

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042719\
 Data File : VN055268.D
 Acq On : 26 Apr 2019 11:53
 Operator : JC/SP
 Sample : K2553-04
 Misc : 5.94g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200051

Quant Time: Apr 27 01:57:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	327596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	573265	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	516533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182852	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	228455	51.52	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.04%	
35) Dibromofluoromethane	7.59	113	178445	45.82	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.64%	
50) Toluene-d8	10.09	98	701081	48.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.40	95	233694	51.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.28%	

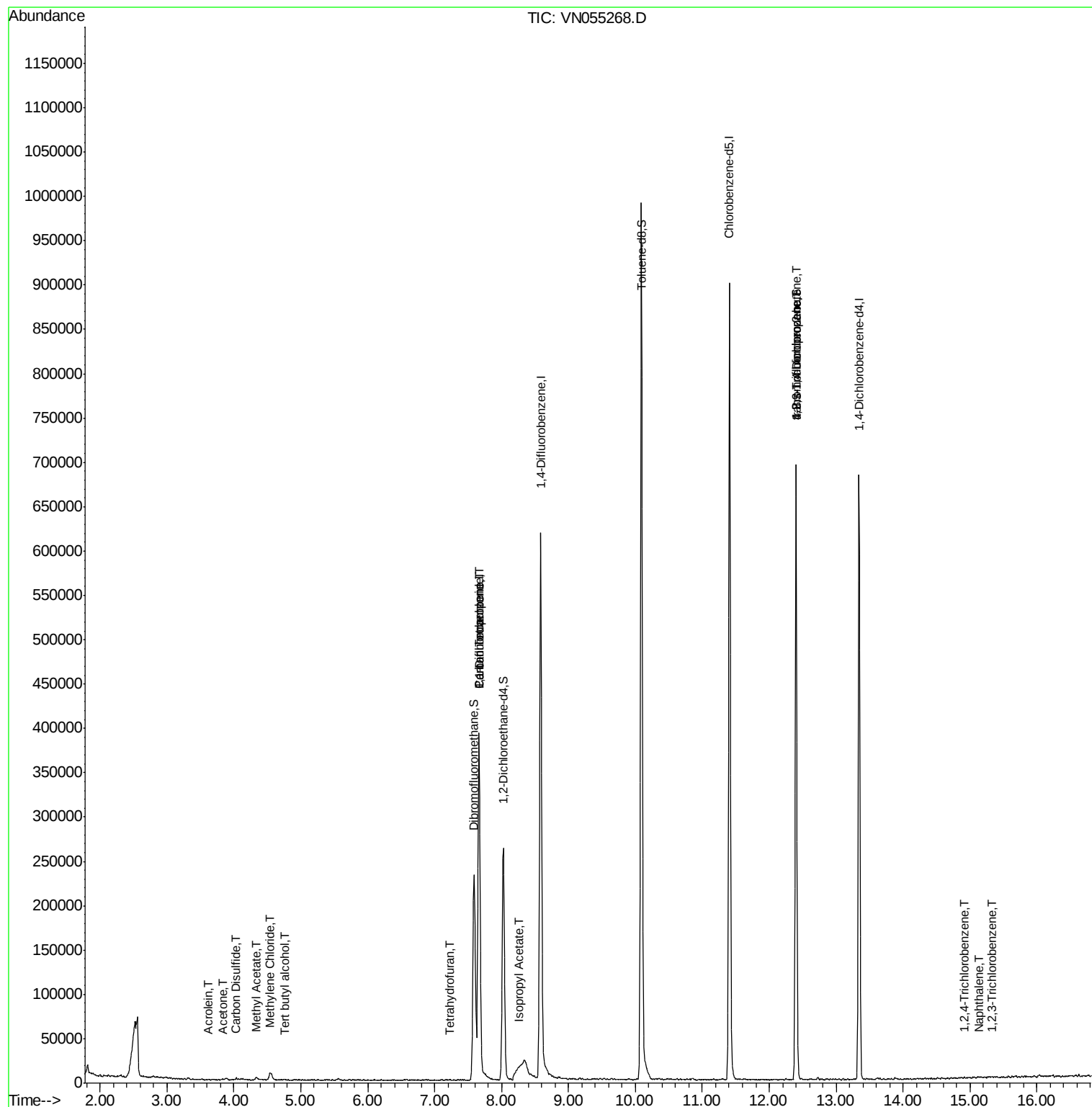
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	143	0.552	ug/l #	71
13) Acrolein	3.60	56	29	9.581	ug/l #	14
16) Acetone	3.84	43	1307	0.892	ug/l #	84
17) Carbon Disulfide	4.04	76	2821	0.299	ug/l #	75
18) Methyl Acetate	4.34	43	5048	0.486	ug/l	93
20) Methylene Chloride	4.54	84	2918	0.692	ug/l	91
29) Tetrahydrofuran	7.23	42	361	0.310	ug/l #	39
31) Cyclohexane	7.66	56	7144	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	24694	4.641	ug/l #	49
38) Carbon Tetrachloride	7.66	117	30637	6.149	ug/l #	17
43) Isopropyl Acetate	8.26	43	20726	2.981	ug/l #	56
73) Isopropylbenzene	12.24	105	447	Below Cal		76
75) 1,1,2,2-Tetrachloroethane	12.41	83	29	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	120154	32.390	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	120154	122.786	ug/l #	5
83) tert-Butylbenzene	12.99	119	206	Below Cal	#	73
93) 1,2,4-Trichlorobenzene	14.90	180	376	2.870	ug/l #	29
94) Hexachlorobutadiene	15.01	225	32	Below Cal	#	1
95) Naphthalene	15.13	128	876	3.529	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.32	180	233	2.207	ug/l #	13

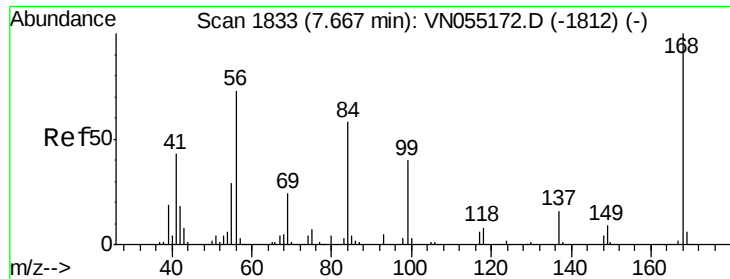
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

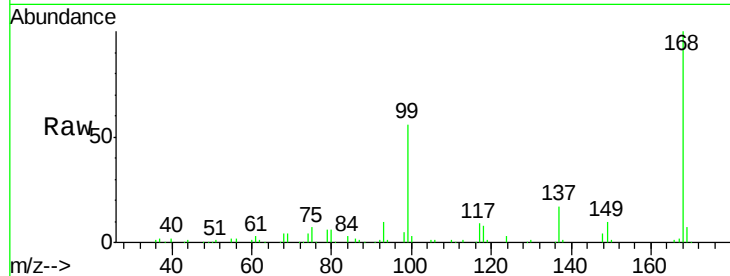
RBR200051

Tot Ion:168 Resp: 327596

Ion Ratio Lower Upper

168 100

99 55.6 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

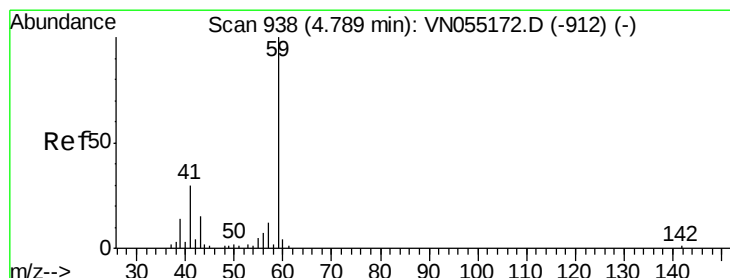
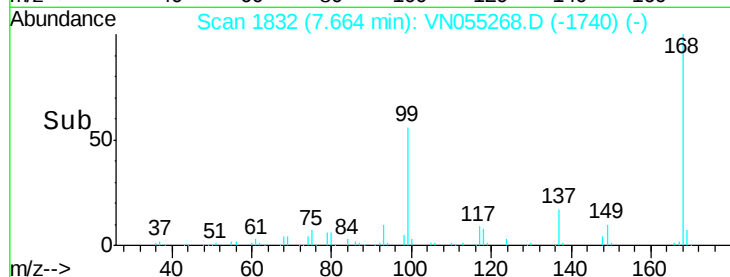
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.552 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.02 min

Lab File: VN055268.D

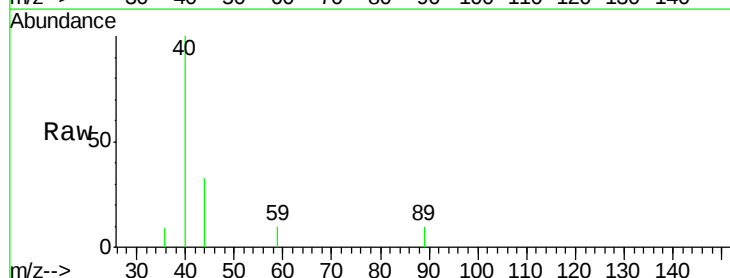
Acq: 26 Apr 2019 11:53

Tgt Ion: 59 Resp: 143

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

250

200

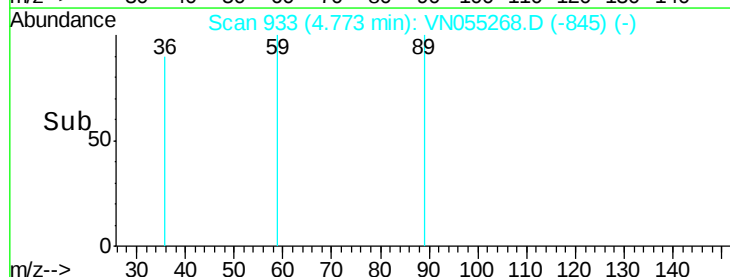
150

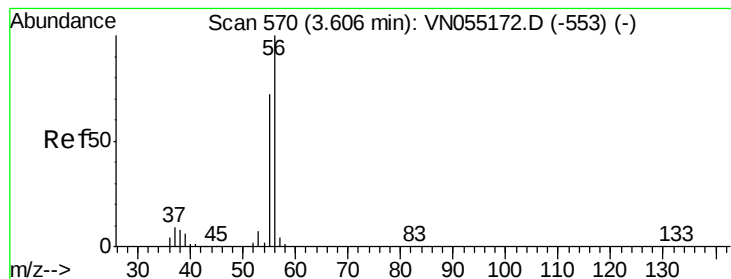
100

50

0

Time-->





#13

Acrolein

Concen: 9.581 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

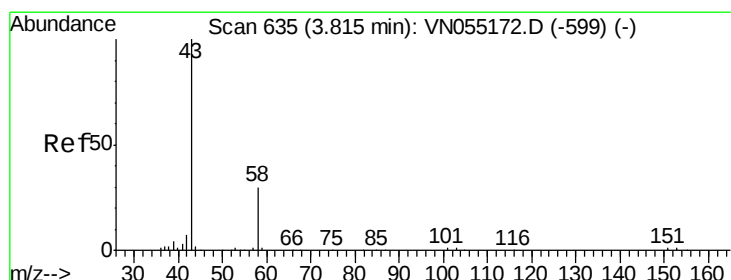
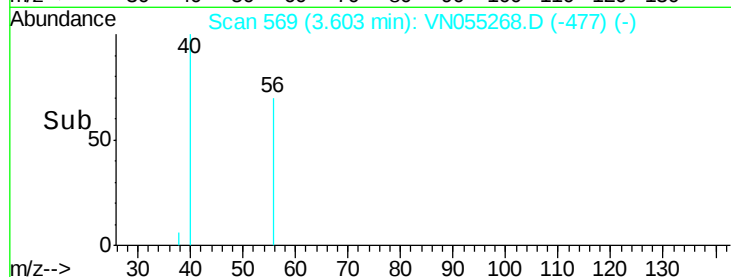
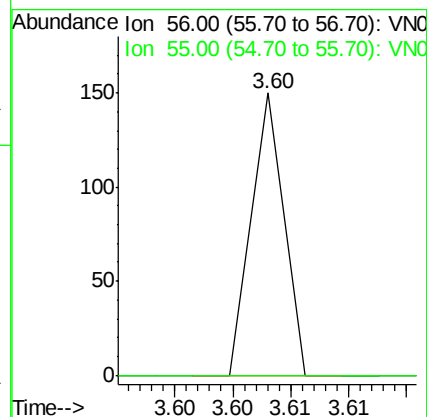
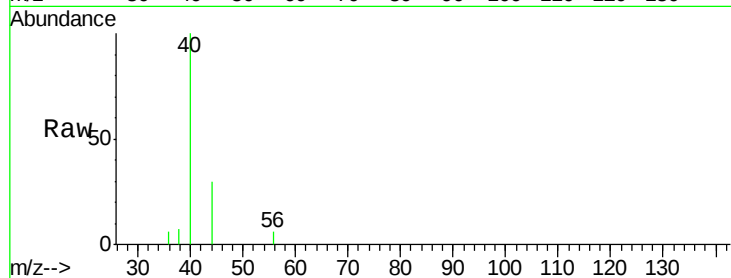
RBR200051

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#



#16

Acetone

Concen: 0.892 ug/l

RT: 3.84 min Scan# 642

Delta R.T. 0.02 min

Lab File: VN055268.D

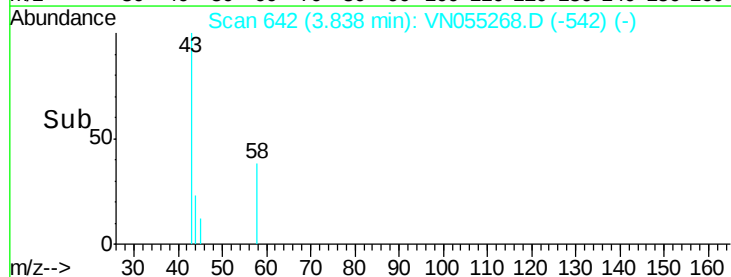
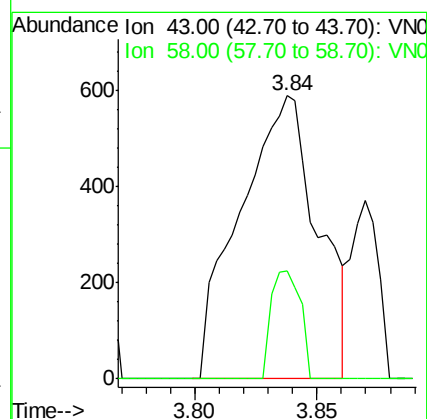
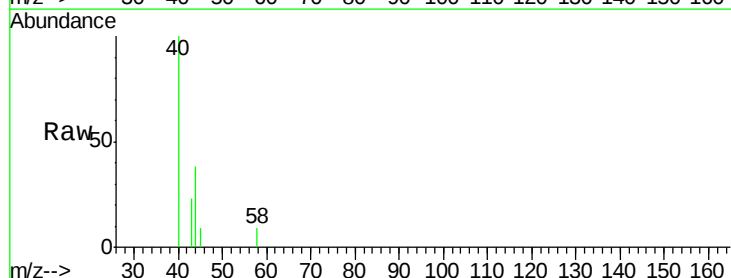
Acq: 26 Apr 2019 11:53

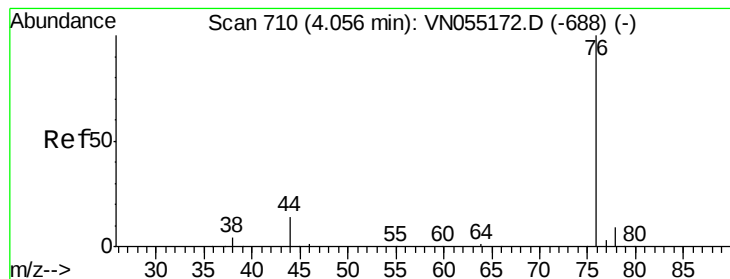
Tgt Ion: 43 Resp: 1307

Ion Ratio Lower Upper

43 100

58 38.2 23.8 35.8#





#17

Carbon Disulfide

Concen: 0.299 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.02 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

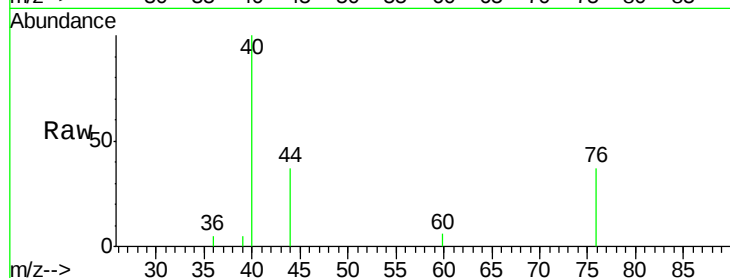
RBR200051

Tot Ion: 76 Resp: 2821

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

1200

1000

800

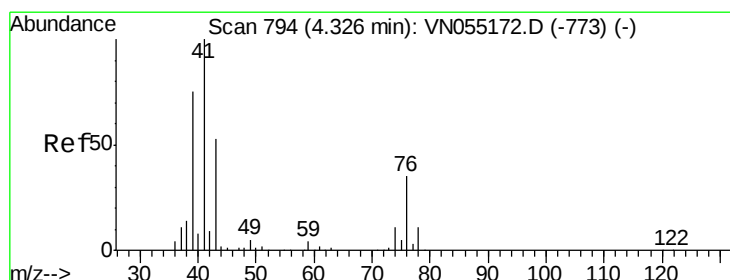
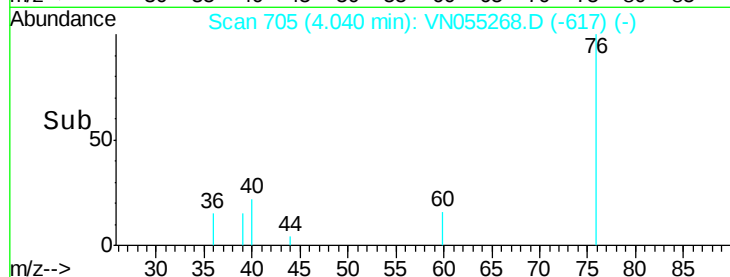
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 0.486 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055268.D

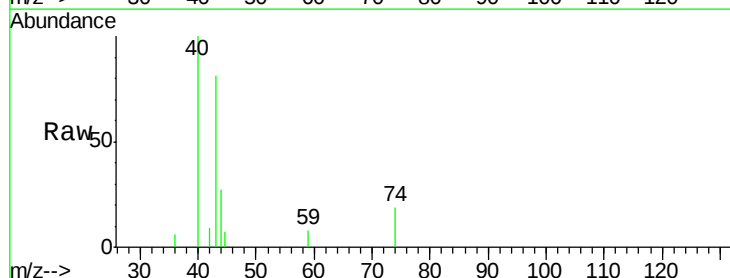
Acq: 26 Apr 2019 11:53

Tgt Ion: 43 Resp: 5048

Ion Ratio Lower Upper

43 100

74 17.6 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

2000

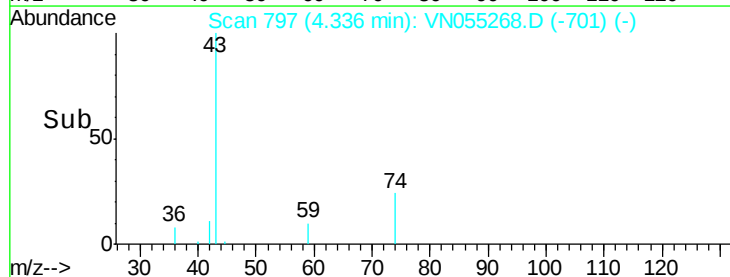
1500

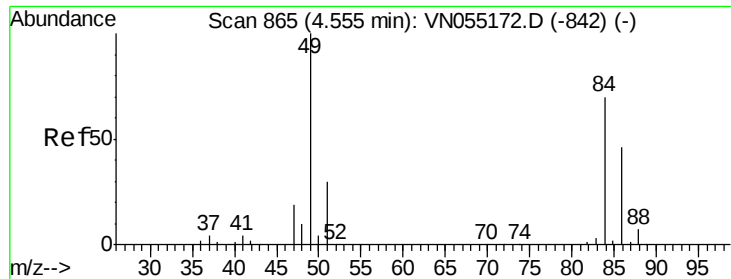
1000

500

0

Time-->

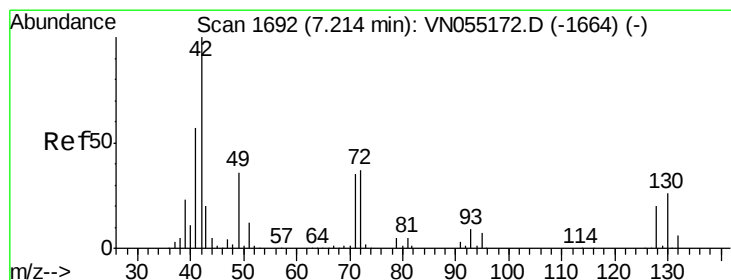
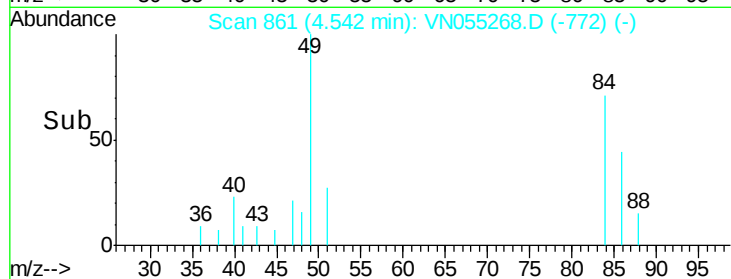
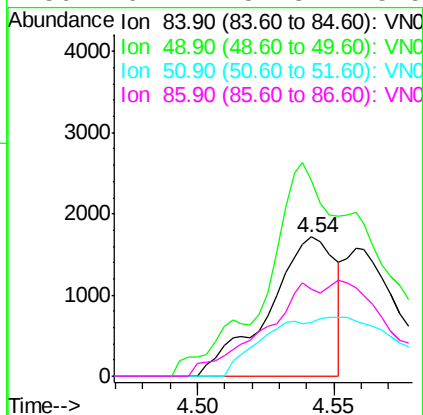
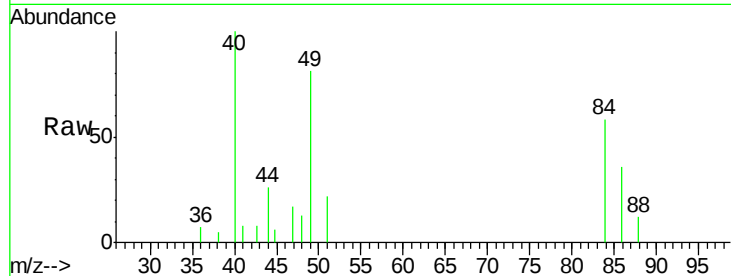




#20
Methvlene Chloride
Concen: 0.692 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN055268.D
Acq: 26 Apr 2019 11:53

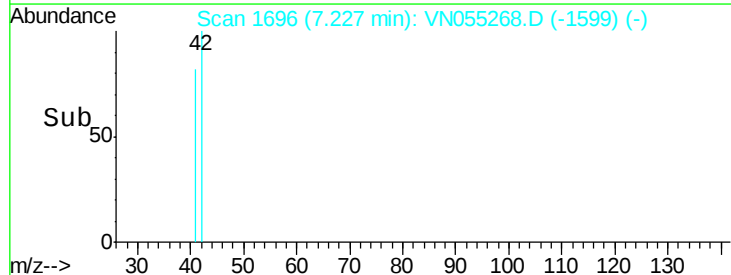
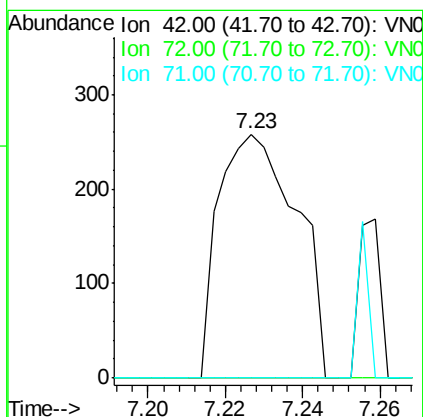
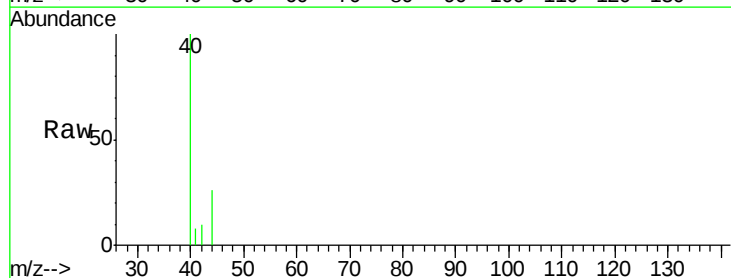
Instrument :
MSVOA_N
ClientSampled :
RBR200051

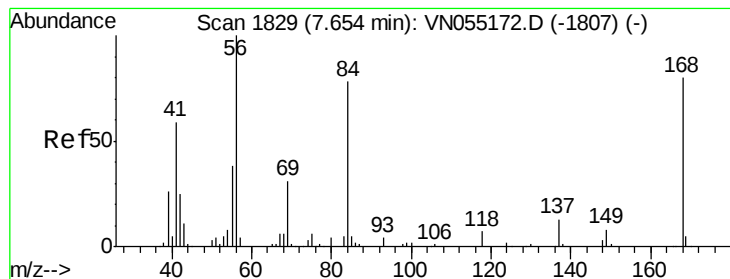
Tot Ion:	84	Resp:	2918
Ion	Ratio	Lower	Upper
84	100		
49	127.1	113.8	170.6
51	38.4	34.0	51.0
86	62.4	52.3	78.5



#29
Tetrahydrofuran
Concen: 0.310 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN055268.D
Acq: 26 Apr 2019 11:53

Tgt Ion:	42	Resp:	361
Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.2#
71	0.0	27.8	41.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

RBR200051

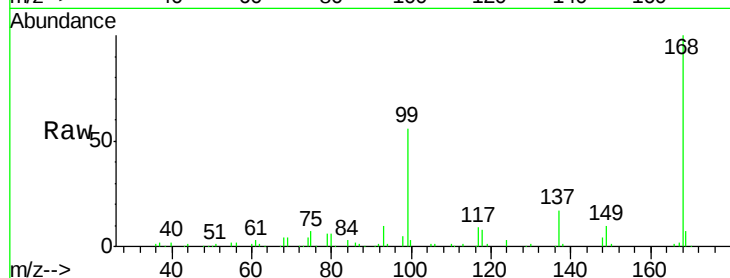
Tot Ion: 56 Resp: 7144

Ion Ratio Lower Upper

56 100

69 188.0 24.6 37.0#

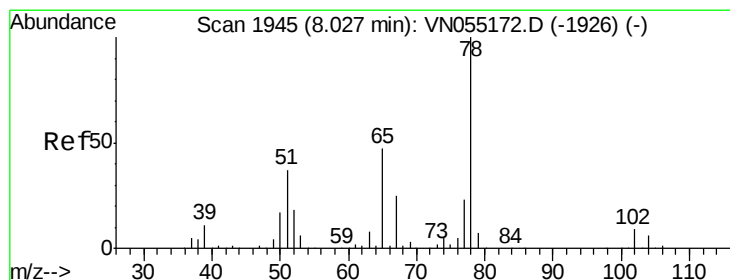
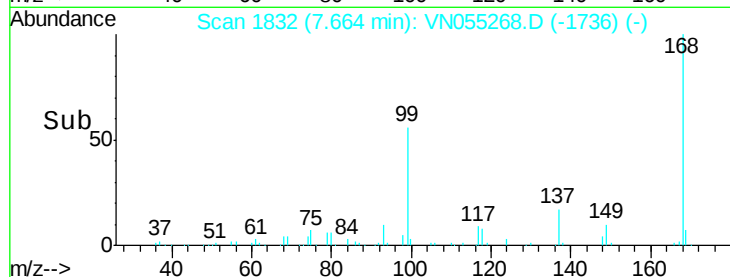
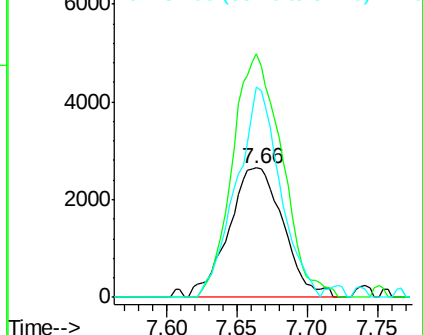
84 162.2 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.522 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN055268.D

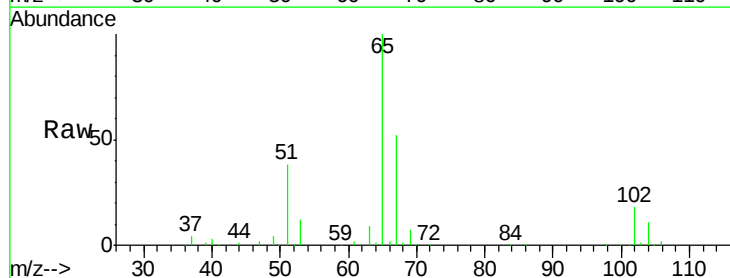
Acq: 26 Apr 2019 11:53

Tgt Ion: 65 Resp: 228455

Ion Ratio Lower Upper

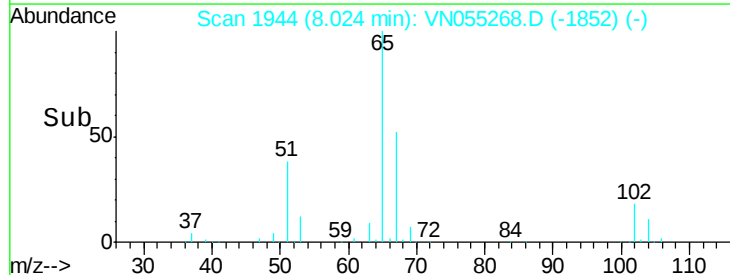
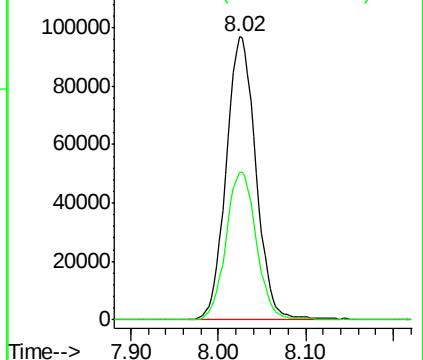
65 100

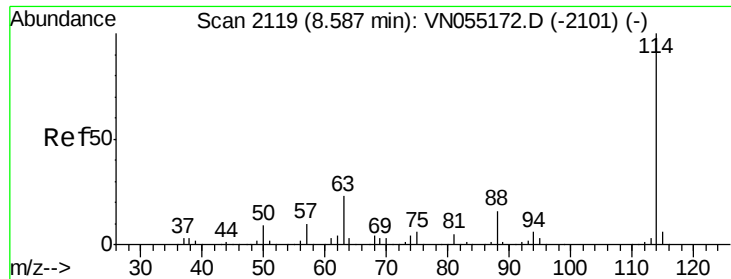
67 53.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

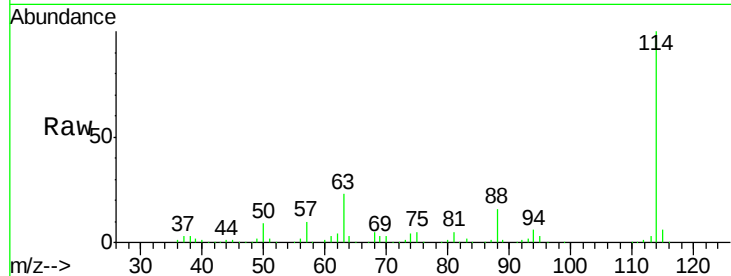




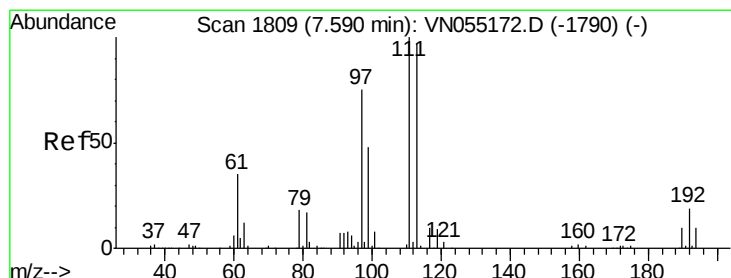
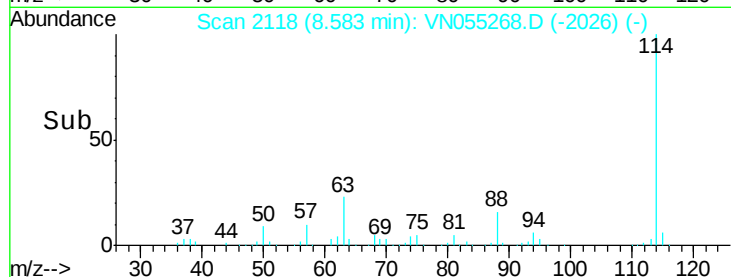
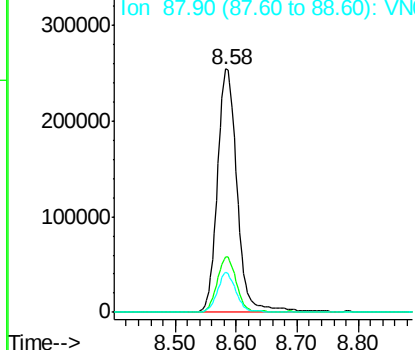
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN055268.D
Acq: 26 Apr 2019 11:53

Instrument :
MSVOA_N
ClientSampled :
RBR200051

Tot Ion:114 Resp: 573265
Ion Ratio Lower Upper
114 100
63 22.6 0.0 45.2
88 16.5 0.0 32.8

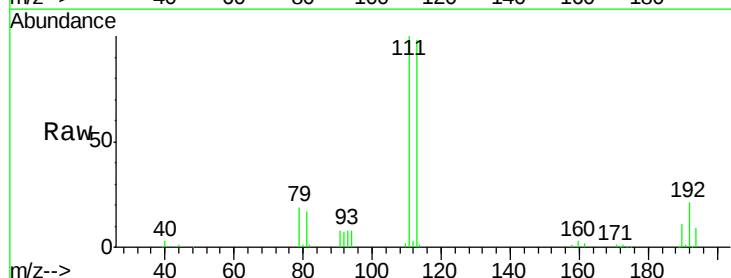


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

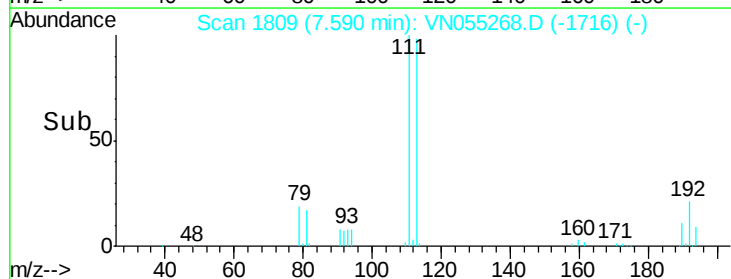
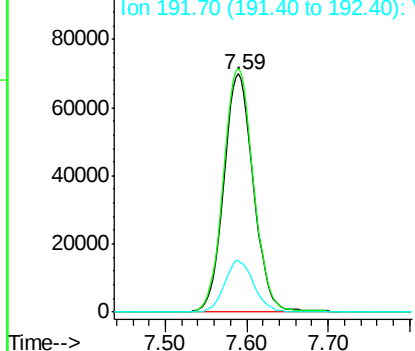


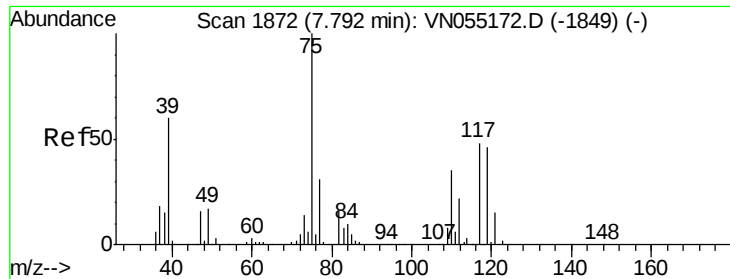
#35
Dibromofluoromethane
Concen: 45.820 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN055268.D
Acq: 26 Apr 2019 11:53

Tgt Ion:113 Resp: 178445
Ion Ratio Lower Upper
113 100
111 103.8 81.0 121.4
192 21.2 16.2 24.4



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

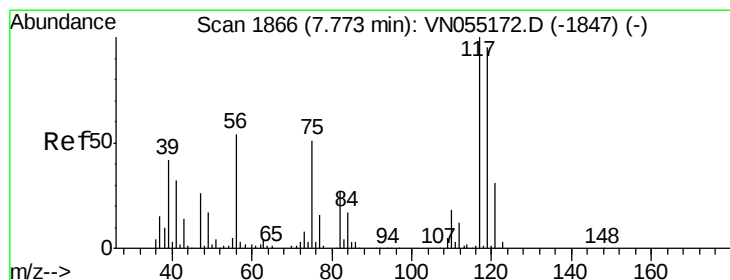
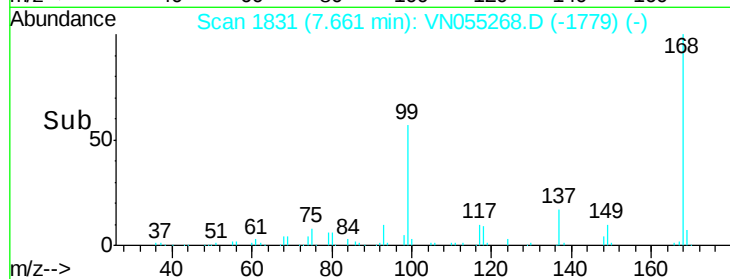
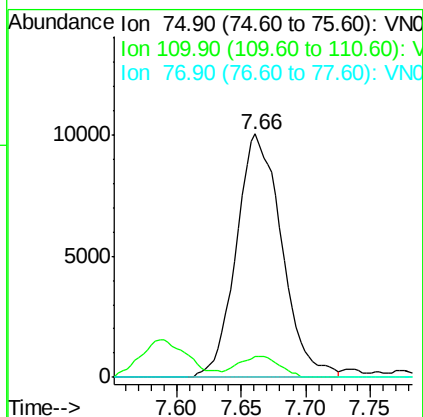
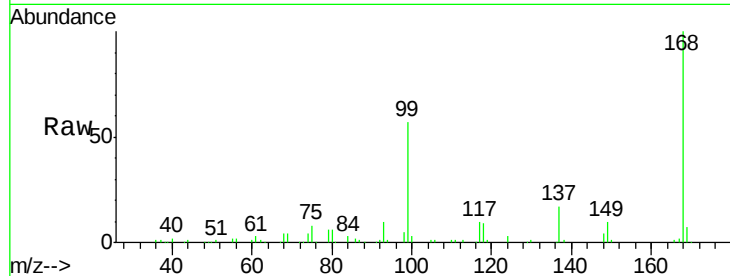




#36
 1,1-Dichloropropene
 Concen: 4.641 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055268.D
 Acq: 26 Apr 2019 11:53

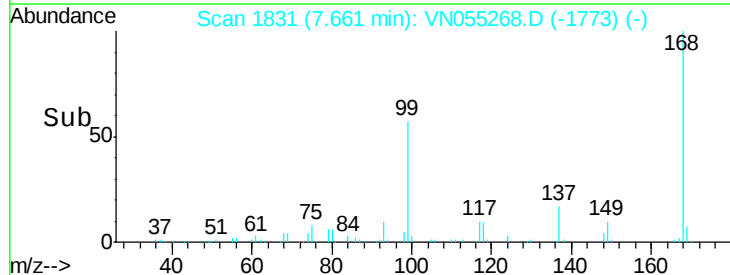
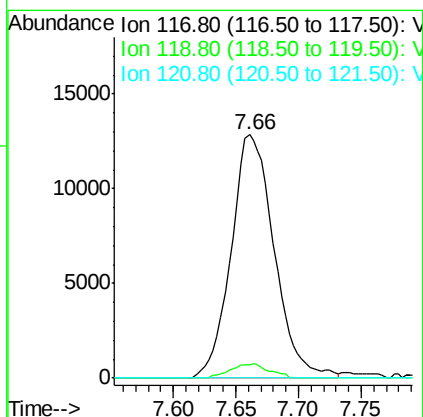
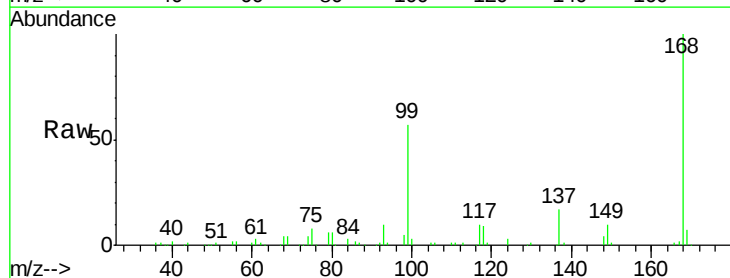
Instrument :
 MSVOA_N
 ClientSampled :
 RBR200051

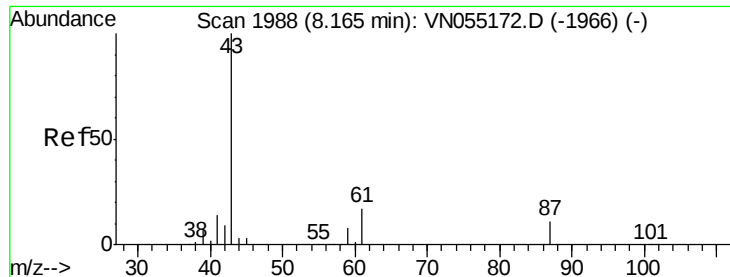
Tot Ion: 75 Resp: 24694
 Ion Ratio Lower Upper
 75 100
 110 7.8 17.1 51.2#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.149 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN055268.D
 Acq: 26 Apr 2019 11:53

Tgt Ion: 117 Resp: 30637
 Ion Ratio Lower Upper
 117 100
 119 5.5 76.0 114.0#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 2.981 ug/l

RT: 8.26 min Scan# 2016

Delta R.T. 0.09 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

RBR200051

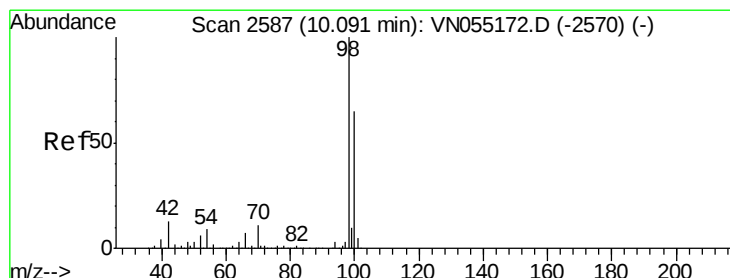
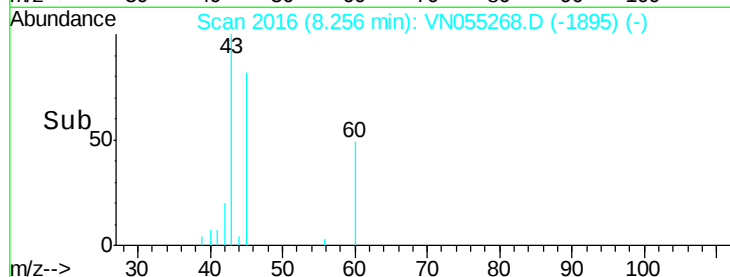
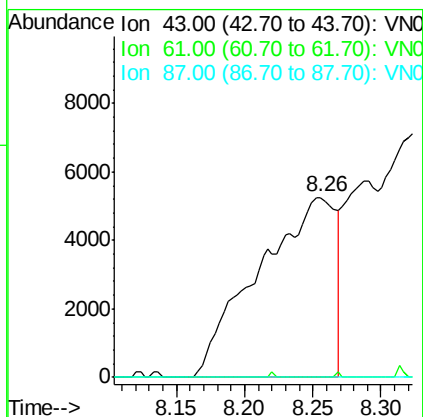
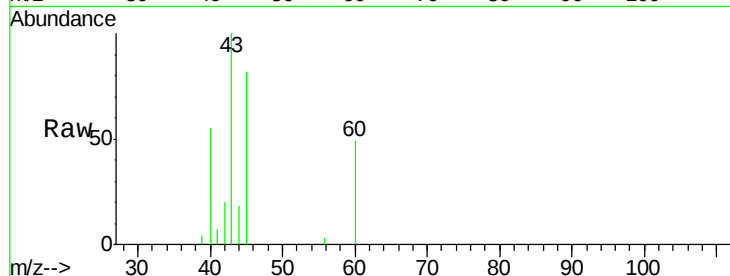
Tot Ion: 43 Resp: 20726

Ion Ratio Lower Upper

43 100

61 0.0 20.6 30.8#

87 0.0 8.8 13.2#



#50

Toluene-d8

Concen: 48.587 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055268.D

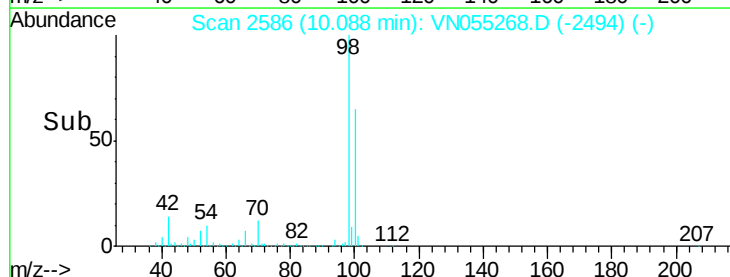
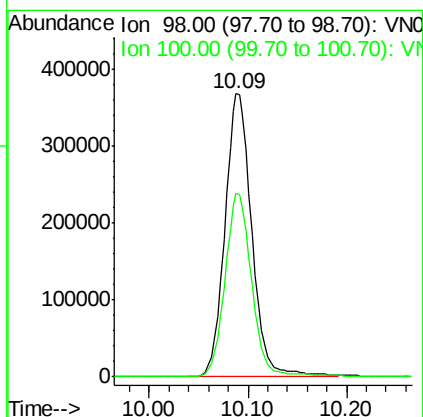
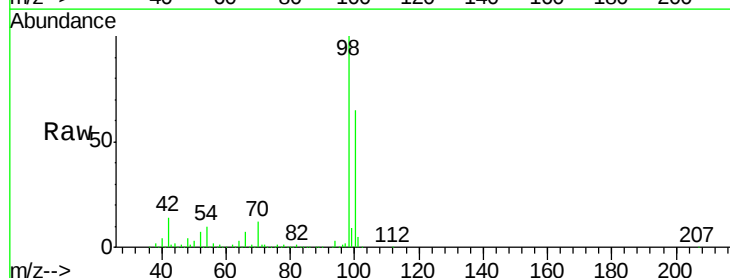
Acq: 26 Apr 2019 11:53

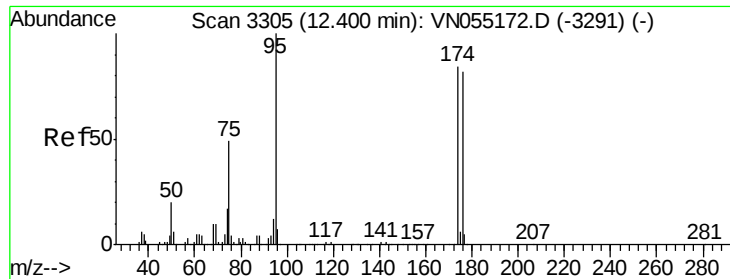
Tgt Ion: 98 Resp: 701081

Ion Ratio Lower Upper

98 100

100 63.6 51.8 77.6





#62

4-Bromofluorobenzene

Concen: 51.143 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

RBR200051

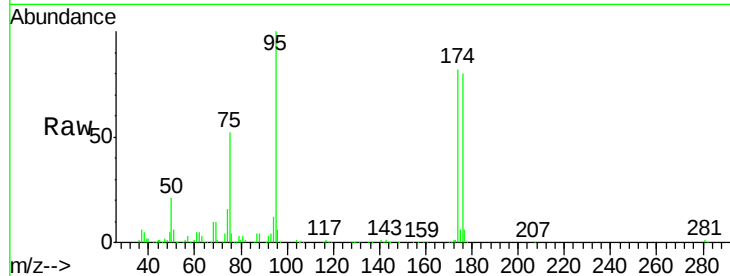
Tot Ion: 95 Resp: 233694

Ion Ratio Lower Upper

95 100

174 82.4 0.0 168.4

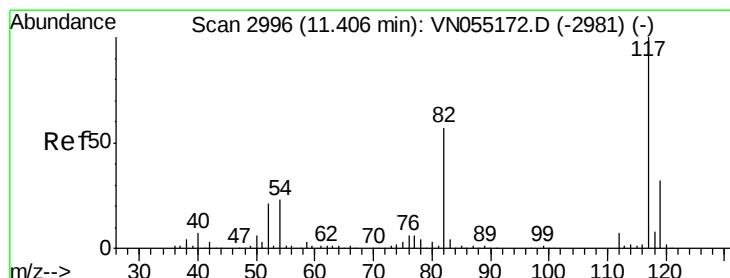
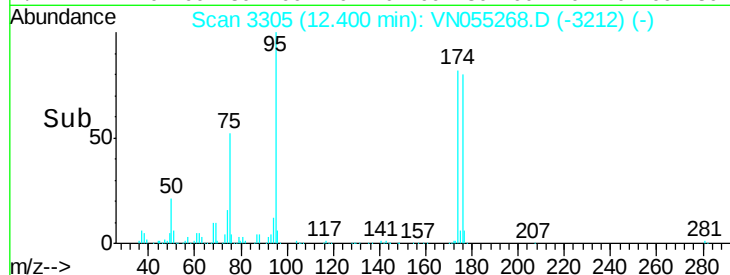
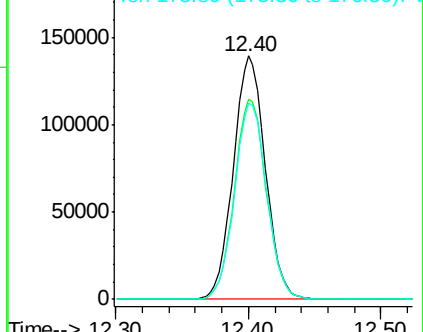
176 81.1 0.0 164.0



Abundance Ion 94.90 (94.60 to 95.60): VN055172.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055172.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055172.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

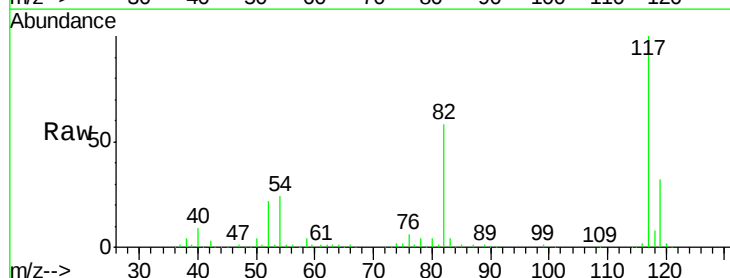
Tgt Ion: 117 Resp: 516533

Ion Ratio Lower Upper

117 100

82 57.8 45.7 68.5

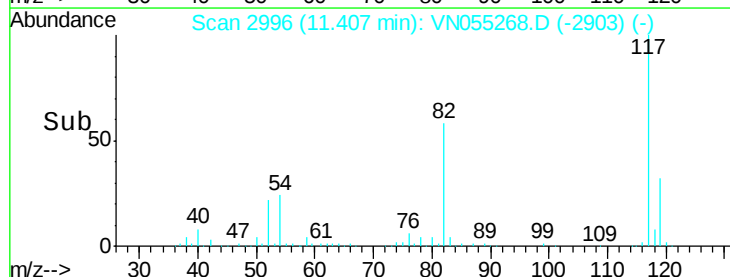
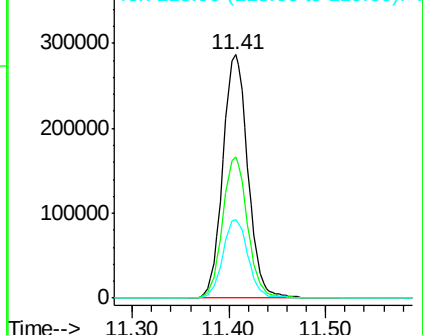
119 32.3 25.4 38.2

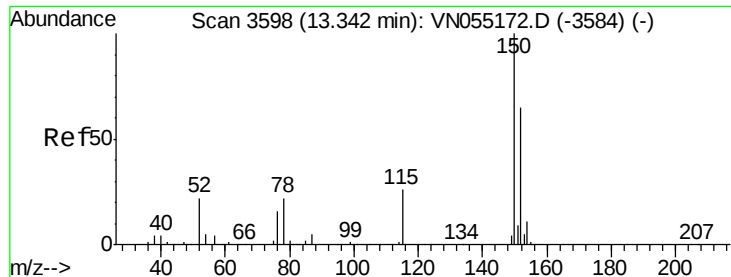


Abundance Ion 116.90 (116.60 to 117.60): VN055172.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055172.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055172.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

RBR200051

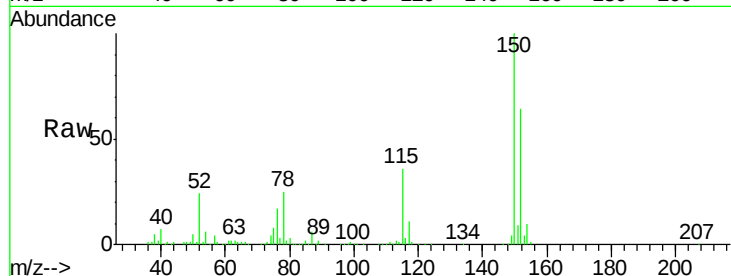
Tot Ion:152 Resp: 182852

Ion Ratio Lower Upper

152 100

115 57.3 28.9 86.7

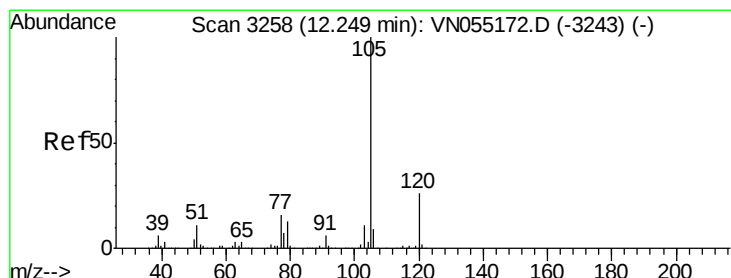
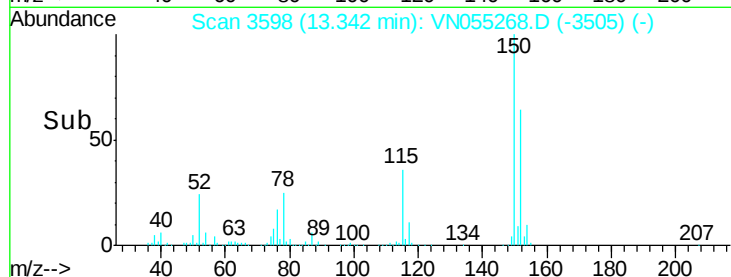
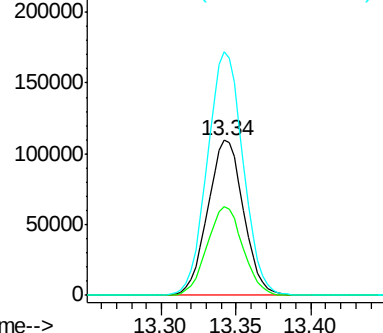
150 157.0 0.0 346.6



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055268.D

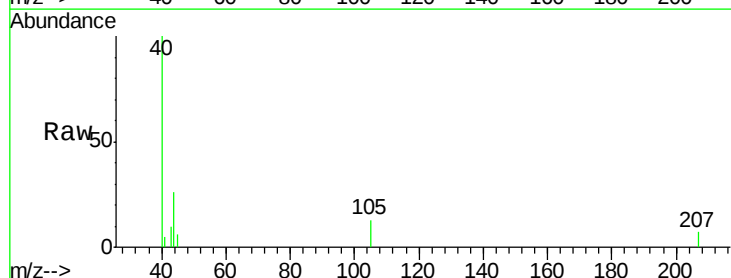
Acq: 26 Apr 2019 11:53

Tgt Ion:105 Resp: 447

Ion Ratio Lower Upper

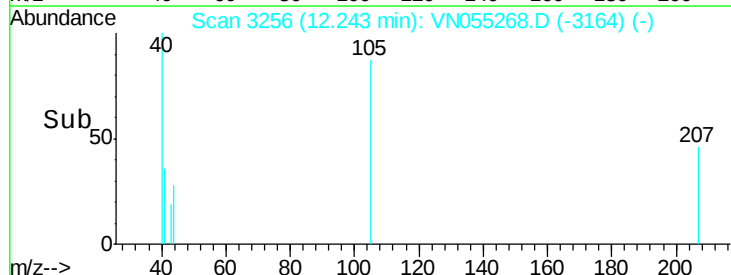
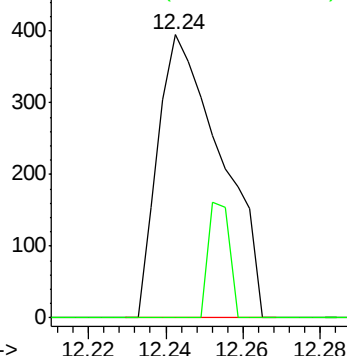
105 100

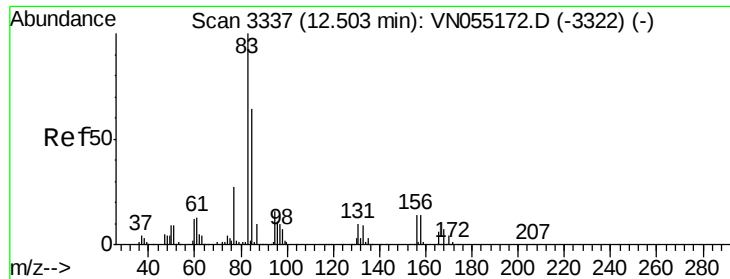
120 13.6 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

RBR200051

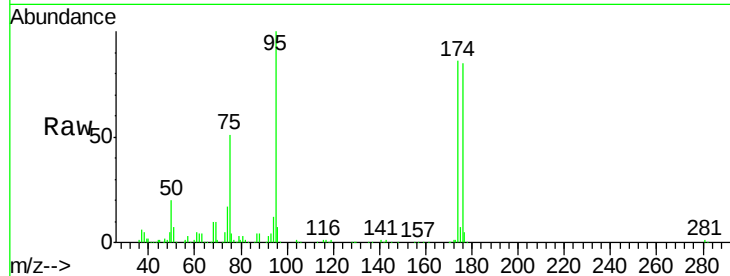
Tot Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 206.9 5.0 15.0#

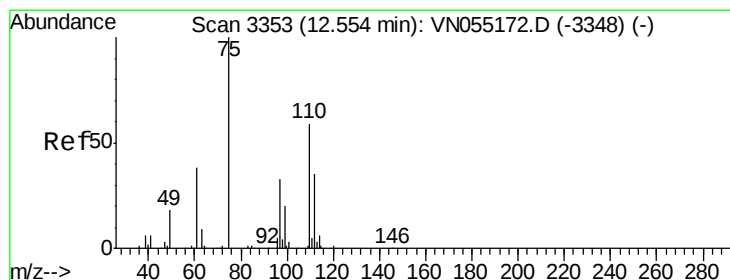
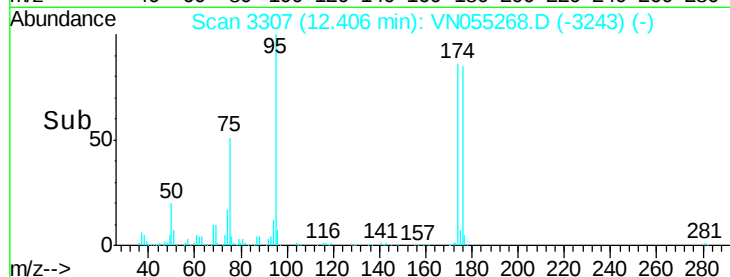
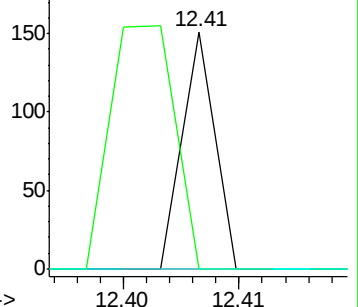
85 0.0 32.1 96.3#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 32.390 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055268.D

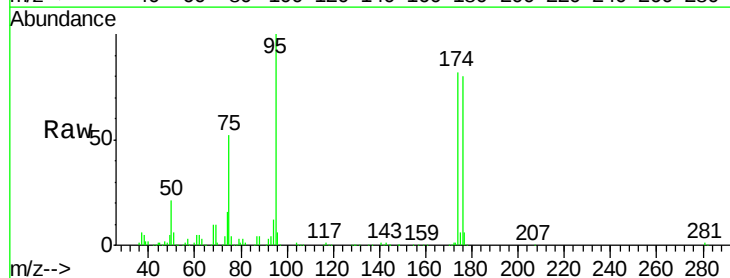
Acq: 26 Apr 2019 11:53

Tgt Ion: 75 Resp: 120154

Ion Ratio Lower Upper

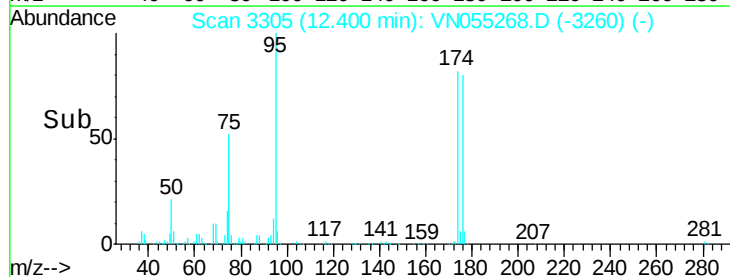
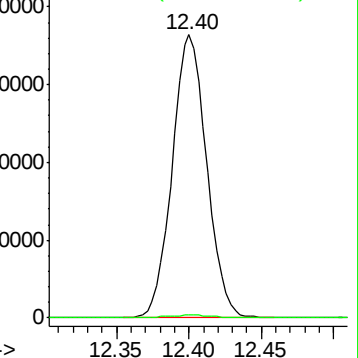
75 100

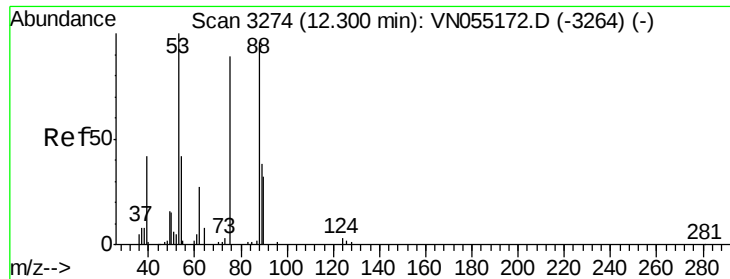
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 122.786 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

RBR200051

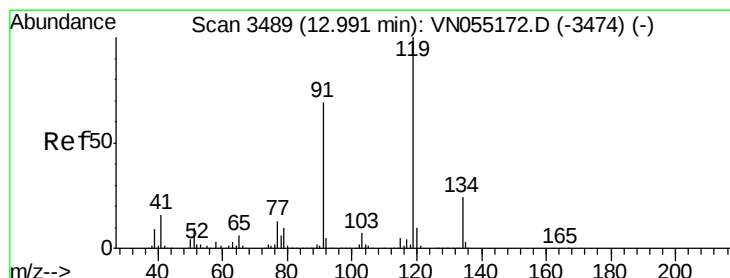
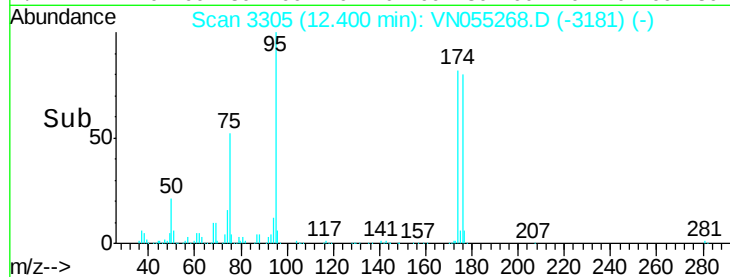
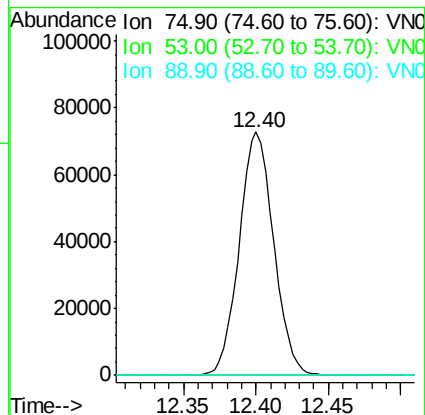
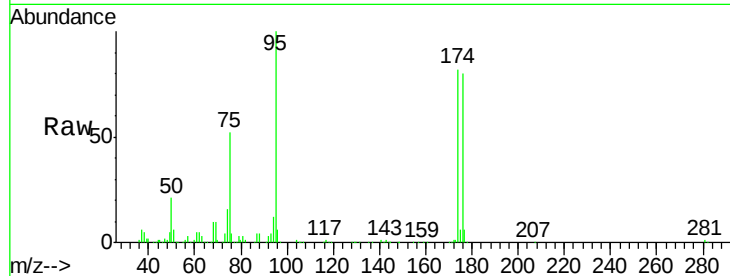
Tot Ion: 75 Resp: 120154

Ion Ratio Lower Upper

75 100

53 0.1 90.1 135.1#

89 0.0 36.7 55.1#



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

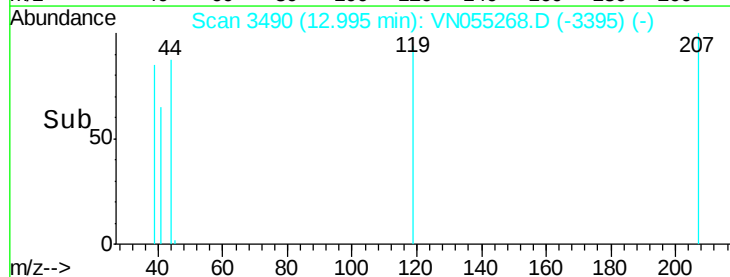
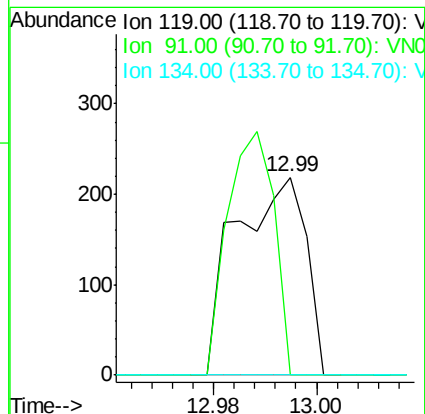
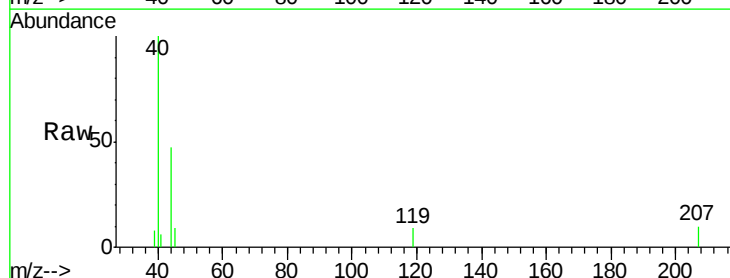
Tgt Ion: 119 Resp: 206

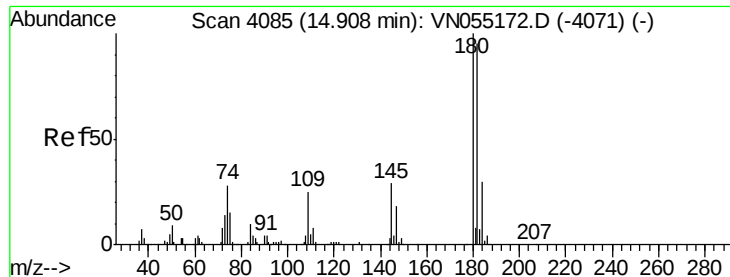
Ion Ratio Lower Upper

119 100

91 81.6 33.8 101.3

134 0.0 13.2 39.5#

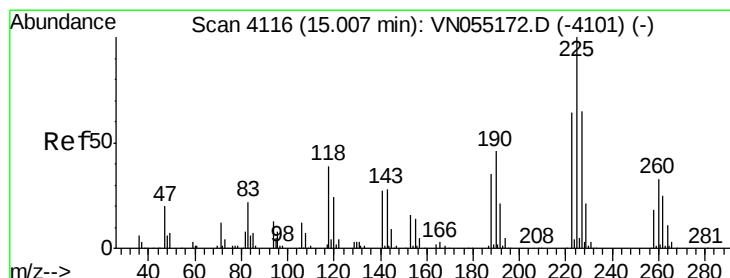
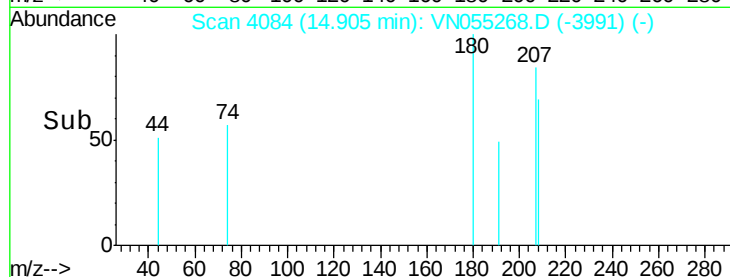
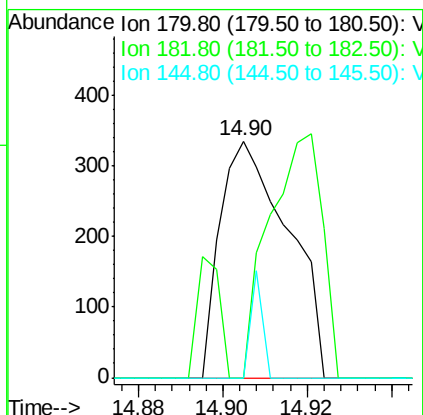
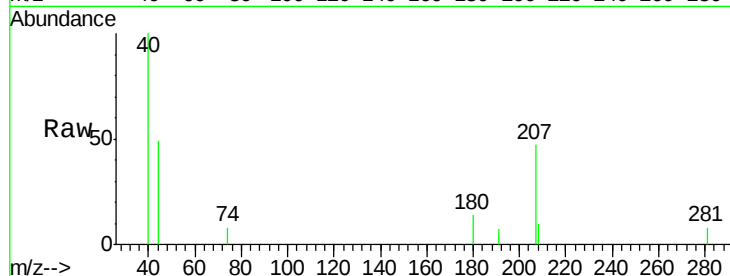




#93
 1,2,4-Trichlorobenzene
 Concen: 2.870 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055268.D
 Acq: 26 Apr 2019 11:53

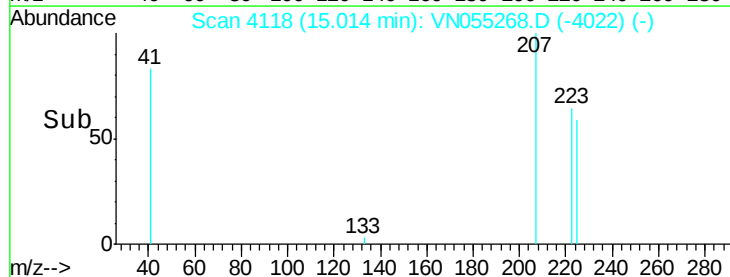
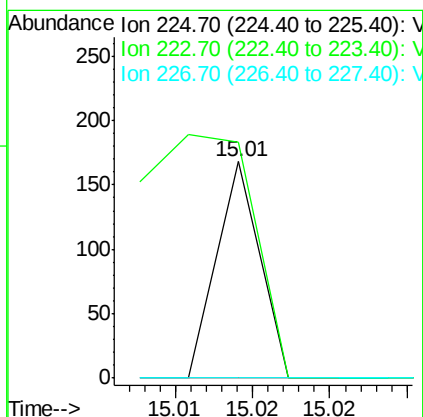
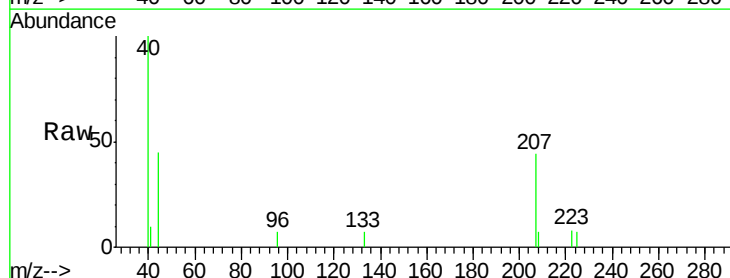
Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200051

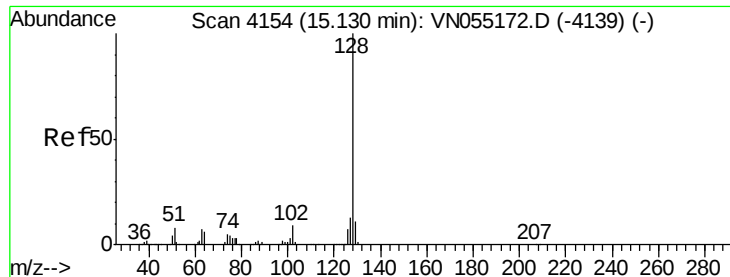
Tot Ion:180 Resp: 376
 Ion Ratio Lower Upper
 180 100
 182 16.8 47.8 143.4#
 145 7.7 14.5 43.5#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN055268.D
 Acq: 26 Apr 2019 11:53

Tgt Ion:225 Resp: 32
 Ion Ratio Lower Upper
 225 100
 223 315.6 32.2 96.6#
 227 0.0 32.6 98.0#





#95

Naphthalene

Concen: 3.529 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

RBR200051

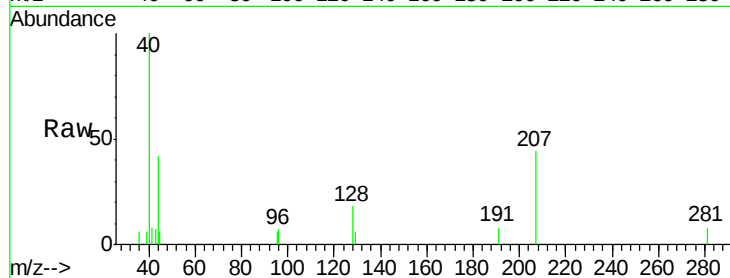
Tot Ion:128 Resp: 876

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

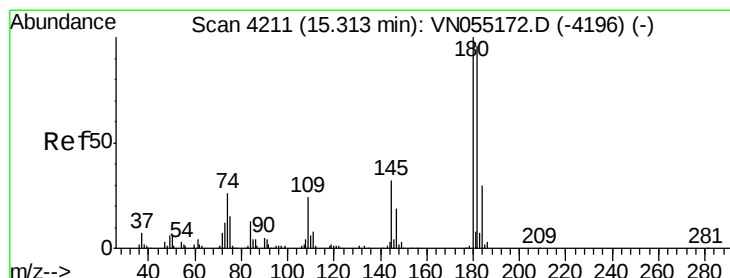
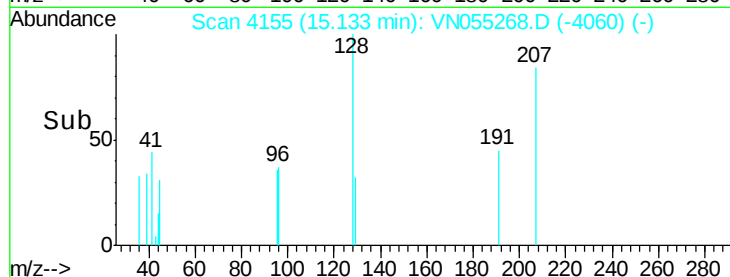
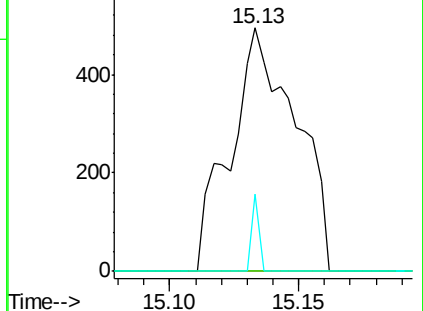
129 3.4 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.207 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055268.D

Acq: 26 Apr 2019 11:53

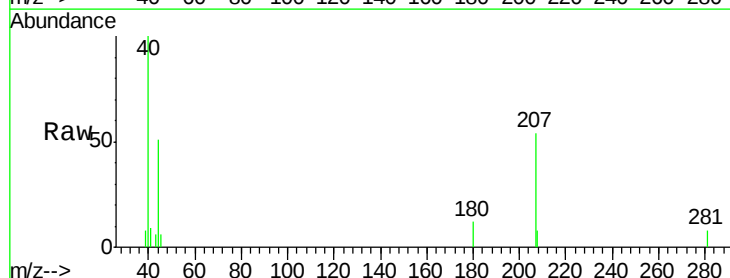
Tgt Ion:180 Resp: 233

Ion Ratio Lower Upper

180 100

182 0.0 47.2 141.6#

145 0.0 15.4 46.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

