

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055840.D
 Acq On : 28 May 2019 9:55
 Operator : JC/SP
 Sample : VN0528WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528WBL01

Quant Time: May 28 17:36:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

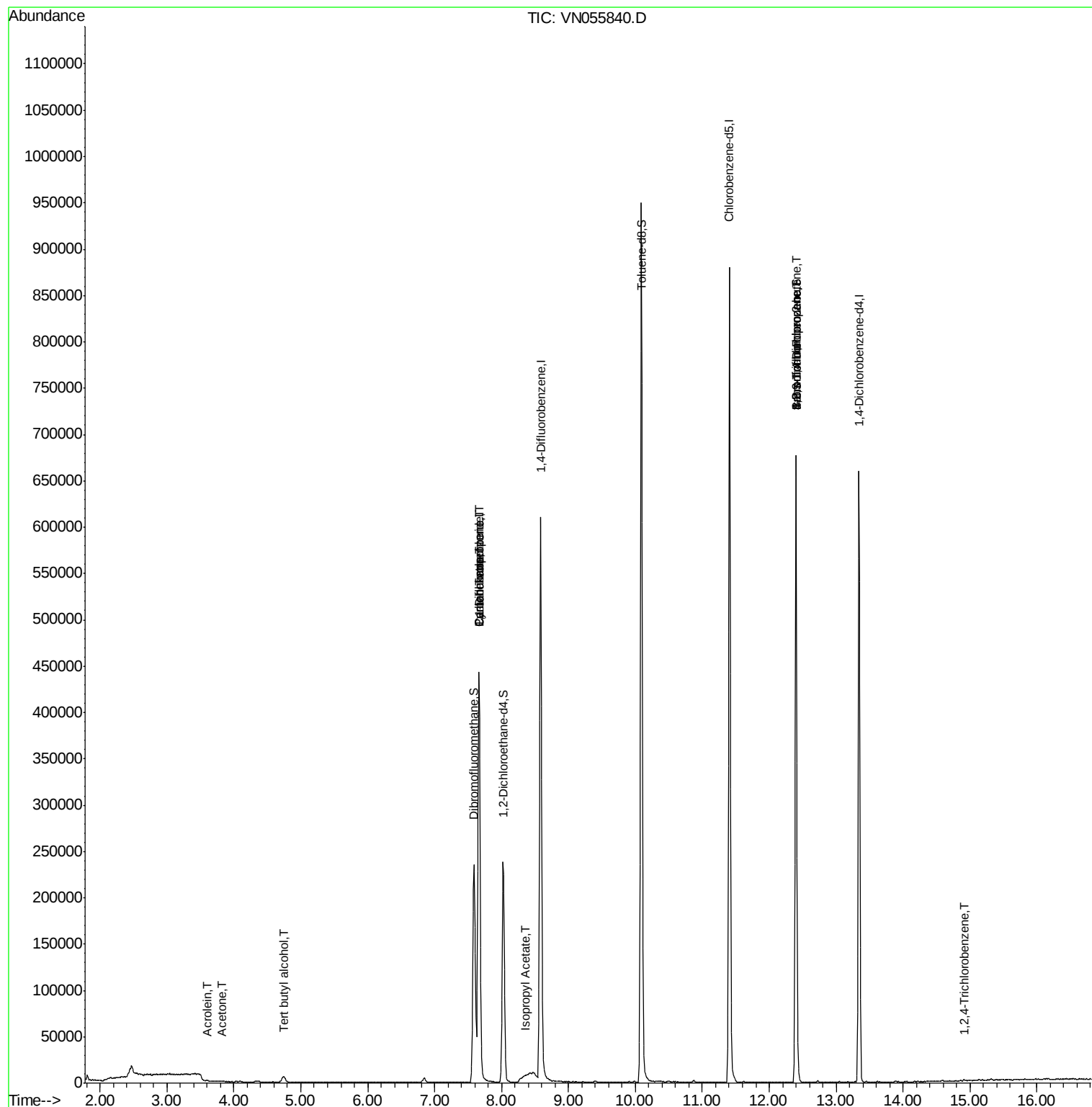
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	427887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	606414	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	555517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	197984	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	199869	45.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.46%	
35) Dibromofluoromethane	7.59	113	182400	47.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.14%	
50) Toluene-d8	10.09	98	723186	49.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.40	95	235656	46.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.46%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	6303	7.465	ug/l #	74
13) Acrolein	3.61	56	162	0.268	ug/l #	1
16) Acetone	3.82	43	1588	0.818	ug/l	93
18) Methyl Acetate	4.34	43	3300	Below Cal	#	80
31) Cyclohexane	7.66	56	5804	0.875	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23874	4.518	ug/l #	48
38) Carbon Tetrachloride	7.66	117	34455	6.259	ug/l #	14
43) Isopropyl Acetate	8.35	43	11987	1.397	ug/l #	53
71) Bromoform	12.40	173	1641	0.434	ug/l #	1
73) Isopropylbenzene	12.25	105	337	Below Cal	#	48
74) N-amyl acetate	12.06	43	265	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	107928	30.426	ug/l #	100
79) 2-Chlorotoluene	12.59	91	616	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	389	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	107928	73.347	ug/l #	15
83) tert-Butylbenzene	12.99	119	93	Below Cal	#	58
84) 1,2,4-Trimethylbenzene	13.04	105	758	Below Cal		72
85) sec-Butylbenzene	13.17	105	331	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	702	3.806	ug/l #	79

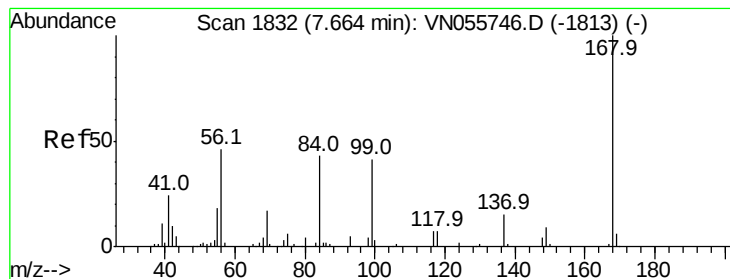
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampleId :

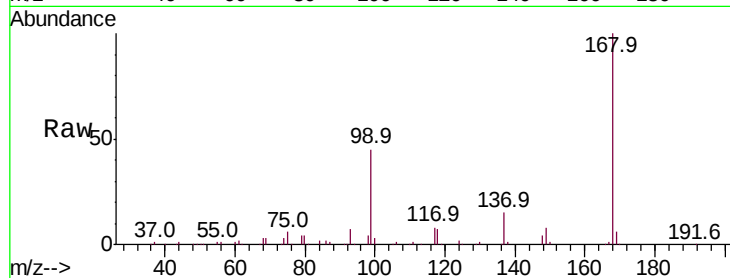
VN0528WBL01

Tot Ion:168 Resp: 427887

Ion Ratio Lower Upper

168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

200000

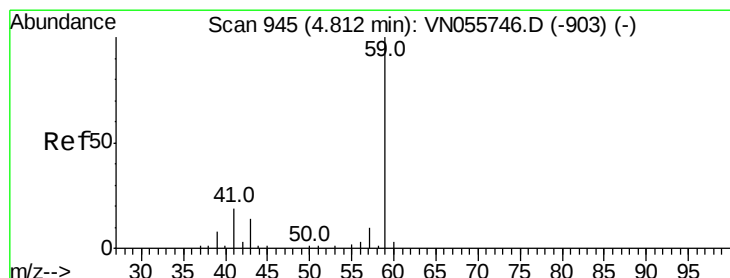
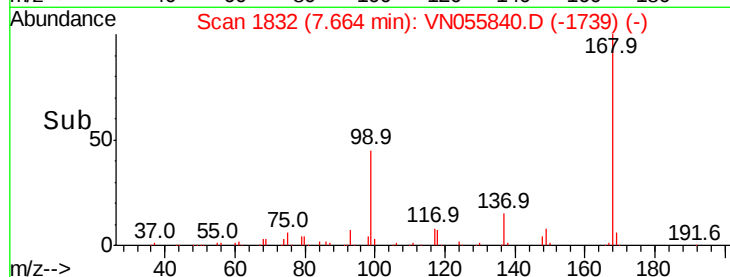
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 7.465 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055840.D

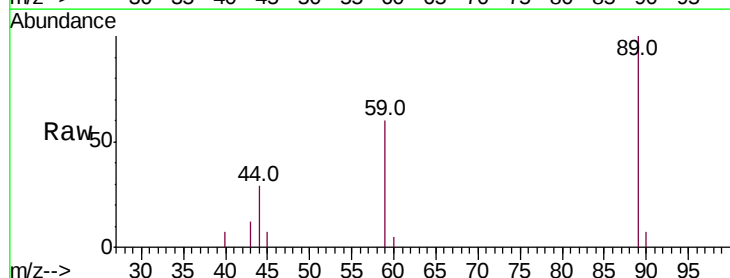
Acq: 28 May 2019 9:55

Tgt Ion: 59 Resp: 6303

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

2000

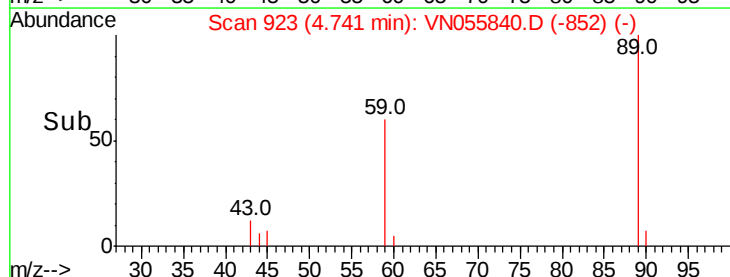
1500

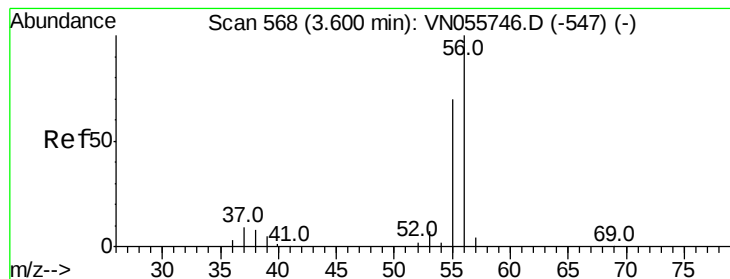
1000

500

0

Time--> 4.65 4.70 4.75 4.80





#13

Acrolein

Concen: 0.268 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampled :

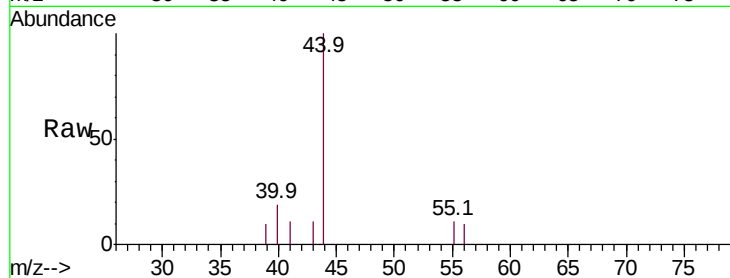
VN0528WBL01

Tot Ion: 56 Resp: 162

Ion Ratio Lower Upper

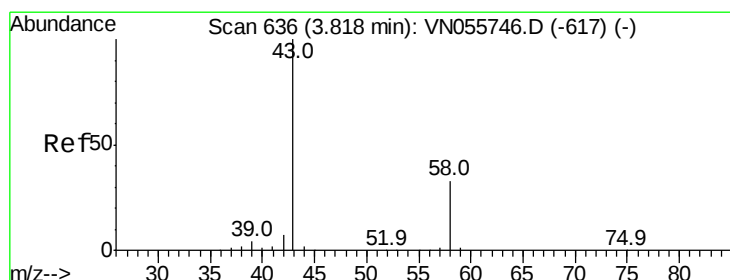
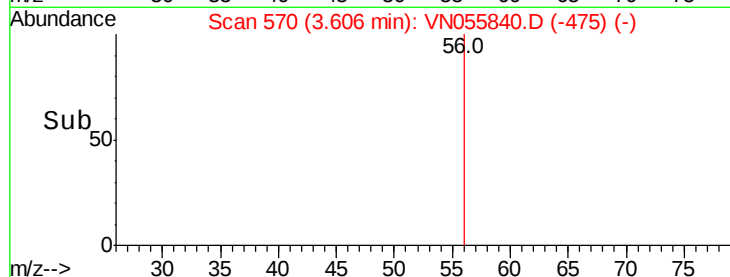
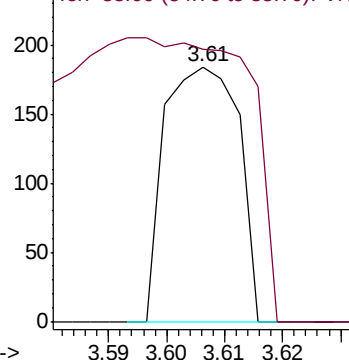
56 100

55 314.2 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.818 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN055840.D

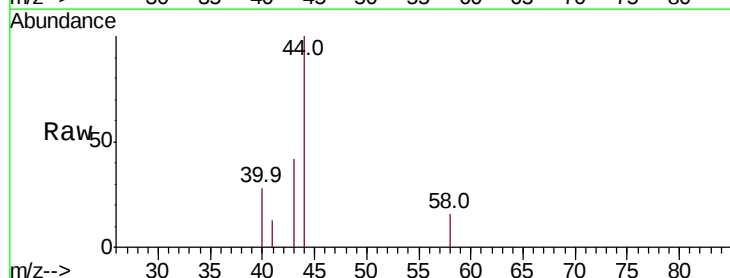
Acq: 28 May 2019 9:55

Tgt Ion: 43 Resp: 1588

Ion Ratio Lower Upper

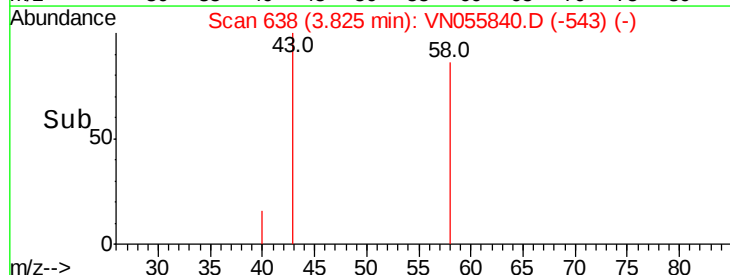
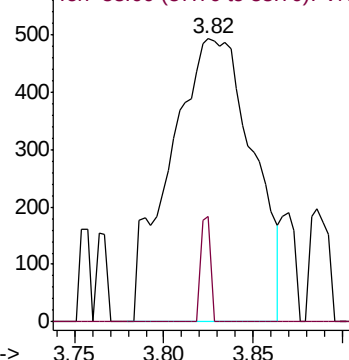
43 100

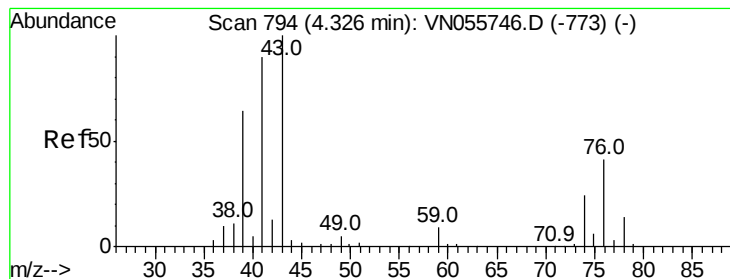
58 37.3 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampled :

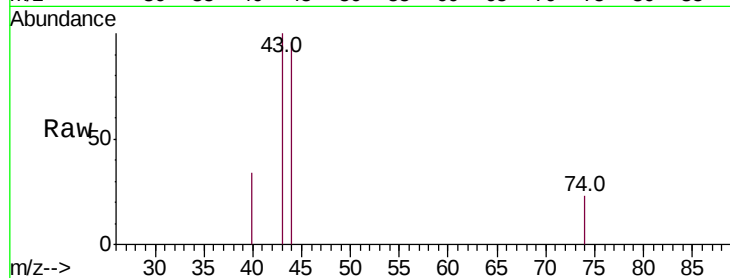
VN0528WBL01

Tot Ion: 43 Resp: 3300

Ion Ratio Lower Upper

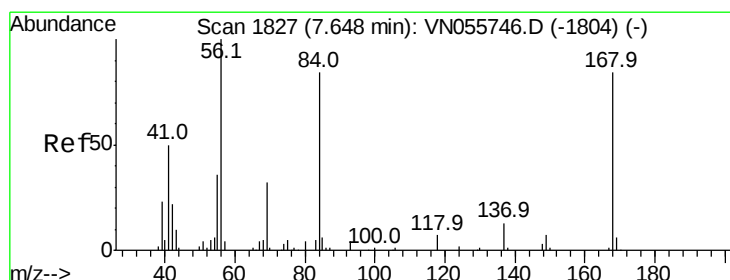
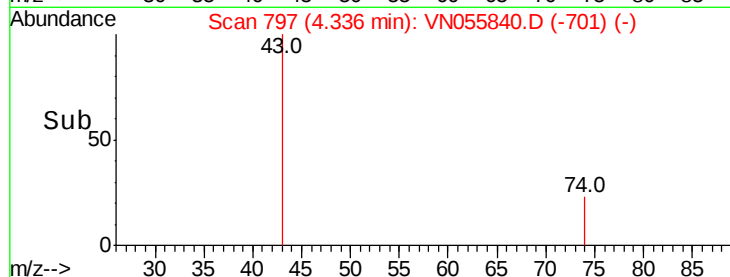
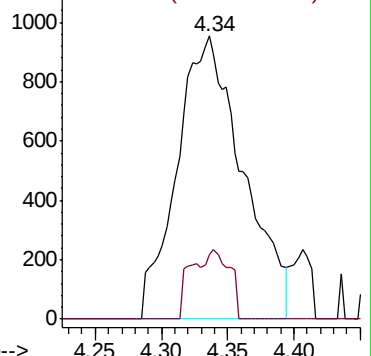
43 100

74 14.3 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#31

Cyclohexane

Concen: 0.875 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

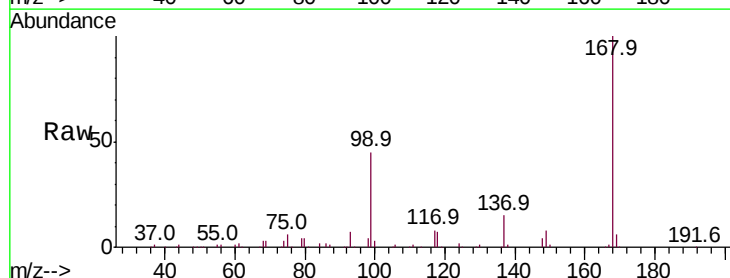
Tgt Ion: 56 Resp: 5804

Ion Ratio Lower Upper

56 100

69 198.1 25.6 38.4#

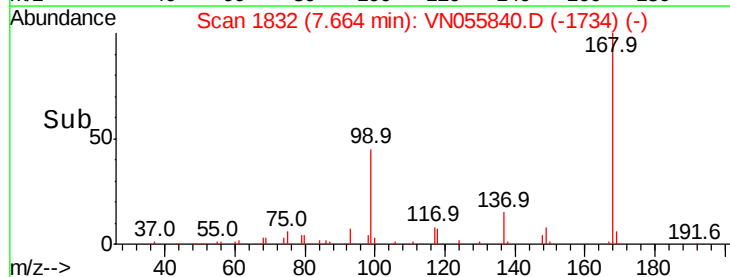
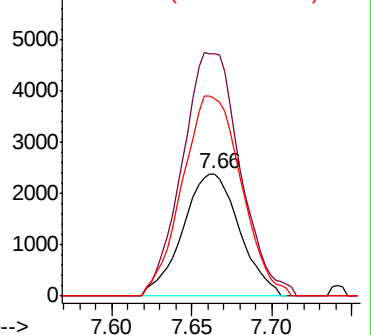
84 161.0 67.4 101.0#

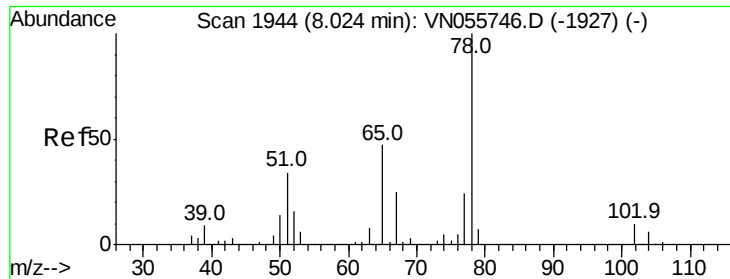


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

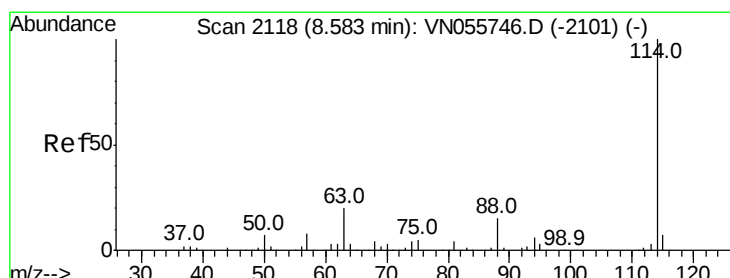
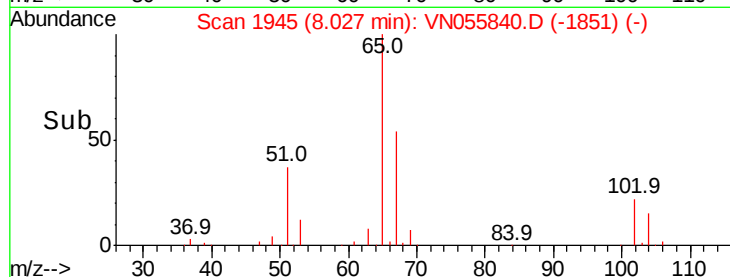
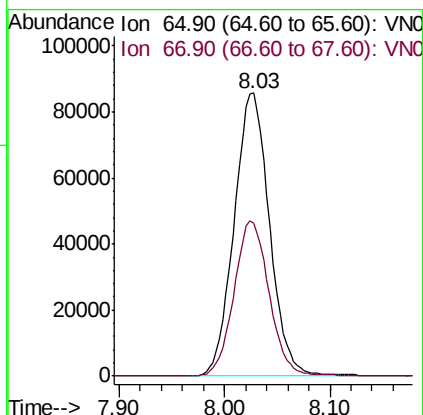
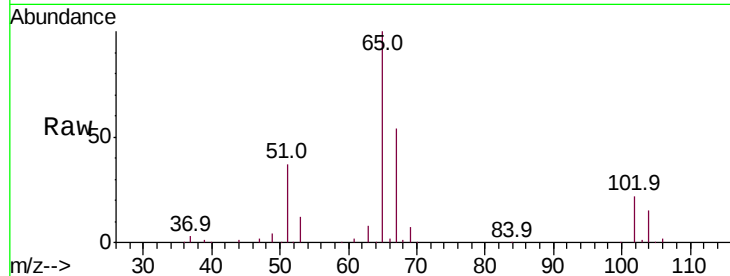




#33
 1,2-Dichloroethane-d4
 Concen: 45.231 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055840.D
 Acq: 28 May 2019 9:55

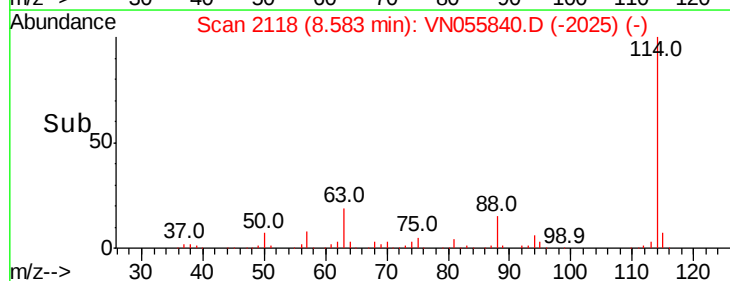
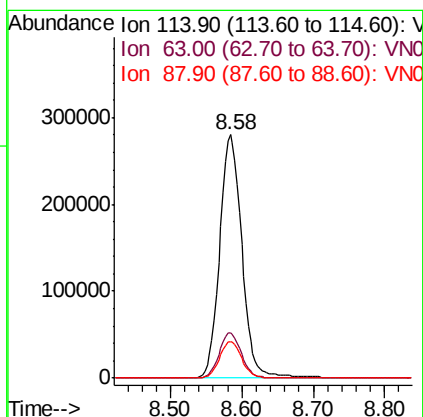
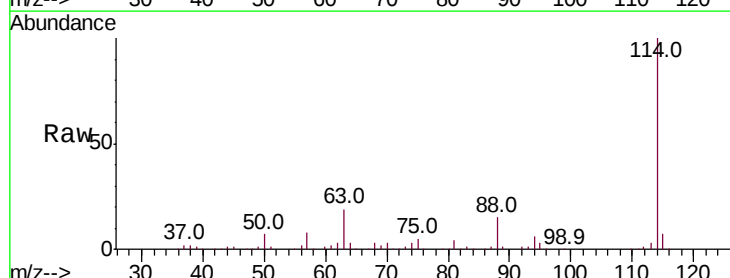
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528WBL01

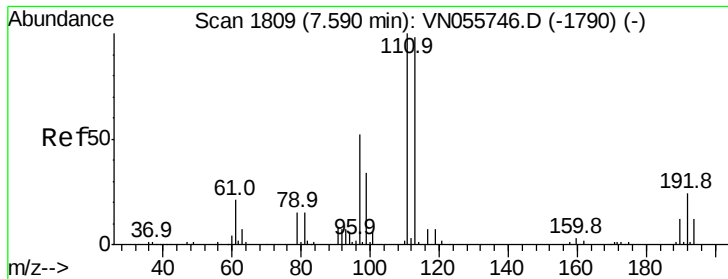
Tot Ion: 65 Resp: 199869
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055840.D
 Acq: 28 May 2019 9:55

Tgt Ion:114 Resp: 606414
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.0 0.0 31.0

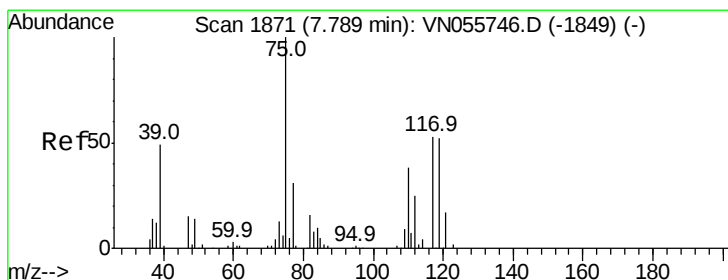
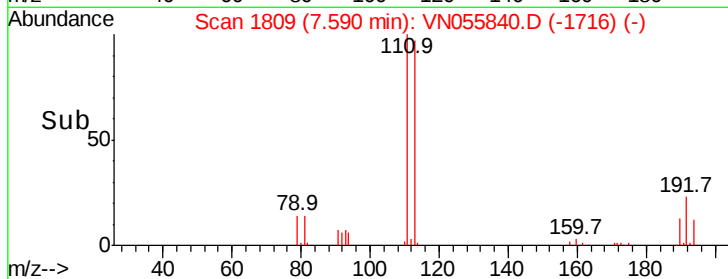
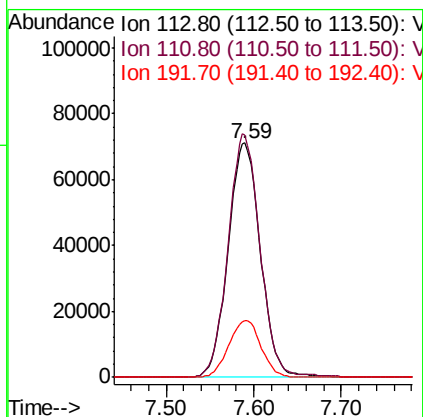
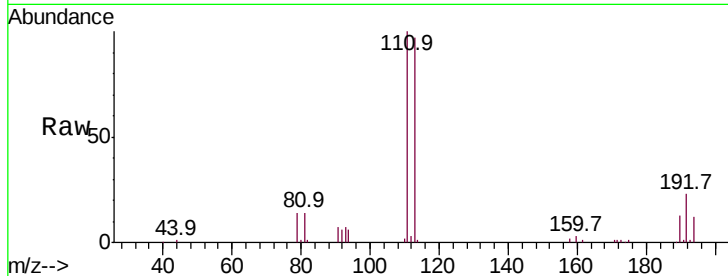




#35
 Dibromofluoromethane
 Concen: 47.575 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055840.D
 Acq: 28 May 2019 9:55

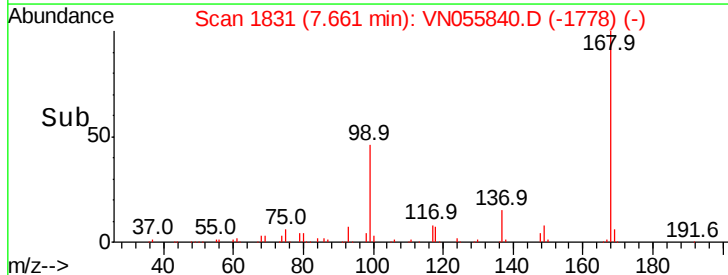
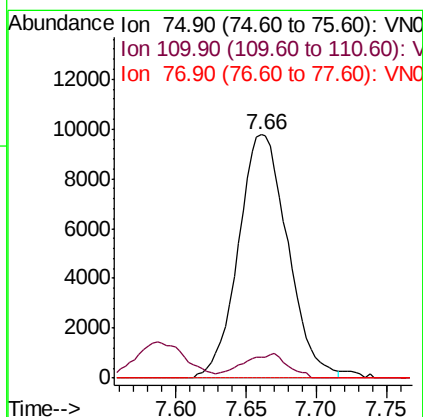
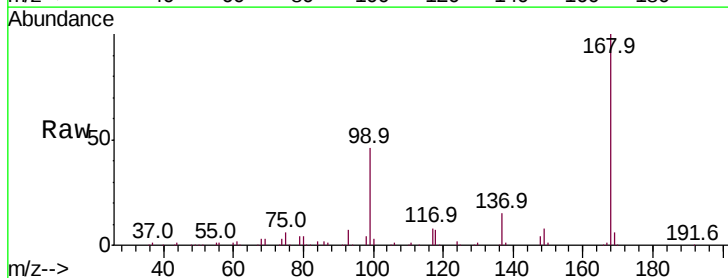
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528WBL01

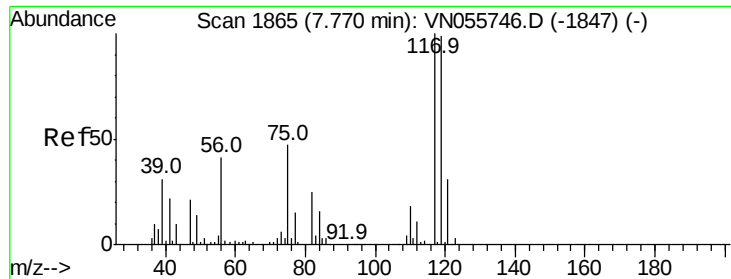
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.9	122.9
192	24.3	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.518 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055840.D
 Acq: 28 May 2019 9:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.259 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampleId :

VN0528WBL01

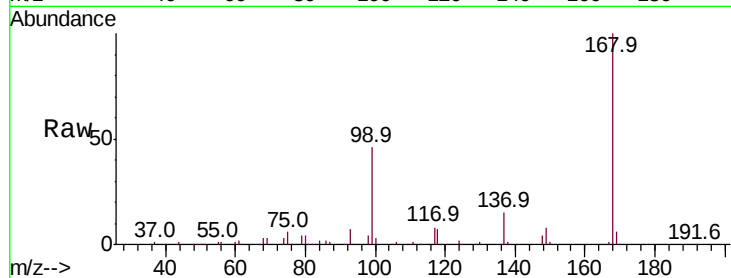
Tot Ion:117 Resp: 34455

Ion Ratio Lower Upper

117 100

119 4.8 79.0 118.6#

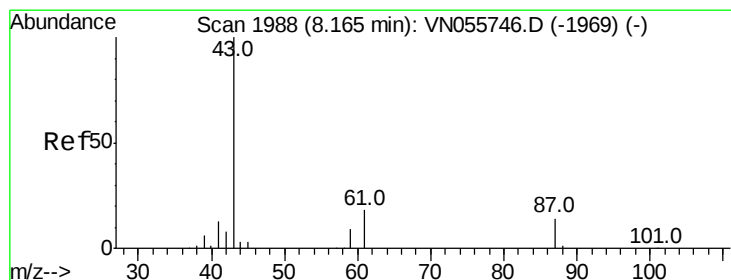
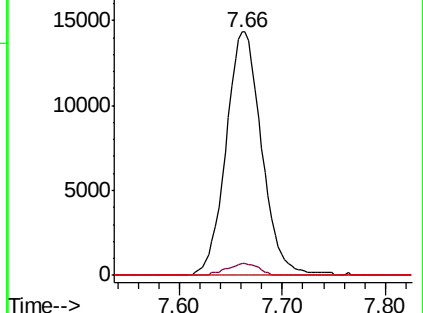
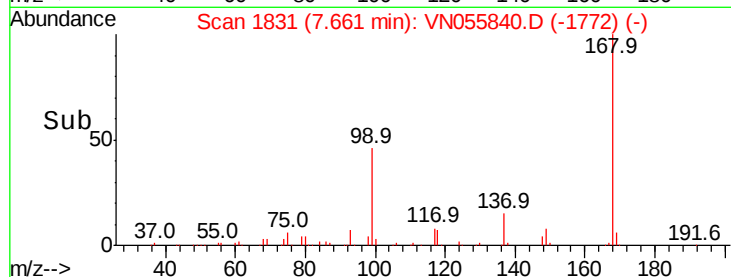
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 1.397 ug/l

RT: 8.35 min Scan# 2045

Delta R.T. 0.18 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

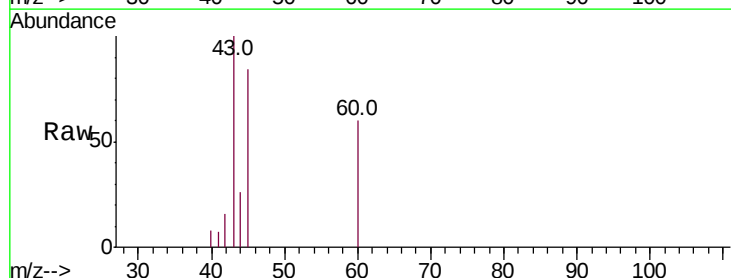
Tgt Ion: 43 Resp: 11987

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

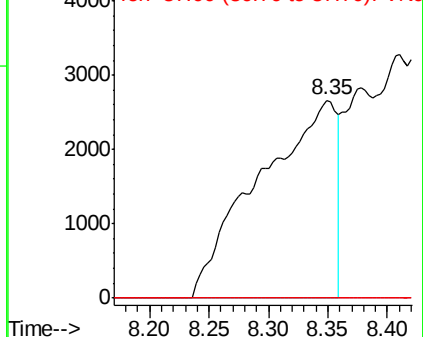
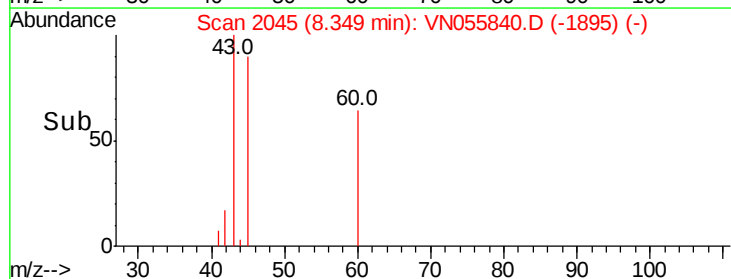
87 0.0 11.4 17.2#

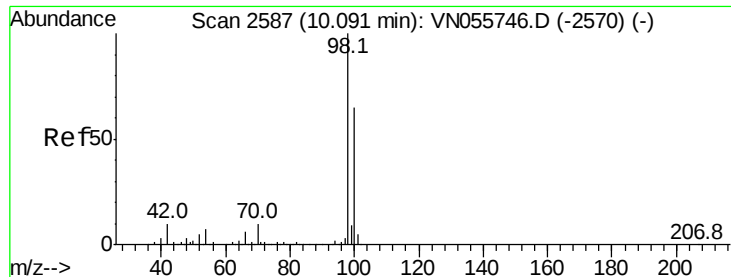


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 49.174 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampleId :

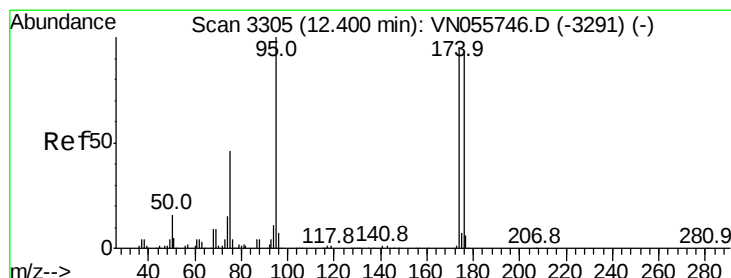
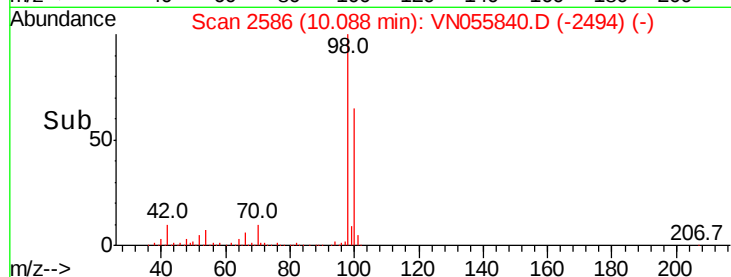
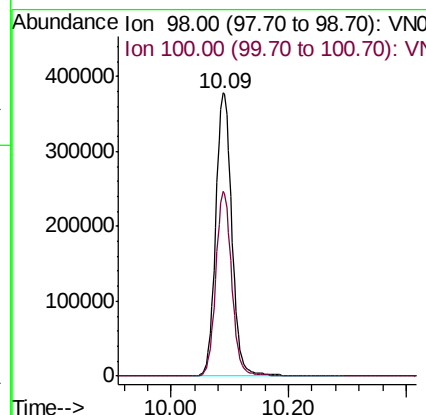
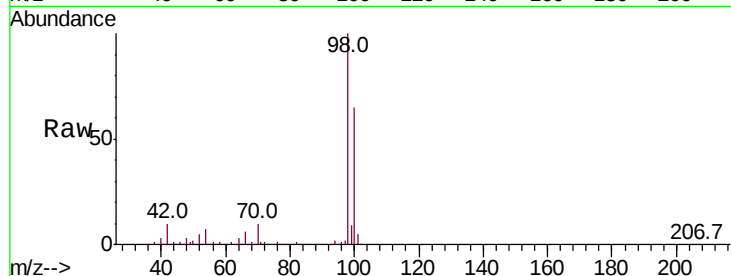
VN0528WBL01

Tot Ion: 98 Resp: 723186

Ion Ratio Lower Upper

98 100

100 64.2 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 46.732 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

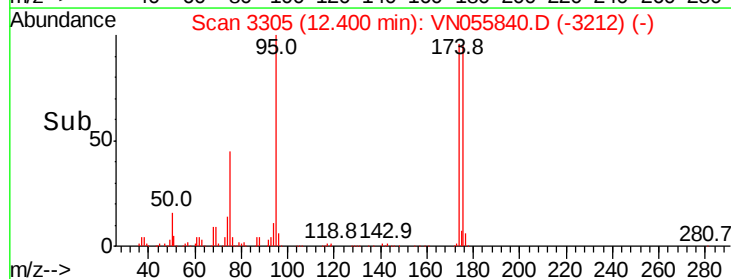
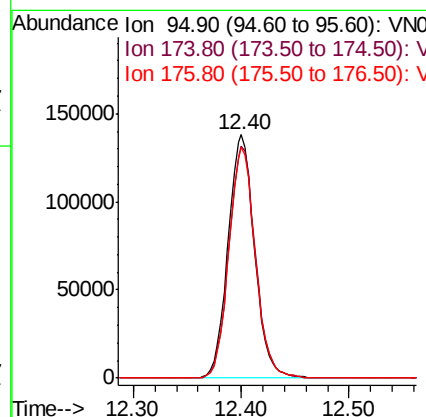
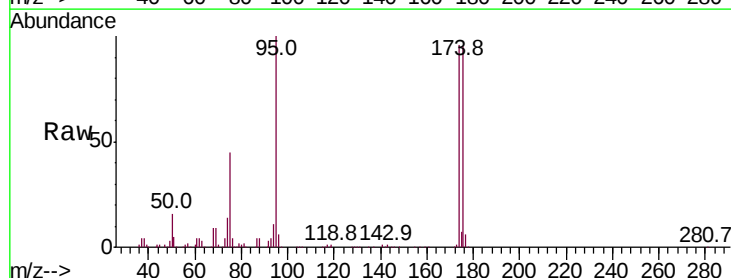
Tgt Ion: 95 Resp: 235656

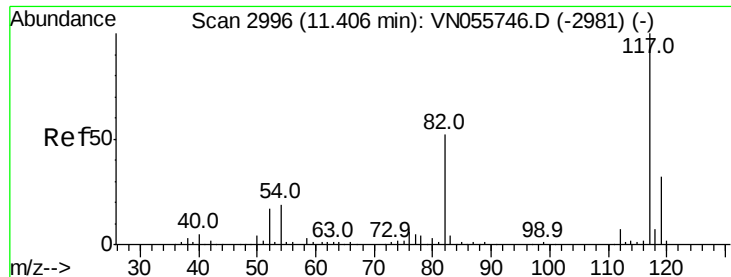
Ion Ratio Lower Upper

95 100

174 96.0 0.0 191.0

176 94.9 0.0 185.2

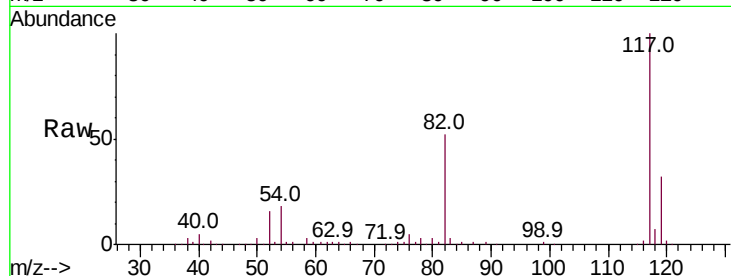




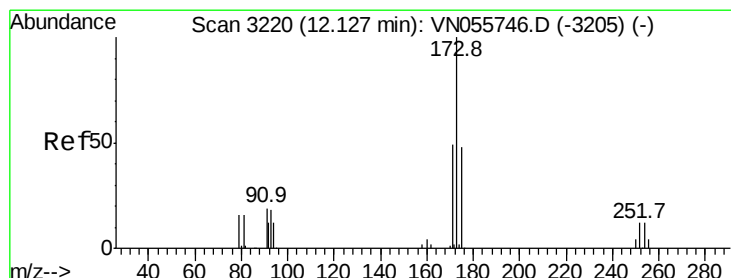
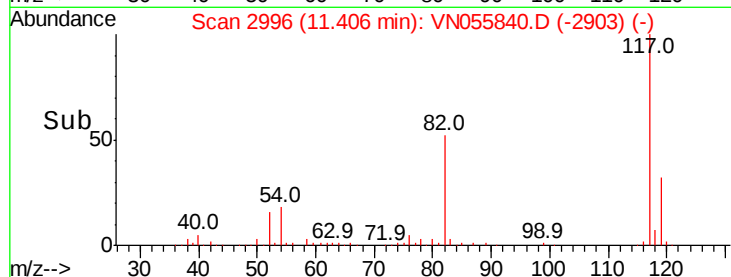
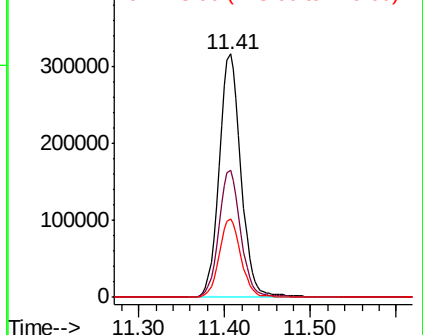
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055840.D
Acq: 28 May 2019 9:55

Instrument :
MSVOA_N
ClientSampleId :
VN0528WBL01

Tot Ion:117 Resp: 55517
Ion Ratio Lower Upper
117 100
82 52.0 41.8 62.8
119 32.1 25.4 38.0

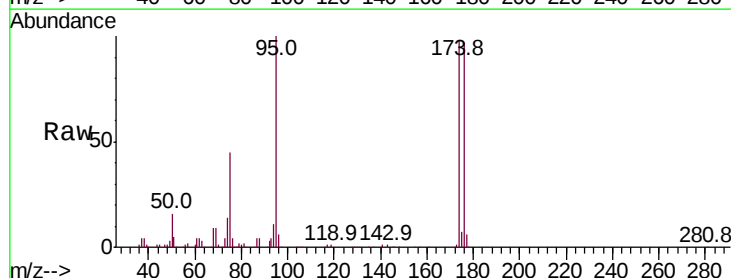


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

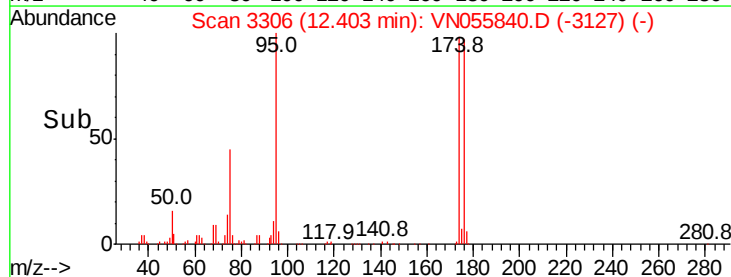
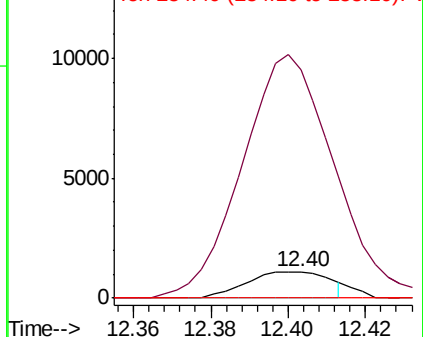


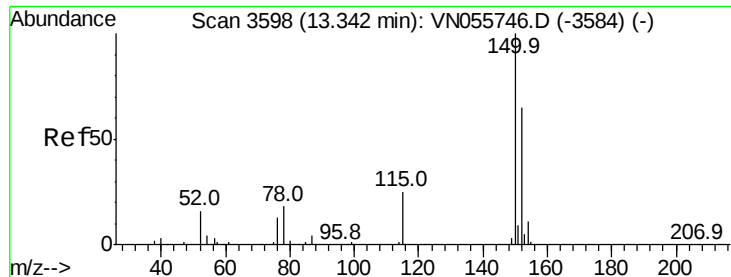
#71
Bromoform
Concen: 0.434 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055840.D
Acq: 28 May 2019 9:55

Tgt Ion:173 Resp: 1641
Ion Ratio Lower Upper
173 100
175 914.0 24.3 72.8#
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: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampled :

VN0528WBL01

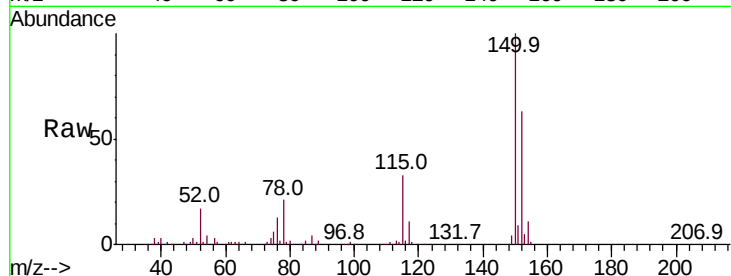
Tot Ion:152 Resp: 197984

Ion Ratio Lower Upper

152 100

115 52.4 27.0 81.0

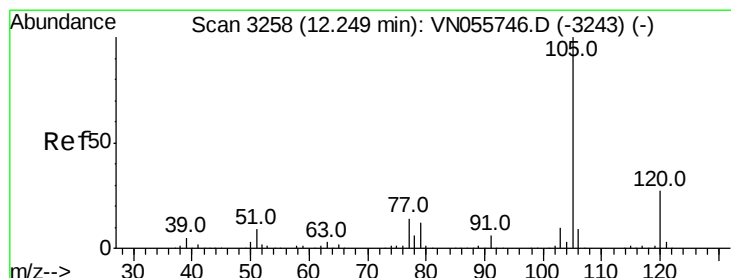
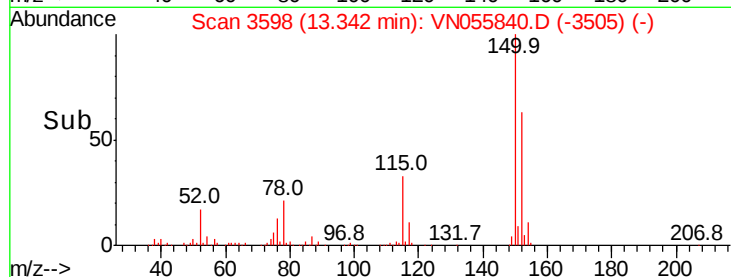
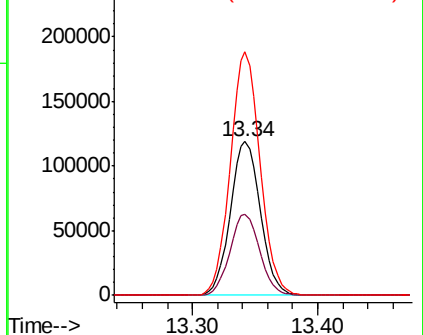
150 156.5 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055840.D

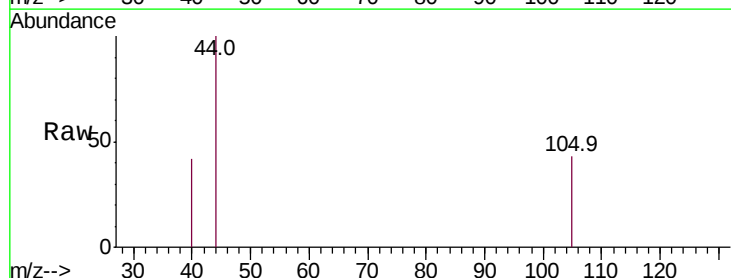
Acq: 28 May 2019 9:55

Tgt Ion:105 Resp: 337

Ion Ratio Lower Upper

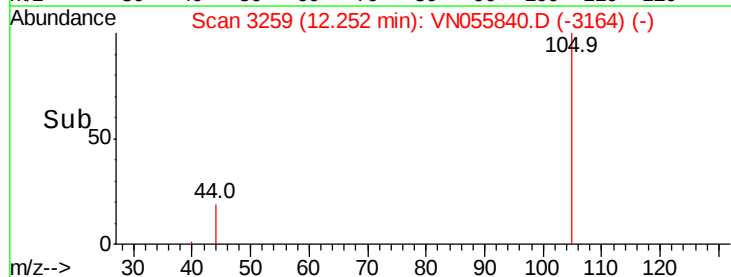
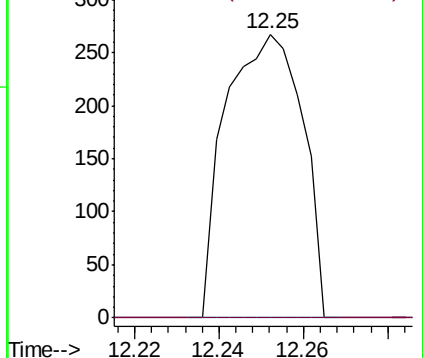
105 100

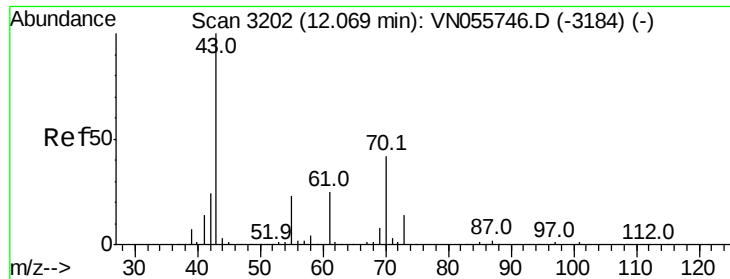
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3200

Delta R.T. -0.01 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampleId :

VN0528WBL01

Tot Ion: 43 Resp: 265

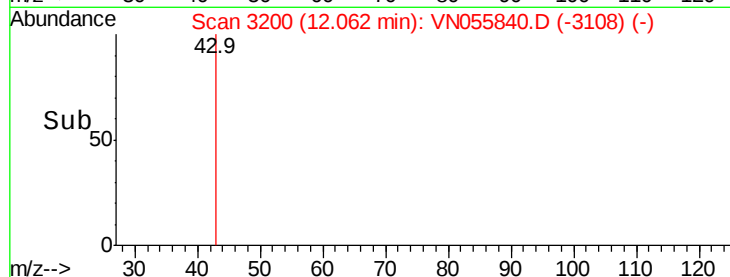
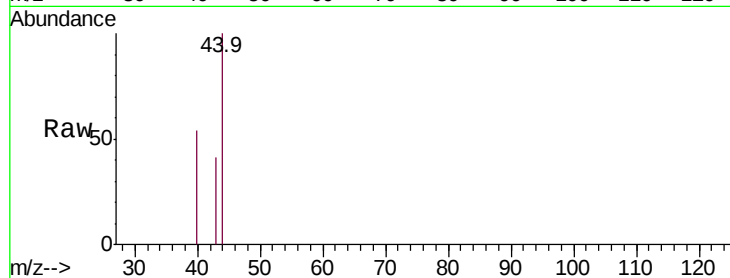
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

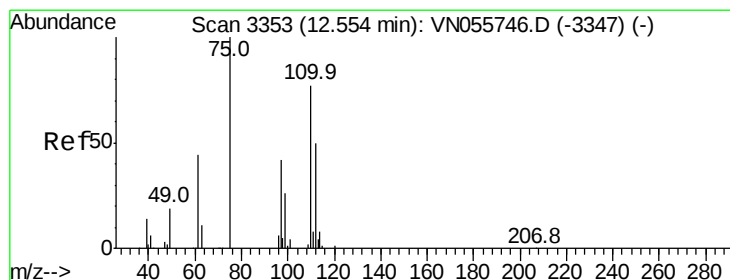
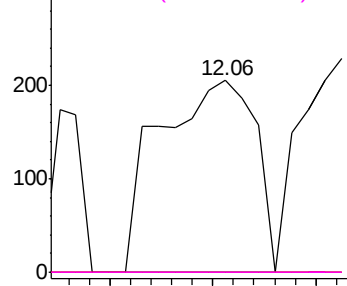


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 30.426 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055840.D

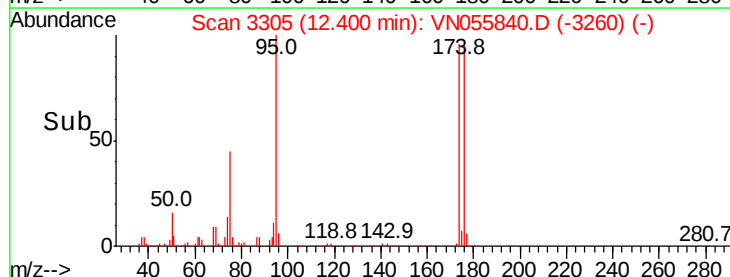
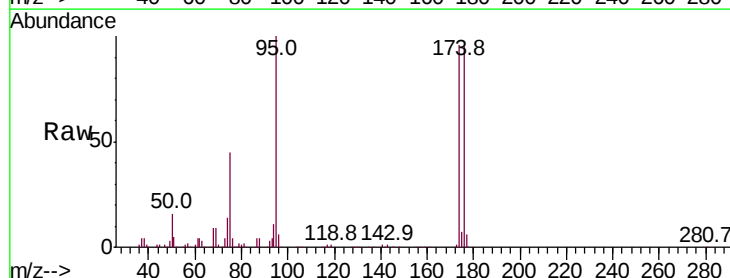
Acq: 28 May 2019 9:55

Tgt Ion: 75 Resp: 107928

Ion Ratio Lower Upper

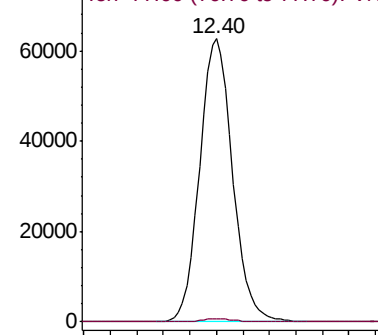
75 100

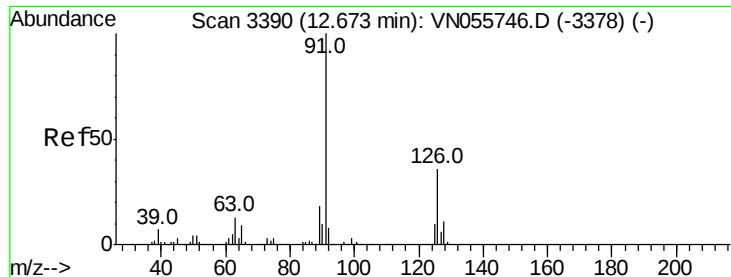
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampled :

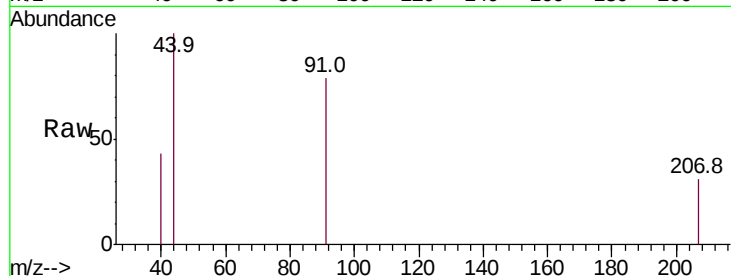
VN0528WBL01

Tot Ion: 91 Resp: 616

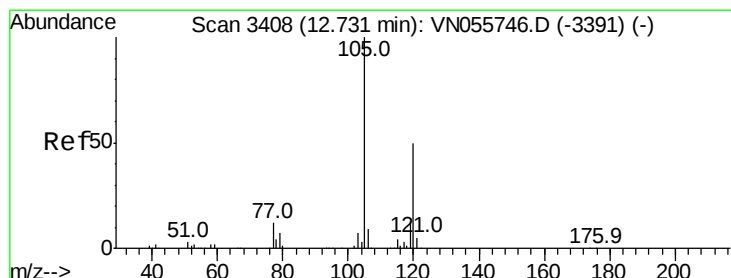
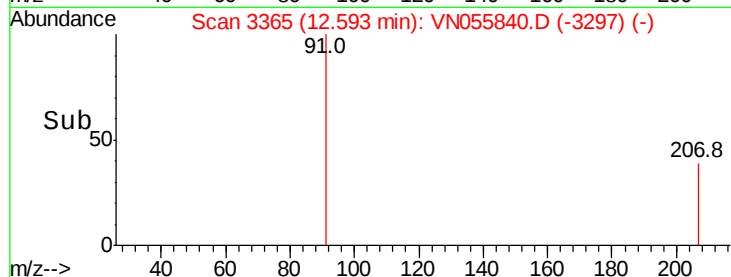
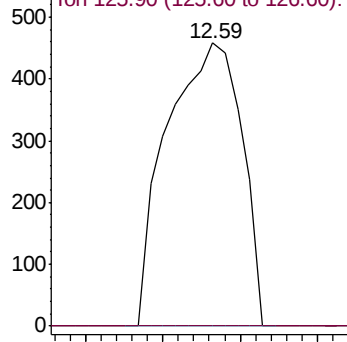
Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055746.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055840.D

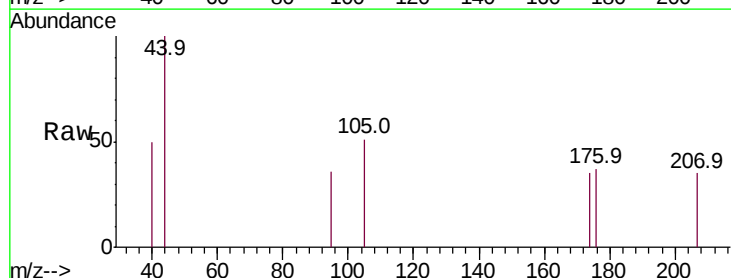
Acq: 28 May 2019 9:55

Tgt Ion: 105 Resp: 389

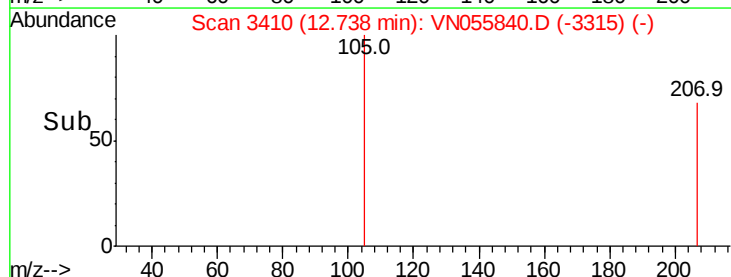
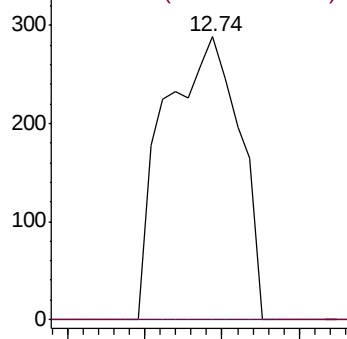
Ion Ratio Lower Upper

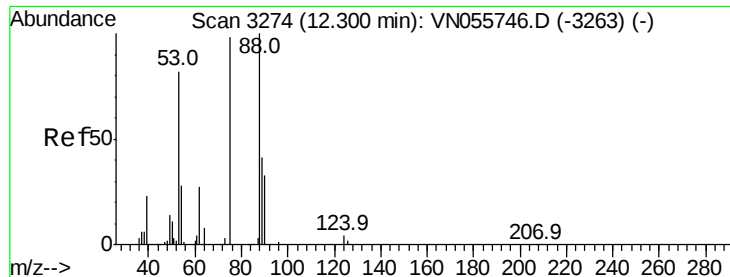
105 100

120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): VN055746.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 73.347 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampleId :

VN0528WBL01

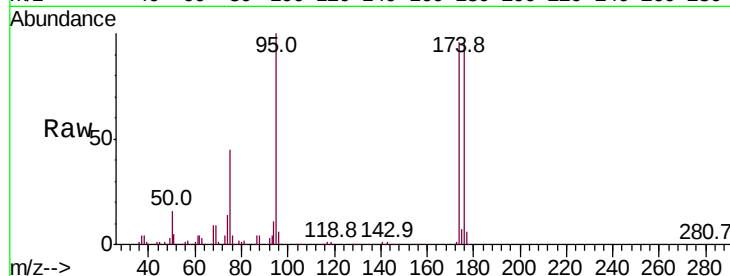
Tot Ion: 75 Resp: 107928

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

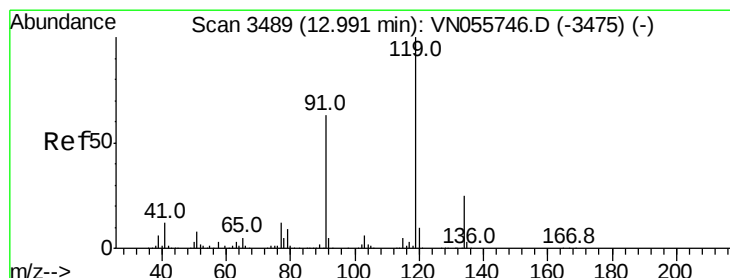
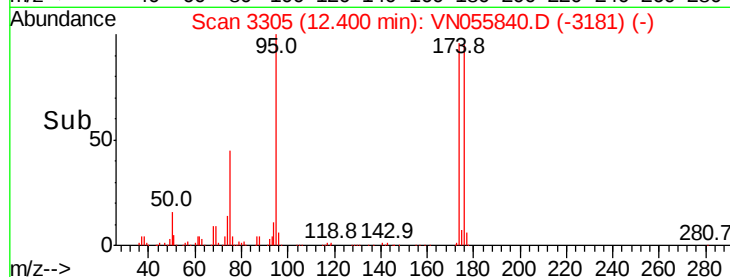
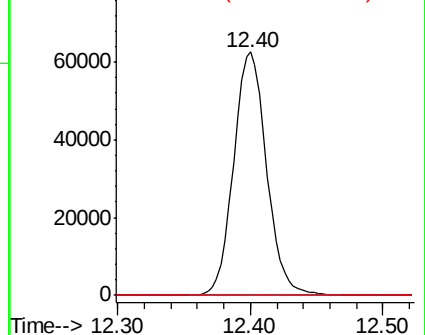
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055746.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN055746.D (-3263) (-)

Ion 88.90 (88.60 to 89.60): VN055746.D (-3263) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

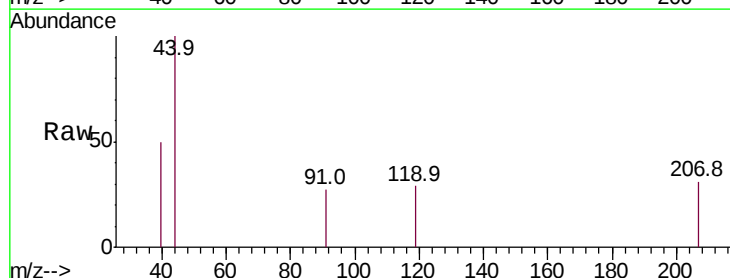
Tgt Ion: 119 Resp: 93

Ion Ratio Lower Upper

119 100

91 32.3 30.9 92.8

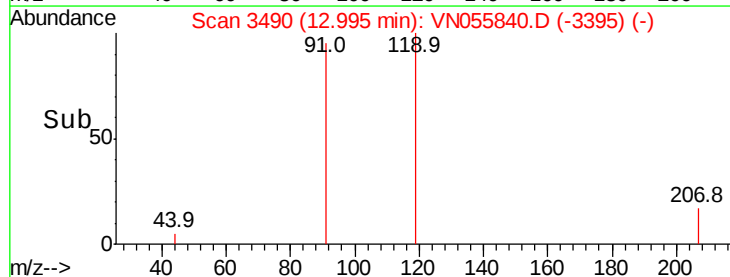
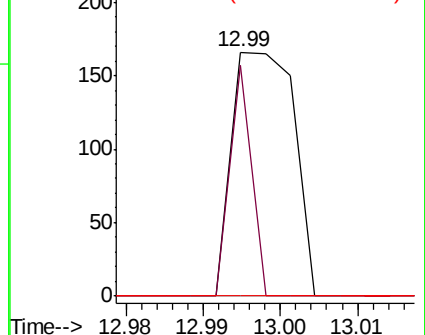
134 0.0 13.3 39.8#

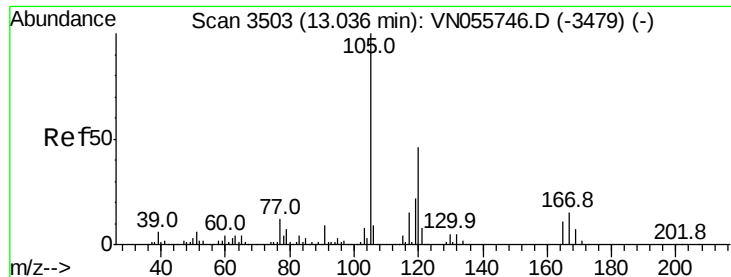


Abundance Ion 119.00 (118.70 to 119.70): VN055746.D (-3475) (-)

Ion 91.00 (90.70 to 91.70): VN055746.D (-3475) (-)

Ion 134.00 (133.70 to 134.70): VN055746.D (-3475) (-)

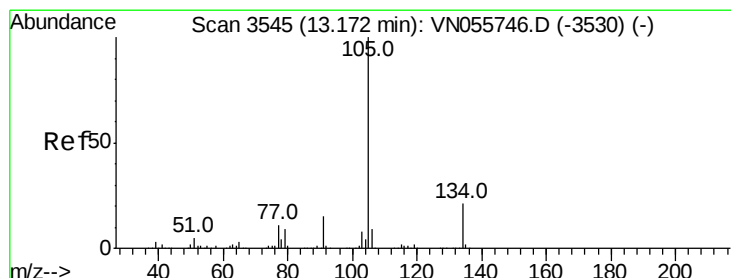
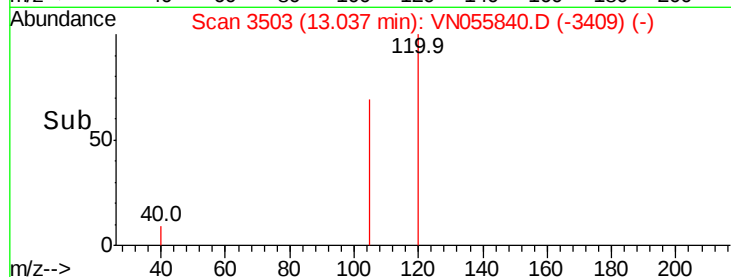
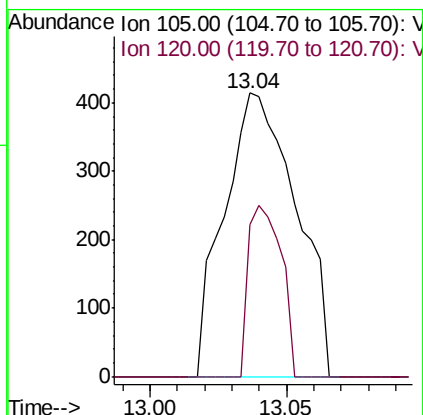
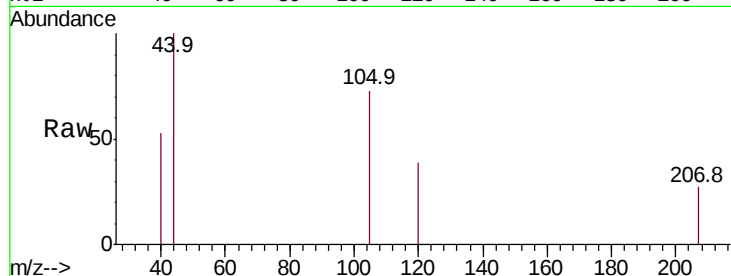




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN055840.D
 Acq: 28 May 2019 9:55

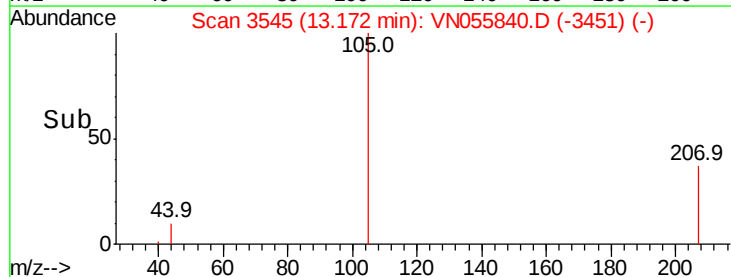
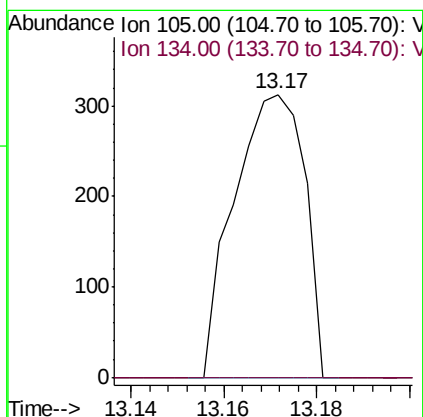
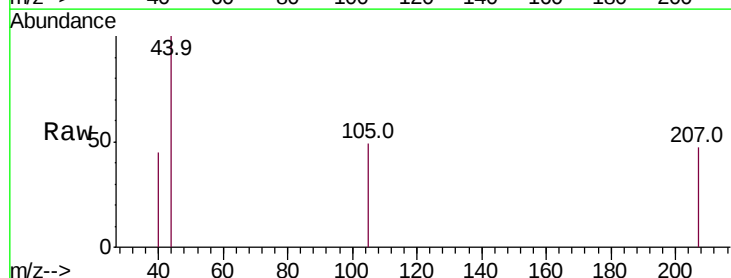
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528WBL01

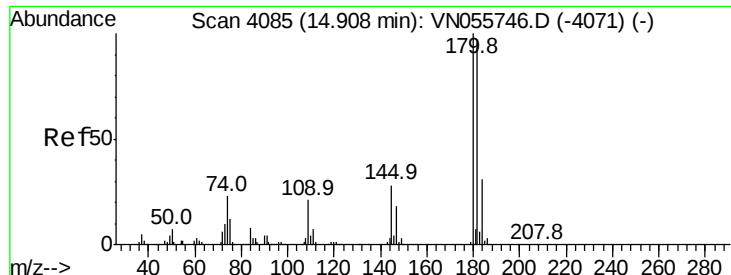
Tot Ion:105 Resp: 758
 Ion Ratio Lower Upper
 105 100
 120 27.2 23.0 69.0



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055840.D
 Acq: 28 May 2019 9:55

Tgt Ion:105 Resp: 331
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#





#93

1,2,4-Trichlorobenzene

Concen: 3.806 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055840.D

Acq: 28 May 2019 9:55

Instrument :

MSVOA_N

ClientSampleId :

VN0528WBL01

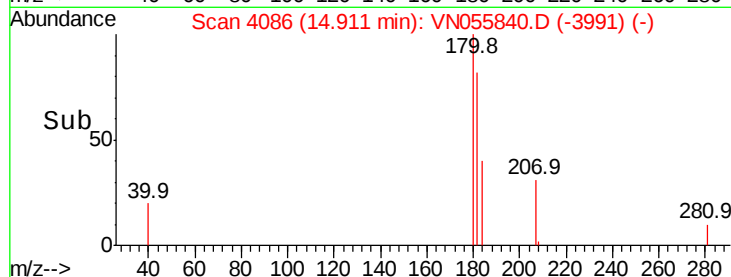
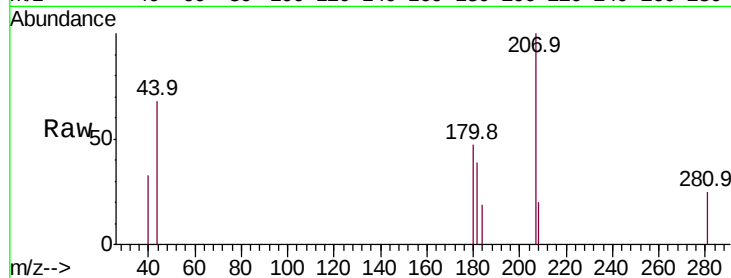
Tot Ion:180 Resp: 702

Ion Ratio Lower Upper

180 100

182 82.8 48.3 144.9

145 4.4 14.0 41.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

