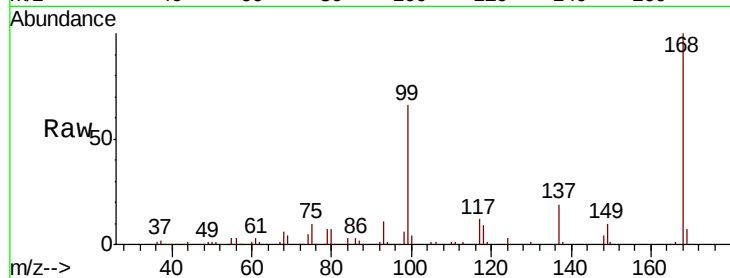
ClientSampled :

Tot Ion:168 Resp: 311698

Ion Ratio Lower Upper

168 100

99 66.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

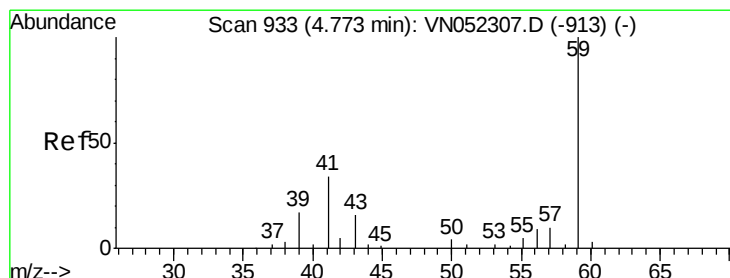
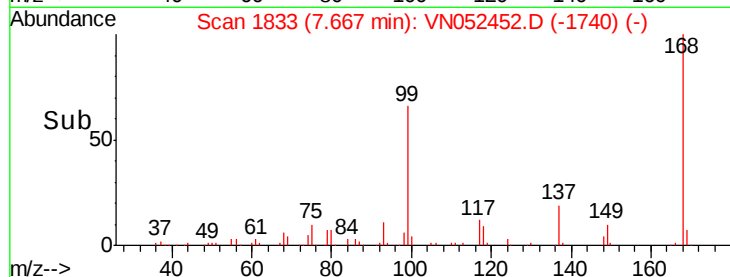
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.327 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.21 min

Lab File: VN052452.D

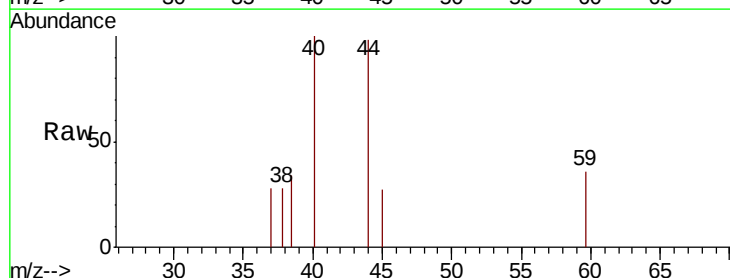
Acq: 21 Nov 2018 21:23

Tgt Ion: 59 Resp: 76

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)

4.99

250

200

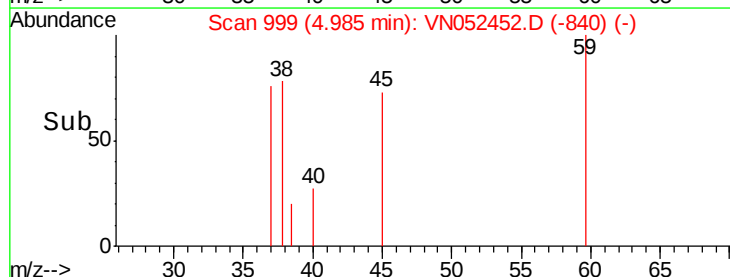
150

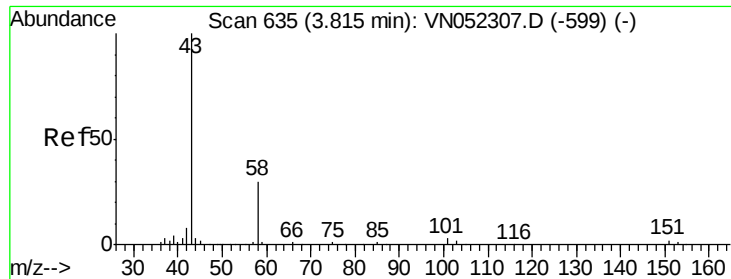
100

50

0

Time-->





#16

Acetone

Concen: 0.676 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Instrument :

MSVOA_N

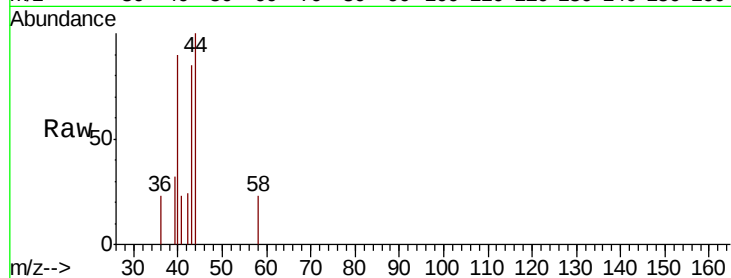
ClientSampled :

Tot Ion: 43 Resp: 819

Ion Ratio Lower Upper

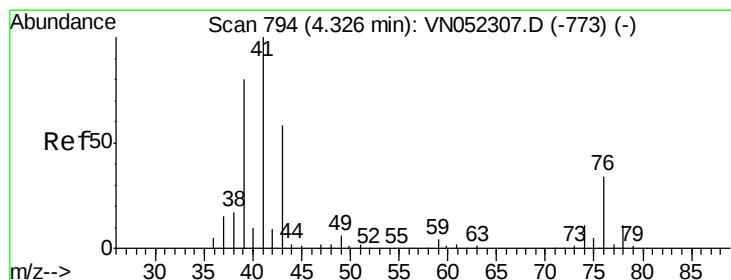
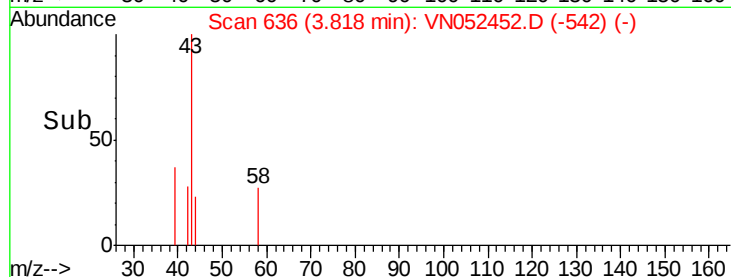
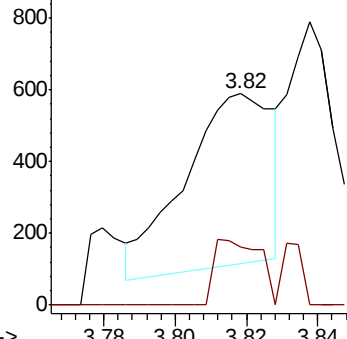
43 100

58 38.5 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.590 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.01 min

Lab File: VN052452.D

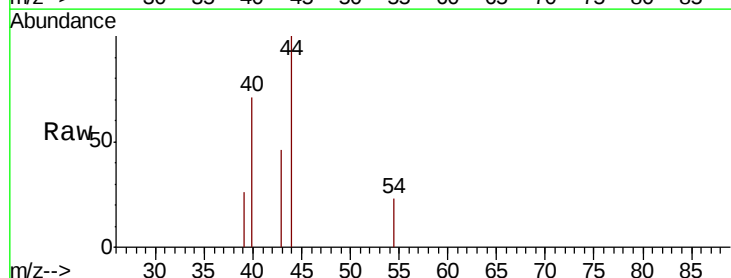
Acq: 21 Nov 2018 21:23

Tgt Ion: 43 Resp: 542

Ion Ratio Lower Upper

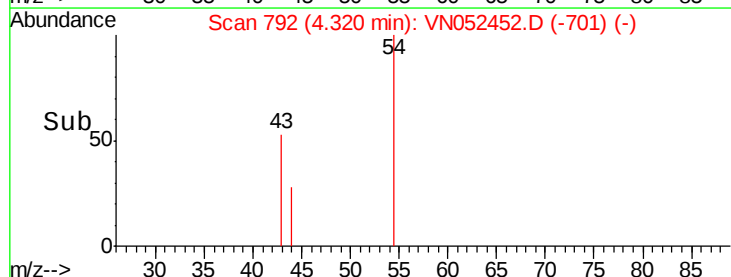
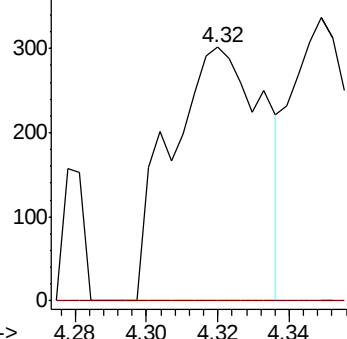
43 100

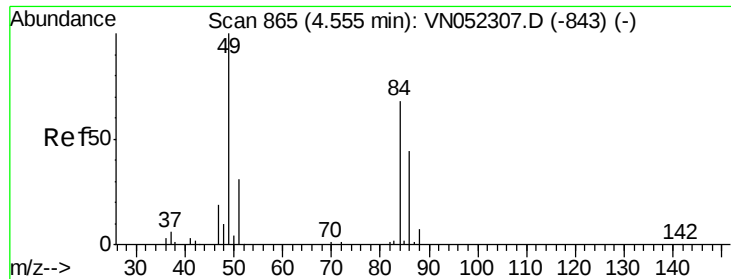
74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

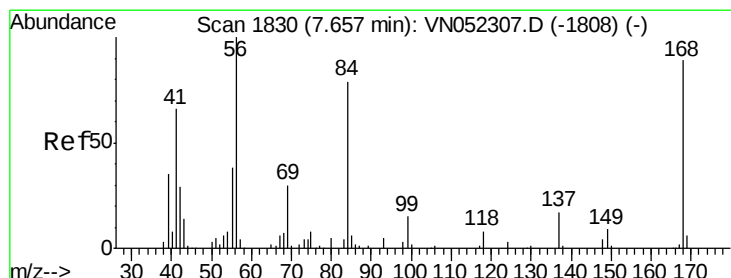
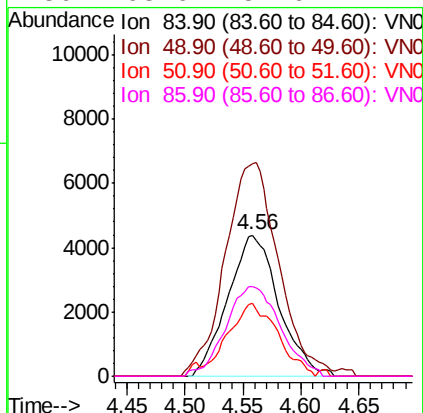
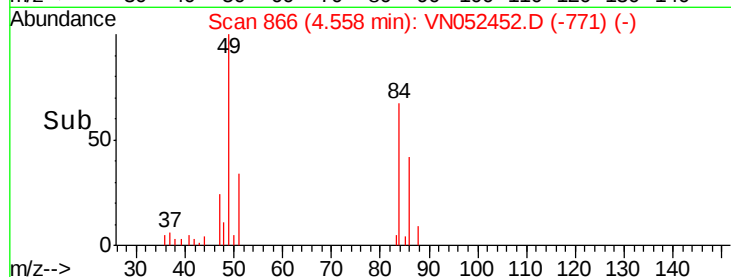
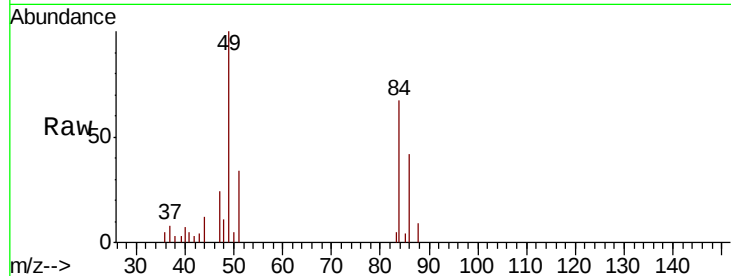




#20
Methvlene Chloride
Concen: 2.982 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052452.D
Acq: 21 Nov 2018 21:23

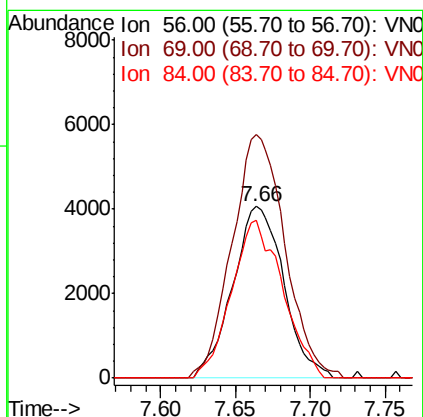
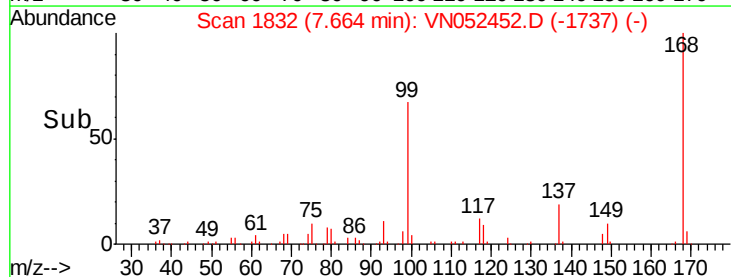
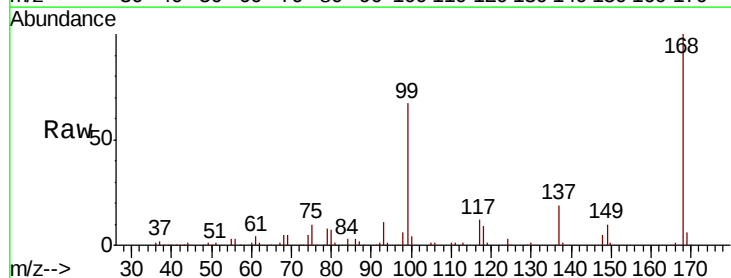
Instrument :
MSVOA_N
ClientSampled :

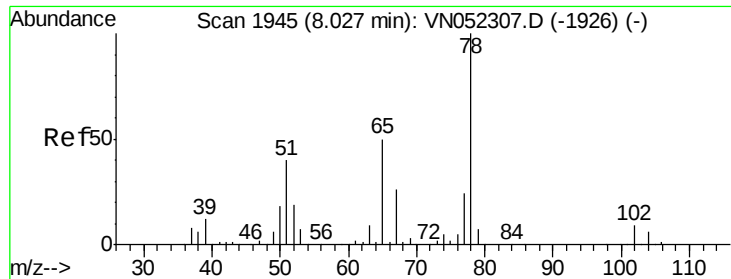
Tot Ion: 84 Resp: 13426
Ion Ratio Lower Upper
84 100
49 145.8 118.2 177.2
51 51.5 36.1 54.1
86 63.6 51.6 77.4



#31
Cyclohexane
Concen: 0.392 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052452.D
Acq: 21 Nov 2018 21:23

Tgt Ion: 56 Resp: 9663
Ion Ratio Lower Upper
56 100
69 141.9 23.8 35.8#
84 91.8 63.0 94.6

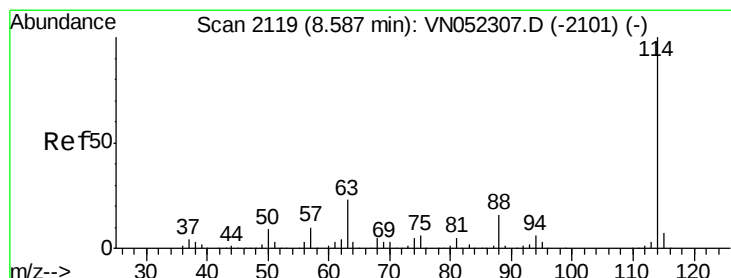
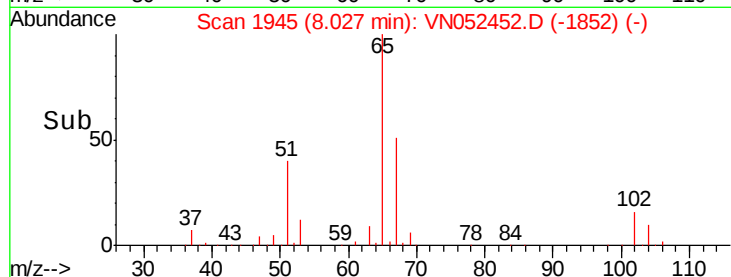
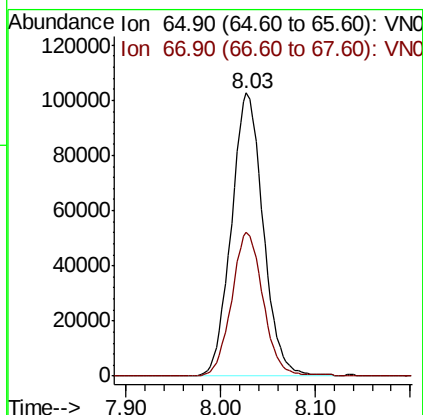
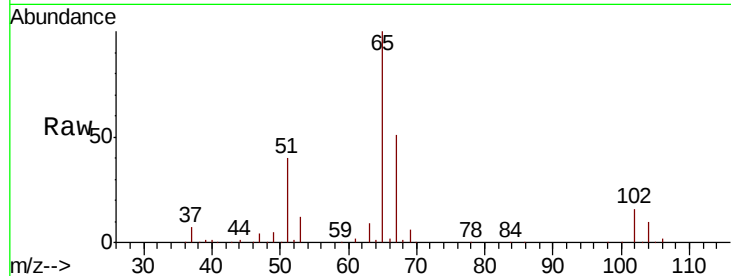




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052452.D
 Acq: 21 Nov 2018 21:23

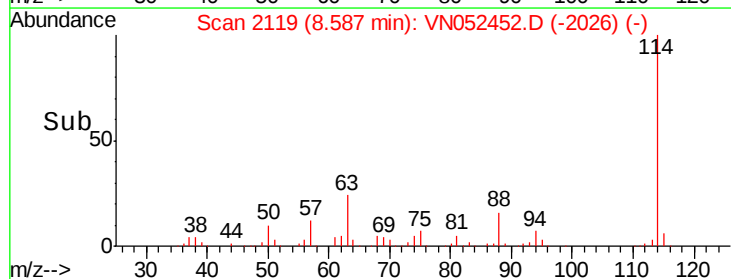
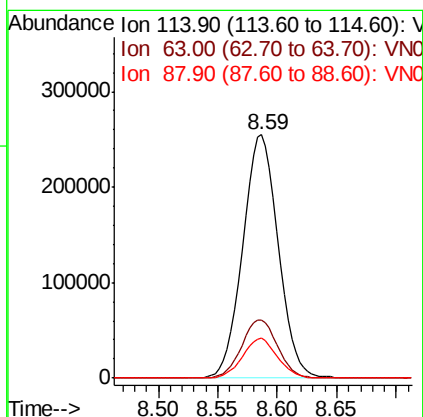
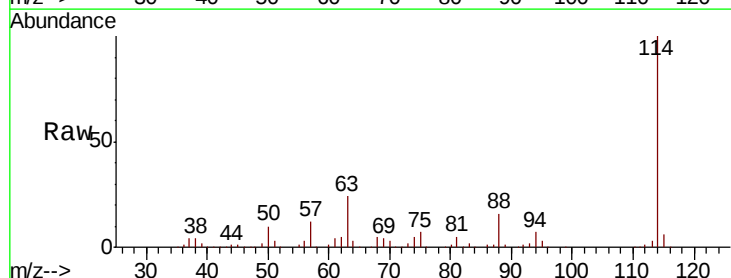
Instrument :
 MSVOA_N
 ClientSampled :

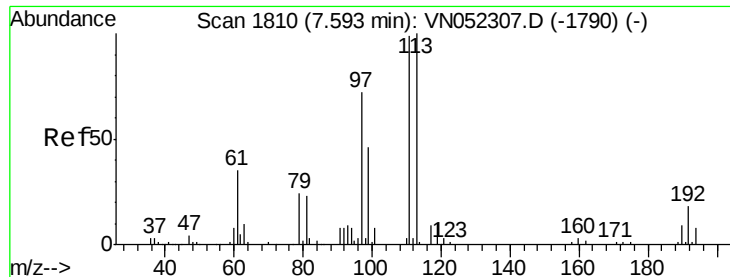
Tot Ion: 65 Resp: 240034
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052452.D
 Acq: 21 Nov 2018 21:23

Tgt Ion: 114 Resp: 526443
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 45.4
 88 16.3 0.0 31.2

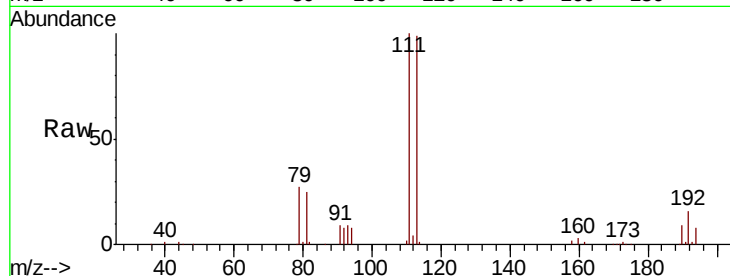




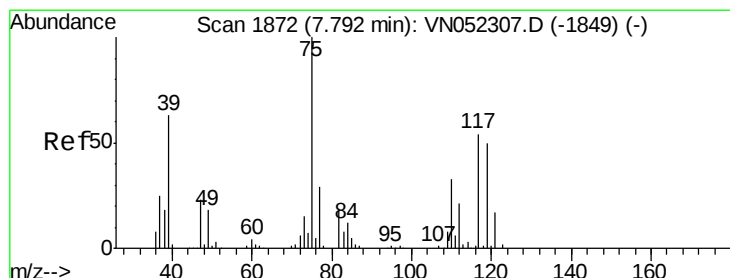
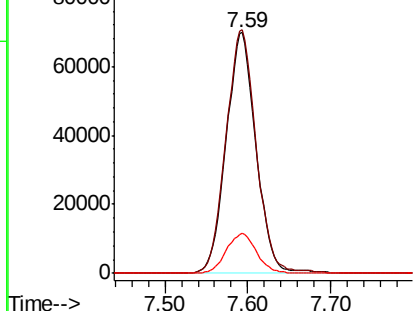
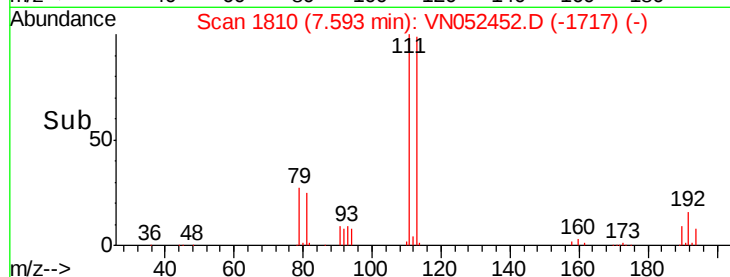
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052452.D
 Acq: 21 Nov 2018 21:23

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 174499
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.0 121.6
 192 16.8 13.8 20.6

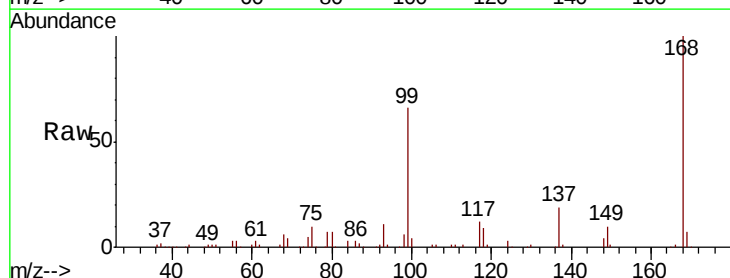


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

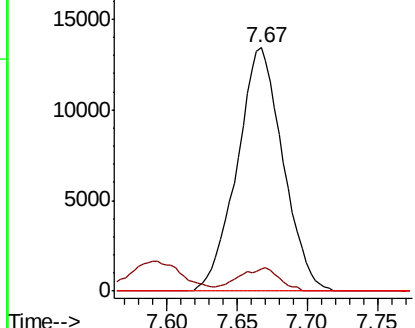
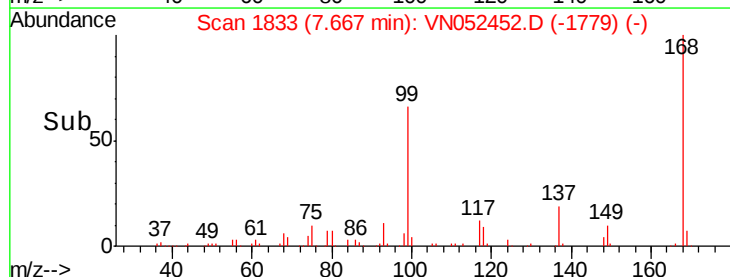


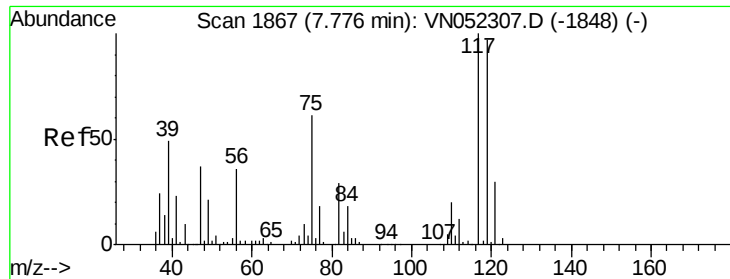
#36
 1,1-Dichloropropene
 Concen: 5.784 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052452.D
 Acq: 21 Nov 2018 21:23

Tgt Ion: 75 Resp: 30518
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.5 49.5#
 77 0.0 24.2 36.2#



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





#38

Carbon Tetrachloride

Concen: 7.399 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Instrument :

MSVOA_N

ClientSampleId :

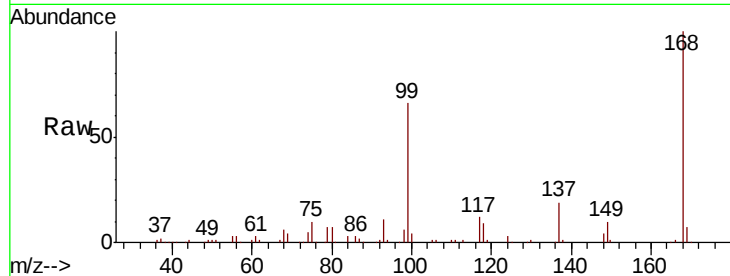
Tot Ion:117 Resp: 35870

Ion Ratio Lower Upper

117 100

119 4.2 77.4 116.0#

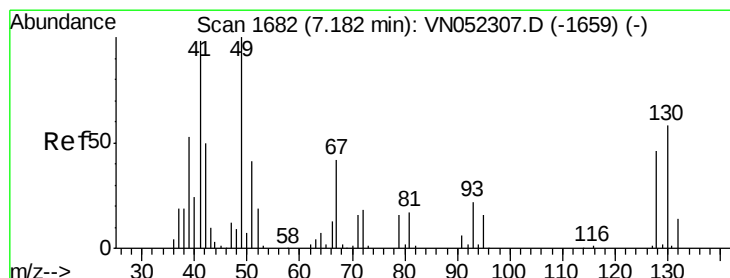
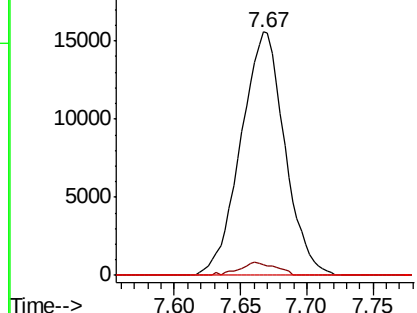
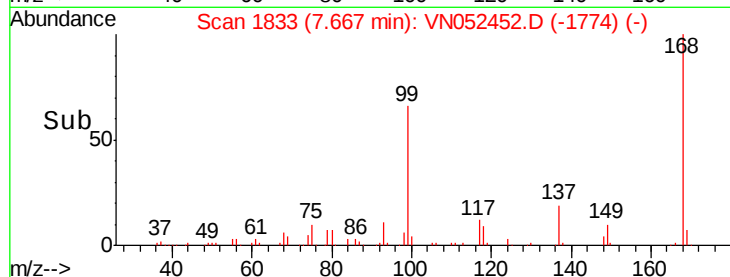
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 3.729 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.04 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Tgt Ion: 41 Resp: 78

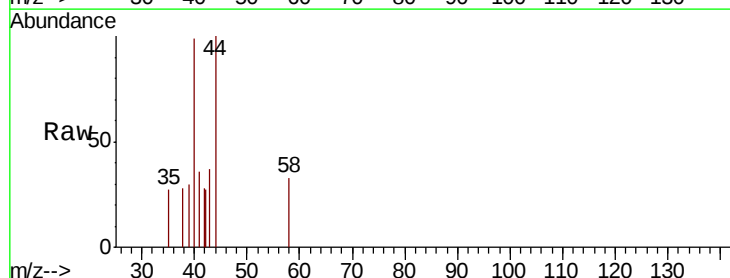
Ion Ratio Lower Upper

41 100

39 421.8 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

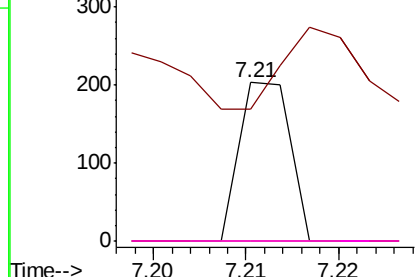
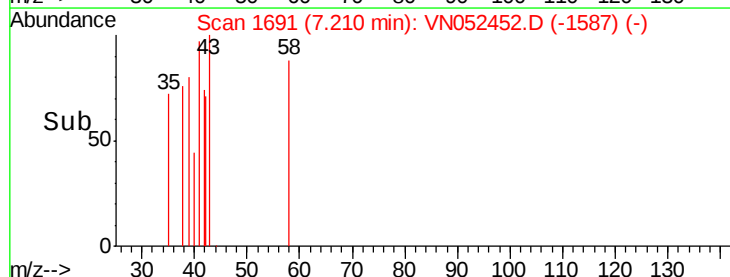


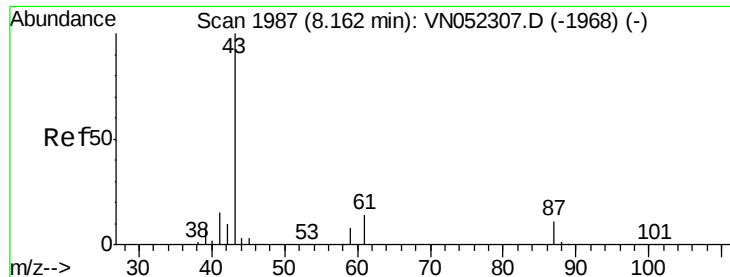
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.423 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.07 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Instrument :

MSVOA_N

ClientSampleId :

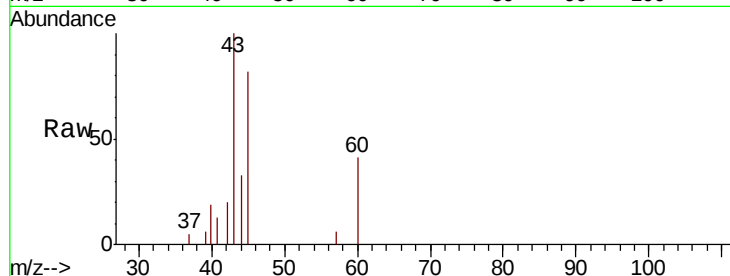
Tot Ion: 43 Resp: 10512

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

87 0.0 8.3 12.5#

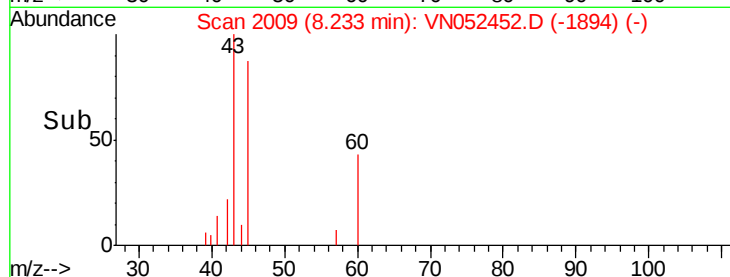


Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052307.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052307.D (-1968) (-)

Time-->



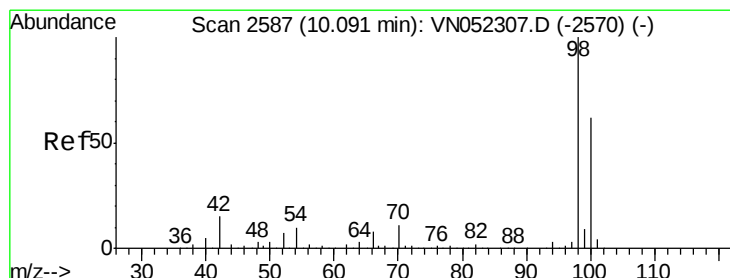
Abundance

Ion 43.00 (42.70 to 43.70): VN052452.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN052452.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN052452.D (-1894) (-)

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052452.D

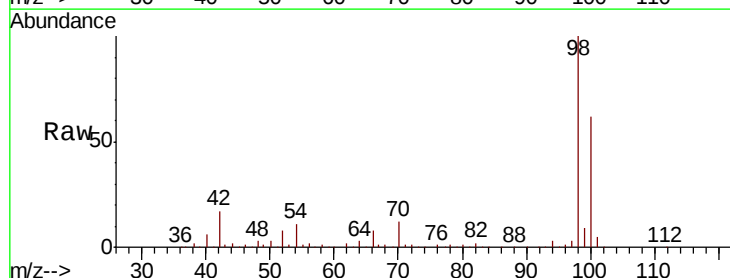
Acq: 21 Nov 2018 21:23

Tgt Ion: 98 Resp: 663614

Ion Ratio Lower Upper

98 100

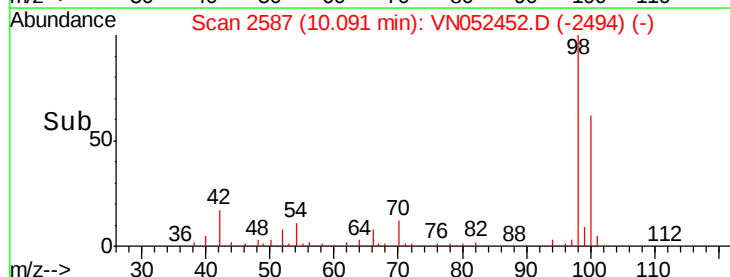
100 62.4 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

Time-->

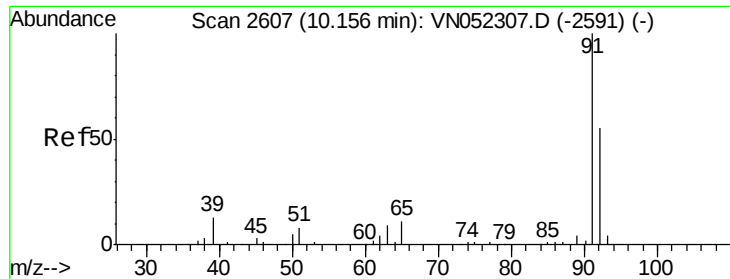


Abundance

Ion 98.00 (97.70 to 98.70): VN052452.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN052452.D (-2494) (-)

Time-->



#52

Toluene

Concen: 0.464 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Instrument :

MSVOA_N

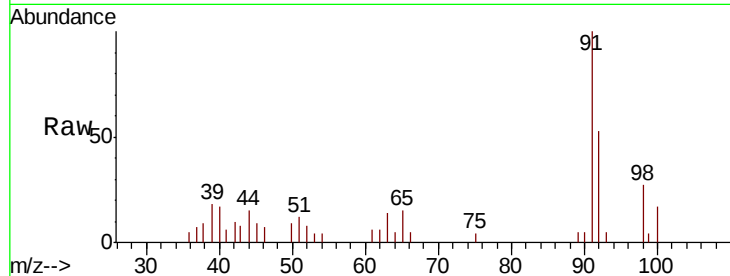
ClientSampleId :

Tot Ion: 92 Resp: 4183

Ion Ratio Lower Upper

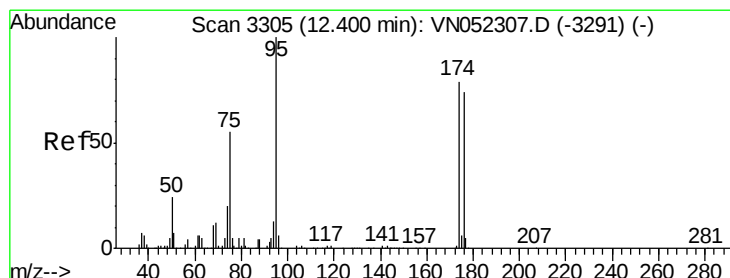
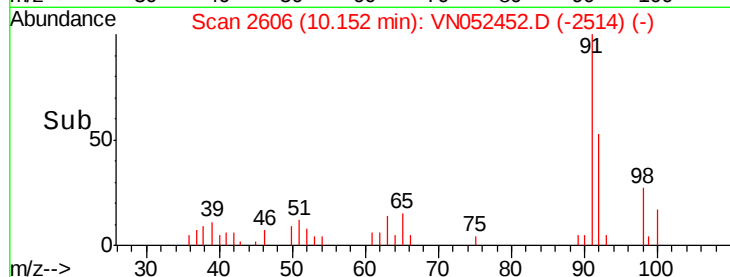
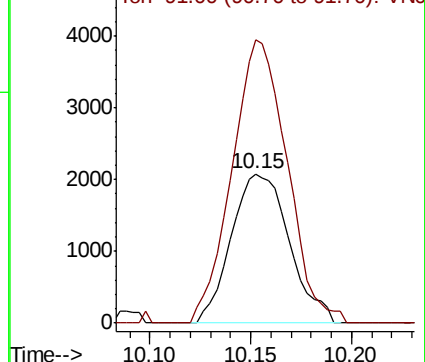
92 100

91 180.4 143.6 215.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

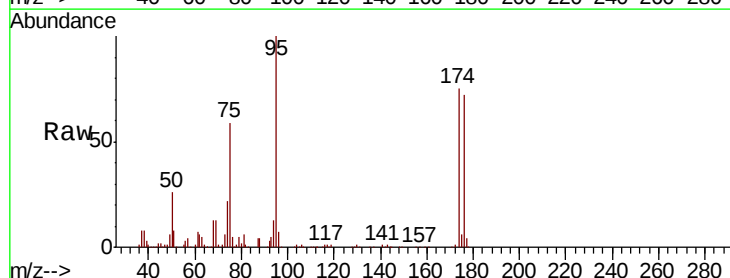
Tgt Ion: 95 Resp: 197307

Ion Ratio Lower Upper

95 100

174 74.8 0.0 156.0

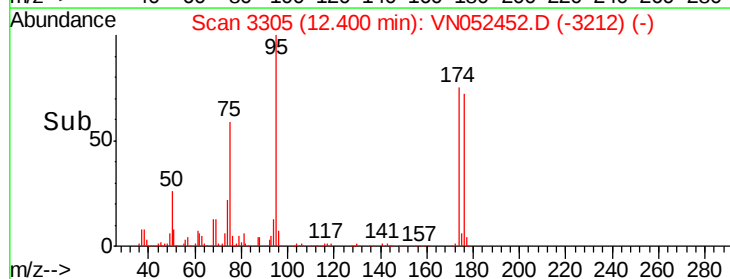
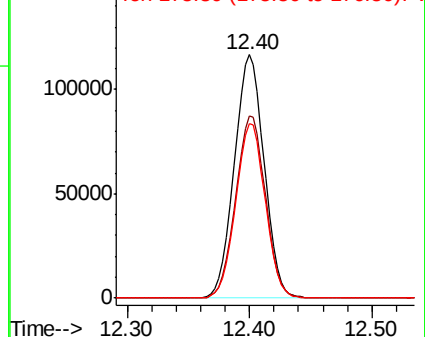
176 71.1 0.0 148.4

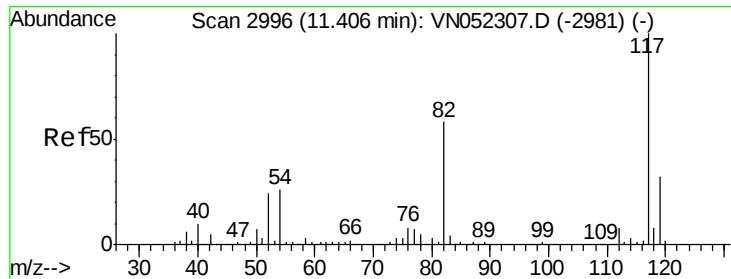


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

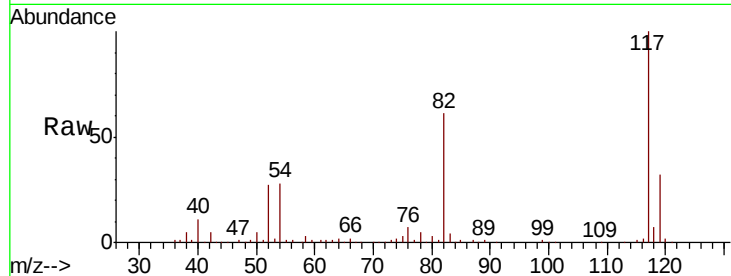




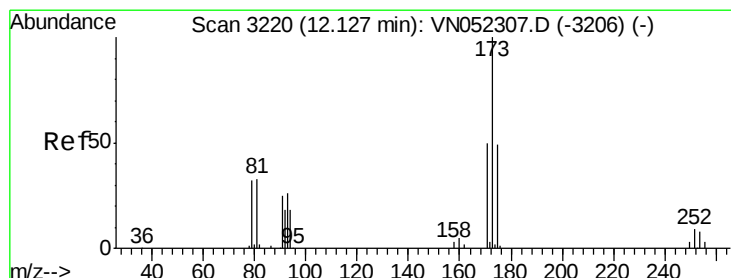
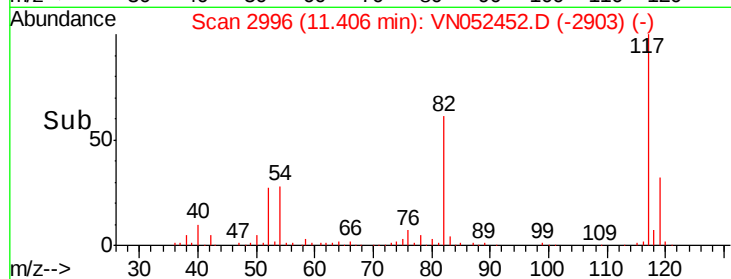
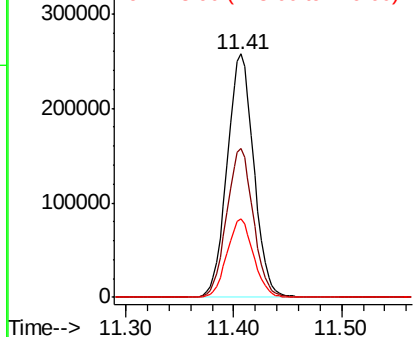
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052452.D
Acq: 21 Nov 2018 21:23

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 443263
Ion Ratio Lower Upper
117 100
82 61.0 46.5 69.7
119 32.4 25.7 38.5

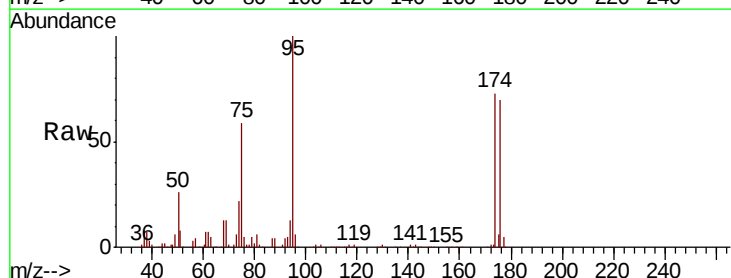


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

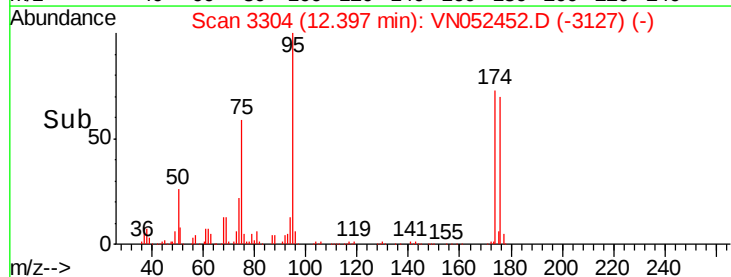
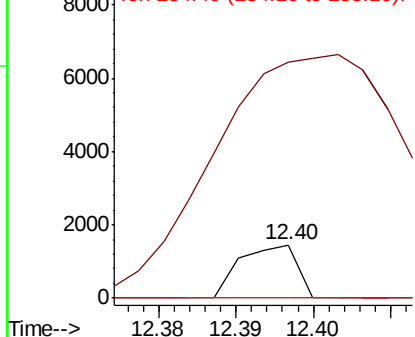


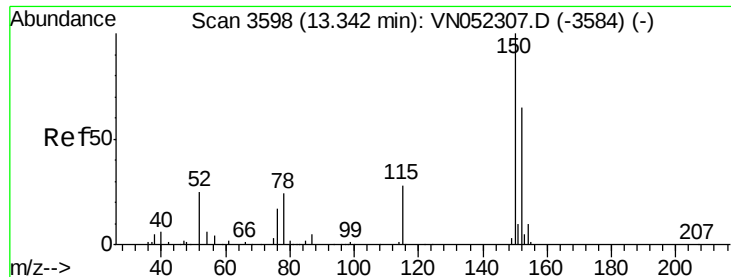
#71
Bromoform
Concen: 0.392 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN052452.D
Acq: 21 Nov 2018 21:23

Tgt Ion:173 Resp: 739
Ion Ratio Lower Upper
173 100
175 1452.8 25.0 75.0#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Instrument :

MSVOA_N

ClientSampled :

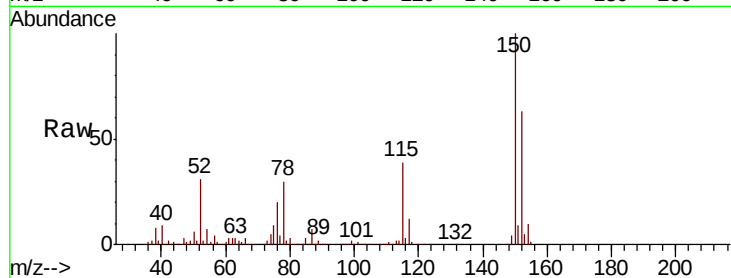
Tot Ion:152 Resp: 158123

Ion Ratio Lower Upper

152 100

115 61.1 30.3 91.0

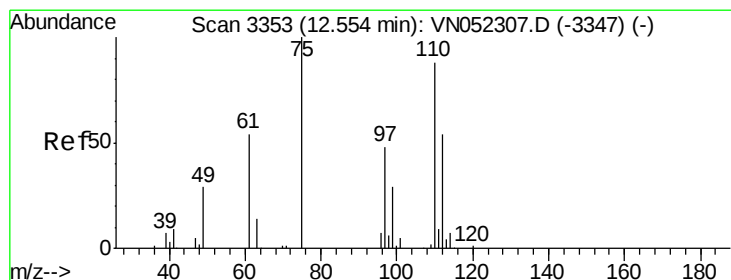
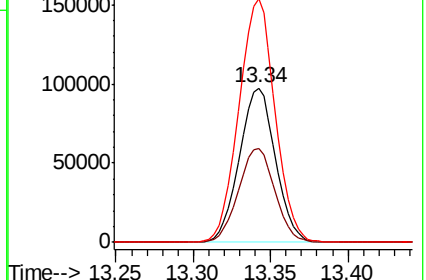
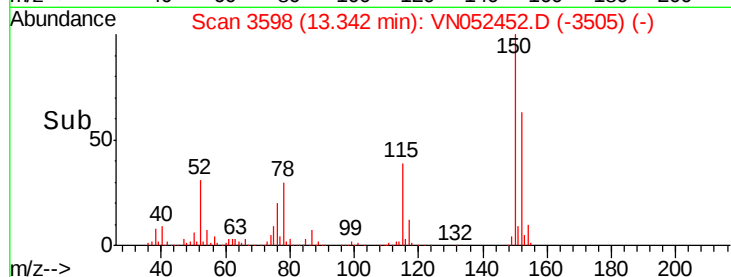
150 157.5 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 43.049 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052452.D

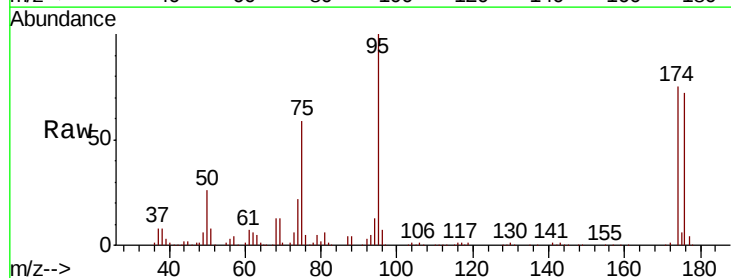
Acq: 21 Nov 2018 21:23

Tgt Ion: 75 Resp: 115503

Ion Ratio Lower Upper

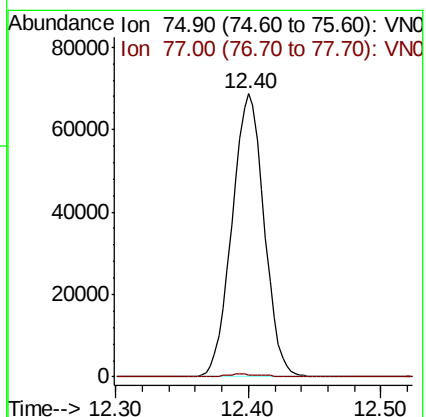
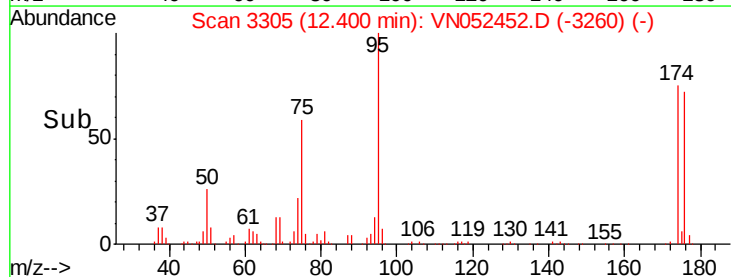
75 100

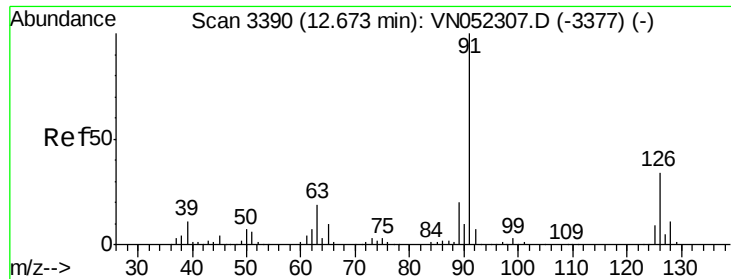
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

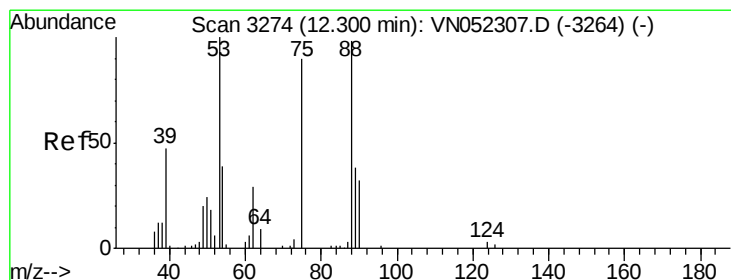
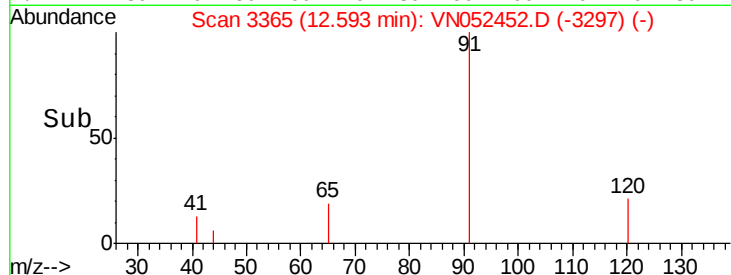
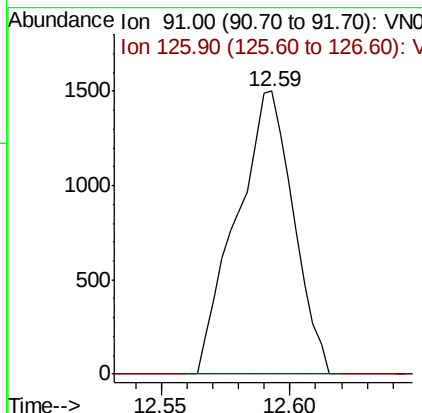
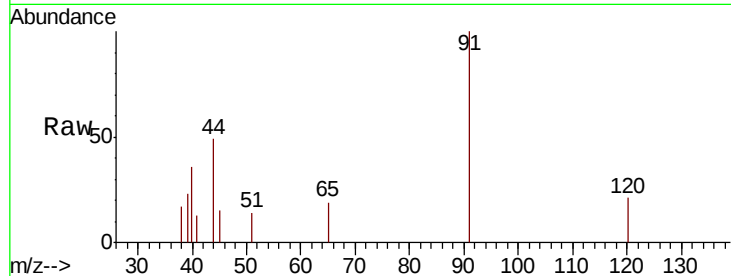




#79
 2-Chlorotoluene
 Concen: 0.265 ug/l
 RT: 12.59 min Scan# 3365
 Delta R.T. -0.08 min
 Lab File: VN052452.D
 Acq: 21 Nov 2018 21:23

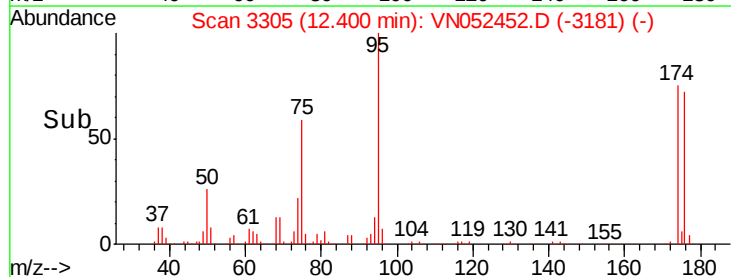
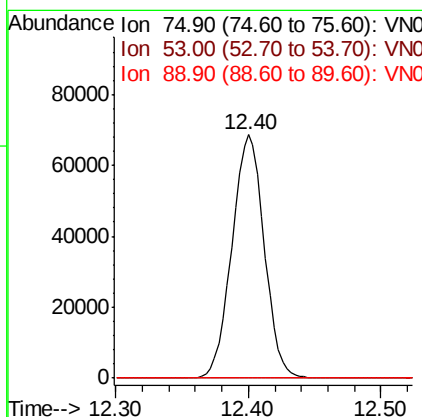
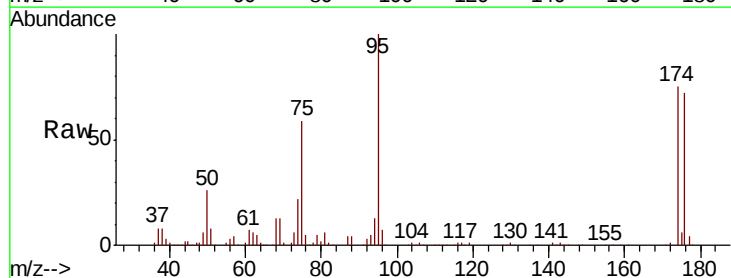
Instrument :
 MSVOA_N
 ClientSampleId :

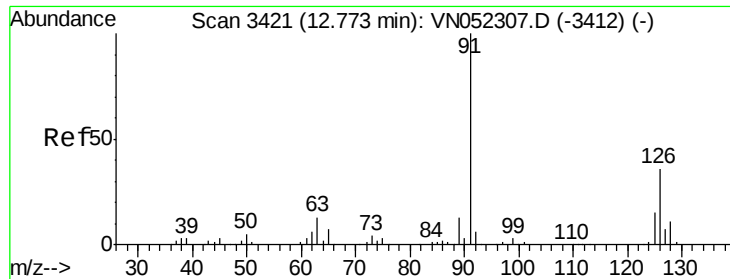
Tot Ion: 91 Resp: 2306
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.0 51.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.625 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052452.D
 Acq: 21 Nov 2018 21:23

Tgt Ion: 75 Resp: 115503
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.2 135.2#
 89 0.0 35.4 53.0#

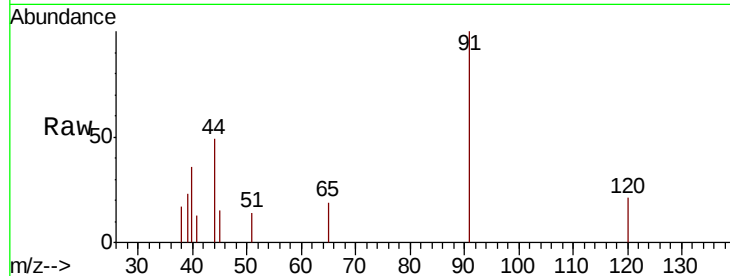




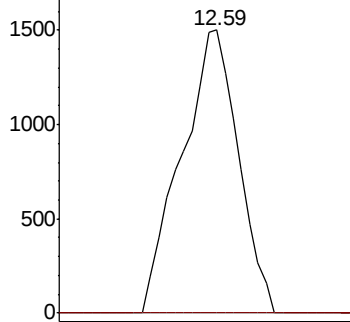
#82
4-Chlorotoluene
Concen: 0.259 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. -0.18 min
Lab File: VN052452.D
Acq: 21 Nov 2018 21:23

Instrument :
MSVOA_N
ClientSampleId :

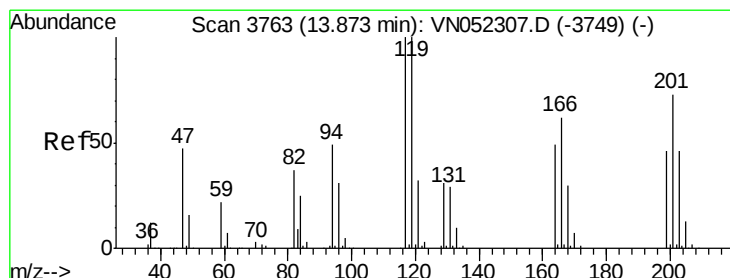
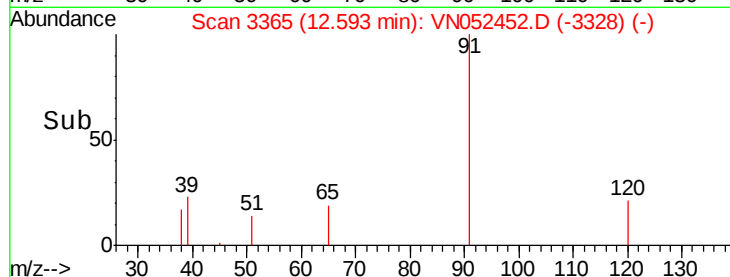
Tot Ion: 91 Resp: 2306
Ion Ratio Lower Upper
91 100
126 0.0 17.0 50.9#



Abundance Ion 91.00 (90.70 to 91.70): VN052307.D (-3412) (-)
Ion 125.90 (125.60 to 126.60): VN052307.D (-3412) (-)

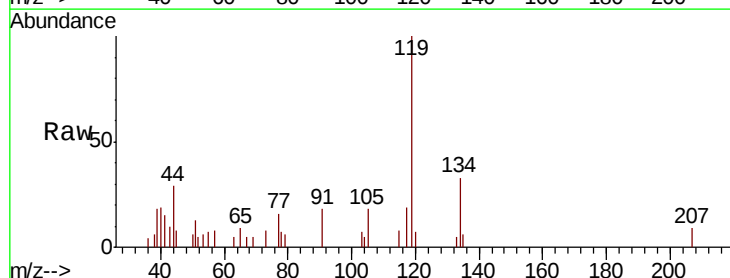


Time--> 12.55 12.60

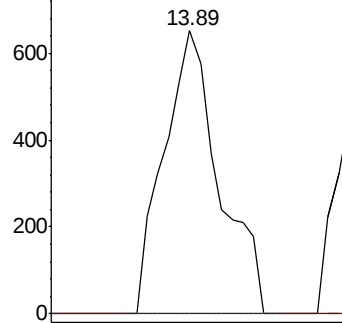


#90
Hexachloroethane
Concen: 0.416 ug/l
RT: 13.89 min Scan# 3767
Delta R.T. 0.01 min
Lab File: VN052452.D
Acq: 21 Nov 2018 21:23

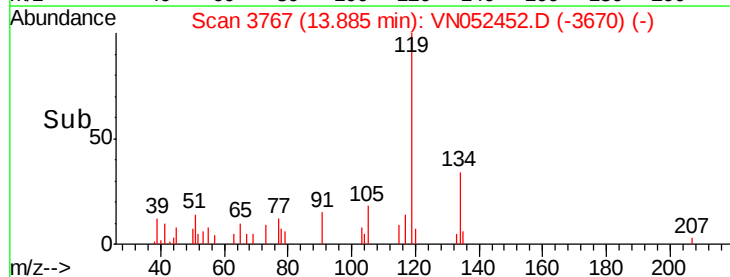
Tgt Ion: 117 Resp: 758
Ion Ratio Lower Upper
117 100
201 0.0 35.3 105.9#

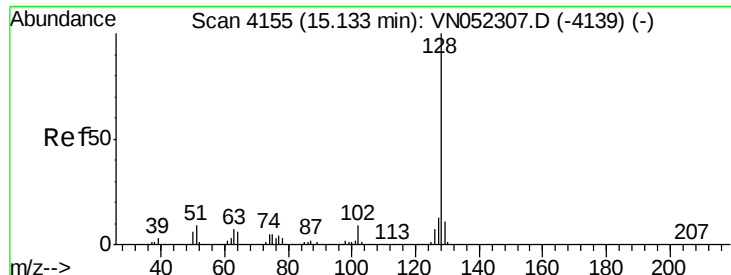


Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-3749) (-)
Ion 200.70 (200.40 to 201.40): VN052307.D (-3749) (-)



Time--> 13.85 13.90





#95

Naphthalene

Concen: 2.753 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

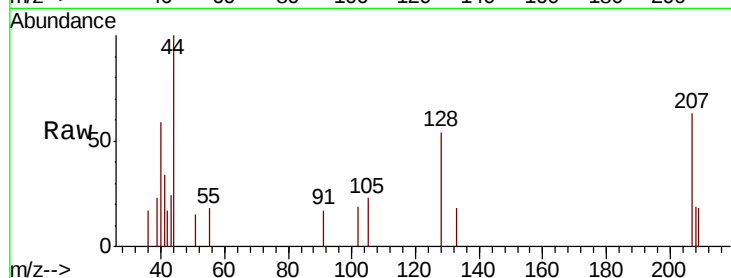
Lab File: VN052452.D

Acq: 21 Nov 2018 21:23

Instrument :

MSVOA_N

ClientSampleId :



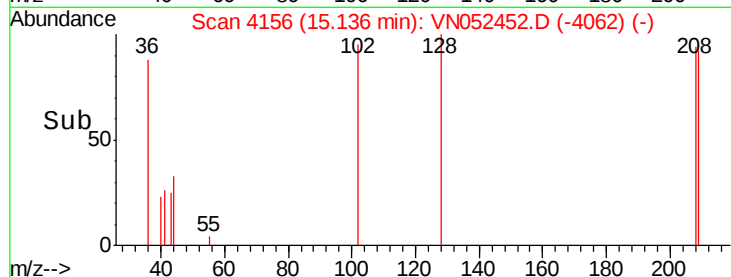
Tot Ion:128 Resp: 875

Ion Ratio Lower Upper

128 100

127 7.3 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

