

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056734.D
 Acq On : 16 Jul 2019 00:34
 Operator : JC/SP
 Sample : PB121354ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354ZHE#04

Quant Time: Jul 16 04:28:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	271640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	481536	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	514567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	218962	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	156338	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
35) Dibromofluoromethane	7.59	113	142613	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
50) Toluene-d8	10.09	98	610616	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	12.40	95	233782	59.90	ug/l	0.00
Spiked Amount			Recovery	=	119.80%	

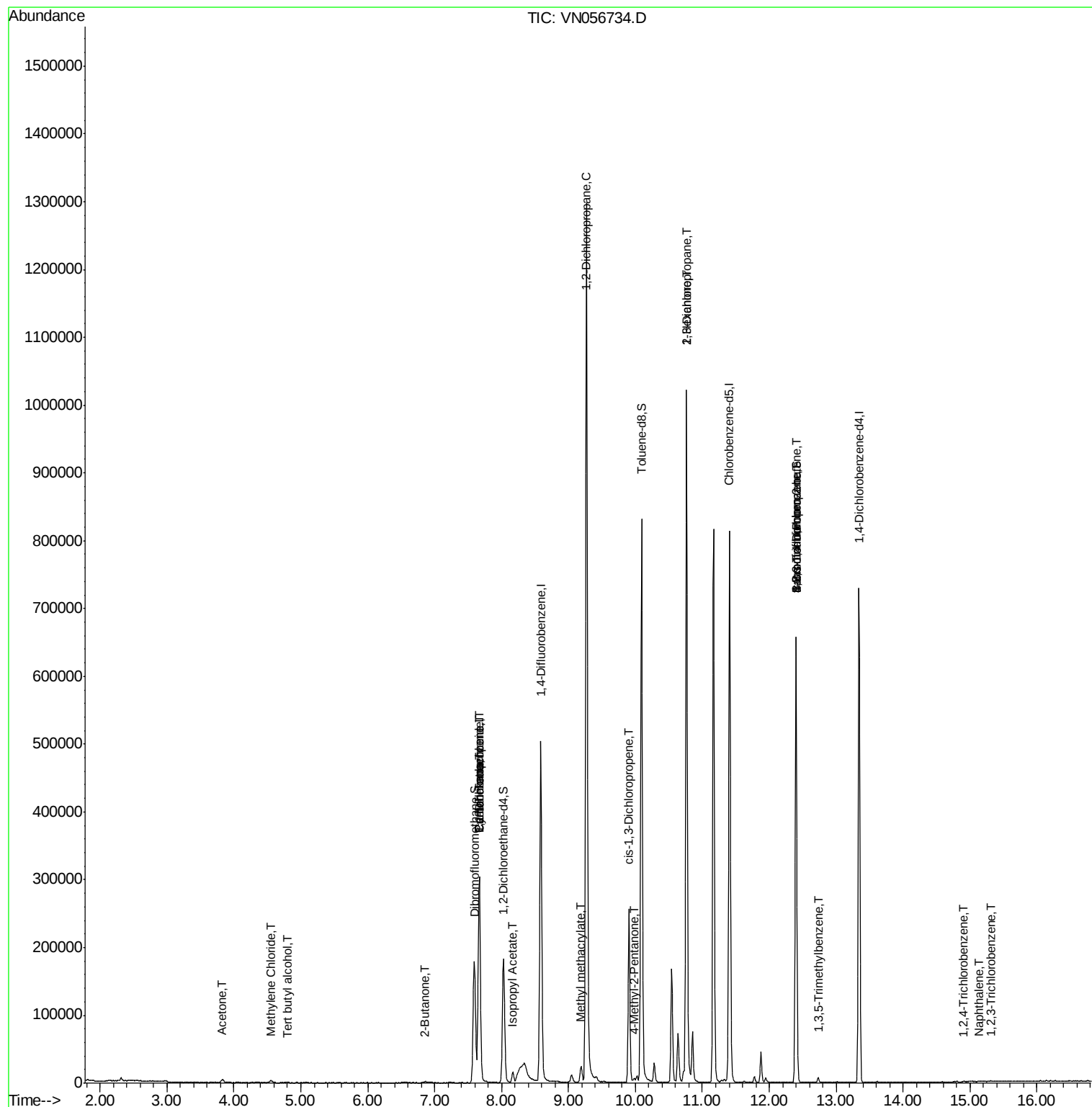
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	272	0.544	ug/l #	73
16) Acetone	3.83	43	8237	5.949	ug/l	93
18) Methyl Acetate	4.34	43	1123	Below Cal	#	52
20) Methylene Chloride	4.55	84	2625	0.868	ug/l	84
25) 2-Butanone	6.86	43	3092	1.527	ug/l #	82
31) Cyclohexane	7.67	56	4298	0.895	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17538	3.936	ug/l #	45
38) Carbon Tetrachloride	7.67	117	23471	5.617	ug/l #	16
43) Isopropyl Acetate	8.17	43	17971	2.603	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	1735	0.478	ug/l #	45
48) Methyl methacrylate	9.18	41	8053	2.412	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	4121	0.922	ug/l	87
54) cis-1,3-Dichloropropene	9.90	75	50157	9.697	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	10609	1.910	ug/l #	42
59) 2-Hexanone	10.76	43	150770	46.989	ug/l #	52
71) Bromoform	12.40	173	1875	0.636	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	109434	22.851	ug/l #	100
79) 2-Chlorotoluene	12.78	91	697	Below Cal		89
80) 1,3,5-Trimethylbenzene	12.73	105	4353	0.291	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	109434	70.571	ug/l #	13
83) tert-Butylbenzene	12.73	119	550	Below Cal	#	77
93) 1,2,4-Trichlorobenzene	14.91	180	538	3.808	ug/l #	60
95) Naphthalene	15.14	128	1214	4.620	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	441	3.420	ug/l #	78

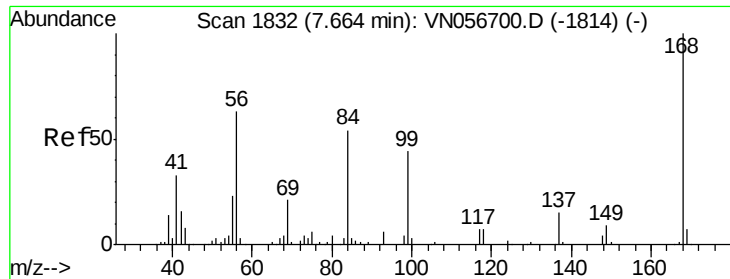
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN071519\
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Quant Title : SW846 8260
QLast Update : Tue Jul 16 01:25:25 2019
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: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

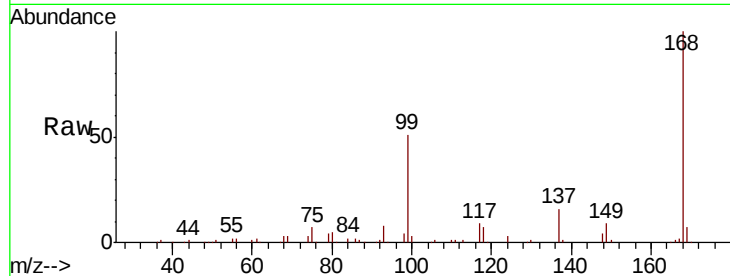
PB121354ZHE#04

Tot Ion:168 Resp: 271640

Ion Ratio Lower Upper

168 100

99 50.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

60000

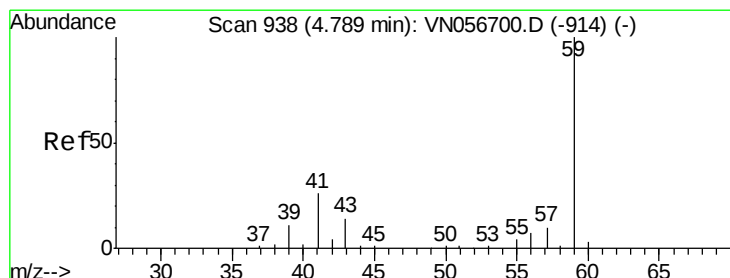
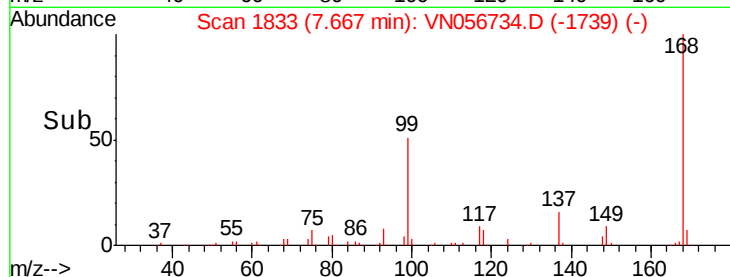
40000

20000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.544 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.00 min

Lab File: VN056734.D

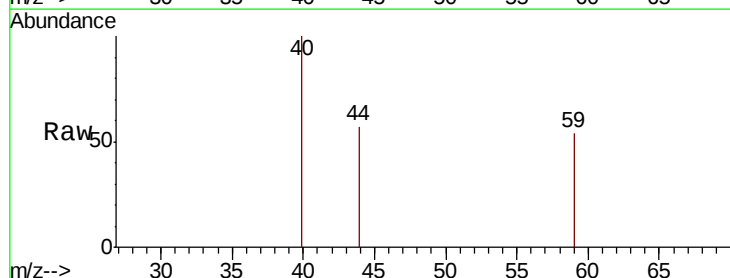
Acq: 16 Jul 2019 00:34

Tgt Ion: 59 Resp: 272

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.79

250

200

150

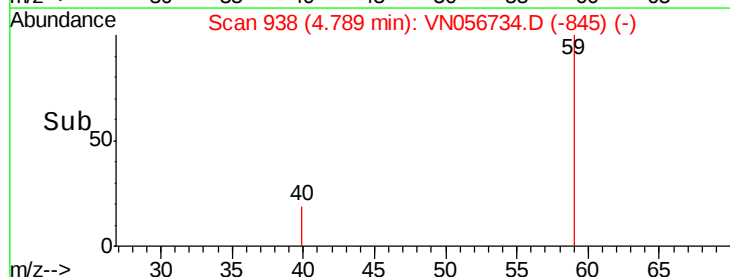
100

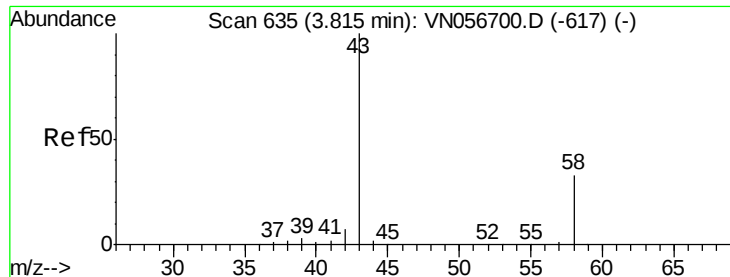
50

0

Time-->

4.77 4.78 4.79 4.80 4.81





#16

Acetone

Concen: 5.949 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

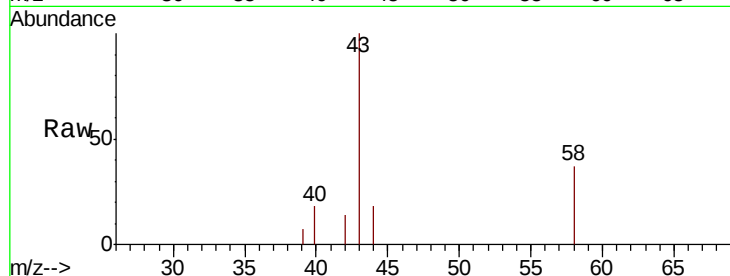
PB121354ZHE#04

Tot Ion: 43 Resp: 8237

Ion Ratio Lower Upper

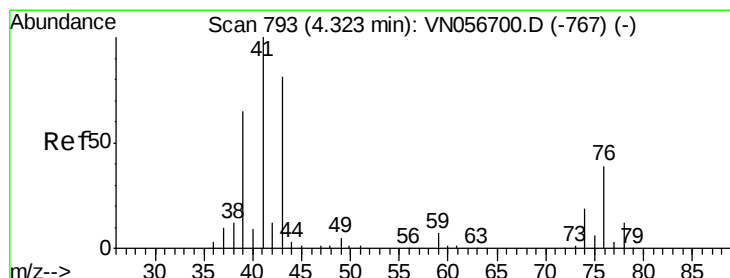
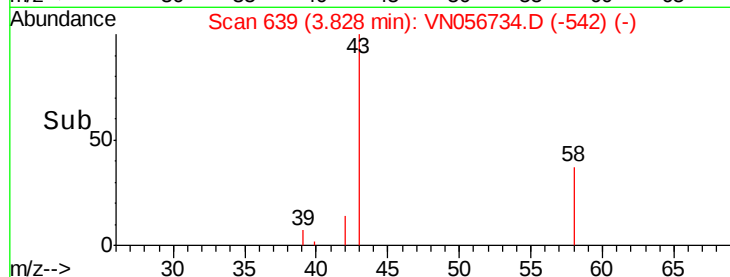
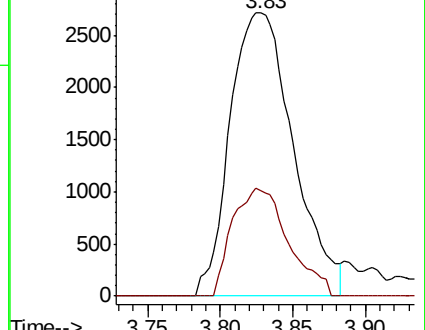
43 100

58 37.5 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN056734.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN056734.D (-542) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN056734.D

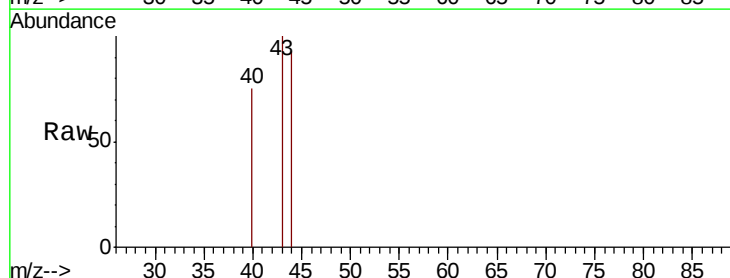
Acq: 16 Jul 2019 00:34

Tgt Ion: 43 Resp: 1123

Ion Ratio Lower Upper

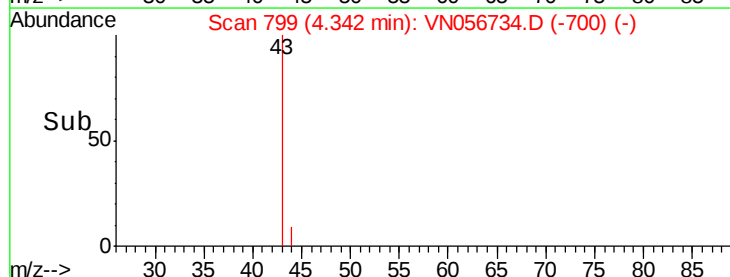
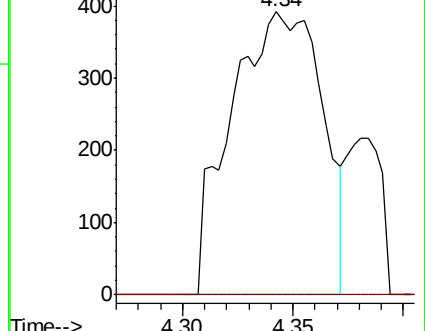
43 100

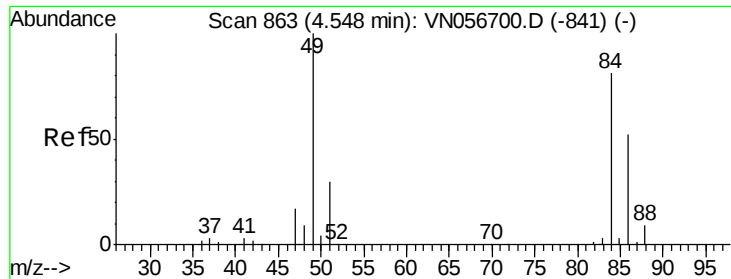
74 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN056734.D (-700) (-)

Ion 74.00 (73.70 to 74.70): VN056734.D (-700) (-)

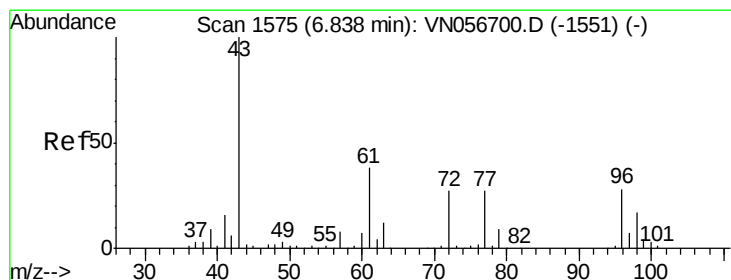
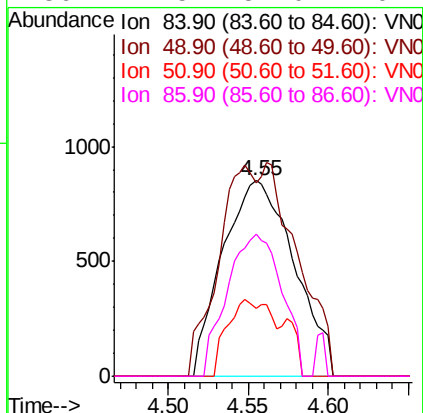
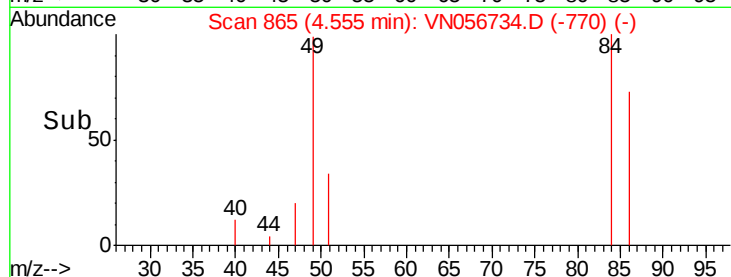
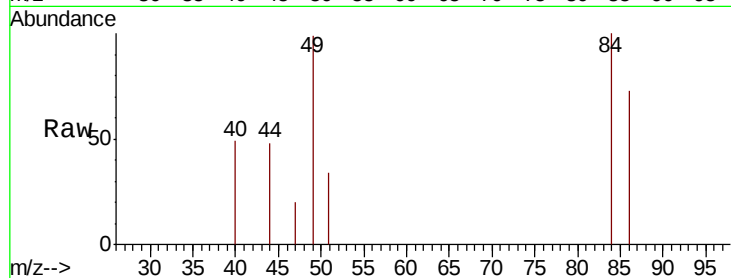




#20
Methvlene Chloride
Concen: 0.868 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056734.D
Acq: 16 Jul 2019 00:34

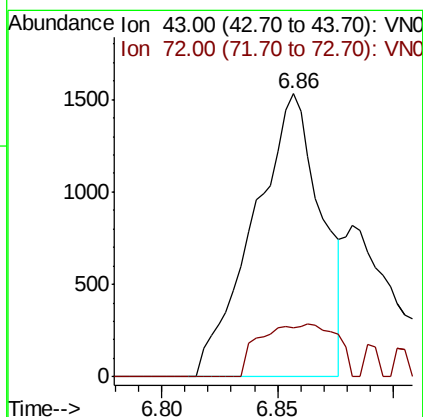
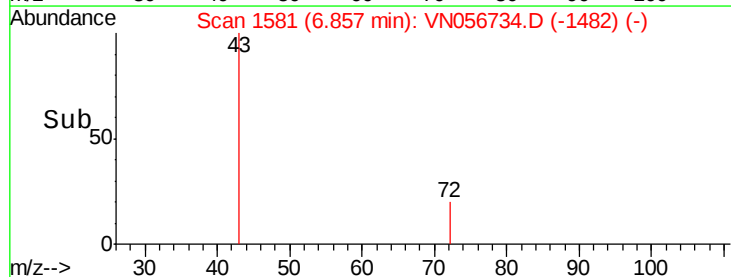
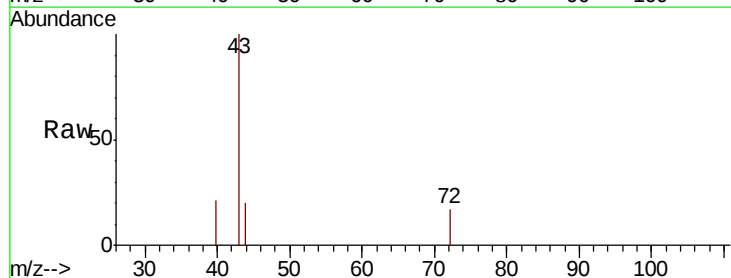
Instrument :
MSVOA_N
ClientSampleId :
PB121354ZHE#04

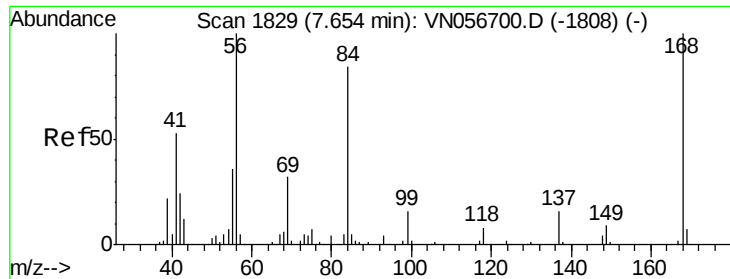
Tot Ion: 84 Resp: 2625
Ion Ratio Lower Upper
84 100
49 98.8 98.2 147.4
51 34.4 29.6 44.4
86 72.5 51.0 76.4



#25
2-Butanone
Concen: 1.527 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN056734.D
Acq: 16 Jul 2019 00:34

Tgt Ion: 43 Resp: 3092
Ion Ratio Lower Upper
43 100
72 17.2 21.2 31.8#

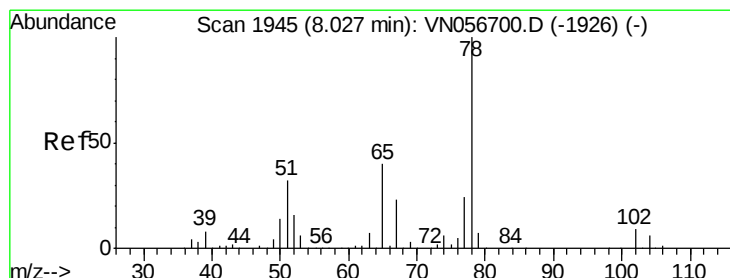
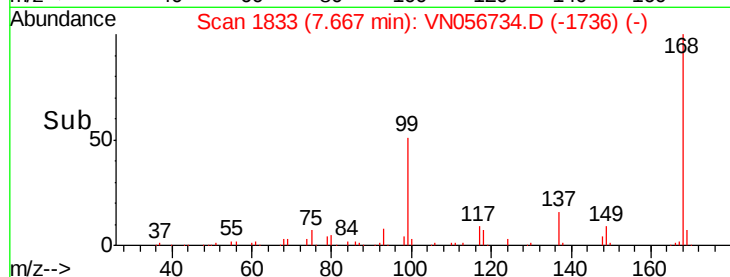
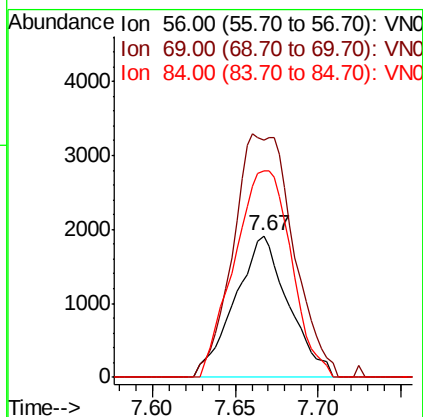
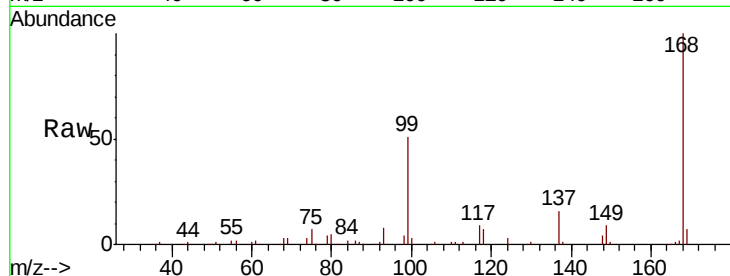




#31
Cyclohexane
Concen: 0.895 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056734.D
Acq: 16 Jul 2019 00:34

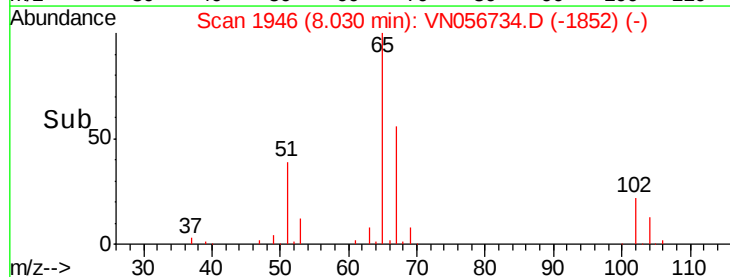
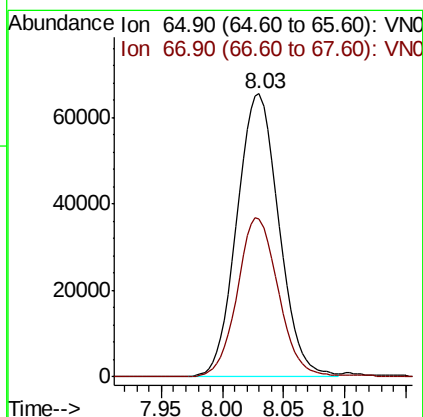
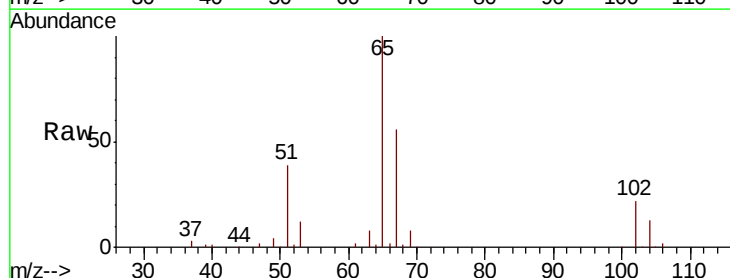
Instrument :
MSVOA_N
ClientSampleId :
PB121354ZHE#04

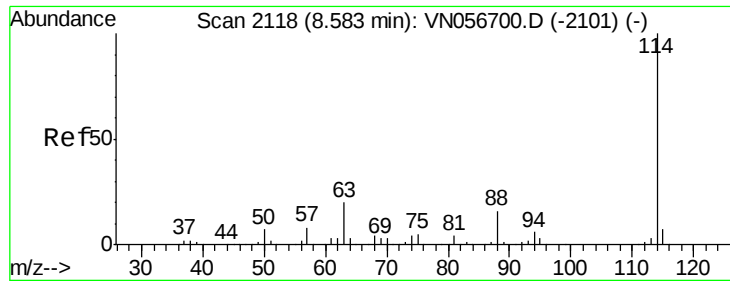
Tot Ion: 56 Resp: 4298
Ion Ratio Lower Upper
56 100
69 167.3 25.8 38.8#
84 145.9 67.4 101.0#



#33
1,2-Dichloroethane-d4
Concen: 52.031 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN056734.D
Acq: 16 Jul 2019 00:34

Tgt Ion: 65 Resp: 156338
Ion Ratio Lower Upper
65 100
67 55.0 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

PB121354ZHE#04

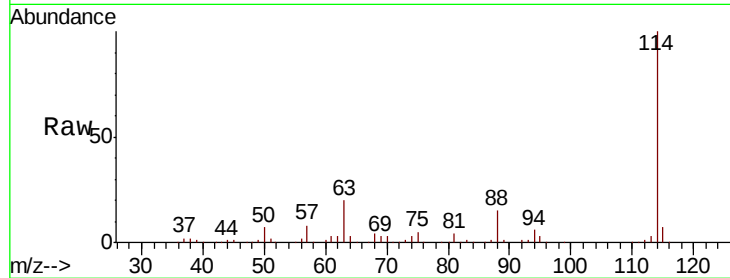
Tot Ion:114 Resp: 481536

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.4

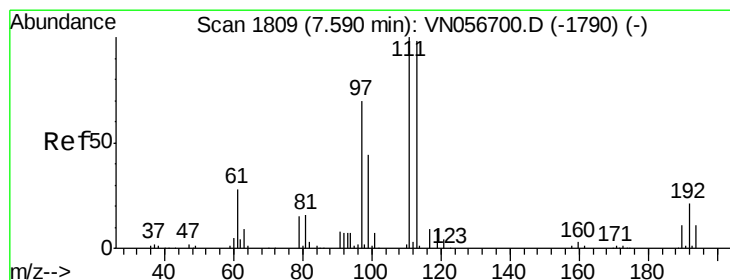
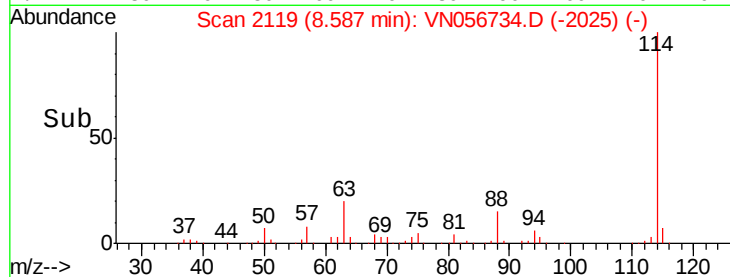
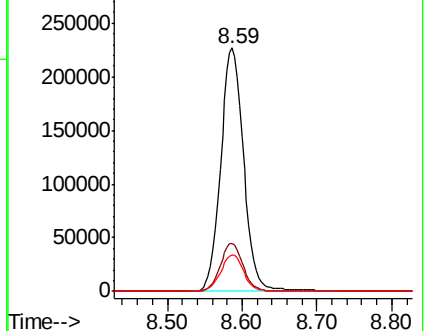
88 15.0 0.0 31.2



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: 47.590 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

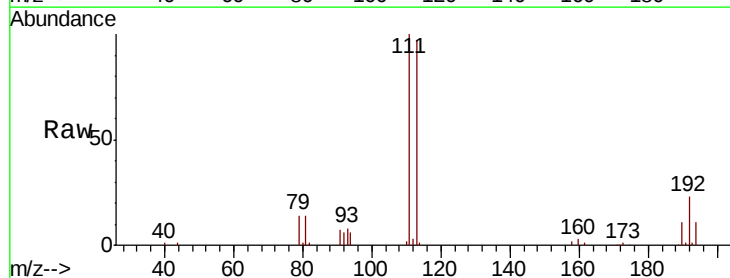
Tgt Ion:113 Resp: 142613

Ion Ratio Lower Upper

113 100

111 101.5 81.8 122.6

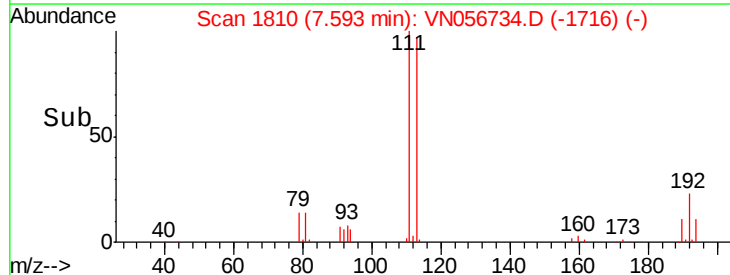
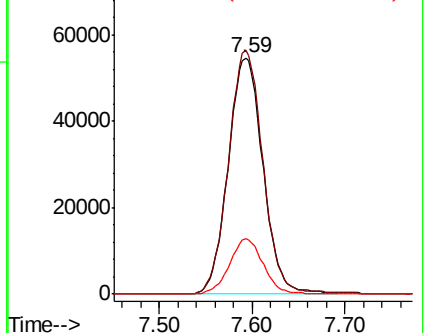
192 22.5 17.5 26.3

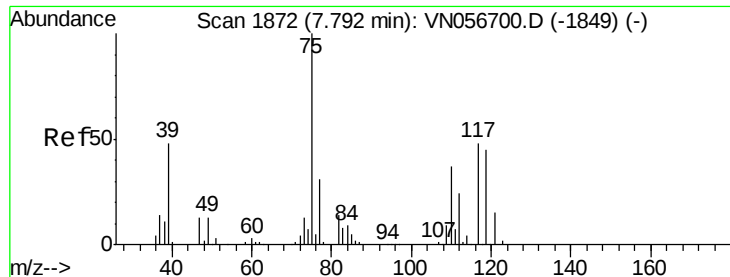


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

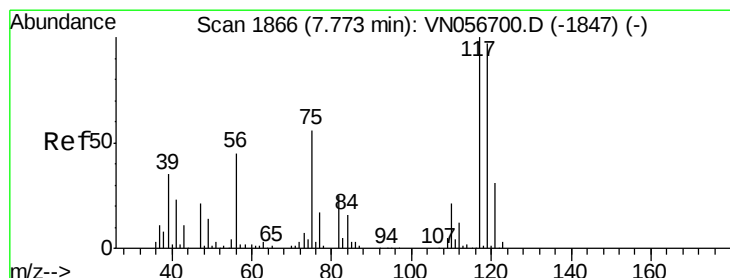
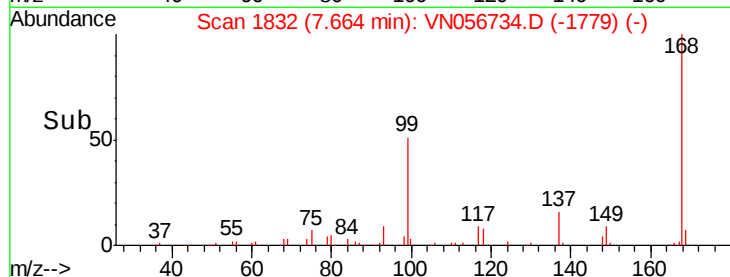
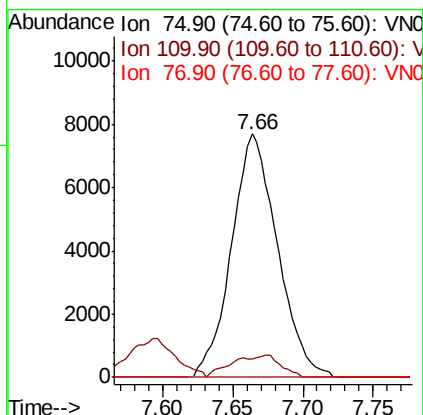
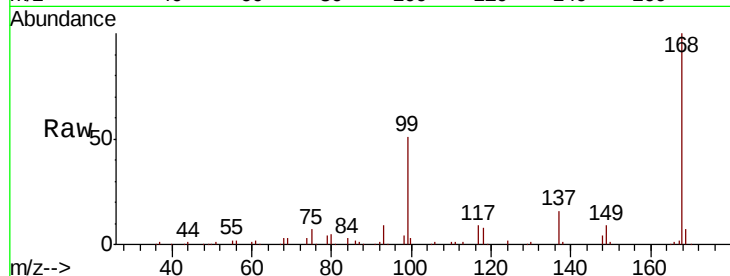




#36
 1,1-Dichloropropene
 Concen: 3.936 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

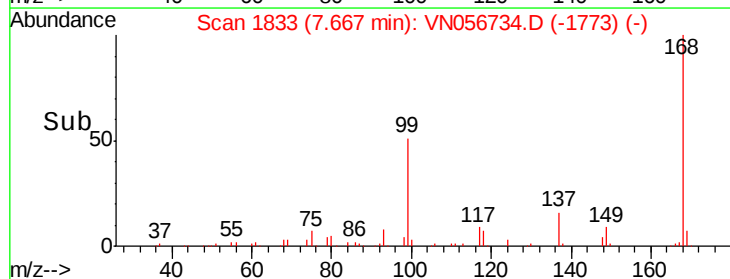
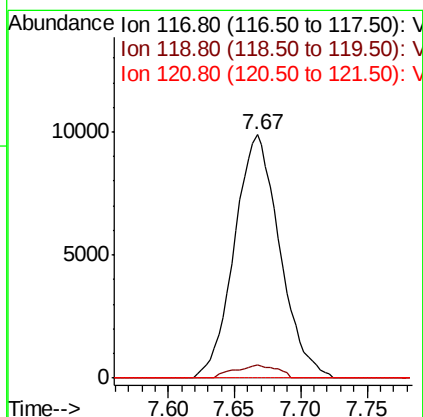
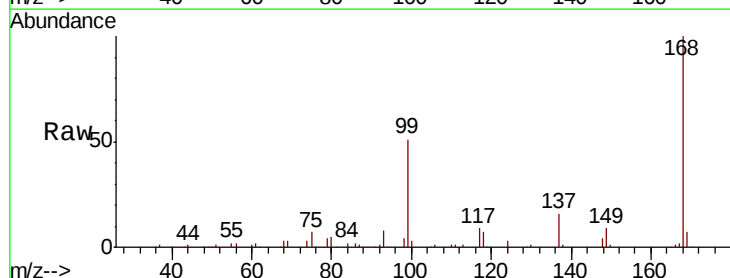
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354ZHE#04

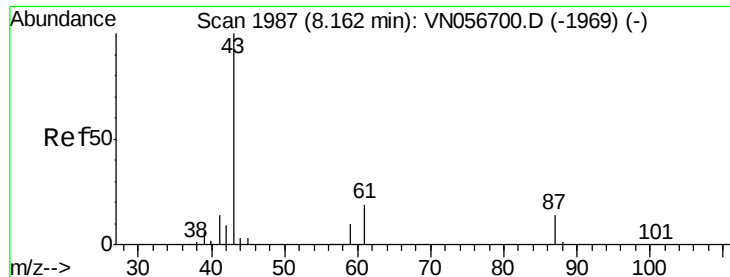
Tot Ion	75	Resp	17538
Ion Ratio	100	Lower	Upper
75	100		
110	4.7	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.617 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

Tgt Ion	117	Resp	23471
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.4	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 2.603 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

PB121354ZHE#04

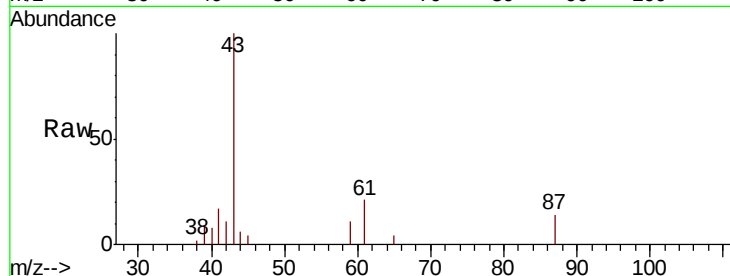
Tot Ion: 43 Resp: 17971

Ion Ratio Lower Upper

43 100

61 21.9 22.3 33.5#

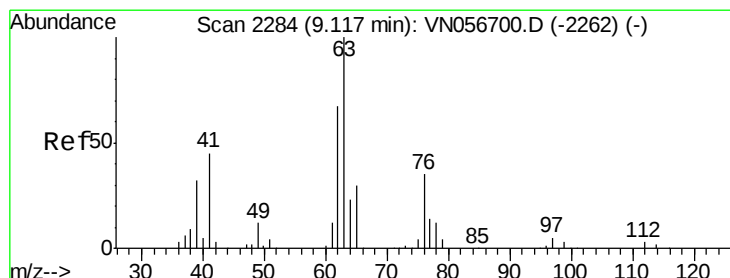
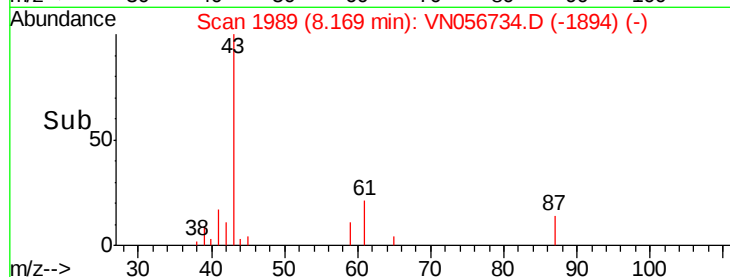
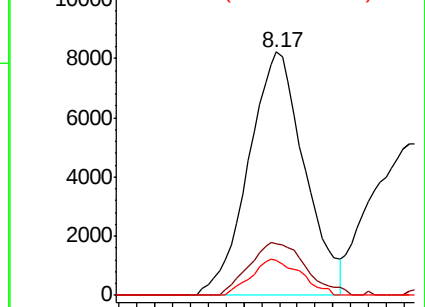
87 13.1 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.478 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN056734.D

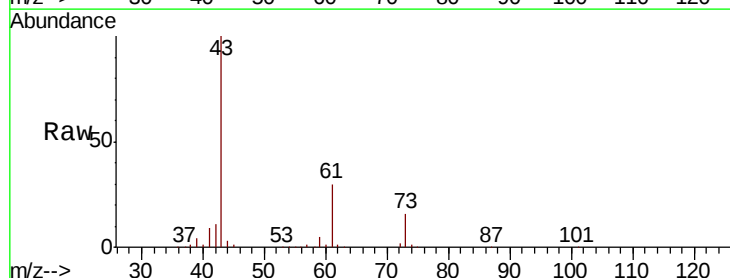
Acq: 16 Jul 2019 00:34

Tgt Ion: 63 Resp: 1735

Ion Ratio Lower Upper

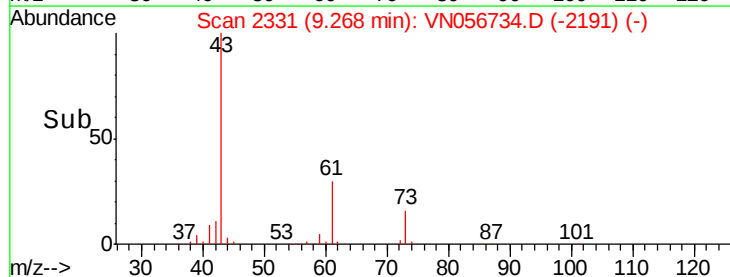
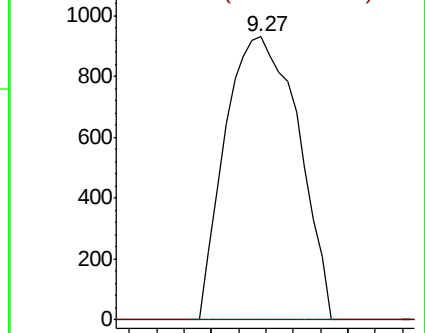
63 100

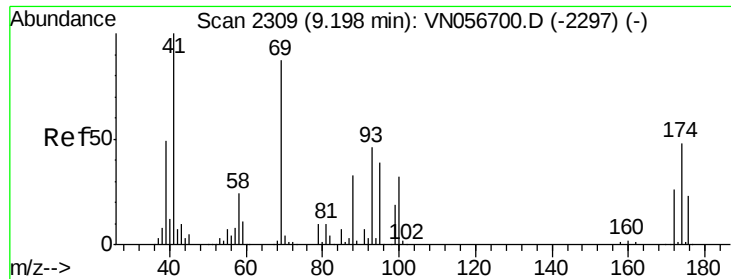
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

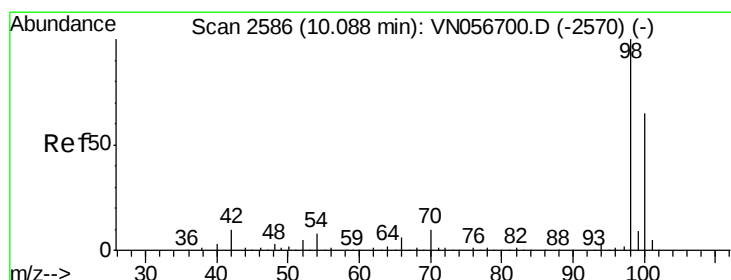
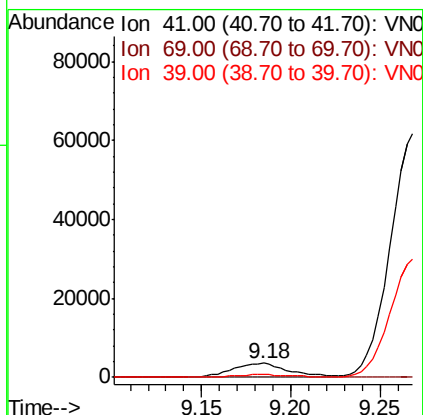
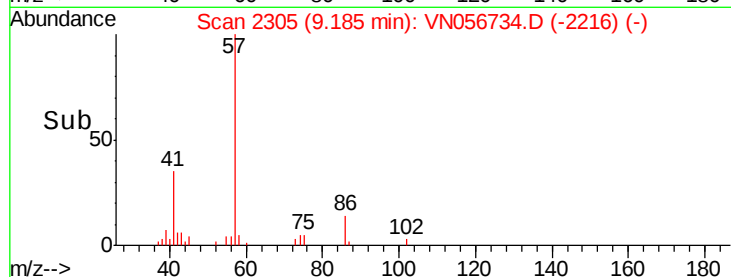
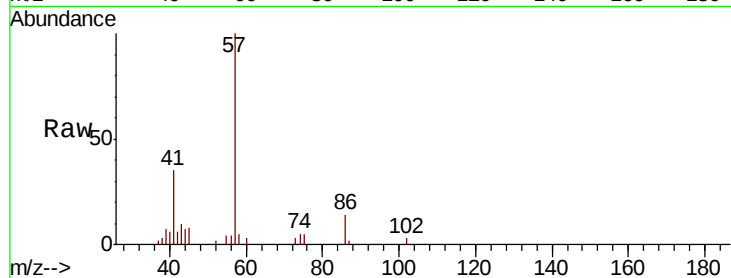




#48
Methyl methacrylate
Concen: 2.412 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN056734.D
Acq: 16 Jul 2019 00:34

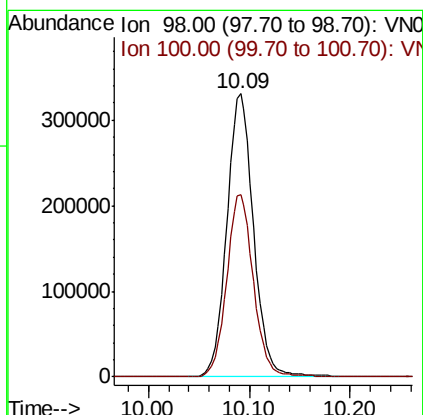
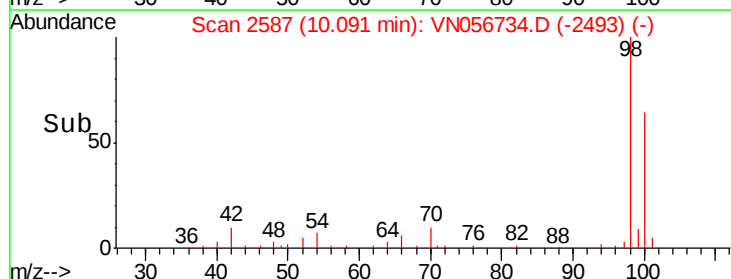
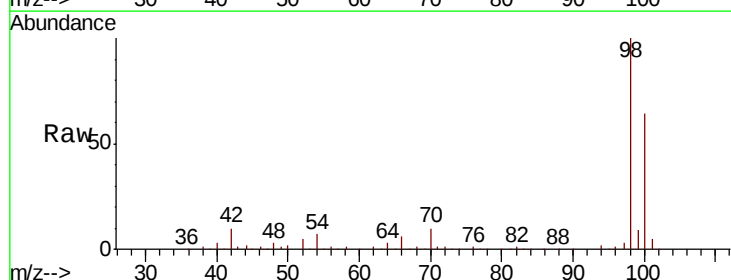
Instrument :
MSVOA_N
ClientSampleId :
PB121354ZHE#04

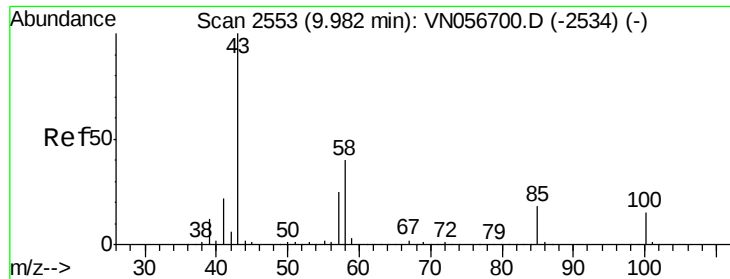
Tot Ion: 41 Resp: 8053
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 0.0 41.2 61.8#



#50
Toluene-d8
Concen: 52.758 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056734.D
Acq: 16 Jul 2019 00:34

Tgt Ion: 98 Resp: 610616
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0

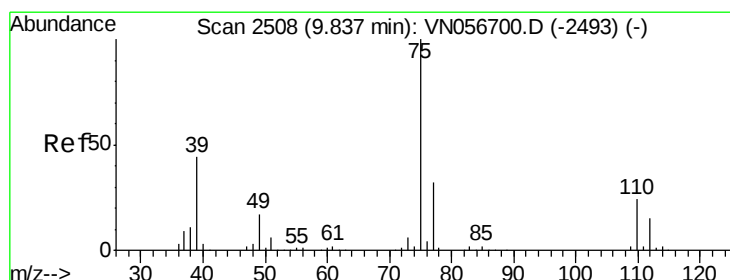
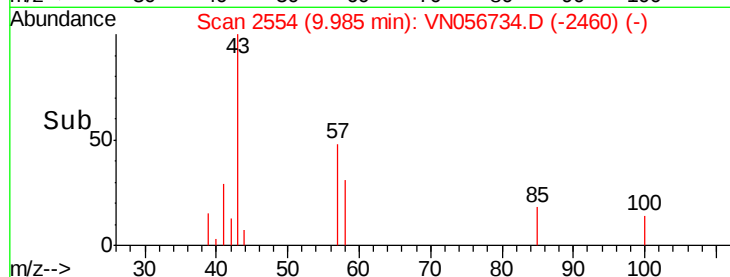
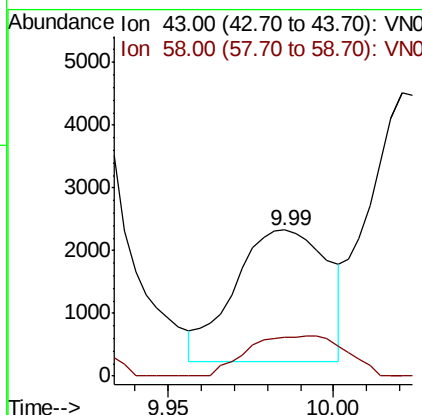
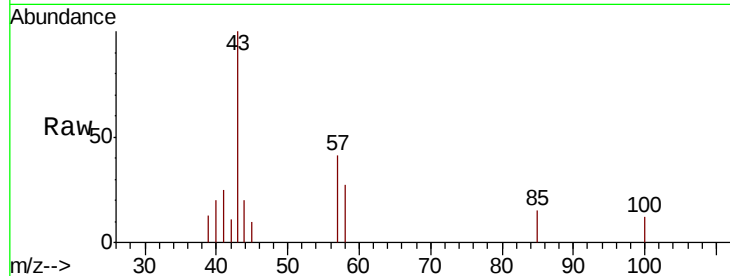




#51
 4-Methyl-2-Pentanone
 Concen: 0.922 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

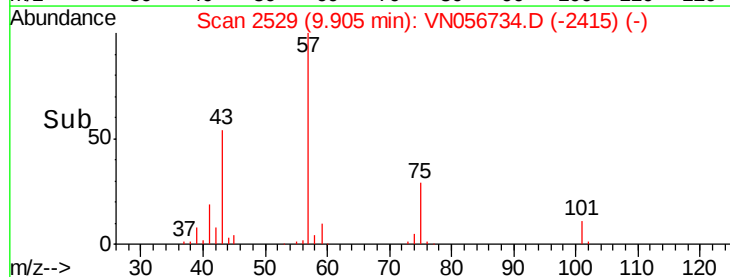
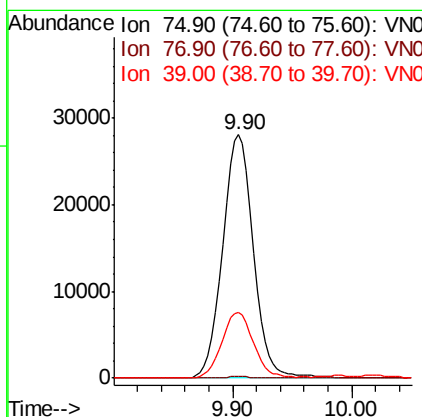
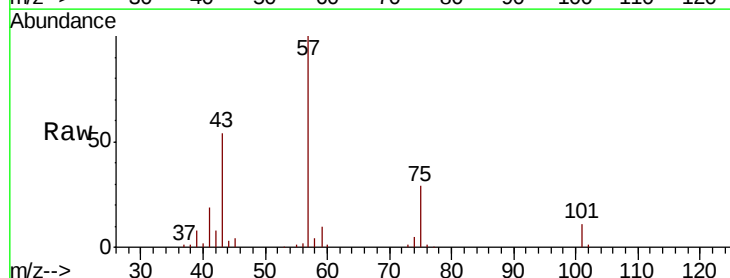
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354ZHE#04

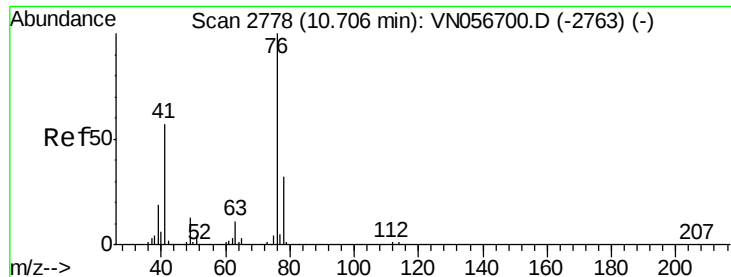
Tot Ion: 43 Resp: 4121
 Ion Ratio Lower Upper
 43 100
 58 32.1 32.0 48.0



#54
 cis-1,3-Dichloropropene
 Concen: 9.697 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

Tgt Ion: 75 Resp: 50157
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.0 39.0#
 39 27.0 35.1 52.7#

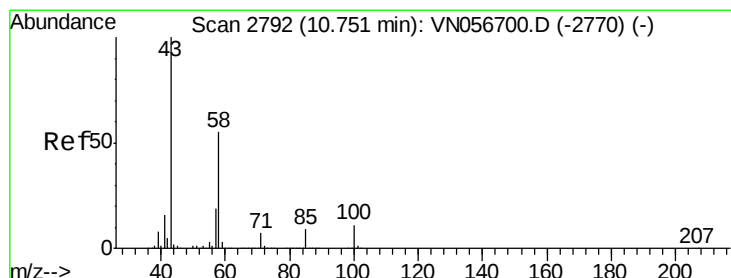
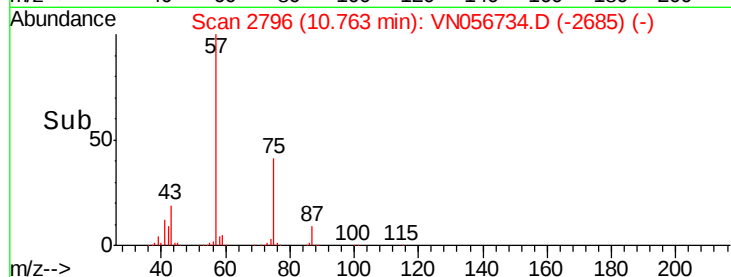
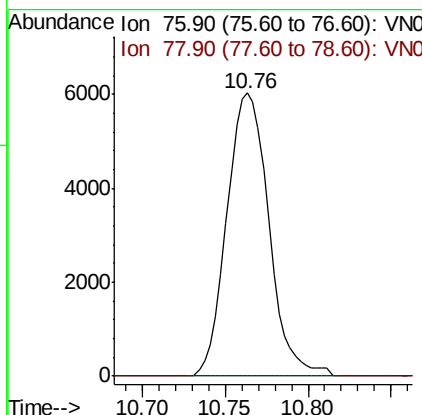
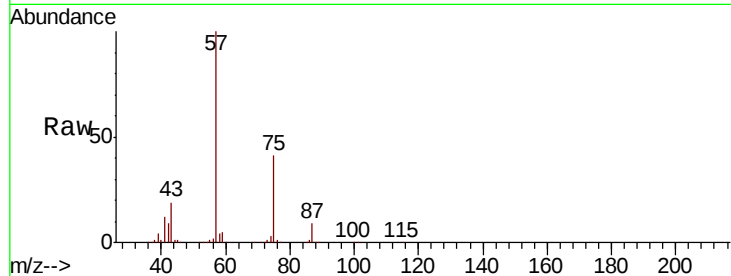




#57
 1,3-Dichloropropane
 Concen: 1.910 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

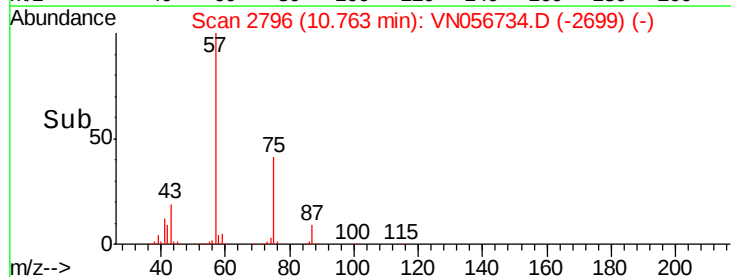
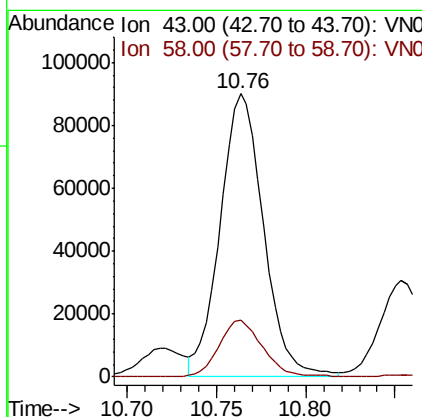
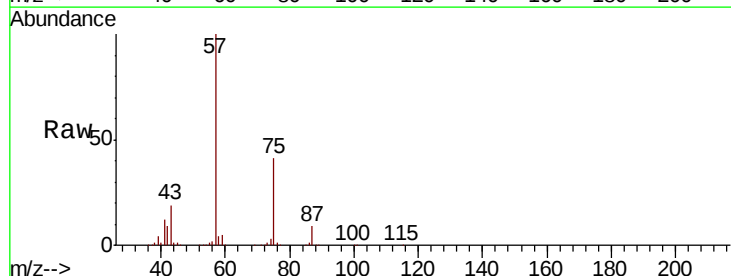
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354ZHE#04

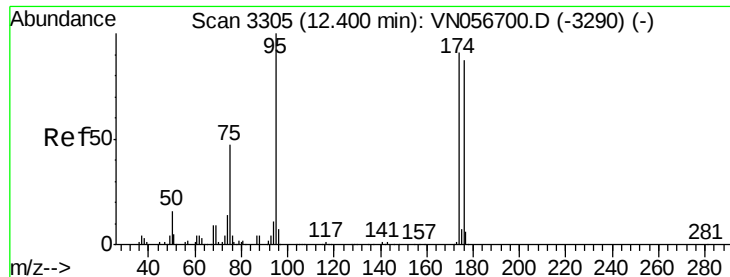
Tot Ion: 76 Resp: 10609
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 46.989 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

Tgt Ion: 43 Resp: 150770
 Ion Ratio Lower Upper
 43 100
 58 20.5 27.9 83.6#





#62

4-Bromofluorobenzene

Concen: 59.896 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

PB121354ZHE#04

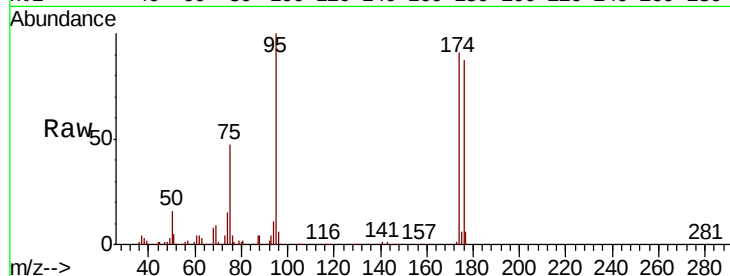
Tot Ion: 95 Resp: 233782

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.0

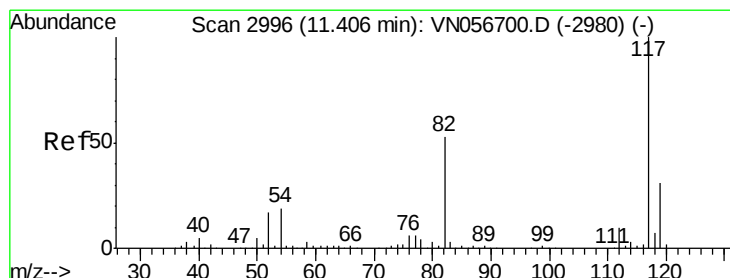
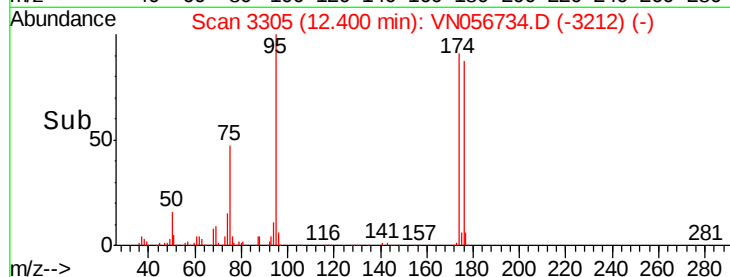
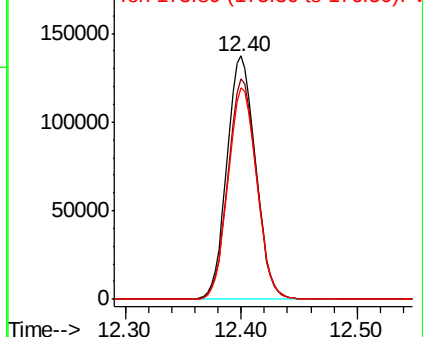
176 87.1 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056734.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN056734.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN056734.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

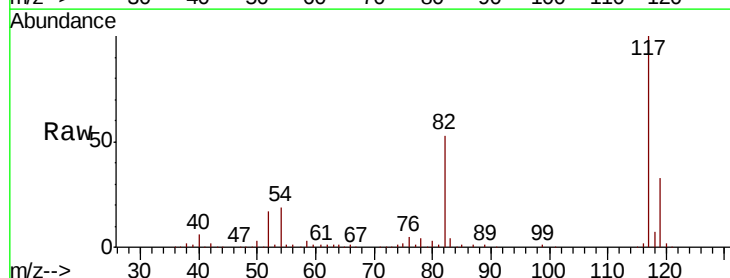
Tgt Ion: 117 Resp: 514567

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.2

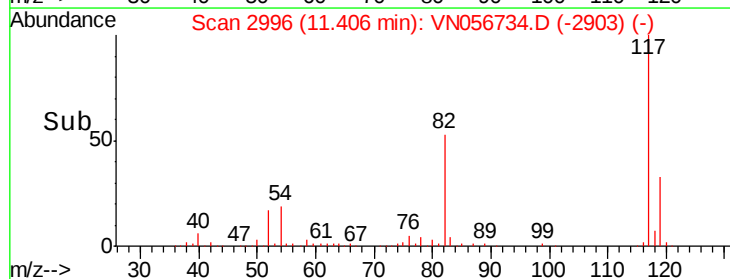
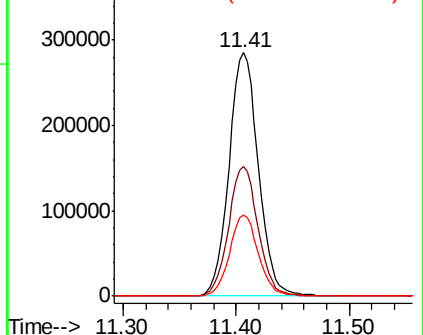
119 33.3 25.2 37.8

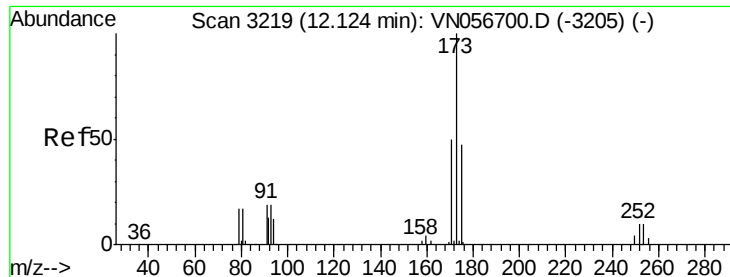


Abundance Ion 116.90 (116.60 to 117.60): VN056734.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN056734.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN056734.D (-2903) (-)





#71

Bromoform

Concen: 0.636 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

PB121354ZHE#04

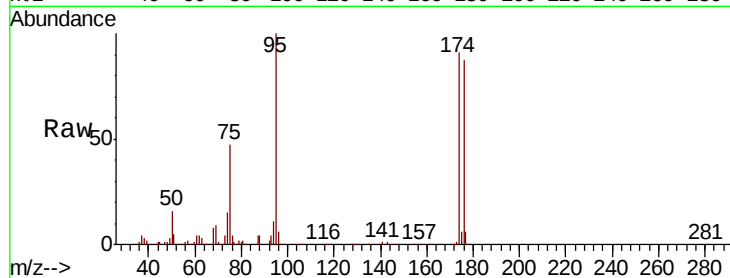
Tot Ion:173 Resp: 1875

Ion Ratio Lower Upper

173 100

175 665.8 23.8 71.4#

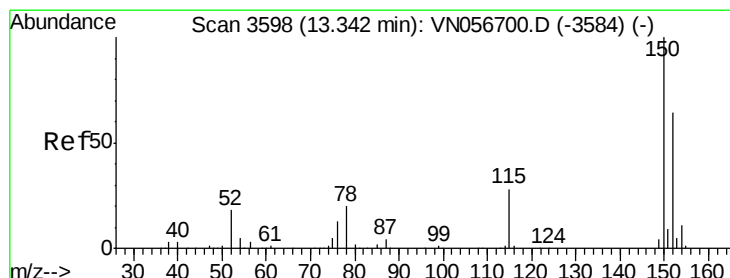
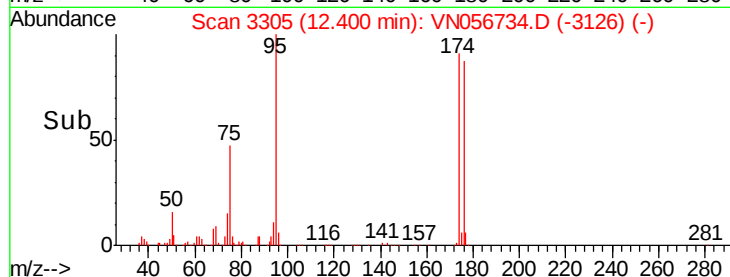
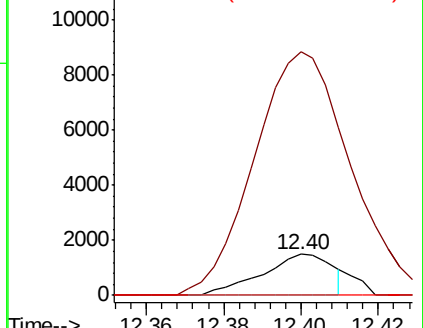
254 0.0 0.0 0.0



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: VN056734.D

Acq: 16 Jul 2019 00:34

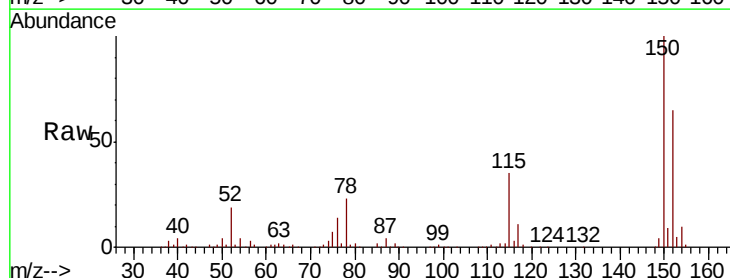
Tgt Ion:152 Resp: 218962

Ion Ratio Lower Upper

152 100

115 54.5 28.2 84.7

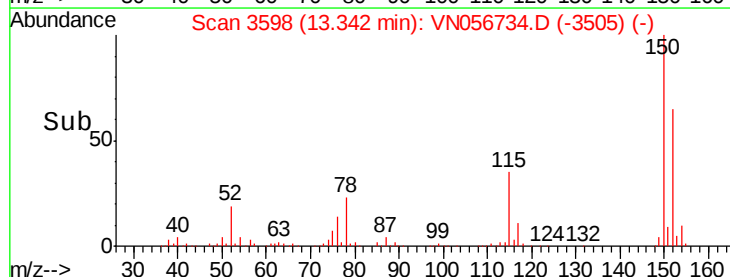
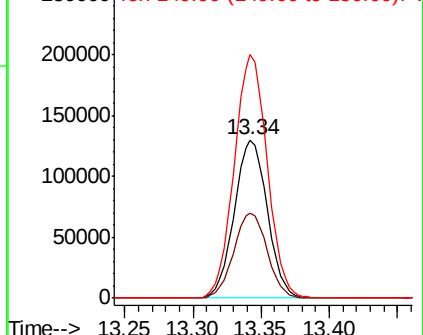
150 153.7 0.0 345.8

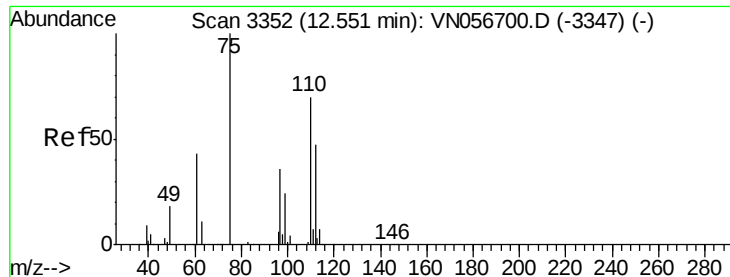


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.851 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

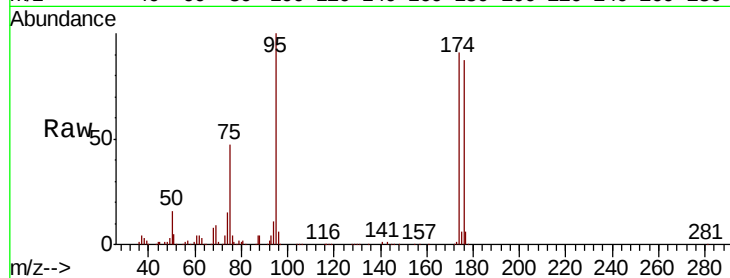
PB121354ZHE#04

Tot Ion: 75 Resp: 109434

Ion Ratio Lower Upper

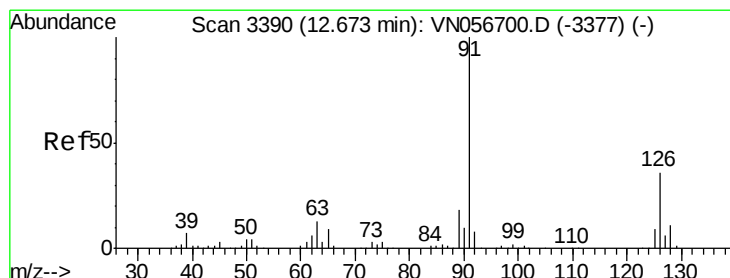
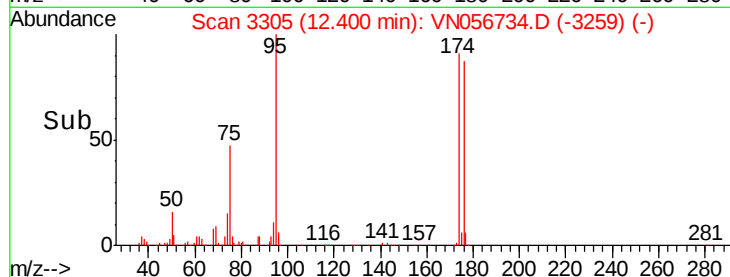
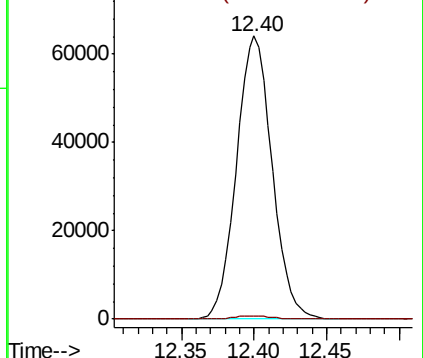
75 100

77 1.2 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: Below Cal

RT: 12.78 min Scan# 3422

Delta R.T. 0.10 min

Lab File: VN056734.D

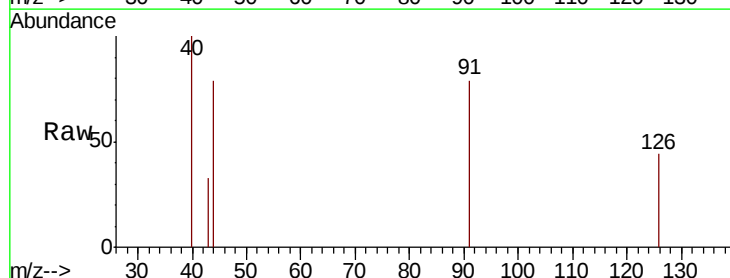
Acq: 16 Jul 2019 00:34

Tgt Ion: 91 Resp: 697

Ion Ratio Lower Upper

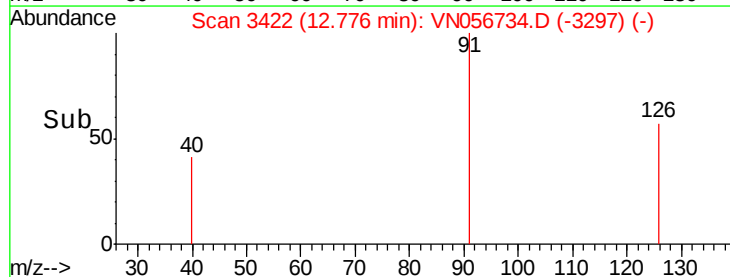
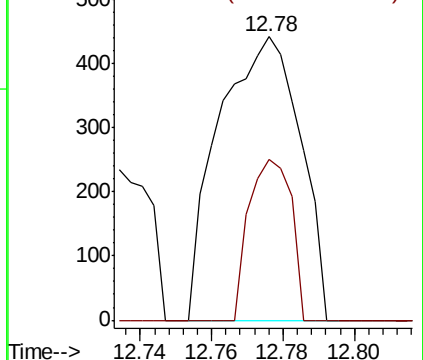
91 100

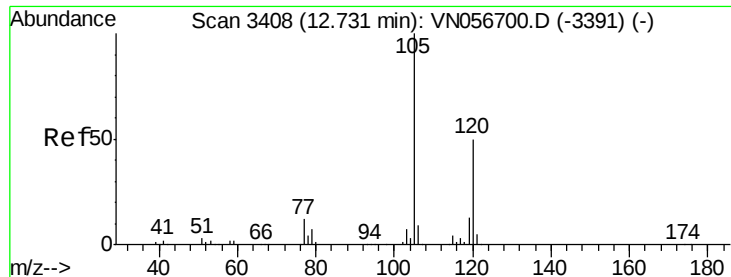
126 29.6 17.9 53.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 0.291 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

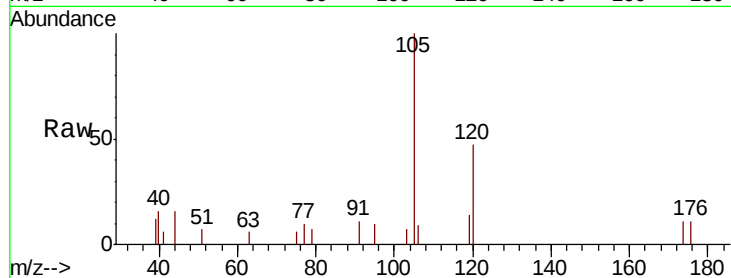
PB121354ZHE#04

Tot Ion:105 Resp: 4353

Ion Ratio Lower Upper

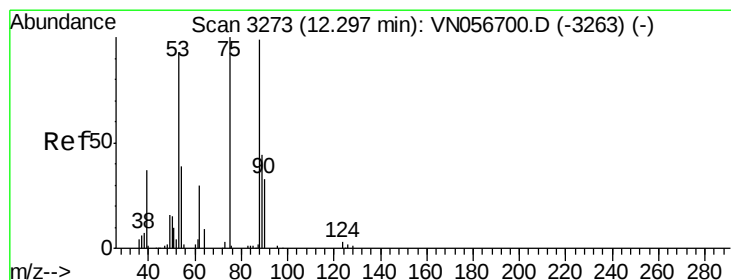
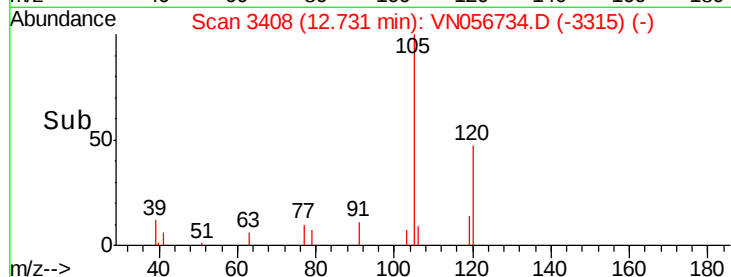
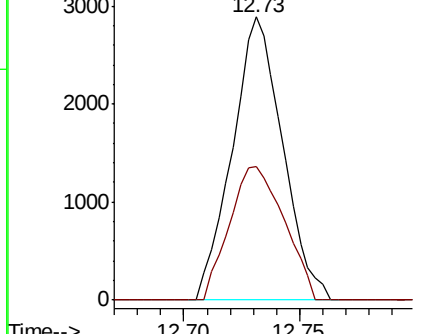
105 100

120 51.2 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 70.571 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

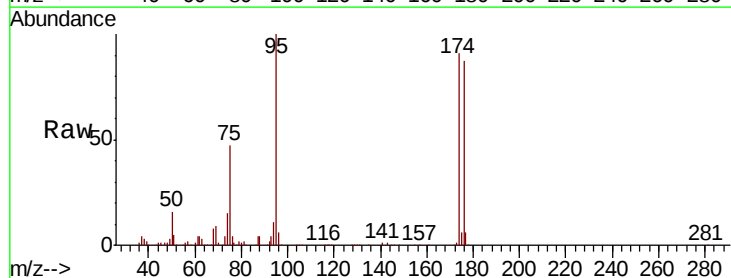
Tgt Ion: 75 Resp: 109434

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

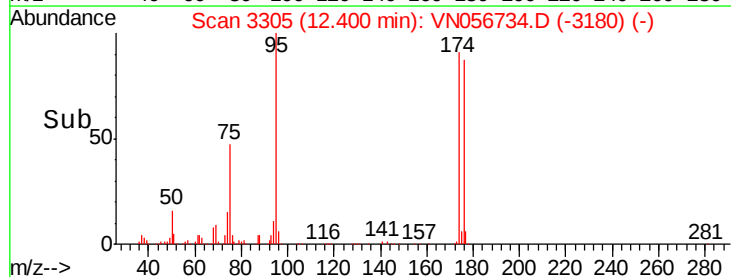
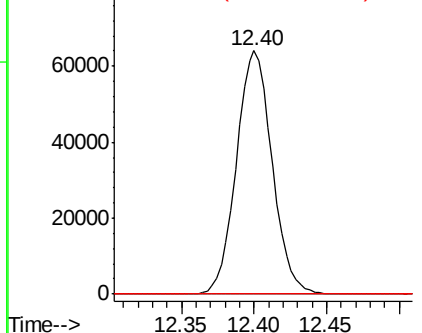
89 0.0 36.2 54.2#

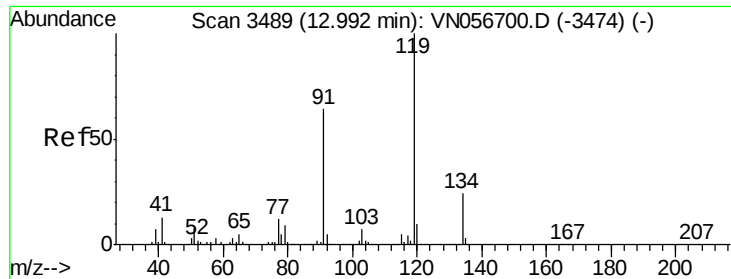


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

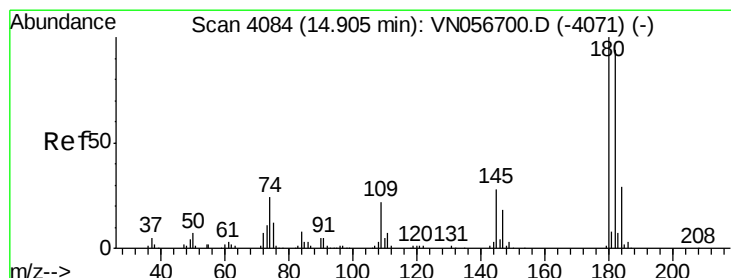
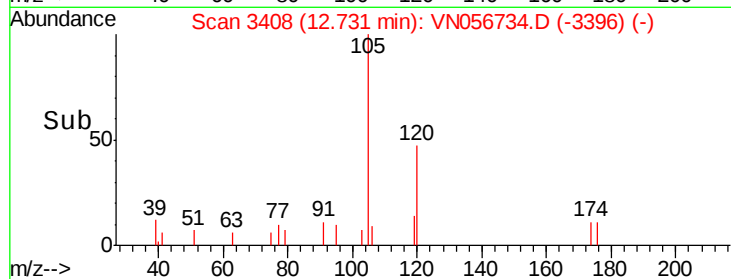
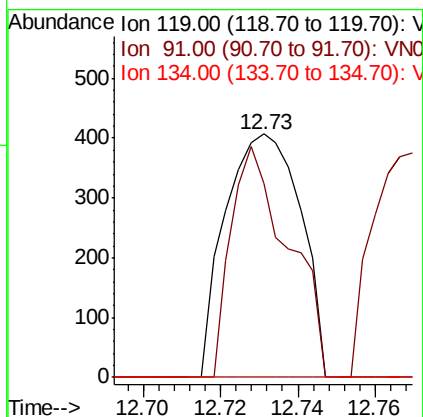
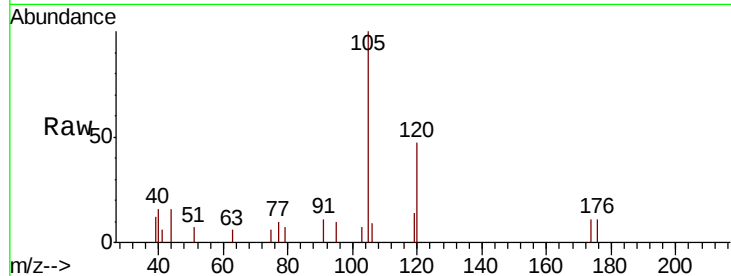




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.26 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

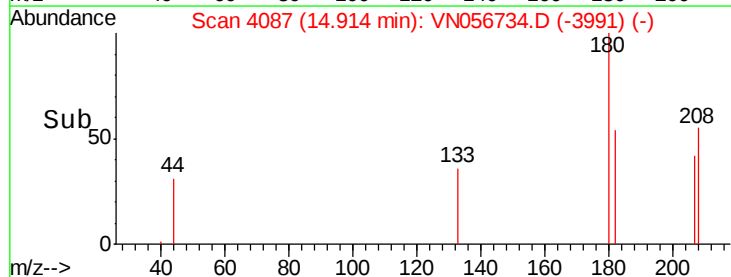
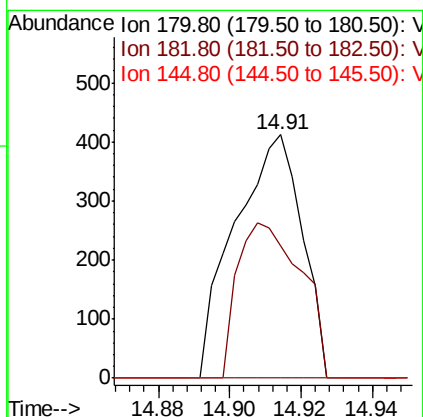
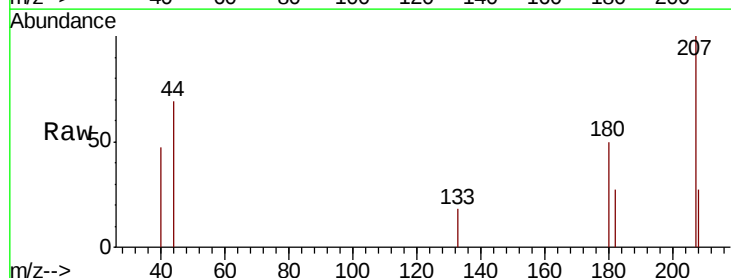
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354ZHE#04

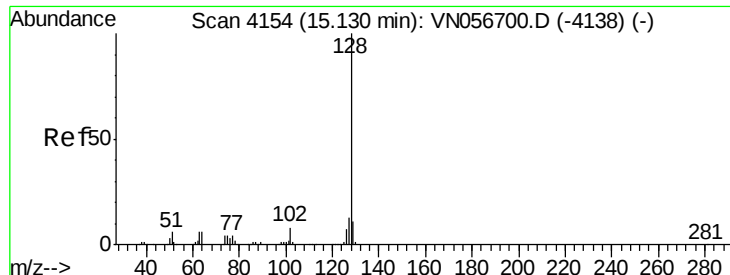
Tot Ion:119 Resp: 550
 Ion Ratio Lower Upper
 119 100
 91 72.4 31.8 95.4
 134 0.0 13.0 38.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.808 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN056734.D
 Acq: 16 Jul 2019 00:34

Tgt Ion:180 Resp: 538
 Ion Ratio Lower Upper
 180 100
 182 60.2 47.2 141.6
 145 0.0 14.2 42.8#





#95

Naphthalene

Concen: 4.620 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

Instrument :

MSVOA_N

ClientSampleId :

PB121354ZHE#04

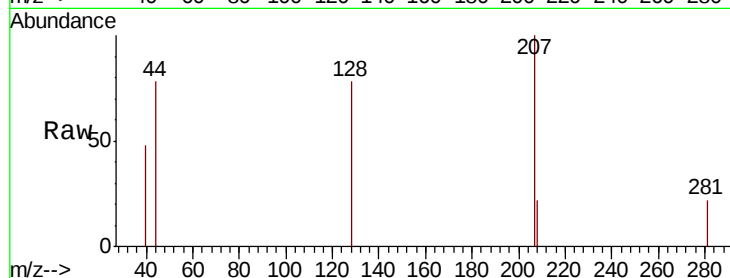
Tot Ion:128 Resp: 1214

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

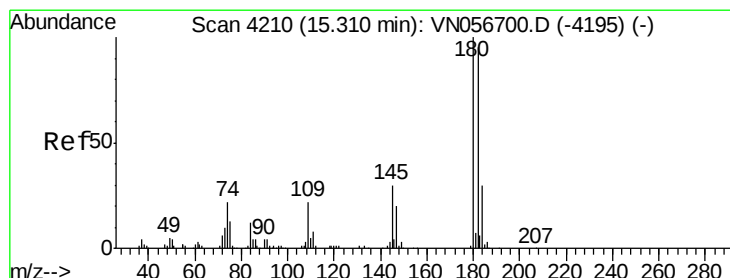
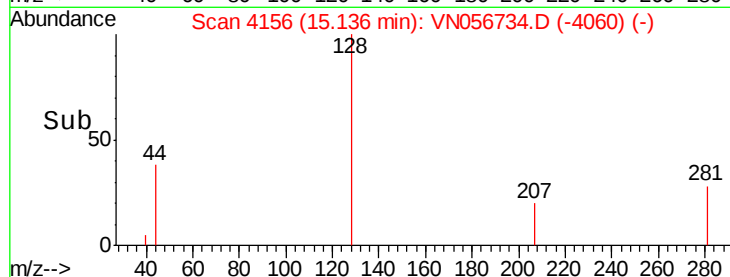
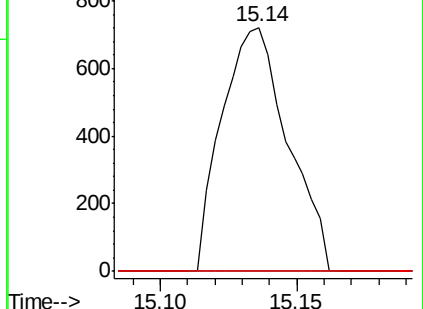
129 0.0 8.7 13.1#



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: 3.420 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056734.D

Acq: 16 Jul 2019 00:34

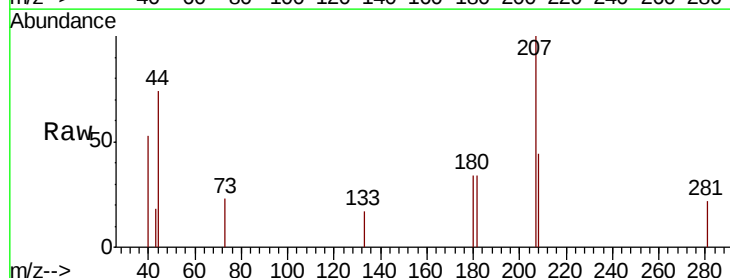
Tgt Ion:180 Resp: 441

Ion Ratio Lower Upper

180 100

182 104.5 47.1 141.3

145 0.0 15.0 45.1#



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

