

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055621.D
 Acq On : 17 May 2019 19:31
 Operator : JC/SP
 Sample : K2902-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:11:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	419438	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	590933	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	491941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	193544	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	197600	42.98	ug/l	0.00
Spiked Amount			Recovery	=	85.96%	
35) Dibromofluoromethane	7.59	113	182712	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	10.09	98	680217	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
62) 4-Bromofluorobenzene	12.40	95	217375	44.35	ug/l	0.00
Spiked Amount			Recovery	=	88.70%	

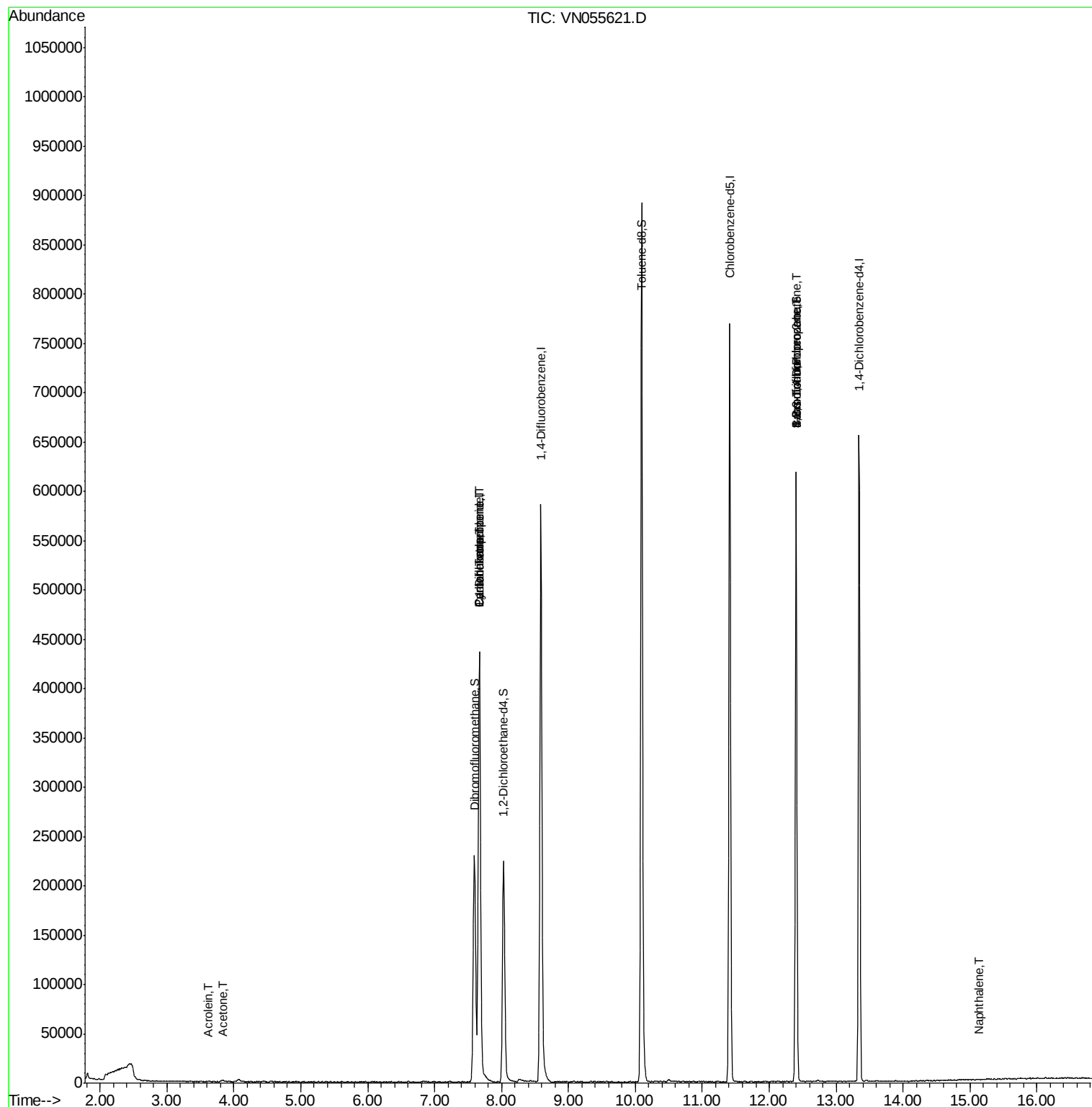
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	29	1.428	ug/l #	1
16) Acetone	3.82	43	973	0.519	ug/l	89
31) Cyclohexane	7.67	56	6403	0.939	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	24678	4.684	ug/l #	49
38) Carbon Tetrachloride	7.67	117	34923	6.203	ug/l #	14
71) Bromoform	12.40	173	1199	0.353	ug/l #	1
73) Isopropylbenzene	12.24	105	62	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	100255	25.385	ug/l #	100
79) 2-Chlorotoluene	12.68	91	191	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	143	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	100255	65.256	ug/l #	17
83) tert-Butylbenzene	13.00	119	64	Below Cal	#	28
84) 1,2,4-Trimethylbenzene	13.04	105	223	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	392	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	280	Below Cal	#	51
95) Naphthalene	15.13	128	378	1.800	ug/l #	69

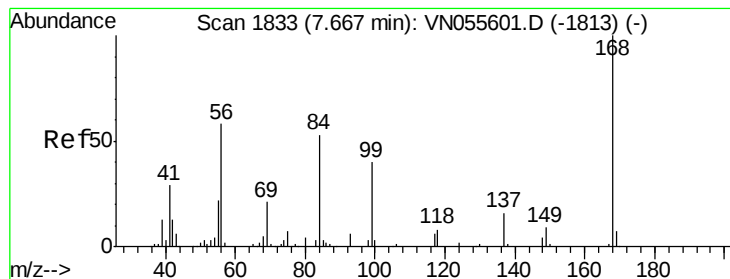
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

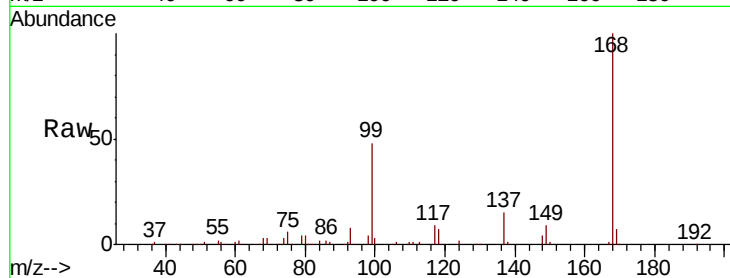
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 419438

Ion Ratio Lower Upper

168 100

99 48.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

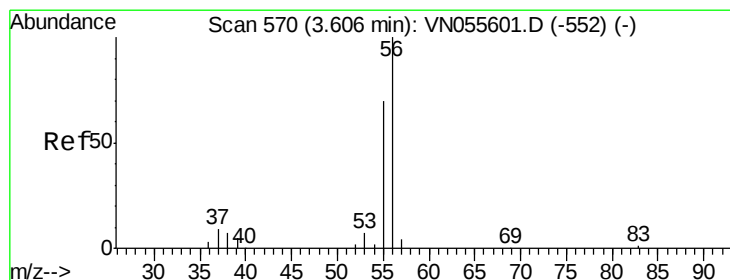
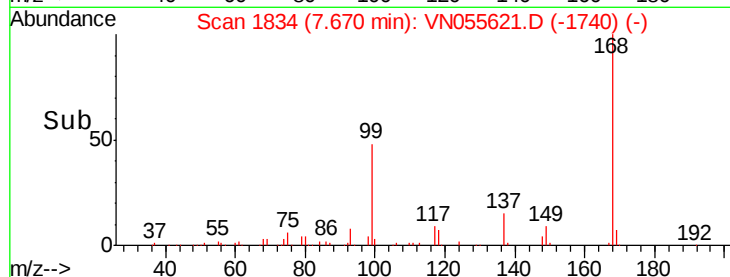
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#13

Acrolein

Concen: 1.428 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN055621.D

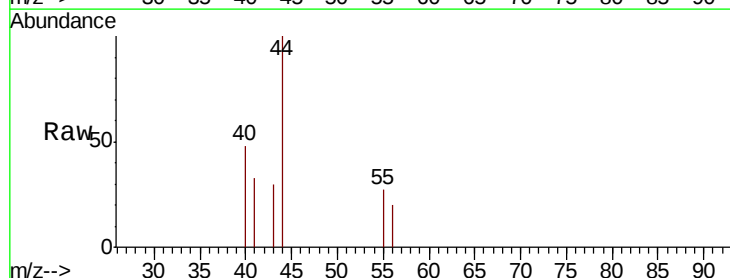
Acq: 17 May 2019 19:31

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 1079.3 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

250

200

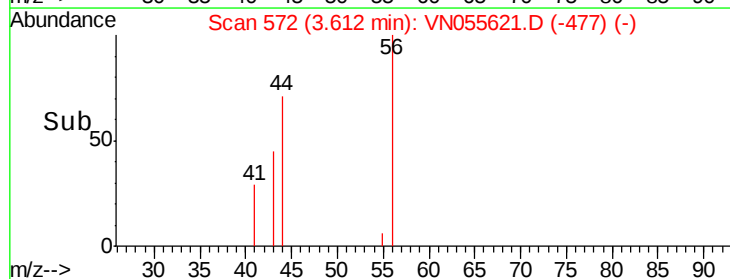
150

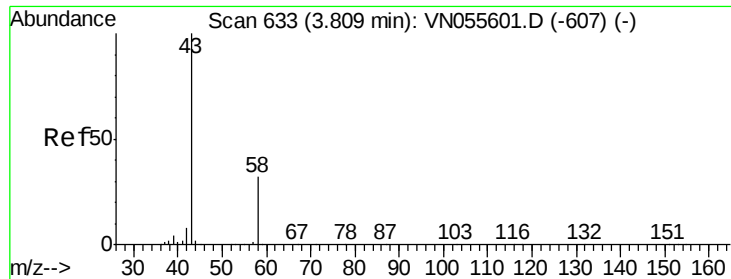
100

50

0

Time--> 3.60 3.61 3.62 3.63 3.64





#16

Acetone

Concen: 0.519 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :

MSVOA_N

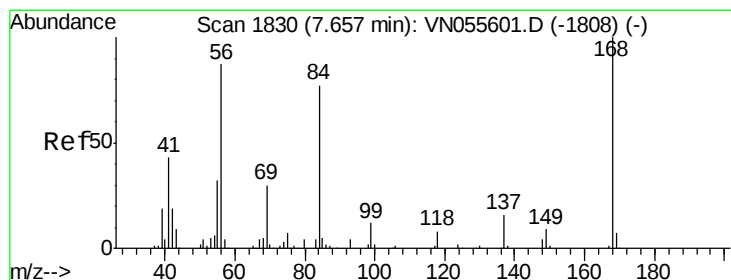
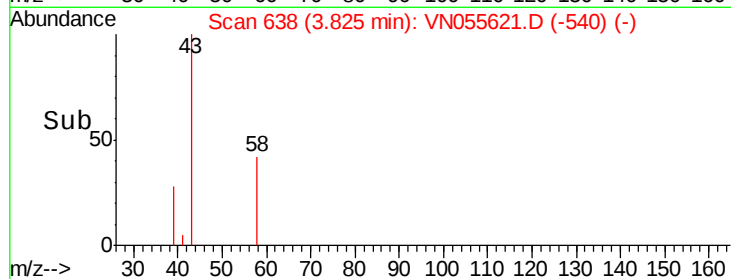
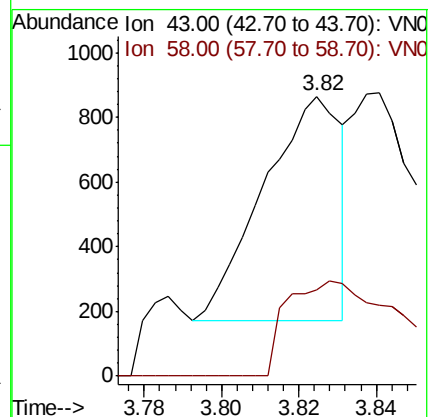
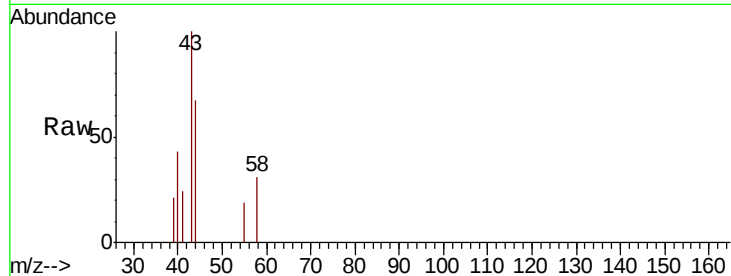
ClientSampleId :

Tot Ion: 43 Resp: 973

Ion Ratio Lower Upper

43 100

58 38.5 26.0 39.0



#31

Cyclohexane

Concen: 0.939 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

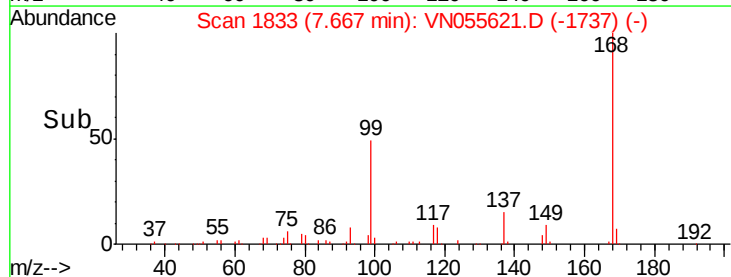
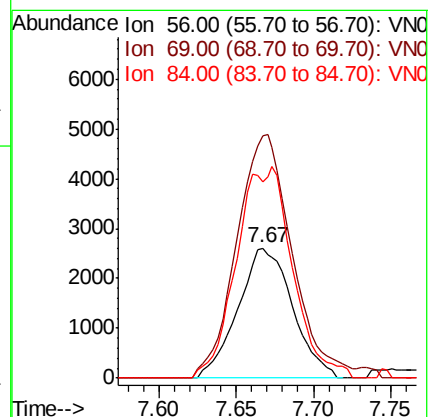
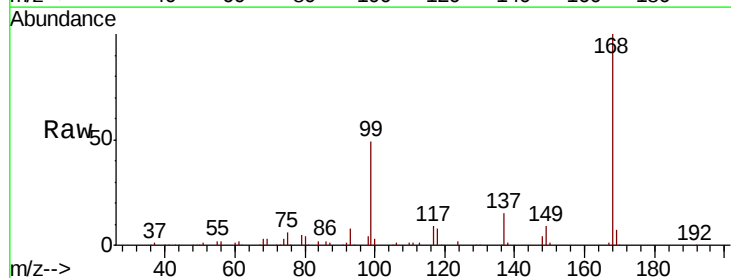
Tgt Ion: 56 Resp: 6403

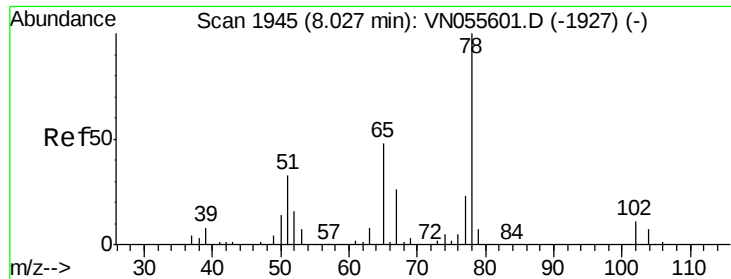
Ion Ratio Lower Upper

56 100

69 187.1 27.2 40.8#

84 151.3 71.3 106.9#

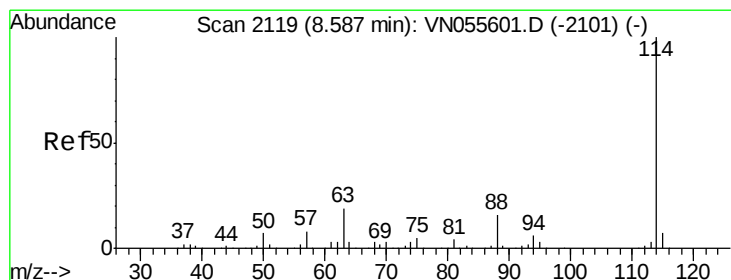
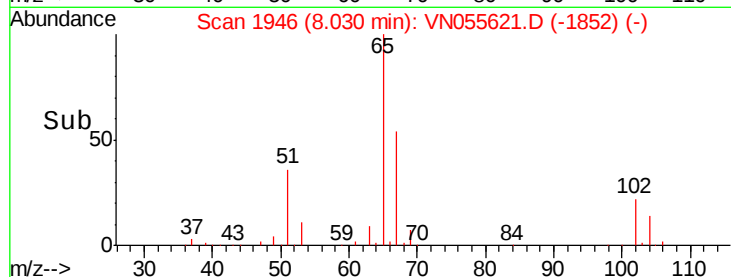
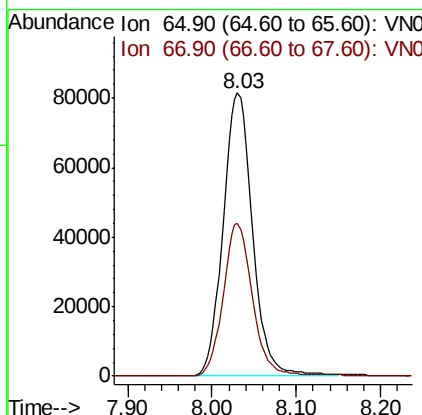
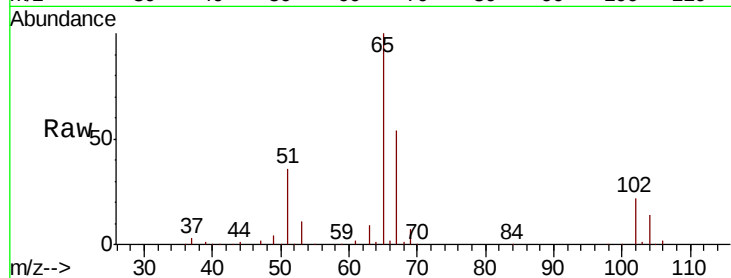




#33
 1,2-Dichloroethane-d4
 Concen: 42.976 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055621.D
 Acq: 17 May 2019 19:31

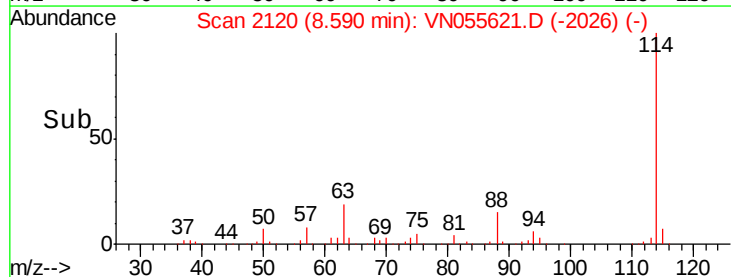
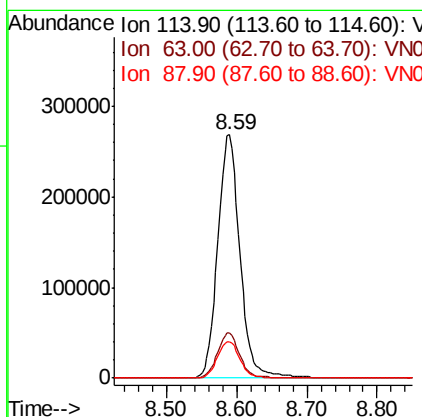
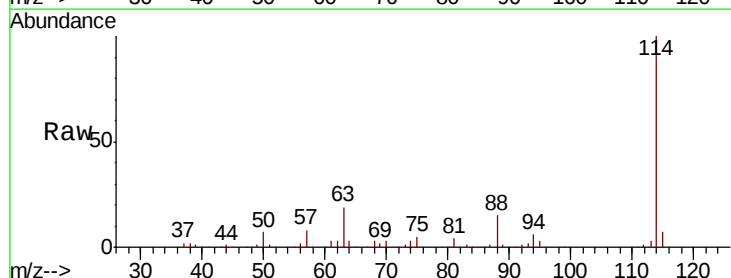
Instrument :
 MSVOA_N
 ClientSampled :

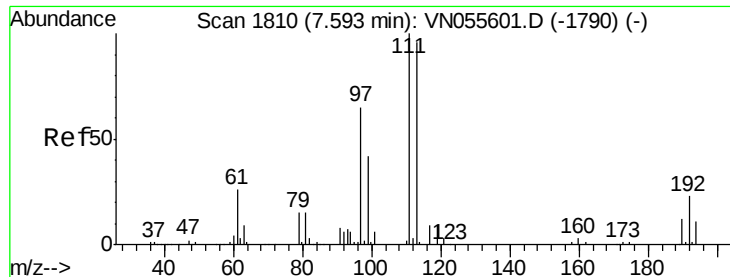
Tot Ion: 65 Resp: 197600
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN055621.D
 Acq: 17 May 2019 19:31

Tgt Ion: 114 Resp: 590933
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.2
 88 15.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.673 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :
MSVOA_N
ClientSampleId :

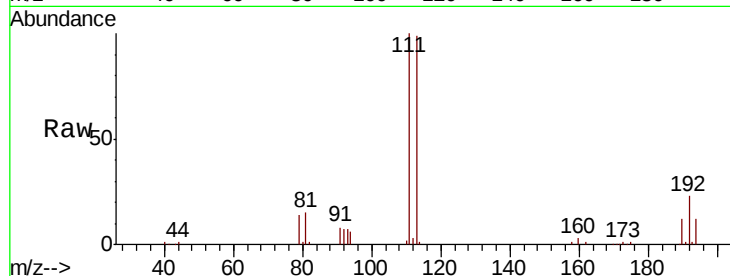
Tot Ion:113 Resp: 182712

Ion Ratio Lower Upper

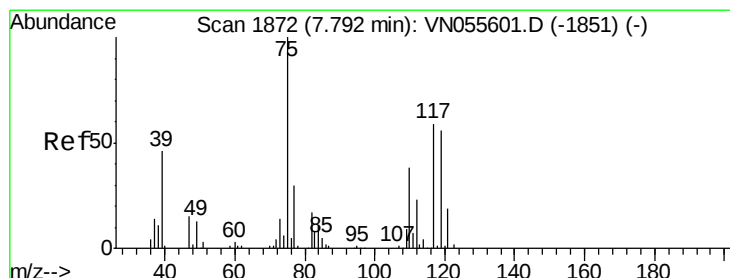
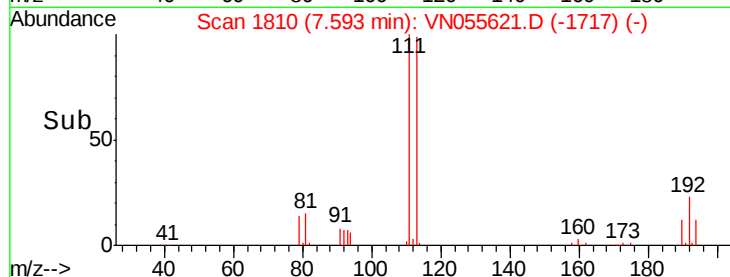
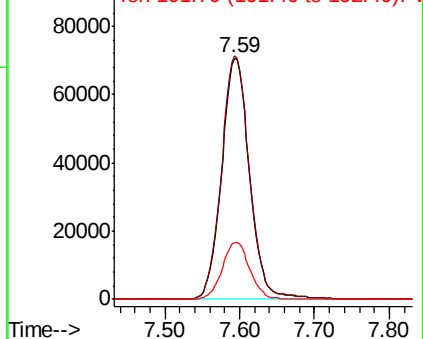
113 100

111 101.3 82.5 123.7

192 23.5 18.7 28.1



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: 4.684 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

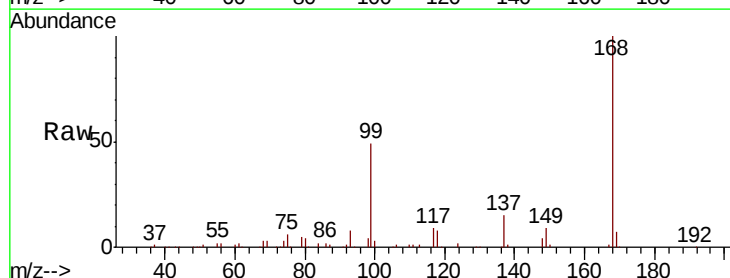
Tgt Ion: 75 Resp: 24678

Ion Ratio Lower Upper

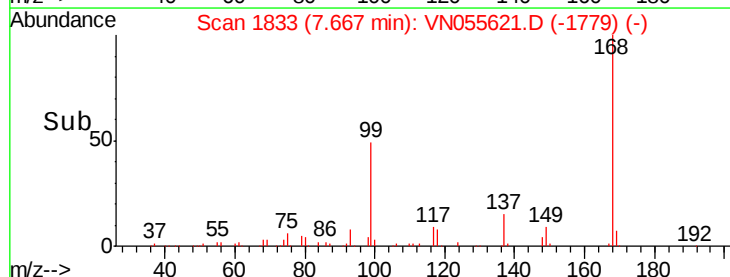
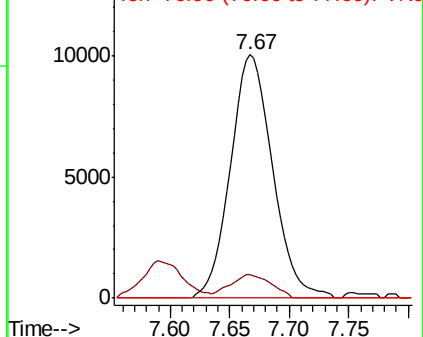
75 100

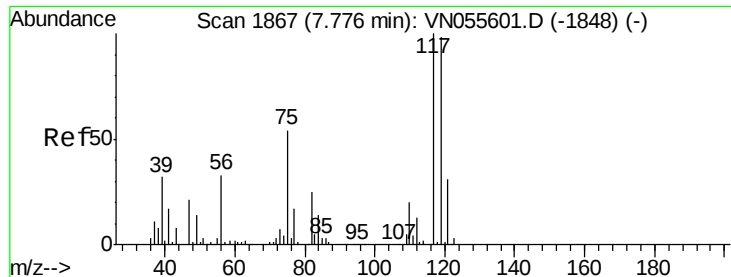
110 9.3 18.6 55.6#

77 0.0 24.9 37.3#



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





#38

Carbon Tetrachloride

Concen: 6.203 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :

MSVOA_N

ClientSampleId :

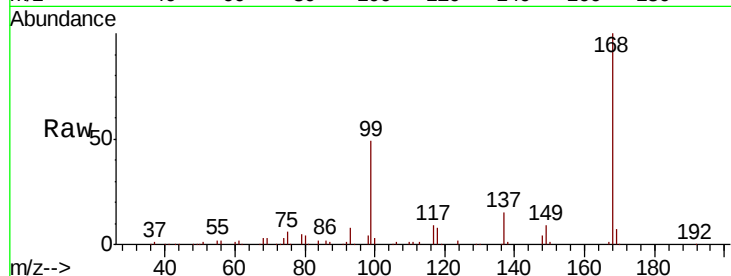
Tot Ion:117 Resp: 34923

Ion Ratio Lower Upper

117 100

119 3.9 77.8 116.8#

121 0.0 24.6 37.0#

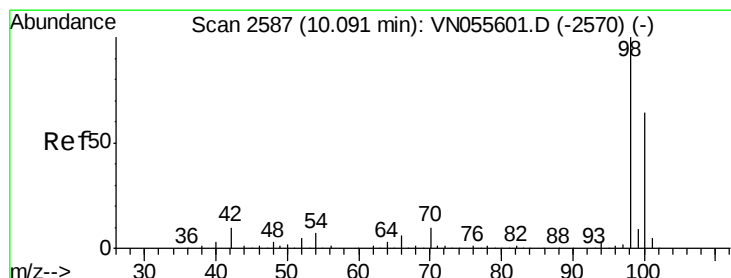
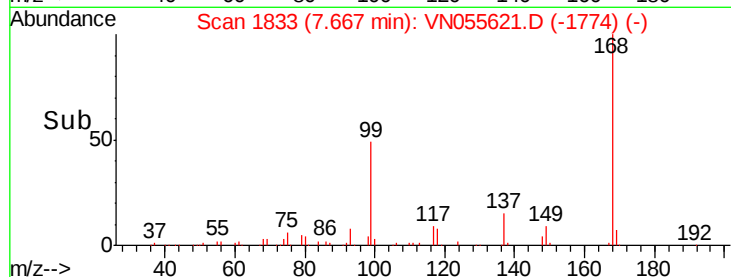
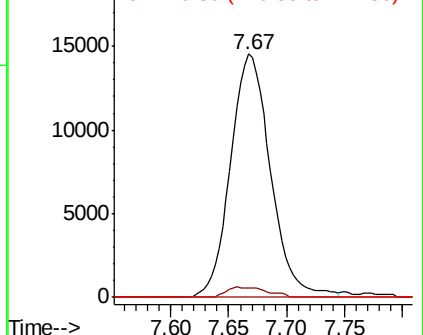


Abundance

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



#50

Toluene-d8

Concen: 47.923 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055621.D

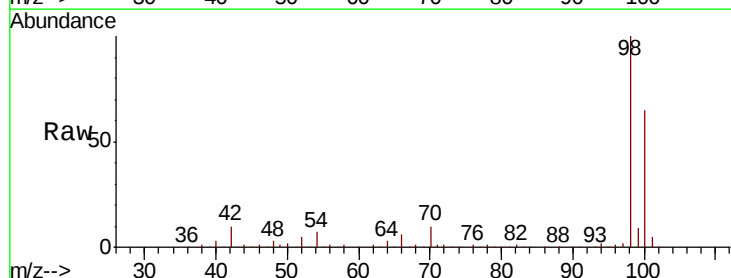
Acq: 17 May 2019 19:31

Tgt Ion: 98 Resp: 680217

Ion Ratio Lower Upper

98 100

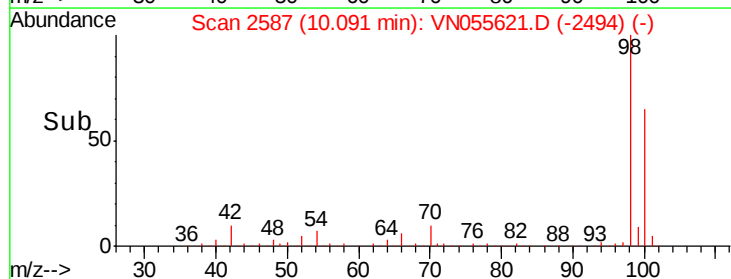
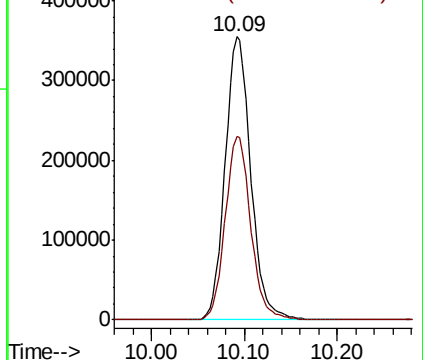
100 64.5 51.9 77.9

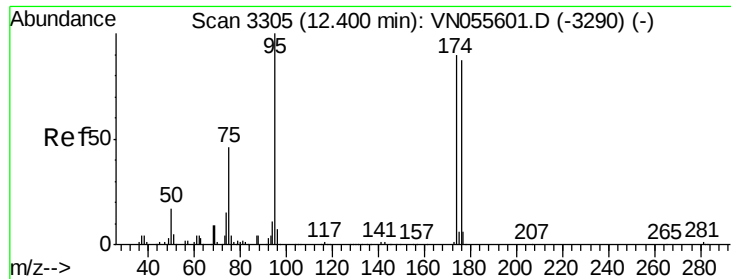


Abundance

Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

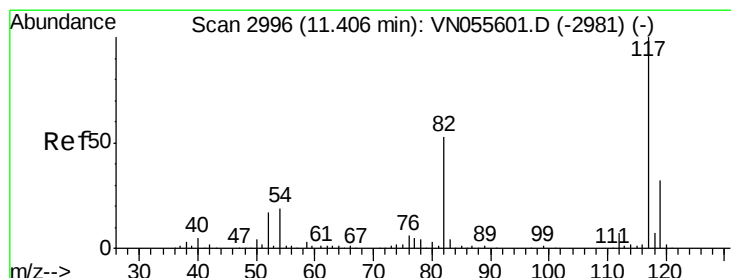
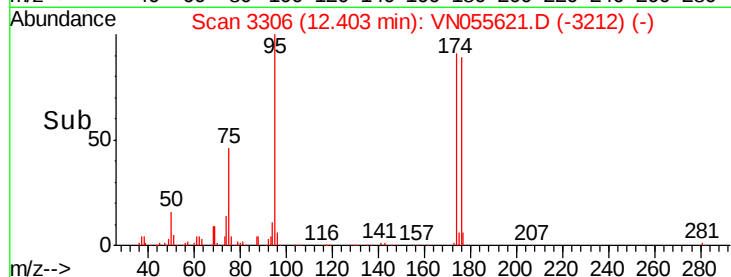
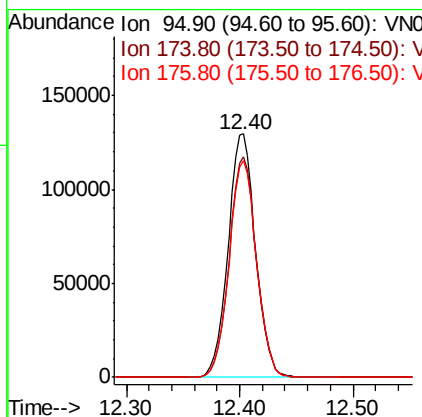
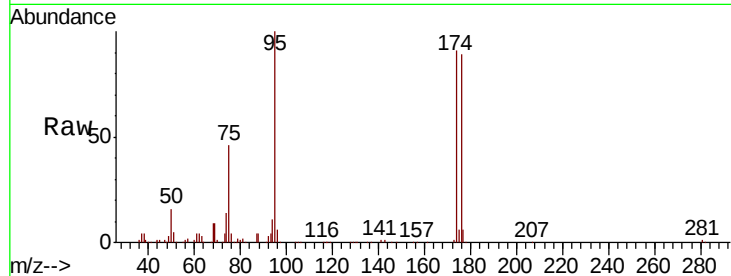




#62
4-Bromofluorobenzene
Concen: 44.350 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN055621.D
Acq: 17 May 2019 19:31

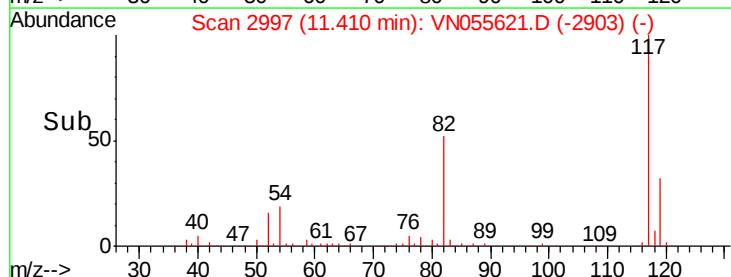
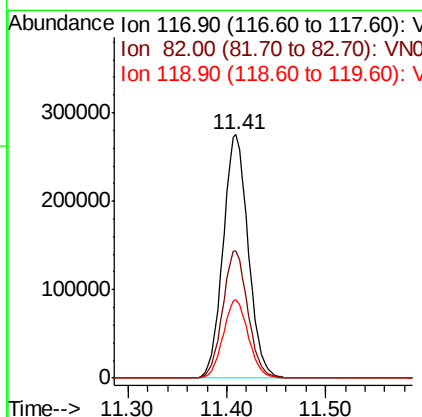
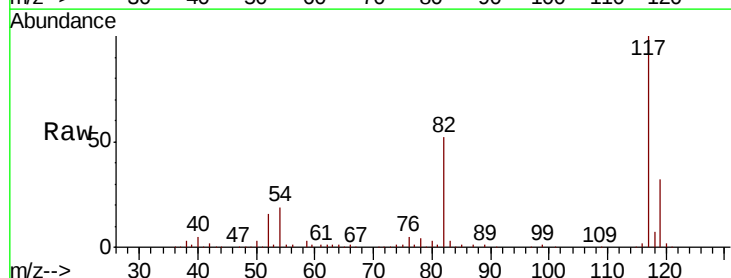
Instrument :
MSVOA_N
ClientSampleId :

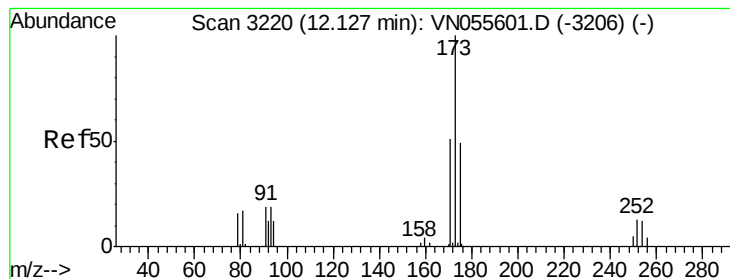
Tot Ion: 95 Resp: 217375
Ion Ratio Lower Upper
95 100
174 90.4 0.0 180.6
176 89.0 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055621.D
Acq: 17 May 2019 19:31

Tgt Ion: 117 Resp: 491941
Ion Ratio Lower Upper
117 100
82 52.3 42.3 63.5
119 32.0 25.4 38.2





#71

Bromoform

Concen: 0.353 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :

MSVOA_N

ClientSampled :

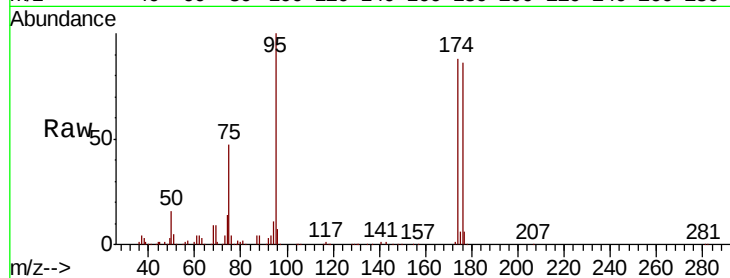
Tot Ion:173 Resp: 1199

Ion Ratio Lower Upper

173 100

175 1016.0 24.3 72.9#

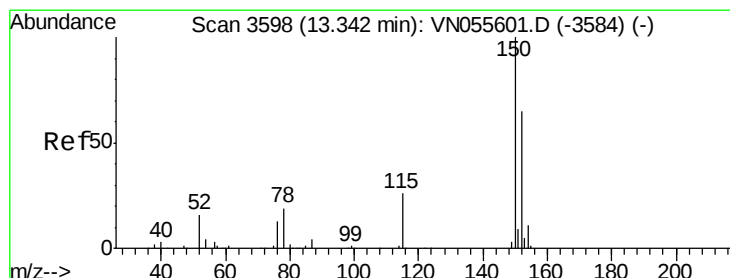
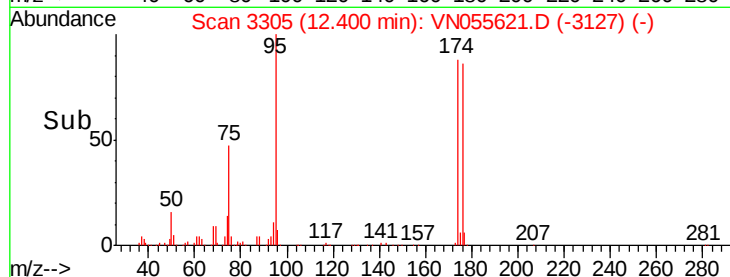
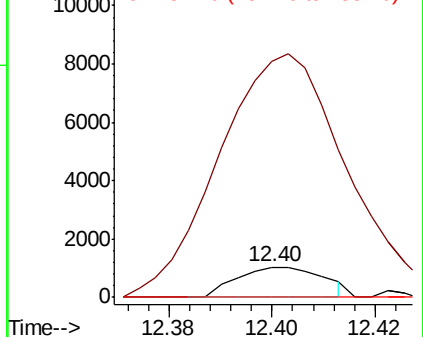
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

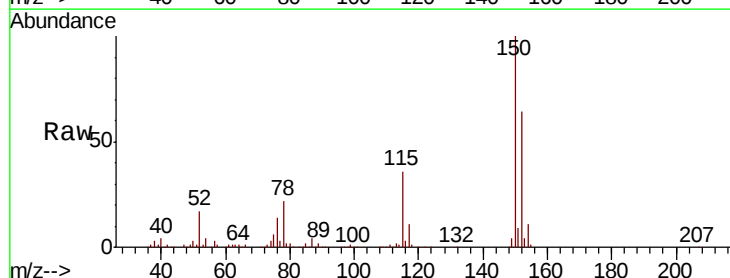
Tgt Ion:152 Resp: 193544

Ion Ratio Lower Upper

152 100

115 55.7 28.1 84.2

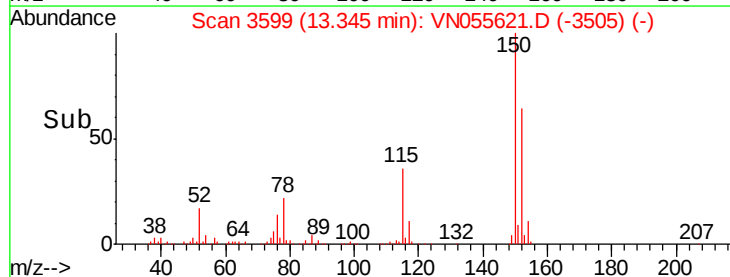
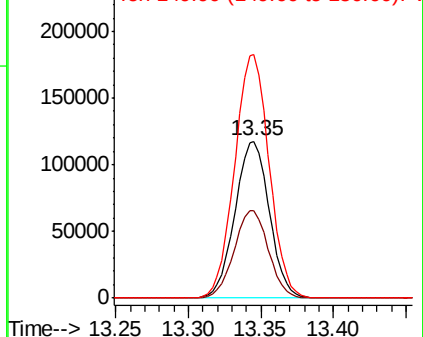
150 156.0 0.0 348.0

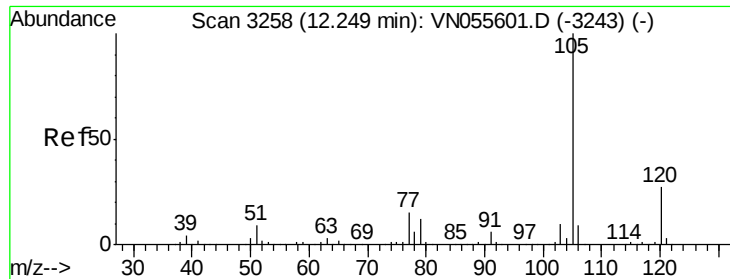


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :

MSVOA_N

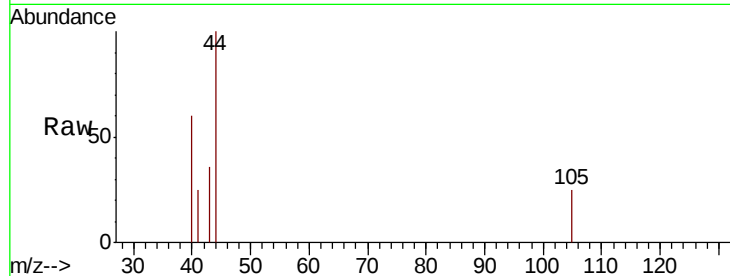
ClientSampleId :

Tot Ion:105 Resp: 62

Ion Ratio Lower Upper

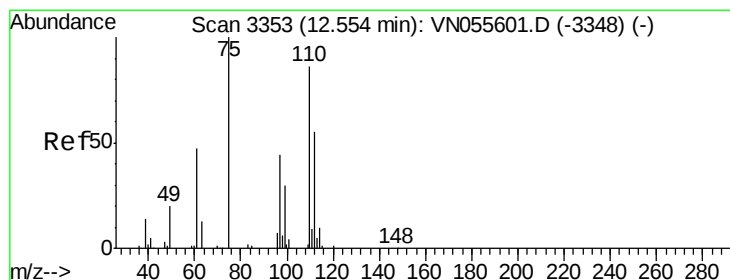
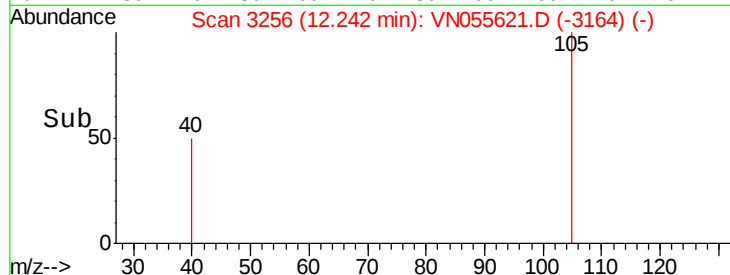
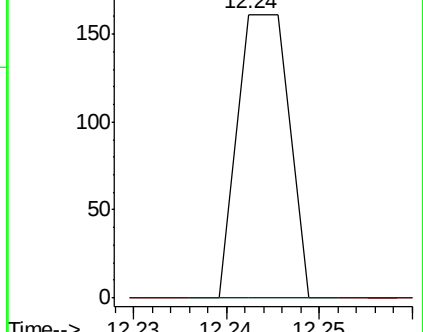
105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 25.385 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055621.D

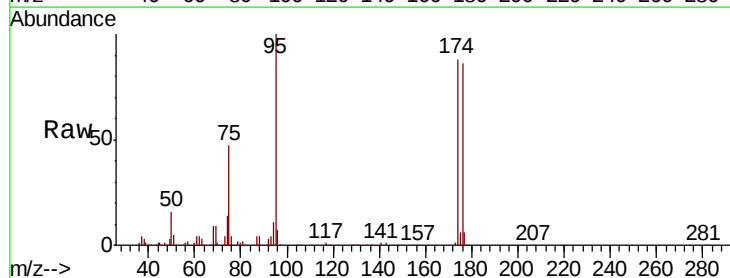
Acq: 17 May 2019 19:31

Tgt Ion: 75 Resp: 100255

Ion Ratio Lower Upper

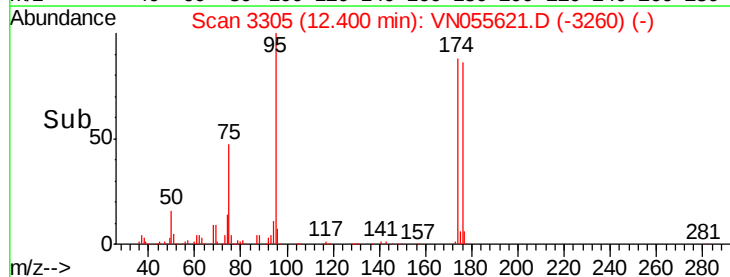
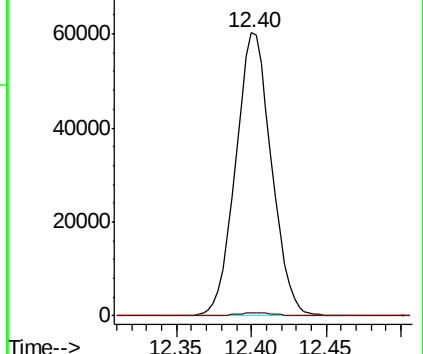
75 100

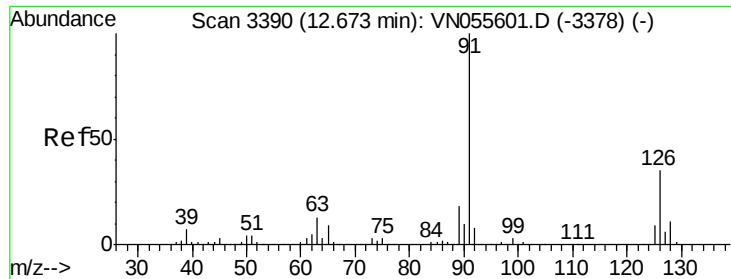
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :

MSVOA_N

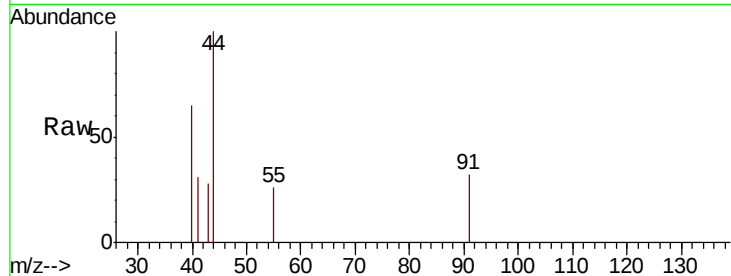
ClientSampled :

Tot Ion: 91 Resp: 191

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055601.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055601.D (-3378) (-)

12.68

150

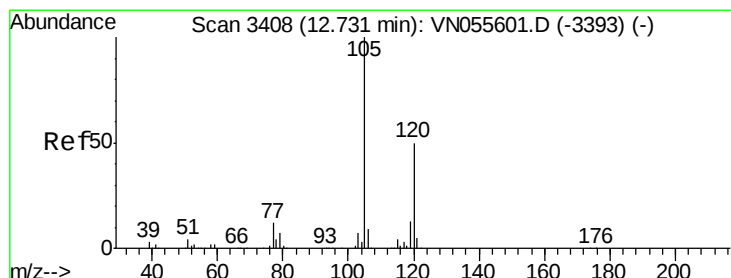
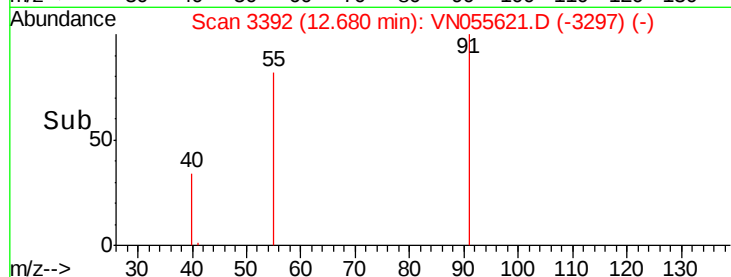
100

50

0

12.66 12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055621.D

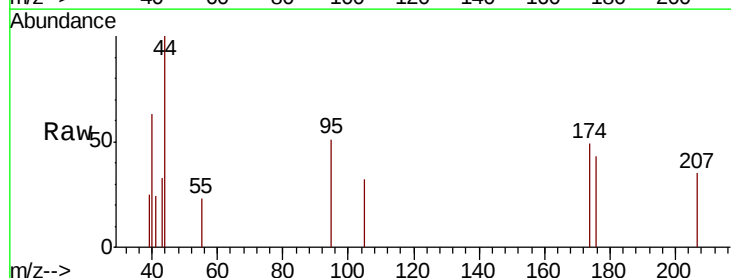
Acq: 17 May 2019 19:31

Tgt Ion: 105 Resp: 143

Ion Ratio Lower Upper

105 100

120 0.0 24.6 74.0#



Abundance Ion 105.00 (104.70 to 105.70): VN055601.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055601.D (-3393) (-)

12.73

200

150

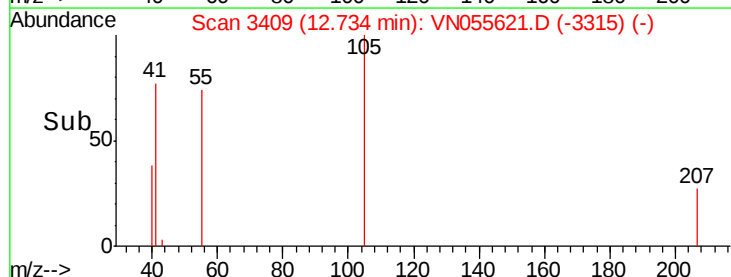
100

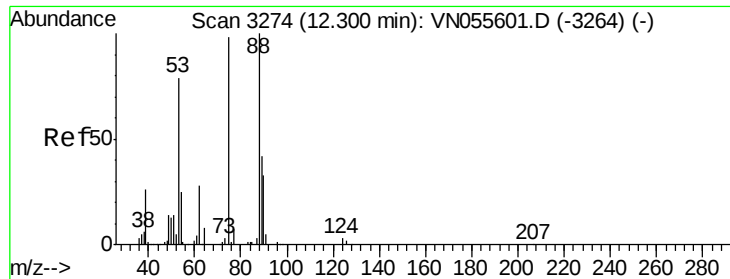
50

0

12.72 12.74

Time-->

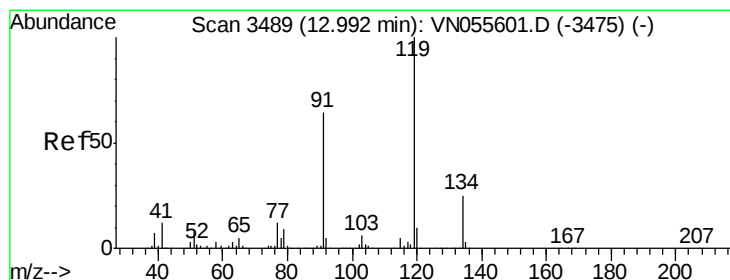
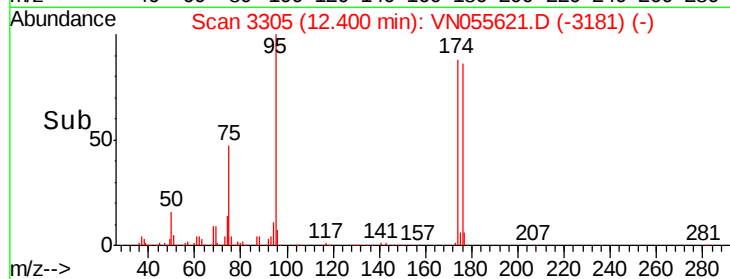
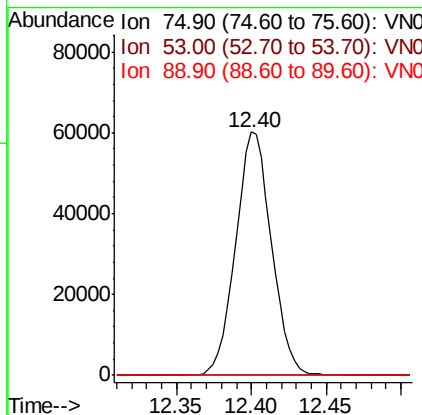
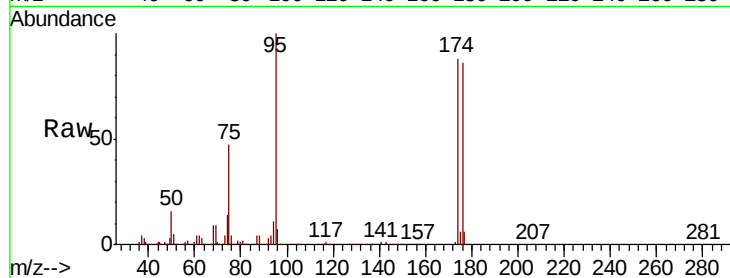




#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.256 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055621.D
 Acq: 17 May 2019 19:31

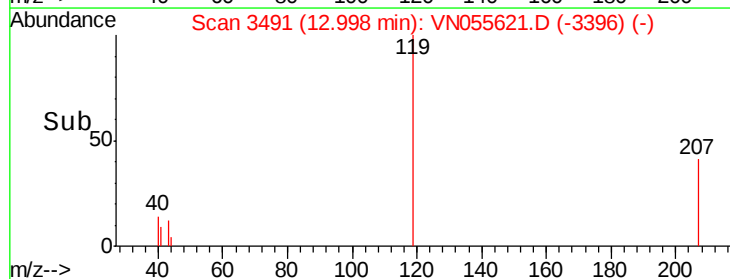
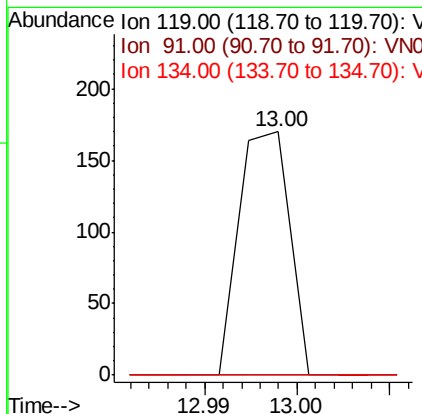
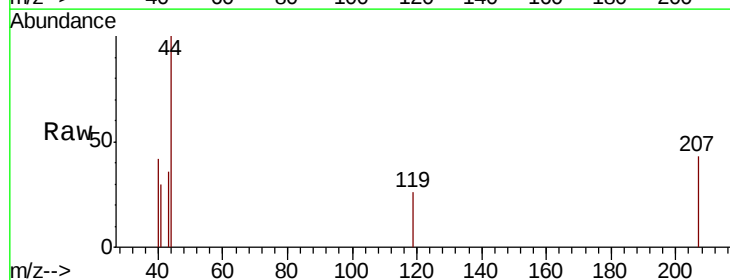
Instrument :
 MSVOA_N
 ClientSampleId :

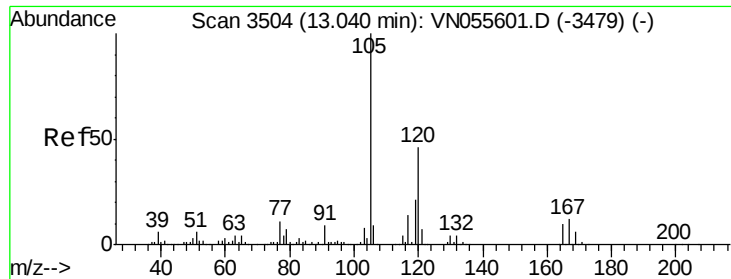
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	65.1	97.7#
89	0.0	36.4	54.6#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.01 min
 Lab File: VN055621.D
 Acq: 17 May 2019 19:31

Tgt Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.3	93.8#
134	0.0	13.2	39.6#





#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :

MSVOA_N

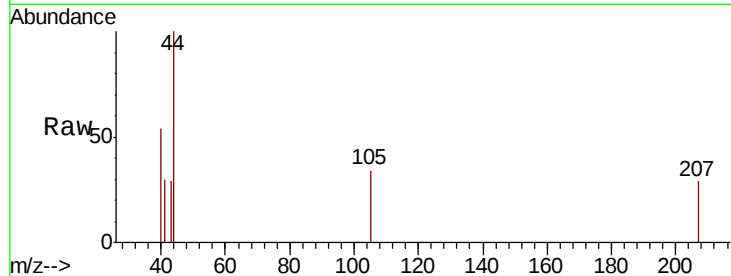
ClientSampled :

Tot Ion:105 Resp: 223

Ion Ratio Lower Upper

105 100

120 0.0 23.1 69.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.04

250

200

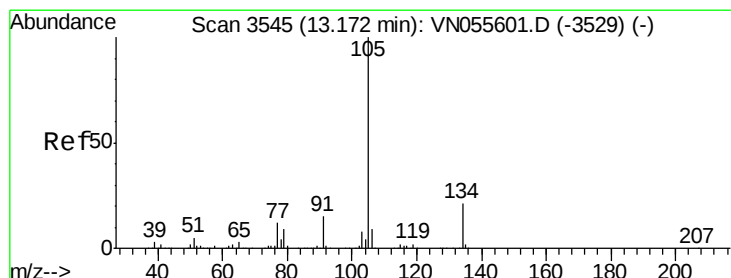
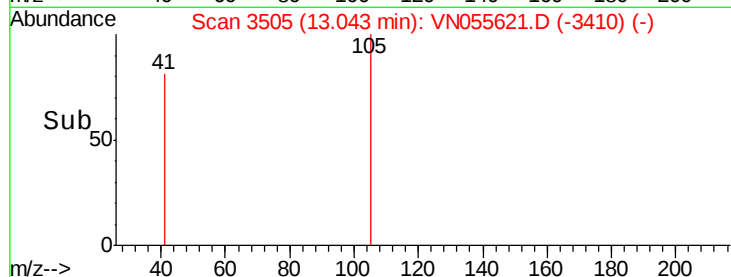
150

100

50

0

Time--> 13.02 13.04 13.06



#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055621.D

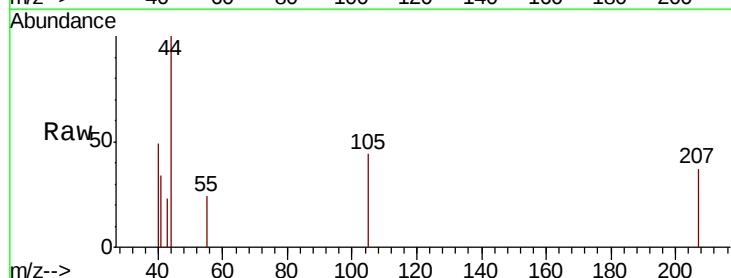
Acq: 17 May 2019 19:31

Tgt Ion:105 Resp: 392

Ion Ratio Lower Upper

105 100

134 0.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

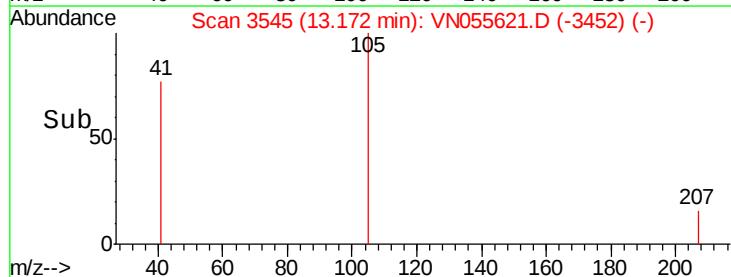
300

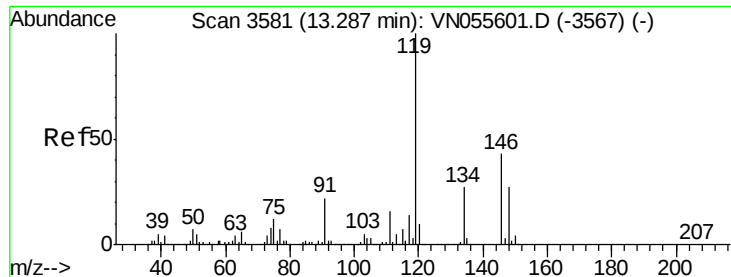
200

100

0

Time--> 13.14 13.16 13.18





#86

p-Isopropyltoluene

Concen: Below Cal

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

Instrument :

MSVOA_N

ClientSampleId :

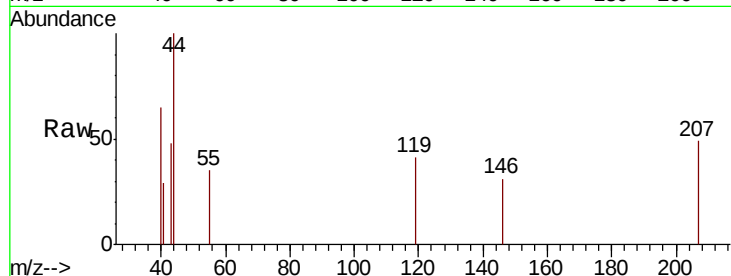
Tot Ion:119 Resp: 280

Ion Ratio Lower Upper

119 100

134 0.0 13.4 40.2#

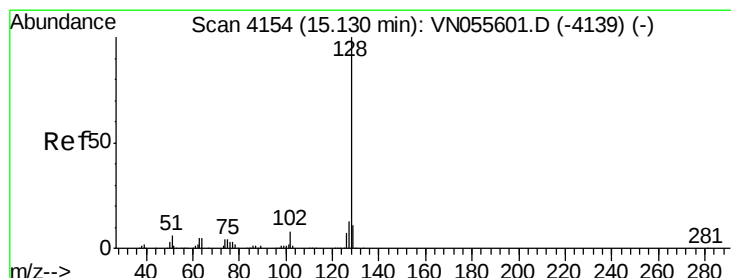
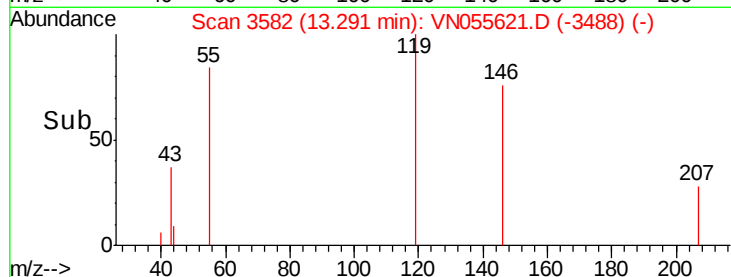
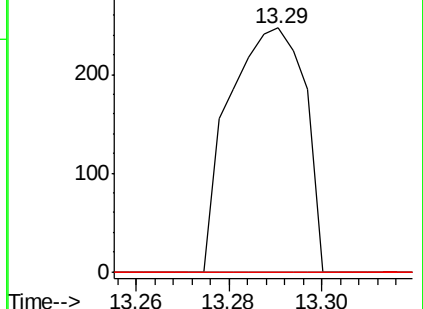
91 0.0 11.0 33.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 1.800 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055621.D

Acq: 17 May 2019 19:31

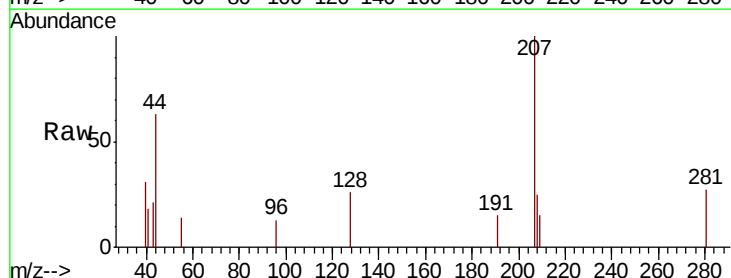
Tgt Ion:128 Resp: 378

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.6 12.8#



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

