

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\
 Data File : VN056406.D
 Acq On : 20 Jun 2019 16:36
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 21 04:28:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	373889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	631372	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	612815	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	177452	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	209586	50.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.16%	
35) Dibromofluoromethane	7.59	113	180316	45.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.56%	
50) Toluene-d8	10.09	98	778216	50.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	12.40	95	247742	48.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.98%	

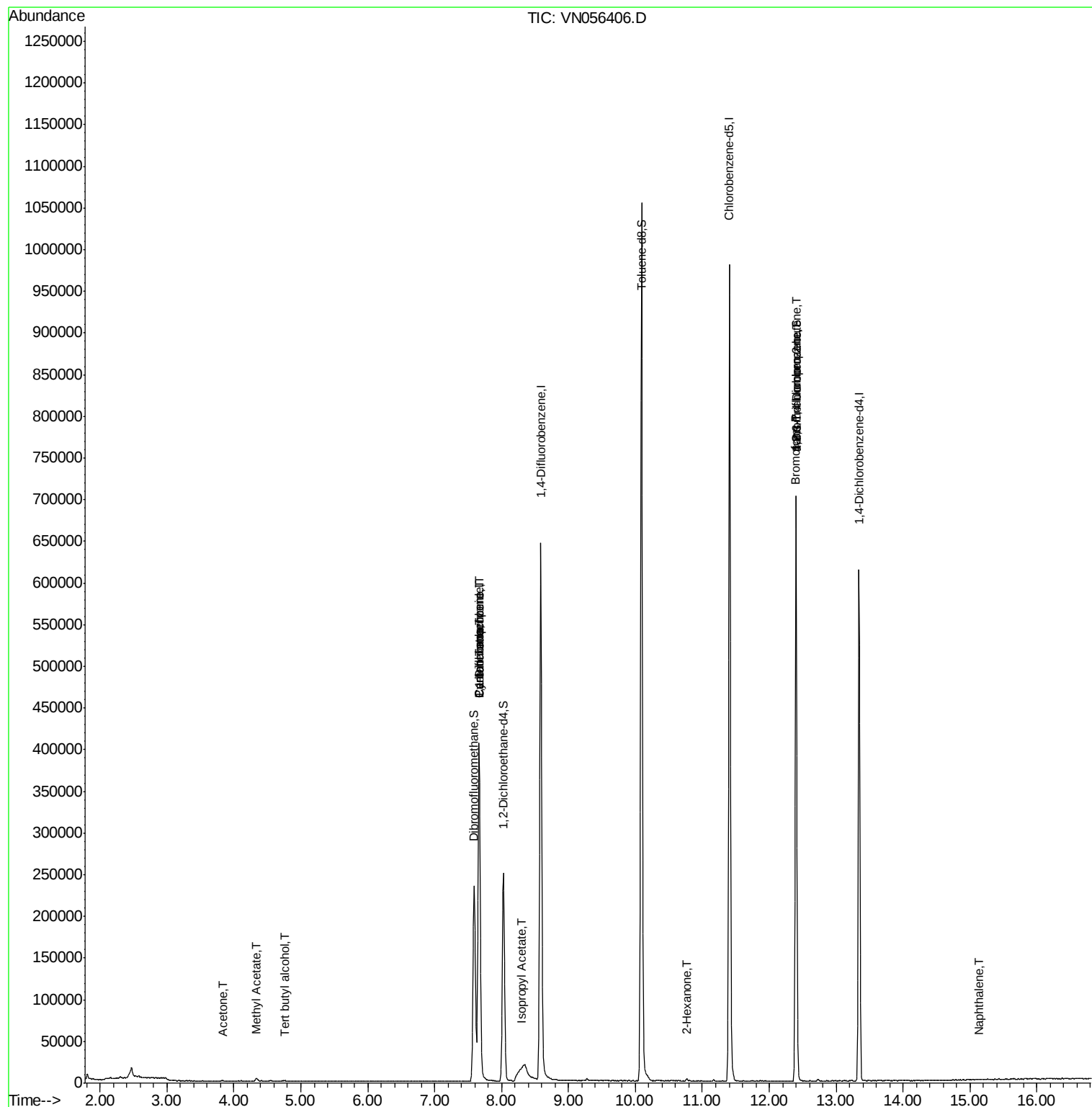
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	206	0.295	ug/l #	74
16) Acetone	3.84	43	1500	0.722	ug/l #	42
18) Methyl Acetate	4.33	43	6765	0.810	ug/l #	75
20) Methylene Chloride	4.54	84	145	Below Cal	#	36
31) Cyclohexane	7.66	56	5436	0.850	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24420	4.394	ug/l #	49
38) Carbon Tetrachloride	7.66	117	31871	6.558	ug/l #	14
43) Isopropyl Acetate	8.29	43	20325	2.414	ug/l #	54
59) 2-Hexanone	10.76	43	1153	0.289	ug/l #	24
71) Bromoform	12.39	173	256	3.214	ug/l #	28
73) Isopropylbenzene	12.40	105	118	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	115900	31.499	ug/l #	100
79) 2-Chlorotoluene	12.78	91	33	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	12.40	75	115900	111.952	ug/l #	8
95) Naphthalene	15.13	128	508	5.301	ug/l #	70

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056406.D

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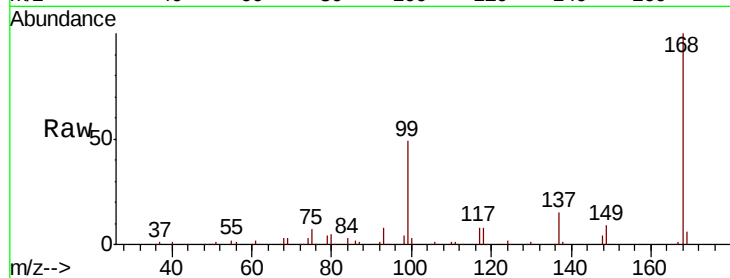
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 373889

Ion Ratio Lower Upper

168 100

99 49.1 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

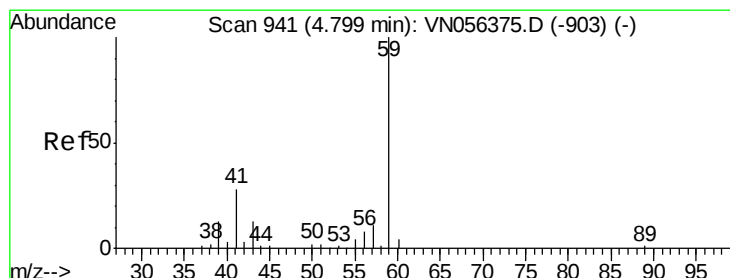
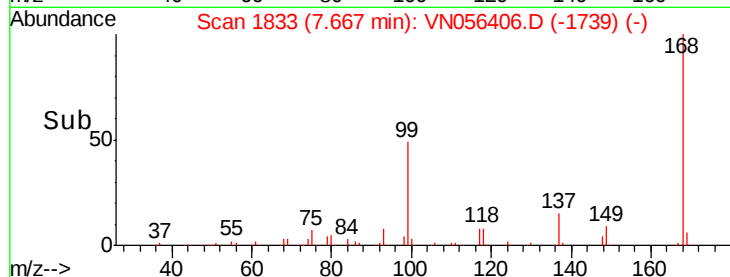
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.295 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.05 min

Lab File: VN056406.D

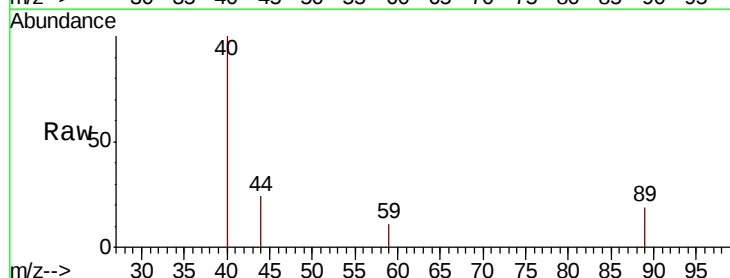
Acq: 20 Jun 2019 16:36

Tgt Ion: 59 Resp: 206

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

200

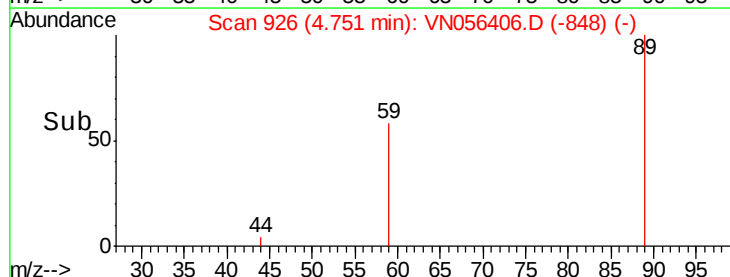
150

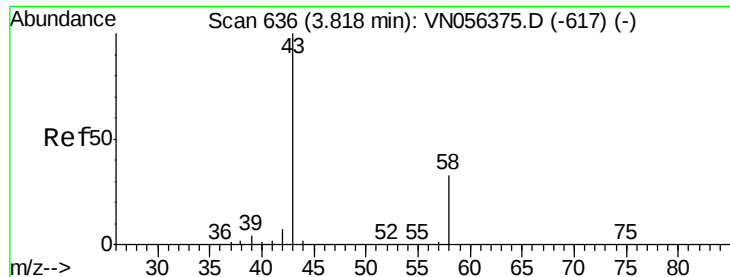
100

50

0

Time-->





#16

Acetone

Concen: 0.722 ug/l

RT: 3.84 min Scan# 642

Delta R.T. 0.02 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

Instrument :

MSVOA_N

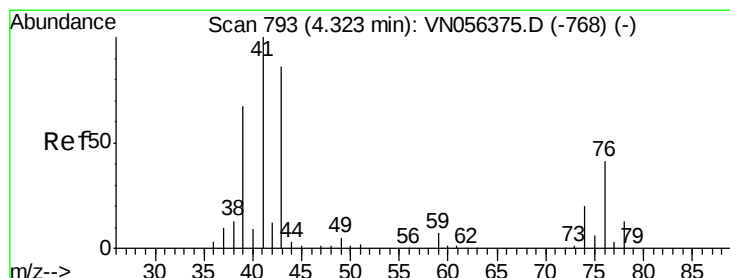
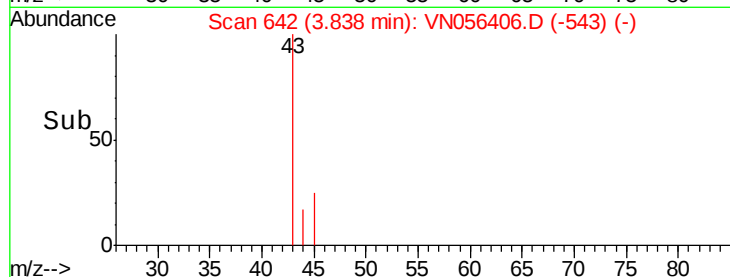
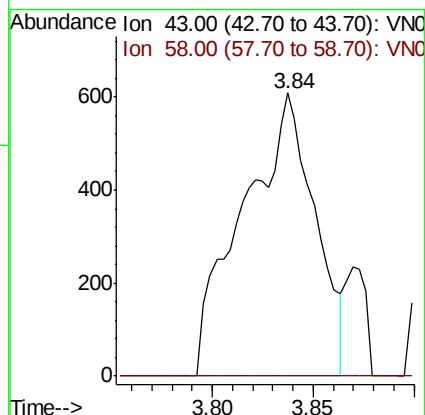
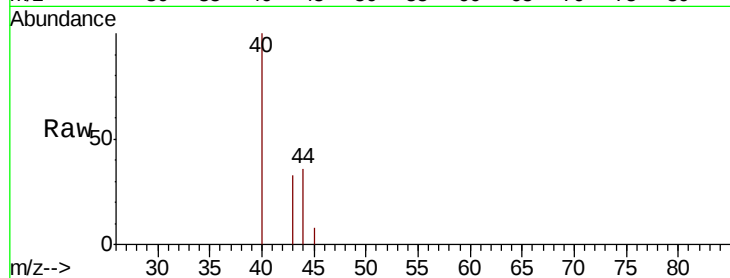
ClientSampled :

Tot Ion: 43 Resp: 1500

Ion Ratio Lower Upper

43 100

58 0.0 26.4 39.6#



#18

Methyl Acetate

Concen: 0.810 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056406.D

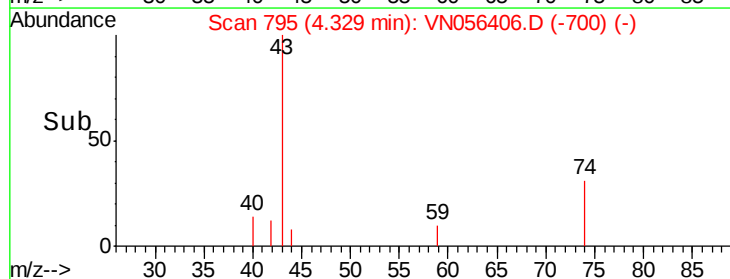
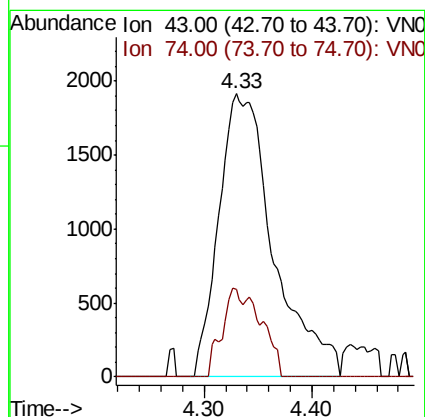
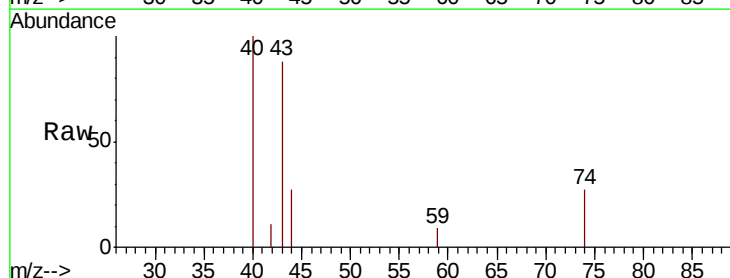
Acq: 20 Jun 2019 16:36

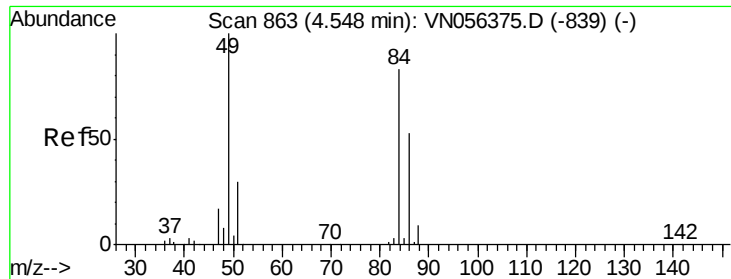
Tgt Ion: 43 Resp: 6765

Ion Ratio Lower Upper

43 100

74 11.6 19.2 28.8#

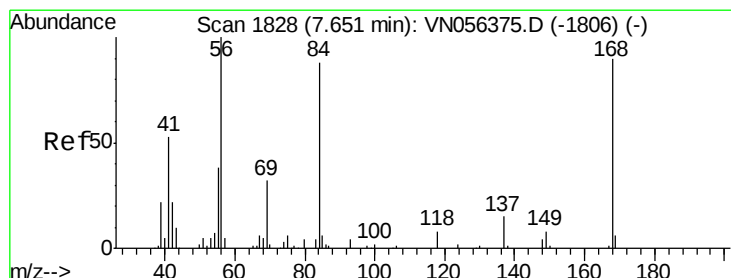
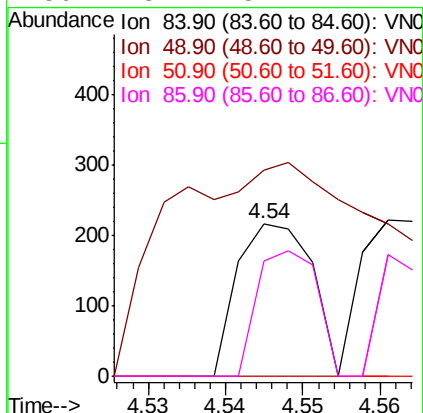
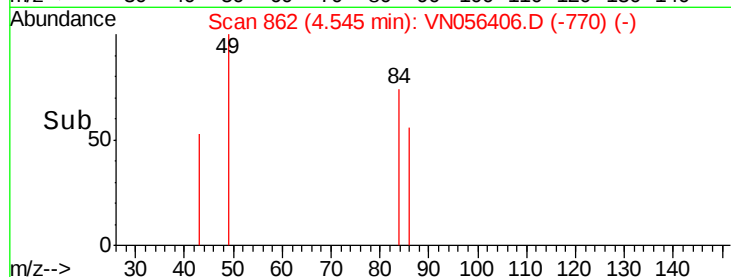
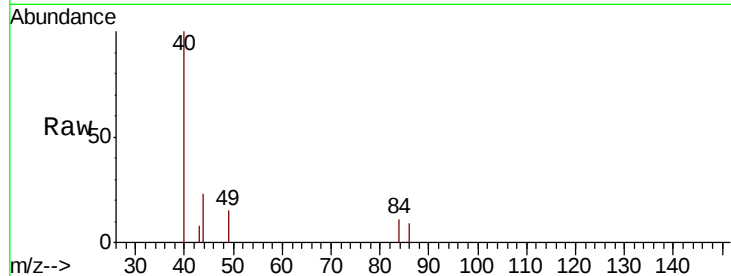




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN056406.D
Acq: 20 Jun 2019 16:36

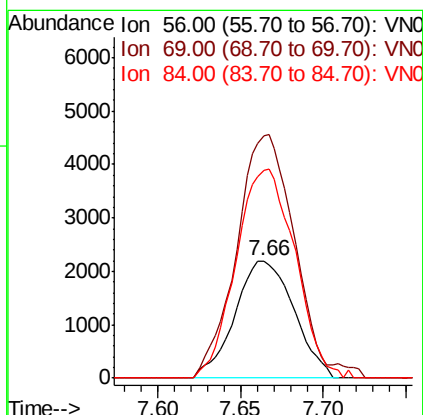
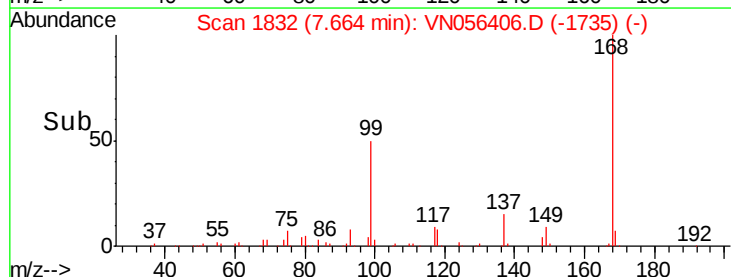
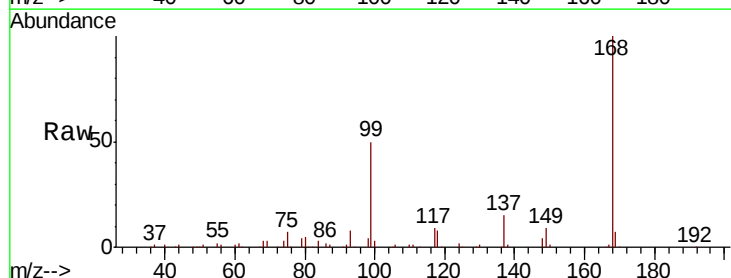
Instrument :
MSVOA_N
ClientSampled :

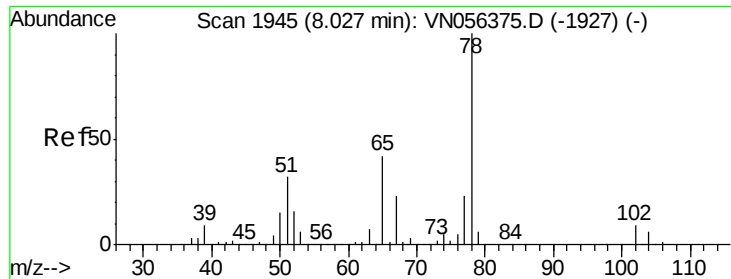
Tot Ion: 84 Resp: 145
Ion Ratio Lower Upper
84 100
49 19.4 96.4 144.6#
51 0.0 28.6 43.0#
86 75.1 51.4 77.2



#31
Cyclohexane
Concen: 0.850 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056406.D
Acq: 20 Jun 2019 16:36

Tgt Ion: 56 Resp: 5436
Ion Ratio Lower Upper
56 100
69 207.1 25.8 38.6#
84 176.8 69.4 104.0#





#33

1,2-Dichloroethane-d4

Concen: 50.578 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

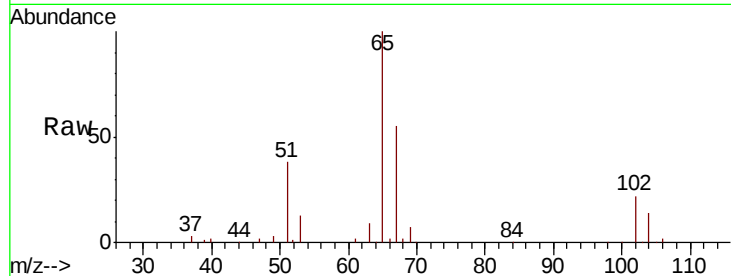
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 209586

Ion Ratio Lower Upper

65 100

67 54.6 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

100000

80000

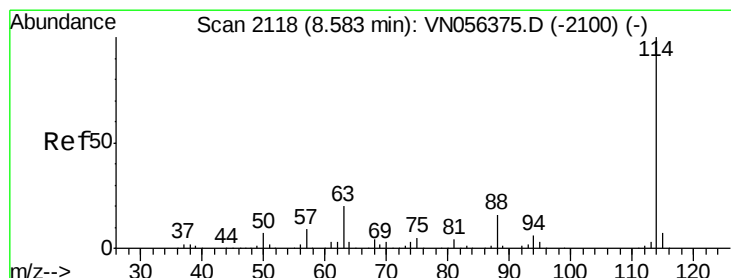
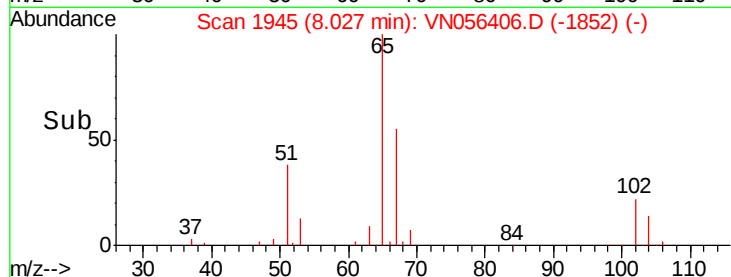
60000

40000

20000

0

Time--> 7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

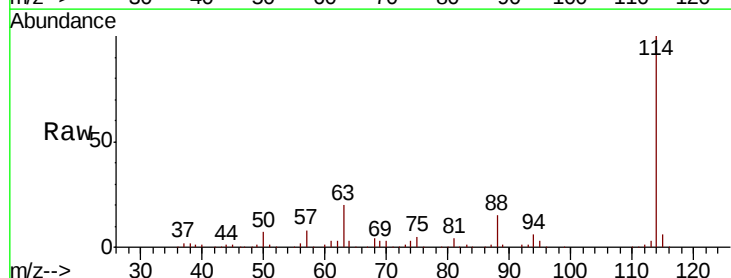
Tgt Ion: 114 Resp: 631372

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

88 15.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

400000

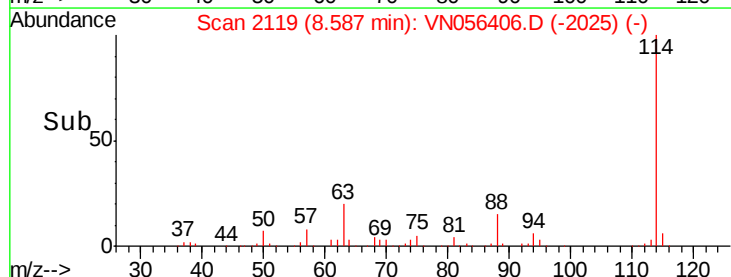
300000

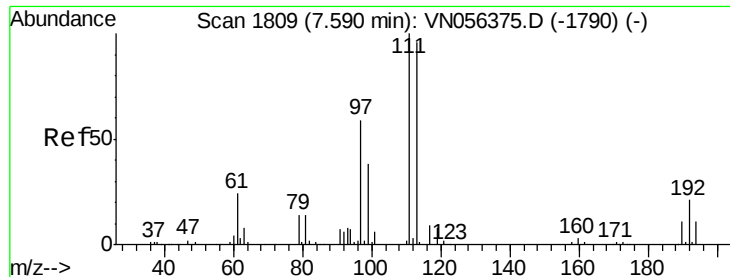
200000

100000

0

Time--> 8.50 8.60 8.70

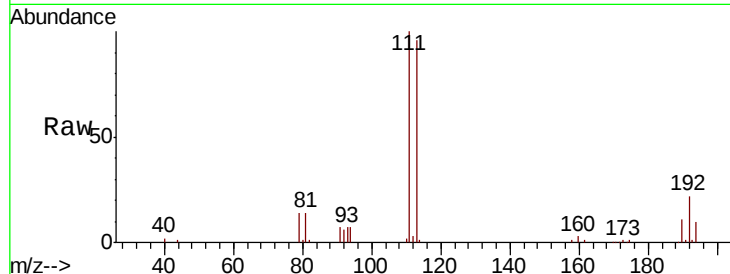




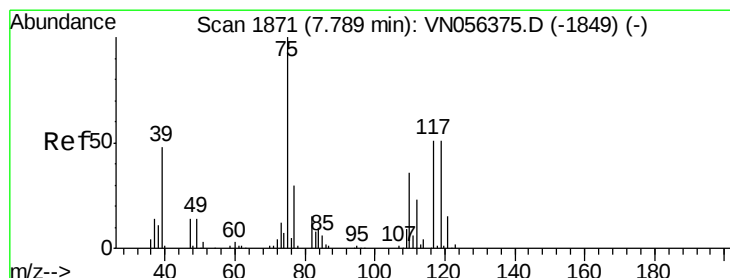
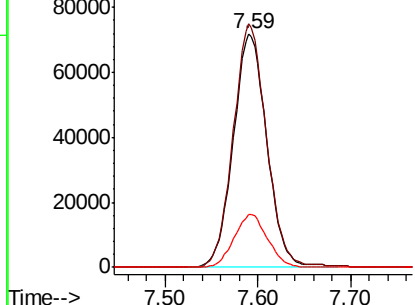
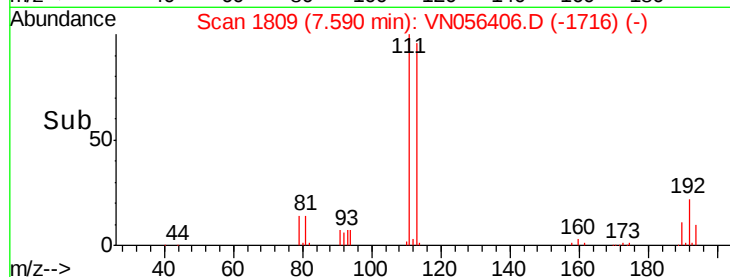
#35
 Dibromofluoromethane
 Concen: 45.780 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056406.D
 Acq: 20 Jun 2019 16:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.9	124.3
192	22.7	17.7	26.5

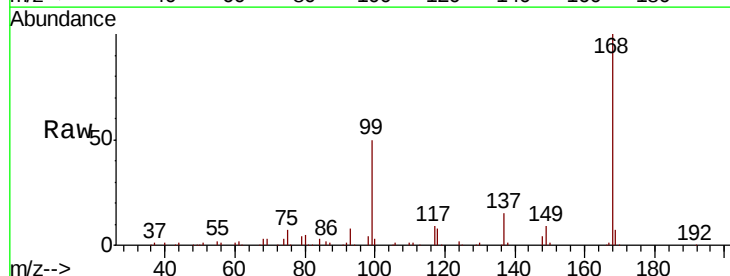


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

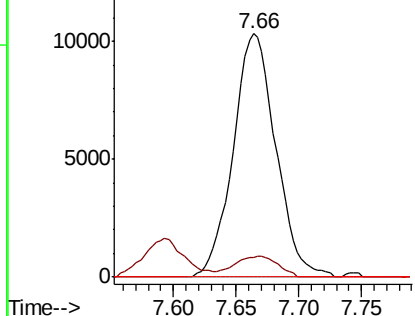
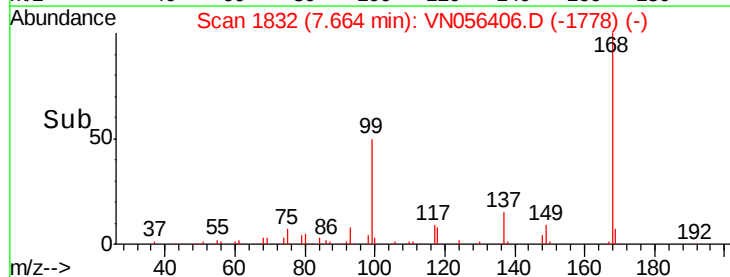


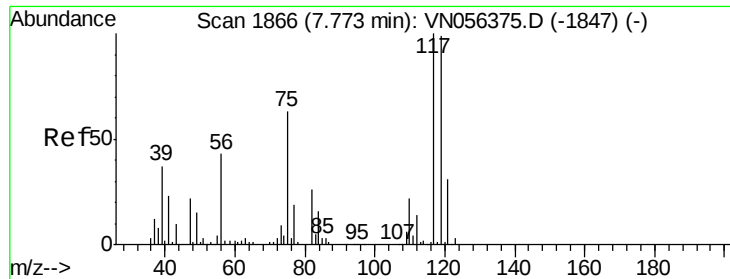
#36
 1,1-Dichloropropene
 Concen: 4.394 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056406.D
 Acq: 20 Jun 2019 16:36

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.3#
77	0.0	24.6	36.8#



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

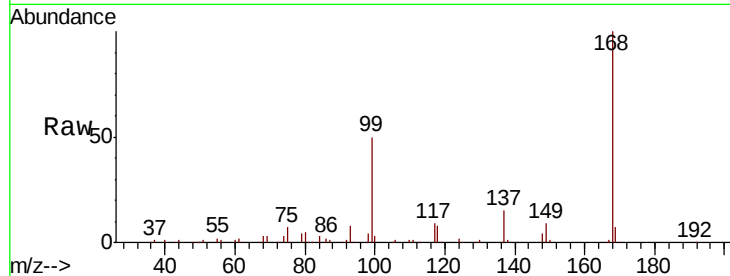




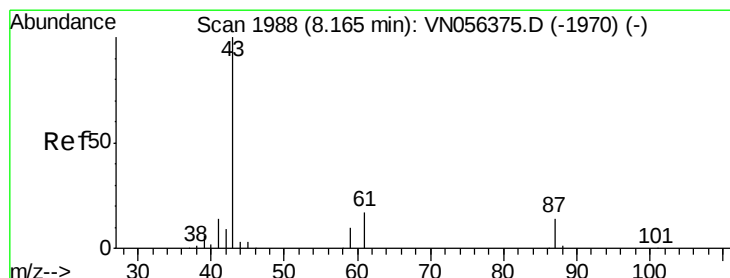
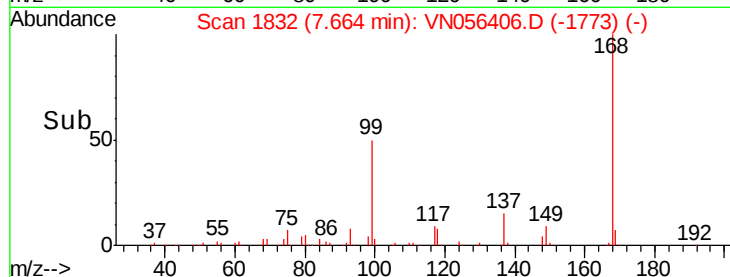
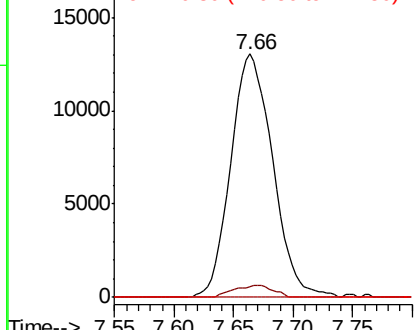
#38
Carbon Tetrachloride
Concen: 6.558 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056406.D
Acq: 20 Jun 2019 16:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 31871
Ion Ratio Lower Upper
117 100
119 4.5 79.1 118.7#
121 0.0 24.8 37.2#

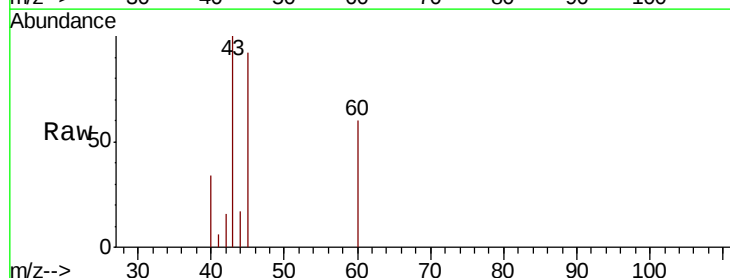


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

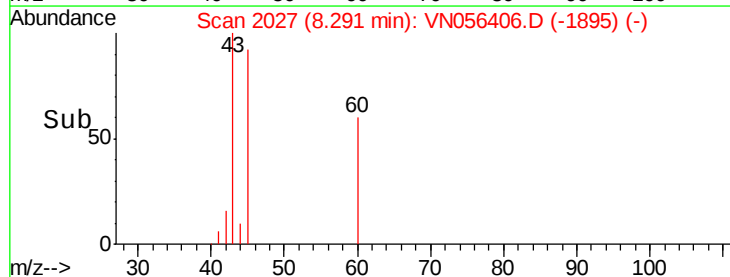
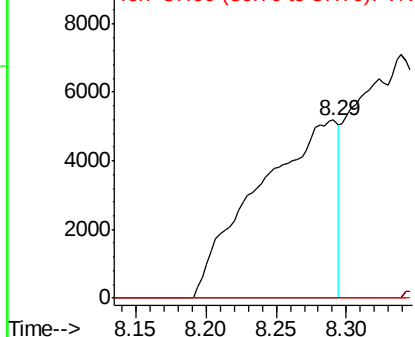


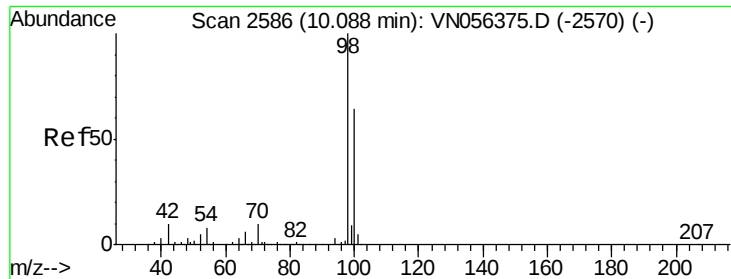
#43
Isopropyl Acetate
Concen: 2.414 ug/l
RT: 8.29 min Scan# 2027
Delta R.T. 0.13 min
Lab File: VN056406.D
Acq: 20 Jun 2019 16:36

Tgt Ion: 43 Resp: 20325
Ion Ratio Lower Upper
43 100
61 0.0 22.0 33.0#
87 0.0 11.0 16.4#



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: 50.778 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

Instrument :

MSVOA_N

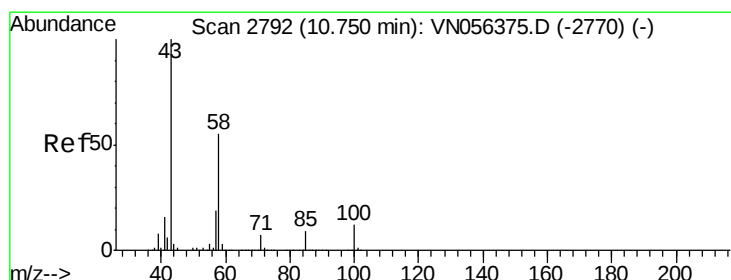
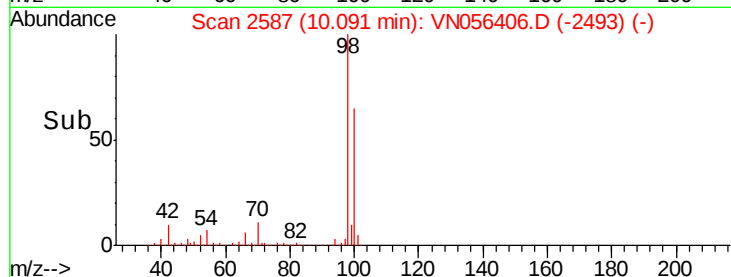
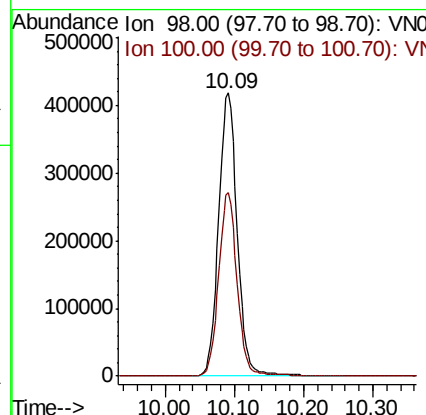
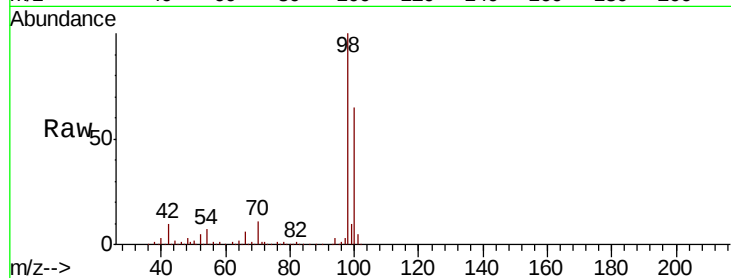
ClientSampleId :

Tot Ion: 98 Resp: 778216

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2



#59

2-Hexanone

Concen: 0.289 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN056406.D

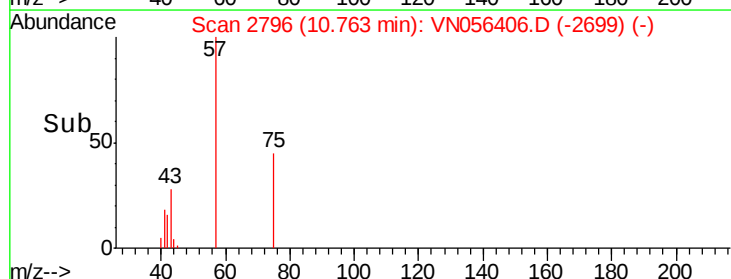
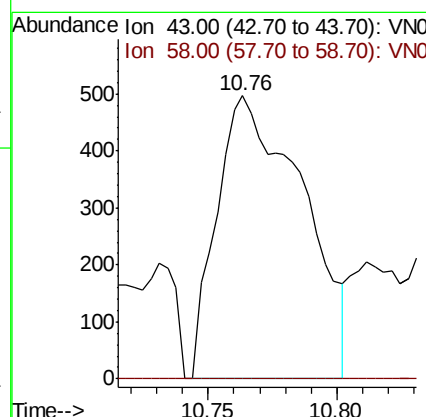
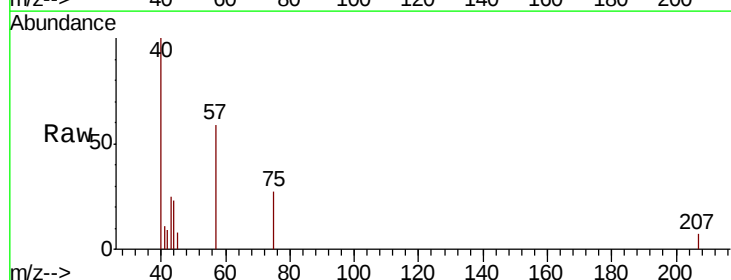
Acq: 20 Jun 2019 16:36

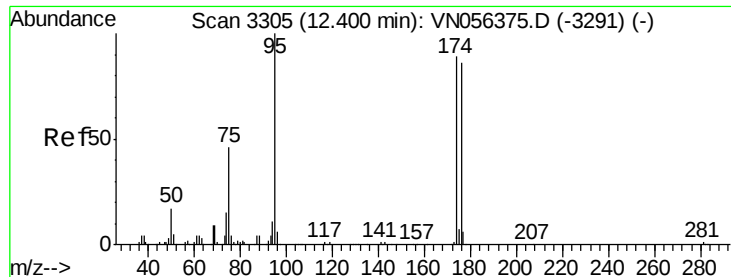
Tgt Ion: 43 Resp: 1153

Ion Ratio Lower Upper

43 100

58 0.0 27.8 83.4#





#62

4-Bromofluorobenzene

Concen: 48.491 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

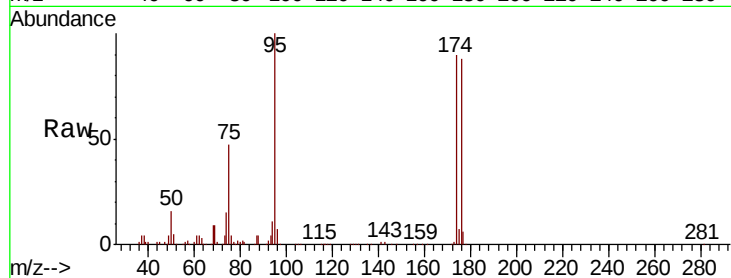
Tot Ion: 95 Resp: 247742

Ion Ratio Lower Upper

95 100

174 90.3 0.0 179.4

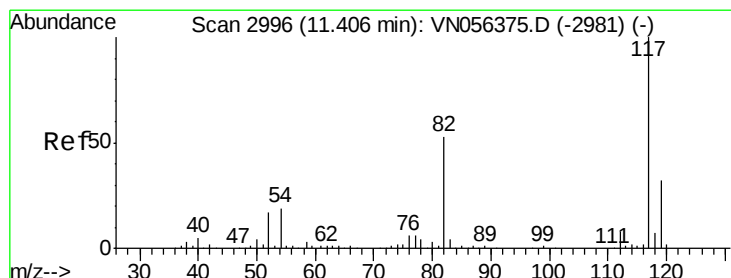
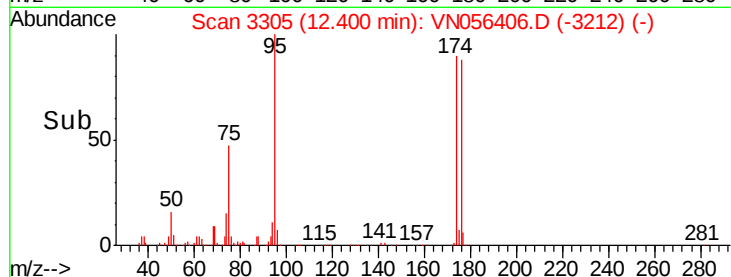
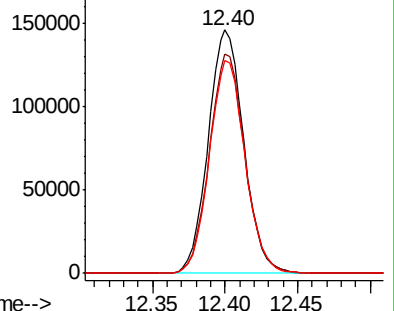
176 87.8 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN056375.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN056375.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN056375.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

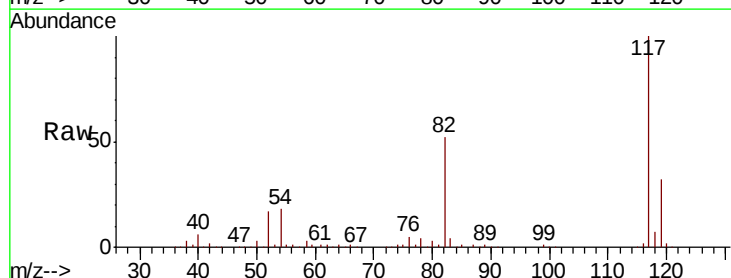
Tgt Ion: 117 Resp: 612815

Ion Ratio Lower Upper

117 100

82 51.7 42.0 63.0

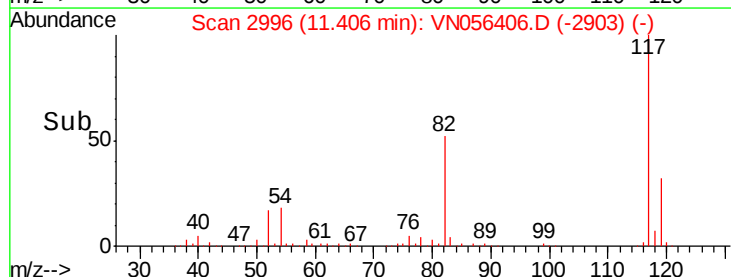
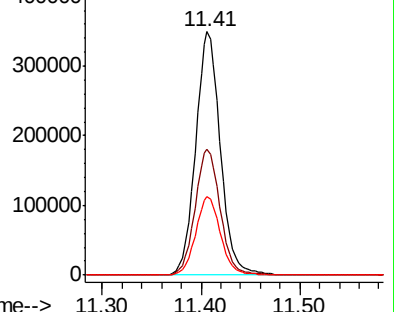
119 32.2 25.3 37.9

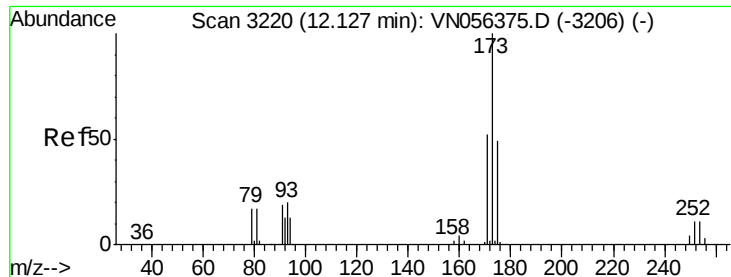


Abundance Ion 116.90 (116.60 to 117.60): VN056375.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN056375.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN056375.D (-2981) (-)





#71

Bromoform

Concen: 3.214 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

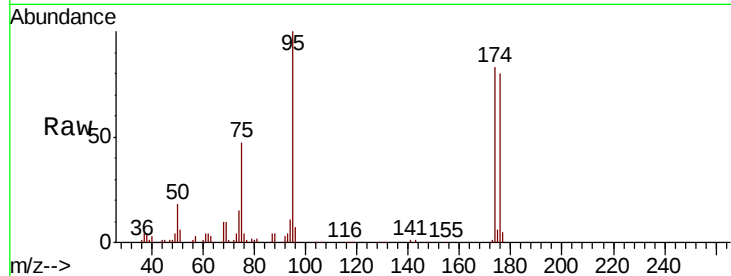
Tot Ion:173 Resp: 256

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.4#

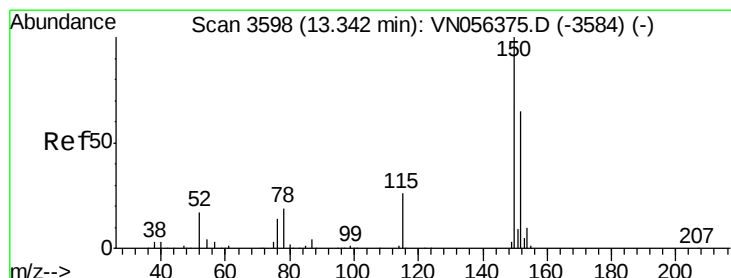
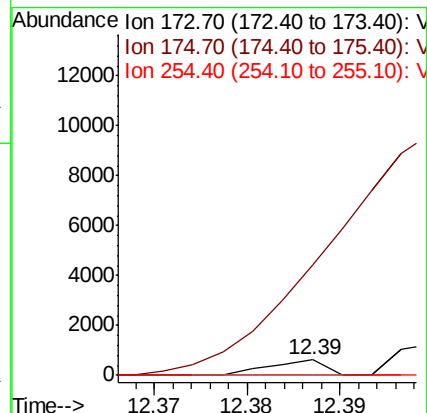
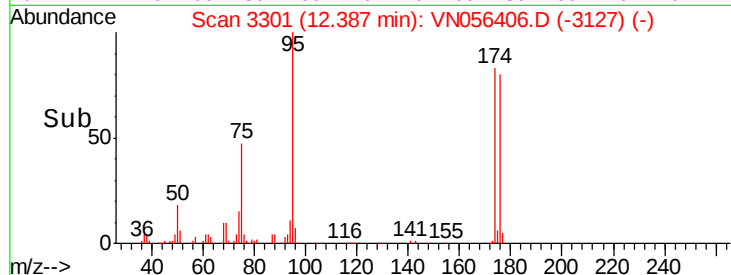
254 0.0 0.0 0.0



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: VN056406.D

Acq: 20 Jun 2019 16:36

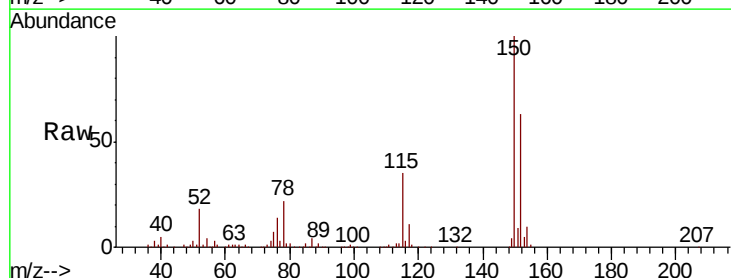
Tgt Ion:152 Resp: 177452

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.4

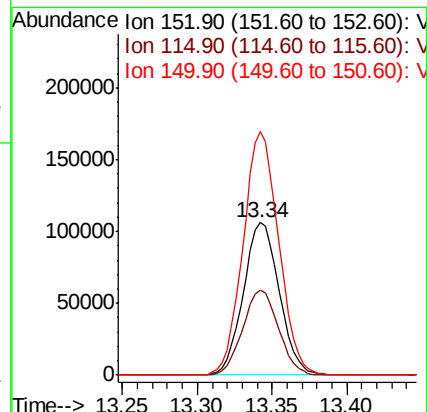
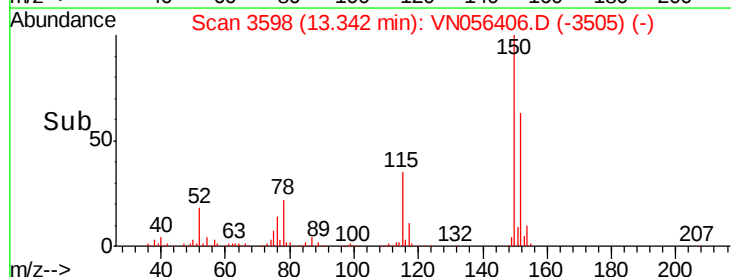
150 158.0 0.0 348.4

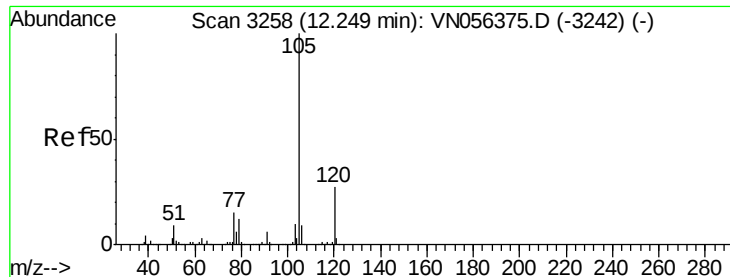


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. 0.15 min

Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

Instrument :

MSVOA_N

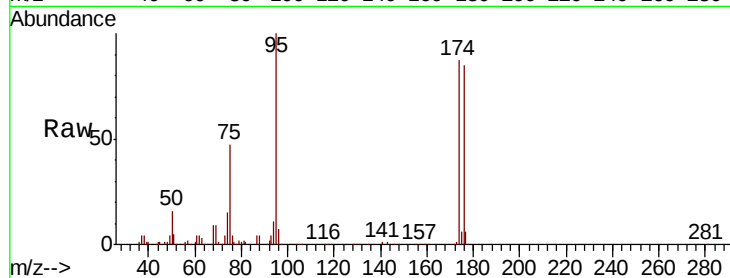
ClientSampled :

Tot Ion: 105 Resp: 118

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

250

200

150

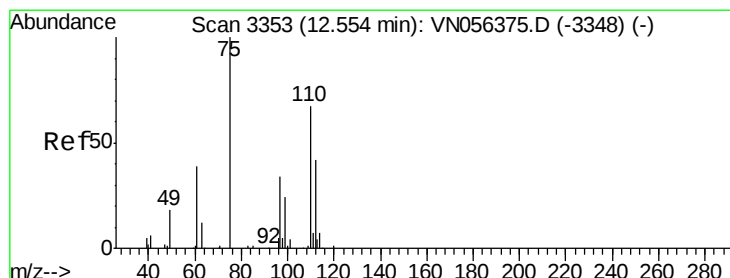
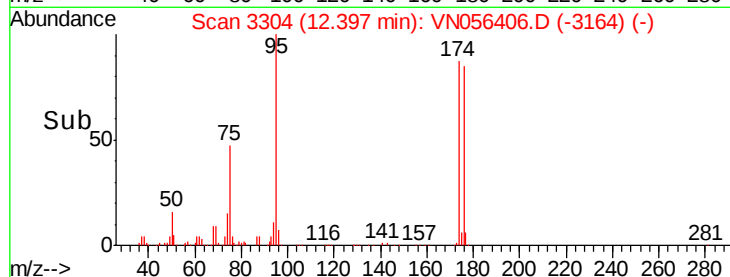
100

50

0

12.38 12.39 12.40 12.41

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.499 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056406.D

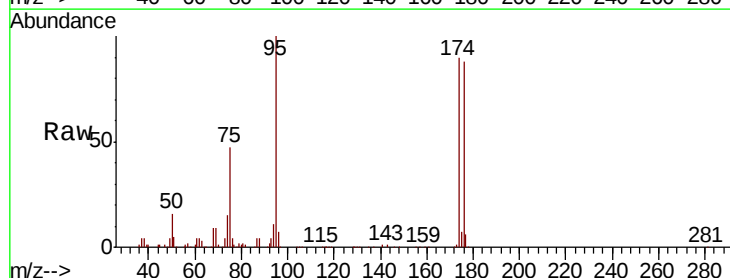
Acq: 20 Jun 2019 16:36

Tgt Ion: 75 Resp: 115900

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

80000

60000

40000

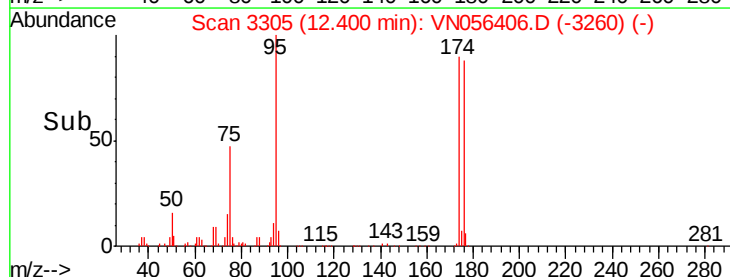
20000

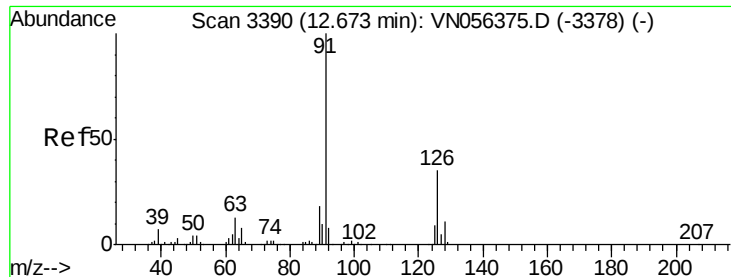
0

12.40

12.50

Time-->

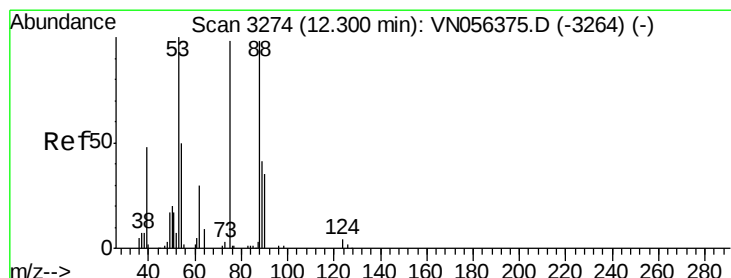
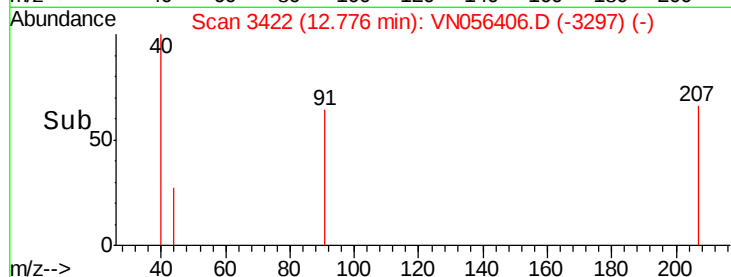
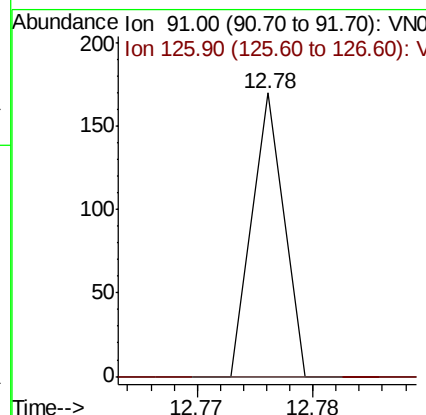
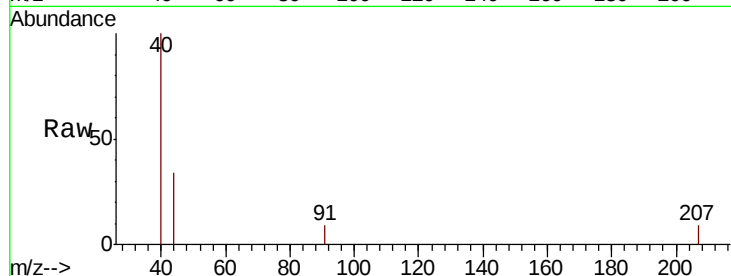




#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.78 min Scan# 3422
Delta R.T. 0.10 min
Lab File: VN056406.D
Acq: 20 Jun 2019 16:36

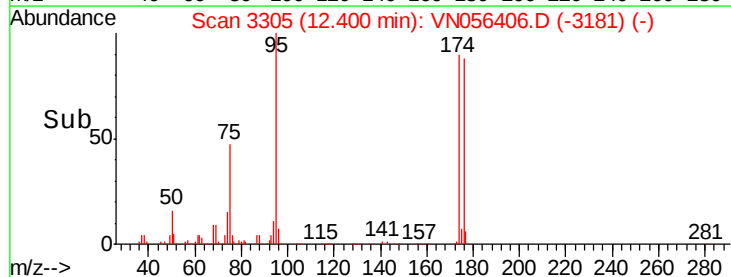
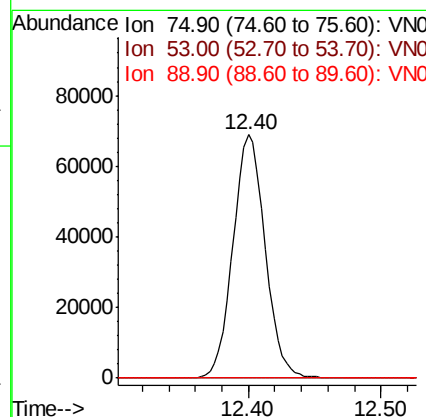
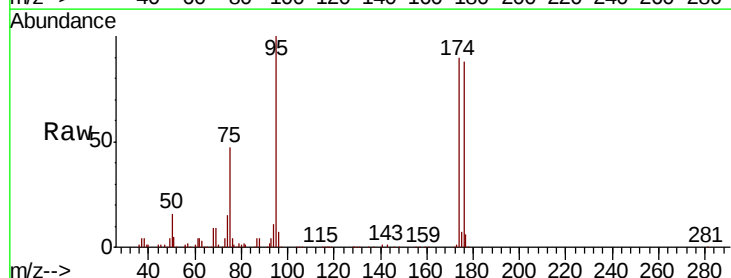
Instrument :
MSVOA_N
ClientSampleId :

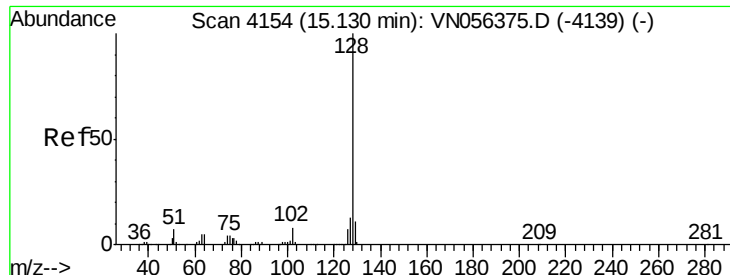
Tot Ion: 91 Resp: 33
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 111.952 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056406.D
Acq: 20 Jun 2019 16:36

Tgt Ion: 75 Resp: 115900
Ion Ratio Lower Upper
75 100
53 0.0 83.9 125.9#
89 0.0 35.0 52.6#





#95

Naphthalene

Concen: 5.301 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

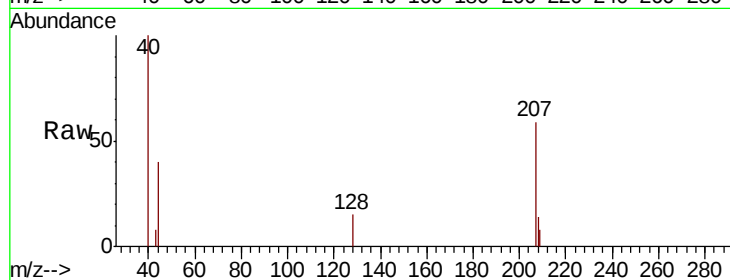
Lab File: VN056406.D

Acq: 20 Jun 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :



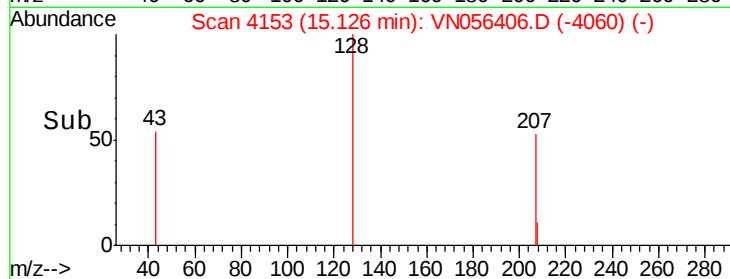
Tot Ion:128 Resp: 508

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

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

