

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062619\
 Data File : VN056503.D
 Acq On : 26 Jun 2019 14:01
 Operator : JC/SP
 Sample : K3539-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 27 07:38:46 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	356971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	611944	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	582800	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153366	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	205383	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
35) Dibromofluoromethane	7.59	113	178419	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	10.09	98	750835	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.40	95	226559	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	

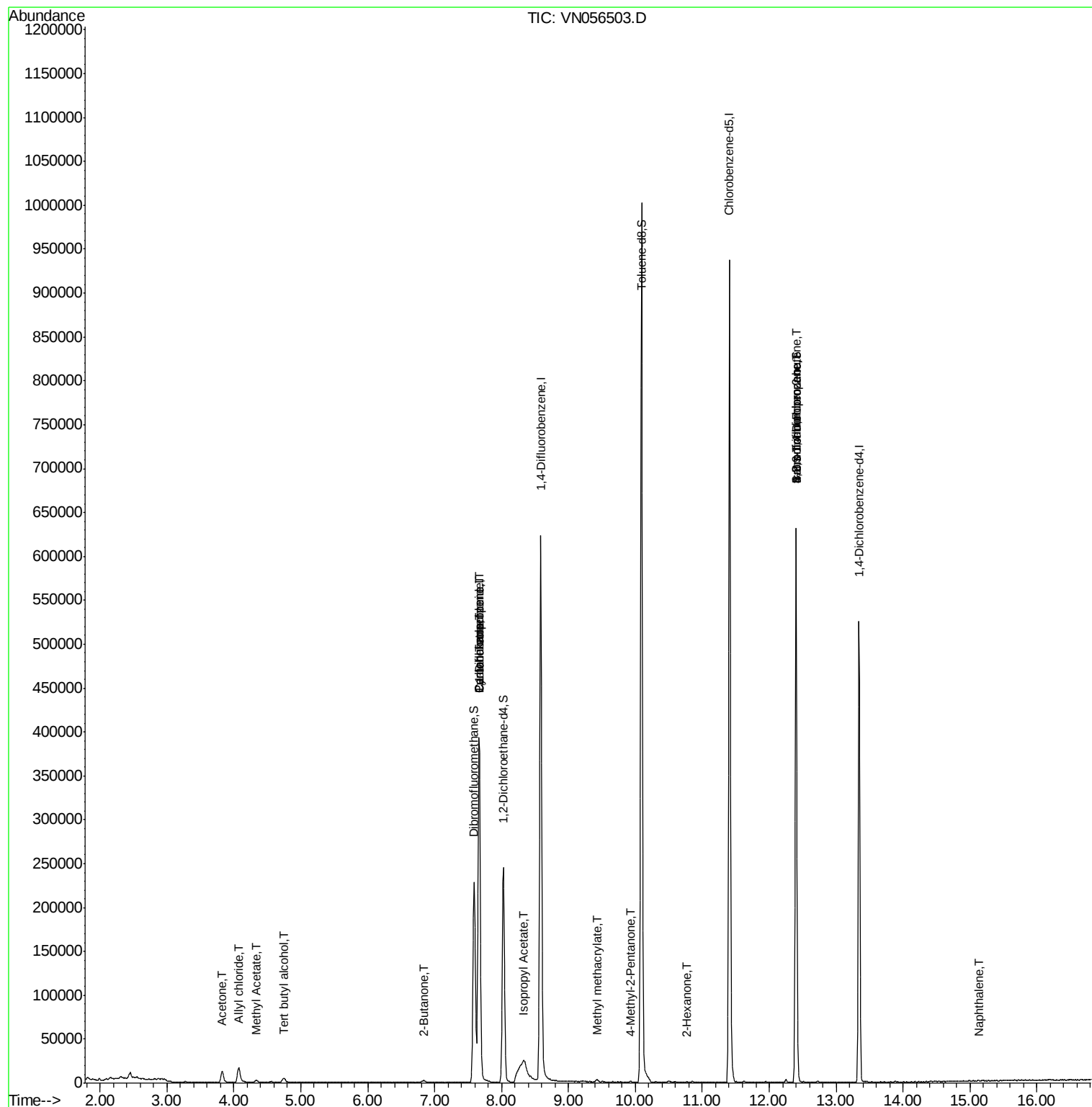
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	4934	7.405	ug/l #	74
14) Allyl chloride	4.08	41	3009	0.573	ug/l #	66
16) Acetone	3.82	43	8658	4.368	ug/l	94
18) Methyl Acetate	4.33	43	5686	0.607	ug/l #	69
20) Methylene Chloride	4.55	84	730	Below Cal	#	62
25) 2-Butanone	6.85	43	614	0.234	ug/l #	49
31) Cyclohexane	7.66	56	5653	0.925	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22685	4.212	ug/l #	49
38) Carbon Tetrachloride	7.66	117	30473	6.470	ug/l #	14
43) Isopropyl Acetate	8.32	43	72944	8.937	ug/l #	54
48) Methyl methacrylate	9.42	41	1360	0.333	ug/l #	14
51) 4-Methyl-2-Pentanone	9.93	43	1120	0.213	ug/l #	35
59) 2-Hexanone	10.77	43	863	0.223	ug/l #	24
71) Bromoform	12.40	173	1809	3.674	ug/l #	1
73) Isopropylbenzene	12.25	105	2669	Below Cal		100
76) 1,2,3-Trichloropropane	12.40	75	103578	32.571	ug/l #	100
79) 2-Chlorotoluene	12.60	91	71	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	187	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	103578	115.762	ug/l #	8
95) Naphthalene	15.14	128	30	5.249	ug/l #	70

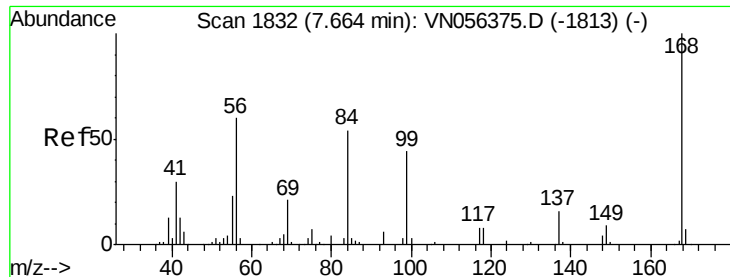
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

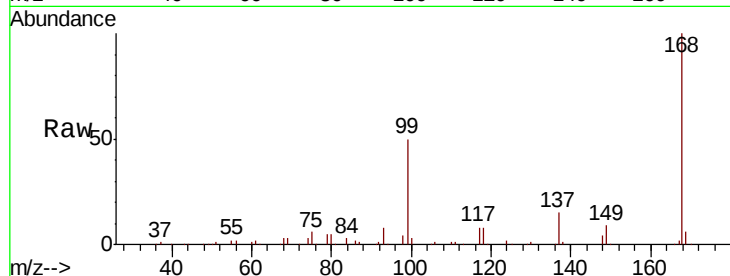
ClientSampleId :

Tot Ion:168 Resp: 356971

Ion Ratio Lower Upper

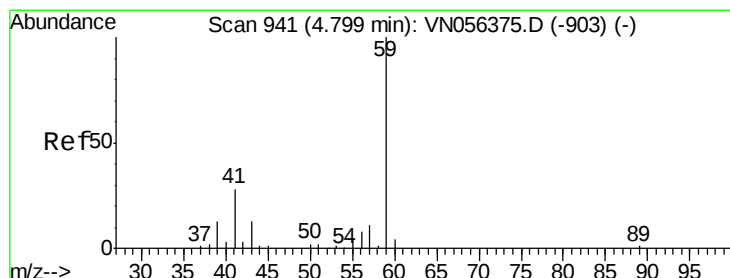
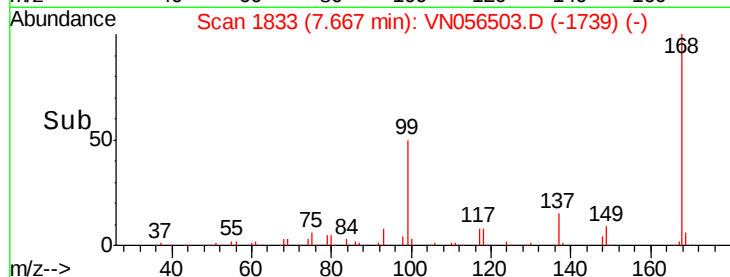
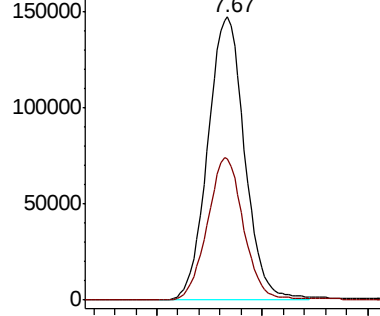
168 100

99 49.9 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 7.405 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056503.D

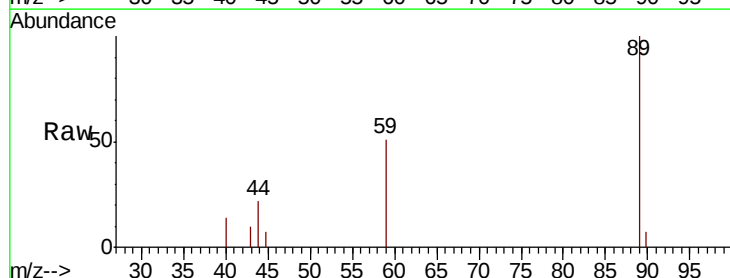
Acq: 26 Jun 2019 14:01

Tgt Ion: 59 Resp: 4934

Ion Ratio Lower Upper

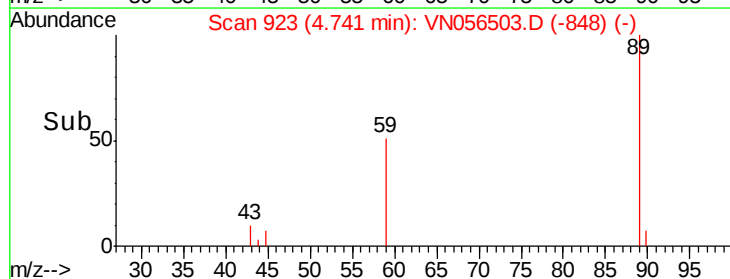
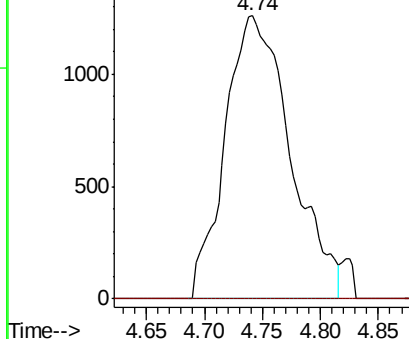
59 100

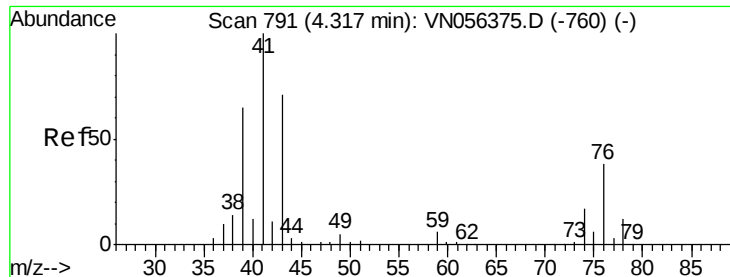
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#14

Allvl chloride

Concen: 0.573 ug/l

RT: 4.08 min Scan# 716

Delta R.T. -0.24 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

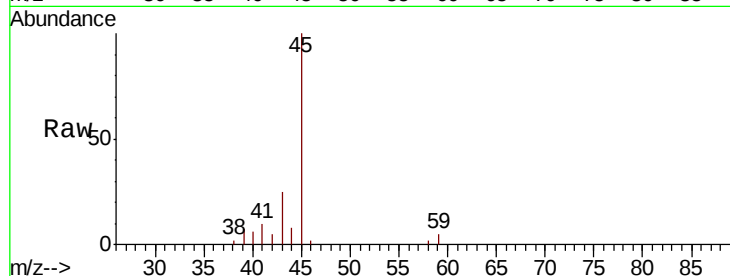
Tot Ion: 41 Resp: 3009

Ion Ratio Lower Upper

41 100

39 76.0 48.6 73.0#

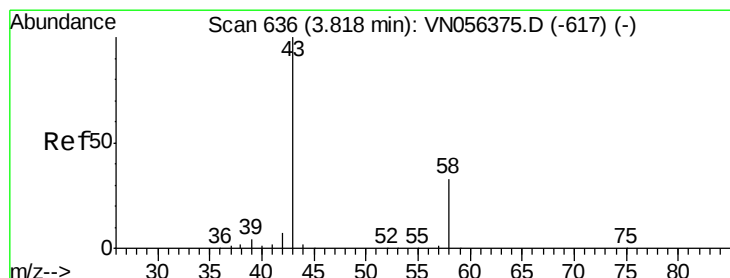
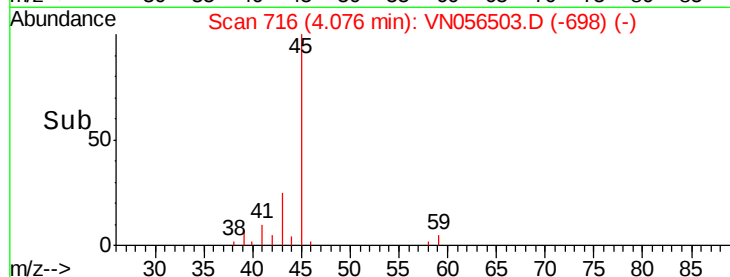
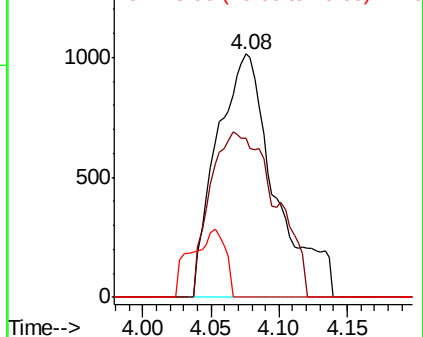
76 0.0 26.6 40.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 4.368 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056503.D

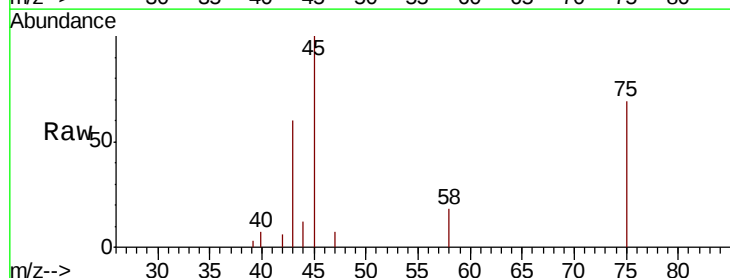
Acq: 26 Jun 2019 14:01

Tgt Ion: 43 Resp: 8658

Ion Ratio Lower Upper

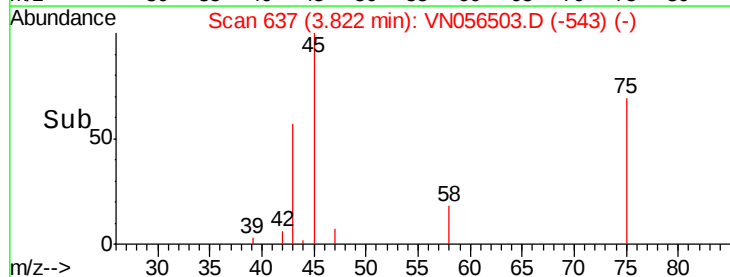
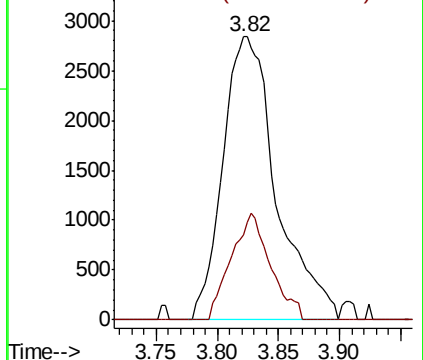
43 100

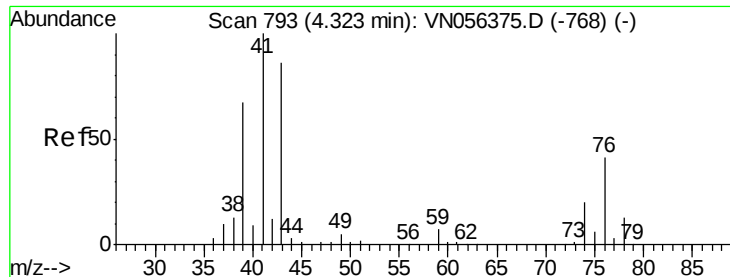
58 29.8 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

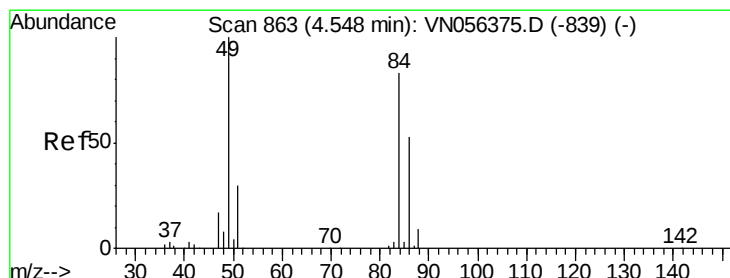
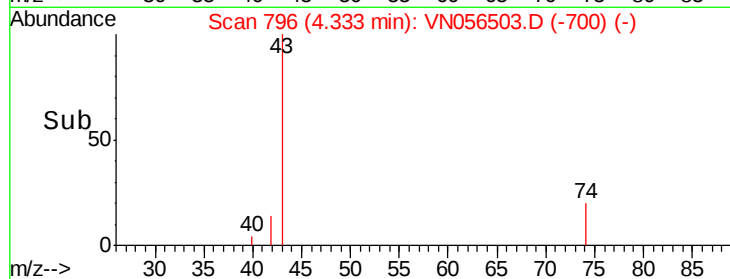
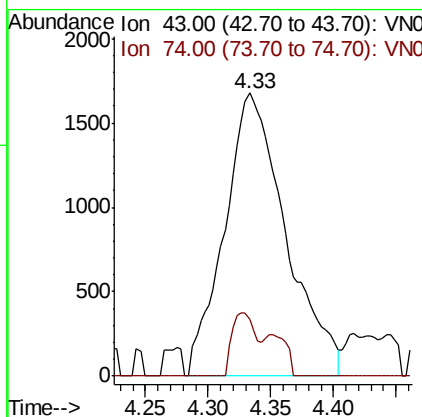
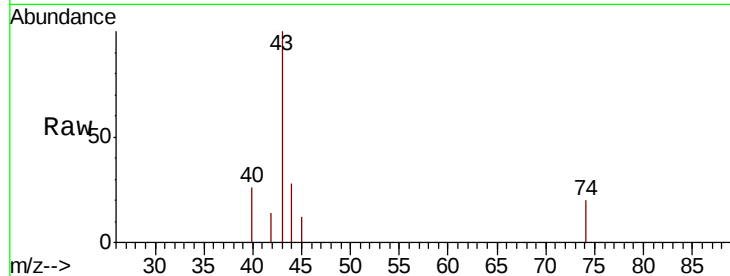




#18
Methyl Acetate
Concen: 0.607 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056503.D
Acq: 26 Jun 2019 14:01

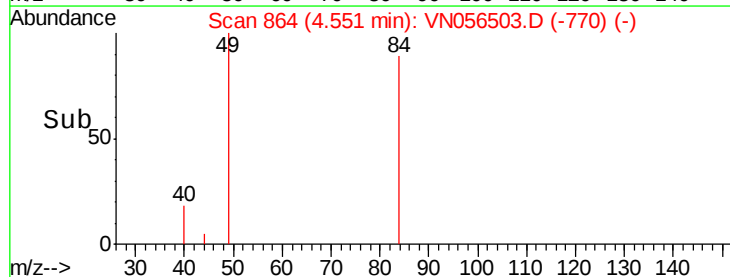
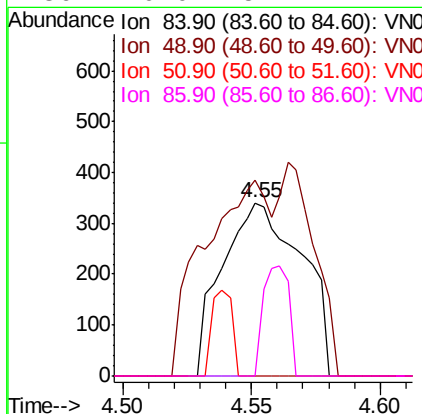
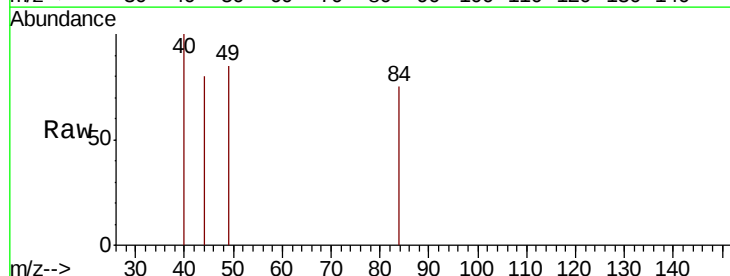
Instrument :
MSVOA_N
ClientSampleId :

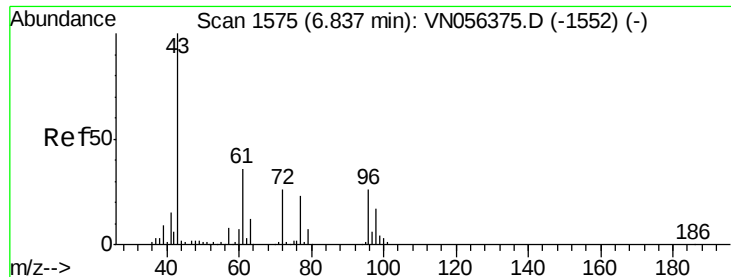
Tot Ion: 43 Resp: 5686
Ion Ratio Lower Upper
43 100
74 8.8 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056503.D
Acq: 26 Jun 2019 14:01

Tgt Ion: 84 Resp: 730
Ion Ratio Lower Upper
84 100
49 112.9 96.4 144.6
51 0.0 28.6 43.0#
86 0.0 51.4 77.2#





#25

2-Butanone

Concen: 0.234 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

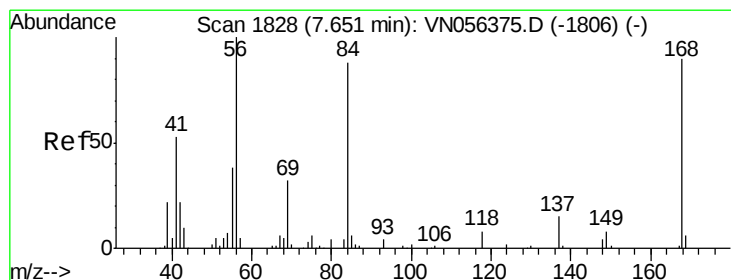
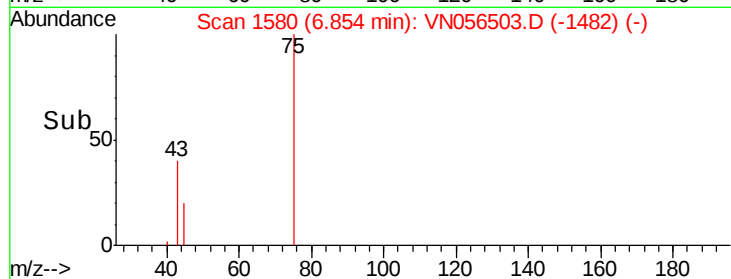
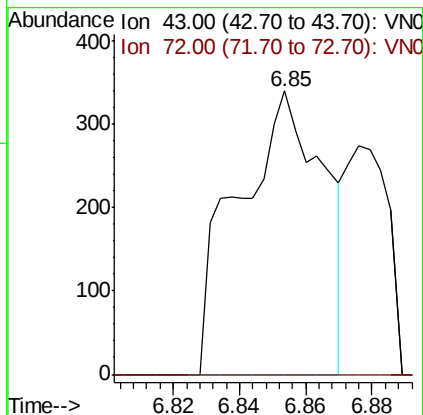
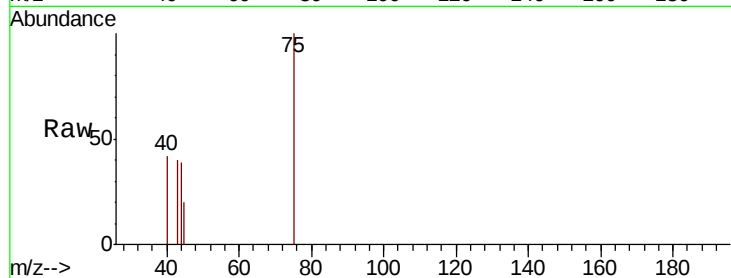
ClientSampleId :

Tot Ion: 43 Resp: 614

Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#



#31

Cyclohexane

Concen: 0.925 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

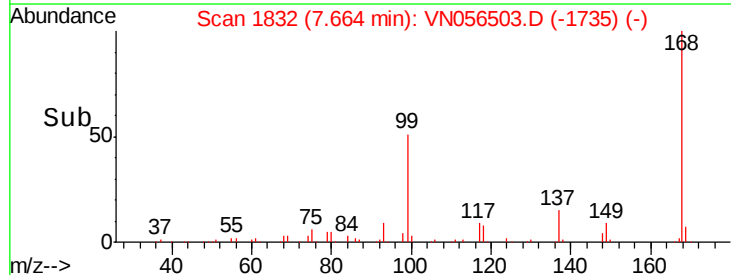
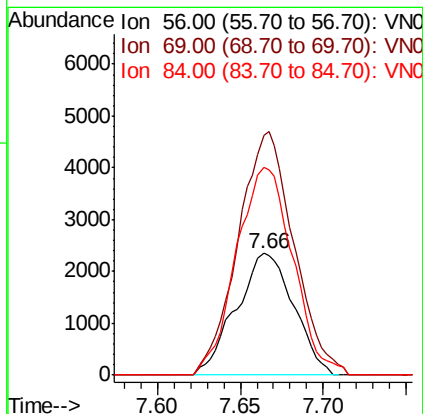
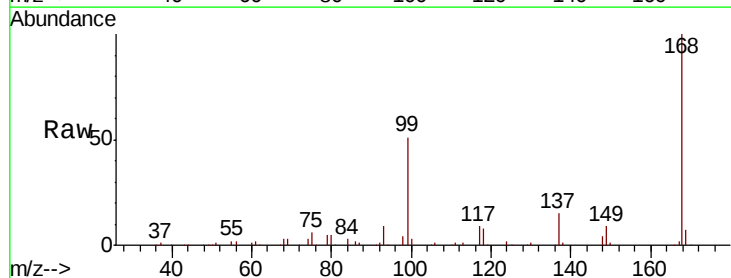
Tgt Ion: 56 Resp: 5653

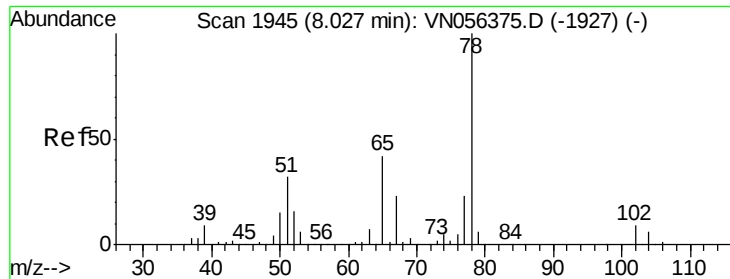
Ion Ratio Lower Upper

56 100

69 196.5 25.8 38.6#

84 170.9 69.4 104.0#

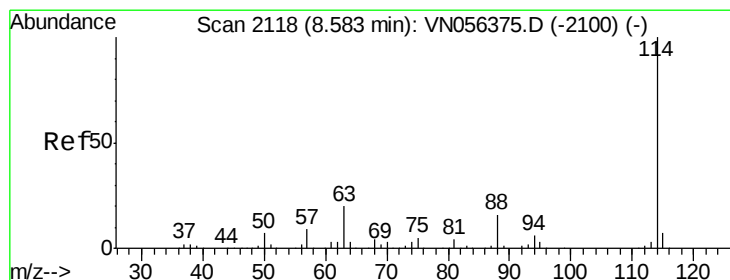
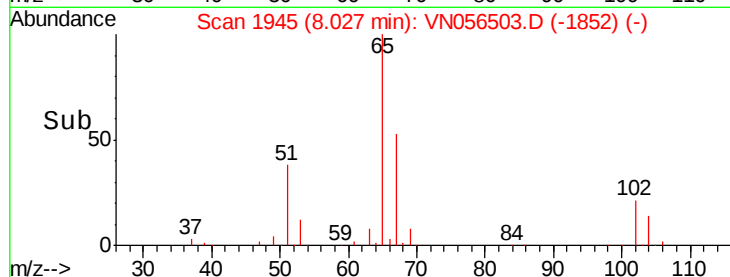
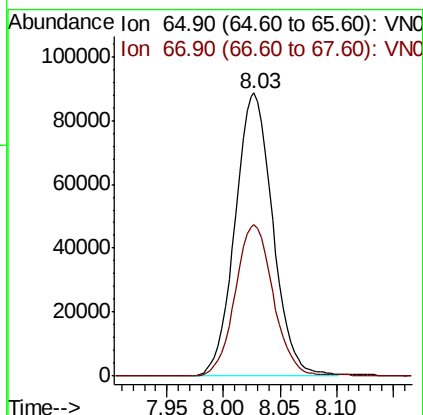
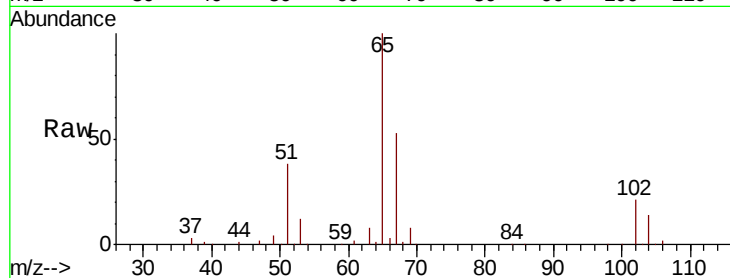




#33
 1,2-Dichloroethane-d4
 Concen: 51.912 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056503.D
 Acq: 26 Jun 2019 14:01

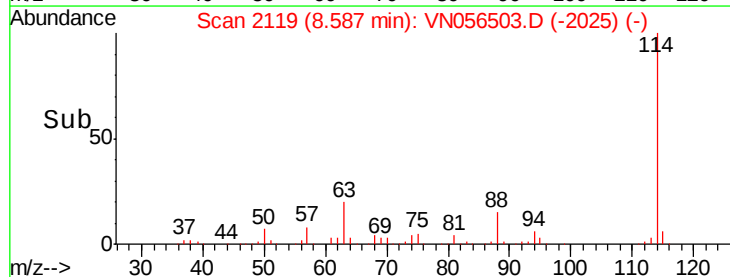
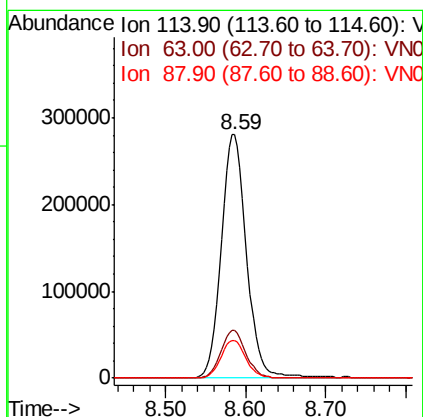
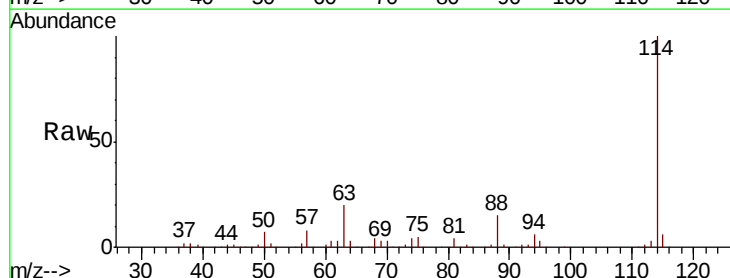
Instrument :
 MSVOA_N
 ClientSampleId :

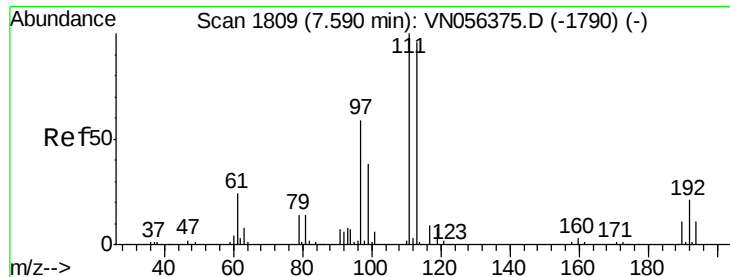
Tot Ion: 65 Resp: 205383
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056503.D
 Acq: 26 Jun 2019 14:01

Tgt Ion: 114 Resp: 611944
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.2
 88 15.3 0.0 31.4

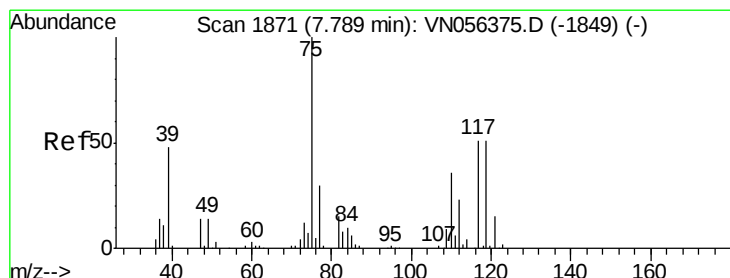
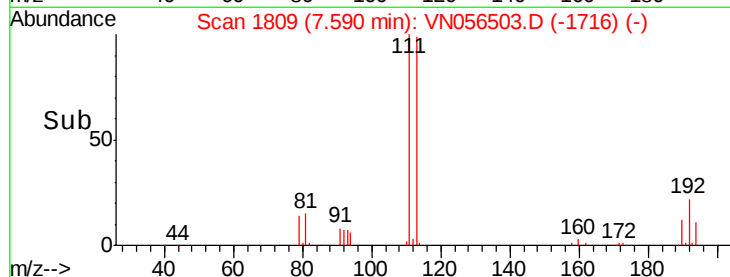
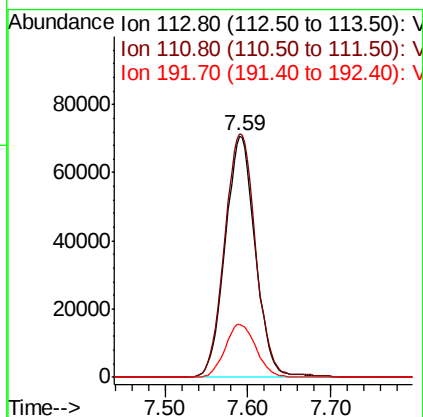
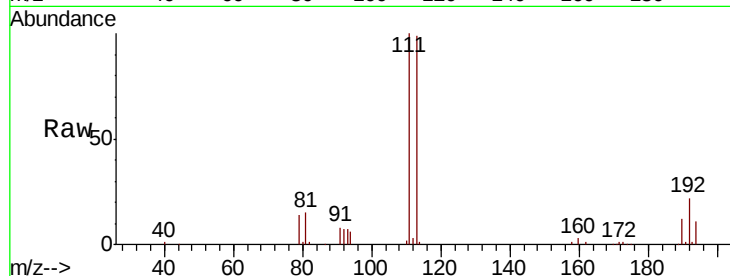




#35
 Dibromofluoromethane
 Concen: 46.737 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056503.D
 Acq: 26 Jun 2019 14:01

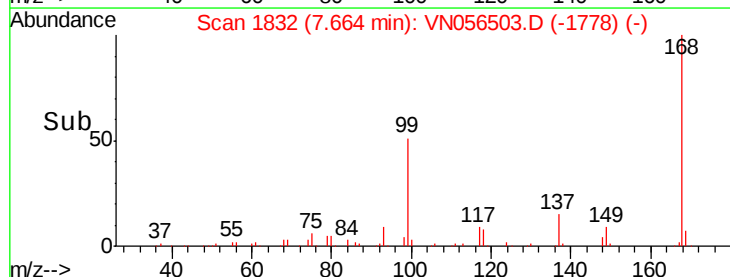
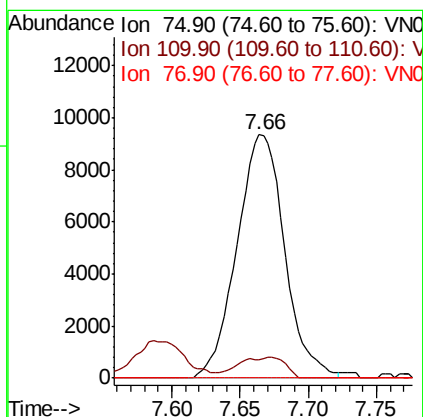
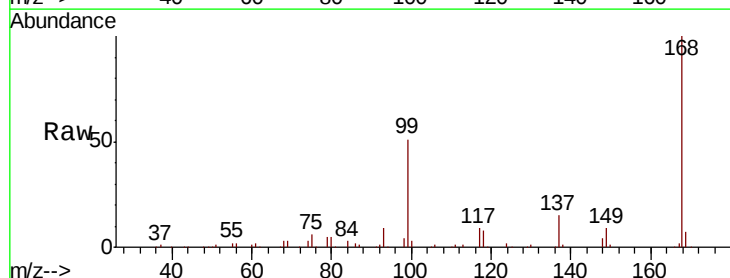
Instrument :
 MSVOA_N
 ClientSampleId :

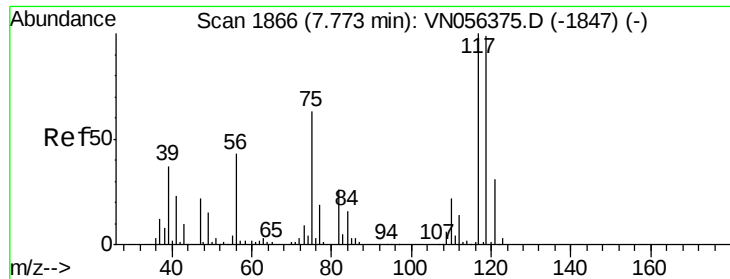
Tot Ion:113 Resp: 178419
 Ion Ratio Lower Upper
 113 100
 111 104.3 82.9 124.3
 192 22.5 17.7 26.5



#36
 1,1-Dichloropropene
 Concen: 4.212 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056503.D
 Acq: 26 Jun 2019 14:01

Tgt Ion: 75 Resp: 22685
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.3#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.470 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

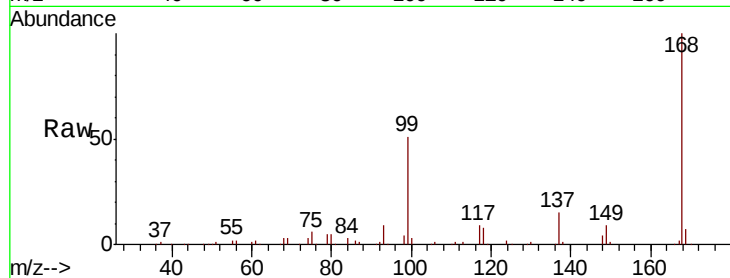
Tot Ion:117 Resp: 30473

Ion Ratio Lower Upper

117 100

119 4.8 79.1 118.7#

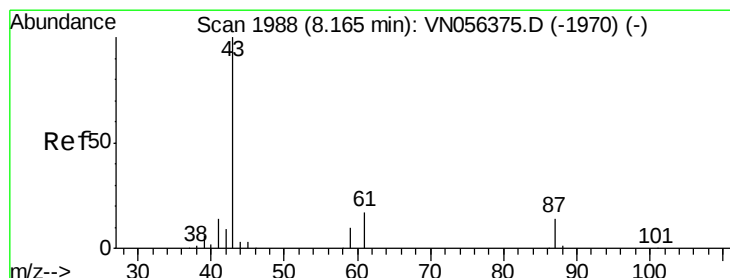
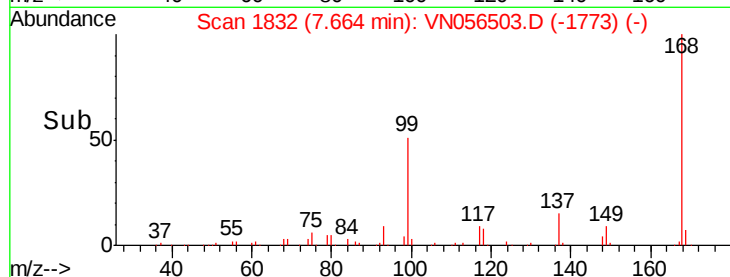
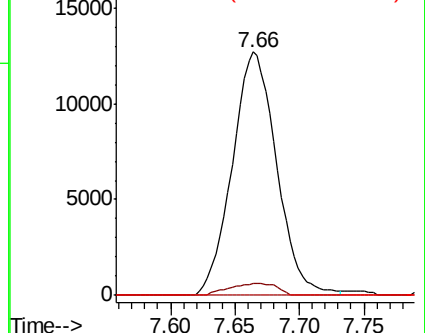
121 0.0 24.8 37.2#



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: 8.937 ug/l

RT: 8.32 min Scan# 2037

Delta R.T. 0.16 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

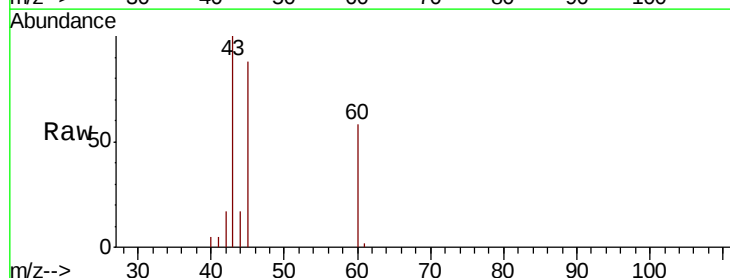
Tgt Ion: 43 Resp: 72944

Ion Ratio Lower Upper

43 100

61 0.2 22.0 33.0#

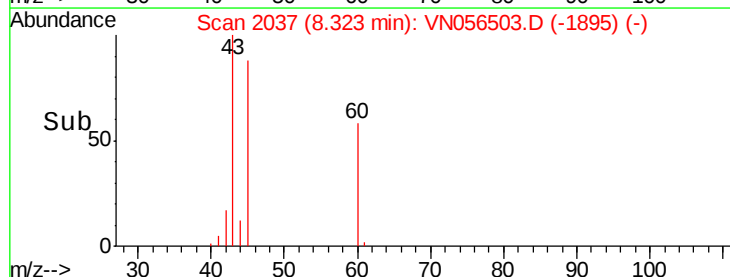
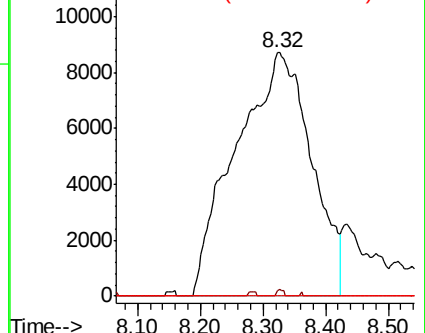
87 0.0 11.0 16.4#

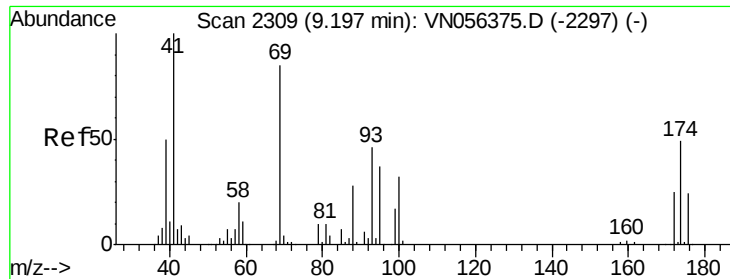


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

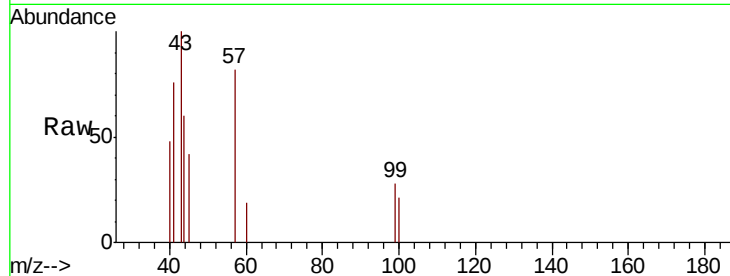




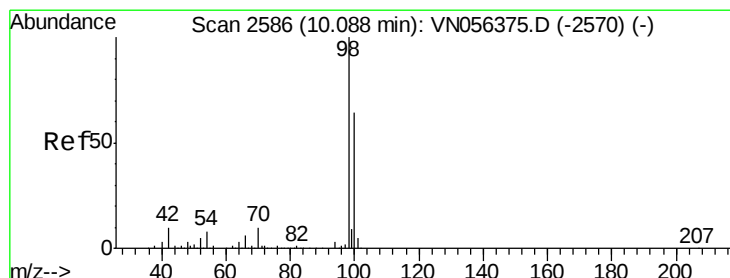
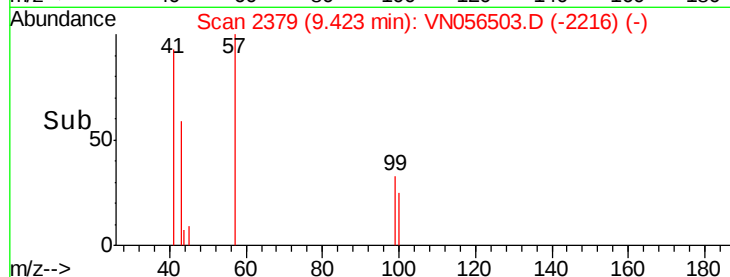
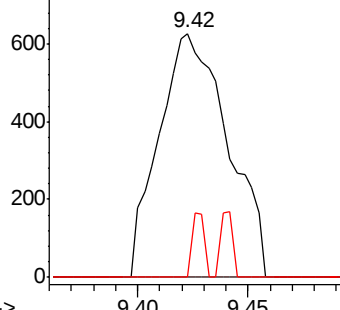
#48
Methvl methacrylate
Concen: 0.333 ug/l
RT: 9.42 min Scan# 2379
Delta R.T. 0.23 min
Lab File: VN056503.D
Acq: 26 Jun 2019 14:01

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 1360
Ion Ratio Lower Upper
41 100
69 0.0 72.6 109.0#
39 4.6 42.6 63.8#

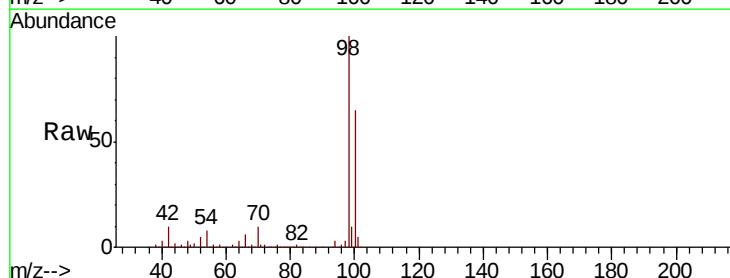


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

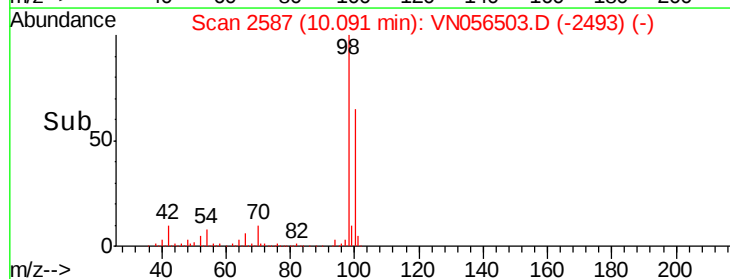
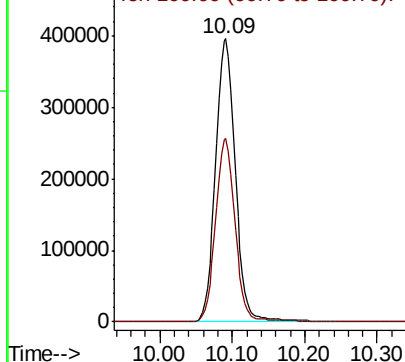


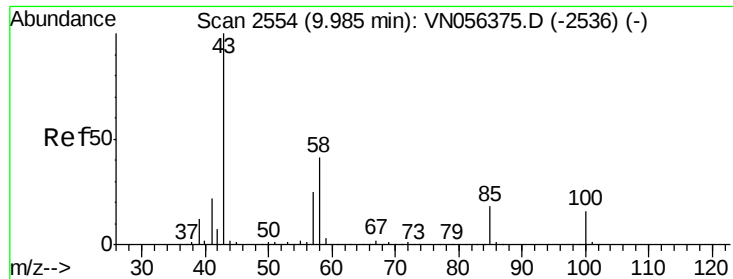
#50
Toluene-d8
Concen: 50.547 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056503.D
Acq: 26 Jun 2019 14:01

Tgt Ion: 98 Resp: 750835
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.213 ug/l

RT: 9.93 min Scan# 2537

Delta R.T. -0.05 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

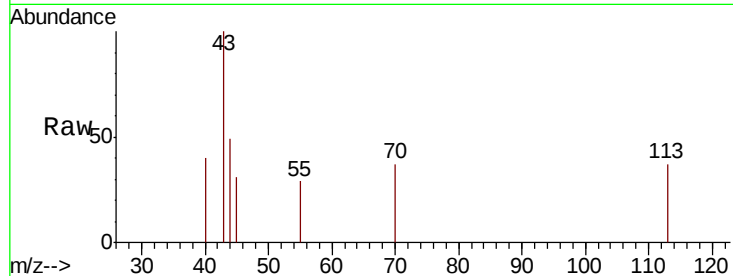
ClientSampled :

Tot Ion: 43 Resp: 1120

Ion Ratio Lower Upper

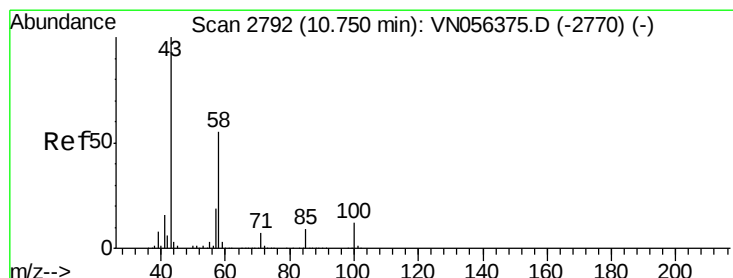
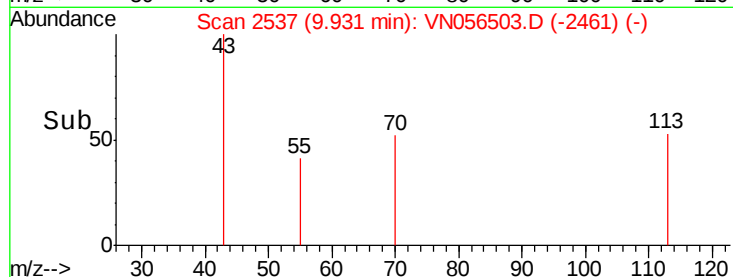
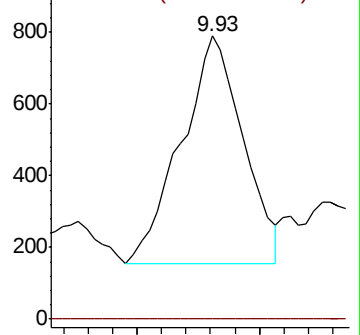
43 100

58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 0.223 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN056503.D

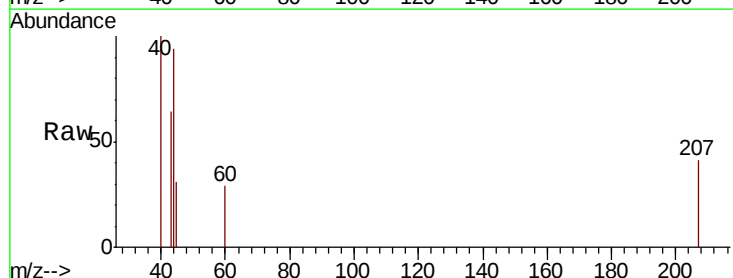
Acq: 26 Jun 2019 14:01

Tgt Ion: 43 Resp: 863

Ion Ratio Lower Upper

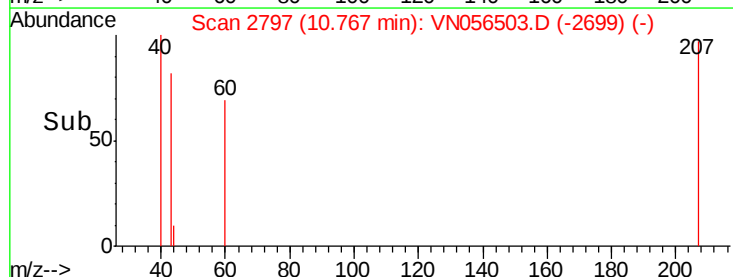
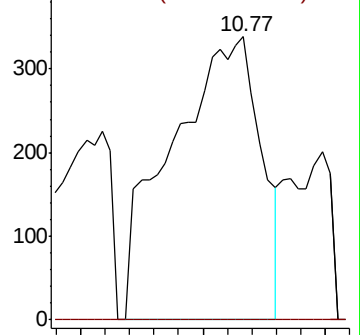
43 100

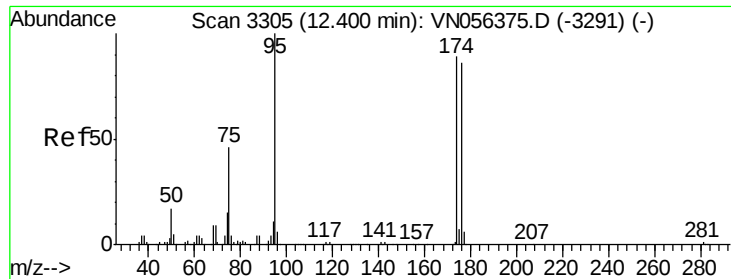
58 0.0 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.753 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

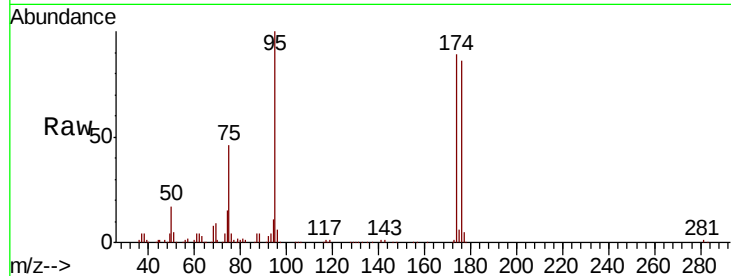
Tot Ion: 95 Resp: 226559

Ion Ratio Lower Upper

95 100

174 90.1 0.0 179.4

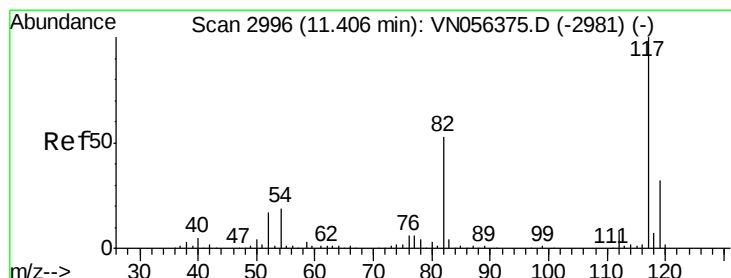
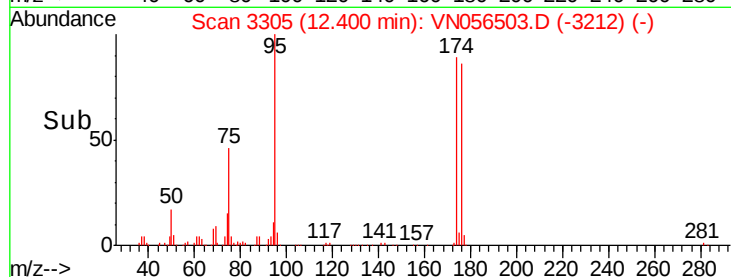
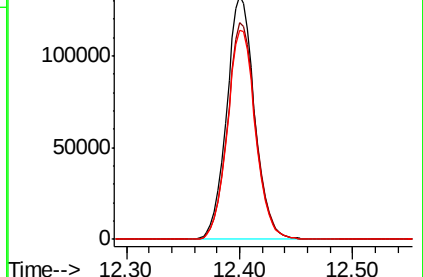
176 86.9 0.0 173.4



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: VN056503.D

Acq: 26 Jun 2019 14:01

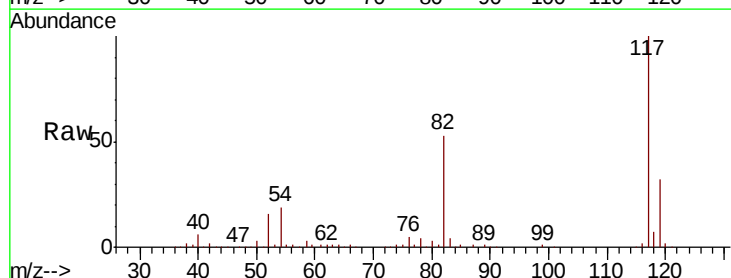
Tgt Ion: 117 Resp: 582800

Ion Ratio Lower Upper

117 100

82 53.4 42.0 63.0

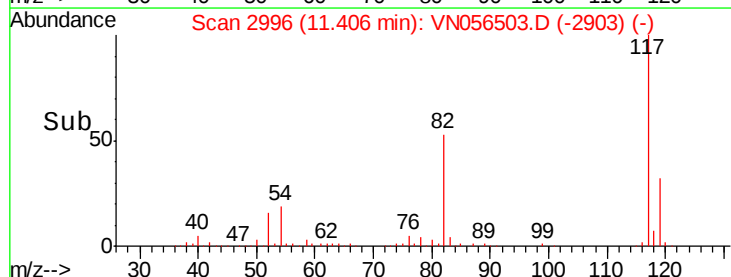
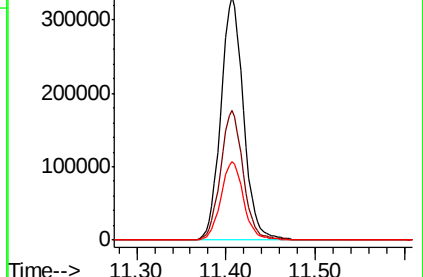
119 32.4 25.3 37.9

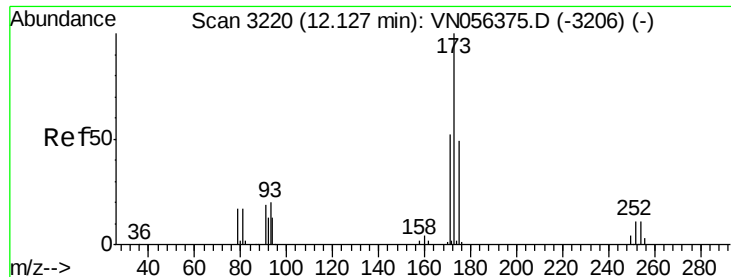


Abundance Ion 116.90 (116.60 to 117.60): VN056375.D (-2981) (-)

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: 3.674 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

ClientSampled :

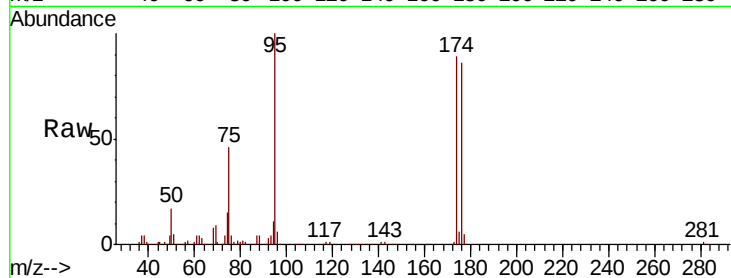
Tot Ion:173 Resp: 1809

Ion Ratio Lower Upper

173 100

175 681.6 24.4 73.4#

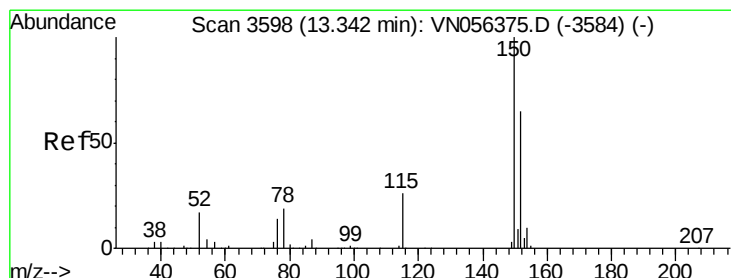
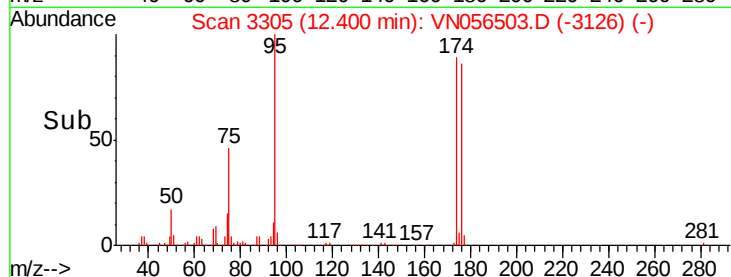
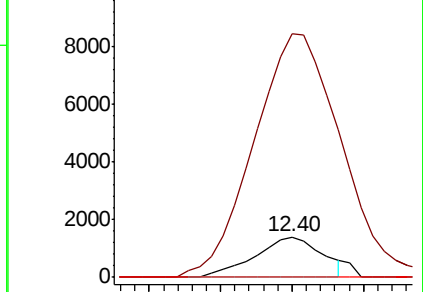
254 0.0 0.0 0.0



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: VN056503.D

Acq: 26 Jun 2019 14:01

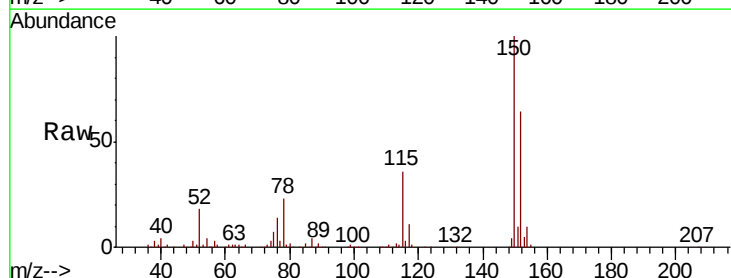
Tgt Ion:152 Resp: 153366

Ion Ratio Lower Upper

152 100

115 56.0 28.1 84.4

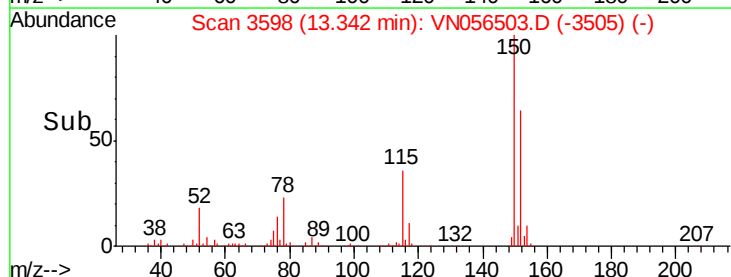
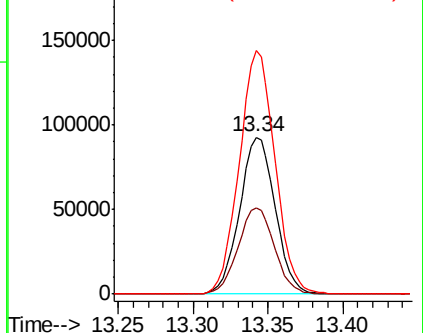
150 155.8 0.0 348.4

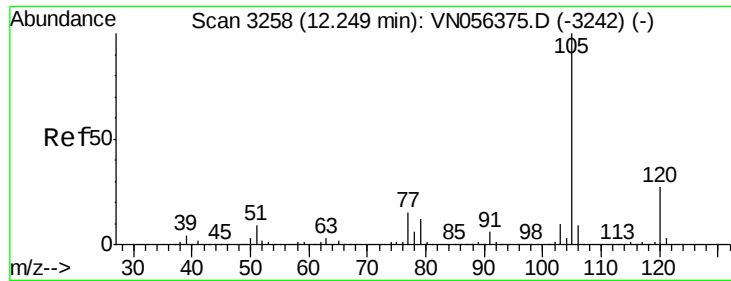


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3258

Delta R.T. 0.00 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

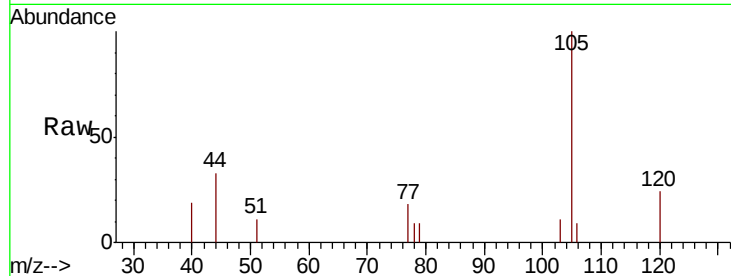
ClientSampleId :

Tot Ion:105 Resp: 2669

Ion Ratio Lower Upper

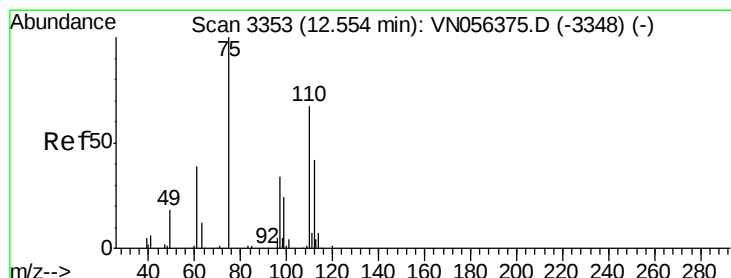
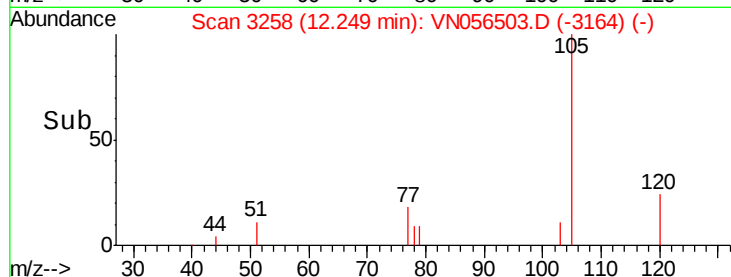
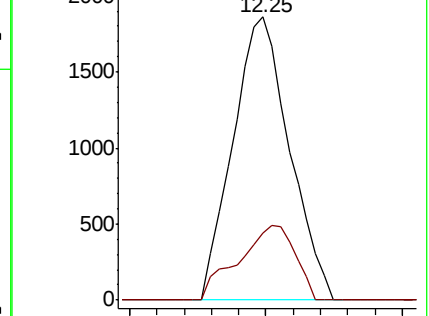
105 100

120 26.6 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: 32.571 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056503.D

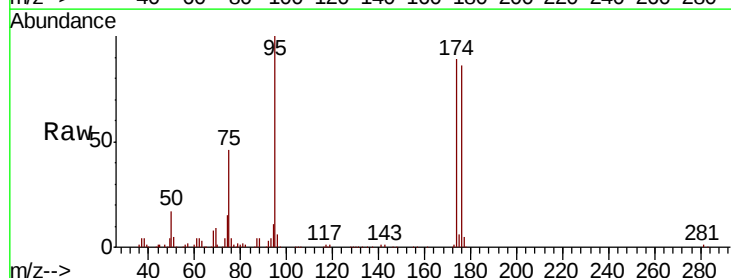
Acq: 26 Jun 2019 14:01

Tgt Ion: 75 Resp: 103578

Ion Ratio Lower Upper

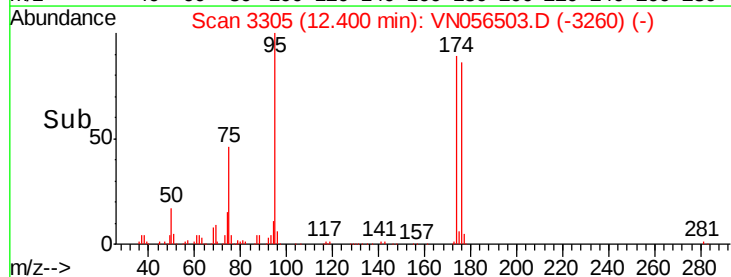
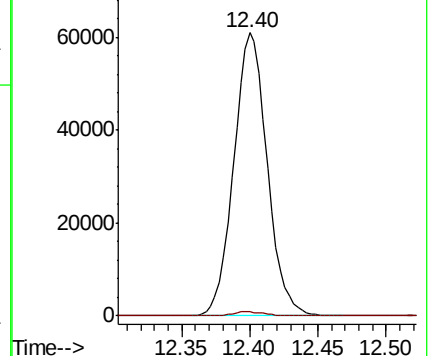
75 100

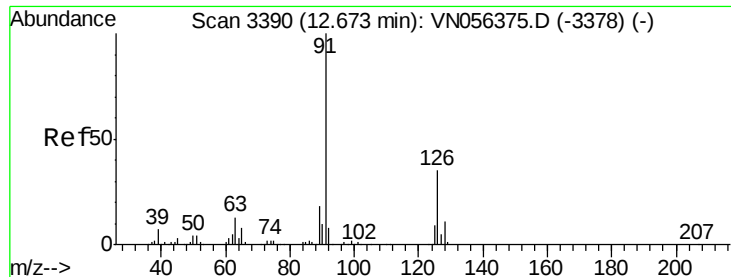
77 1.3 0.0 0.0#



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: 12.60 min Scan# 3366

Delta R.T. -0.08 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

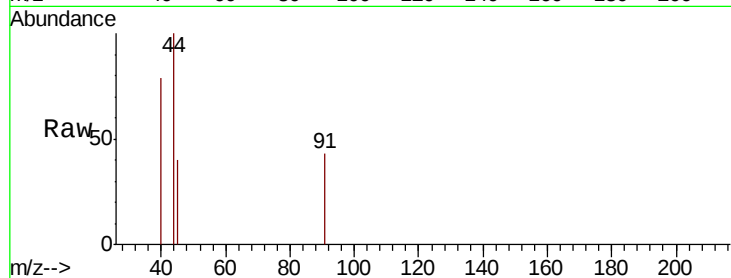
ClientSampled :

Tot Ion: 91 Resp: 71

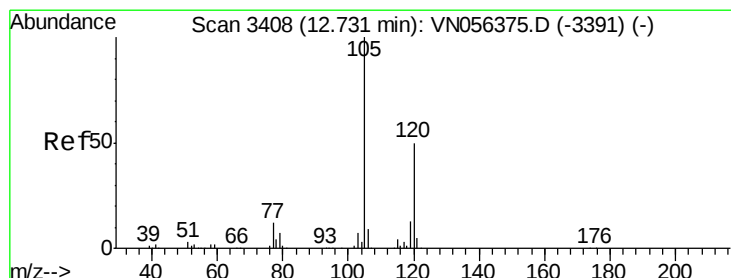
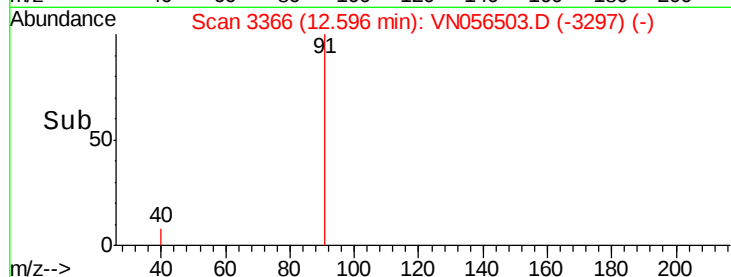
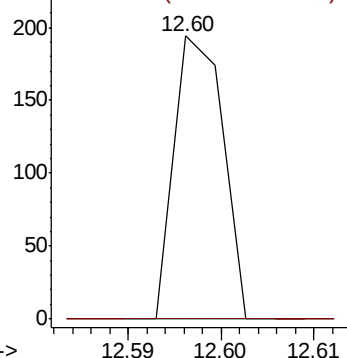
Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN056503.D

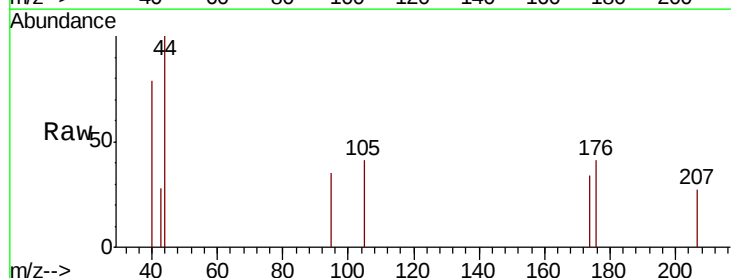
Acq: 26 Jun 2019 14:01

Tgt Ion: 105 Resp: 187

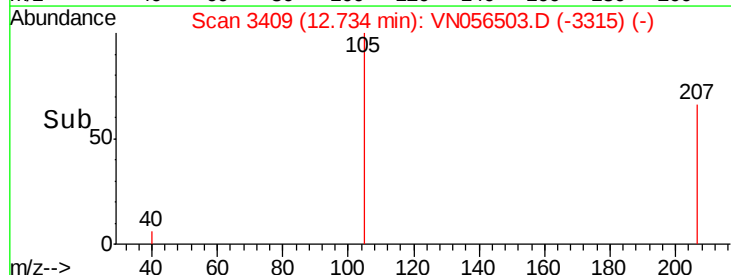
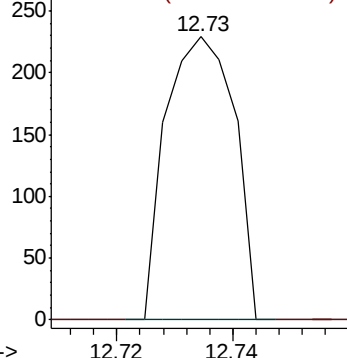
Ion Ratio Lower Upper

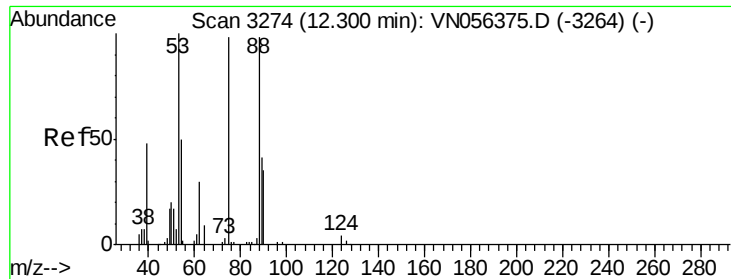
105 100

120 0.0 24.8 74.4#



Abundance Ion 105.00 (104.70 to 105.70): VN056375.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 115.762 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

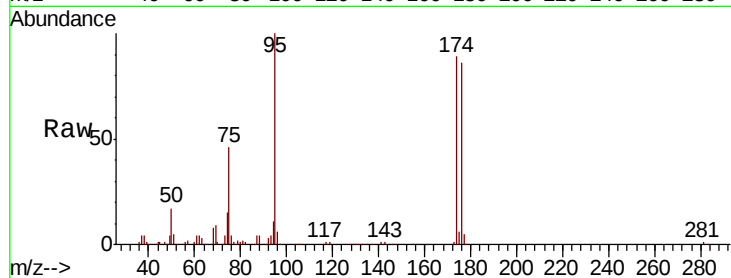
Tot Ion: 75 Resp: 103578

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

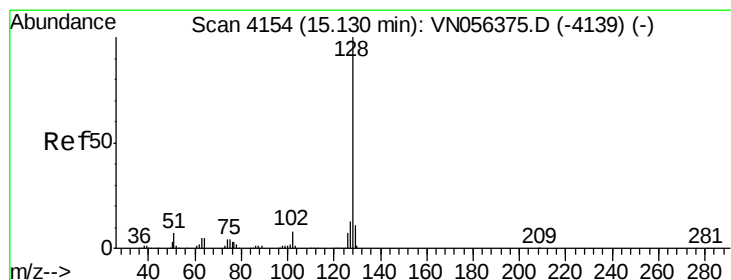
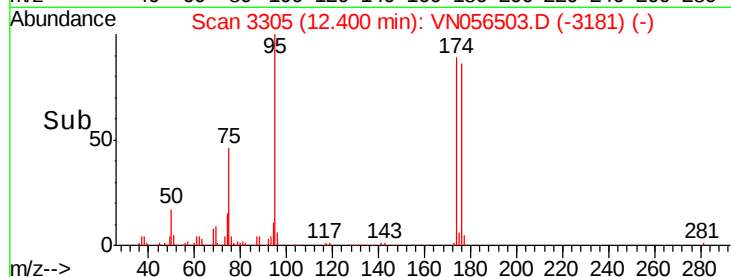
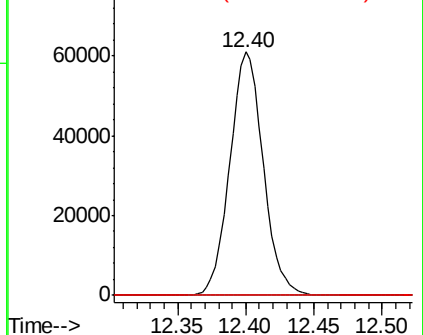
89 0.0 35.0 52.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056375.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN056375.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN056375.D (-3264) (-)



#95

Naphthalene

Concen: 5.249 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056503.D

Acq: 26 Jun 2019 14:01

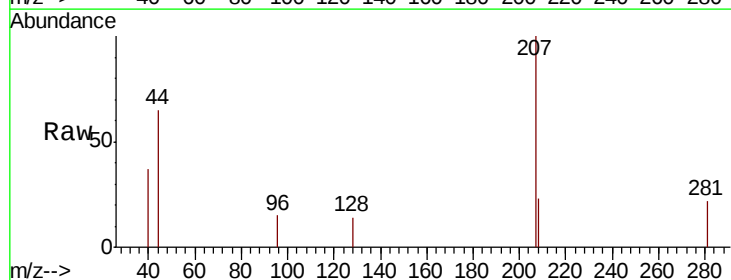
Tgt Ion: 128 Resp: 30

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): VN056375.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN056375.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN056375.D (-4139) (-)

