

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\
 Data File : VN057563.D
 Acq On : 29 Aug 2019 21:18
 Operator : JC/SP
 Sample : K4528-33
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

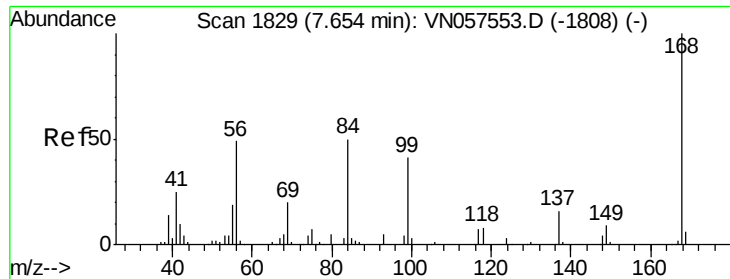
Quant Time: Aug 30 12:09:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 08:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	584700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	944150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	841849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	220653	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	352445	38.33	ug/l	0.00
Spiked Amount			Recovery	=	76.66%	
35) Dibromofluoromethane	7.58	113	283267	34.56	ug/l	0.00
Spiked Amount			Recovery	=	69.12%	
50) Toluene-d8	10.09	98	1170707	39.08	ug/l	0.00
Spiked Amount			Recovery	=	78.16%	
62) 4-Bromofluorobenzene	12.40	95	313390	30.92	ug/l	0.00
Spiked Amount			Recovery	=	61.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.58	56	220	0.272	ug/l #	13
16) Acetone	3.81	43	22838	5.904	ug/l #	89
18) Methyl Acetate	4.32	43	4779	Below Cal	#	89
20) Methylene Chloride	4.53	84	8447	1.179	ug/l #	67
31) Cyclohexane	7.65	56	11409	1.026	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	43615	4.270	ug/l #	52
38) Carbon Tetrachloride	7.65	117	54870	4.594	ug/l #	15
41) Methacrylonitrile	7.16	41	186	1.325	ug/l #	46
43) Isopropyl Acetate	8.16	43	81768	6.474	ug/l #	95
48) Methyl methacrylate	9.18	41	4077	0.683	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	6755	1.001	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	40773	3.297	ug/l #	56
57) 1,3-Dichloropropane	10.76	76	5090	0.409	ug/l #	43
59) 2-Hexanone	10.76	43	73189	15.703	ug/l #	58
71) Bromoform	12.40	173	2595	0.466	ug/l #	1
73) Isopropylbenzene	12.25	105	680	Below Cal		88
74) N-amyl acetate	12.03	43	5272	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.41	83	402	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	171009	41.579	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171009	116.535	ug/l #	8
83) tert-Butylbenzene	13.00	119	636	Below Cal	#	84
93) 1,2,4-Trichlorobenzene	14.92	180	1729	4.305	ug/l	77
95) Naphthalene	15.13	128	3943	0.540	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.29	180	1863	0.747	ug/l #	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

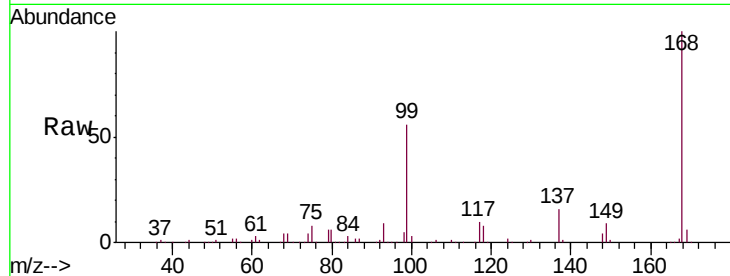
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 584700

Ion Ratio Lower Upper

168 100

99 56.1 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): VN057553.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN057553.D (-1808) (-)

7.65

250000

200000

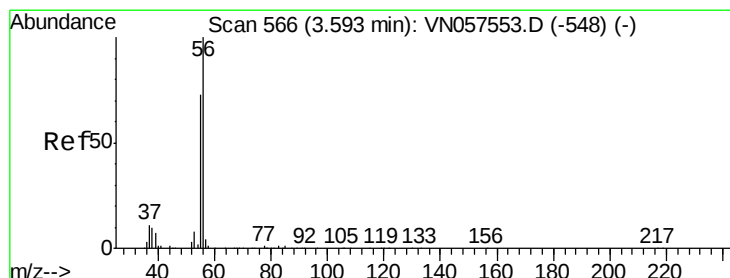
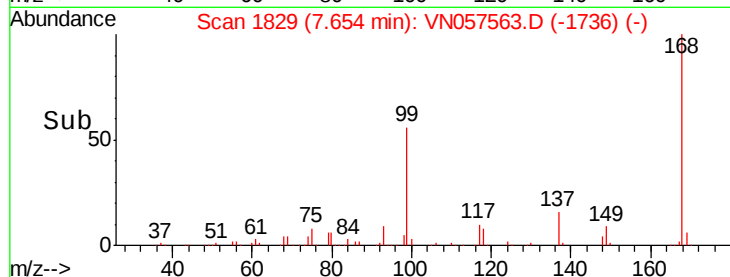
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.272 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.01 min

Lab File: VN057563.D

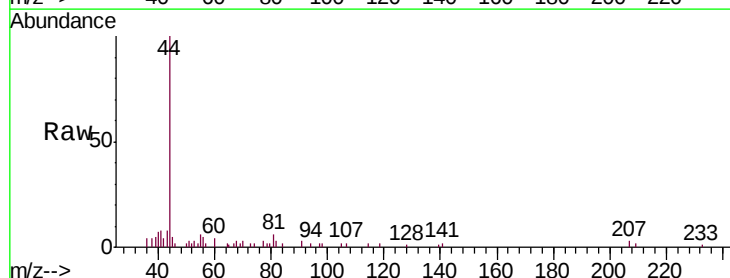
Acq: 29 Aug 2019 21:18

Tgt Ion: 56 Resp: 220

Ion Ratio Lower Upper

56 100

55 0.0 59.0 88.4#



Abundance Ion 56.00 (55.70 to 56.70): VN057553.D (-548) (-)

Ion 55.00 (54.70 to 55.70): VN057553.D (-548) (-)

3.58

1000

800

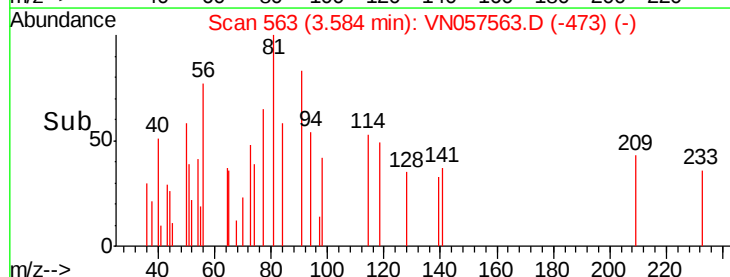
600

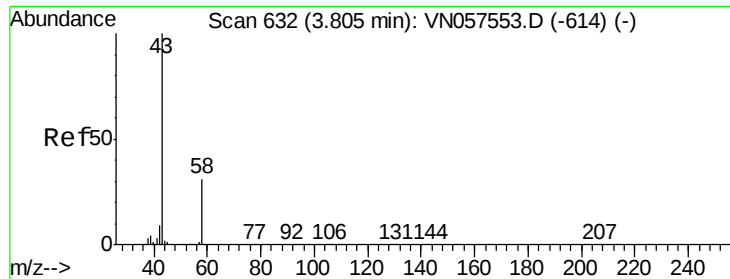
400

200

0

Time-->

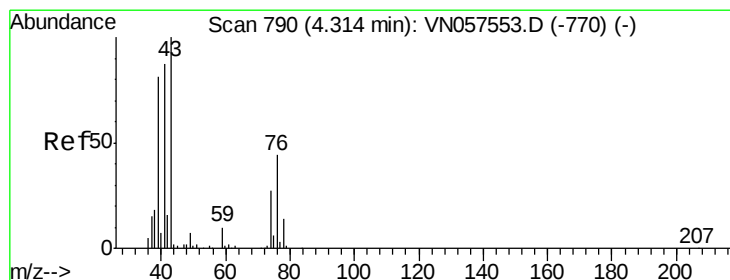
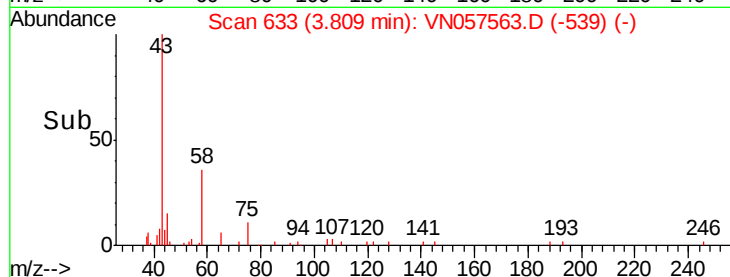
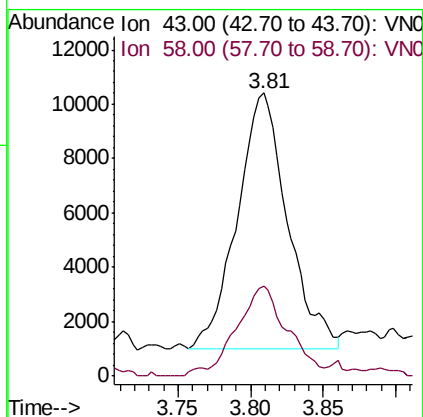
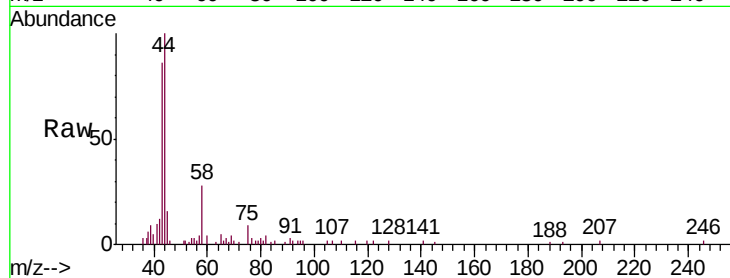




#16
Acetone
Concen: 5.904 ug/l
RT: 3.81 min Scan# 633
Delta R.T. 0.00 min
Lab File: VN057563.D
Acq: 29 Aug 2019 21:18

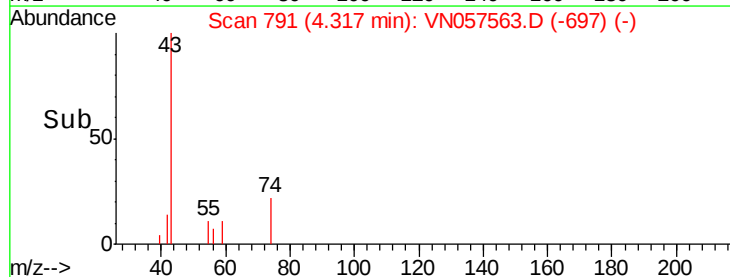
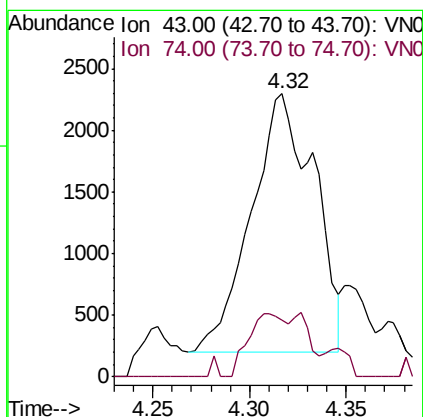
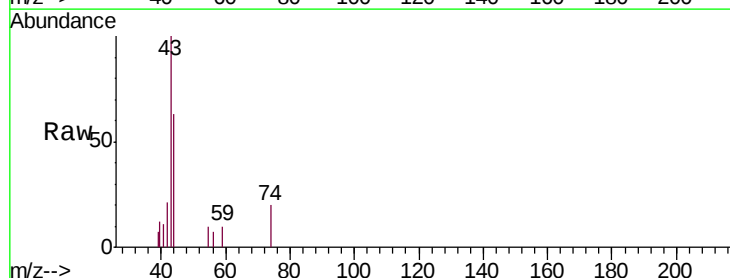
Instrument :
MSVOA_N
ClientSampleId :

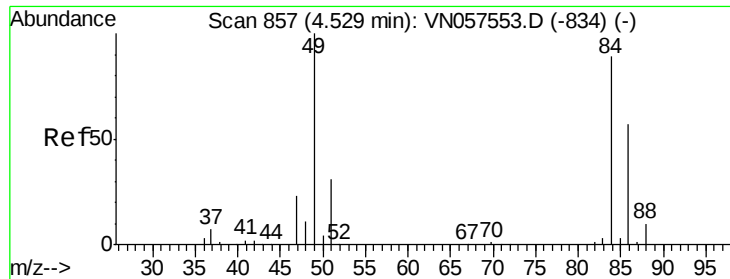
Tot Ion: 43 Resp: 22838
Ion Ratio Lower Upper
43 100
58 33.5 22.1 33.1#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN057563.D
Acq: 29 Aug 2019 21:18

Tgt Ion: 43 Resp: 4779
Ion Ratio Lower Upper
43 100
74 14.9 15.9 23.9#





#20

Methvlene Chloride

Concen: 1.179 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 8447

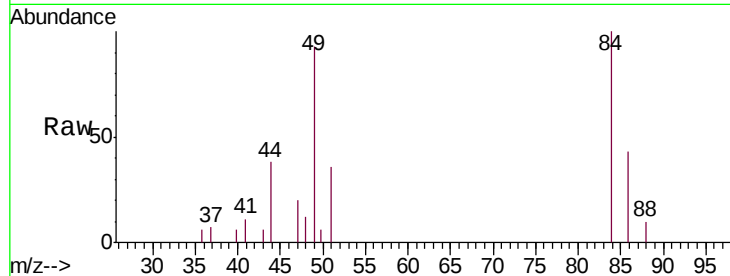
Ion Ratio Lower Upper

84 100

49 93.1 117.0 175.4#

51 36.2 35.5 53.3

86 42.9 49.8 74.8#

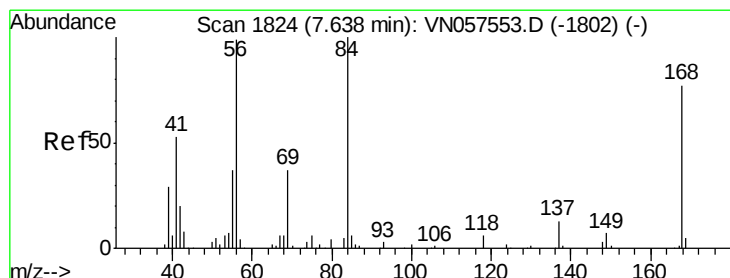
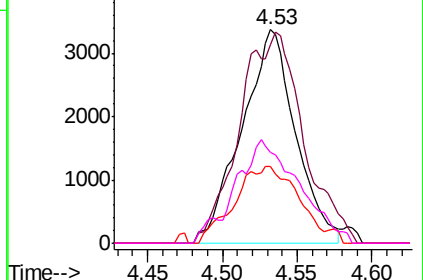
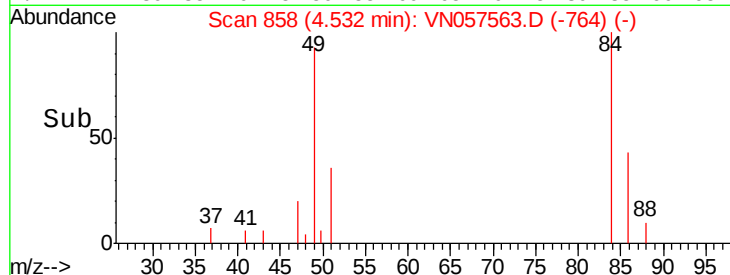


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#31

Cyclohexane

Concen: 1.026 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

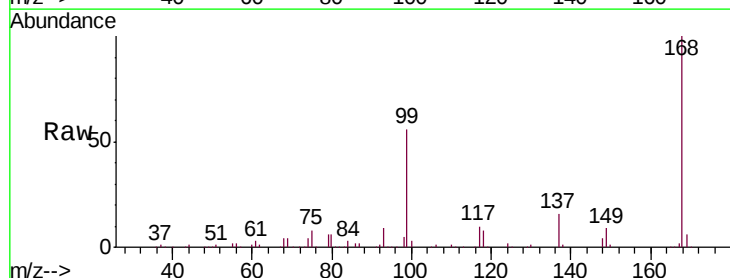
Tgt Ion: 56 Resp: 11409

Ion Ratio Lower Upper

56 100

69 189.0 25.0 37.6#

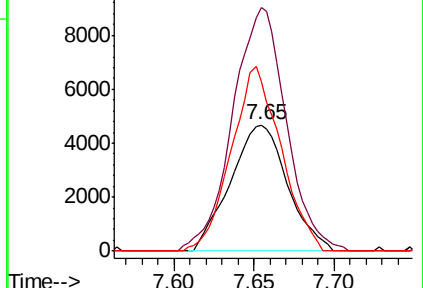
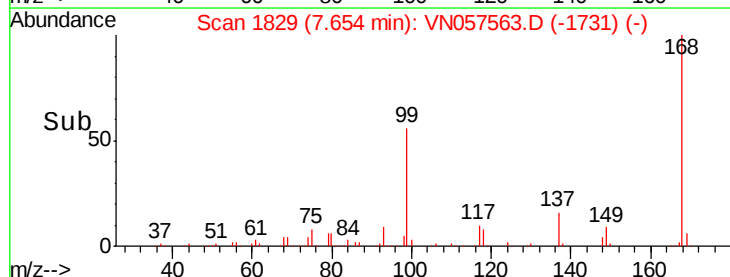
84 134.7 62.5 93.7#

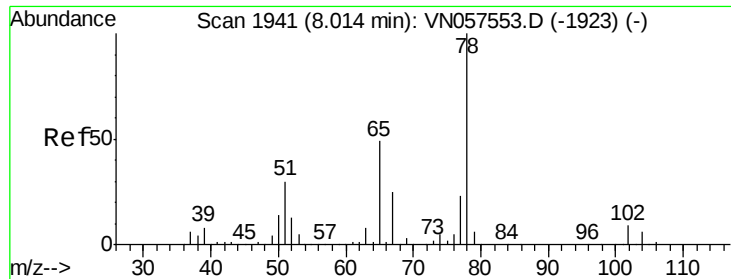


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

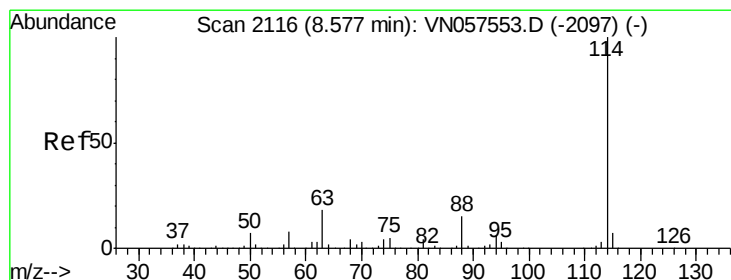
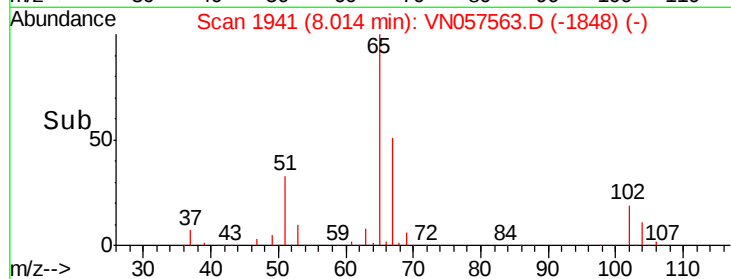
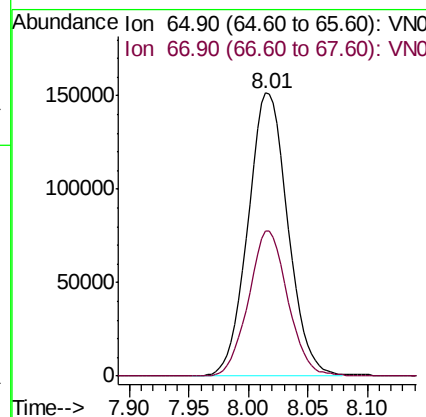
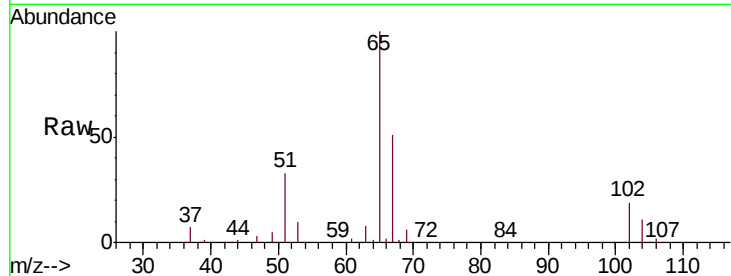




#33
 1,2-Dichloroethane-d4
 Concen: 38.332 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

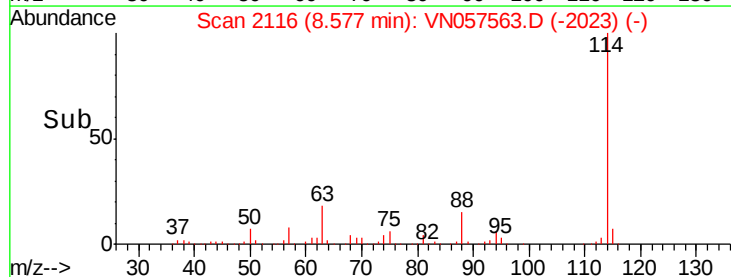
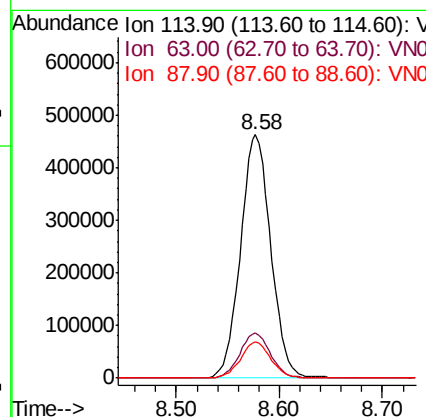
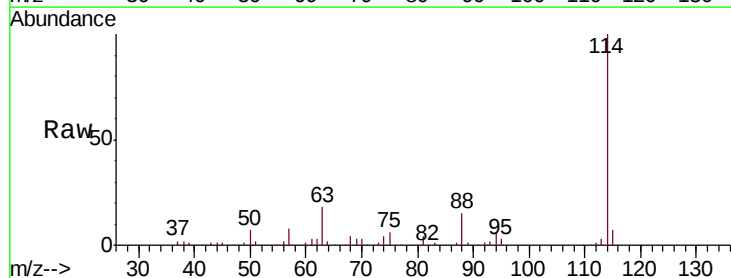
Instrument :
 MSVOA_N
 ClientSampleId :

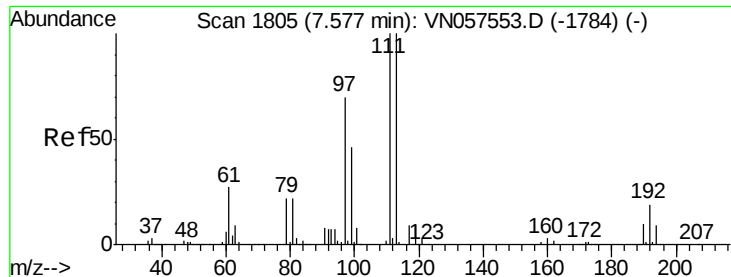
Tot Ion: 65 Resp: 352445
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

Tgt Ion: 114 Resp: 944150
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 50.2
 88 14.7 0.0 34.6

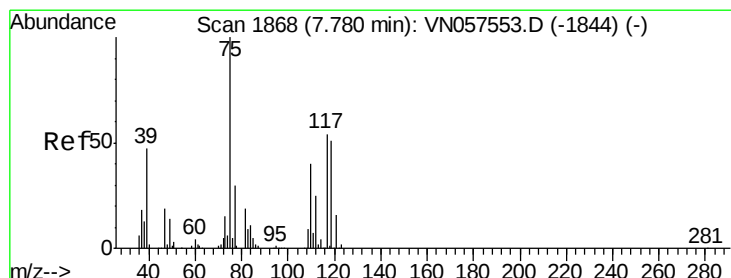
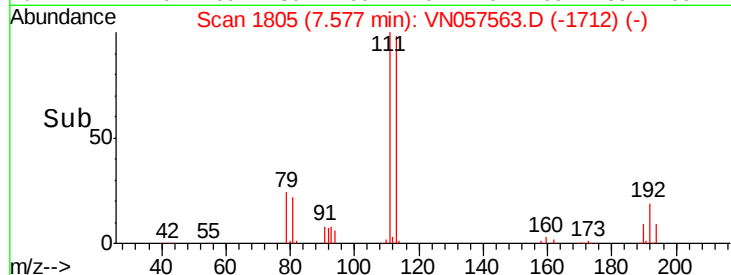
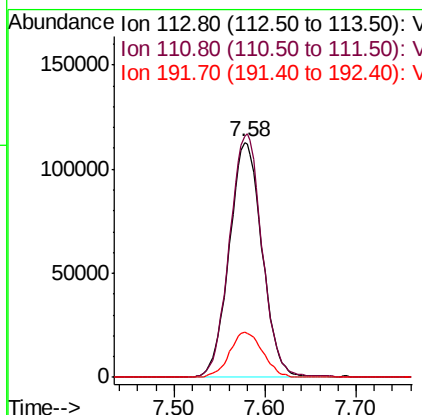
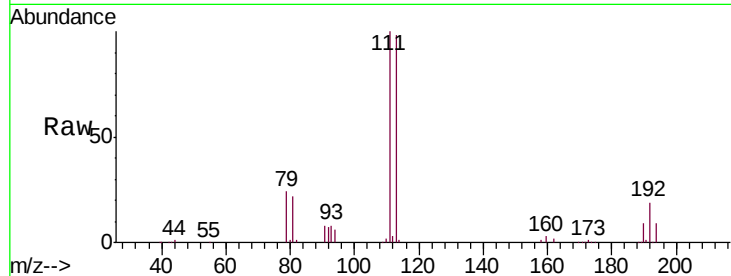




#35
 Dibromofluoromethane
 Concen: 34.563 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

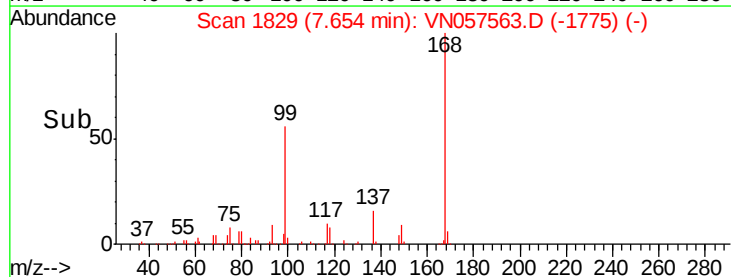
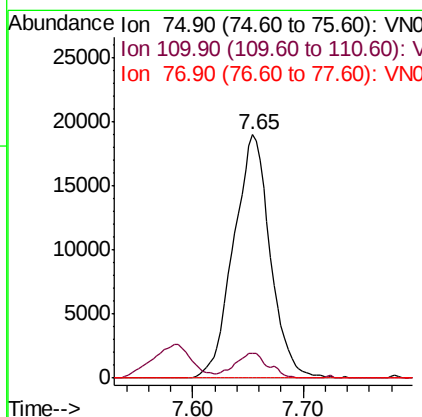
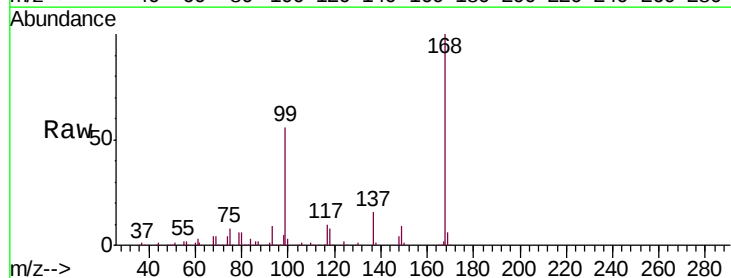
Instrument :
 MSVOA_N
 ClientSampleId :

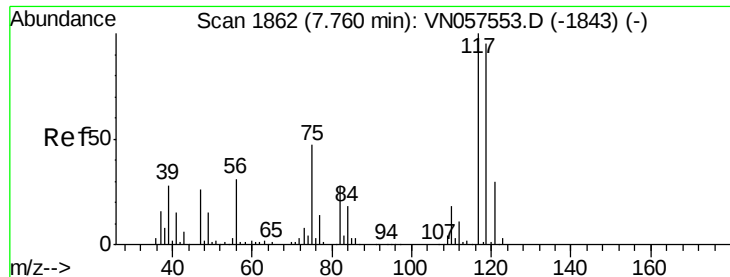
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.8	125.6
192	19.3	13.5	20.3



#36
 1,1-Dichloropropene
 Concen: 4.270 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.1	48.3#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.594 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

ClientSampleId :

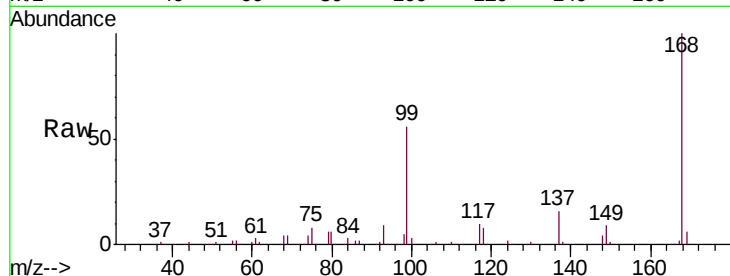
Tot Ion:117 Resp: 54870

Ion Ratio Lower Upper

117 100

119 4.1 76.2 114.4#

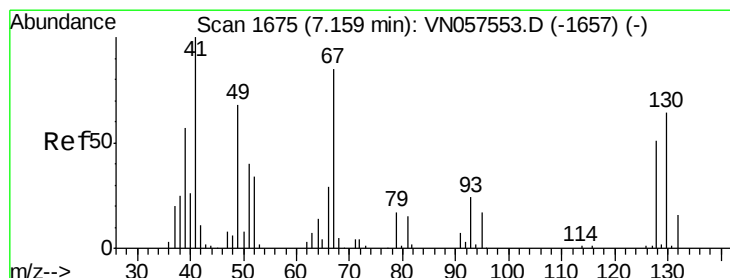
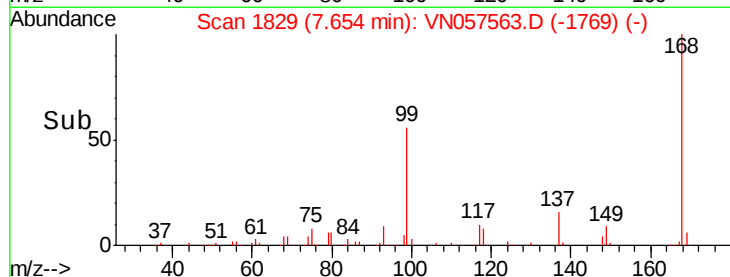
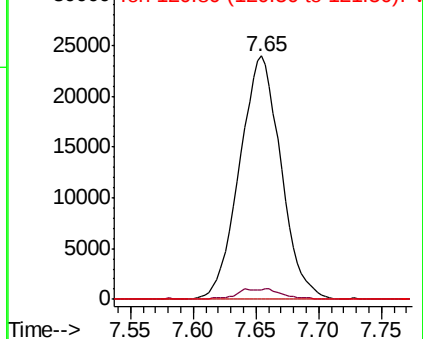
121 0.0 23.8 35.6#



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: 1.325 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Tgt Ion: 41 Resp: 186

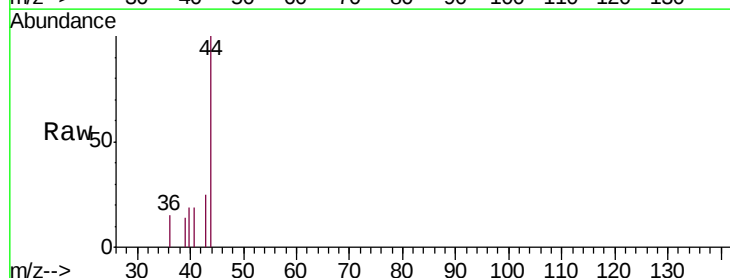
Ion Ratio Lower Upper

41 100

39 63.4 53.6 80.4

67 0.0 65.4 98.2#

52 0.0 29.8 44.6#

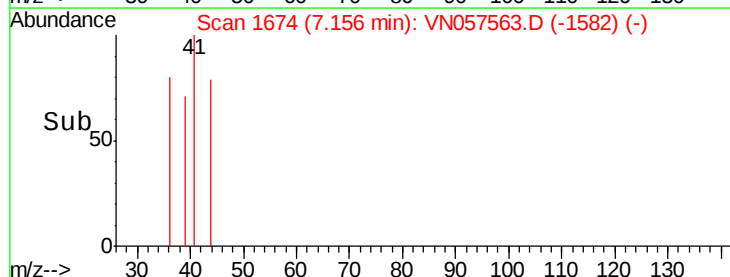
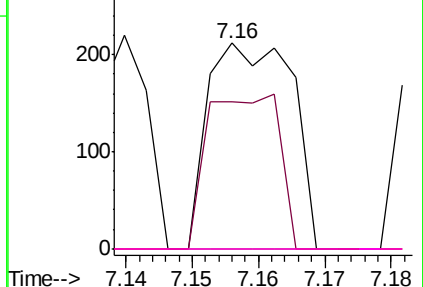


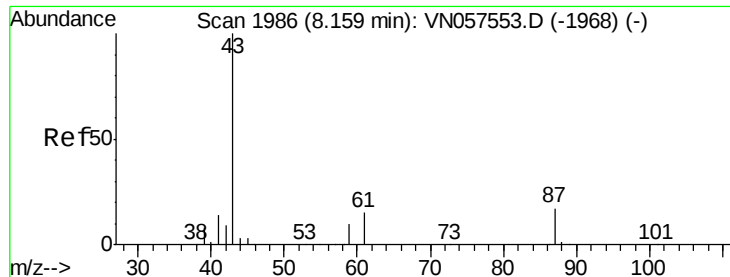
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 6.474 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

ClientSampled :

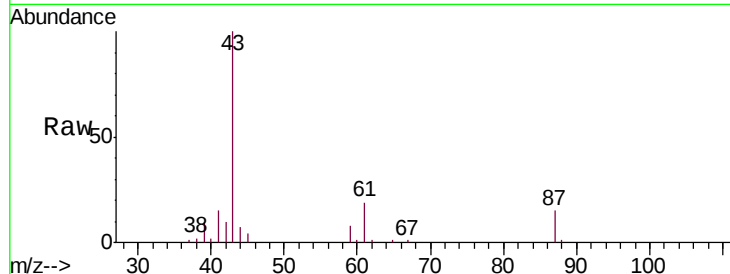
Tot Ion: 43 Resp: 81768

Ion Ratio Lower Upper

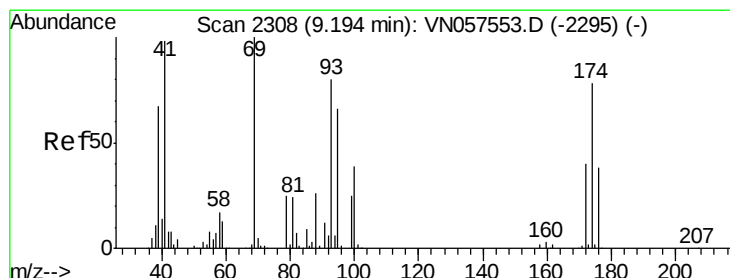
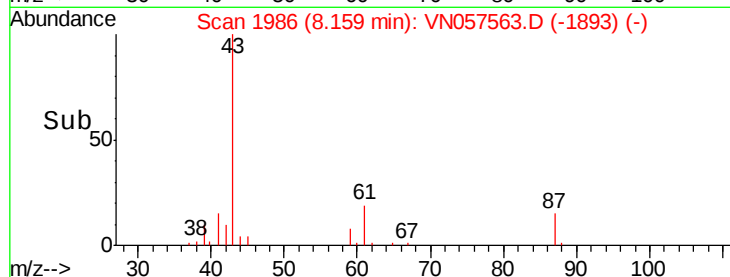
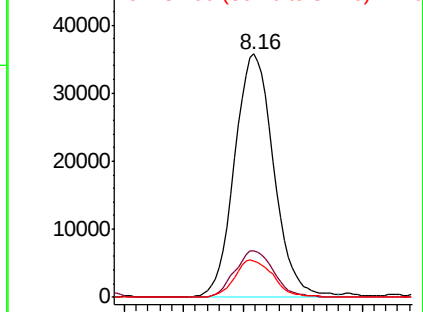
43 100

61 19.0 14.5 21.7

87 14.9 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 0.683 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

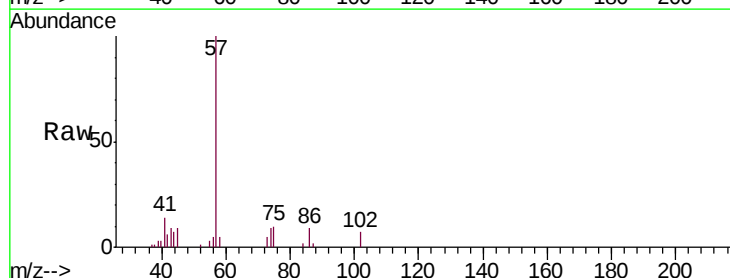
Tgt Ion: 41 Resp: 4077

Ion Ratio Lower Upper

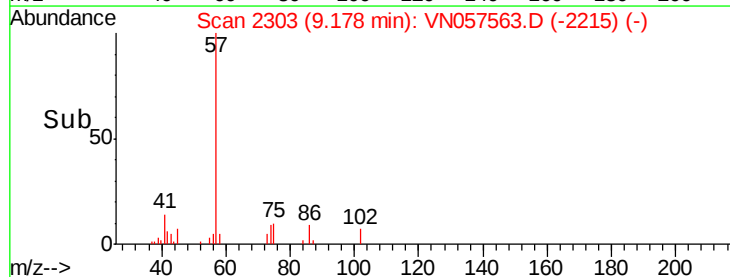
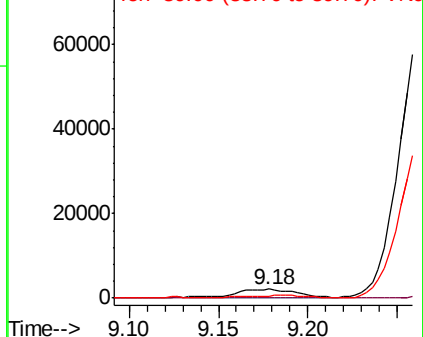
41 100

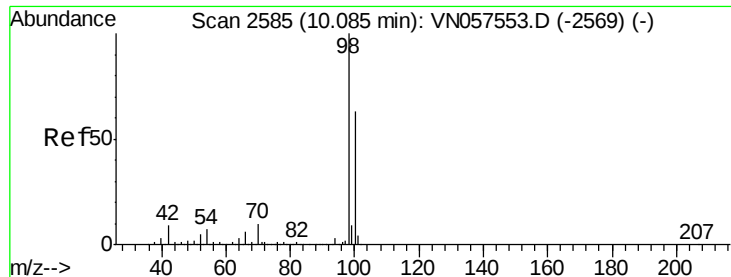
69 1.7 59.3 88.9#

39 0.0 50.6 75.8#



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

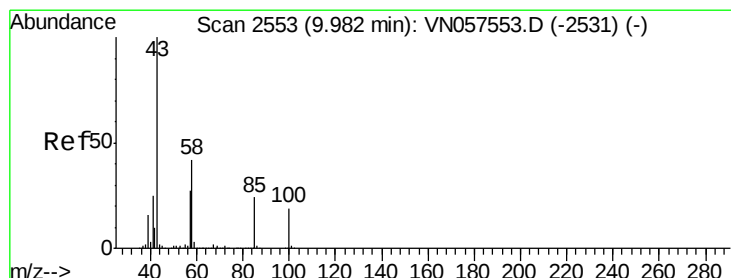
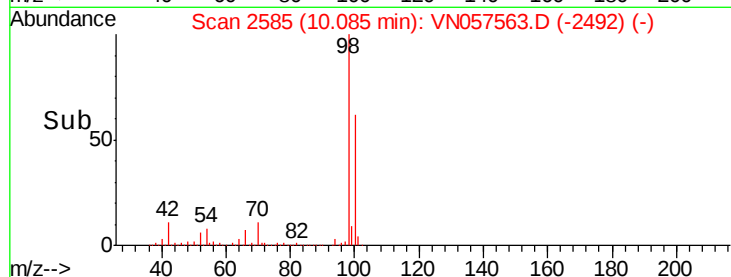
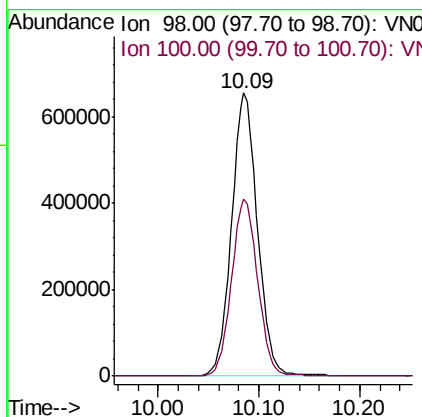
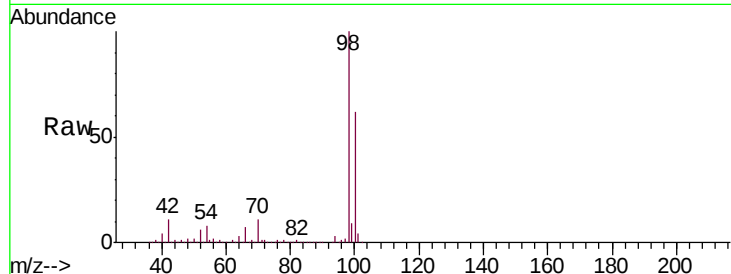




#50
Toluene-d8
Concen: 39.084 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057563.D
Acq: 29 Aug 2019 21:18

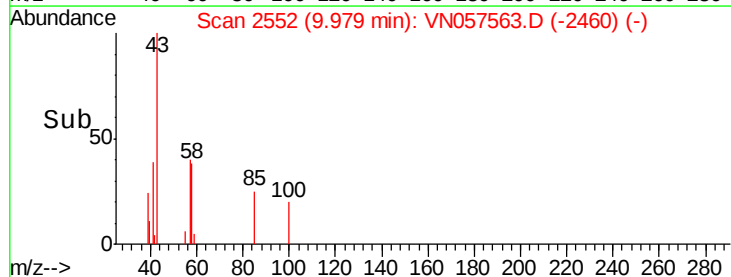
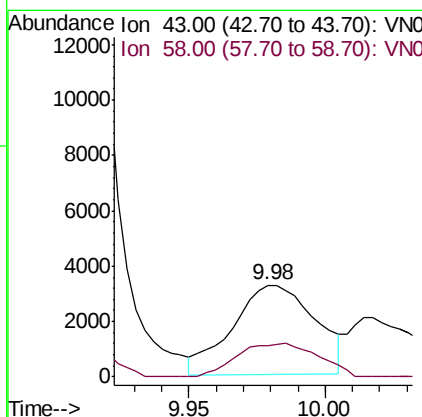
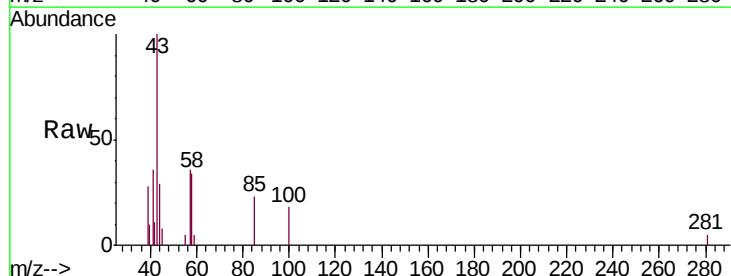
Instrument :
MSVOA_N
ClientSampleId :

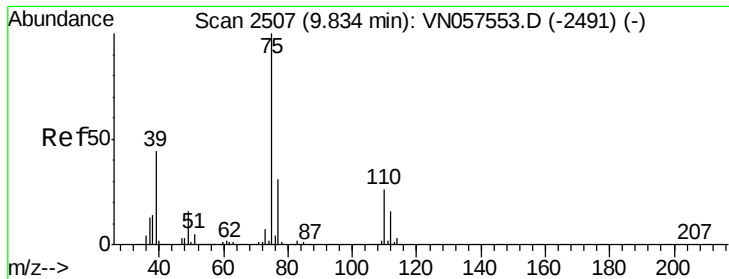
Tot Ion: 98 Resp: 1170707
Ion Ratio Lower Upper
98 100
100 63.4 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 1.001 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.00 min
Lab File: VN057563.D
Acq: 29 Aug 2019 21:18

Tgt Ion: 43 Resp: 6755
Ion Ratio Lower Upper
43 100
58 37.4 27.9 41.9



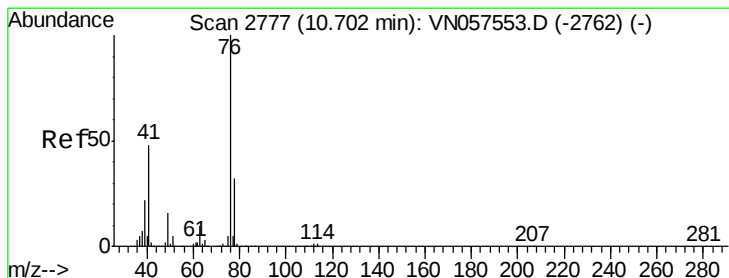
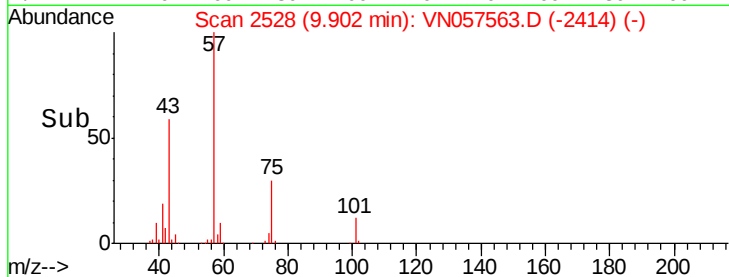
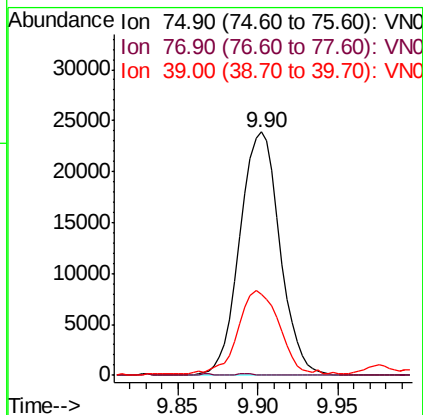
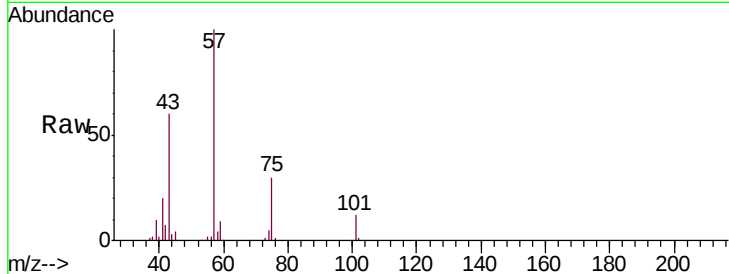


#54

cis-1,3-Dichloropropene
 Concen: 3.297 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

Instrument :
 MSVOA_N
 ClientSampled :

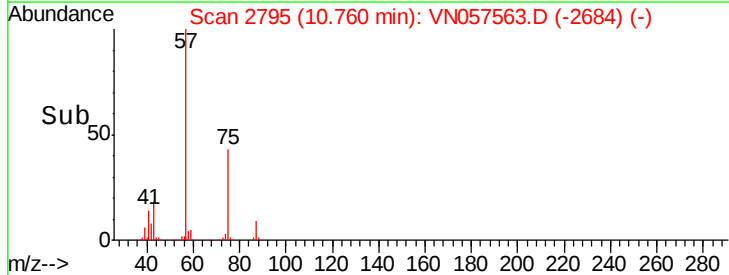
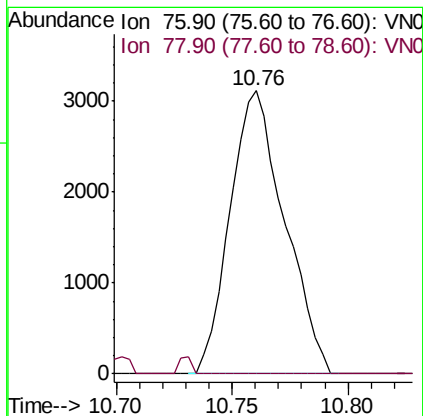
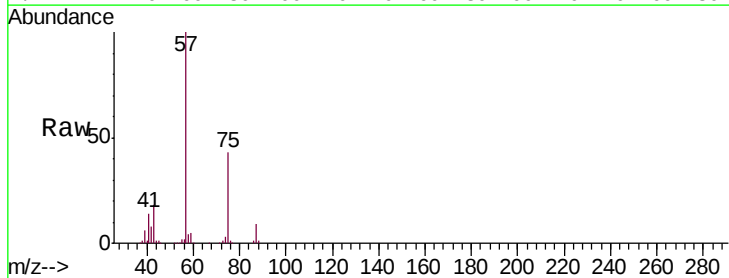
Tot Ion: 75 Resp: 40773
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 32.4 49.2 73.8#

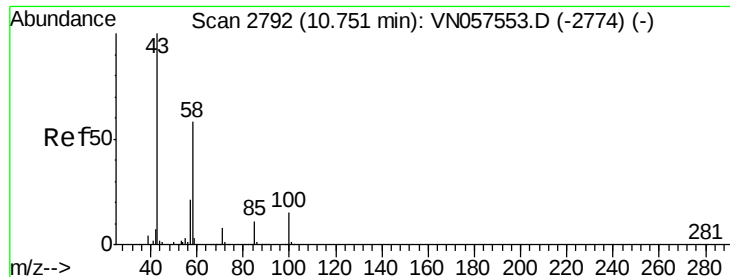


#57

1,3-Dichloropropane
 Concen: 0.409 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

Tgt Ion: 76 Resp: 5090
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#

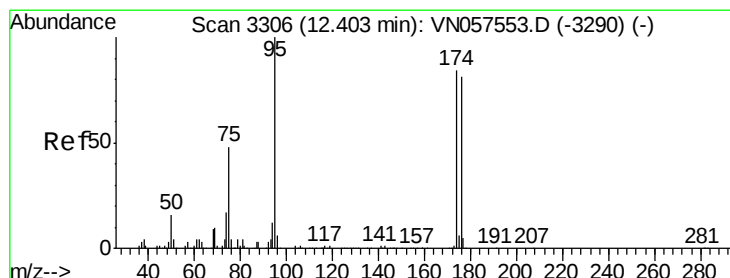
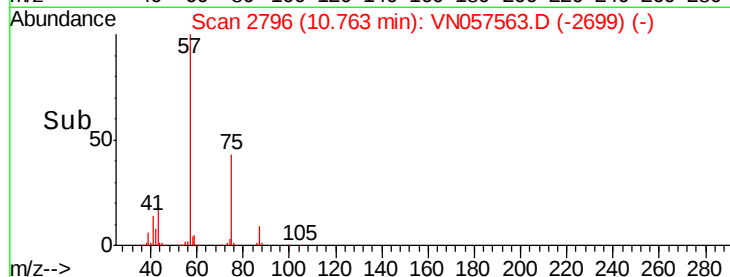
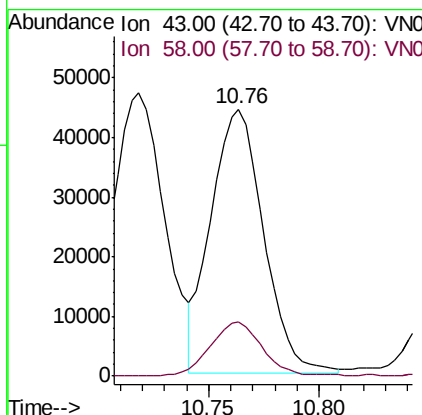
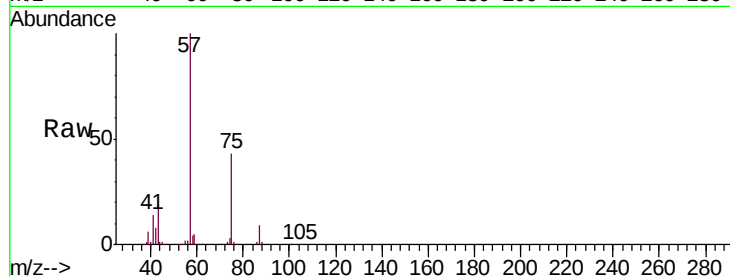




#59
2-Hexanone
Concen: 15.703 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057563.D
Acq: 29 Aug 2019 21:18

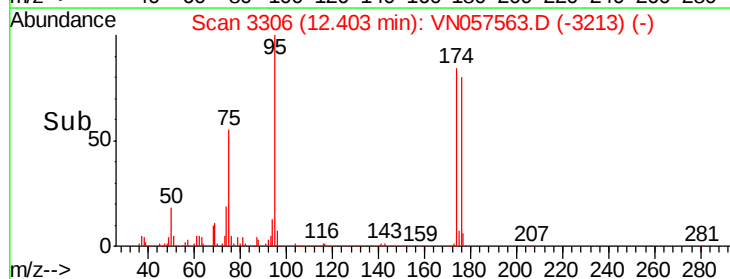
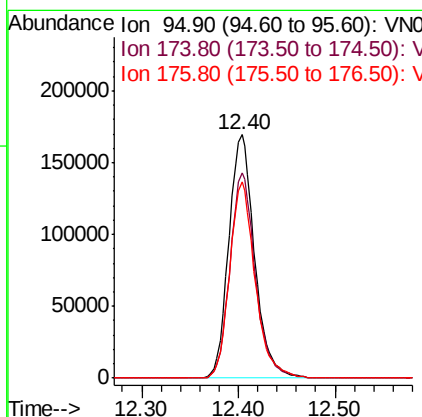
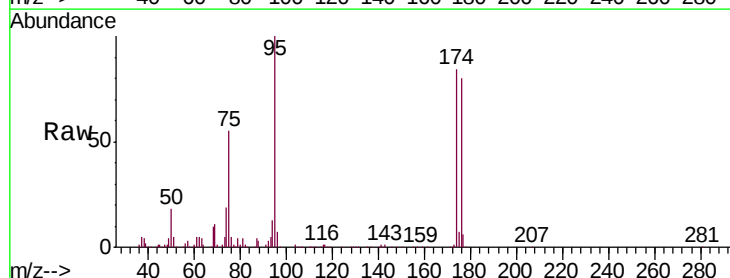
Instrument :
MSVOA_N
ClientSampled :

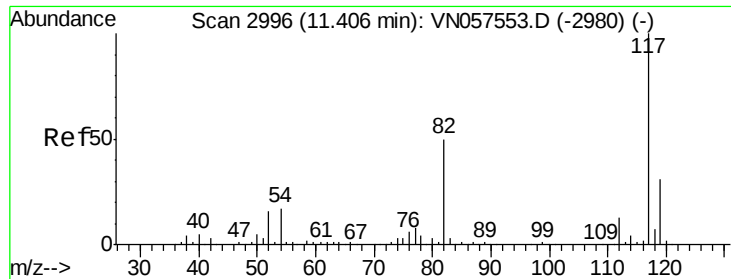
Tot Ion: 43 Resp: 73189
Ion Ratio Lower Upper
43 100
58 20.4 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 30.919 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057563.D
Acq: 29 Aug 2019 21:18

Tgt Ion: 95 Resp: 313390
Ion Ratio Lower Upper
95 100
174 82.9 0.0 133.0
176 79.7 0.0 130.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

ClientSampled :

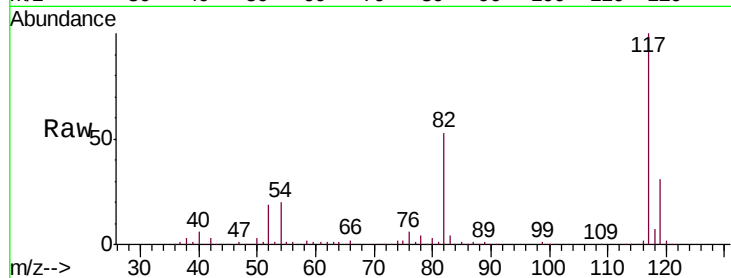
Tot Ion:117 Resp: 841849

Ion Ratio Lower Upper

117 100

82 52.7 50.6 75.8

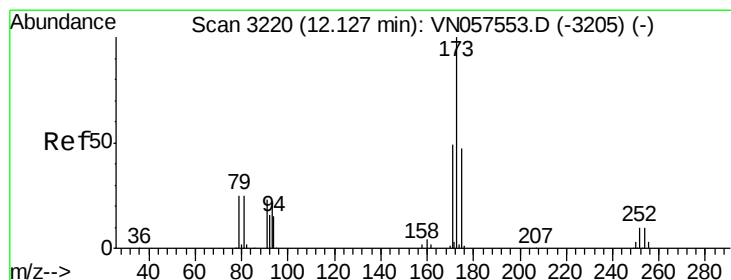
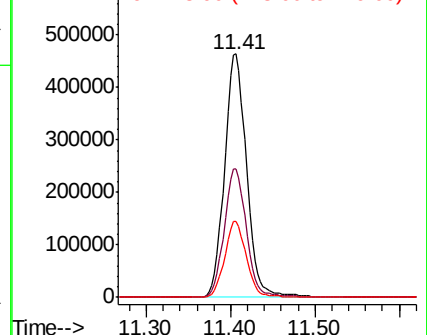
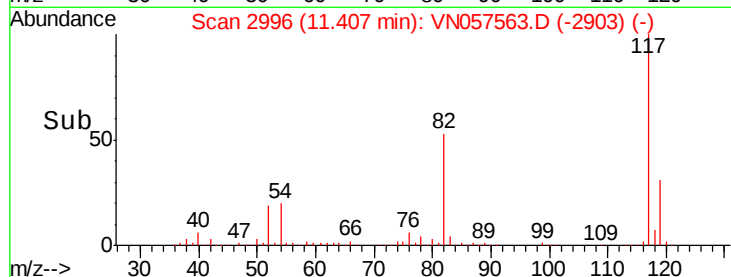
119 31.1 24.6 36.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.466 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

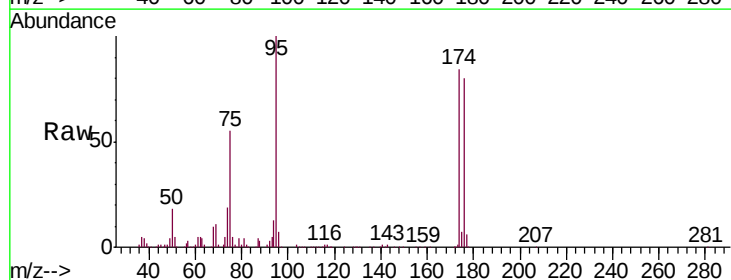
Tgt Ion:173 Resp: 2595

Ion Ratio Lower Upper

173 100

175 617.0 23.9 71.8#

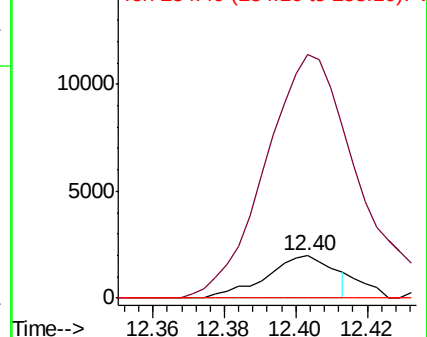
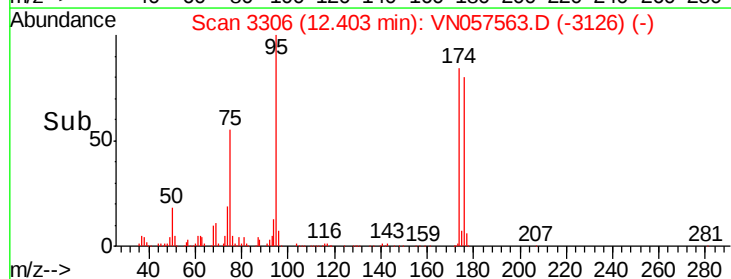
254 0.0 0.1 0.1#

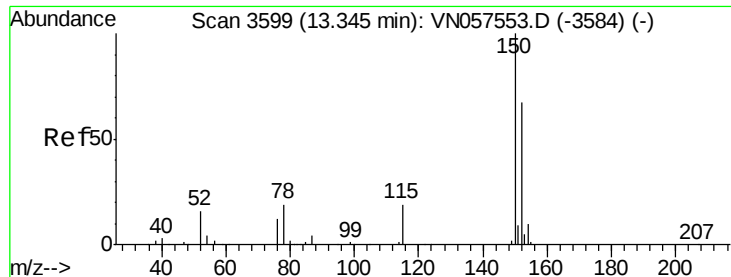


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

ClientSampleId :

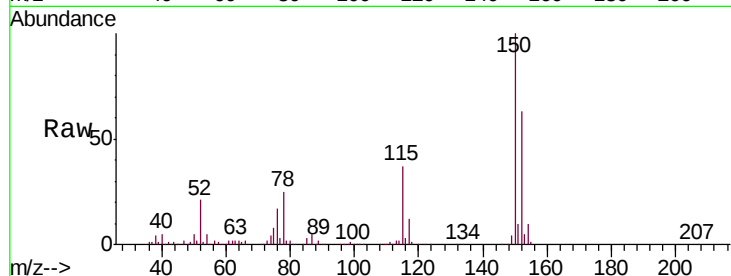
Tot Ion:152 Resp: 220653

Ion Ratio Lower Upper

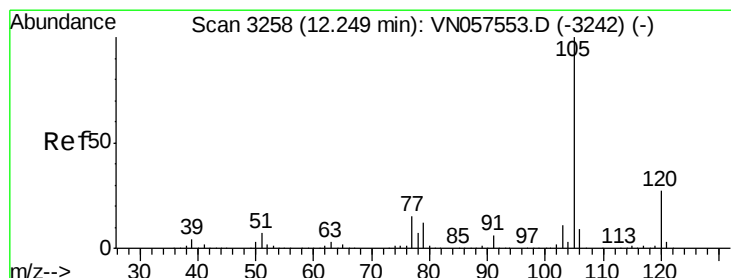
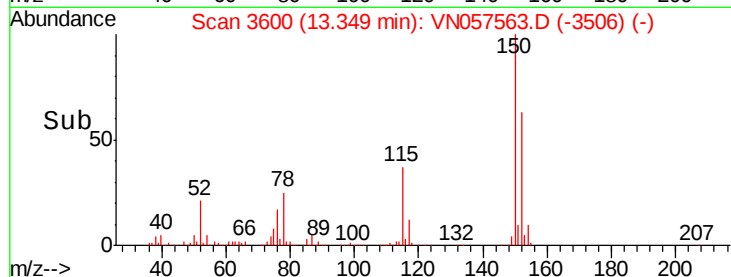
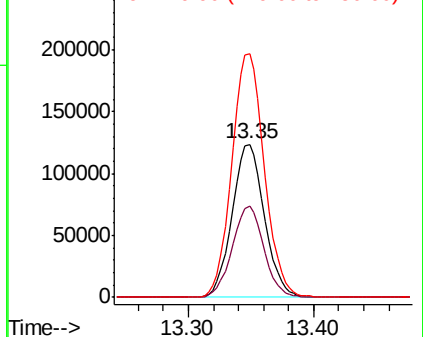
152 100

115 58.2 32.0 96.0

150 160.3 0.0 346.6



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: VN057563.D

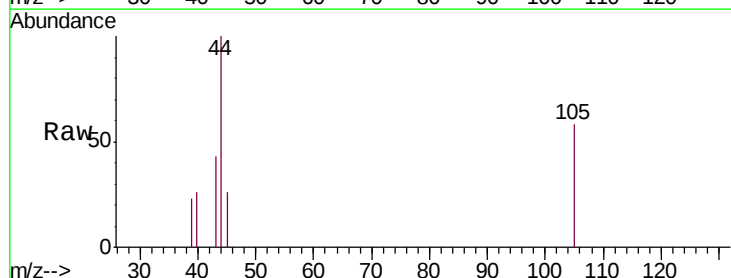
Acq: 29 Aug 2019 21:18

Tgt Ion:105 Resp: 680

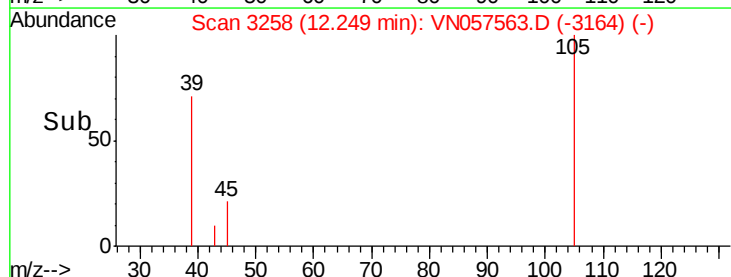
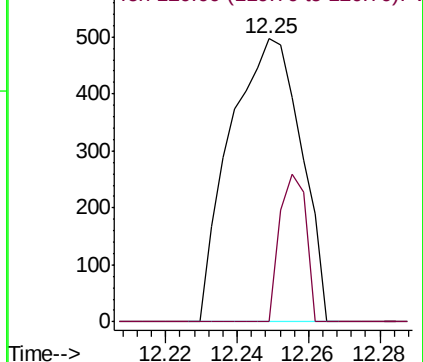
Ion Ratio Lower Upper

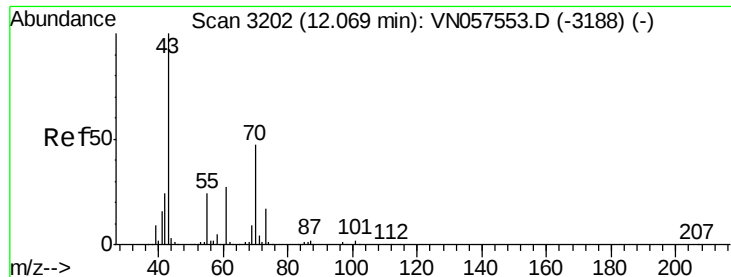
105 100

120 19.4 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 5272

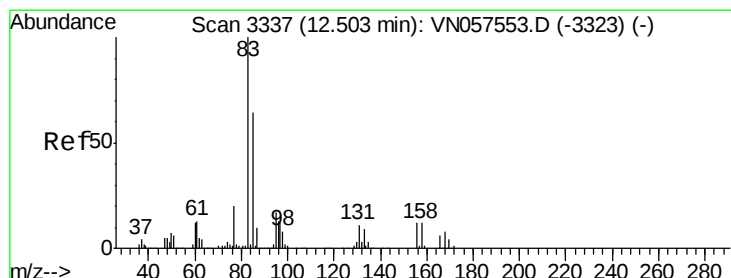
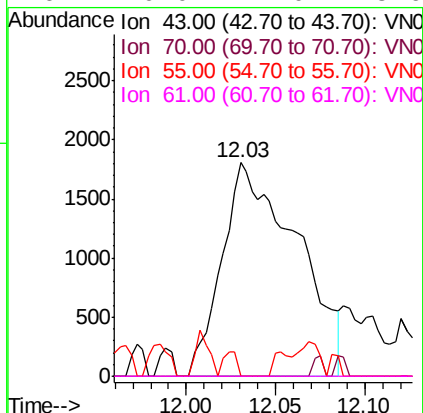
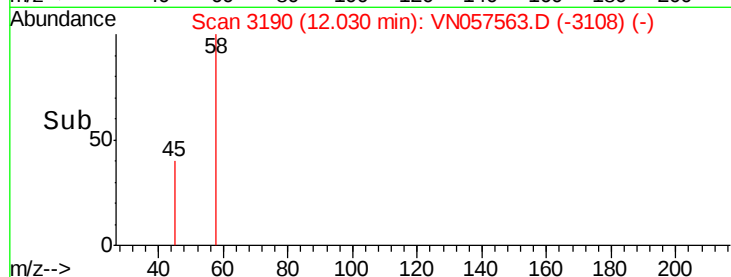
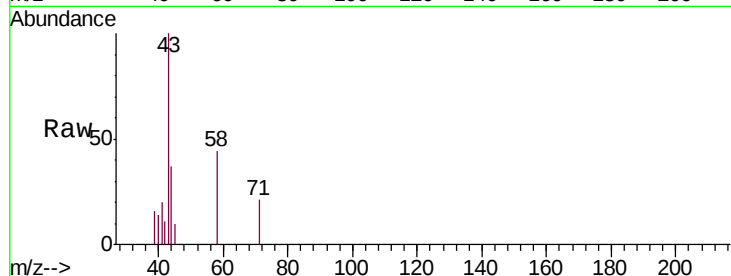
Ion Ratio Lower Upper

43 100

70 0.0 27.8 41.6#

55 2.1 17.0 25.4#

61 0.0 17.0 25.6#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

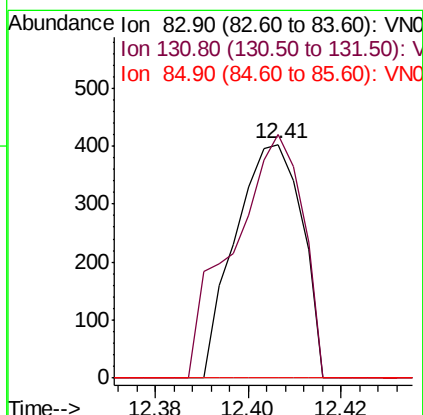
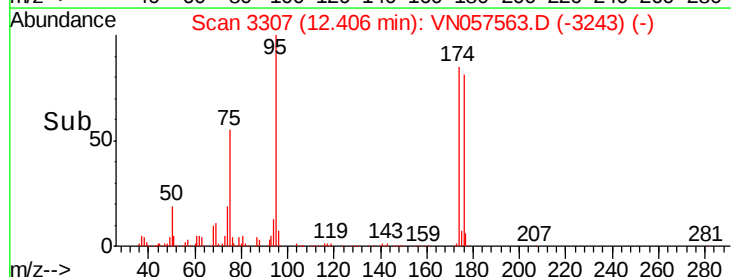
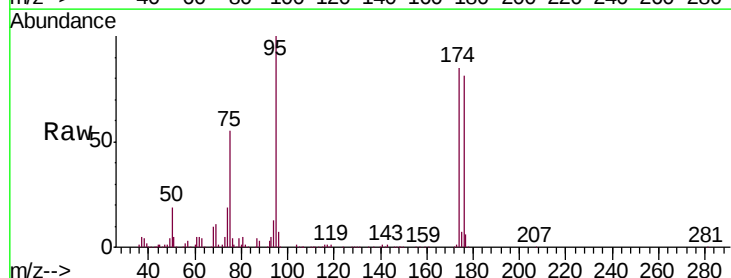
Tgt Ion: 83 Resp: 402

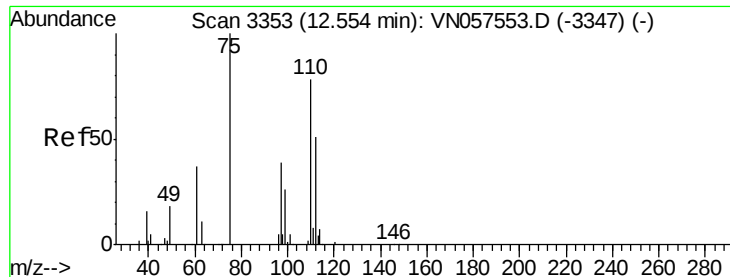
Ion Ratio Lower Upper

83 100

131 109.0 4.3 13.1#

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 41.579 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

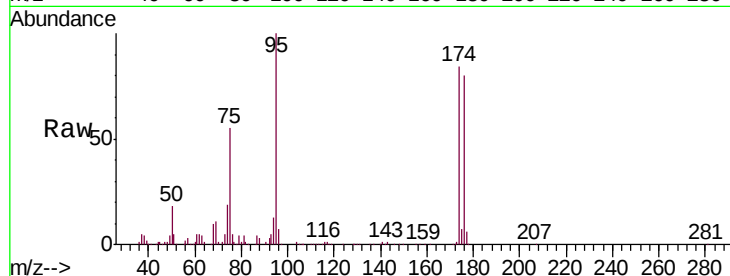
ClientSampleId :

Tot Ion: 75 Resp: 171009

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

100000

80000

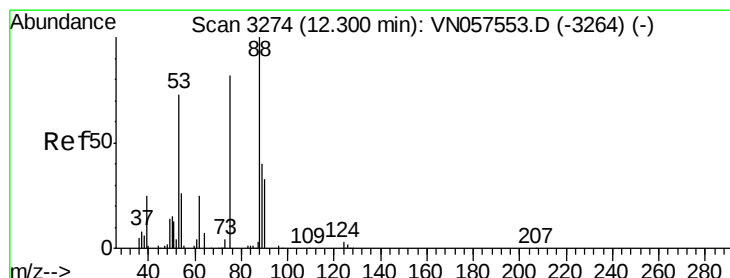
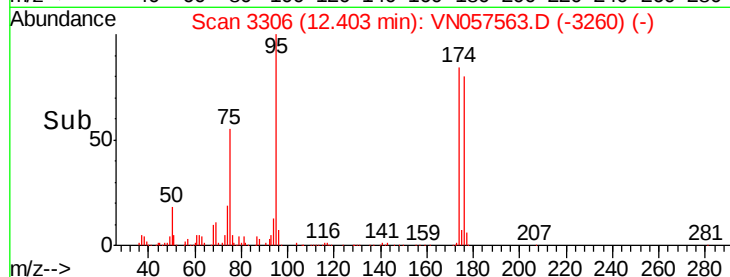
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 116.535 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

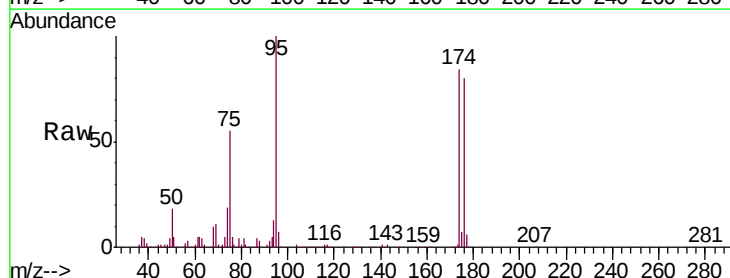
Tgt Ion: 75 Resp: 171009

Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

89 0.0 35.8 53.8#



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

12.40

120000

100000

80000

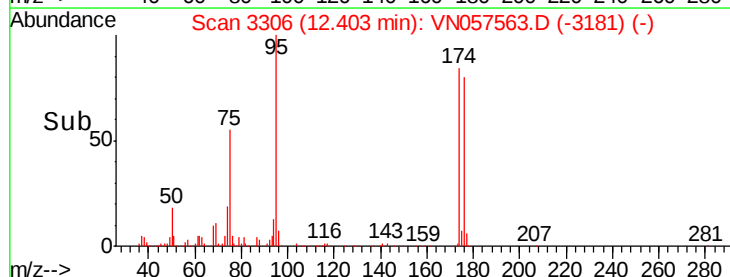
60000

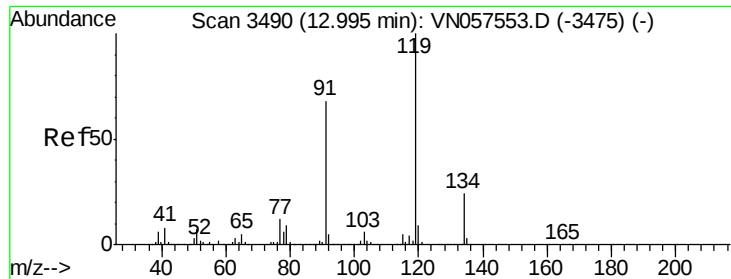
40000

20000

0

Time--> 12.30 12.40 12.50

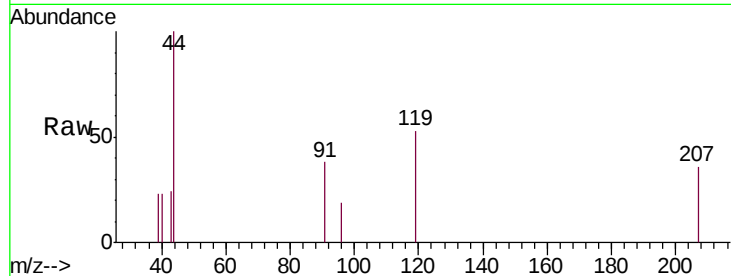




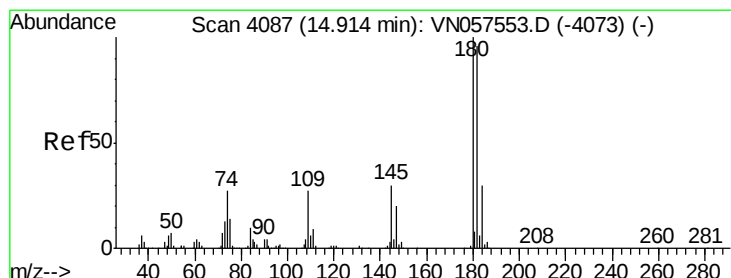
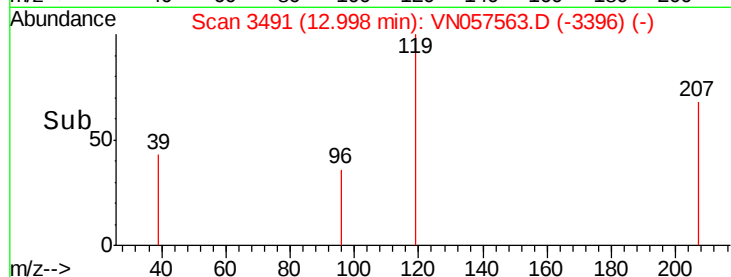
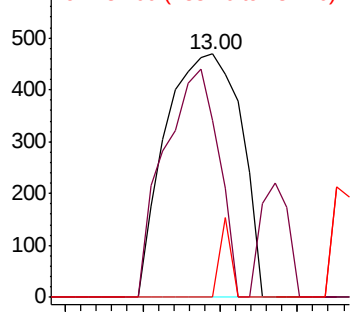
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:119 Resp: 636
 Ion Ratio Lower Upper
 119 100
 91 67.5 37.0 111.0
 134 4.7 12.2 36.6#

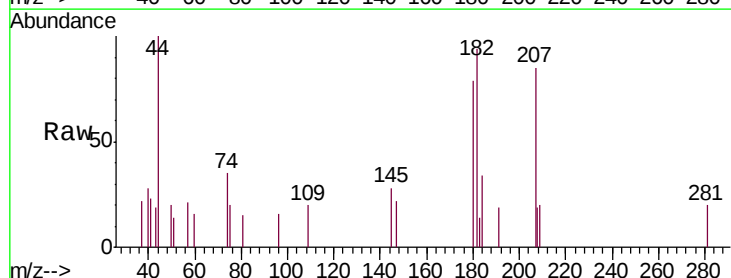


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

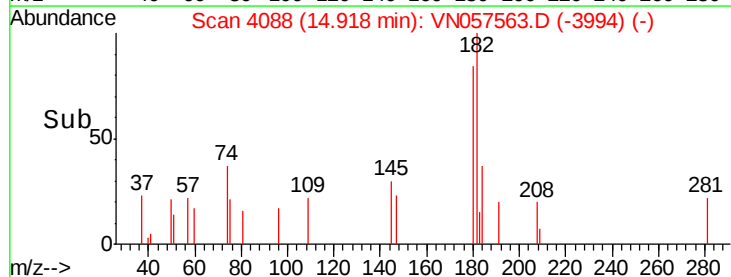
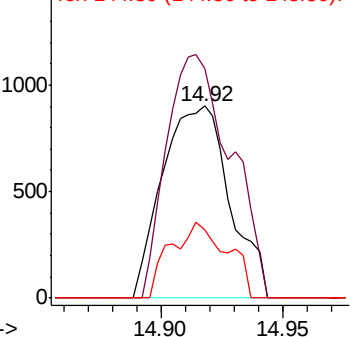


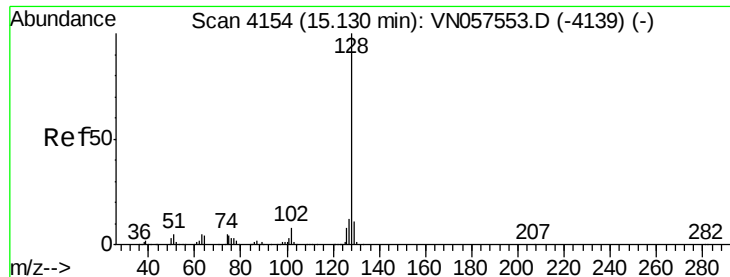
#93
 1,2,4-Trichlorobenzene
 Concen: 4.305 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN057563.D
 Acq: 29 Aug 2019 21:18

Tgt Ion:180 Resp: 1729
 Ion Ratio Lower Upper
 180 100
 182 121.2 46.7 140.1
 145 33.4 15.6 46.8



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.540 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

Instrument :

MSVOA_N

ClientSampleId :

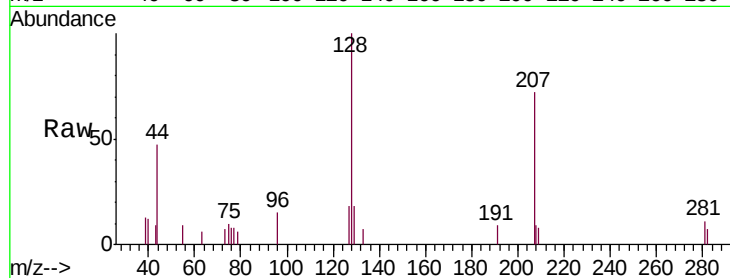
Tot Ion:128 Resp: 3943

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

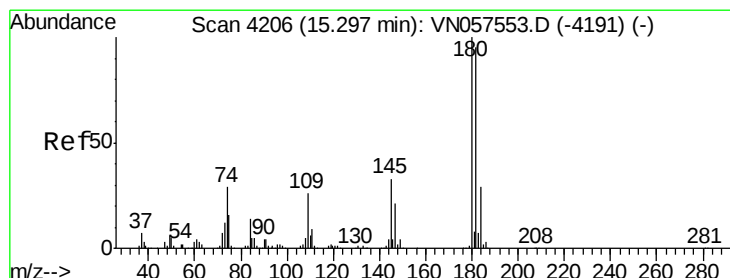
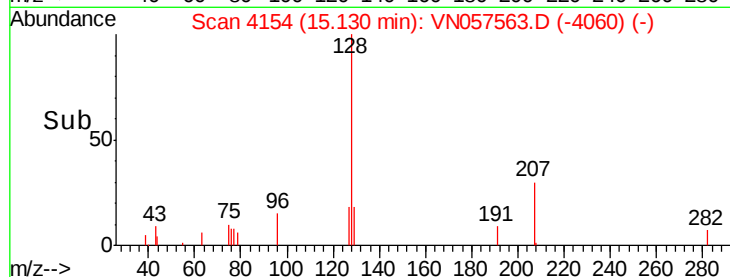
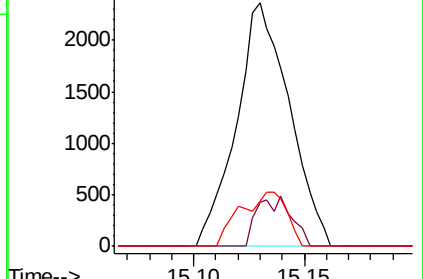
129 19.4 8.6 13.0#



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: 0.747 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN057563.D

Acq: 29 Aug 2019 21:18

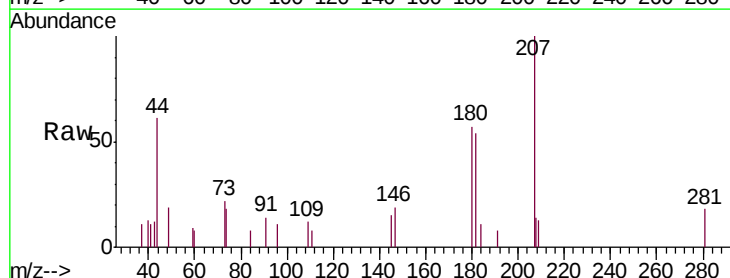
Tgt Ion:180 Resp: 1863

Ion Ratio Lower Upper

180 100

182 96.8 46.7 140.1

145 16.4 16.8 50.3#



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

