

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\
 Data File : VN056403.D
 Acq On : 20 Jun 2019 15:26
 Operator : JC/SP
 Sample : K3465-01 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390619766-VOA

Quant Time: Jun 21 04:27:55 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

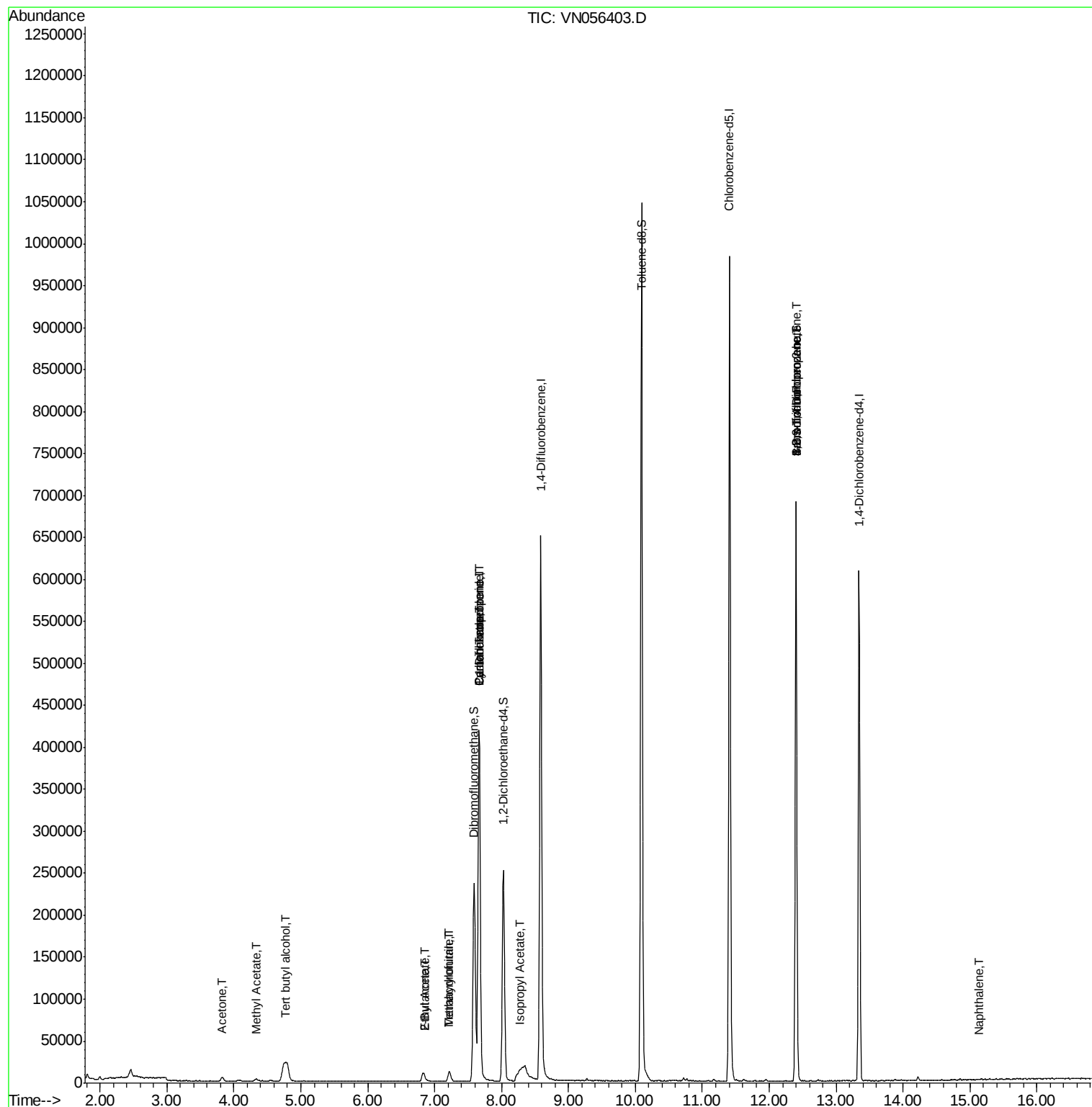
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	382960	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	641503	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	619151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176592	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	211820	49.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.82%	
35) Dibromofluoromethane	7.59	113	185491	46.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.70%	
50) Toluene-d8	10.09	98	786474	50.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.40	95	245336	47.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.52%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.79	59	54752	76.591	ug/l #	91
16) Acetone	3.82	43	7593	3.571	ug/l	92
18) Methyl Acetate	4.34	43	6488	0.702	ug/l #	86
20) Methylene Chloride	4.54	84	322	Below Cal	#	52
25) 2-Butanone	6.86	43	3310	1.176	ug/l	92
29) Tetrahydrofuran	7.22	42	11120	6.465	ug/l	96
31) Cyclohexane	7.67	56	5862	0.894	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24877	4.406	ug/l #	50
37) Ethyl Acetate	6.86	43	3310	0.597	ug/l #	69
38) Carbon Tetrachloride	7.66	117	33129	6.709	ug/l #	14
41) Methacrylonitrile	7.21	41	6134	2.503	ug/l #	23
43) Isopropyl Acetate	8.26	43	14297	1.671	ug/l #	54
71) Bromoform	12.41	173	1958	3.684	ug/l #	1
73) Isopropylbenzene	12.25	105	372	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	114014	31.137	ug/l #	100
79) 2-Chlorotoluene	12.40	91	586	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.72	105	226	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	114014	110.666	ug/l #	8
95) Naphthalene	15.14	128	568	5.308	ug/l #	70

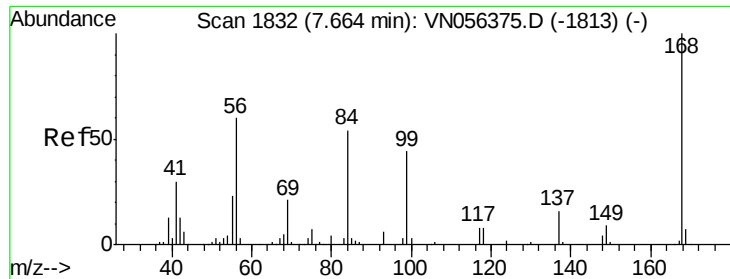
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056403.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

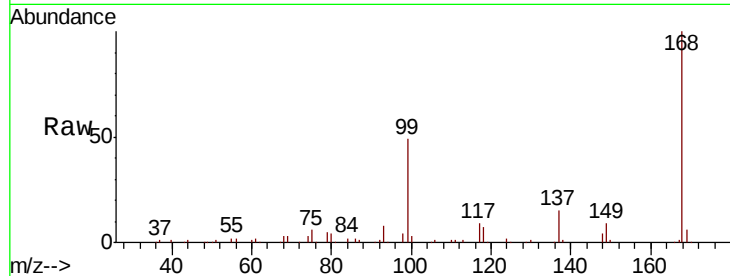
390619766-VOA

Tot Ion:168 Resp: 382960

Ion Ratio Lower Upper

168 100

99 48.9 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN056375.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN056375.D (-1813) (-)

7.66

150000

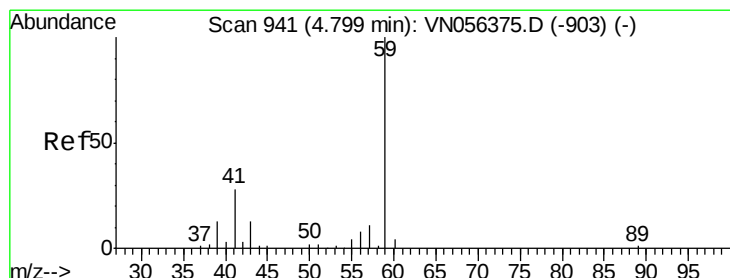
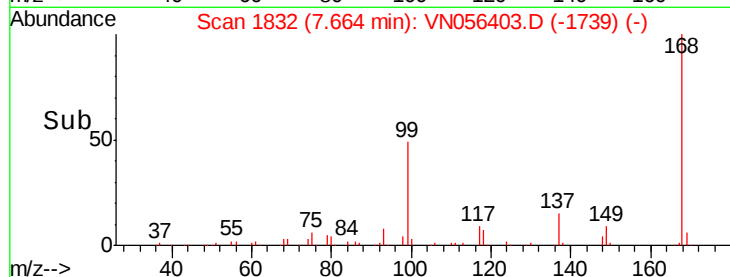
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 76.591 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.01 min

Lab File: VN056403.D

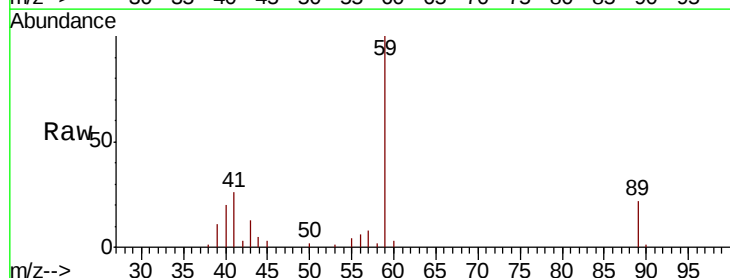
Acq: 20 Jun 2019 15:26

Tgt Ion: 59 Resp: 54752

Ion Ratio Lower Upper

59 100

57 6.2 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN056375.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN056375.D (-903) (-)

4.79

12000

10000

8000

6000

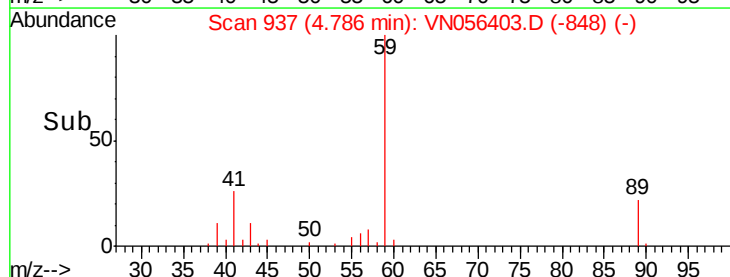
4000

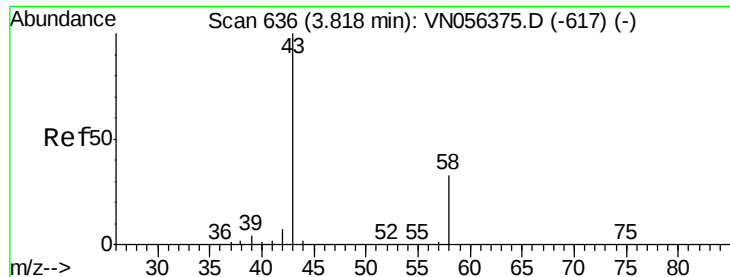
2000

0

Time-->

4.60 4.70 4.80 4.90





#16

Acetone

Concen: 3.571 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056403.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

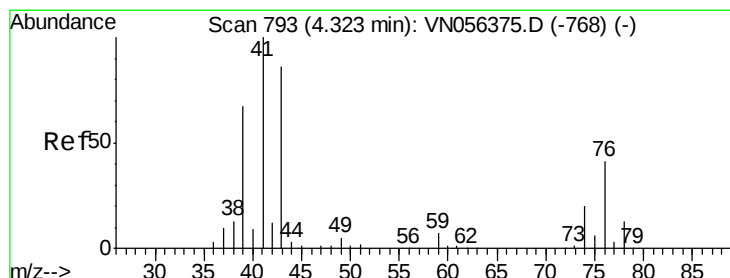
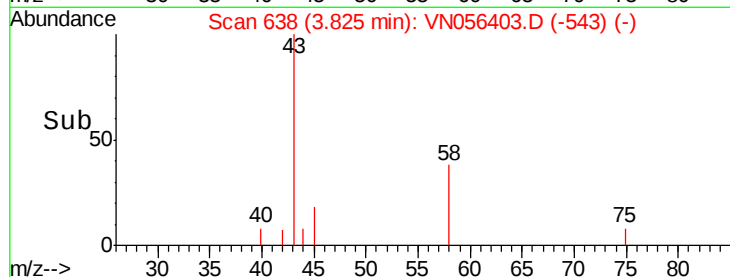
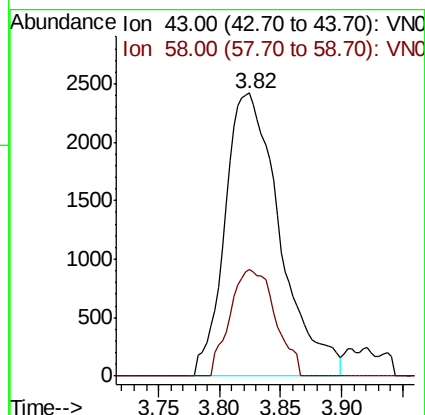
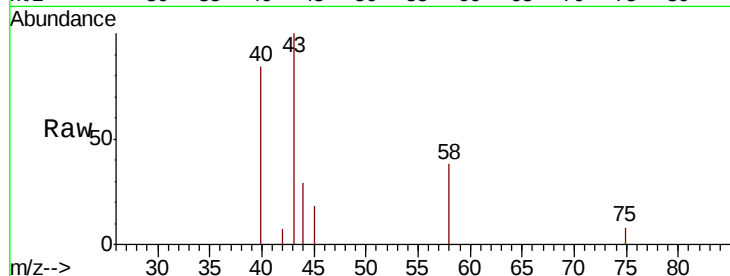
390619766-VOA

Tot Ion: 43 Resp: 7593

Ion Ratio Lower Upper

43 100

58 37.7 26.4 39.6



#18

Methyl Acetate

Concen: 0.702 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056403.D

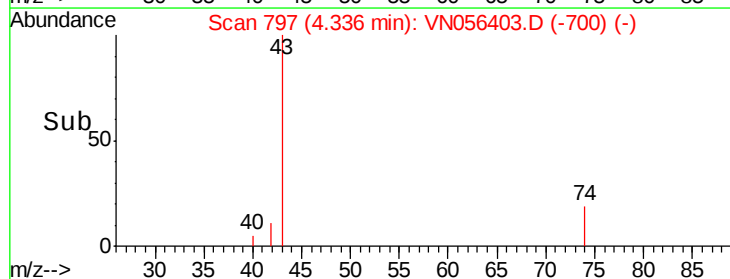
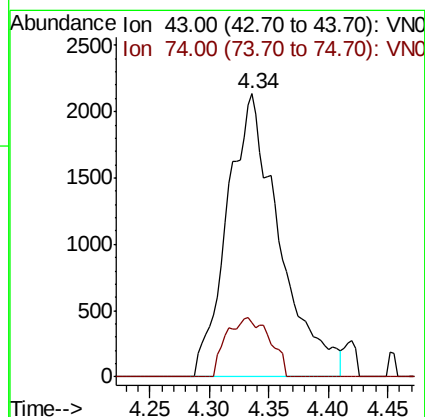
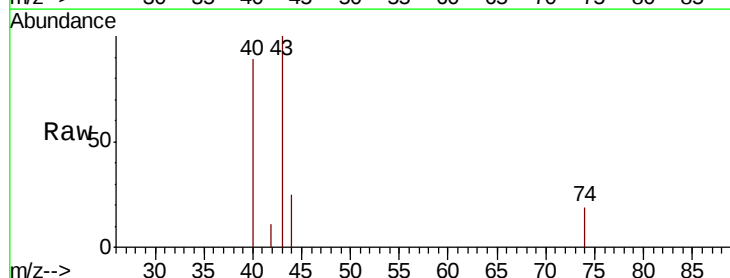
Acq: 20 Jun 2019 15:26

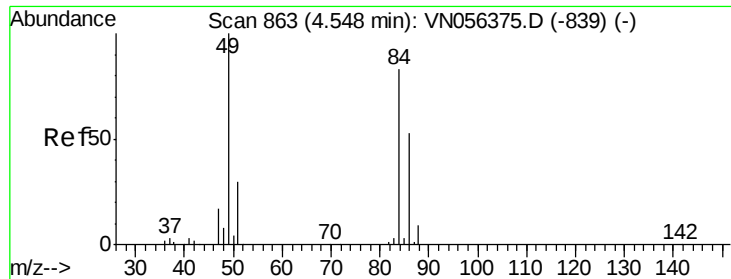
Tgt Ion: 43 Resp: 6488

Ion Ratio Lower Upper

43 100

74 17.3 19.2 28.8#

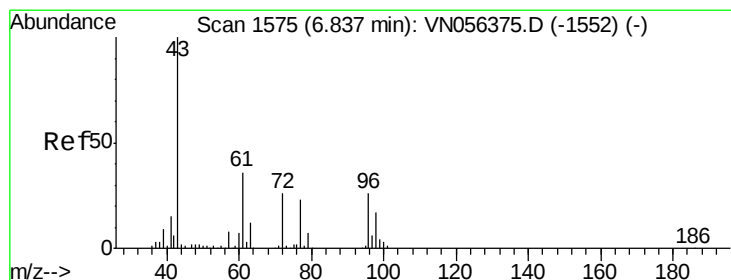
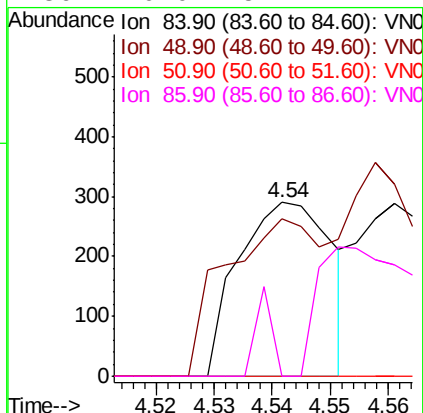
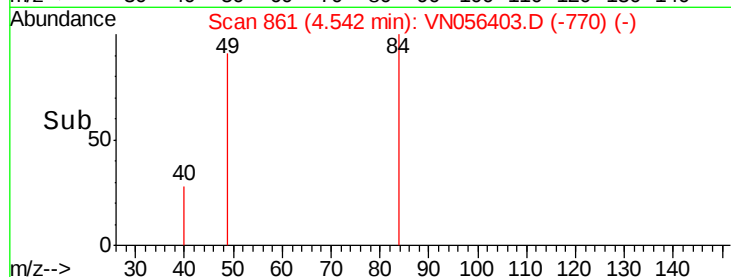
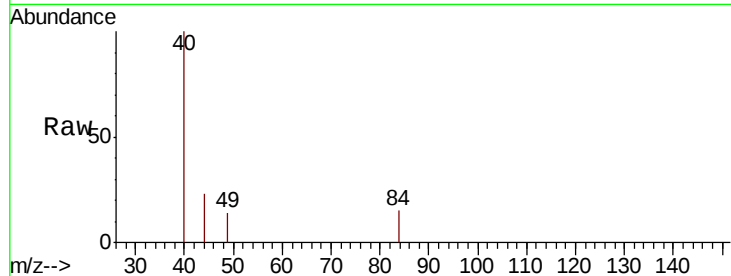




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN056403.D
Acq: 20 Jun 2019 15:26

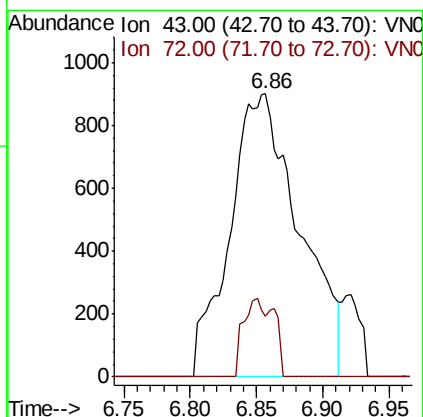
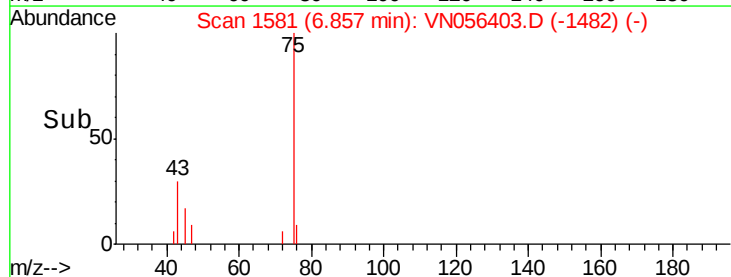
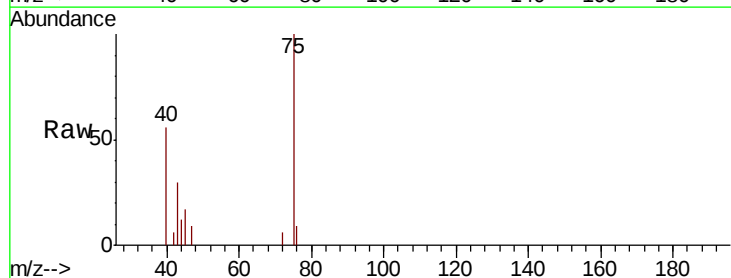
Instrument :
MSVOA_N
ClientSampleId :
390619766-VOA

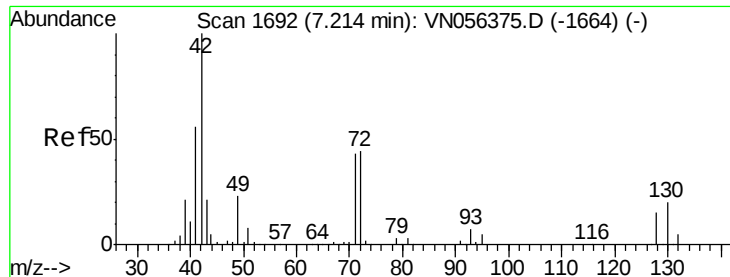
Tot Ion: 84 Resp: 322
Ion Ratio Lower Upper
84 100
49 90.7 96.4 144.6#
51 0.0 28.6 43.0#
86 0.0 51.4 77.2#



#25
2-Butanone
Concen: 1.176 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN056403.D
Acq: 20 Jun 2019 15:26

Tgt Ion: 43 Resp: 3310
Ion Ratio Lower Upper
43 100
72 21.5 20.6 31.0





#29

Tetrahydrofuran

Concen: 6.465 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN056403.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

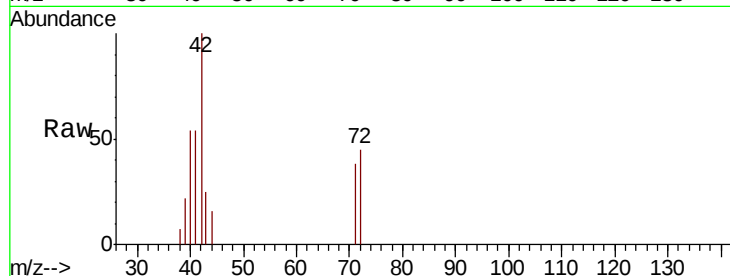
Tot Ion: 42 Resp: 11120

Ion Ratio Lower Upper

42 100

72 40.6 34.7 52.1

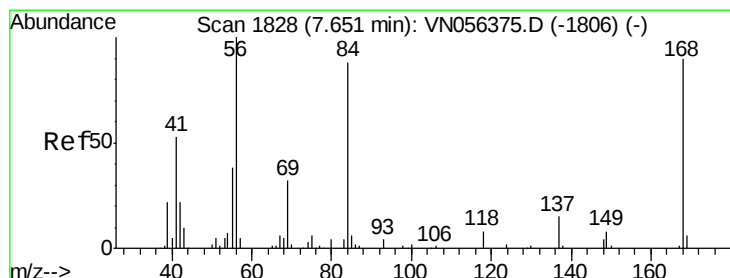
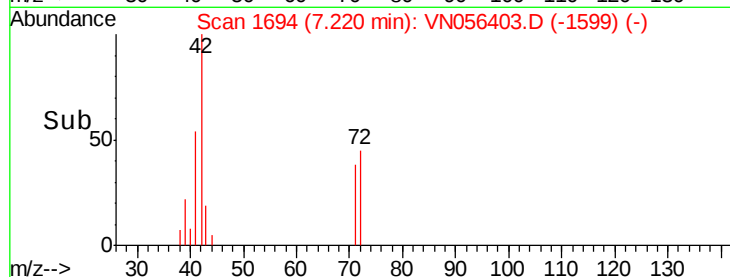
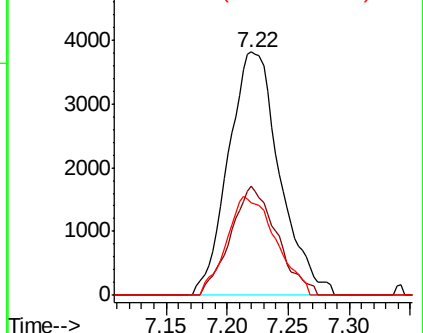
71 38.9 33.0 49.6



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.894 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN056403.D

Acq: 20 Jun 2019 15:26

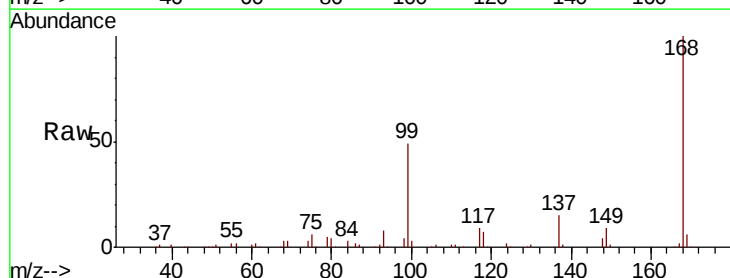
Tgt Ion: 56 Resp: 5862

Ion Ratio Lower Upper

56 100

69 198.3 25.8 38.6#

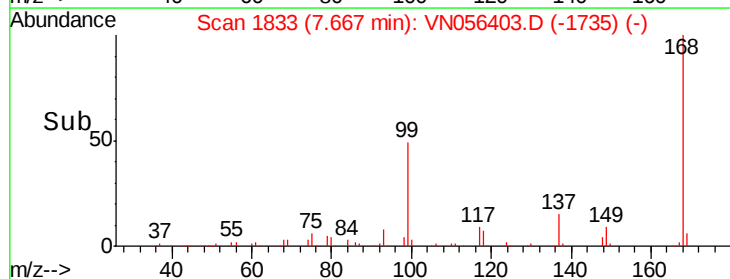
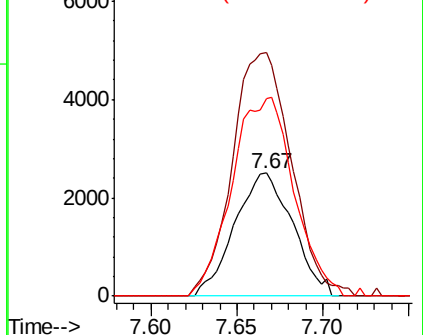
84 160.8 69.4 104.0#

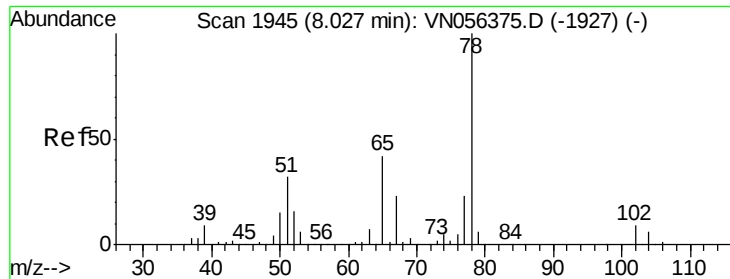


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

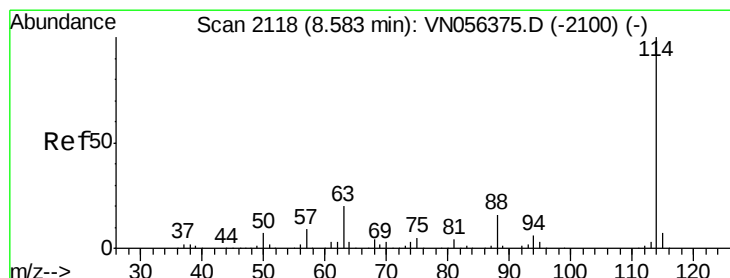
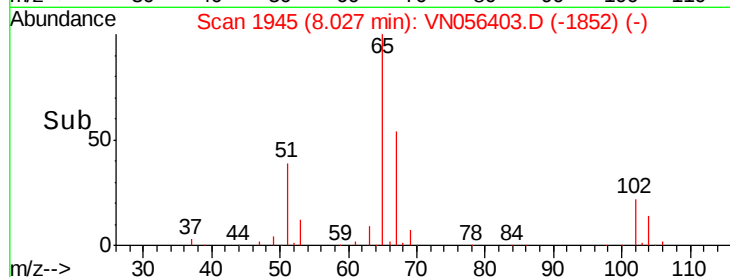
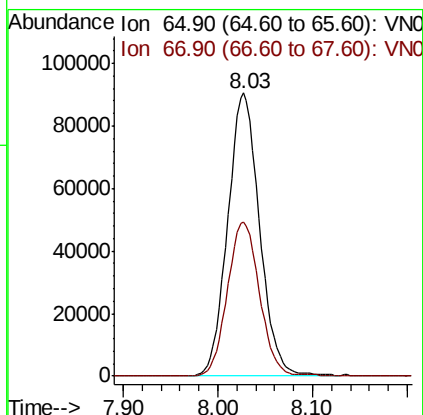
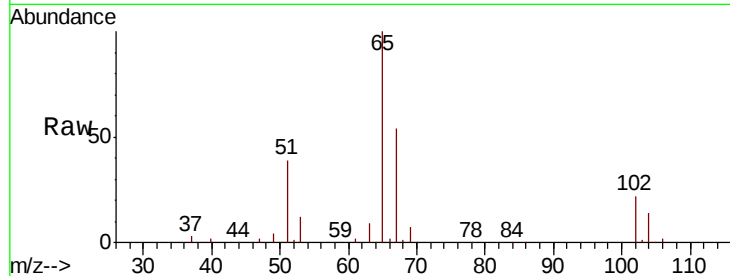




#33
 1,2-Dichloroethane-d4
 Concen: 49.906 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

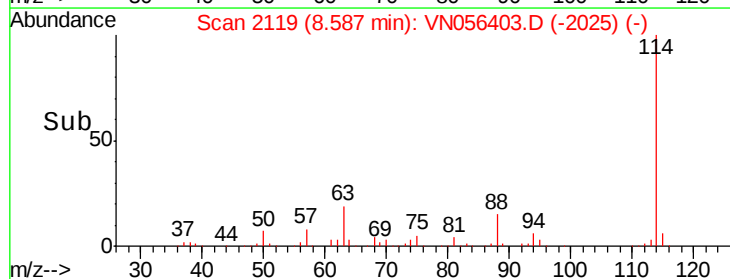
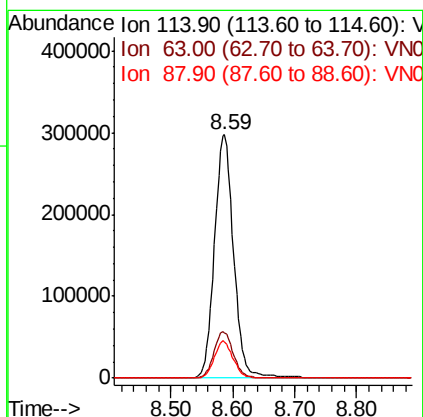
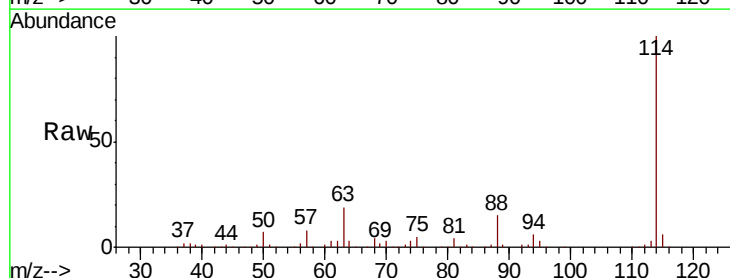
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 390619766-VOA

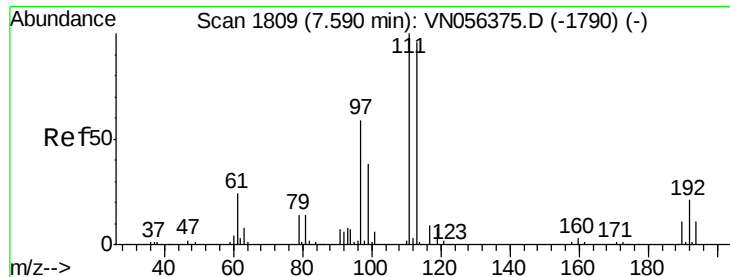
Tot Ion: 65 Resp: 211820
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

Tgt Ion: 114 Resp: 641503
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.0 0.0 31.4

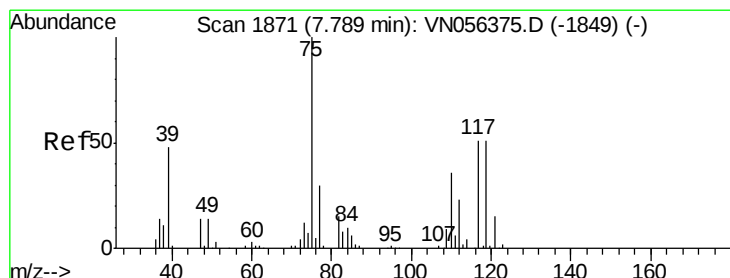
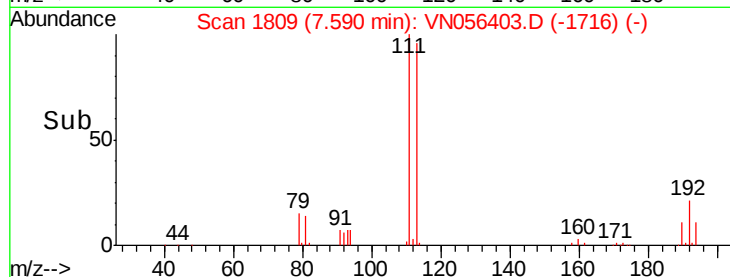
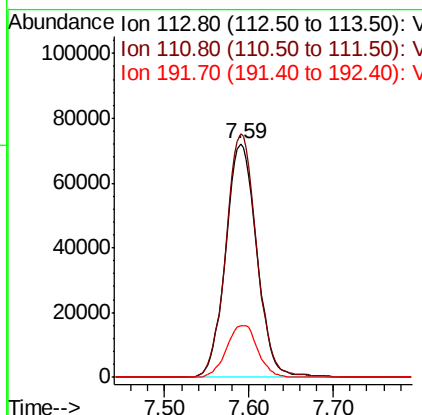
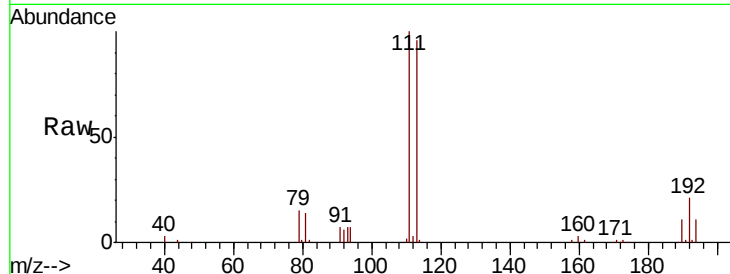




#35
 Dibromofluoromethane
 Concen: 46.350 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

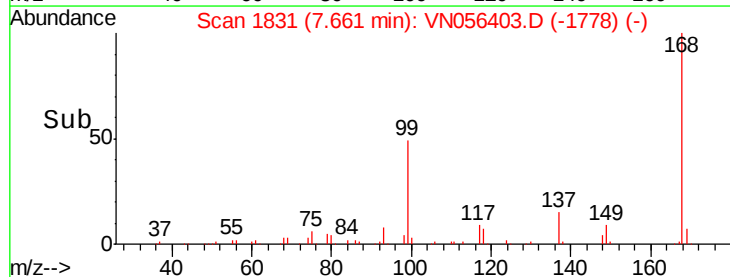
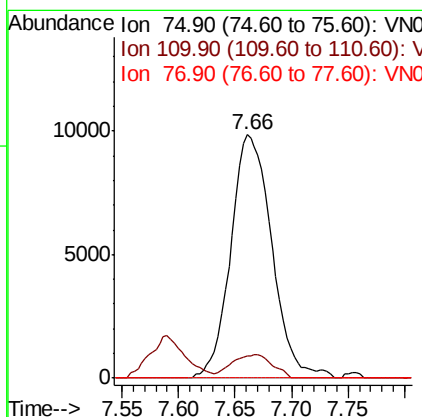
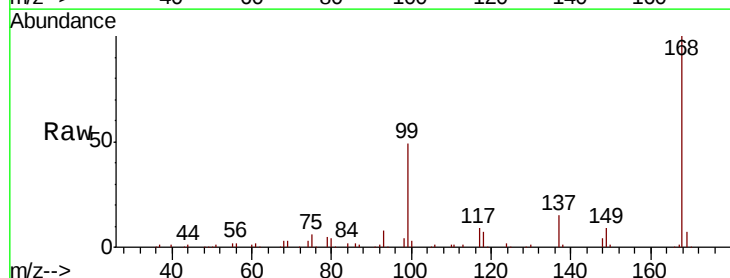
Instrument :
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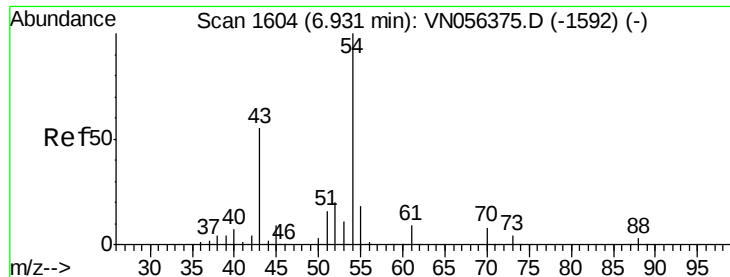
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.9	124.3
192	22.3	17.7	26.5



#36
 1,1-Dichloropropene
 Concen: 4.406 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.3#
77	0.0	24.6	36.8#

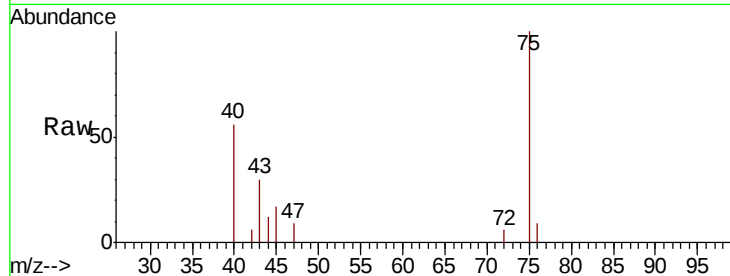




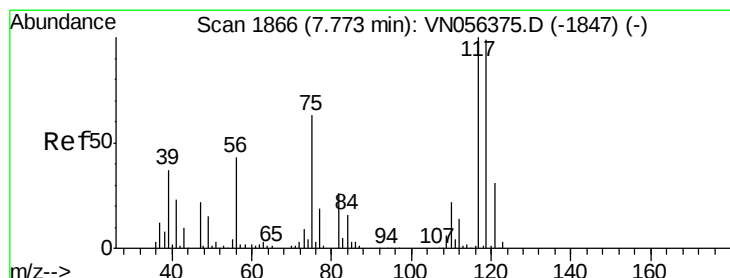
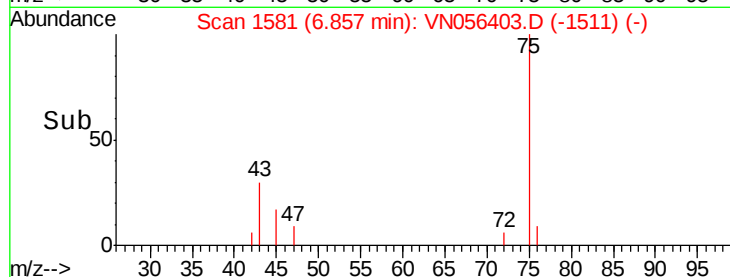
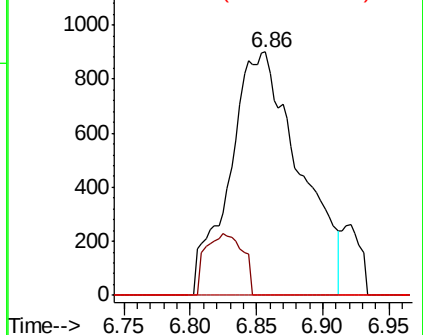
#37
Ethyl Acetate
Concen: 0.597 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. -0.07 min
Lab File: VN056403.D
Acq: 20 Jun 2019 15:26

Instrument :
MSVOA_N
ClientSampleId :
390619766-VOA

Tot Ion: 43 Resp: 3310
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.3 12.5#

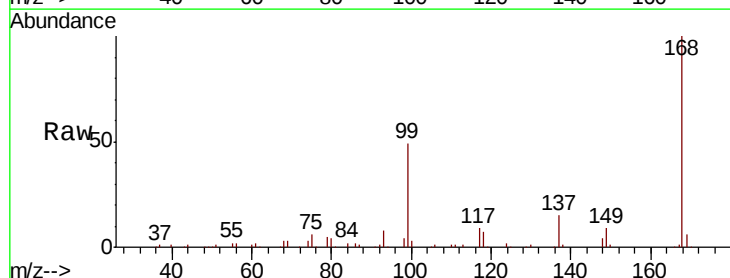


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

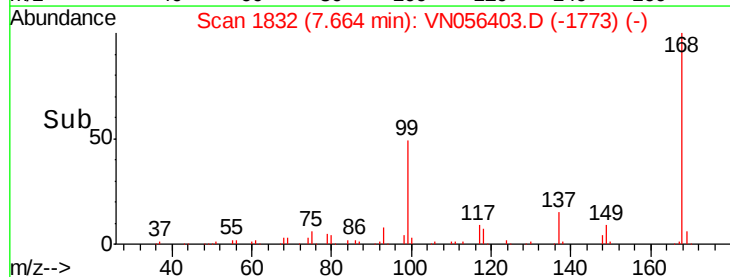
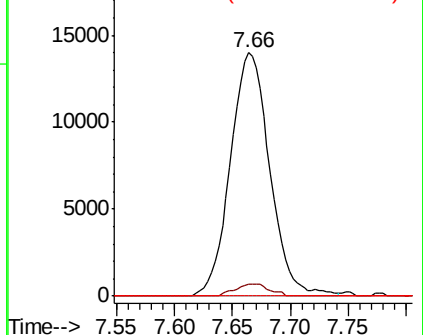


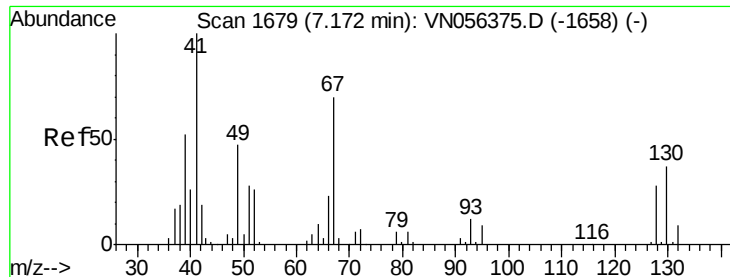
#38
Carbon Tetrachloride
Concen: 6.709 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056403.D
Acq: 20 Jun 2019 15:26

Tgt Ion: 117 Resp: 33129
Ion Ratio Lower Upper
117 100
119 4.9 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

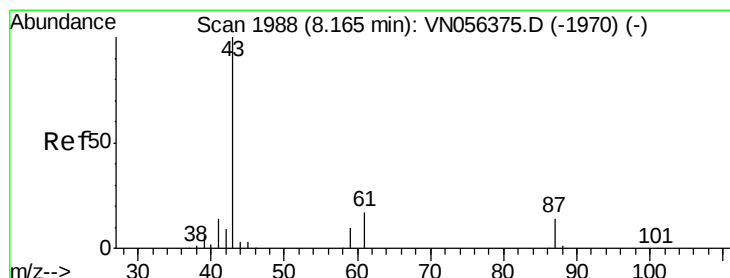
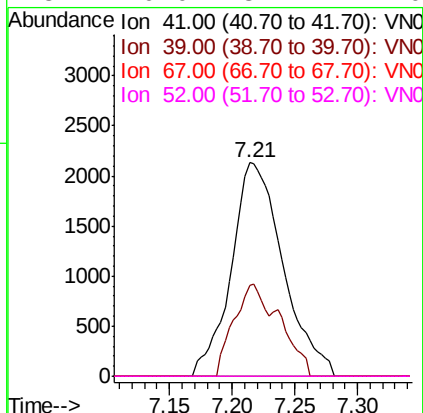
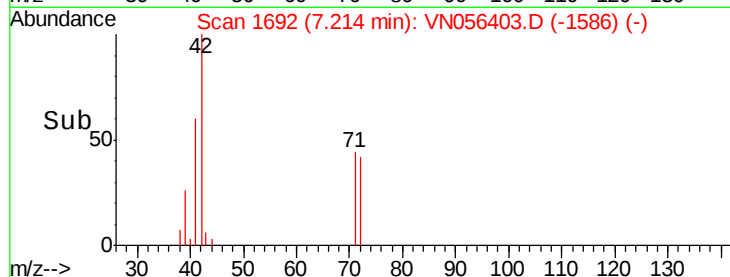
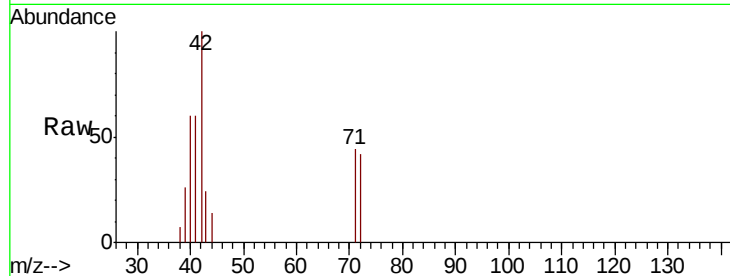




#41
Methacrylonitrile
Concen: 2.503 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.04 min
Lab File: VN056403.D
Acq: 20 Jun 2019 15:26

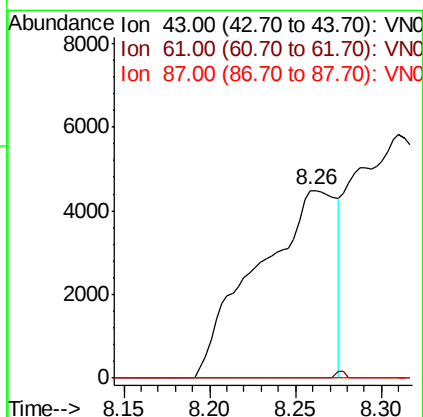
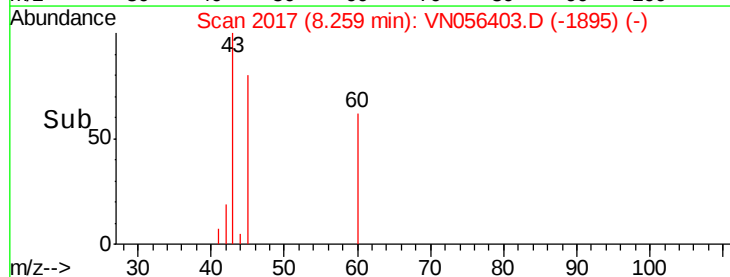
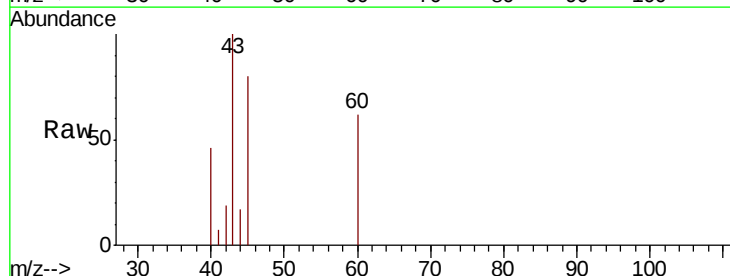
Instrument :
MSVOA_N
ClientSampleId :
390619766-VOA

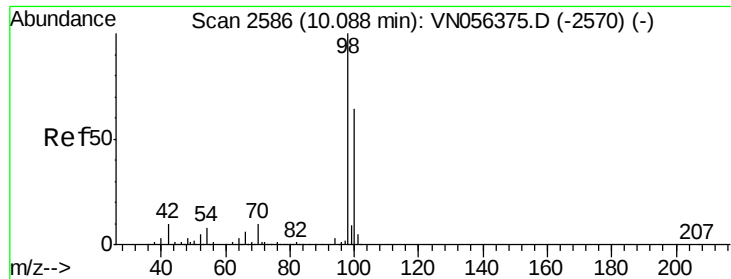
Tot Ion: 41 Resp: 6134
Ion Ratio Lower Upper
41 100
39 26.4 55.3 82.9#
67 0.0 79.2 118.8#
52 0.0 31.4 47.0#



#43
Isopropyl Acetate
Concen: 1.671 ug/l
RT: 8.26 min Scan# 2017
Delta R.T. 0.09 min
Lab File: VN056403.D
Acq: 20 Jun 2019 15:26

Tgt Ion: 43 Resp: 14297
Ion Ratio Lower Upper
43 100
61 0.0 22.0 33.0#
87 0.0 11.0 16.4#





#50

Toluene-d8

Concen: 50.506 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056403.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

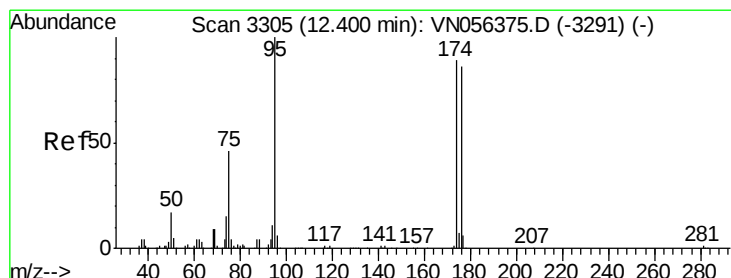
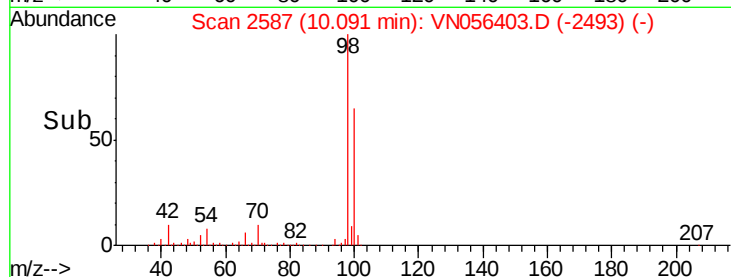
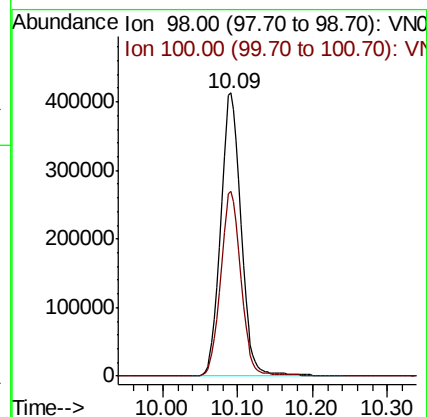
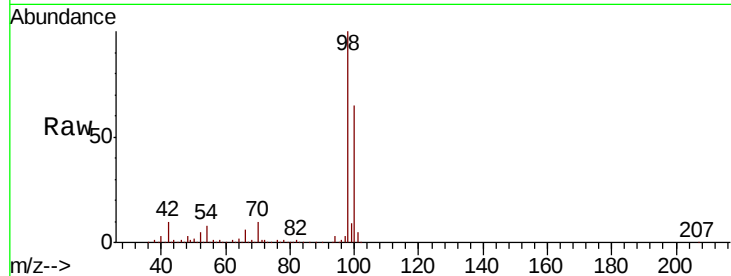
390619766-VOA

Tot Ion: 98 Resp: 786474

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 47.262 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056403.D

Acq: 20 Jun 2019 15:26

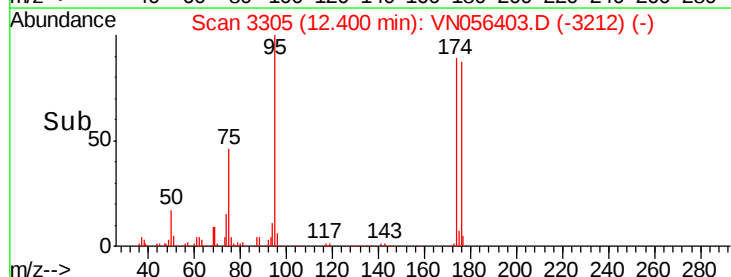
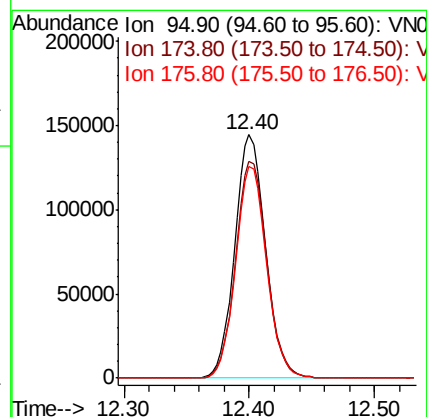
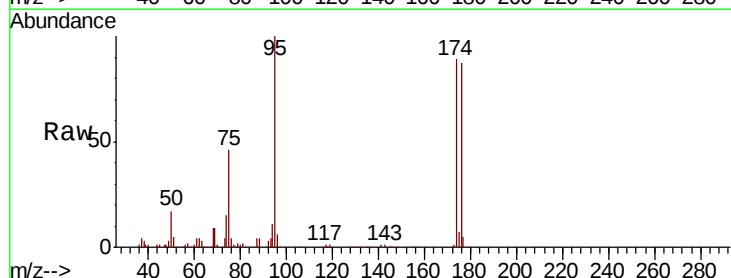
Tgt Ion: 95 Resp: 245336

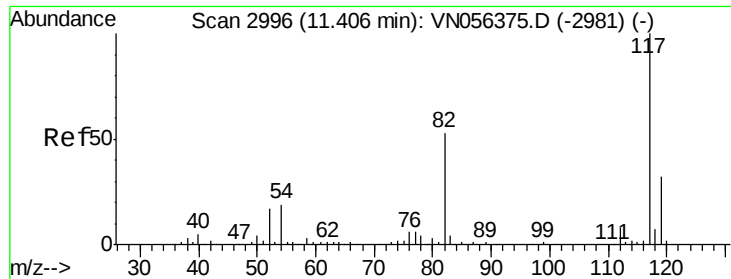
Ion Ratio Lower Upper

95 100

174 91.0 0.0 179.4

176 87.4 0.0 173.4

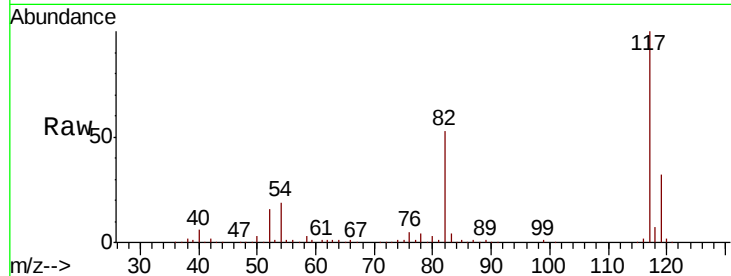




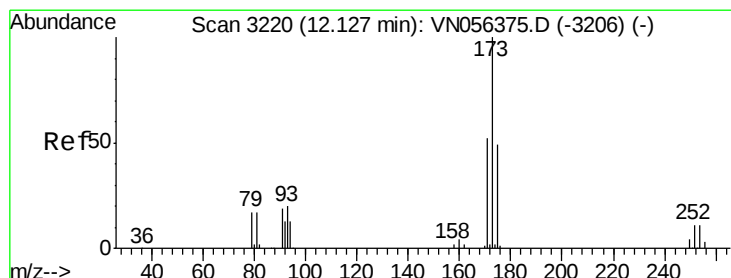
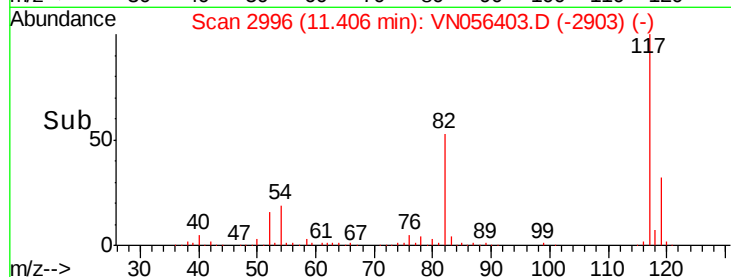
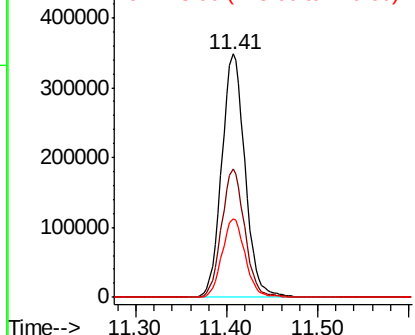
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

Instrument :
 MSVOA_N
 ClientSampleId :
 390619766-VOA

Tot Ion:117 Resp: 619151
 Ion Ratio Lower Upper
 117 100
 82 52.6 42.0 63.0
 119 32.3 25.3 37.9

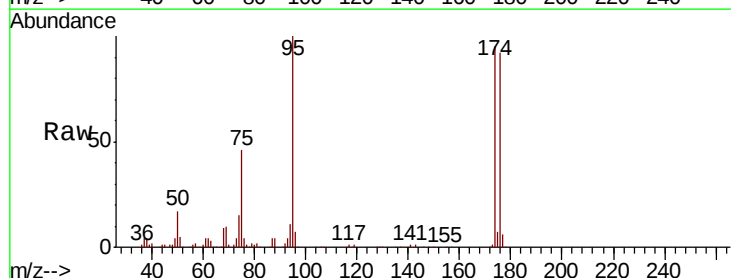


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

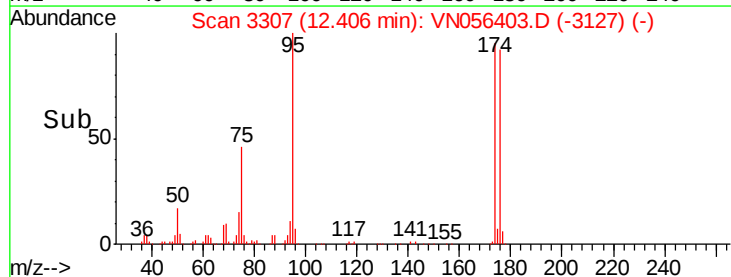
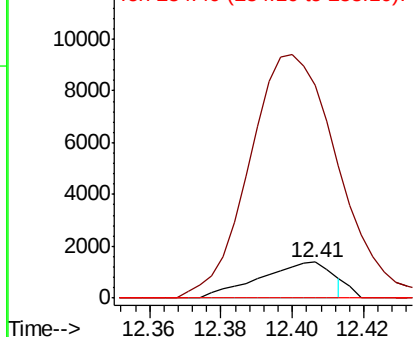


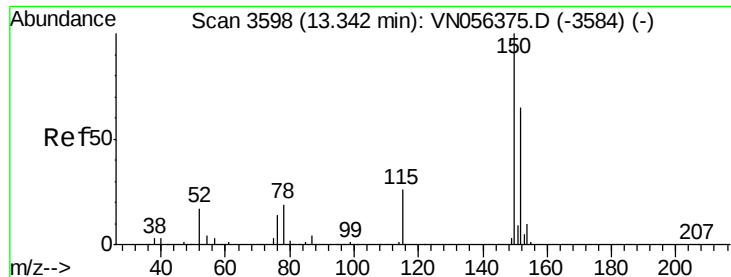
#71
 Bromoform
 Concen: 3.684 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.28 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

Tgt Ion:173 Resp: 1958
 Ion Ratio Lower Upper
 173 100
 175 726.8 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: VN056403.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

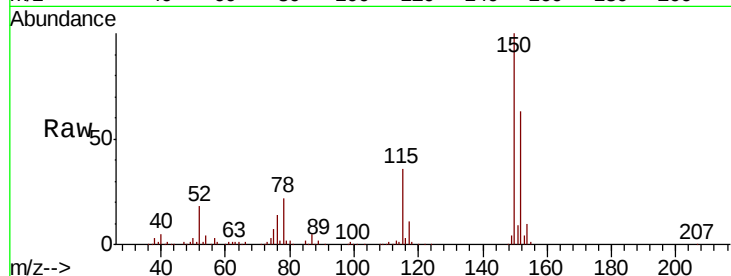
Tot Ion:152 Resp: 176592

Ion Ratio Lower Upper

152 100

115 56.0 28.1 84.4

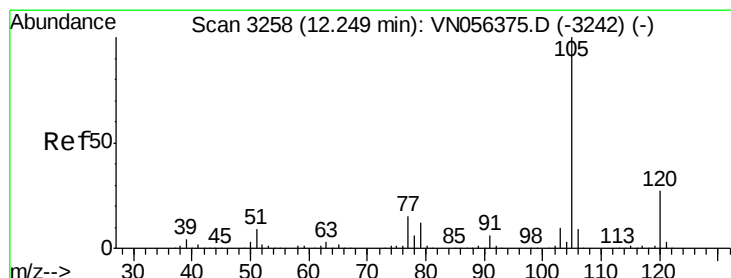
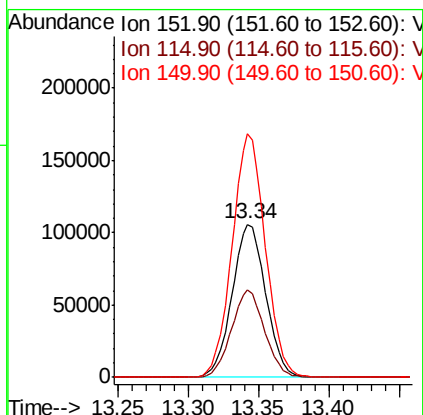
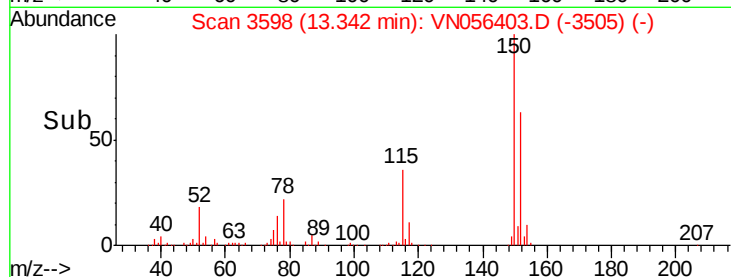
150 157.2 0.0 348.4



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: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN056403.D

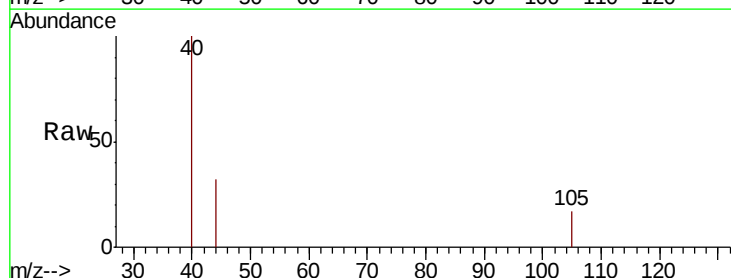
Acq: 20 Jun 2019 15:26

Tgt Ion:105 Resp: 372

Ion Ratio Lower Upper

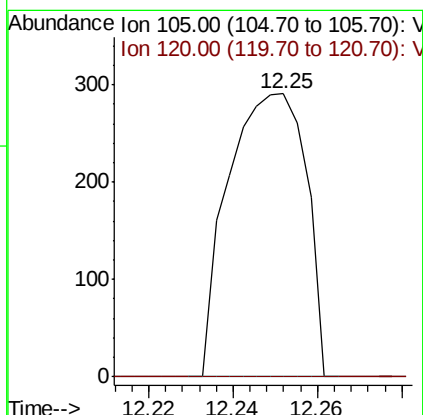
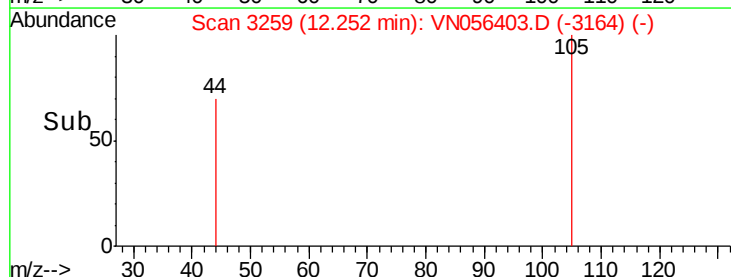
105 100

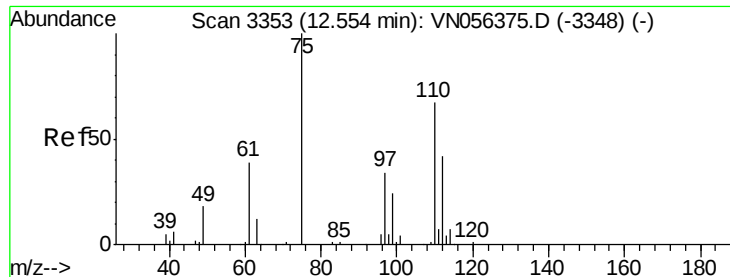
120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

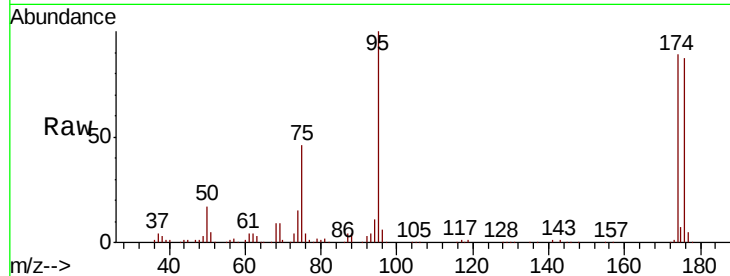




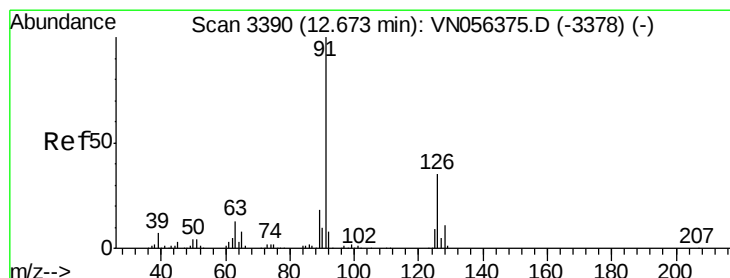
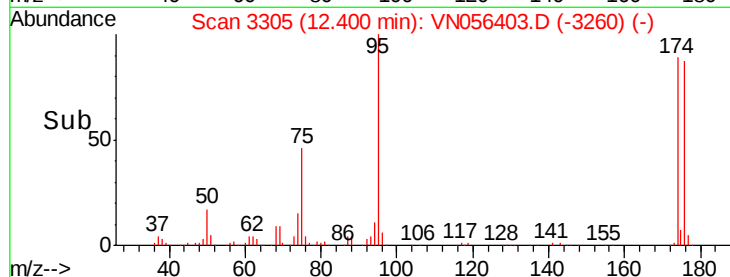
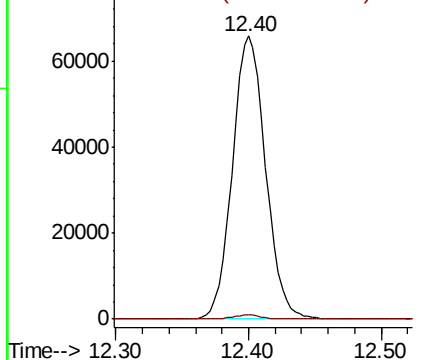
#76
 1,2,3-Trichloropropane
 Concen: 31.137 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

Instrument :
 MSVOA_N
 ClientSampleId :
 390619766-VOA

Tot Ion: 75 Resp: 114014
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#

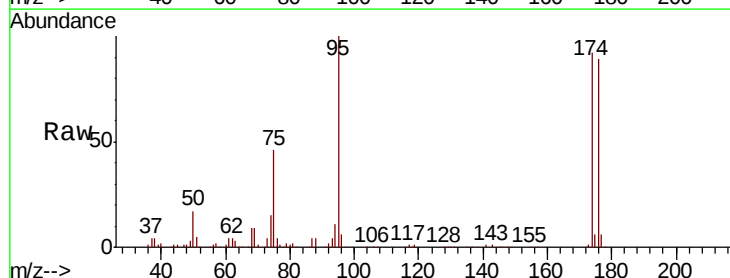


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 77.00 (76.70 to 77.70): VN0

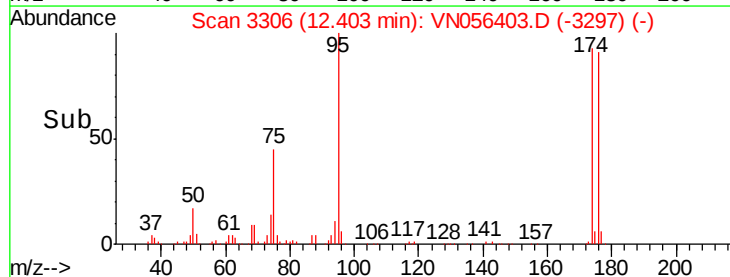
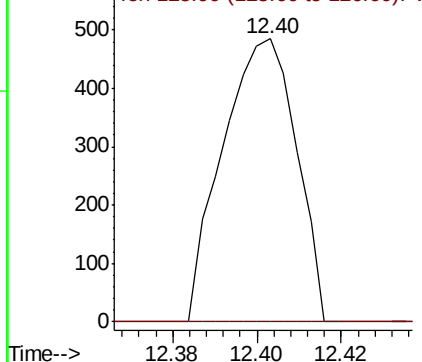


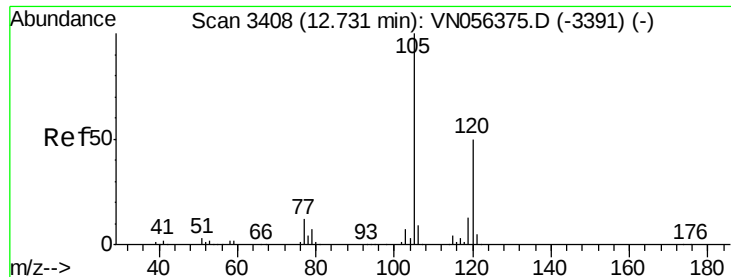
#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.27 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

Tgt Ion: 91 Resp: 586
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN0
 Ion 125.90 (125.60 to 126.60): V

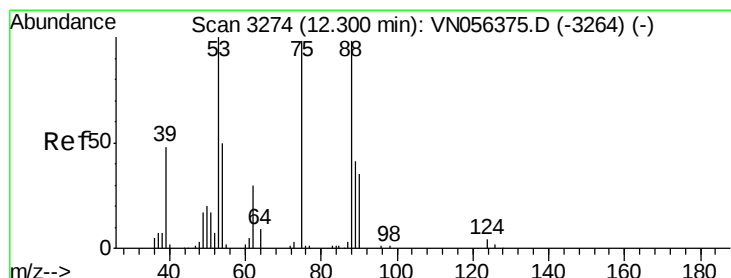
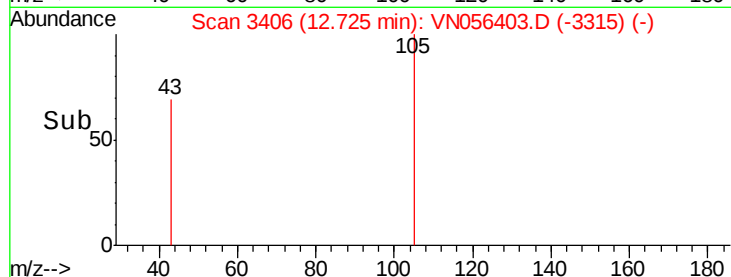
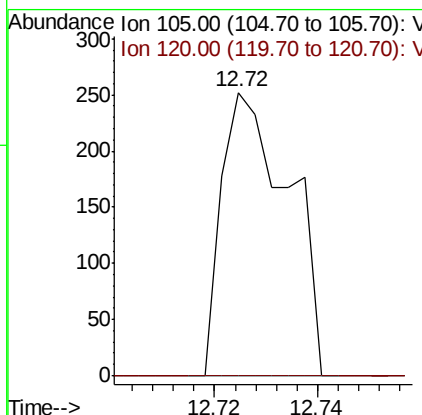
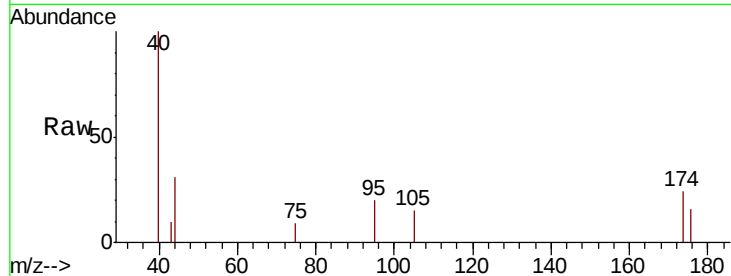




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.72 min Scan# 3406
 Delta R.T. -0.01 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

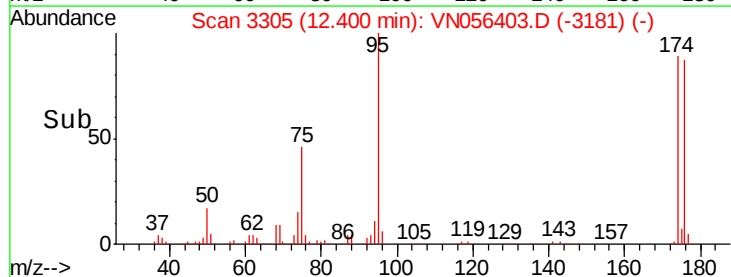
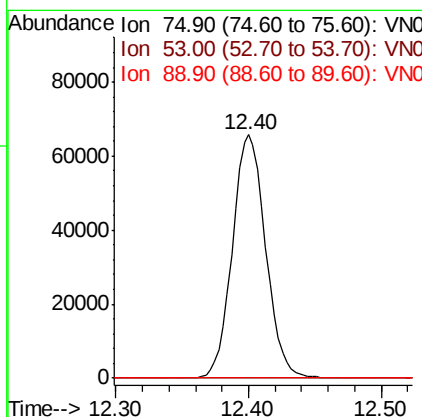
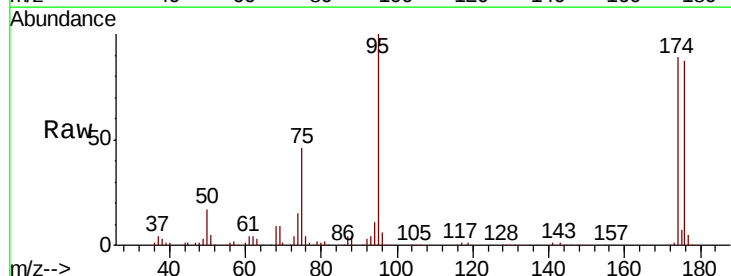
Instrument :
 MSVOA_N
 ClientSampleId :
 390619766-VOA

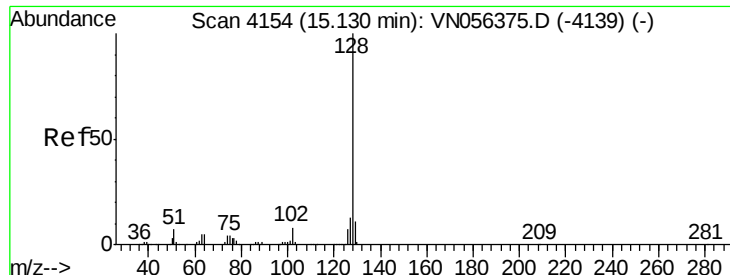
Tot Ion:105 Resp: 226
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.8 74.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 110.666 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056403.D
 Acq: 20 Jun 2019 15:26

Tgt Ion: 75 Resp: 114014
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.9 125.9#
 89 0.0 35.0 52.6#





#95

Naphthalene

Concen: 5.308 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056403.D

Acq: 20 Jun 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

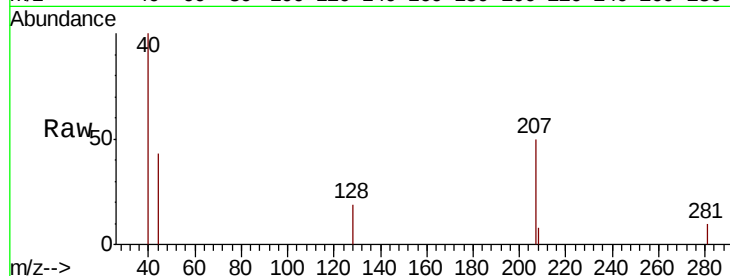
Tot Ion:128 Resp: 568

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

